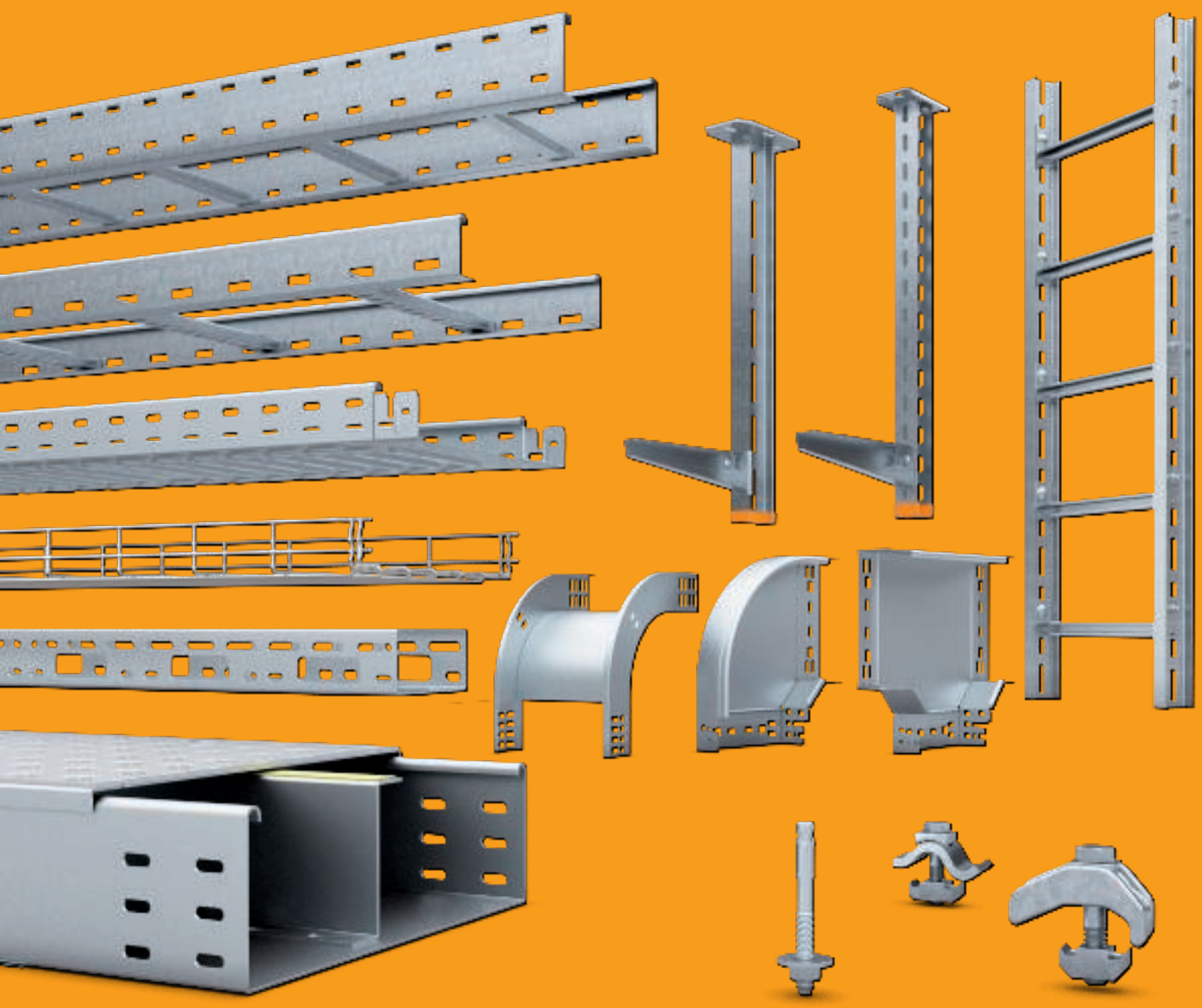
Cable support systems



KTS | Catalogue 2016

OBO BETTERMANN



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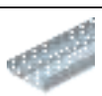
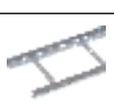
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OBO KTS seminars: First-hand knowledge
With a comprehensive range of training courses and seminars on cable support systems, OBO is able to provide users with first-hand support. Alongside the basic theoretical principles, the programme also deals with practical implementation in everyday applications. Special calculation and application examples round off the comprehensive programme of knowledge transfer.

Invitations to tender, product information and data sheets
We can make life easier for you, with our comprehensive selection of materials designed for practical applications, which provide you with effective support with the planning and calculation of a project. These include:
- Invitations to tender
- Information sheets
- Data sheets

Invite tenders of the highest level for lightening protection/earthing: OBO manufactures according to RAL GZ642-5 and is committed to adhering to the RAL guidelines. Lightening protection and earthing products can be used for tenders according to RAL.

These documents are continually updated and can be downloaded at no charge at any time from the Internet download area at www.obo-bettermann.com.

Invitations to tender on the Internet at www.ausschreiben.de
More than 10,000 entries from the KTS, BSS, VBS, TBS, LFS, EGS and UFS ranges can be called up free of charge. Regular updates and extensions mean that you always have a comprehensive overview of the OBO products. All the current file formats (PDF, DOC, GAEB, HTML, TEXT, XML, ÖNORM) are available.
www.ausschreiben.de

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The new generation is there: OBO Construct Professional and OBO Construct Web



We have reinvented our Construct planning software: We have bundled all the electronic planning aids under the name OBO Construct.

Two versions

There are now two versions of OBO Construct: Construct Web and Construct Professional. They are now aligned to the different requirements of our customers and offer the following scope of service:

OBO Construct Professional

The completely new tool for professional users. The new multilingual AutoCAD plug-in is available in various languages and offers a wealth of benefits:

- Redesigned user dialogues
- Simplified operation
- Improved component depiction
- Individual adjustment of object display
- Completely new system (runs on 64-bit systems)
- Mass determination with additional materials
- Output of the mass determination in various formats (Excel, PDF, Text)
- Simple updates
- Importable and editable invitations to tender

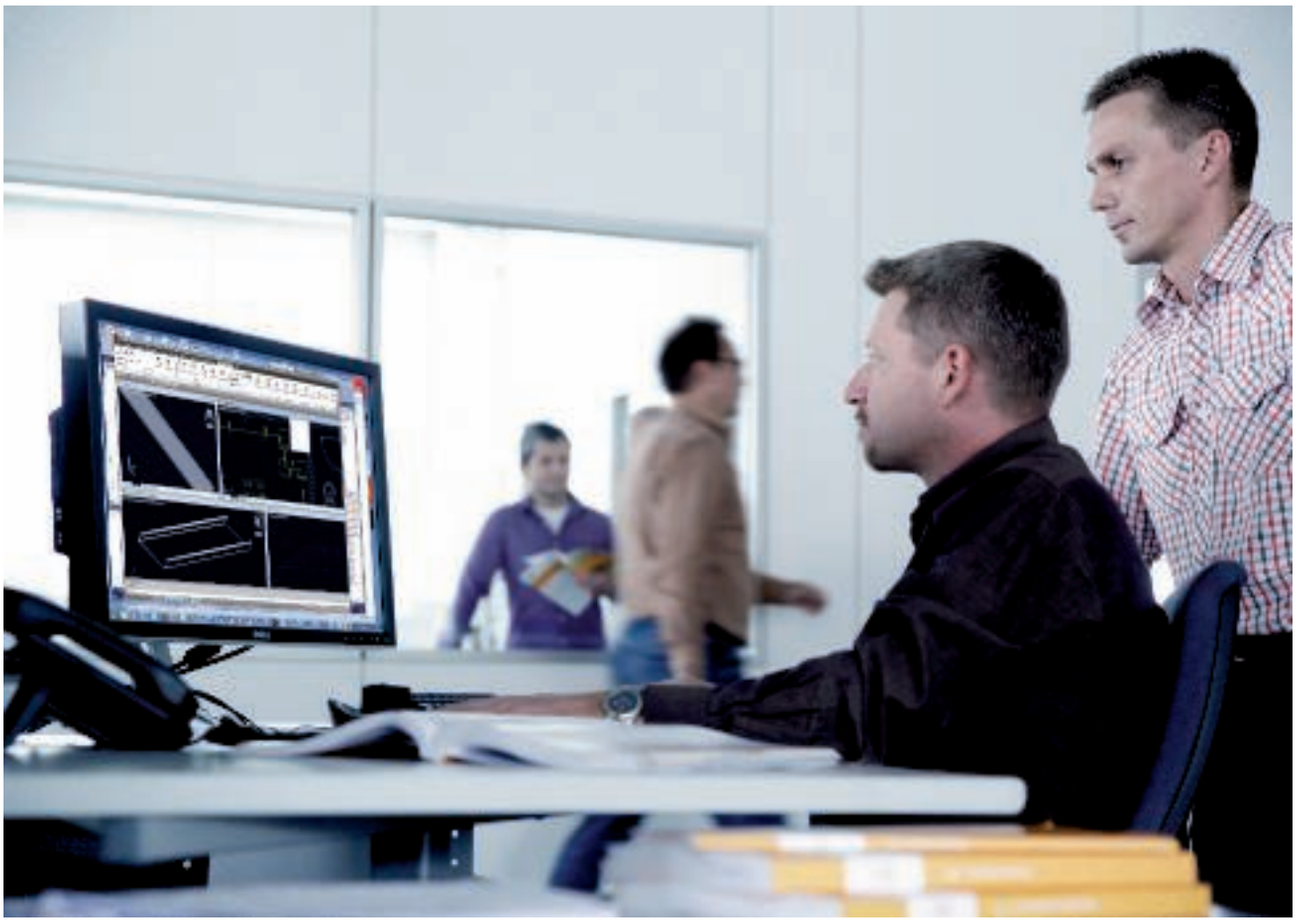
OBO Construct Web

The Internet version for rapid help now no longer needs a CAD system and offers the following benefits:

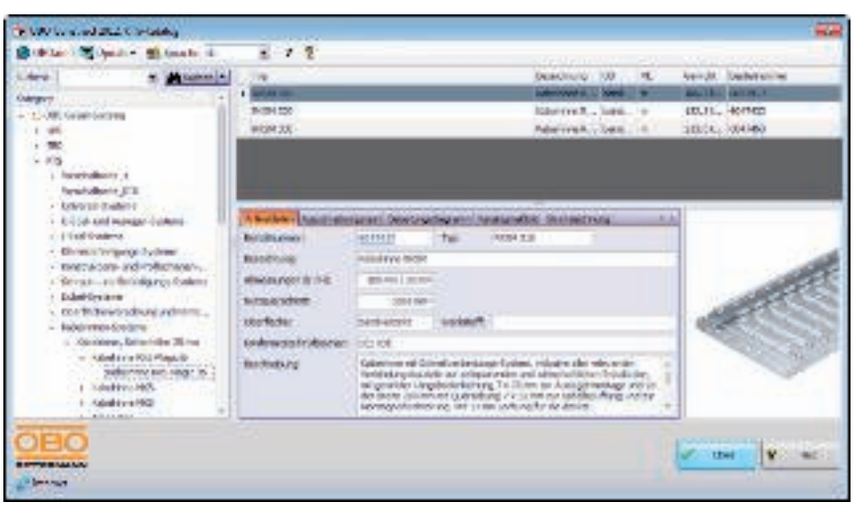
- Simple operation
- For quick and easy application
- Platform-independent
- No installation required
- Access possible from anywhere
- Option of saving project data
- Plans can be printed out as PDFs
- Exact mass determination in an Excel file
- Additional material bookable

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OBO Construct KTS: Project planning, drawing, generation



Find out now
Convince yourself about the new OBO Construct: A new support and training concept makes it easier than ever for you to take your first steps. You can find additional information on the Internet or from our Customer Service.



AutoCAD is a registered trademark of Autodesk Incorporation, USA.

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Standards, specifications and certifications



Standards
OBO offers cable support systems made by professionals for professionals: The technical properties are guaranteed by DIN EN 61537 (follow-up to DIN VDE 0639). It describes all the relevant parameters such as area of application, test conditions, corrosion resistance and temperature classification. As a competent manufacturer of cable support systems, OBO subjects itself to these requirements on a daily basis. Comprehensive test procedures guarantee that systems which conform to standards function safely.

Specifications
All products in this catalogue are CE-compliant in accordance with the appropriate EC directives. This also applies to standard parts such as bolts, washers and nuts that are components of various product systems. The appropriate EC declaration of conformity certifies agreement with the named directives or standards, but does not guarantee properties. The safety instructions in the supplied product information and the general safety regulations must be complied with during installation and use.

Certifications
For OBO, product quality is closely connected to continuous testing and checking – which is why we manufacture almost all our products ourselves. This enormous depth of production is an expression of our demand for quality. From construction and the materials used through production, right up to logistics, our employees personally guarantee the quality and availability of OBO products.
The multitude of approvals emphasize our high demand for quality and product functionality.
Our integrated quality management system forms the solid basis of our ISO 9001 certification, which we have held since 1994. The confirmation of suitability enables defined and workable processes in accordance with KTA 1401 and 10 CFR 50.

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Inclusion of the protective measures



Load tests for cable support systems

All the OBO articles and systems are subjected to practical load testing. The basic principles for the tests of OBO cable support systems are included in IEC 61537. After the load test, the maximum load capacity can be determined for each component, depending on the support distances and specific article parameters, such as component dimensions. This is all shown in a chart, included with each component.

You can find additional information on the load tests for cable trays, brackets and suspended supports in this catalogue. The values given do not take resistance against environmental forces such as snow, wind and other outside influences into account.

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Definition of electromagnetic compatibility (EMC)





In recent years, the use of electronic circuits has increased continually. Whether in industrial systems, medicine, households, in telecommunications systems or electrical building installations – everywhere, we see powerful electric equipment and systems, which switch ever greater currents, achieve greater radio ranges and transport ever more energy in smaller spaces.

However, the use of state-of-the-art technology means that the complexity of applications also increases. The consequence of this is that ever more opposing influences (electromagnetic interference) can occur from system parts and cables, causing damage and economic losses.

Here, we talk of electromagnetic compatibility.
Electromagnetic compatibility (EMC) is the ability of an electrical unit to function satisfactorily in its electromagnetic environment, without inappropriately influencing this environment, to which other units also belong (VDE 0870-1). In terms of standardisation, electromagnetic compatibility is dealt with by the EMC directive 2004/108/EC. This means that electrical resources emit electromagnetic interferences (emission), which are picked up by other devices or units (immission) which act as receivers (interference sink). This means that the function of an interference sink can be severely reduced, meaning, in the worst case, total failure and economic losses. The interferences can spread along cables or in the form of electromagnetic waves.

Path of faults

Fault source (transmitting emissions)	Coupling of interference variables (spreading of interference)	Fault sink (receiving emissions)
For example - Mobile telephones - Switching components - Ignition systems - Frequency converters - Lightning strike - Welding devices	- Galvanic - Inductive - Capacitive - Electromagnetic	- Process computer - Radio receiver systems - Controllers - Converters - Measuring units

Guarantee of EMC



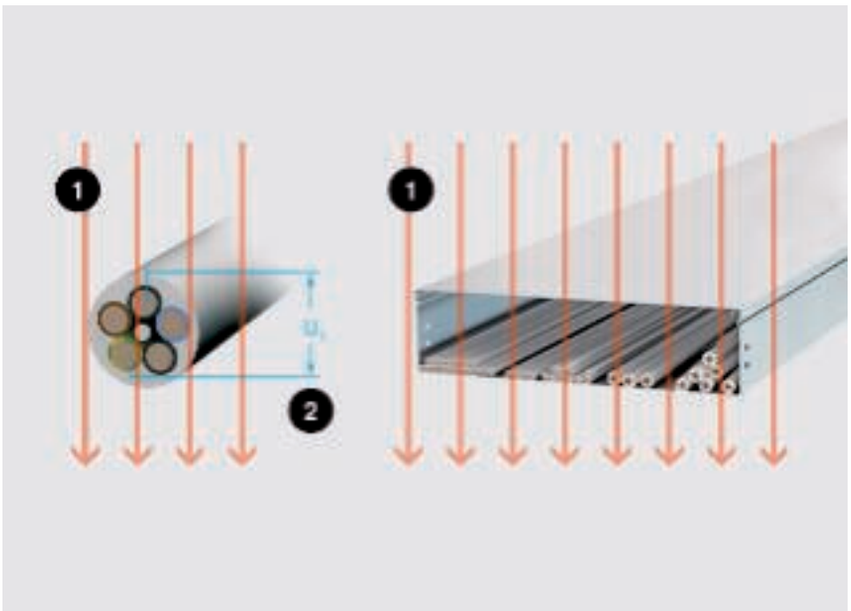
Guarantee of EMC
A systematic planning process is necessary to guarantee EMC. The interference sources must be identified and quantified. The coupling describes the spread of the interference from the interference source up to the influenced device, the interference sink. The task of EMC planning is to ensure the compatibility at the source, coupling path and sink using suitable measures. During their daily work, planners and installation engineers are confronted with this subject on an increasingly regular basis. This means that EMC is a basic factor to be taken into consideration during the planning of installations and cabling systems.
Due to the high complexity of electromagnetic compatibility, the problems of EMC must be analysed and solved using simplifying hypotheses and models as well as experiments and measurements.

Cable support systems and their contribution to EMC
Cable support systems can make an important contribution to the improvement of EMC. They are passive and can thus make a safe, long-lasting contribution to EMC through the fact that cables are run within cable support systems or are shielded by them. Routing cables inside cable support systems greatly reduces the galvanic decoupling and coupling due to electrical and magnetic fields in the cables. Thus cable support systems can make a contribution to the reduction of coupling from the source to the sink. The shielding action of cable support systems can be quantified by the coupling resistance and the shield attenuation. This gives the planner important engineering parameters for cable support systems for the EMC engineering.

Lightning discharge
From the analysis of the effectiveness of EMC in buildings (EN 62305-4), we know that lightning discharge is one of the greatest sources of interference to be expected. This causes a direct current feed into the entire equipotential bonding system in the building and/or to magnetic decoupling of interference currents in electrical cables. With regard to these couplings, cable support systems can offer an effective contribution to the reduction of interference voltages.

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Magnetic shield insulation of cable support systems



The magnetic field (H) of strength 3 kA/m in a defined experimental setup: without cable support system on the left, with cable support system on the right. 1 = Field H, 2 = $V_{1\ LzuPE}$



The magnetic shield insulation of cable support systems is the ratio in decibels (dB) of an induced voltage into an unprotected cable to the induced voltage into the same cable, when this is in a cable support system.

Experimental structure to determine the magnetic shield insulation of cable support systems:
An unshielded cable (NYM-J 5 x 6 mm²) is subjected to an 8/20 magnetic field with a strength of 3 kA/m. Here, the induced voltage V1 is measured in the unshielded cable. The same cable is then positioned in the centre of a cable support system (once with a cover, once without) and subjected to the same magnetic field of 3 kA/m. Here, the induced voltage V2 is measured in the unshielded cable.
The magnetic shield insulation is calculated from the measured values according to the formula:

α_S = 20 log (V1/V2) dB

Experiment result:
The magnetic shield effect α_S of a cable support system could be clearly proved by the experiments and the simulation with an FEM program.
The best result of around 50 dB was achieved with cable support systems (cable trays) with covers.
Note:
The shield insulation against electrical fields is almost perfect, like a Faraday cage.

Magnetic shield insulation 8/20 dB

Type, cable tray / cable ladder	Without cover	With cover
RKSM 630 FS	20	50
MKS 630 FS	20	50
MKS 630 FT	20	50
MKSU 630 FS	20	50
MKSU 630 FT	20	50
MKSU 630 VA	20	50
GRM 55/300 FS	15	34
LG 630 NS FT	10	15

Transfer impedance of cable support systems



Experimental structure for transfer impedance: 1 = Length l, 2 = U, 3 = I, 4 = Pulse source 8/20



$$Z'_T = \frac{U_{Stör}}{I_{Stör} * L}$$

$V_{Interference}$: Interference voltage measured in cable

$I_{Interference}$: Interference current, fed into the shied from outside (KTS)

L: Length of the cable support system

Transfer impedance (coupling resistance) of cable support systems

The transfer impedance of a cable support system is the ratio of the measured voltage $V_{Interference}$, measured in the lengthwise direction within the cable support system, to the coupled current $I_{Interference}$.

The transfer impedance is determined in the same way as with the measurement of the electrical conductivity properties in Chapter 11.1. (DIN EN 61537).

If there is a lightning strike in a building, partial currents will flow through the entire equipotential bonding system.

Installed cables are best run within a cable support system. Installed cable support systems are always included in the equipotential bonding system. In so doing, the partial current flows via the cable support system. A very small component can therefore still flow along the cables laid within the cable support system. This component is determined by the transfer impedance of the cable support system.

The following applies for the transfer impedance:

$Z_T = V_{Interference}/(I_{Interference} \times L)$ [mΩ/m]

The values given are based on measurements, in which a pulse current of the wave shape 8/20 was passed through a defined length of a cable support system.

Experiment result:

The effect of the cable support system against galvanic coupling was clearly proved by the experiments.

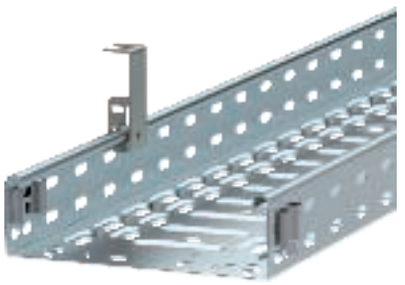
The best result was achieved with cable support systems (cable trays) with covers.

Transfer impedance 8/20 mOhm/m

Type, cable tray / cable ladder	Without cover	With cover
MKS 630 FS	1.14	0.71
MKS 630 FT	1.14	0.71
MKSU 630 FS	0.44	0.09
MKSU 630 FT	0.44	0.09
GRM 55/300 FS	6.17	5.5

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Contact corrosion



Contact corrosion between two different metals poses a considerable risk to the load capacity and lifespan of the components used.

Height of the potential difference
The level of contact corrosion is primarily determined by the level of the potential difference between the contact partners. Contact corrosion occurs at potential differences of 100 mV or greater and the anodic (electrically negative) partner is at risk of corrosion. Therefore, strongly non-precious metals should never be brought into contact with precious metals.

Additional contact corrosion criteria:
- Level of electrical resistance between the contact partners. The higher the resistance, the lower the contact corrosion. Positive on Al and Ti.
- Occurrence of an electrolyte. An electrolyte, such as perspiration or condensation, attacks the protective layers, increasing conductivity. Dirt increases this effect through released ions.
- Length of the impact of the electrolyte. The longer the electrolyte is active, the greater the corrosion will be.
- The surface ratios of the contact partners influence the current density. The best thing to have is a small surface ratio of the "precious" to the "less precious" contact partner.

Potential difference

Normal potential		Practical voltage series, water pH 6		Practical voltage series, artificial seawater pH 7.5	
Metal	mV	Metal	mV	Metal	mV
Copper	+340	Titanium	136	Nickel	1
Lead	-126	Brass MS 63	100	Brass MS 63	32
Tin	-140	Copper	94	Copper	-35
Nickel	-230	Nickel	73	RF steel 1.4301	-90
Iron	-440	RF steel	-129	Titanium	-156
Zinc	-763	Aluminium	-214	Lead	-304
Titanium	-1630	Hard chromium	-294	Hard chromium	-336
Aluminium	-1660	Tin 98	-320	Steel	-380
Magnesium	-2370	Lead 99.9	-328	Aluminium	-712
Steel	-395				
Zinc	-852				

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Contact corrosion



Land climate

Material component (large)		Material construction element (small)					
OBO designation	Basic material Coating	FT	VA	AL	CU	MS	Zamak
Steel, galvanised (FT, FS, DD, G)	DD11/Zn, S234(St37)/Zn, ST4-2/Zn, St500-2/Zn, StW22/Zn, DX51D/Zn	0	0	0	2	1	0
Stainless steel V2A, V4A, V5A	1.4301, 1.4310, 1.4401, 1.4404, 1.4571, 1.4529	0	0	1	1	1	0
Aluminium Al	AlMg3, AlMgSi0.5	0	0	0	2	1	0
Copper Cu	E-Cu S7, F24, Se-Cu(2.0070), SF-Cu F24, St50-2	1	1	1	0	1	2
Brass Ms1	CuZn39Pb3, CuZn40Pb2	0	1	1	1	0	2
Brass MS2	CuZn37	0	2	1	1	0	2
Die-cast zinc Zamak ZnAlCu1	Z410(GD-ZnAl4Cu1)	1	1	0	3	1	0

Legend
0 No risk for contact corrosion
1 Low risk
2 Risk in case of small area ration (area of non-precious metal / area of precious metal)
3 High risk

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Contact corrosion



Industrial atmosphere

Material component (large)		**Material construction element (small)**					
OBO designation	Basic material Coating	FT	VA	AL	CU	MS	Za-mak
Steel, galvanised (FT, FS, DD, G)	DD11/Zn, S234(St37)/Zn, ST4-2/Zn, St500-2/Zn, StW22/Zn, DX51D/Zn	0	0	1	3	2	0
Stainless steel V2A, V4A, V5A	1.4301, 1.4310, 1.4401, 1.4404, 1.4571, 1.4529	0	0	1	1	1	0
Aluminium Al	AlMg3, AlMgSi0.5	1	1	0	2	2	0
Copper Cu	E-Cu S7, F24, Se-Cu(2.0070), SF-Cu F24, St50-2	2	2	3	0	1	2
Brass Ms1	CuZn39Pb3, CuZn40Pb2	1	1	2	1	0	1
Brass MS2	CuZn37	1	1	3	1	0	1
Die-cast zinc Zamak ZnAlCu1	Z410(GD-ZnAl4Cu1)	0	0	0	3	2	0

Legend
0 No risk for contact corrosion
1 Low risk
2 Risk in case of small area ration (area of non-precious metal / area of precious metal)
3 High risk

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Contact corrosion



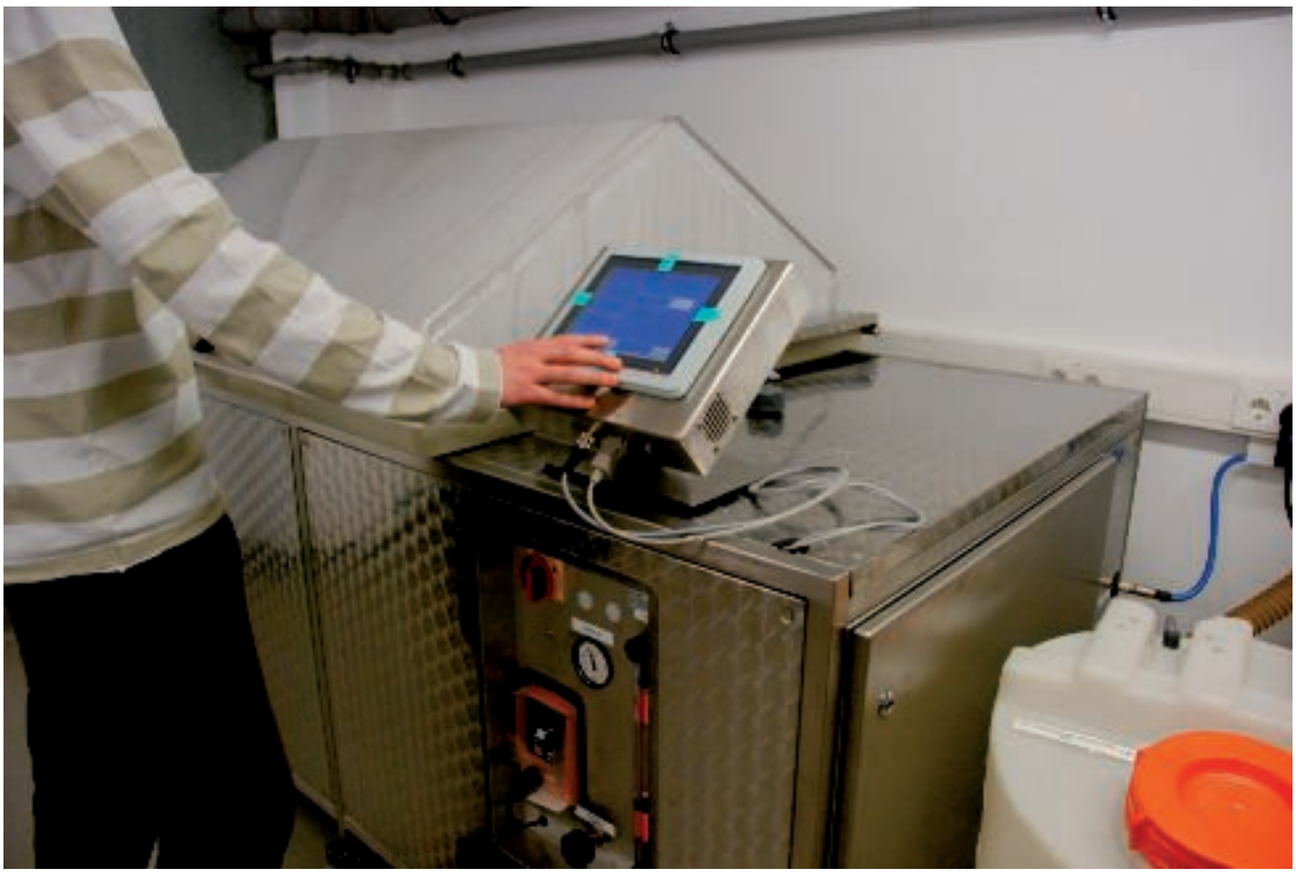
Sea climate

Material component (large)		Material construction element (small)					
OBO designation	Basic material Coating	FT	VA	AL	CU	MS	Zamak
Steel, galvanised (FT, FS, DD, G)	DD11/Zn, S234(St37)/Zn, ST4-2/Zn, St500-2/Zn, StW22/Zn, DX51D/Zn	0	1	3	3	2	1
Stainless steel V2A, V4A, V5A	1.4301, 1.4310, 1.4401, 1.4404, 1.4571, 1.4529	1	0	3	1	1	0
Aluminium Al	AlMg3, AlMgSi0.5	3	1	0	2	2	0
Copper Cu	E-Cu S7, F24, Se-Cu(2.0070), SF-Cu F24, St50-2	2	2	3	0	1	2
Brass Ms1	CuZn39Pb3, CuZn40Pb2	1	1	3	1	0	1
Brass MS2	CuZn37	1	1	3	1	0	1
Die-cast zinc Zamak ZnAlCu1	Z410(GD-ZnAl4Cu1)	0	0	0	3	2	2

Legend
0 No risk for contact corrosion
1 Low risk
2 Risk in case of small area ration (area of non-precious metal / area of precious metal)
3 High risk

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Surface testing and corrosion categories



Salt spray test
All the system components must show sufficient resistance against corrosion in agreement with the KTS standard, DIN EN 61537. The minimum zinc layer thicknesses are determined through a measurement. The grouping into the appropriate class is located in the lower table on the next page. The top table on the next page presents the area of use and the zinc reduction to be expected according to DIN EN ISO 12944.

Surface testing and corrosion categories

Classification of corrosion resistance according to EN 61537

Class	Reference material and surface treatment
0*	None
1	Electroplated to a minimum thickness of 5 µm
2	Electroplated to a minimum thickness of 12 µm
3	Pre-galvanised to grade 275 to EN 10327 and EN 10326
4	Pre-galvanised to grade 350 to EN 10327 and EN 10326
5	Post-galvanised to a zinc mean coating thickness of (minimum) 45 µm according to ISO 1461
6	Post-galvanised to a zinc mean coating thickness (minimum) of 55 µm according to ISO 1461
7	Post-galvanised to a zinc mean coating thickness (minimum) of 70 µm according to ISO 1461
8	Post-galvanised to a zinc mean coating thickness (minimum) of 85 µm according to ISO 1461 (usually high silicon steel)
9A	Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S30400 or EN 10088 grade 1-4301 without a post-treatment *
9B	Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S31603 or EN 10088 grade 1-4404 without a post-treatment *
9C	Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S30400 or EN 10088 grade 1-4301 with a post-treatment **
9D	Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S31603 or EN 10088 grade 1-4404 with a post-treatment **

* For materials which do not have a declared corrosion resistance classification
** The end treatment process is used to improve the protection against crack corrosion and the contamination of other steels

Corrosion categories to DIN EN ISO 12944

Corrosion category	Typical environment, inside	Typical environment, outside	Corrosion load	Average zinc loss
C 1	Heated buildings with neutral atmospheres, e.g. offices, shops, schools, hotels	-	Insignificant	<0.1 µm/a
C 2	Unheated buildings in which condensation can occur, e.g. warehouses, sports' halls	Atmosphere with low level of impurities. Often rural areas	Low	0.1 to 0.7 µm/a
C 3	Production facilities with a high level of humidity and some air impurities, e.g. plants for food production, laundries, breweries, dairies	City and industrial atmosphere, considerable impurities through sulphur dioxide, coastal areas with low salt load	Medium	0.7 to 2.1 µm/a
C 4	Chemical plants, swimming pools, boat sheds over seawater	Industrial areas and coastal areas with low salt load	Strong	2.1 to 4.2 µm/a
C 5-I	Buildings or areas with almost constant condensation and with high levels of impurities	Industrial areas with high levels of humidity and aggressive atmosphere	Very strong (industry)	4.2 to 8.4 µm/a
C 5-M	Buildings or areas with almost continuous condensation and with high levels of impurities	Coastal or offshore areas with salt load.	Very strong (sea)	> 4.2 to 8.4 µm/a

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Surfaces for indoor use



Whether indoors or outdoors, in aggressive atmospheres or under special hygienic conditions: OBO can offer the perfect surface and materials for your cable support system, no matter what the requirements may be. OBO cable support systems are machined from high-quality sheet steel or steel wire and are available with various surfaces. Different hardening and coating methods ensure tailor-made corrosion protection, specially tailored to the appropriate application. In addition, OBO cable support systems are available in stainless steel and with coloured coatings.

Indoor use
For applications in indoor areas, OBO can offer cable support systems with galvanisation or strip galvanisation. They are particularly suited to dry atmospheres without any impact from aggressive pollutants.

Electro-galvanisation
- Electrolytic galvanisation in accordance with IEC 12329
- Average coating thickness approx. 2.5–10 µm
- According to RoHS guideline

Components: Mesh cable trays and small parts such as bolts, washers and nuts.

Strip galvanisation
- Hot-dip galvanised according to the strip-galvanising method in accordance with IEC 10346 (formerly IEC 10327)
- Average coating thickness approx. 20 µm
- Joints in the metal are protected by cathodic corrosion protection up to a thickness of 2.0 mm

Components: Metal products such as cable trays, fittings and barrier strips.

Surfaces for outdoor use



Outdoor use
OBO can offer versions with hot-dip galvanisation and double-dip galvanisation for outdoor and wet - room use.

Hot-dip galvanisation
- Hot galvanisation using the dipping method according to DIN EN ISO 1461
- Coating thickness to DIN EN ISO 1461 approx. 40–60 µm
- Any interfaces added at a later date must also be galvanised to protect against corrosion

Components: Sheet steel products such as cable trays and welded components such as supports and brackets.

Double-dip galvanisation
- Hot dipping with zinc-aluminium coating in accordance with DIN EN 10346
- Average coating thickness approx. 23 µm
- Joints in the metal are protected by cathodic corrosion protection up to a thickness of 2.0 mm

Components: Metal products such as covers, barrier strips and punched parts.

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Surfaces for use in the chemical industry, the food industry or in tunnel construction.



Applications: Tunnel construction, food or chemical industries
There are also OBO stainless steel systems for special hygiene and quality requirements for special visual criteria for open wiring.

Stainless steel
- OBO Code: V2A
- European material number: 1.4301
- American material designation: 304
- Welded components are additionally passivated
- Unwelded components are rinsed and degreased

Stainless steel
- OBO Code: V4A
- European material number: 1.4571
- American material designation: 316 / 316 T
- Welded components are additionally passivated
- Unwelded components are rinsed and degreased

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Surfaces for special visual requirements or special environmental conditions



Applications with specific optical requirements or special environmental conditions

Colour-coated cable support systems are becoming ever more popular. The coating may be required for optical reasons or for reasons of corrosion protection.

Colour coatings for reasons of corrosion protection

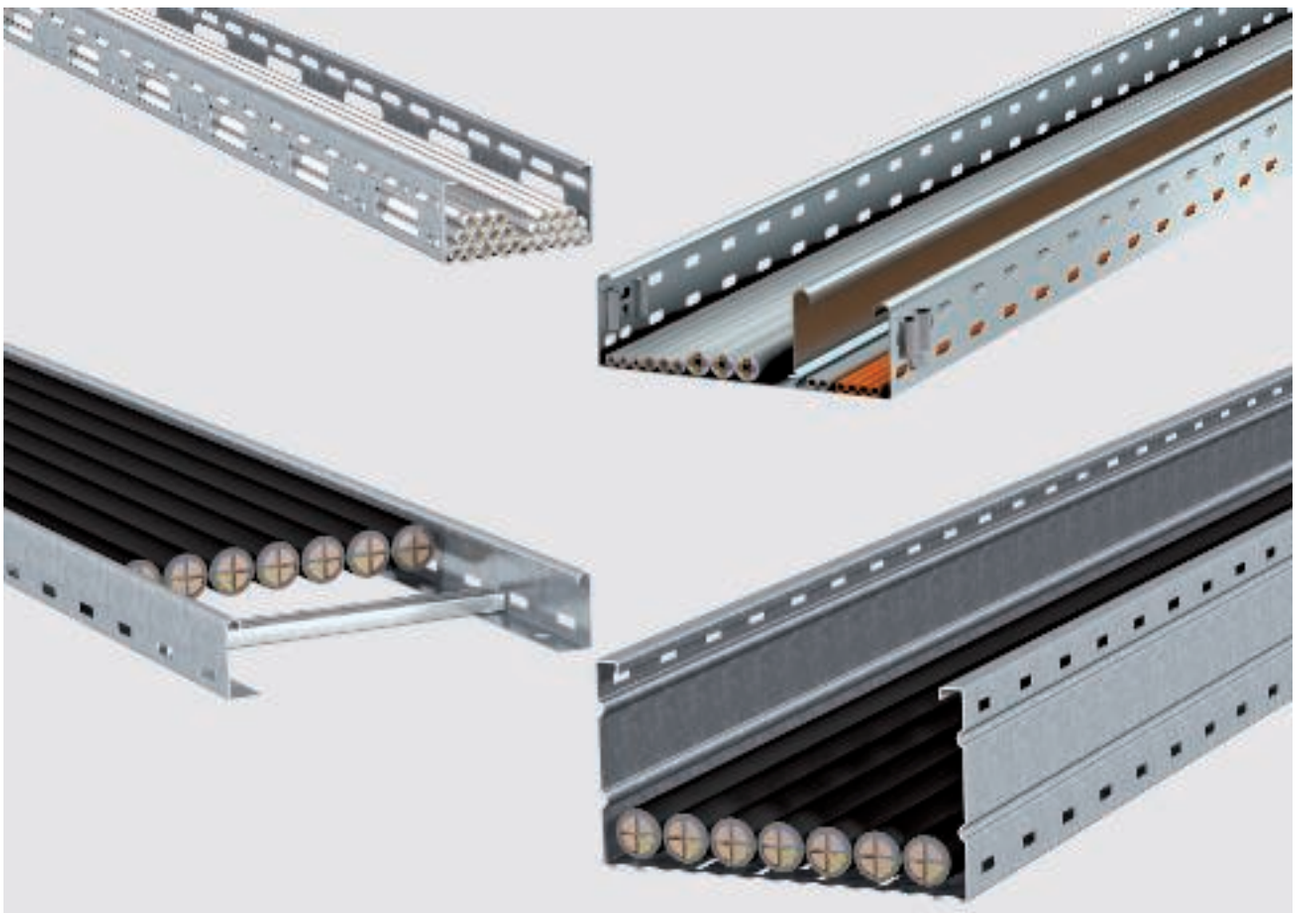
- Cable support system in FT (hot-dip galvanised version)
- All RAL colours available
- Coating of the visible surfaces and/or the complete system
- Suitable for the colour of the structure when routed openly
- Separation of different voltages/-functions (e.g. blue 230/400 V power supply; red weak current such as telephone line and IT)



Colour-coated systems are not indicated specially in this catalogue. You can obtain details for these systems by contacting our telephone hotline on 011-378-3700

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Which cabling method is used?



Not all cables are the same. To select the perfect cable support system, you need to know which type of cables are to be laid: Are they sensitive data cables, which must be laid at a certain distance from each other on account of the necessary shielding? Or power cables, for which a not inconsiderable heat build-up must be allowed for? For all these applications OBO can offer tailor-made system solutions.

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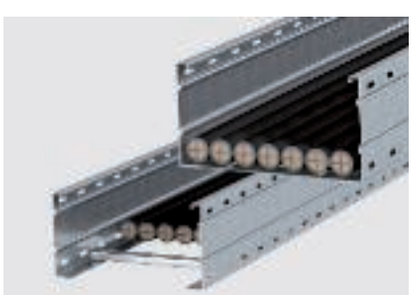
Universal cable trays
Areas of application: From low-voltage cabling to power supply.



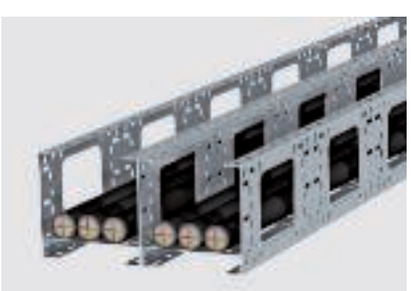
Mesh cable trays for the installation of light cables
Areas of application: IT cabling, telephone cabling and control cables. Also suitable for use in false ceilings and cavity floors.



Cable ladders for power cables with a large cross-section
Areas of application: Cables and power conductors with large cross-sections. These can be fastened to the rungs using clamp clips. The high load capacity and good ventilation ensure perfect cable laying.



Wide span cable trays and ladders for large support distances
Areas of application: For installations in which the support distances are more than three metres, on account of the construction conditions.



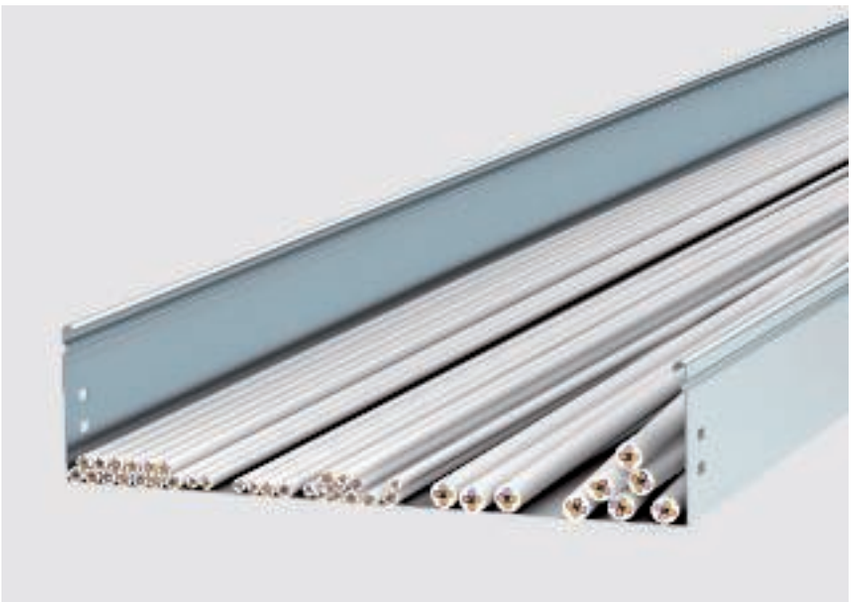
Modular system for special tasks
The product range that knows no bounds. The range of individually combinable products is particularly suited to complex installation tasks.



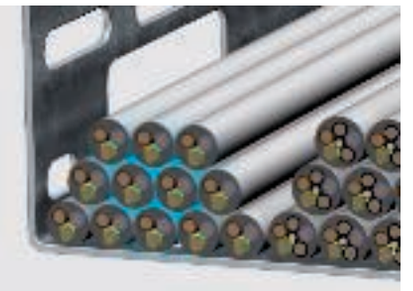
AZ channel for universal use
Areas of application: for luminaire support systems through to low-voltage cabling and power supply.

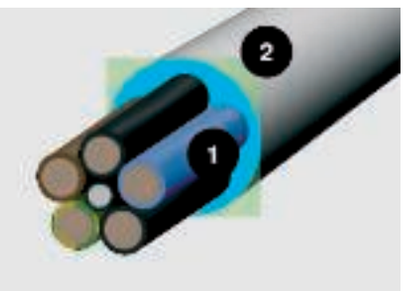
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How can I work out the volume of cables?



The usable cross-section of the cable simulates the cavity in real laying.





Cable diameter (1) and space required (2)

An important criteria for the selection of the correct cable support system is the cable volume, for which there must be sufficient space in the cable tray. As the cables are never packed tightly together or are absolutely parallel, it is not enough to base the volume calculation solely on the cable diameter. A realistic calculation is provided by the formula $(2r)^2$. To save you work, we have listed the diameter and usable cross-section of the most important cable types below.
Important: These values are average values, which may vary from manufacturer to manufacturer. Please refer to the manufacturer's specifications for the exact values.

Calculation with the formula $(2r)^2$
The diameter says little about the actual space required by a cable. Calculate: $(2r)^2$. This value reflects the realistic space requirements, including the compartments.

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How can I work out the volume of cables?



Insulated power cables

Type	Diameter mm	Usable cross-section cm²
1 x 4	6.5	0.42
1 x 6	7	0.49
1 x 10	8	0.64
1 x 16	9.5	0.9
1 x 25	12.5	1.56
3 x 1.5	8.5	0.72
3 x 2.5	9.5	0.9
3 x 4	11	1.21
4 x 1.5	9	0.81
4 x 2.5	10.5	1.1
4 x 4	12.5	1.56
4 x 6	13.5	1.82
4 x 10	16.5	2.72
4 x 16	19	3.61
4 x 25	23.5	5.52
4 x 35	26	6.76
5 x 1.5	9.5	0.9
5 x 2.5	11	1.21
5 x 4	13.5	1.82
5 x 6	14.5	2.1
5 x 10	18	3.24
5 x 16	21.5	4.62
5 x 25	26	6.76
7 x 1.5	10.5	1.1
7 x 2.5	13	1.69



Insulated power cables

Type	Diameter mm	Usable cross-section cm²
1 x 10	10.5	1.1
1 x 16	11.5	1.32
1 x 25	12.5	1.56
1 x 35	13.5	1.82
1 x 50	15.5	2.4
1 x 70	16.5	2.72
1 x 95	18.5	3.42
1 x 120	20.5	4.2
1 x 150	22.5	5.06
1 x 185	34	6.25
1 x 240	28	7.84
1 x 300	30	9
3 x 1.5	11.5	1.32
3 x 2.5	12.5	1.56
3 x 10	17.5	3.06
3 x 16	19.5	3.8
3 x 50	26	6.76
3 x 70	30	9
3 x 120	36	12.96
4 x 1.5	12.5	1.56
4 x 2.5	13.5	1.82
4 x 6	16.5	2.72
4 x 10	18.5	3.42
4 x 16	21.5	4.62
4 x 25	25.5	6.5
4 x 35	28	7.84
4 x 50	30	9
4 x 70	34	11.56
4 x 95	39	15.21
4 x 120	42	17.64
4 x 150	47	22
4 x 185	52	27
4 x 240	58	33.6
5 x 1.5	13.5	1.82
5 x 2.5	14.5	2.1
5 x 6	18.5	3.42
5 x 10	20.5	4.2
5 x 16	22.5	5.06
5 x 25	27.5	7.56
5 x 35	34	11.56
5 x 50	40	16



Telecommunications cables

Type	Dia-meter mm	Usable cross-section cm²
2 x 2 x 0.6	5	0.25
4 x 2 x 0.6	5.5	0.3
6 x 2 x 0.6	6.5	0.42
10 x 2 x 0.6	7.5	0.56
20 x 2 x 0.6	9	0.81
40 x 2 x 0.6	11	1.12
60 x 2 x 0.6	13	1.69
100 x 2 x 0.6	17	2.89
200 x 2 x 0.6	23	5.29
2 x 2 x 0.8	5.5	0.36
4 x 2 x 0.8	7	0.49
6 x 2 x 0.8	8.5	0.72
10 x 2 x 0.8	9.5	0.9
20 x 2 x 0.8	13	1.69
40 x 2 x 0.8	16.5	2.72
60 x 2 x 0.8	20	4
100 x 2 x 0.8	25.5	6.5
200 x 2 x 0.8	32	10.24



IT cables Type Cat...

Type	Diameter mm	Usable cross-section cm²
Cat. 5	8	0.64
Cat. 6	8	0.64

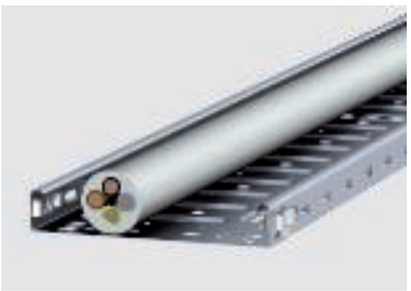


Coax cable (Standard)

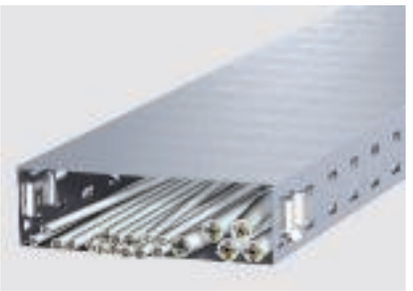
Type	Diameter mm	Usable cross-section cm²
SAT/BK cable	6.8	0.48

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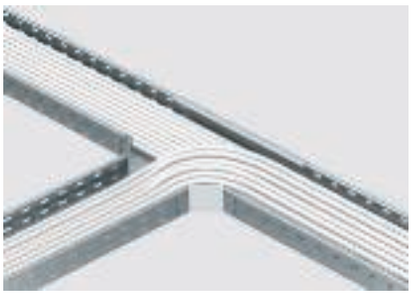
How can I find a system of the appropriate volume?



Cable height
The cable height may not exceed the edge height of the cable tray.



Volume reserve
When selecting the system, a volume reserve of at least 30% should be planned for possible later installations.



Branches
When dimensioning branches, the bending radii of the cables must be taken into account.



Separation of system levels
When selecting the volume, pay attention to the different conductors. To separate different voltage levels, you must take the required spacings into account.



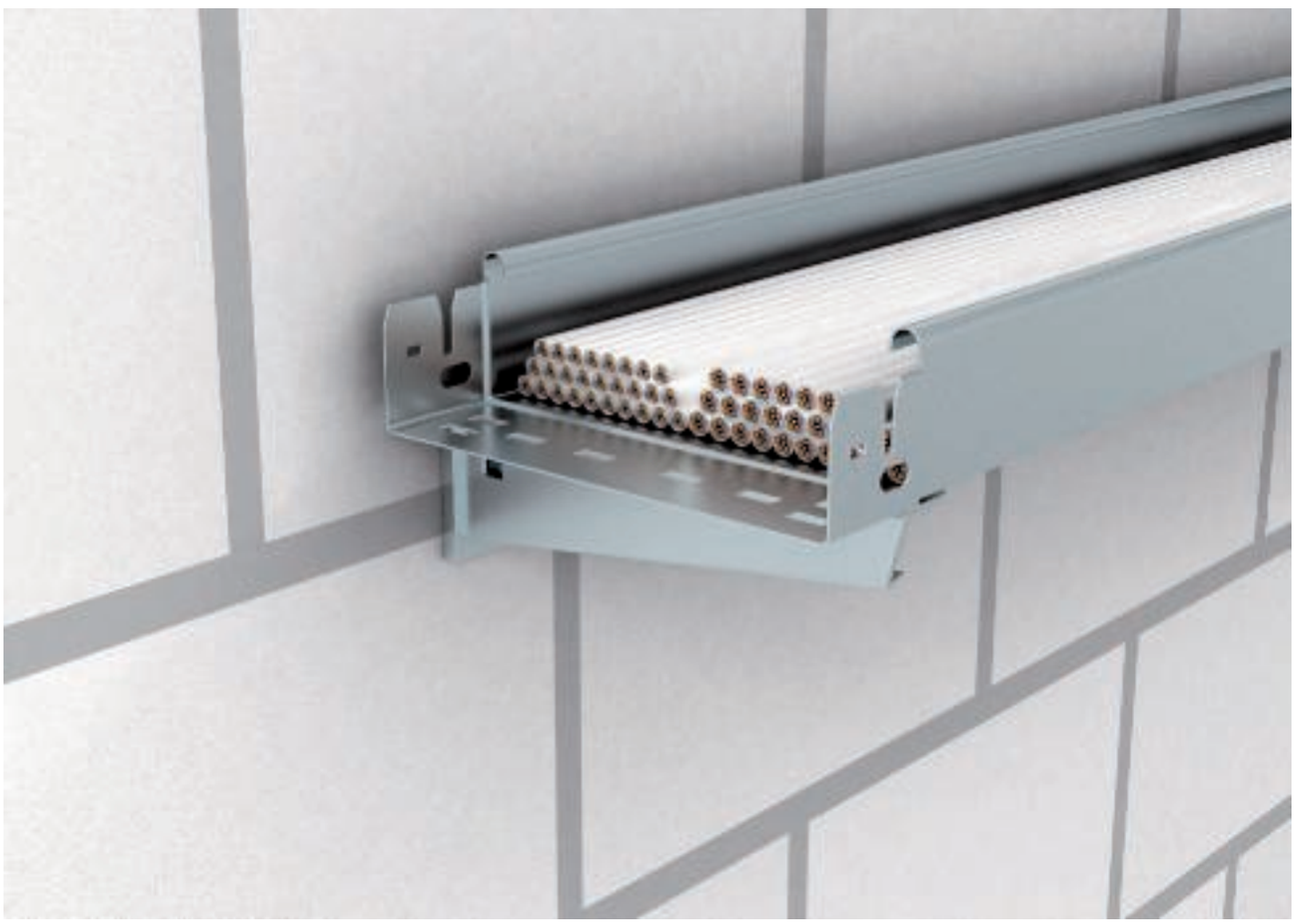
Same usable cross-section, different requirements
The following table will help you to choose a cable support system of the right volume. It underlines the interplay of tray or ladder width, slant height and usable cross-section. The difference when laying the same volume of data and power cables should be taken into account: While it is possible to select a narrow, high tray for data cables, a wide, flat tray is necessary for power cables.



Examples
Flat, wide variant:
- e.g. for power cables
- Cable tray width: 300 mm
- Side rail height: 35 mm
- Usable cross-section: 103 cm^2

Narrow, high variant:
- e.g. for data cables
- Cable tray width: 100 mm
- Side height: 110 mm
- Usable cross-section: 108 cm^2

Reference laying types



When selecting the correct system, also observe the current DIN/VDE standards (0298 T1 to T4). They provide information on the heating of conductors, depending on the amassment and the ambient temperature.



Reference laying type: C
Cable on unperforated cable tray, e.g. type MKSMU



Reference laying type: E or F
Cable on perforated cable tray, horizontal/vertical, e.g. type RKSM/MKSM



Reference laying type: E, F or G
Cable or installation cable on mesh cable trays, e.g. type GR-Magic

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How do I calculate the cable weight?



100 mm = 15 kg/m



200 mm = 30 kg/m



300 mm = 45 kg/m



400 mm = 60 kg/m



500 mm = 75 kg/m



600 mm = 90 kg/m

Of equal significance for the selection of the cable support system most suited to the application is the load capacity of the system. This must be matched with the expected cable weight (including the reserve for later installation). There are three variants for determining the cable weight:

Variant 1: Orientation to experience values

The average load capacity of a cable tray can be calculated roughly using experience values. For a system with a strut height of 60 mm, a value of 15 kg per 100 mm width is valid for each metre of cable tray or cable ladder. However, more accurate than orientation to experience values is to calculate the cable load using the formula from DIN VDE 0639 Part 1 (Variant 2) or the manufacturer's specifications (Variant 3).
The graphics show the load capacities, based on experience values, of cable trays with a rail height of 60 mm, relative to cable tray widths of 100 to 600 mm.

Variant 2: Calculation formula according to VDE 0639 T1

To calculate a maximum approved cable load, DIN VDE 0639 Part 1 (cable support systems) can offer a formula.
In the example calculation, the maximum approved cable load for a cable tray is worked out using the dimension 60 mm x 300 mm and a usable cross-section of 178 cm².

Variant 3: Exact calculation according to manufacturer's specifications

Most cable manufacturers offer a very accurate method of calculating cable weights, and appropriate lists or tables can be obtained from them. Important: The tables only provide a rough overview. They are average values, which may vary from manufacturer to manufacturer. Please refer to the manufacturer's specifications for the exact values.

	0.028 N	
Cable load (F) =	**————**	**x Usable cross-section**
	m x mm²	

	0.028 N	
1. Cable load (F) =	**————**	**x 17,800 mm² = 500 N/m**
	m x mm²	

2. Conversion from Newtons (N) to kilogrammes (kg)
10 N ~ 1 kg – in our example, this means: 500 N/m = 50 kg/m

3. Maximum occurring load = 50 kg/m

Actual cable weights of different cable types



Insulated power cables

Type	Cable load kg/m
1 x 4	0.08
1 x 6	0.105
1 x 10	0.155
1 x 16	0.23
1 x 25	0.33
3 x 1.5	0.135
3 x 2.5	0.19
3 x 4	0.265
4 x 1.5	0.16
4 x 2.5	0.23
4 x 4	0.33
4 x 6	0.46
4 x 10	0.69
4 x 16	1.09
4 x 25	1.64
4 x 35	2.09
5 x 1.5	0.19
5 x 2.5	0.27
5 x 4	0.41
5 x 6	0.54
5 x 10	0.85
5 x 16	1.35
5 x 25	1.99
7 x 1.5	0.235
7 x 2.5	0.35



Insulated power cables

Type	Cable load kg/m
1 x 10	0.18
1 x 16	0.24
1 x 25	0.35
1 x 35	0.46
1 x 50	0.6
1 x 70	0.8
1 x 95	1.1
1 x 120	1.35
1 x 150	1.65
1 x 185	2
1 x 240	2.6
1 x 300	3.2
3 x 1.5	0.19
3 x 2.5	0.24
3 x 10	0.58
3 x 16	0.81
3 x 50	1.8
3 x 70	2.4
3 x 120	4
4 x 1.5	0.22
4 x 2.5	0.29
4 x 6	0.4
4 x 16	1.05
4 x 25	1.6
4 x 35	1.75
4 x 50	2.3
4 x 70	3.1
4 x 95	4.2
4 x 120	5.2
4 x 150	6.4
4 x 185	8.05
4 x 240	11
5 x 1.5	0.27
5 x 2.5	0.35
5 x 6	0.61
5 x 10	0.88
5 x 16	1.25
5 x 25	1.95
5 x 35	2.4
5 x 50	3.5



Telecommunications cables

Type	Cable load kg/m
2 x 2 x 0.6	0.03
4 x 2 x 0.6	0.035
6 x 2 x 0.6	0.05
10 x 2 x 0.6	0.065
20 x 2 x 0.6	0.11
40 x 2 x 0.6	0.2
60 x 2 x 0.6	0.275
100 x 2 x 0.6	0.445
200 x 2 x 0.6	0.87
2 x 2 x 0.8	0.04
4 x 2 x 0.8	0.055
6 x 2 x 0.8	0.08
10 x 2 x 0.8	0.115
20 x 2 x 0.8	0.205
40 x 2 x 0.8	0.38
60 x 2 x 0.8	0.54
100 x 2 x 0.8	0.875
200 x 2 x 0.8	1.79



IT cables Type Cat...

Type	Cable load kg/m
Cat. 5	0.06
Cat. 6	0.06

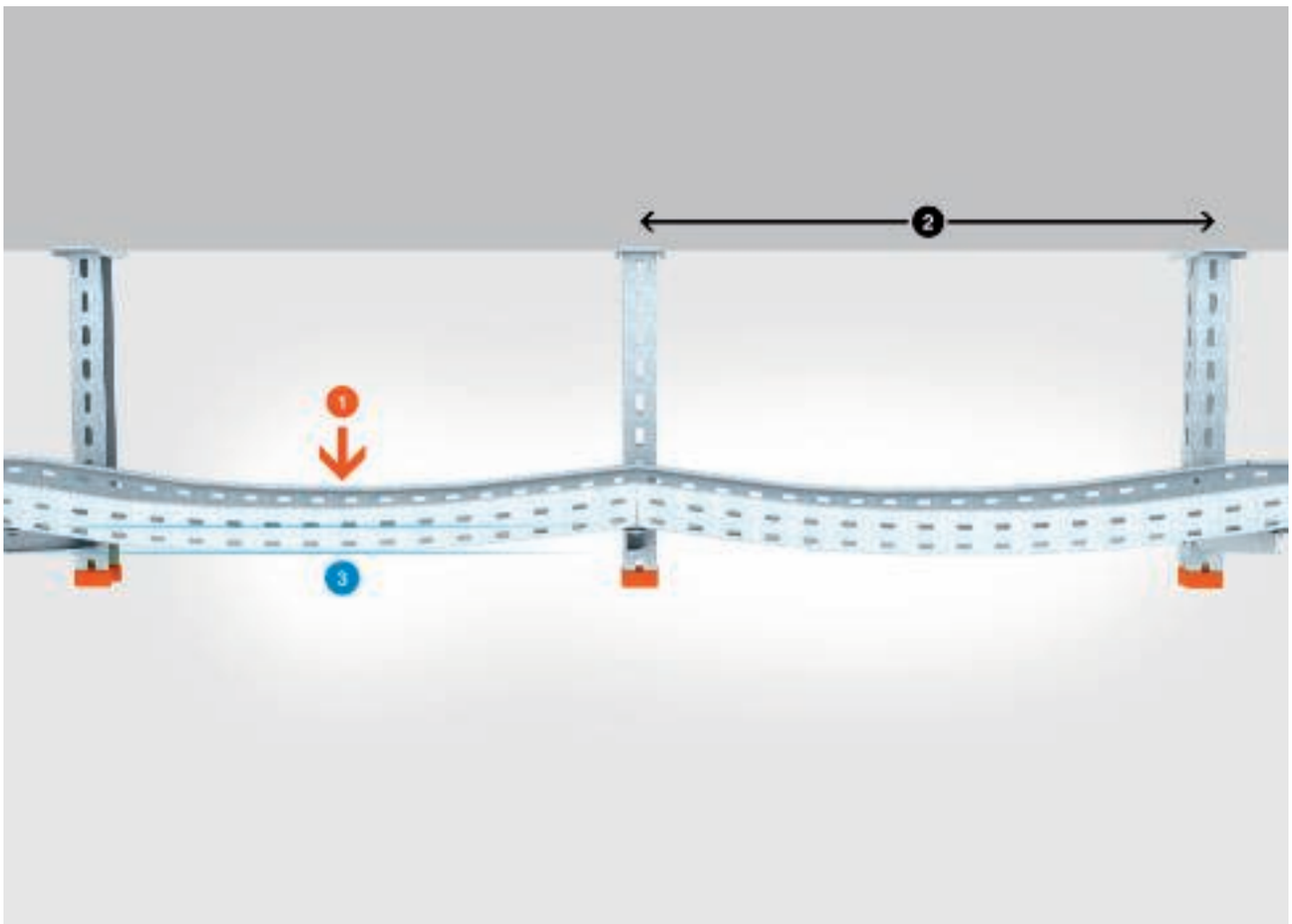


Coax cable (Standard)

Type	Cable load kg/m
SAT/BK cable	0.06

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Which trays and ladders can support which cable load?



Explanation of the pictograms: 1 = load in kN without man load, 2 = support width in m, 3 = strut bend in mm

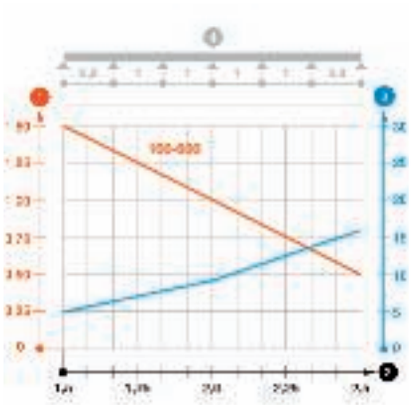
Load tests for cable support systems

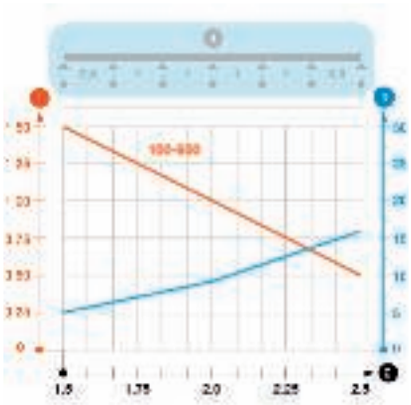
All the OBO articles and systems are subjected to practical load testing. The basic principles for the tests of OBO cable support systems are included in IEC 61537 and DIN VDE 0639. After the load test, the maximum load capacity can be determined for each component, depending on the support distances and specific article parameters, such as component dimensions. This is shown in a diagram, included with each component.

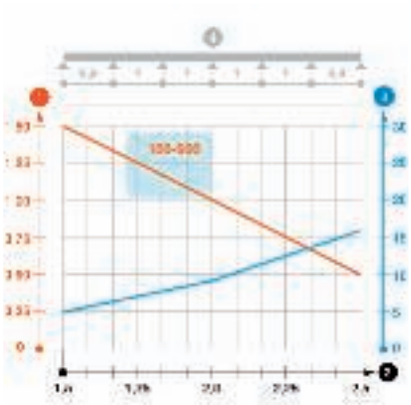
You can find additional information on the load tests for cable trays, brackets and suspended supports in this catalogue. The values given do not take resistance against environmental forces such as snow, wind and other outside influences into account.

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Which trays and ladders can support which cable load?







Load diagram, legend

1 = Load in kN/m
without man load
2 = Support width in m
3 = Strut bending in mm
4 = Schematic diagram of the support widths for testing method
– = Approved load for the different tray widths depending on the support spacing
– = Rail bend according to the support width

Information 1: The testing process

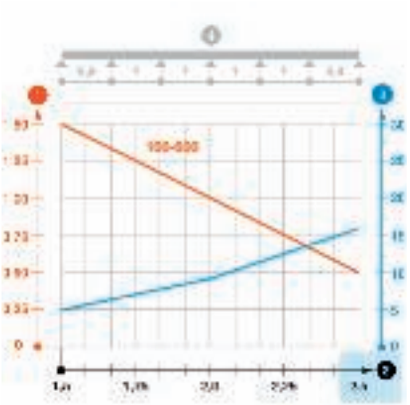
The basic principles of the tests of OBO cable support systems is VDE 0639 Part 1 and IEC 61537. The purpose of the tests is to determine the maximum load capacities for each component, depending on parameters such as component width, support spacing, etc. and to present this in a diagram to be included with each component. The area highlighted in blue in the above example schematises the experiment setup with a variable support spacing (L) in the central area and a factor of 0.8 x L at the front and rear ends of the cable tray.

Information 2: Load curves for selected cable tray or cable ladder widths

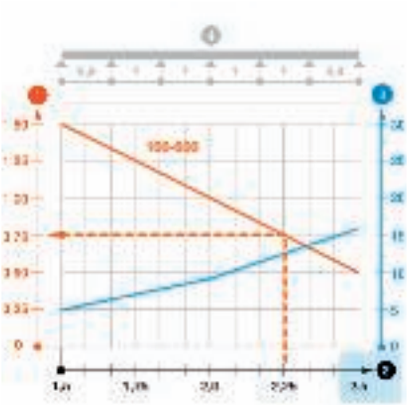
The load capacity of the cable trays according to the support width can be read off in the diagram using the load curves – this is an example for a cable tray for the tray widths 100 to 600 mm. It may occur that, in the load curves, width differences must be made, allowing multiple curves to be visible simultaneously in the diagram. A key factor for the load capacity of the cable trays is, beside the support spacing and side height, the material thickness, which varies according to type.

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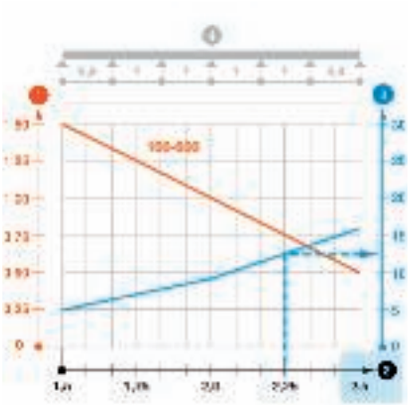
Which trays and ladders can support which cable load?



Information 3: Possible support spacings
The theoretically possible spans for the cable tray can be read off on the axis at the foot of the table. Using the load curves, it is easy to read off to what extent the load capacity of the system falls as the support spacing grows. On all OBO cable support systems (with the exception of the wide span trays), we recommend not exceeding a support spacing of 1.5 m, if possible.



Information 4: Ratio: load/span
Which load is possible at which support spacing? With the diagram, you can find the appropriate information at a glance. In our example (with the blue background) a span of 2.25 m for the tray produces a maximum load capacity of 0.75 kN for each running metre of cable tray. Please note that, in this example, the volume of the cable tray may exceed the permitted load. Therefore, if at all possible, do not exceed the support spacing of 1.5 m, as recommended by OBO.

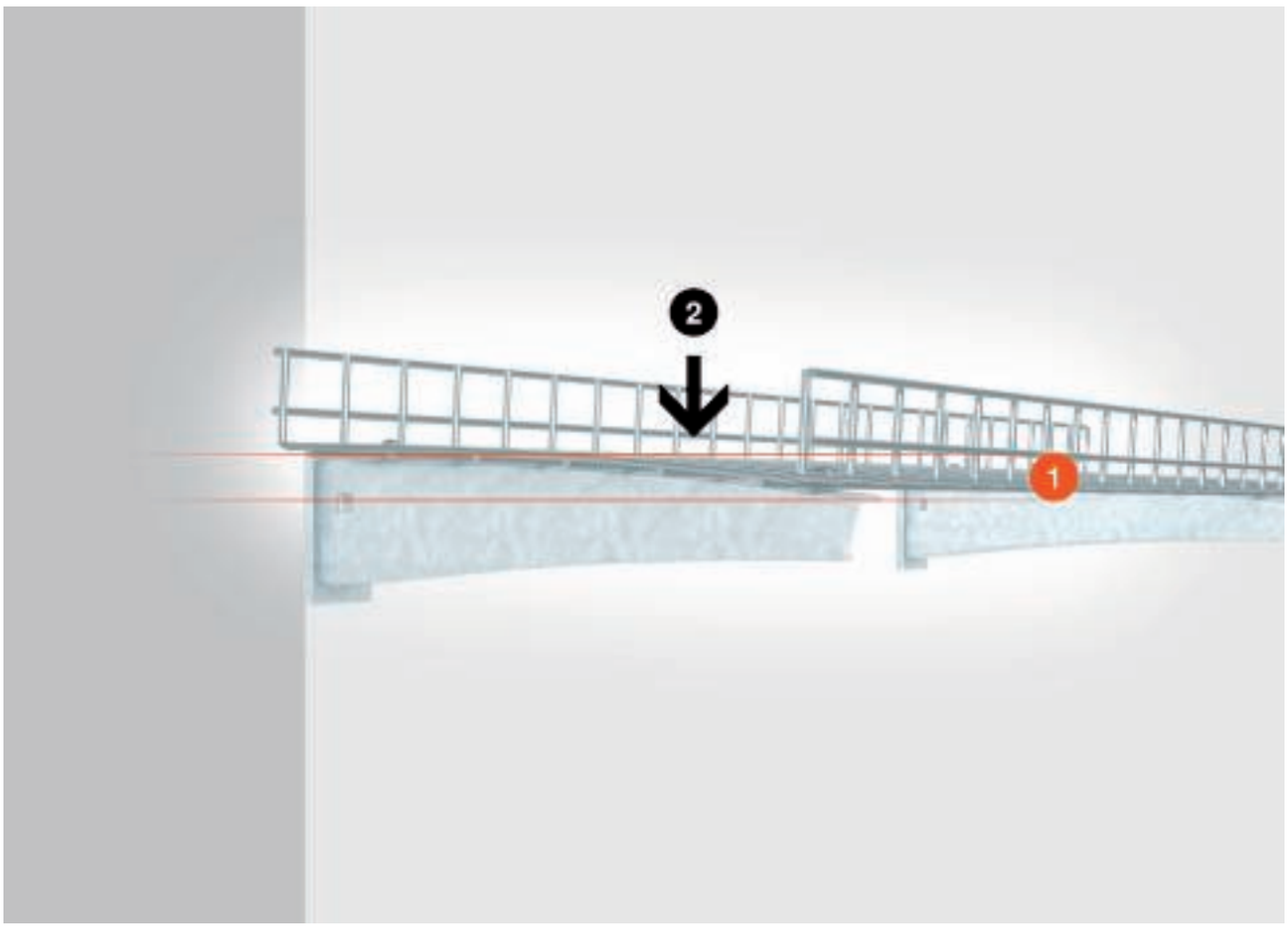


Information 5: W = Strut sag
To what extent does the load on a cable tray cause the strut to bend? This information is supplied by the blue curve (w) in millimetres (orientation values on the axis on the right-hand side of the diagram).

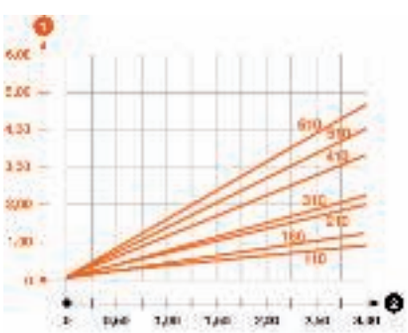
The course of the blue curve clearly shows how quickly the cable tray will sag as the support spacing increases. In our example, the bend at a support spacing of 2.25 m is shown, here approximately 12 mm.

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Which bracket can support which cable load?



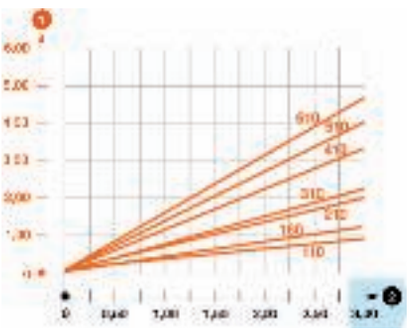
Key components of the OBO cable support systems are the installation components, in particular the brackets and suspended supports. They connect the cable trays and ladders to the wall and to the ceiling, and are thus an important construction element of the overall system. When calculating the load capacity of a cable support system, the brackets and suspended supports must not be forgotten. The test diagram is also useful in selecting the right products.



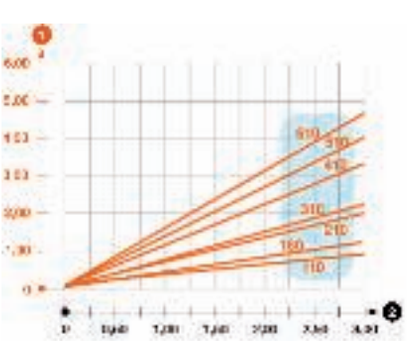
Load diagram, legend
1 = Bend in mm at the bracket tip
2 = Load in kN/m without man load
– = Load curves for the various bracket lengths

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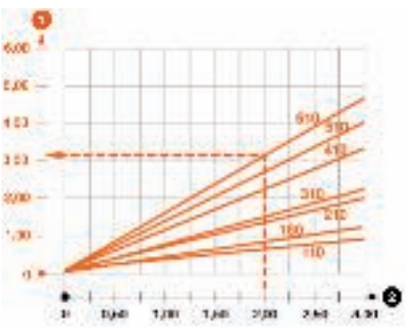
Which bracket can support which cable load?



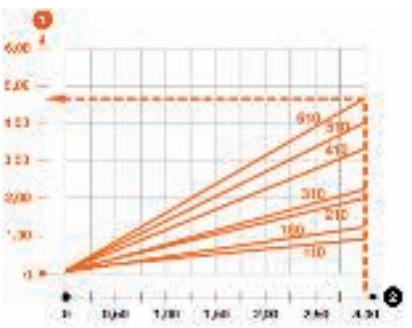
Information 1: Recommended maximum load of the brackets
The bracket is the part of the installation system upon which the cable tray or mesh cable tray is located. It is either directly connected to the wall or is connected to the ceiling using supports. The grey bar on the right edge of the diagram provides information on the maximum load capacity of the bracket.



Information 2: Load curves for all bracket widths
The bending of the bracket is dependent on its width, which, in our example, can range from 110 mm to 610 mm. The load curves are assigned to the appropriate bracket type.

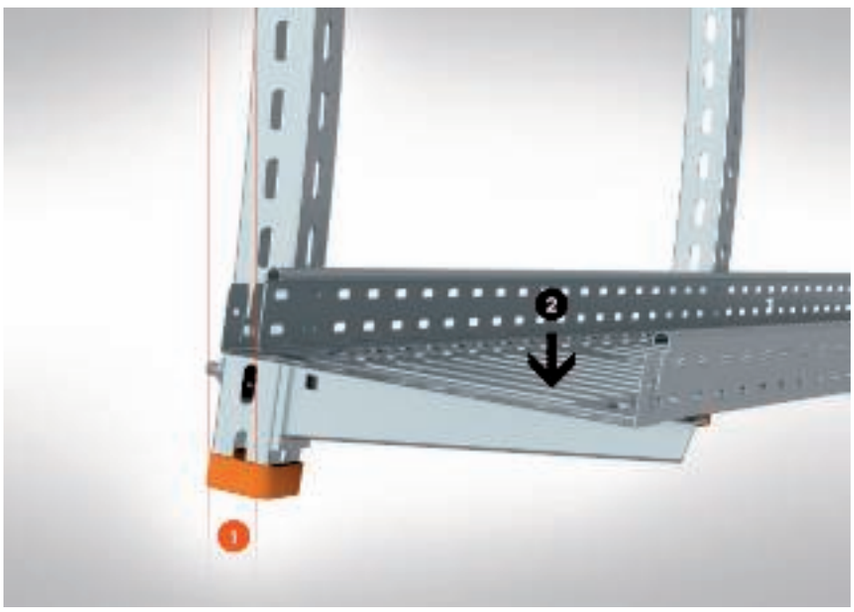


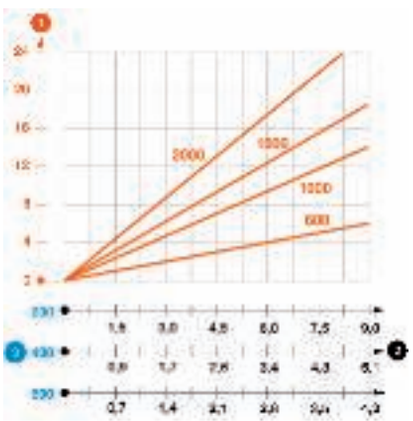
Information 3: Bending of the bracket tip at a specific load
The load curve in the diagram provides information on the bending of the boom tip at a specific load. In our example (dotted orange line), a 610 mm wide bracket with a load of 2 kN bends by approx. 3.1 mm. A basic rule of thumb is: The shorter the bracket, the less the bend will be.



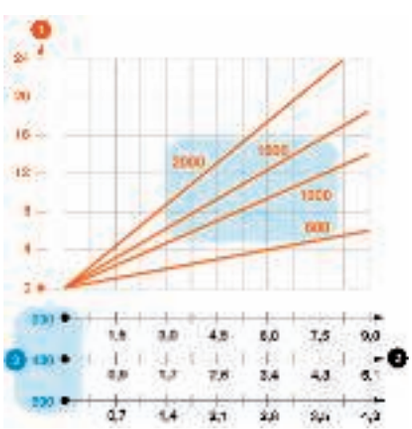
Information 4: Bending of the bracket tip at maximum load
The bending factor of the bracket at maximum load can also be seen in the diagram. In our example (shown in orange), the bend value for a 610 mm wide bracket at a maximum load of approx. 3.0 kN is approximately 4.5 mm. To minimise the bend, the centre of gravity of the cable load should be as close as possible to the wall or the support fastening.

Which support can support which cable load?

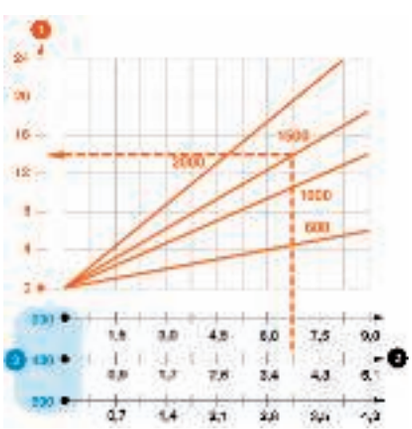




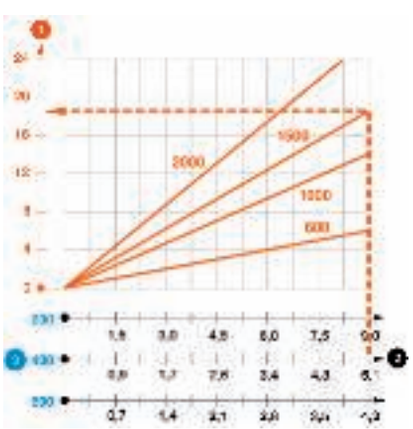
Load diagram, legend
1 = Bend in mm at the bracket tip
2 = Load in kN/m without man load
– = Load curves for the various bracket lengths



Information 1: Various support lengths and bracket widths
The load capacity of a cable support system is not just dependent on the width of a bracket, but also on the length of a suspended support. The load curves in the diagram provide information on the load capacity of a suspended support of length 600, 1,000, 1,500 or 2,000 mm, taking the bracket width into account.



Information 2: Calculation of the deflection for the example
The weight of the total suspended support/bracket/cable tray system causes an excursion of the suspended support from the vertical. The excursion value can be read off from the axis on the left edge of the diagram. In our example (blue background), a 1,500 mm long suspended support, together with a 400 mm wide bracket and a weight load of 4 kN at the end of the support, will produce an excursion of approximately 14 mm.



Information 3: Calculation of the excursion at maximum load for the example
The excursion of the suspended support at a maximum load can also be read off on the diagram. Our blue example shows an excursion of roughly 18 mm at the end of the support for a 1,500 mm long suspended support, in combination with a 400 mm wide bracket at a maximum cable load of approximately 5 kN.

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Mounting systems

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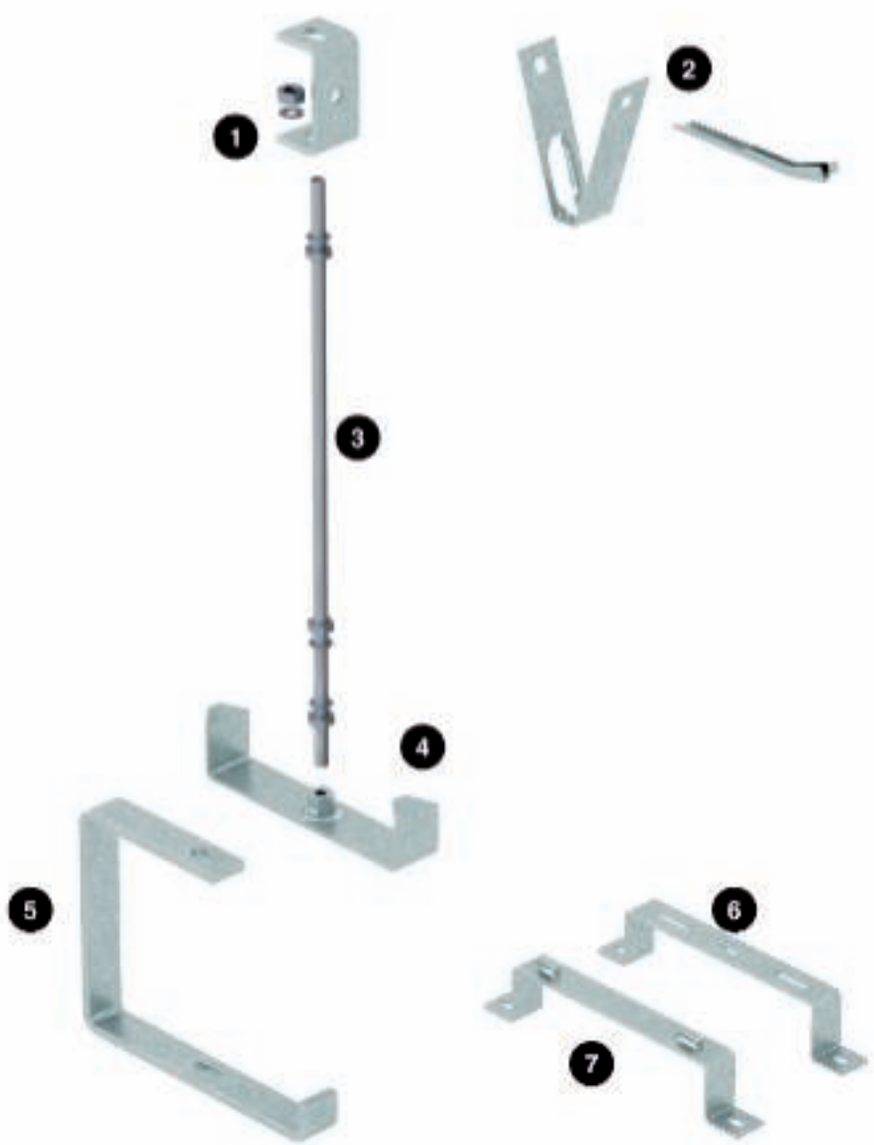
Installation principle, universal systems	42
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Mounting aid, I support and bracket systems	56
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Installation principle, universal systems

System components

1	Ceiling bracket
2	Ceiling bracket, trapezoidal
3	Threaded rod
4	Central suspension
5	Ceiling bracket
6	Stand-off bracket
7	Stand-off bracket



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Installation principle, TP systems

System components

1	TP support
2	TP support / wall and support bracket
3	Spacer
4	End cap



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System description, universal systems



The universal systems are used for small loads. Whether the installation is to be a ceiling fastening, wall fastening or as a floor stand-off: in the Universal systems, you can find functional fittings with matching system accessories for any application.
These suspension systems, which can be called basic installations, include centrally loaded ceiling clamps or trapezoidal fastenings, which are used with threaded rods and centre suspensions. When using central suspensions, the load should be even on both sides of the system. If an even load cannot be guaranteed, then other systems should be used.
The TP system is a range of light supports and brackets. This product range, which consists of TP suspended supports and brackets, can be used universally as ceiling and wall mounting.
On the following pages, you can select your preferred mounting variant from the installation diagrams shown and combine the corresponding articles in the order section.

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Mounting aid, universal systems



Application on the ceiling
Ceiling fastening for low loads on straight and sloping ceilings.



Installation of centre suspension
Installation of the central suspension MAH 60 on the ceiling using threaded rod 2078/M10 and ceiling bracket 12050. Maximum cable tray width 300 mm.



Universal mounting on the ceiling
The variable ceiling bracket, type DBV, allows threaded rod suspensions on straight and sloping ceilings.



Centre suspension with threaded rod
Direct centre suspension at low loads of a cable tray with threaded rod 2078/M10.



Installation of central hanger MAH 35
Insertion and alignment of the central hanger, MAH 35, in the cable tray.



Installation of central suspension MAH 60
Insertion and alignment of the central suspension, MAH 60, in the cable tray.



Threaded rod suspension RKSM > 400 mm
The threaded rod suspension of RKSM cable trays > 400 mm can take place using two threaded rods.



Cable ladder centre suspension with threaded rod
Installation of a cable ladder with central suspension MAHU and a threaded rod.



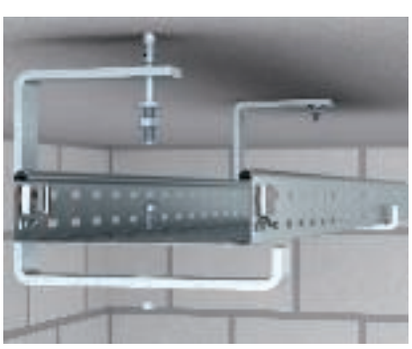
Trapezoidal plate application
Simple, quick fastening of a cable support system to trapezoidal metal roofs.



Installation of trapeze suspension
Installation of a cable tray on a trapezoidal ceiling using a ceiling bracket, type TPB 100 and central suspension, type MAH 60. Maximum cable tray width 300 mm. The trapezoidal fastening is mounted using the lock, type TPB R.



Threaded rod suspension with ceiling bracket
Ceiling mounting of a cable tray with AHB ceiling bracket and threaded rod 2078/M10. Maximum cable tray width 400 mm.



Direct fastening of the ceiling bracket
Direct mounting of the AHB ceiling bracket with anchor bolt on the ceiling. Maximum cable tray width 400 mm.



Ceiling mounting of TP wall and ceiling bracket
Universal mounting of the TPD wall and ceiling bracket on the ceiling (with DS 4 spacer). Maximum tray width 300 mm.



Installation of TP support with single-sided bracket fixing
Ceiling mounting of a TP support with spacer DS 4 and one-sided bracket mounting. Maximum tray width 300 mm.



Complete mounting of a TP system
Installation of the TP support with head reinforcement and double-sided bracket mounting and mounting directly on the wall.



Floor fastening at a distance
Installation of a cable tray at a distance using the stand-off bracket DBL. Maximum cable tray width 600 mm.



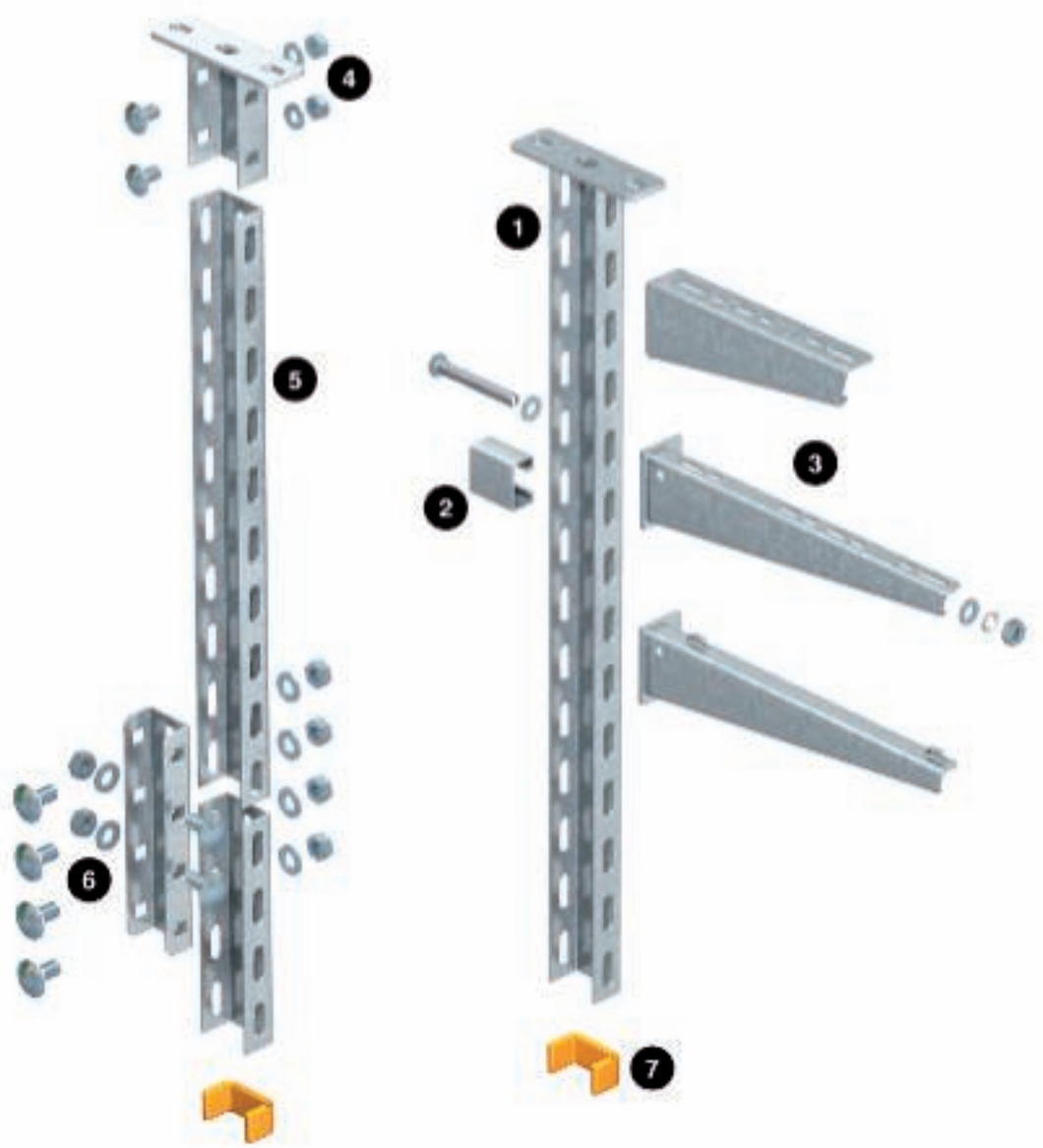
Stand-off of mesh cable trays
Floor stand-off of mesh cable trays with the stand-off bracket, type DBLG 20/... Screwless fastening of the mesh cable tray on the stand-off bracket using clamping lugs.

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Installation principle, U support US 3

System components

1	US 3 support
2	Spacer
3	Wall and support brackets
4	Head plate
5	US 3 support
6	U support connector
7	End cap

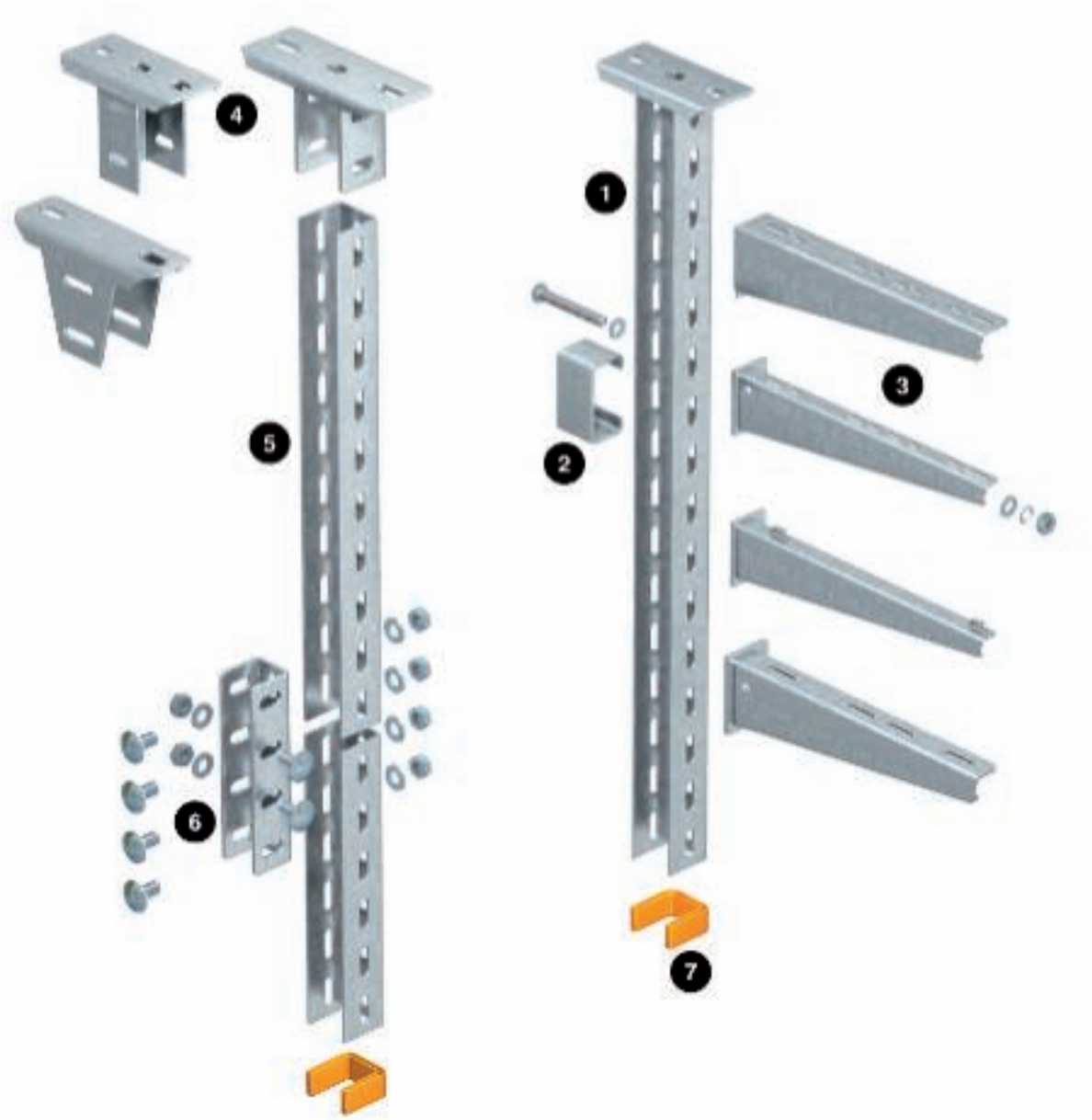


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Installation principle, U support US 5

System components

1	US 5 support
2	Spacer
3	Wall and support brackets
4	Head plate
5	US 5 support
6	U support connector
7	End cap

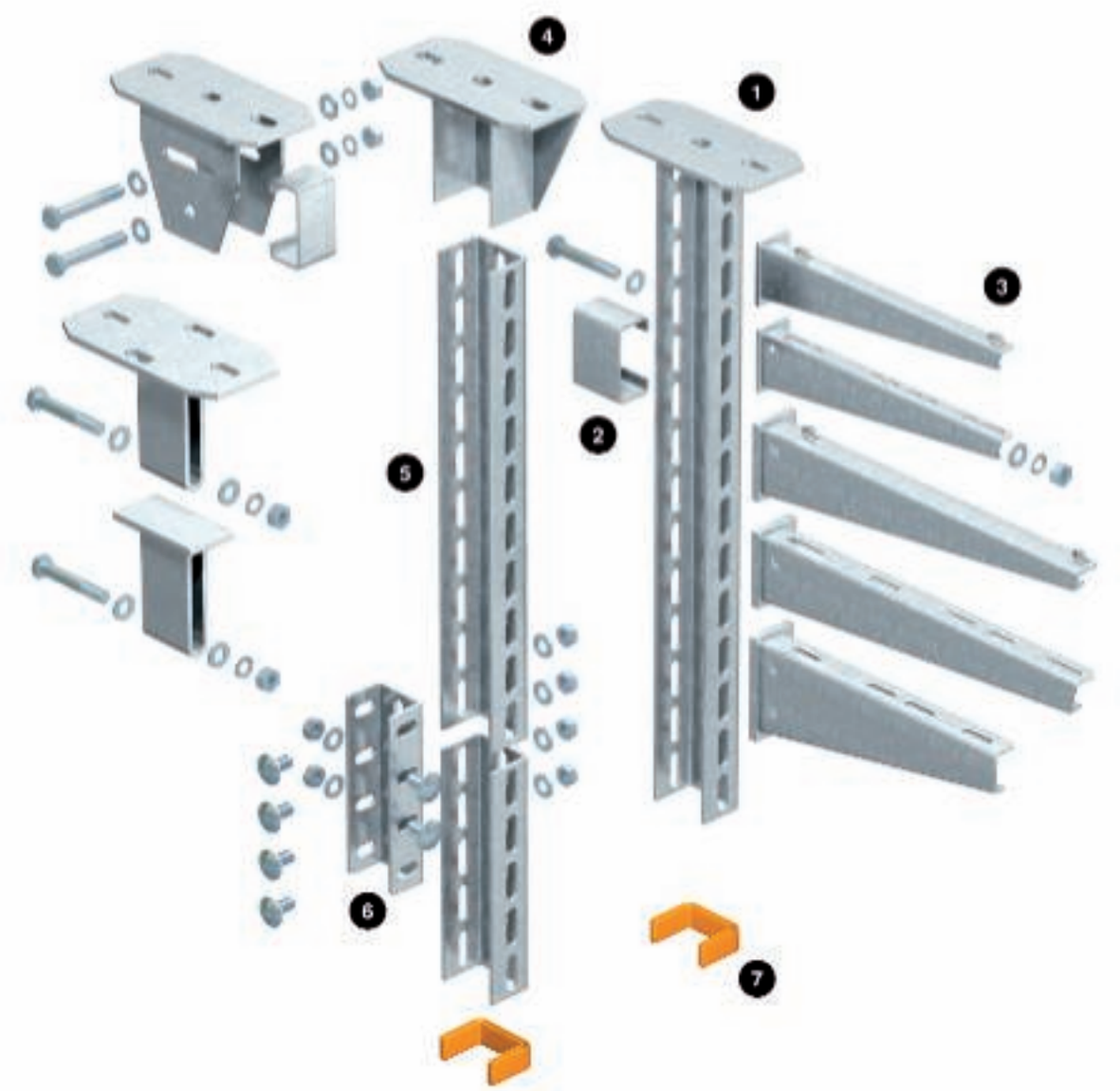


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Installation principle, U support US 7

System components

1	US 7 support
2	Spacer
3	Wall and support brackets
4	Heavy-duty head plate
5	US 7 support
6	U support connector
7	End cap



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System description, U support and bracket systems



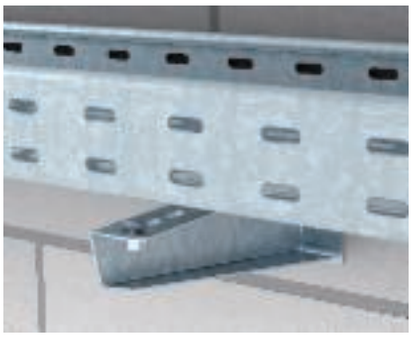
The perfectly matched U support family consists of US 3 (light-duty system), US 5 (medium-duty system) and US 7 (heavy-duty system). The U support range is particularly noted for its versatility. The U supports can be used as ceiling suspension, floor stand-off or as construction profiles.
Besides the U support family with comprehensive accessories, you can also find the wall and support brackets in this chapter. These can be fastened directly on the wall or on U supports. Classification takes place according to load capacity. The appropriate maximum load can be easily derived from the type of the different wall and support brackets MWA 12 (max. load 1.2 kN), AW 15 (max. load 1.5 kN), AW 30 (max. load 3.0 kN) and AW 55 (max. load 5.5 kN).
On the following pages, you can select your preferred mounting variant from the installation diagrams shown and combine the corresponding articles in the order section. You can find a comprehensive article description and additional information for the articles, such as load and anchor diagrams, which can help you when selecting the system.

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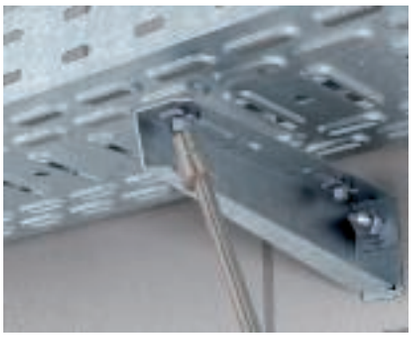
Mounting aid, U support and bracket systems



Wall mounting application
Direct fixing of wall and support brackets of type AW... on the wall.



Quick fastening of cable tray on bracket
Positioning the cable tray on the bracket.



Quick fastening of tray on bracket
Fixing of the cable tray on the bracket using quick connector.



Wall bracket, variable
Fastening of the variable wall bracket, type AWV, with wedge anchor to vaulted or sloping walls/ceilings.



Standard mounting of suspended support with wall bracket, single-sided without spacer
Cover fixing of a suspended support with single-sided bracket fixing. No spacer is required for widths up to and including 300 mm.



Standard mounting of support with wall and support bracket, single-sided with spacer
Cover fixing of a suspended support with single-sided bracket fixing. For widths of over 400 mm, we recommend using a spacer.



Standard mounting of support with wall and support bracket, double-sided
Cover fixing of a suspended support with double-sided bracket mounting.



Ceiling mounting
Standard mounting of U supports US 3 K, US 5 K and US 7 K on the ceiling with fastening of the wall and support brackets.



Head plate mounting
Mounting of the standard head plate to support and ceiling. Use with spacer DSK 25 (US 3), DSK 45 (US 5) or DSK 61 (US 7).



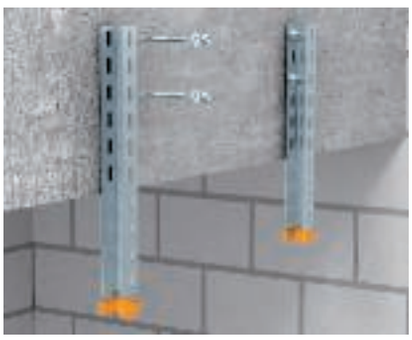
Adapter head plate, asymmetrical
Asymmetrical head plate KA-ASY to increase the load capacity for the combination with suspended supports, type US 7 K and IS 8 K.



Adapter head plate, symmetrical
Symmetrical head plate KA-SY to increase the load capacity for the conjunction with supports, types US 7 K and IS 8 K.



Traverse
Installation of U suspended supports US 3 K, US 5 K and US 7 K under the ceiling using wedge anchors and use of a trapeze, consisting of U profile US 3, US 5 or US 7.



U support wall mounting
U supports are installed on walls or girders using wedge anchors, directly through the system perforation in the U support.



U support connection
To connect U supports, use the appropriate U support connectors, types VUS 3, VUS 5 and VUS 7.



Installation of spacer
Installation of the spacer DSK 47 with US 5 supports or DSK 45 with US 7 supports in conjunction with a variable head plate KU 5 V or KU 7 VQP.



Variable head plate with US 3 support
Installation of the variable head plate, type KU 3 V on US 3 support.



Variable head plate
Fastening of the variable head plate KU 5 V to sloping concrete ceilings using wedge anchors and spacer DSK 47.



Variable head plate
Fastening of the variable head plate KU 7 VQP to sloping concrete ceilings using wedge anchors and spacer DSK 45.



45° adapter plate, concrete mounting
Installation of the 45° adapter plate, type KA-E, on a concrete wall. For additional support and implementation of trays at room corners.



45° adapter plate, steel clamping
Installation of the 45° adapter plate, type KA-E 45, on the steel girder using clamping angles or chuck jaws. For additional support of trays at room corners.



Direct girder clamping
Direct girder clamping a U suspended support using KWS clamping bracket. Route in longitudinal direction of steel girder.

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Steel clamping with C profile, route in longitudinal direction
U suspended support mounting, clamped to steel girder with C profile CPS 4 G and TKH-L-25 clamping claw. Route longitudinal to steel girder.



Steel clamping with C profile, route in transverse direction
U suspended support mounting, clamped to steel girder with C profile, type CPS, and TKH-L-25 clamping claw. Route transverse to steel girder.



Head plate mounting
Installation of the head plate using the example KU 7 AOX for direct welding on steel girders.



Cantilever beam on steel
U supports can be used as cantilever beams on steel girders with chuck jaws of type TKS-L-25. Use DSK spacers for safe functioning.



Clamp fixing of heavy-duty bracket
Clamp fastening of a heavy-duty bracket with clamping angles or clamping lugs on a vertical steel girder.



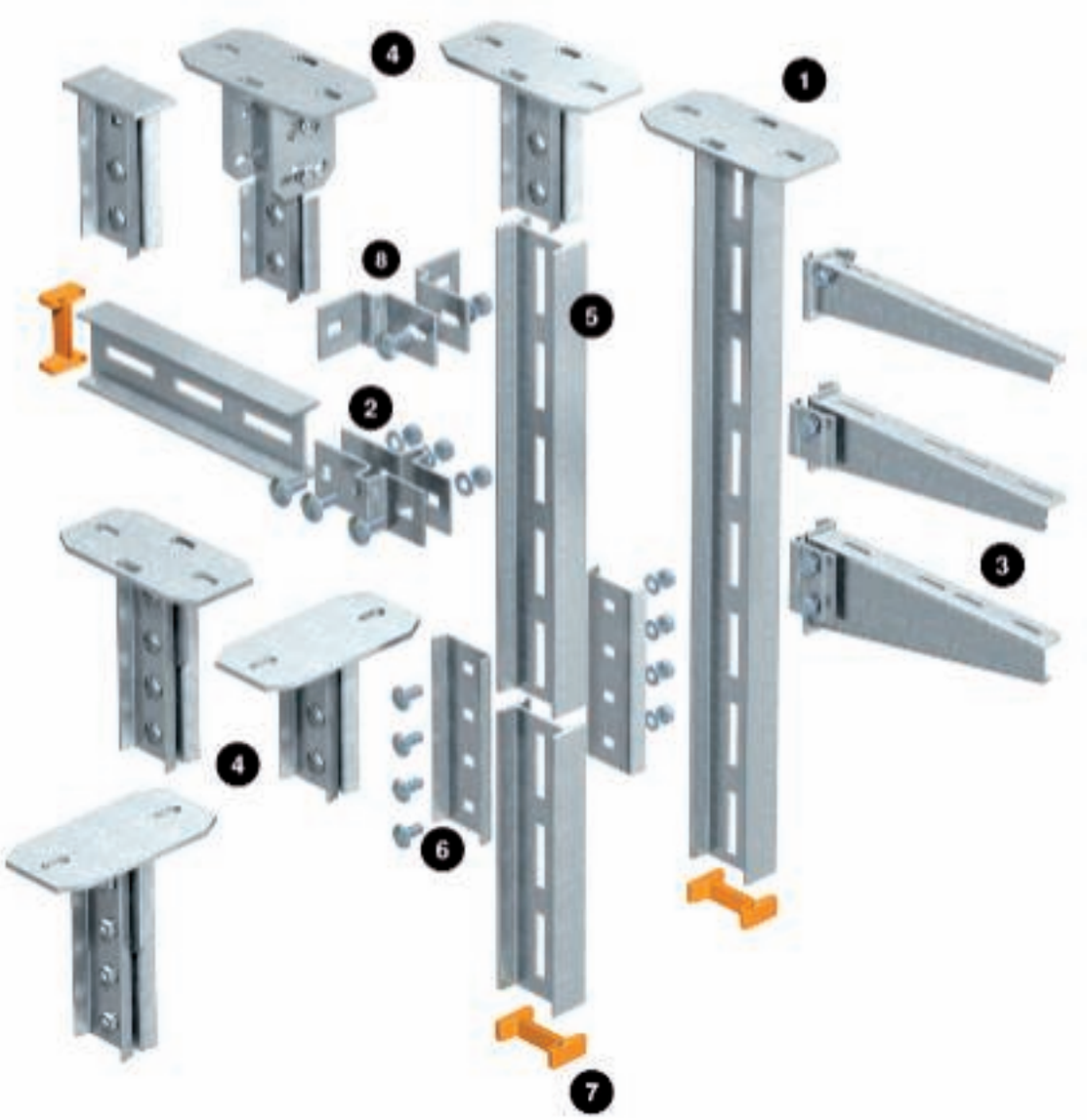
Complete mounting of a ceiling fastening
Illustration of complete ceiling mounting with cable trays.

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Installation principle, I support and bracket systems

System components

1	I support
2	Support strap
3	Support bracket
4	Head plate
5	I support
6	I support connector
7	End cap
8	Mounting angle



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System description, I support and bracket systems



The I support system from OBO Bettermann really comes into its own in situations where high loads must be carried, large distances must be bridged and difficult routes must be implemented. The I support system fulfils all the requirements of a heavy-duty cable mounting system. The high load capacities of all the system components permit the mounting of complex structures. The comprehensive range of head plates allows the implementation of all conceivable solutions. This heavy-duty system is used with large support spacings of wide span systems or for multi-layer setups of standard cable trays and cable ladder systems. The combination of I supports and support brackets of type AS 15, AS 30 and AS 55 form a perfectly matched product range, the height of which can be infinitely adjusted.
On the following pages, you can select your preferred mounting variant from the installation diagrams shown and combine the corresponding articles in the order section. You can find a comprehensive article description and additional information for the articles, such as load and anchor diagrams, which can help you when selecting the system.

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Mounting aid, I support and bracket systems



Application on the ceiling
Standard mounting of suspended supports to concrete ceilings using wedge anchors.



Head plate mounting
Fastening of the standard head plate, KI 8, for I suspended support to concrete ceilings using wedge anchors.



Head plate, variable (rotated through 90°)
Installation of the variable head plate, type KI 8 VLK, rotated through 90°, to sloping concrete ceilings using wedge anchors.



Variable head plate
Installation of the variable head plate, type KI 8 VQP, to sloping concrete ceilings using wedge anchors.



I support connection
Installation of the I support connector VIS 8 to connect IS 8 supports.



Bracket mounting
Installation of a three-layer cable support system on the concrete ceiling using support bracket mounting, AS 15, AS 30 and AS 55.



Adapter head plate, asymmetrical
Asymmetrical head plate KA-ASY to increase the load capacity for the combination with suspended supports, type US 7 K and IS 8 K.



Adapter head plate, symmetrical
Symmetrical adapter head plate KA-SY to increase the load capacity for the conjunction with supports, types US 7 K and IS 8 K.



Wall mounting, I support
Installation of an I support on the wall using mounting angles, type BW 80/55, and wedge anchors to accept multiple support brackets, type AS.



Special structure
Example of installing of a special structure, consisting of I supports (ceiling/wall mounting) with transverse profile and various support brackets, type AS.



Application on steel girder
Clamp fastening of supports on steel girders using various chuck jaws, lengthwise or transverse to the steel girder.



Direct girder clamping
Direct girder clamping an I support using heavy-duty chuck jaw, type TKS-S-30. Route in longitudinal direction of steel girder.

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Steel clamping with C profile, route in longitudinal direction
I support with welded head plate mounting, clamped to steel girder with C profile and TKH-L-25 chuck jaw. Tray route along steel girder.



Steel clamping with C profile, route in transverse direction
I support with welded head plate mounting, clamped to steel girder with C profile and TKH-L-25 chuck jaw. Tray route transverse to steel girder.



Head plate, variable (transverse)
Installation of the variable, transversely adjustable head plate, type KI 8 VLP, on rising or falling steel structures with profile rail, type CPS 5 G and clamping angles, type KWH.

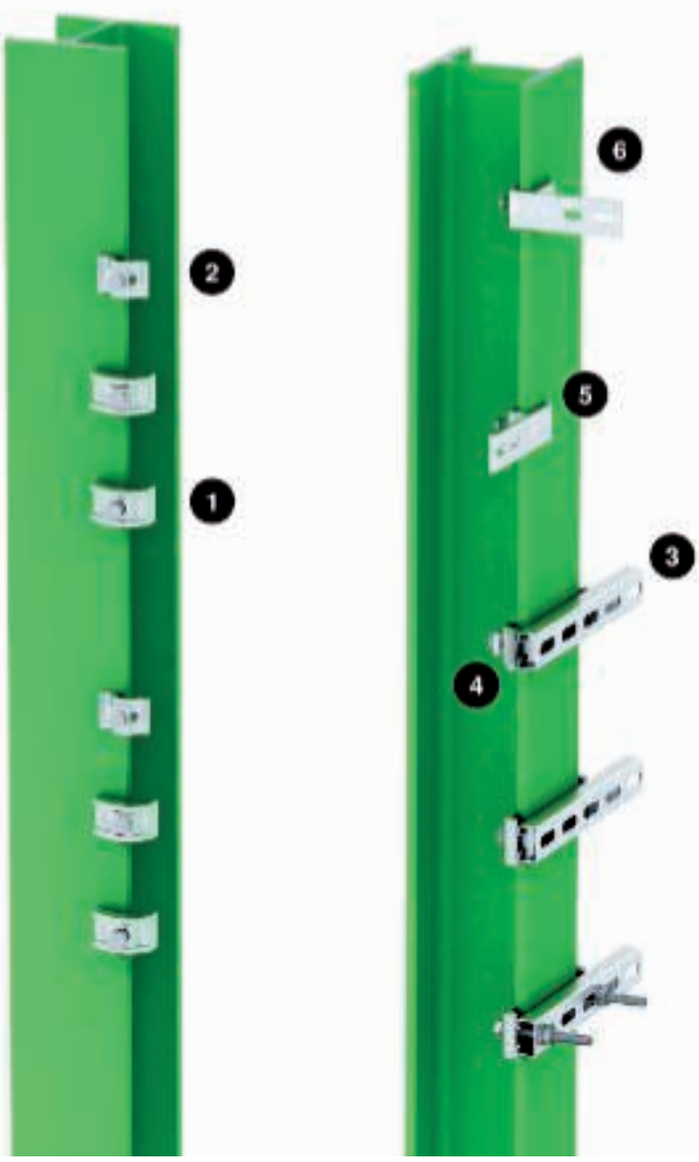
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Installation principle, beam clamp systems

System components

1	Chuck jaw, heavy-duty
2	Chuck jaw, light-duty
3	Profile rails
4	Clamping angle
5	Beam clamp, horizontal
6	Beam clamp, vertical





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System description, beam clamp systems



The clamp fastening systems with reduced installation times and work are a clear argument for the use of this system in all areas of professional electrical installations. Clamp fastening can be attached without difficult, often unpermitted drilling. The load range runs from light-duty clamping angles to heavy-duty chuck jaws.
The clamping lugs / clamping angles, type KL, KWH and KWS, and the chuck jaws, type TKH and TKS, permit excellent connections without drilling or welding, on account of the perfect matching to additional system articles.
On the following pages, you can select your preferred mounting variant from the installation diagrams shown and combine the corresponding articles in the order section.

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Mounting aid, clamp fastening systems



Application on horizontal steel girder
Clamp fastenings using clamping angles and chuck jaws on horizontal steel girders.



Application on sloping steel girder
Clamp fastenings using clamping angles and chuck jaws on sloping steel girders.



Steel clamping, C profile rail
Fastening of a C profile, type CPS 4 G or CPS 5 G, to steel girder using clamping angles, type KWS.



Direct girder clamping
Direct girder clamping an I support using chuck jaw (heavy-duty), type TKS-S-30. Route along steel girder.



Clamp fastening with addition C profile
Use of an additional C profile rail, type CPS, for wider steel girders. Route along steel girder.



Clamping transverse to steel girder
Use with two C profile rails for tray mounting transverse to the steel girder.



Cantilever beam on steel
Installation of U support as cantilever beam on steel girder. Fastening with clamping angles or chuck jaws depending on load. Fastening with spacers, type DSK.



Cantilever beam with support
Cantilever beams made of U support construction clamped to steel girder for installing supports.



Clamp fastening on vertical steel girder
Installation of the adapter plate, type KA-AW, on the vertical steel girder using clamping angle or chuck jaws. Wall brackets of type AW are fixed to the adapter plate, using the hexagonal bolt SKS 12 x 40 GF.



45° adapter plate, steel clamping
Installation of the 45° adapter plate, type KA-E 45, on the steel girder using clamping angles or chuck jaws. For additional support of trays at room corners.



Vertical clamp fastening
Clamp fastening of a heavy-duty bracket with clamping angles or clamping lugs on a vertical steel girder.



Vertical clamp fastening
Installation of a mesh cable tray vertically on a steel girder, mounting with a beam clamp BFK and clamp GKS 50.

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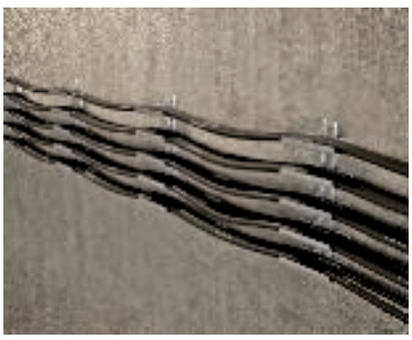
Horizontal clamp fastening
Installation of AZ channel using BFK beam clamp in a longitudinal direction on the steel girder. Maximum cable tray width 100 mm.

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Mounting aid, Cable support bracket system



**The cable support brackets are used in areas with limited mounting space
Such as. Underground or utility tunnels.**



Factory pre-assembled cable support brackets help in a fast installation.



Cable support brackets for single installation to serve a flexible connection of cables.

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Fastening systems

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Installation example, wedge anchors



The majority of metal spreading anchors from OBO Bettermann have a European Technical Assessment ETA. Some versions have shock approval from the Federal Office for Civil Protection in Bern, Switzerland. Most metal spreading anchors have also been tested in terms of fire protection for a fire resistance time of up to 120 minutes. You can find detailed information regarding the permitted loads (also in the event of a fire) and the installation conditions that must be observed in the corresponding approvals.

System benefits:

- Wide range of application areas thanks to variety of versions, load classes and material qualities
- Quick and easy installation
- High tensile loads and shear loads
- Small edge and axis spacings
- Can be used indoors and outdoors (depending on material)

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Mounting preparations wedge anchors



Drilling an anchor hole
Drilling of the anchor hole according to the anchor approval information for the drill hole diameter and the drill hole depth.



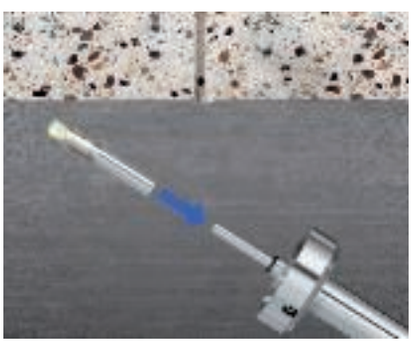
Blowing out of the drill hole
Removing dust from the drill hole by blowing it out several times.



Drilling an anchor hole in the ceiling
Drilling of the anchor hole in the ceiling according to the anchor approval information for the drill hole diameter and the drill hole depth.



Blowing-out of the drill hole
Removing dust from the drill hole by blowing it out several times.



Placing the bolt anchor BZ IG
The wedge anchor BZ-IG is placed on the setting tool BZ-IGS. It must be ensured that the thread size of the setting tool fits to the corresponding anchor bolt.



Hammering the bolt anchor BZ IG
Hammering the bolt anchor BZ-IG with the appropriate setting tool. Subsequently, the component to be mounted can be secured.



Mounting of threaded rod BZ IG
Mounting of a threaded rod into the wedge anchor BZ-IG. The direct mounting of a component with a hexagonal screw is also possible.



Application of torque
Fastening of the threaded rod by tightening the hexagonal nut with the specified torque in the approval.

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Tightening torques



Different tightening torques apply when mounting a cable support system. Please note that the specified torques are only intended as rough, non-binding guide values (see VDI 2230)!

Tightening torques of bolts with metric thread made of stainless steel

Thread	Resistance grade 50	Resistance grade 70	Resistance grade 80
M6	3.8 Nm	8.2 Nm	10.9 Nm
M8	9.2 Nm	19.6 Nm	26.2 Nm
M10	19 Nm	39 Nm	53 Nm
M12	31 Nm	67 Nm	89 Nm
M14	50 Nm	106 Nm	142 Nm
M16	76 Nm	162 Nm	216 Nm
M18	105 Nm	225 Nm	299 Nm
M20	148 Nm	316 Nm	422 Nm

Tightening torques of bolts with metric thread

Thread	Grade 5.6	Grade 6.9	Grade 8.8	Grade 10.9	Grade 12.9
M6	3.9 Nm	8.5 Nm	10 Nm	14 Nm	17 Nm
M8	9.8 Nm	21 Nm	25 Nm	35 Nm	41 Nm
M10	19.6 Nm	41 Nm	49 Nm	69 Nm	83 Nm
M12	33.4 Nm	72 Nm	86 Nm	120 Nm	145 Nm
M14	54 Nm	115 Nm	135 Nm	190 Nm	230 Nm
M16	82 Nm	180 Nm	219 Nm	295 Nm	355 Nm
M18	114 Nm	245 Nm	290 Nm	400 Nm	485 Nm
M20	163 Nm	345 Nm	410 Nm	580 Nm	690 Nm

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Mounting aid, wedge anchors



Nail anchor, type N, with threaded connection
Nail anchor, type N, with M6 threaded connection, usable in cracked or non-cracked standard concrete C20/25 to C50/60.



Nail anchor, type N-K, with drive-in head
Nail anchor, type N-K, with drive-in head, usable in cracked or non-cracked standard concrete C20/25 to C50/60.



Wedge anchor, type BZ
Wedge anchor, type BZ, for fastening heavy-duty anchorings in cracked or non-cracked standard concrete C20/25 to C50/60, suitable for push-through mounting, with M8, M10 or M12 thread.



Wedge anchor, type BZ-IG
The wedge anchor BZ-IG with internal thread is approved for normal drill holes which are not undercut. Within the scope of the European Technical Assessment ETA-99/0010 for cracked and non-cracked concrete, a system comprising nut and washer and a standard threaded rod can be used, as well as hexagonal bolts and counter-sunk head screws.



Drive-in tie bolt, type E
Drop-in anchor, type E, with M8, M10, M12 internal thread. To accept small loads, approved for multiple fixings in cracked and non-cracked concrete of non-load-bearing systems.



Heavy-duty anchor, type SZ
Heavy-duty anchor, type SZ, with M12 thread connection for fastening components with high loads, approved for cracked and non-cracked standard concrete C20/25 to C50/60.



Hollow core anchor, Easy type
Cavity ceiling tie, type Easy, with M8 or M10 internal thread. For use in stressed concrete core slab ceilings.

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Installation principle, injection anchor



The VMS Plus injection mortar system is particularly suitable for fire-protection fastening in hollow brick, concrete, calcareous limestone, sand-lime brick and masonry. The non-spreading connection is created through the use of the plastic wire sleeve and a threaded anchor rod. The components are tested and approved for a fire resistance period of 90 minutes.
The maximum load capacity depending on the fire resistance period and the fastening substrate is documented accordingly in the available fire protection certificate. Although the load capacity of the injection mortar system is below the load capacity when cold, it is completely sufficient for fireproof fastening of the various components of the different routing types.

System benefits

- Injection tie tested and approved for fire
- Determined load capacity according to fire resistance period
- Use in calcareous limestone, masonry, hollow brick and sand-lime brick
- Various dimensions for the different routing components and applications
- Proven fastening with plastic wire sieves

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Mounting preparations, Injection anchor



Drilling
Making a hole of suitable diameter



Cleaning of the drill hole
Blow out the hole for cleaning with compressed air



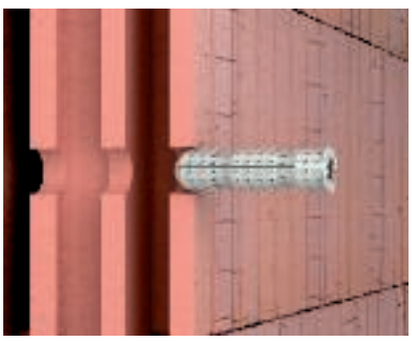
Cleaning with steel wire brush
Automated cleaning of the hole with steel wire brush. The cleaning process with blow and brush must be carried out twice.



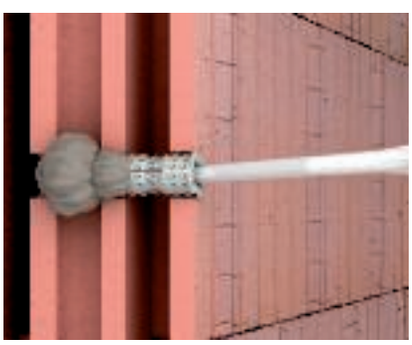
Application of the injection mortar
Pressing the injection mortar into the hole



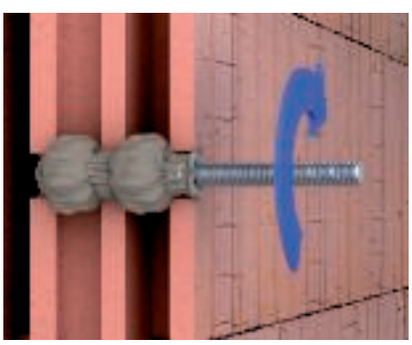
Use in hollow brick
Drill the hole in the hollow brick according to the selected anchor size and then clean it.



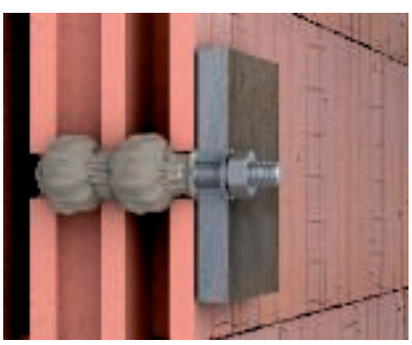
Mounting preparations
Insert the fitting plastic sieve sleeve in the drill hole.



Applying the injection mortar
Press in the injection mortar from the cartridge from the base of the drill hole to the opening. In so doing, draw the point back slowly.



Inserting the anchor rod
Attach the anchor rod in the filled wire sleeve up to the set marking. The mortar pushes through the openings of the wire sleeve, forming a closure.



Mounted component, hollow brick wall
Mount the component with a washer and nut on a hollow brick wall. Comply with the tightening torque in the approval.

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Installation principle, screw anchors



Screw anchors MMS, MMS-ST and HMS-KS from OBO Bettermann offer optimum fastening options in solid masonry types. The various dimensions and head shapes provide installation options for the different routing components. The wedge anchors are screwed directly into the drill hole. There is no need for an additional anchor. No spreading forces develop and mounting near masonry edges is not required. You can find detailed information in the corresponding approvals.

System benefits:

- Quick and easy installation
- High level of safety
- Can be loaded immediately
- Torque control not required
- Mechanical setting is possible without any problems
- Fire protection-tested

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Mounting aid, screw anchors



Drilling an anchor hole
Drilling of the anchor hole according to the anchor approval information for the drill hole diameter and the drill hole depth.



Blowing out of the drill hole
Removing dust from the drill hole by blowing it out several times.



Screw-in anchor, type MMS
Screw anchor MMS with pan head for direct installation without anchors. Suitable for use in concrete and different types of masonry.



Wedge anchor, type MMS10
Wedge anchor MMS10 with hexagonal head for direct installation without additional anchors. Suitable for use in concrete and different types of masonry.



Screw anchor, type MMS-ST
Screw anchor MMS-ST with M6 thread and hexagonal head for direct installation without additional anchors. Suitable for use in concrete and different types of masonry.



Screw anchor, type HMS
Screw anchor HMS with countersunk cone head for direct installation without additional anchors. Suitable for use in concrete and different types of masonry.



Concrete screw, type SNAKE
Screw anchor SNAKE with internal thread M8, M10 and M12 for direct mounting using the setting tool SN-BIT M8/M10/M12. Suitable for use in cracked and uncracked concrete.

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Cable tray systems

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Mounting aid, cable tray system RKSM, MKSM, SKSM 86

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The future of cable tray systems has begun. The Magic cable tray systems

Simplified mounting
The lighter structure produces a considerable benefit for overhead mounting and at great heights. The Magic cable tray system is the world's first completely screwless tray system. All the system components and tray types are equipped with the innovative Magic connection - from the tray through to the fitting. The combination of both advantages makes mounting simpler and quicker.



Load capacity increased
Compared to previous systems, Magic cable trays offer greater stability. The complex 3D structure and the different material structure around the laser seam produce previously unachieved load values.

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Improved life cycle assessment
The use of the new, highly innovative and patented manufacturing method DUO-Plus leads to a considerably optimised CO_2 balance for the entire product family. This technological leap saves 2,600 tonnes of CO_2 emissions per year.

Improved cable ventilation and unimpeded water drainage

Improved cable ventilation
The completely new base structure allows perfect cable ventilation. According to VDE 0298-4, a tray made up of more than 30% holes is considered a perforated tray. This means that lower reduction factors must be taken into account during cable dimensioning, possibly allowing the use of cables with smaller cross-sections.



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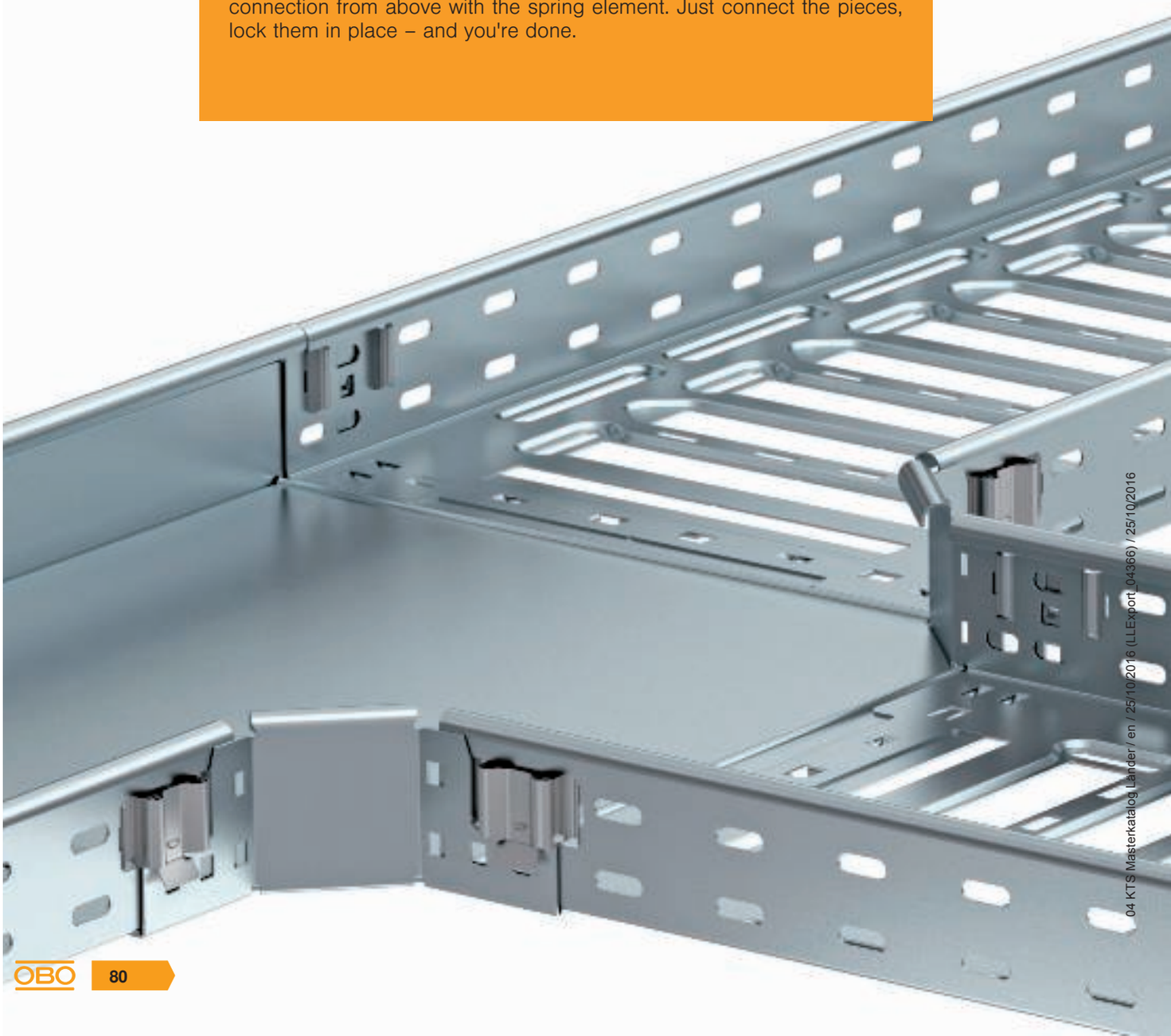


Water run-off guaranteed
All the perforated Magic systems of types MKSM, SKSM and IKSM of width 200 mm and wider are suitable for safe installations under sprinkler systems - in accordance with the requirements of the VDS. The new base structure allows perfect water run-off.

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Consistently thought through

Lockable fittings
Even faster. Even simpler. All the classic fittings, such as bends, T pieces, mounting/branch pieces and intersections are equipped with the trusted, lockable Magic connector. The cable tray is run into the fitting connection from above with the spring element. Just connect the pieces, lock them in place – and you're done.



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Variable connectors
The perfect end. The variable screwless Magic connector bridges joints of up to 50 mm. This permits perfect connections under any conditions. In addition, the connectors permit large radii of up to 10° in the route, for example in tunnel construction.



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Perfectly matched: the modular Magic system

Side height 35 mm

RKSM 35



Side height 60 mm

RKSM 60



MKSM 60



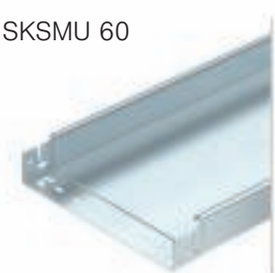
SKSM 60



MKSMU 60



SKSMU 60



IKSM 60



Side height 85 mm

MKSM 85



SKSM 85



MKSMU 85



SKSMU 85



Side height 110 mm

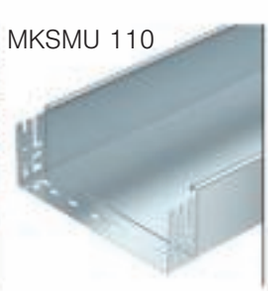
MKSM 110



SKSM 110



MKSMU 110

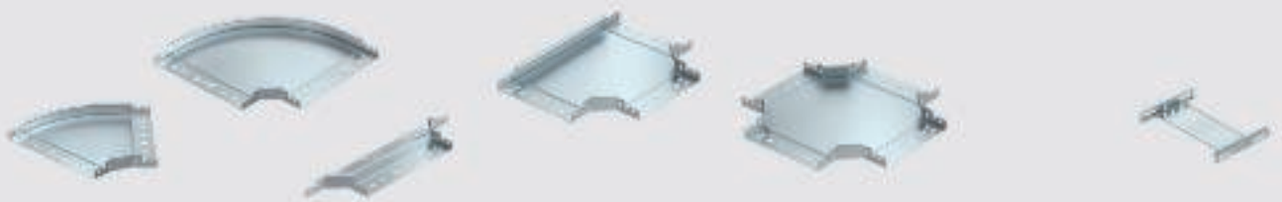


SKSMU 110

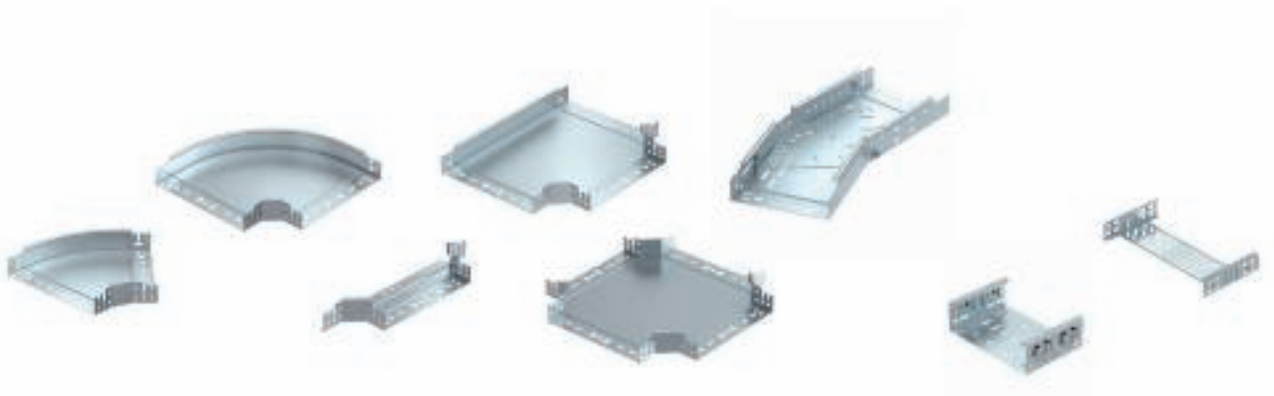


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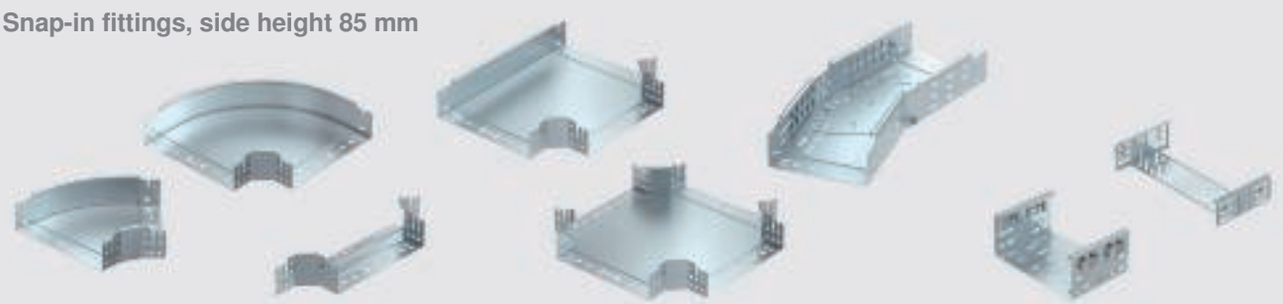
Snap-in fittings, side height 35 mm



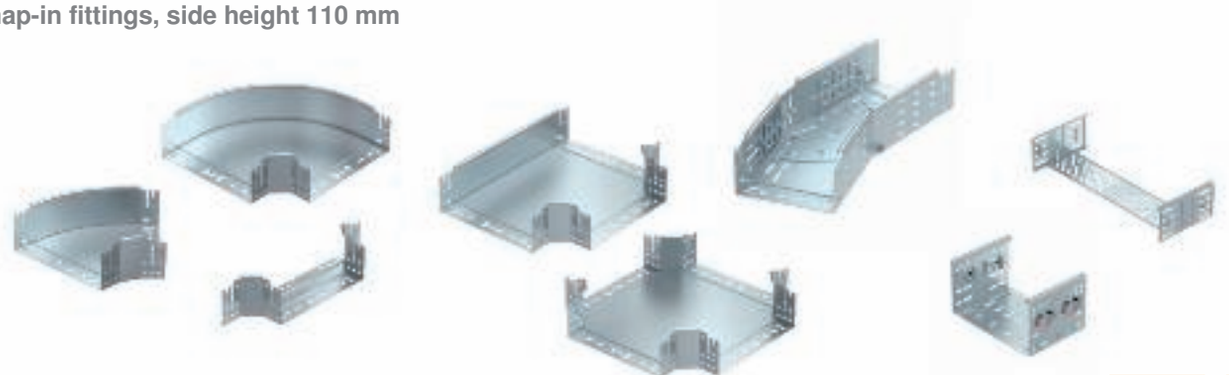
Snap-in fittings, side height 60 mm



Snap-in fittings, side height 85 mm



Snap-in fittings, side height 110 mm

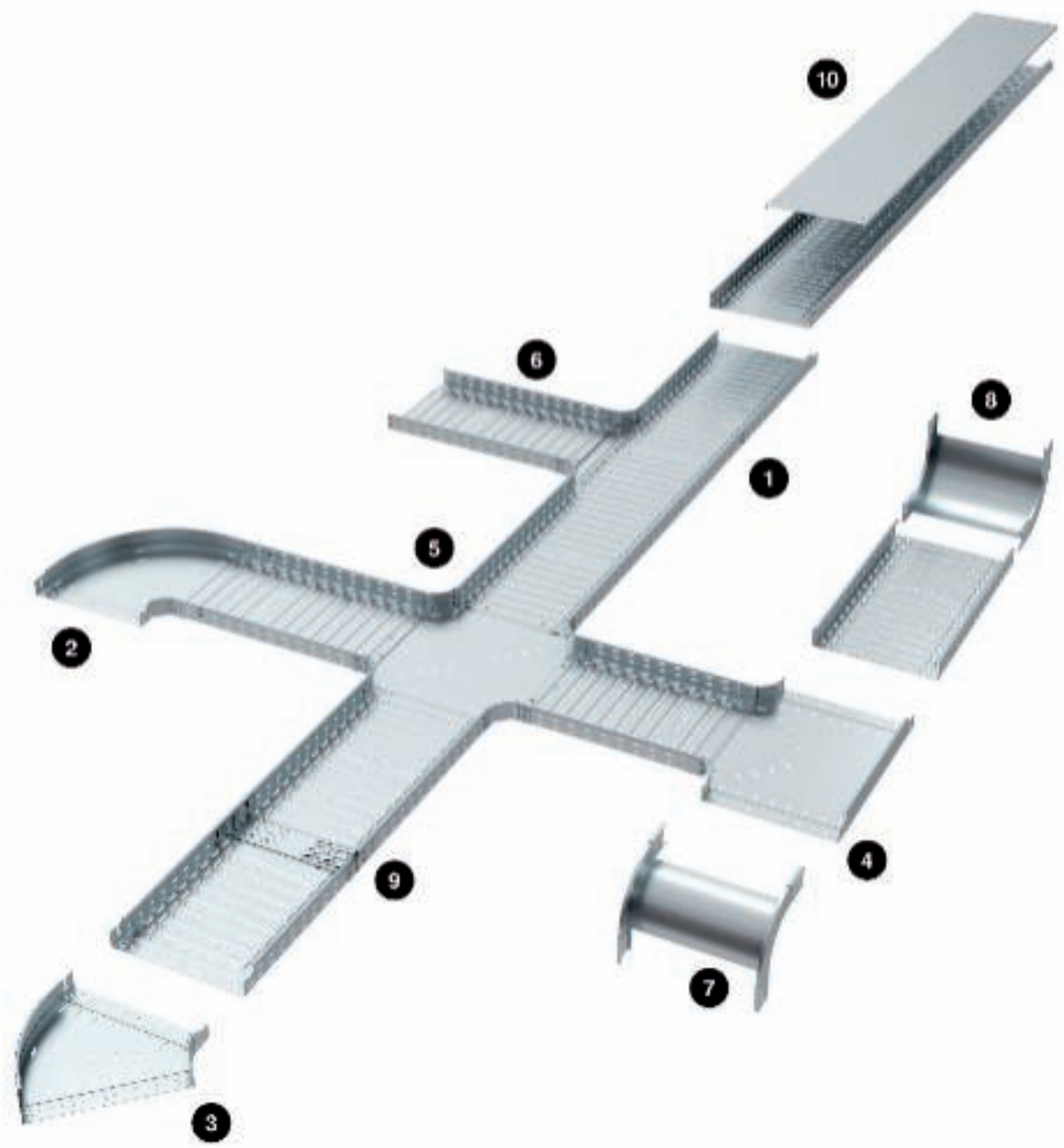


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Installation principle, cable tray systems

System components

1	RKSM cable tray
2	90° Magic bend
3	45° Magic bend
4	Magic T branch piece
5	Magic cross-over
6	Magic Tee
7	90° vertical bend, falling
8	90° vertical bend, rising
9	Magic straight connector set
10	Cover with turn buckle



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System description, cable tray system RKSM



The RKS-Magic® cable tray system permits even faster straight connection of the cable trays. The innovative, screwless straight connector can be mounted in the blink of an eye. Just connect the ends of the cable tray, lock them in place – and you're done! The long-lasting, static straight connectors can be permanently stabilised by bending the connection flaps. The RKS-Magic® cable tray is available with the side heights 35 and 60 mm. A comprehensive range of fittings with bends (45° and 90°), tees, add-on tees and cross-overs completes the system. 90° bends and adjustable vertical riser (rising/falling) are available for vertical changes of direction. When installing fittings, always plan additional supports.
Besides the various fittings, the system also includes all types of connectors (straight, angle and adjustable connectors) and additional accessories such as barrier strips, joint plates, mounting plates and covers.
You can find detailed mounting examples and article descriptions on the following pages. The RKS-Magic® cable tray is tested for function maintenance. You can find comprehensive information on this in our new catalogue for BSS fire protection systems.

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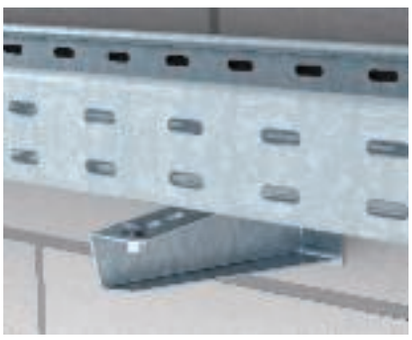
Mounting aid, cable tray system RKSM



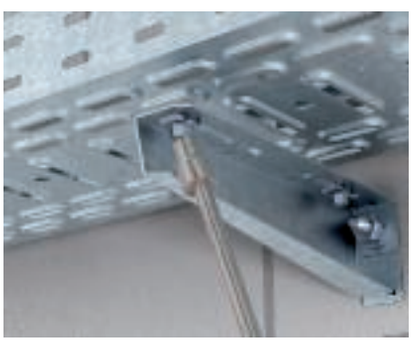
Centre suspension application
Direct centre suspension with threaded rod, type 2078/M10. This mounting variant is possible for RKS cable trays of width 50 to 200 mm.



Ceiling mounting application, U support and bracket
Standard mounting of a cable tray with support, type US.., and suitable support bracket, type AW.



Wall mounting application with bracket
Standard cable tray mounting on the wall with wall and support brackets.



Quick fastening of cable tray on the bracket
The quick fastening is pushed upwards and turned through 90°. After locking, the quick fastening is fastened permanently by tightening it.



Straight connection, cable tray interconnection
The straight connection is created by simple connection of the cable trays. Please observe the mounting direction.



Straight connection, cable tray interconnection
The ongoing cable tray is inserted from above from the existing sleeve opening.



Straight connection, cable tray interconnection
The optimum straight connection is confirmed by an audible click. Then use a screwdriver, to turn over the connection lugs in the bottom – and you're done!



Straight connection, cable tray interconnection
It is possible to turn over the connection flap in the floor of the cable tray using a normal screwdriver.

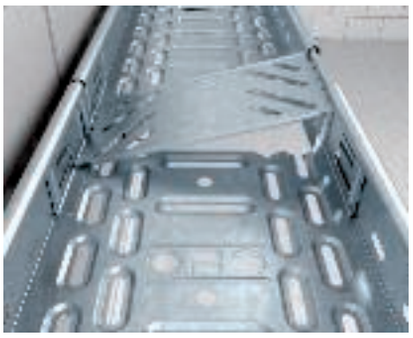


Slackening the connection
Of course the connection can be loosened again. To do this, simply push a screwdriver under the spring element. This releases the lock function.

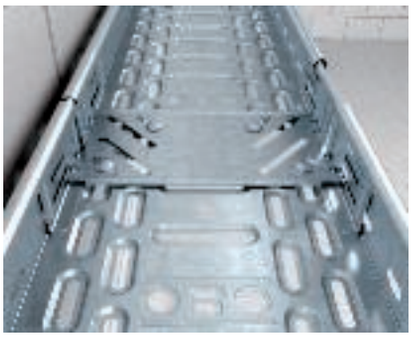
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Magic KTSMV straight connector set
Cable tray connector set with quick fastening for straight, screwless connection of cable trays and fittings. The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.



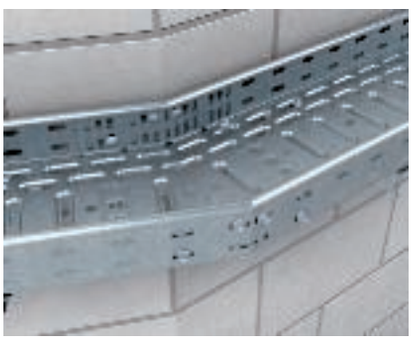
Mounting of Magic KTSMV straight connector set
The straight connector set Magic KTSMV is used for cut ends. Simply clamp the two side sections in the side rail and push the corresponding joint plate down until it has locked in place, and you're done.



Mounting of Magic KTSMV straight connector set
To strengthen the connection, we recommend screwing on the joint plate for widths of more than 400 mm.



Floor fastening
Floor fastening at a distance with stand-off bracket, type DBL.



Horizontal angle connection of cable trays
Horizontal angle connection of cable trays for brackets created during construction and cut cable tray ends.



Vertical adjustable connection of cable trays
Vertical adjustable connection of cable tray for construction-side height jumps of any angle.



Width change and end closure
Illustration of a width change through the installation of the reducer. This component allows the implementation of an end closure of cable trays.



Mounting of Magic bend
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.



Mounting of Magic mounting/branch add-on tee
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.

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Mounting of Magic vertical add-on tee (bottom view)
Vertical mounting of the add-on tee as lengthwise funnel. Perforation in the cable tray is created on site. For widths > 400 mm, please order connectors separately.



Mounting of Magic vertical add-on tee (top view)
Vertical mounting of the add-on tee as lengthwise funnel. Perforation in the cable tray is created on site. For widths > 400 mm, please order connectors separately.



Mounting of Magic Tee
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.



Mounting of Magic cross-over
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.



90° bend (rising/falling)
The 90° vertical bend is pushed over the rail of the cable tray and bolted with truss-head bolts, FRSB M6 x 12 mm. The cover is placed on loosely and fastened using the incoming cable tray lid.
The cover clamp DKU can be used for additional fastening.



Installation of rising adjustable vertical bend
Adjustable vertical bend to bridge height offsets or when changing from horizontal to vertical. The adjustable vertical bend is fastened to the cable tray directly using the adjustable connectors.



Installation of falling adjustable vertical bend
Installation of the adjustable vertical bend, falling, to bridge height differences and changes from the horizontal to the vertical.



Installation of bottom end plate
The bottom end plate is fastened to the end of the cable tray. It is used to protect outgoing cables.



Mounting plate with quick fastening
Fastening of the mounting plate, type MP, on the side rail of the cable tray. The mounting plate can be fastened to the rail with quick connectors, and permanently fastened using truss-head bolts of type FRSB 6x12 mm.

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Universal mounting plate
The MP UNI mounting plate is fastened on the side rail of the cable tray using a truss-head bolt.



Installation of cover with turn buckle.
Cover with turn buckles are fastened by turning the turn buckle through 90°. Clamp fastening takes place under the rolled side rail of the cable tray.



Screwless cover fastening with cover clamp
Screwless cover mounting takes place with covers and the cover clamps, type DKU. The cover clamp is simply fixed in the perforation of the cable tray.



Installation of cover for fitting
The fitting cover is installed using turn buckles. To fit it, turn the turn buckle through 90°.



Edge protection strip for plate ends
The edge protection strip can be used to cover the edges of plates. When selecting the strip, please take the appropriate plate thickness into account.



Screwless barrier strip mounting
Screwless mounting of the barrier strip TSG ... with clamping piece KS KR. The barrier strip can be run over the joint without machining and can be connected without bolts using the TSGV barrier strip connector.



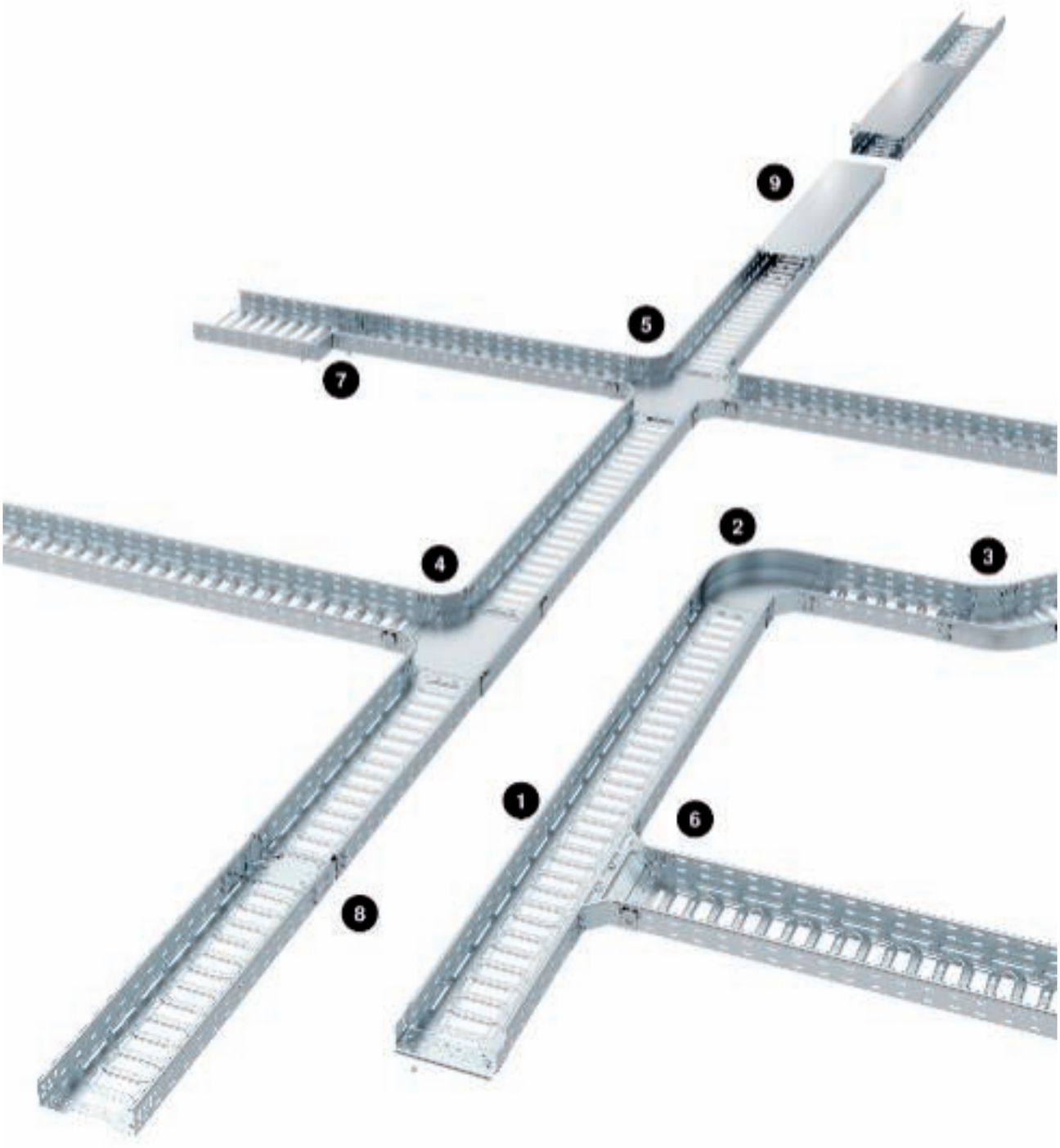
Screwed barrier strip mounting
Screwed barrier strip fastening of the barrier strip, TSG 60, with truss-head bolts M 6x12. The barrier strip can simply be run over the joint and connected without bolts using the barrier strip connector TSGV.

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Installation principle, cable tray system MKSM, SKSM

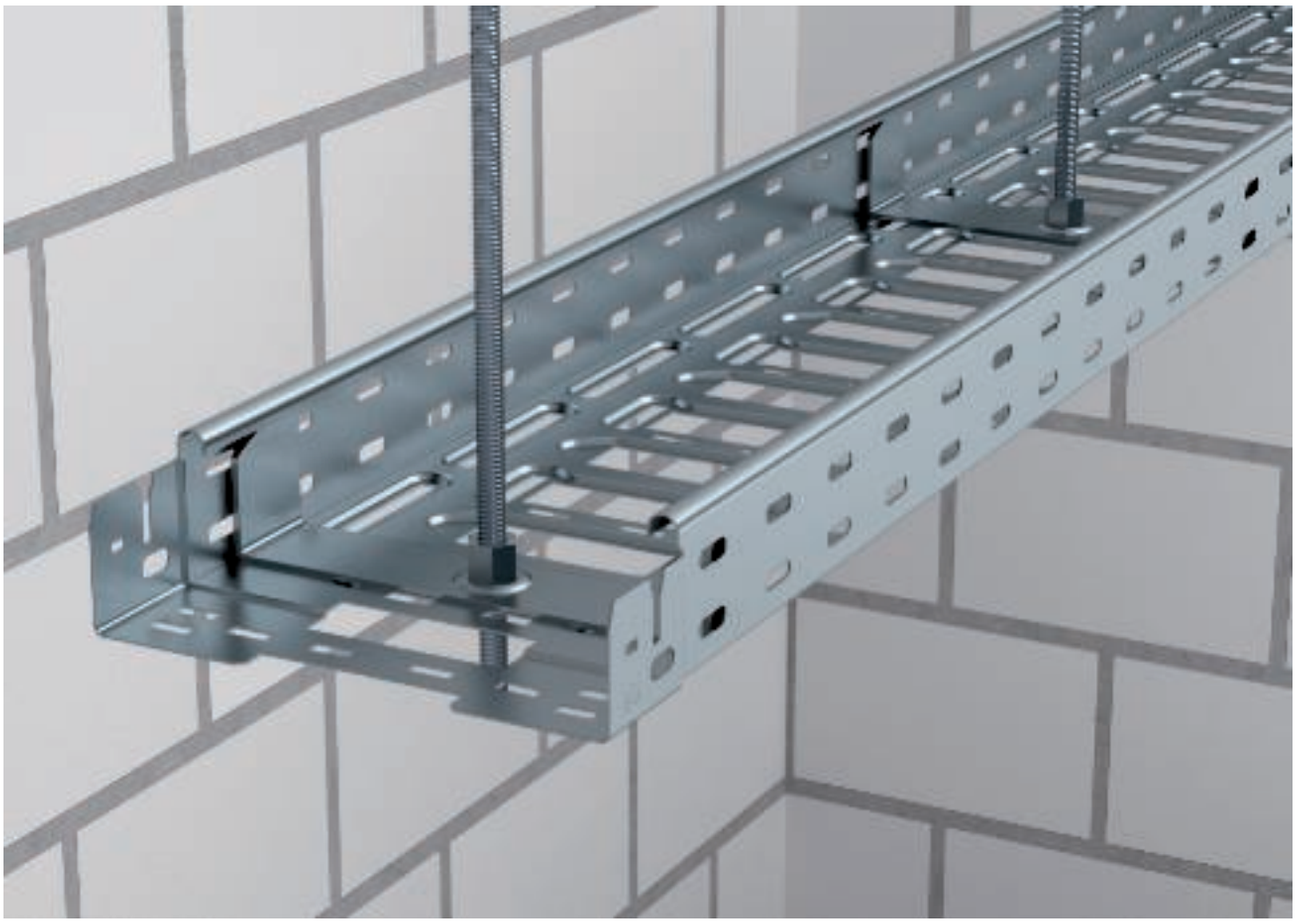
System components

1	Cable tray MKSM / SKSM
2	90° Magic bend
3	45° Magic bend
4	Magic Tee
5	Magic cross-over
6	Magic add-on tee
7	Reducer / stop-end
8	Magic straight connector set
9	Cover with turn buckle



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System description, cable tray system MKSM, SKSM



The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range with suitable system components can create perfect solutions to any task. No matter whether used in dry inner areas or in aggressive atmospheres: Different surface versions and materials ensure safe corrosion protection. Side heights of 60, 85 and 110 mm are available. Due to the high hole proportion of 30% and more, the perforated cable trays MKSM and SKSM of widths of 200 mm or greater are ideally suited for use beneath sprinkler systems. The IKSM cable tray also has large openings in the side rail, which can be used for cable entries or exits.
The complete system is supplemented by connectable, screwless fittings with Magic connection. The system also includes all types of connectors and additional accessories such as barrier strips, joint plates, mounting plates and covers.
You can find detailed mounting examples and article descriptions on the following pages.

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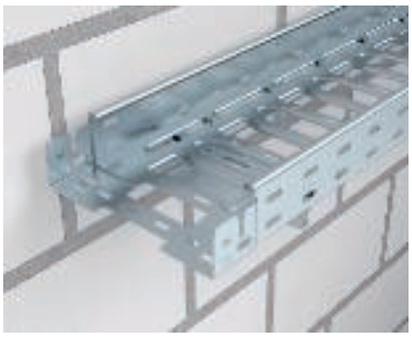
Mounting aid, cable tray system MKSM, SKSM



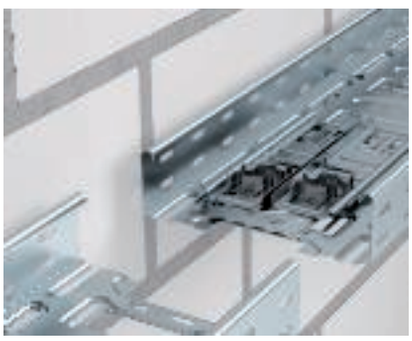
Centre suspension application
Centre suspension of the cable tray systems MKSM, SKSM and IKSM with a central hanger, type MAH, and threaded rod 2078/M10.



Ceiling mounting application
Ceiling mounting of a cable tray with support and wall and support bracket.



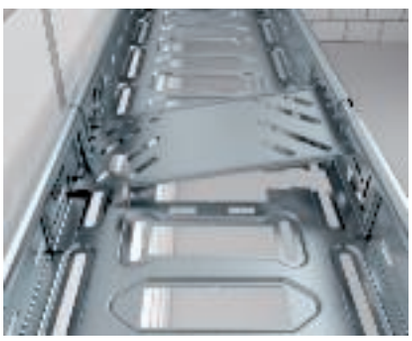
Wall mounting application with bracket
Standard mounting of a cable tray on the wall with wall and support brackets.



Magic KTSMV straight connector set
Cable tray connector set with quick fastening for straight, screwless connection of cable trays and fittings. The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.



Mounting of Magic KTSMV straight connector set
Simply clamp the two side sections of the connector set in the side rail.



Mounting of Magic KTSMV straight connector set
Insert the corresponding joint plate, push it down and simply lock it in place. To strengthen the connection, we recommend screwing on the joint plate for widths of more than 400 mm.



Mounting of Magic KTSMV straight connector set
Correctly used KTSMV straight connector set.

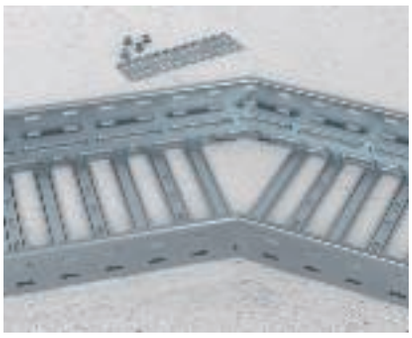


Creating a change of direction by cutting the cable tray
By cutting a cable tray any change in direction of 0°- 90° can be produced. The interface is fixed at an angle connector. First, remove the centre bars from the future intersection, e.g. using an angle grinder.Deburr carefully with an angle grinder deburring cut edges carefully.

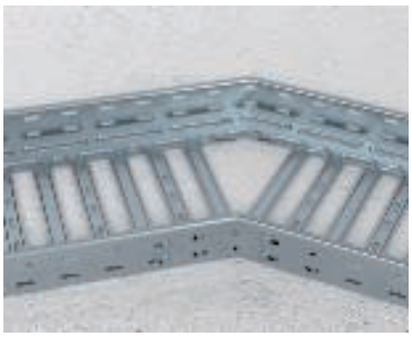


Creating a change of direction by cutting the cable tray
Determine the angle and cut the cable tray as shown in such a way that the opposite rail is not damaged. In addition, on the opposite spar cut the notch in the round-shaped edge spar. Deburring cut edges carefully.

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Creating a change of direction by cutting the cable tray
Bend the cable tray and fix the cut rail with an angle connector, type RWVL.



Creating a change of direction by cutting the cable tray
The correctly mounted angle connector produces a stable, load-bearing connection.



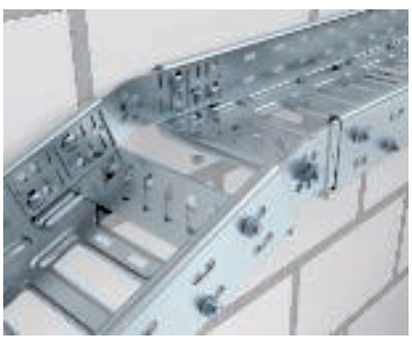
Creating a change of direction by cutting the cable tray
You can also create this change of direction with two separate cable trays. In this case, use two angle connectors to fix the cable trays.



Creating a change of direction by cutting the cable tray
Combine the cut trays and fix them from inside with two angle connectors, type RWVL.



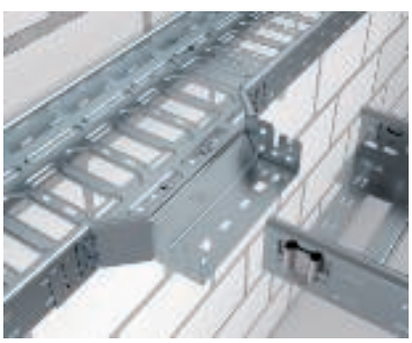
Creating a change of direction with variable Magic bend
The variable Magic bend, type RBMV..., can be used to install infinitely variable direction changes of 0°– 90° to the route.



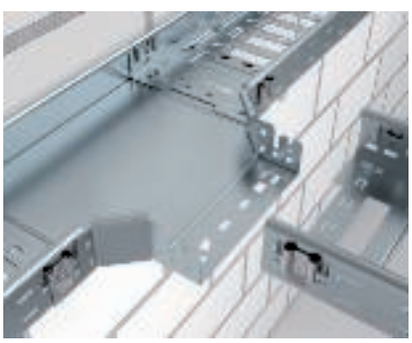
Vertical adjustable connection of cable trays
Vertical adjustable connection of cable tray for construction-side height jumps of any angle.



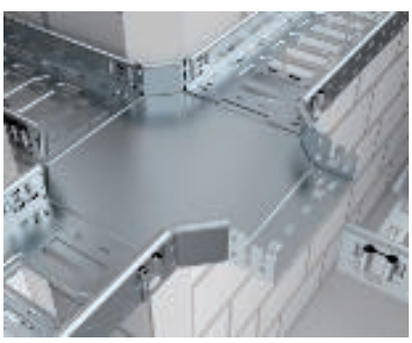
Mounting of Magic bend
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.



Mounting of Magic add-on tee
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.



Mounting of Magic Tee
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.

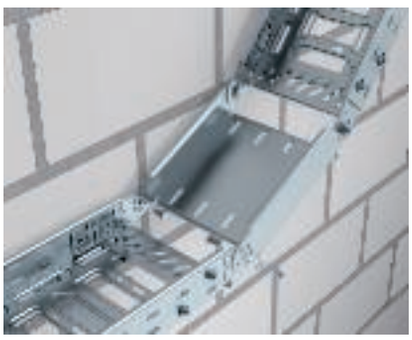


Mounting of Magic cross-over
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.



90° bend (rising/falling)
90° bend, rising or falling, for the creation of simple vertical changes of direction.

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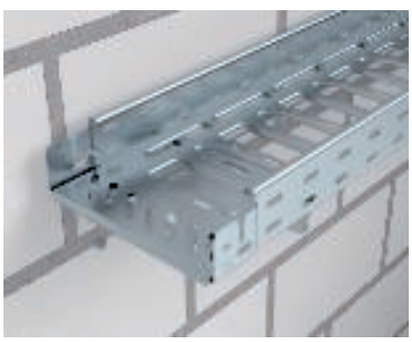
Installation of adjustable vertical bend element
Installation of the adjustable vertical bend element for the creation of adjustable bends. The adjustable vertical bend element is connected to the cable tray using adjustable connectors.



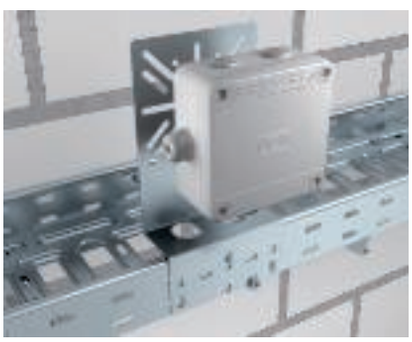
Installation of rising adjustable vertical bend
Adjustable vertical bend to bridge height offsets. The adjustable vertical bend is connected with to the cable tray using the adjustable connectors.



Screwless cover mounting
Screwless installation of the cover, type DRLU, on a cable tray using the cover clamp, type DKU. The cover clamp locks in the top hole of the side rail.



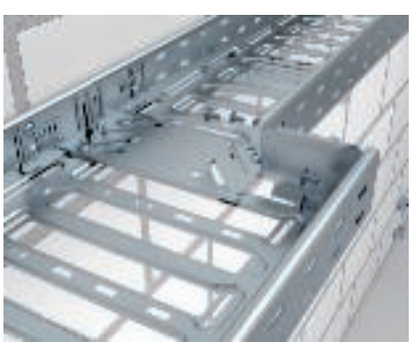
Installation of bottom end plate
Fastening of the bottom end plate, type BEB, to protect the cables.



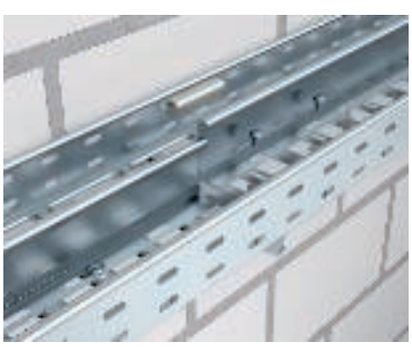
Mounting plate with quick fastening
Fastening of the mounting plate, type MP, on the cable tray. The mounting plate can be fastened to the rail with quick connectors, and permanently fastened using truss-head bolts of type FRS B.



Universal mounting plate
Fastening of the mounting plate, type MP UNI, on the cable tray.



Installation of reducer / stop-end
The reducer / stop-end plate component is used as closure and to reduce the width of cable trays.



Barrier strip mounting with screw connection
Screwed barrier strip fastening of the barrier strip, TSG 60, with truss-head bolts M6 x 12. The barrier strip can simply be run over the joint and connected without bolts using the barrier strip connector TSGV.

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Cable tray systems

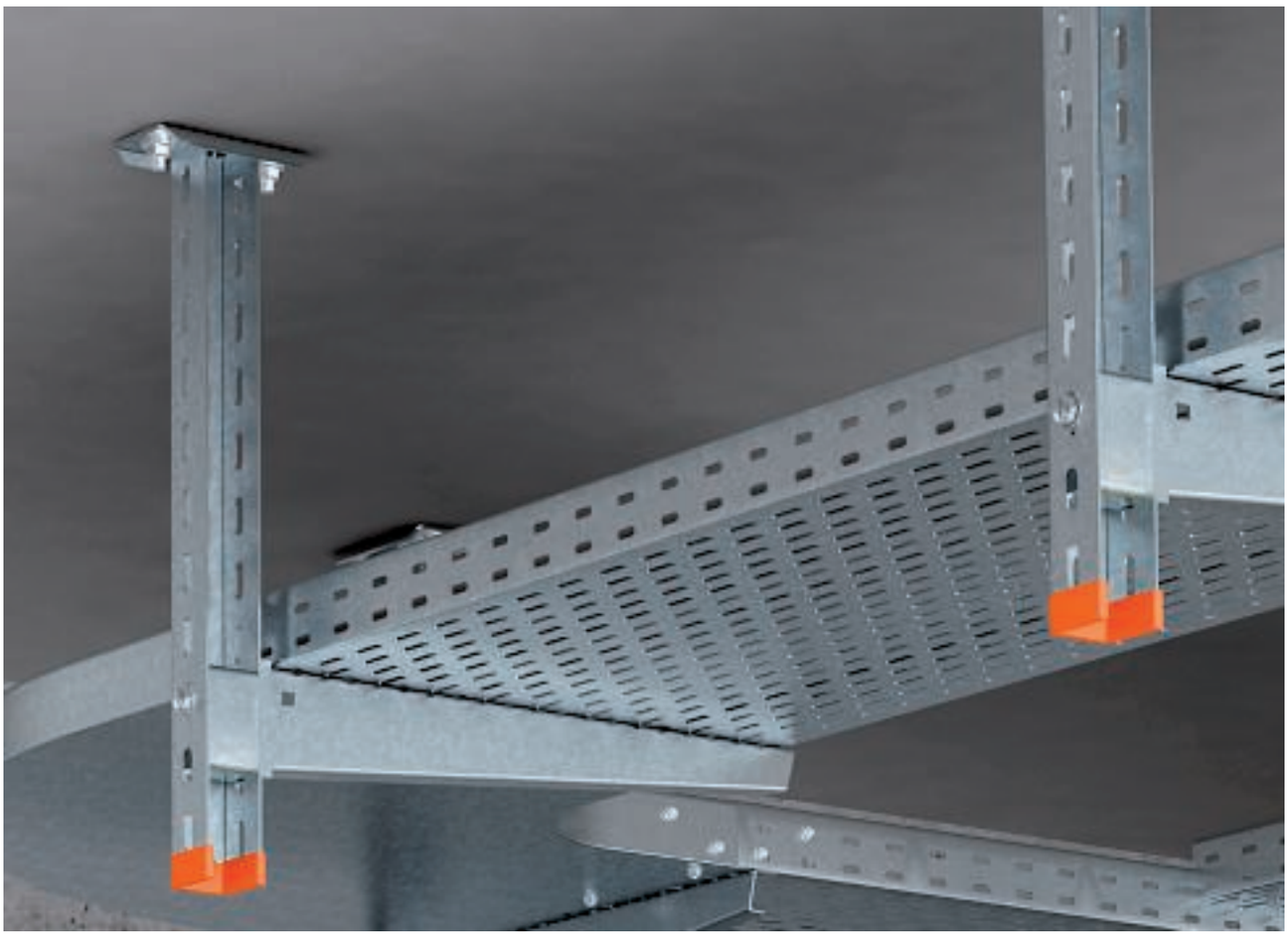
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Mounting aid, cable tray system MKS, SKS, DKS, IKS 99



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System description, cable tray system MKS, SKS



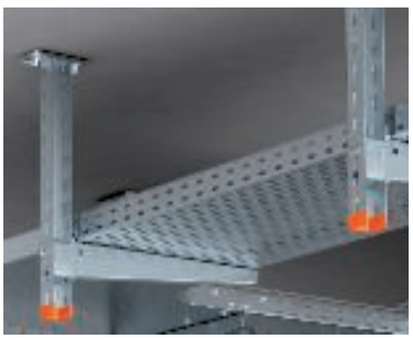
The cable tray is suitable for universal cable routing.
From low-voltage cabling to power supplies, from data cables to telecommunications networks.
A full product range with suitable system components can create perfect solutions to any task.
No matter whether used in dry inner areas or in aggressive atmospheres: Different surface versions and materials ensure safe corrosion protection.
Side heights of 35, 60, 85 and 110 mm up to the special cable tray systems DKS and IKS with 30% perforations and large entries and exits are available.
When installing fittings, always plan additional supports.
Besides the various fittings, the system also includes all types of connectors and additional accessories such as separating retainers, joint plates, mounting plates and covers.
You can find detailed mounting examples and article descriptions on the following pages.
You can find comprehensive information on the use of function maintenance in our new BSS fire protection systems catalogue.

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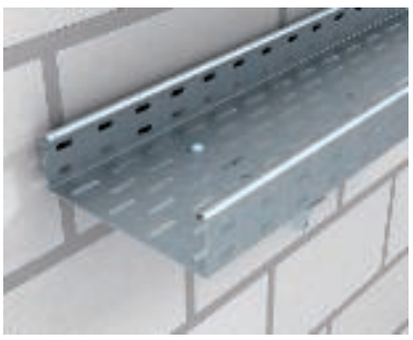
System description, cable tray system MKS, SKS



Centre suspension application
Centre suspension of the cable tray systems MKS, SKS, EKS, DKS and IKS with a central suspension hanger, type MAH, and threaded rod 2078/M10.



Ceiling mounting application
Ceiling mounting of a cable tray with support and wall and support bracket.



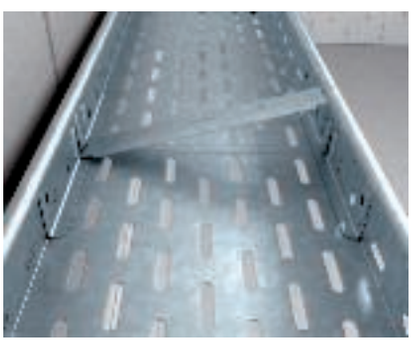
Wall mounting application with bracket
Standard mounting of a cable tray on the wall with wall and support brackets.



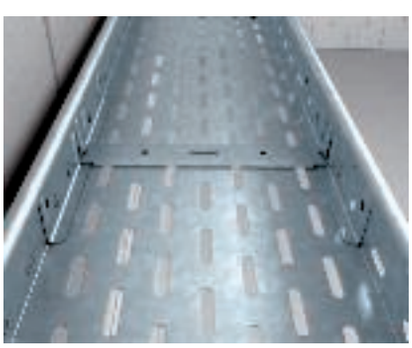
Screwless straight connector set, type RV
Illustration of the quick connector set RV.. contained in the scope of delivery, for strip galvanised cable trays (you can find information on the connectors in the article description).



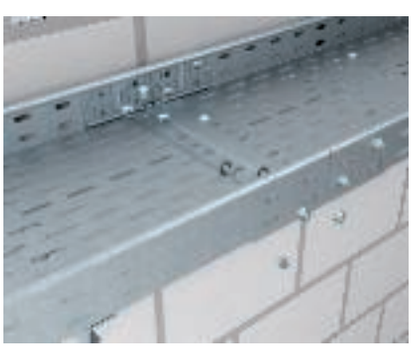
Installation of RV straight connector set
Simply clamp the two side sections of the connector set in the side rail.



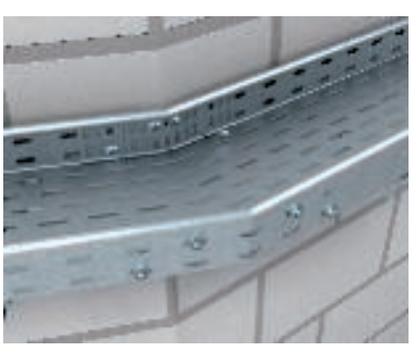
Screwless straight connector set, type RV
Push the corresponding joint plate down until it has locked in place.



Screwless straight connector set, type RV
Correctly used RV straight connector set.



Straight connection with joint cover
Cable tray with screwed straight connection and joint plate, type SSLB. The joint plate can also be mounted above the bar of the RV straight connector set.



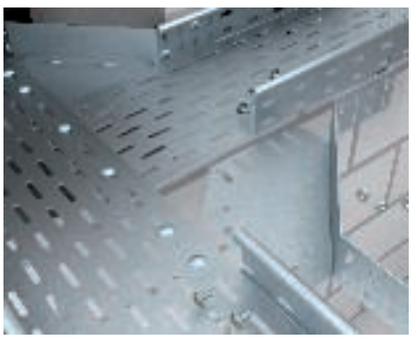
Horizontal angle connection of cable trays
Horizontal angle connection of cable trays for brackets created during construction and cut cable tray ends.



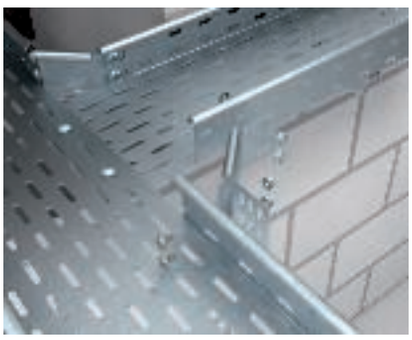
Vertical adjustable connection of cable trays
Vertical adjustable connection of cable tray for construction-side height jumps of any angle.



Bend creation with corner connector
For 90° bends to be created at site, the corner connector, type REV, can be used to increase the internal radius.



Direct connection with corner connectors
Corner connector, type REV, to increase the angle when creating tees without fittings. Additional supports should be planned for the area of the branches.



Branch with angle connectors
Installation of built T exit with angle connectors, type WKV. Additional supports should be planned for the area of the branches.



Installation of reducer / stop-end
The reducer / stop-end plate component is used as closure and to reduce the width of cable trays.



Screwless barrier strip mounting
Screwless mounting of the barrier strip TSG ... with clamping piece KS KR. The barrier strip can be run over the joint without machining and can be connected without bolts using the TSGV barrier strip connector.



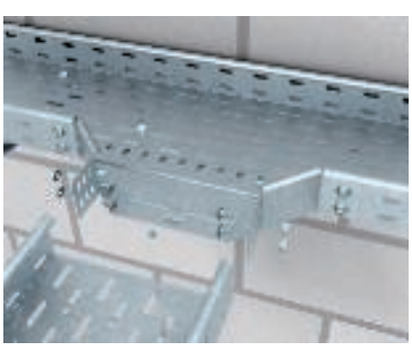
Barrier strip mounting with screw connection
Screwed barrier strip fastening of the barrier strip, TSG 60, with truss-head bolts M6 x 12. The barrier strip can simply be run over the joint and connected without bolts using the barrier strip connector TSGV.



Installation of bend (width 100 – 300 mm)
The bend in widths 100 to 300 mm is pushed into the rail on the one side and over the connector on the other. Additional supports should be planned for the area of the fittings.



Installation of bend (width 400 – 600 mm)
The bend in widths 400 to 600 mm is connected to the cable tray using connectors and a joint plate. Additional supports should be planned for the area of the fittings.



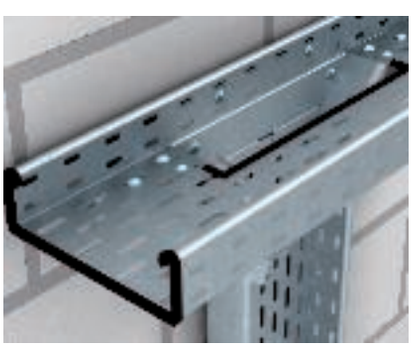
Installation of add-on tee (width 100 – 300 mm)
To mount the add-on tee, separate the cable tray rail and screw it tight. Additional supports should be planned for the area of the fittings.



Installation of add-on tee (width 400 – 600 mm)
To mount the add-on tee, separate the cable tray rail and screw it tight. Additional supports should be planned for the area of the fittings.

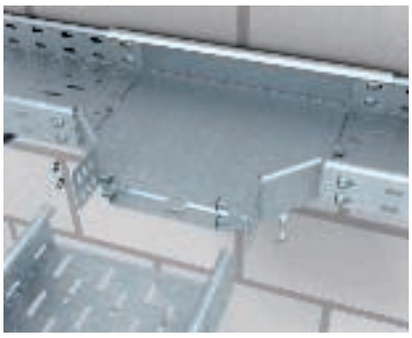


Installation of vertical add-on tee
Vertical mounting of the add-on tee as lengthwise funnel.

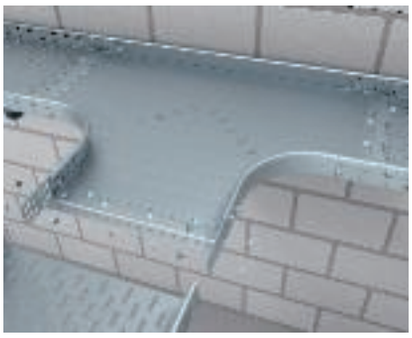


Installation of vertical add-on tee
Vertical mounting of the add-on tee as lengthwise funnel.

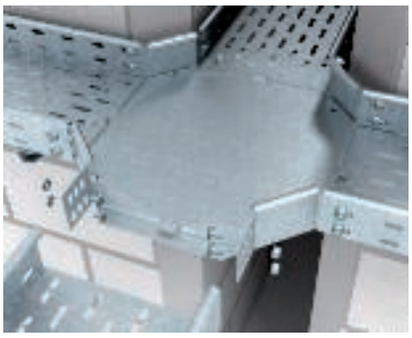
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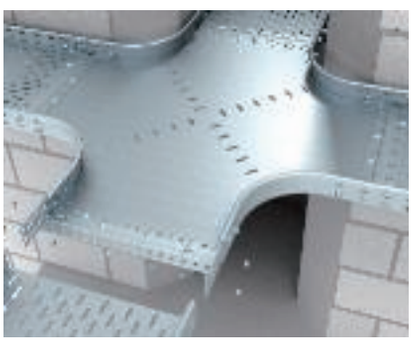
Installation of tee (width 100 – 300 mm)
The tee in widths 100 to 300 mm is pushed into the rail on the one side and over the connector on the other. Additional supports should be planned for the area of the fittings.



Installation of tee (width 400 – 600 mm)
The tee in widths 400 to 600 mm is connected to the cable tray using connectors and a joint plate. Additional supports should be planned for the area of the fittings.



Installation of cross-over (width 100 – 300 mm)
The cross-over in widths 100 to 300 mm is pushed over connectors and screwed tight. Additional supports should be planned for the area of the fittings.



Installation of cross-over (width 400 – 600 mm)
The cross-over in widths 400 to 600 mm is connected to the cable tray using connectors and a joint plate. Additional supports should be planned for the area of the fittings.



90° bend (rising/falling)
90° bend, rising or falling, for the creation of simple vertical changes of direction.



Installation of adjustable vertical bend element
Installation of the adjustable vertical bend element for the creation of adjustable bends. The adjustable vertical bend element is connected to the cable tray using adjustable connectors.



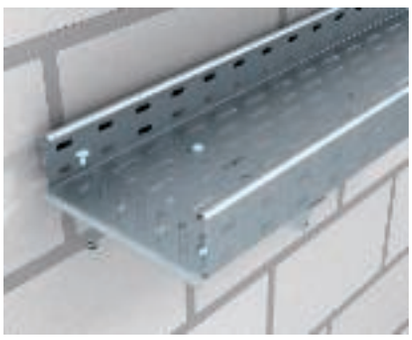
Installation of falling adjustable vertical bend
Adjustable vertical bend to bridge height offsets. The adjustable vertical bend is connected with to the cable tray using the adjustable connectors.



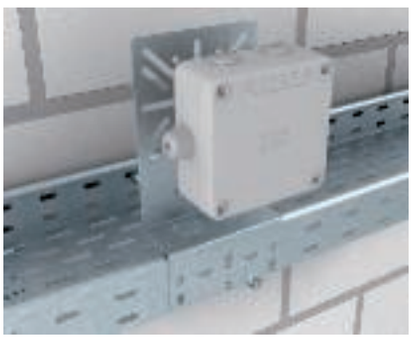
Installation of rising adjustable vertical bend
Adjustable vertical bend to bridge height offsets. The adjustable vertical bend is connected with to the cable tray using the adjustable connectors.



Screwless cover mounting
Screwless installation of the cover, type DRLU, on a cable tray using the cover clamp, type DKU. The cover clamp locks in the top hole of the side rail.



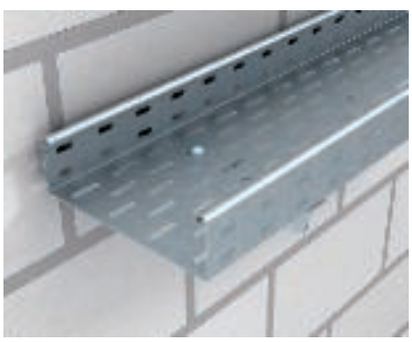
Installation of bottom end plate
Fastening of the bottom end plate, type BEB, to protect the cables.



Mounting plate with quick fastening
Fastening of the mounting plate, type MP, on the cable tray. The mounting plate can be fastened to the rail with quick connectors, and permanently fastened using truss-head bolts of type FRS B.



Universal mounting plate
Fastening of the mounting plate, type MP UNI, on the cable tray.



Fastening on bracket
The cable tray is fastened to the bracket with truss-head bolts FRS M6 x 12.



Cable tray mounting on steel girder
Cable tray mounting with chuck jaws of type TKS-L-25 and U supports as cantilever beams on steel girders. Use spacers, type DSK, for safe functioning.



Complete mounting of a cable tray system
Illustration of a multi-layer cable tray system mounted on the ceiling.



Creating a height increase or decrease
After cutting into the side rail, the cable tray is bent manually at an angle of 0–60° and fixed with the straight connector RLVKV 60 FS. It is not necessary to cut into the bottom plate.

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Cable tray systems

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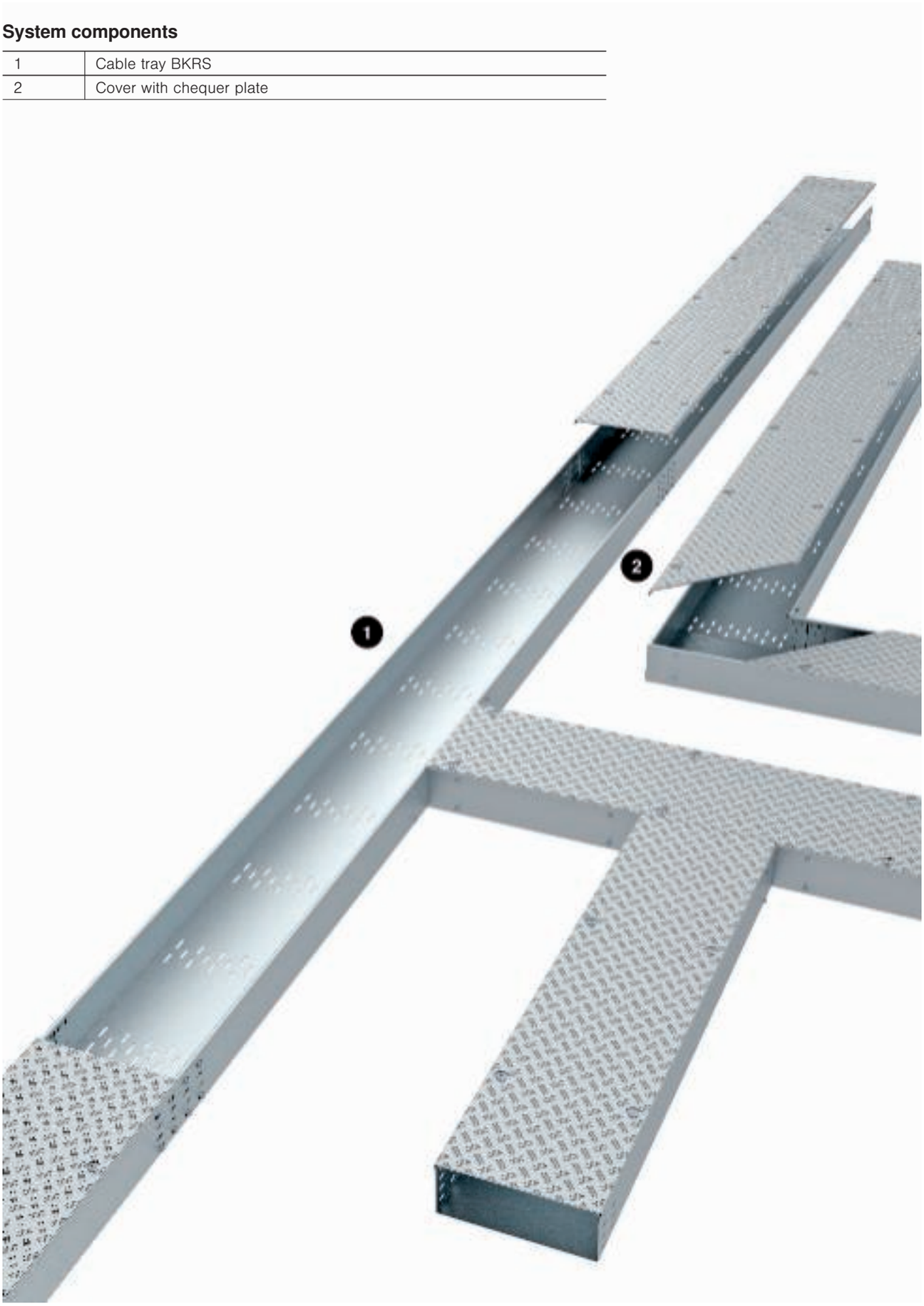
Mounting aid, walkable cable tray system 108

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Installation principle, walkable cable tray systems

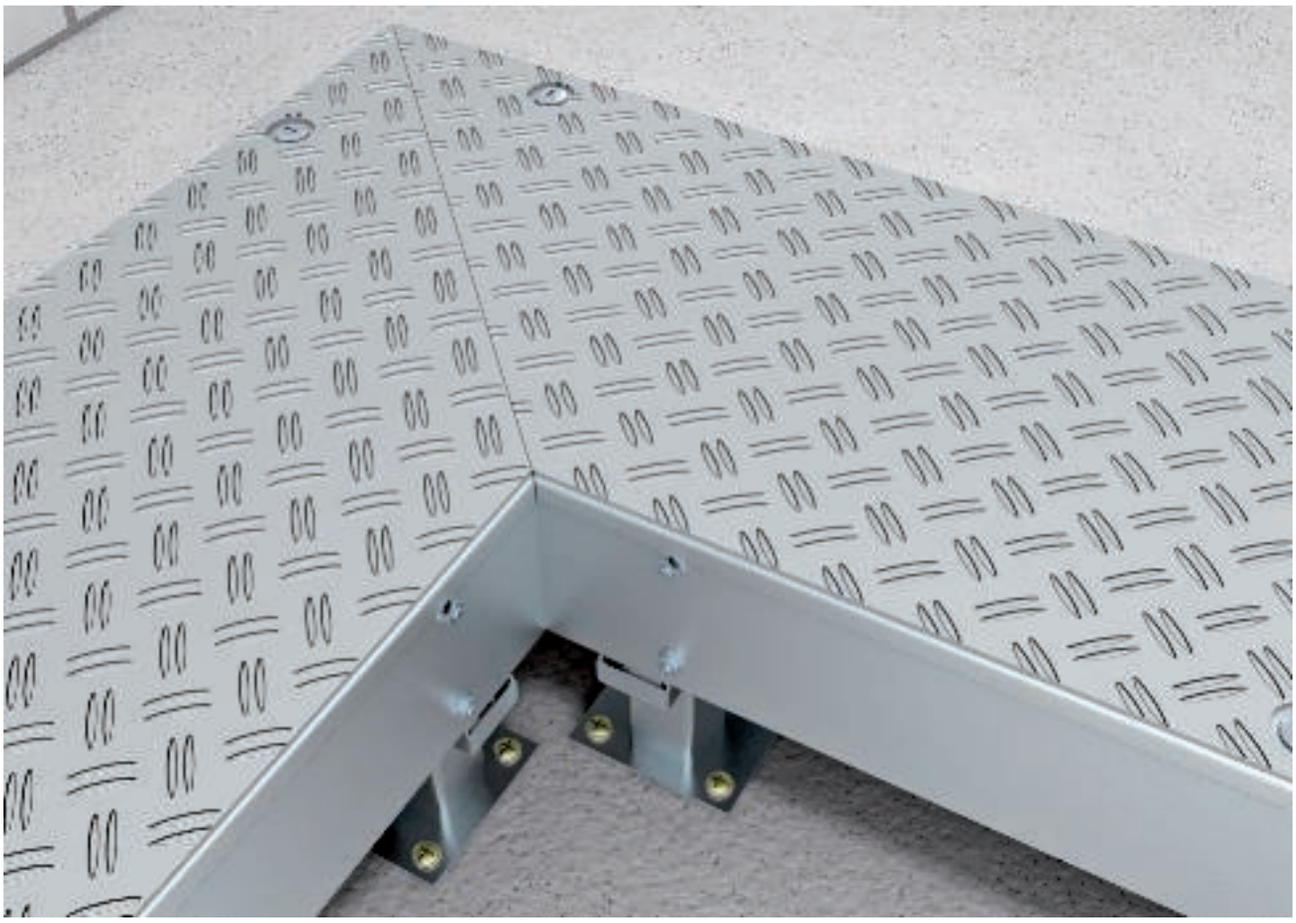
System components

1	Cable tray BKRS
2	Cover with chequer plate



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System description, walkable cable tray system



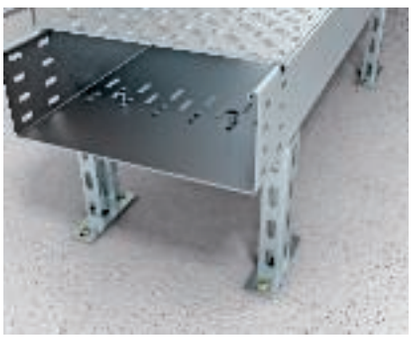
Optimised for worldwide use in systems construction and in the automotive industry with its automated production lines, the walkable cable tray system from OBO Bettermann is ready for any task. The non-slip, impact-resistant aluminium profile-reinforced covers and the unperforated cable trays, type BKRS, which serve as the base, are absolutely suitable for the rough and tumble of everyday work. Comprehensive accessories, such as support profiles, Z-shaped barrier strips, end closure plates, dust protection, guard plate and all the fastening materials optimise this system for universal use and ensure a flexible system, which allows low-cost installations.

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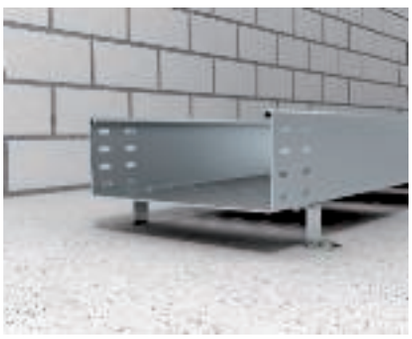
Mounting aid, walkable cable tray system



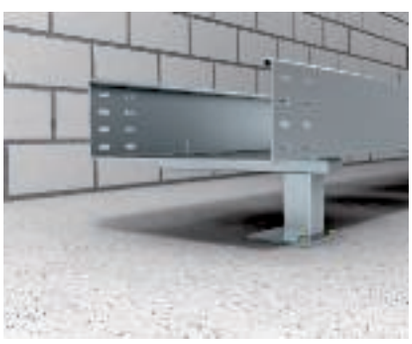
Direct floor mounting
Installation of the walkable cable tray system directly on the ground with nail tie or bolt tie.



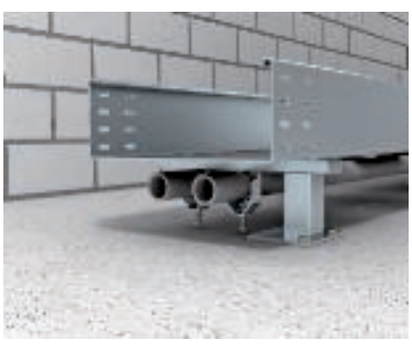
Stand-off application
Installation and fastening of the walkable cable tray system for floor stand-off using U profiles.



Stand-off application with spacer clamp
Installation of the walkable cable tray system on type DBL spacer clamps.



Mounting on support brackets
Installation of the walkable cable tray system on special support brackets type STA.



Mounting below the walkable cable tray system
Below the support brackets type STA other media such as hydraulic, pneumatic or water can be mounted under the walkable cable tray system. The rails of the support bracket allows the use of U clamps.



Straight connection
The longitudinal connection of the walkable cable tray system is possible by means of straight connector type RLVL.



Mounting protective panel
The protection panel type SB is fastened by means of drilling screws type BS to the support brackets and is designed to protect people, to prevent accidental tread down the walkable cable tray system and therefore to avoid accidents.



Mounting of barrier strip
The barrier strip type TSG is screwed by means of truss-head screws in the bottom of the cable tray. Depending on the width of the cable tray system multiple barrier strips can be used. Here, the barriers strip serves as a lid support.



Use of anti-slip tape
The anti-slip strip is a safety feature in the assembly of the covers, for when they have not yet been attached finally. The strip is stuck onto the upper edge of the barrier strip and, due to its rubber coating, prevents the slipping of the still unattached lid and thus contributes to accident prevention.

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Cover mounting
The covers specially developed for the walkable cable tray system are simply placed on the cable trays and fixed by means of an integrated turn buckle.



Using the dust protection element
The dust protection element type SSE is there to prevent the intrusion of foreign particles such as sweat, dust or similar at the butt joints of the covers. The dust protection element is simply pushed between steel sheet and aluminium sheet of the first cover and is therefore easily held in position.



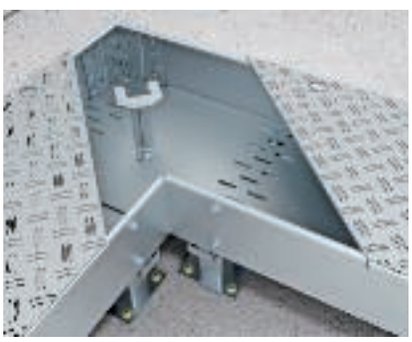
Using the dust protection element
In the second step, the dust protection element is pushed completely between the steel sheet and aluminium sheet.



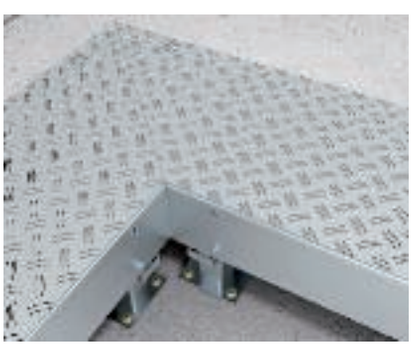
Using the dust protection element
In the final step, the following cover is simply laid onto the cable tray thereby overlapping the dust protection element.



Creating changes of direction 90°
For this, the cable trays are cut with the appropriate tools and machines so they lie flush against each other. After sliding the cut cable trays together they are then screwed together by means of longitudinal angled connectors.



Cover support for BKRS
If fittings are used, the additional cover support type DST is used which reliably prevents a sagging of the cover with larger dimensions. The cover support is fixed with screws in the bottom of the cable tray / the fitting.



Cover in the fitting area
When 90° changes in direction are created, the cover for the walkable cable tray system should be used as shown in the image.



Finished installation
Illustration of a sample installation with walkable cable tray system.

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Mesh cable tray systems

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Planning aids, mesh cable tray systems

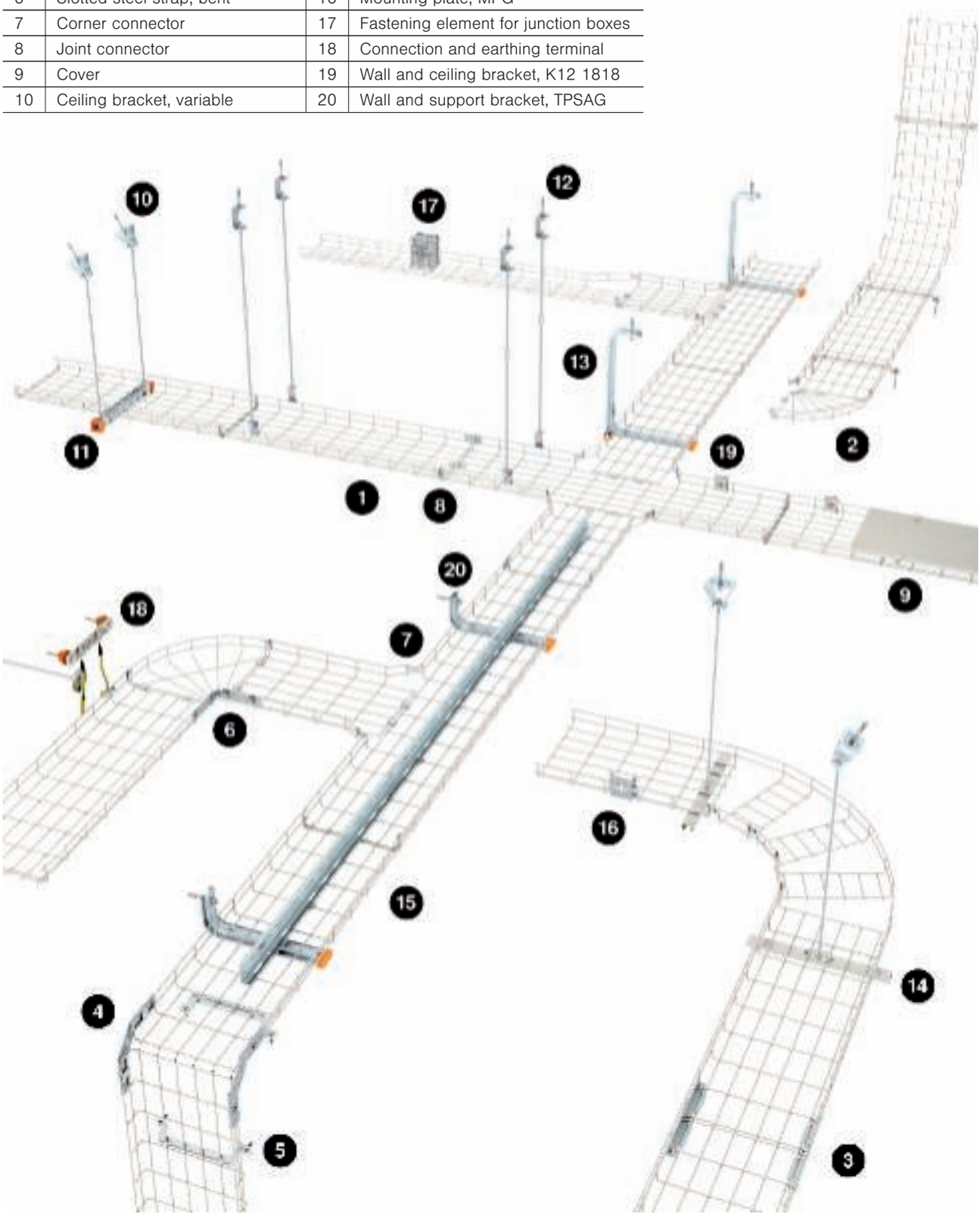
Mounting aid, mesh cable tray GR-Magic	114
Mounting aid, G mesh cable tray	120
Mounting aid, C mesh cable tray	122

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Installation principle, mesh cable tray systems

System components

1	Mesh cable tray GRM	11	Mounting rail MS41
2	90° mesh cable tray bend	12	Ceiling bracket, DB
3	Mesh cable tray connector, long	13	TP support
4	90° mounting angle	14	Central hanger, GMS
5	Stand-off bracket	15	Barrier strip, TSG
6	Slotted steel strap, bent	16	Mounting plate, MPG
7	Corner connector	17	Fastening element for junction boxes
8	Joint connector	18	Connection and earthing terminal
9	Cover	19	Wall and ceiling bracket, K12 1818
10	Ceiling bracket, variable	20	Wall and support bracket, TPSAG



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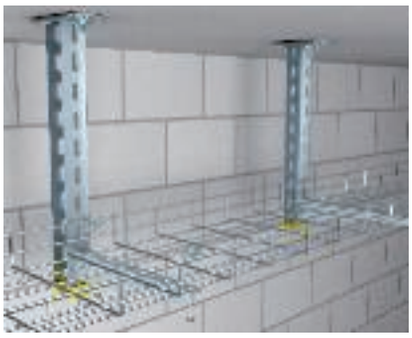
System description, mesh cable tray systems



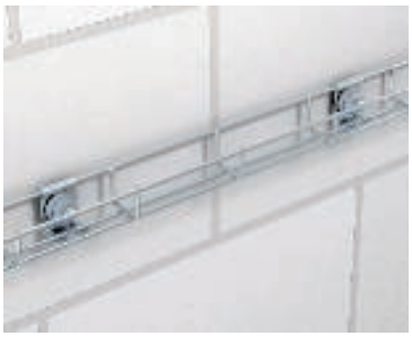
OBO Bettermann's mesh cable tray systems are the ideal basis for quick, safe and economical cable routing in all areas of professional electrical installations. The GR-Magic mesh cable tray system with shaped connector for screwless quick mounting guarantees the shortest possible installation times, even for complex installation operations. The mesh cable trays are available with side heights of 35, 55 and 105 mm in the electrogalvanised "Titan look" version, hot-dip galvanised version and in stainless steel. The comprehensive range of practical accessories, such as mesh cable tray bends, clamping pieces, quick connectors, separating retainers, suspension profiles, brackets, etc. ensures that the product range is complete down to the smallest detail.

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Mounting aid, mesh cable tray system



Ceiling mounting application
Mounting of mesh cable tray with support, type US 3 K/... and appropriate wall and support bracket AW 15/...



Wall mounting GRM 35 50
Wall mounting for direct wall fastening of mesh cable trays GRM 35 50.



Wall mounting of mesh cable trays
Wall mounting of mesh cable trays with wall bracket, type K 12 1818. Maximum mesh cable tray width 200 mm.



Ceiling mounting with TP wall and ceiling bracket
Ceiling mounting of a mesh cable tray with TP wall and ceiling bracket, type TPDG. The mesh cable tray is fastened to the ceiling bracket without screws.



Ceiling mounting with TP support and bracket
Screwless mounting of a mesh cable tray on brackets of type TPSAG/...



Straight connection of Magic® mesh cable tray
Creation of a screwless straight connection of the mesh cable tray, type GR-Magic®, by interconnecting two stock lengths.



Straight connection of Magic® mesh cable tray
The permanent, stable connection is created by simple joining together.

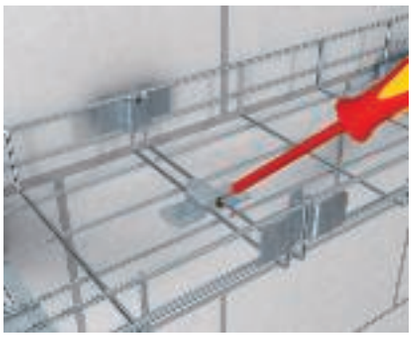


Screwed straight connection of mesh cable trays
Creation of a screwed straight connection of mesh cable trays with joint connectors, type GSV 34.

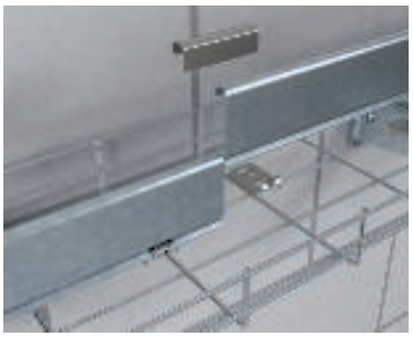


Screwless straight connection with quick connectors
Creation of a screwless straight connection of mesh cable trays using a quick connector, type GRV.

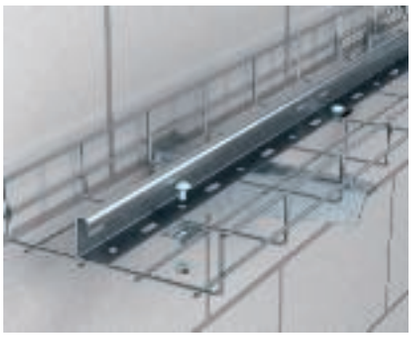
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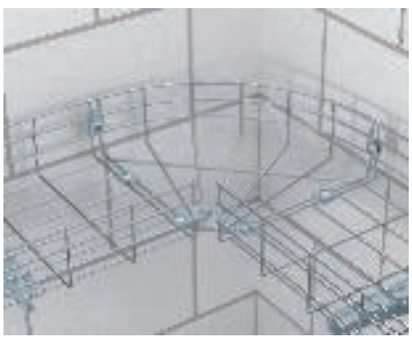
Screwless straight connection of mesh cable trays
Creation of a screwless straight connection of mesh cable trays with joint connectors, type GRS.



Screwless barrier strip fastening
Screwless fastening of a barrier strip in mesh cable trays with clamping piece, type KS GR. The screwless straight connection of the barrier strip is made using the barrier strip connector TSGV.



Screwed-on barrier strip fastening in mesh cable trays
Fastening a barrier strip in mesh cable trays with clamp, type GKT 38.



Installation of a mesh cable tray bend
Installation of a mesh cable tray bend, type GRB 90, with joint connectors, type GSV 34, and corner connector, type GEV 36.



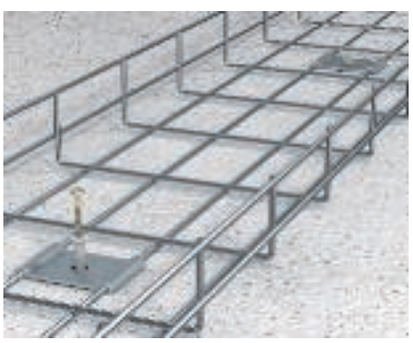
Installation of a mesh cable tray bend
Installation of a complete mesh cable tray bend using joint connectors, type GSV 34, and bent slotted steel strap.



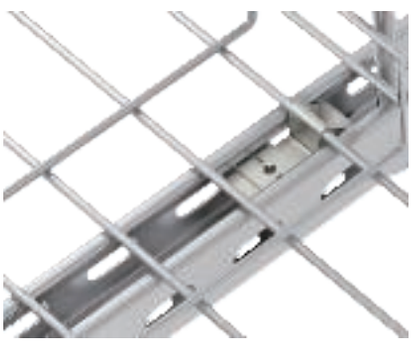
Stand-off of mesh cable trays
Floor stand-off of mesh cable trays with the stand-off bracket, type DBLG 20/... Screwless fastening of the mesh cable tray on the stand-off bracket using clamping lugs.



Mounting adapter for mesh cable trays on stand systems
Mounting system TrayFix for fastening mesh cable trays on FangFix blocks of 10 or 16 kg for cable routing on flat roofs.

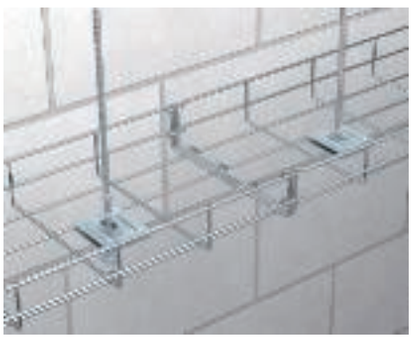


Direct floor fastening
Direct floor mounting of mesh cable trays using clamp, type GKS 50.



Hold-down clip on MS profile rail
Screwless and quick fastening of mesh cable trays onto MS profile rails using fastening clips of type BD GR 4.8 VA for wire thicknesses of 3.9 or 4.8 mm, or BC GR 6.0 VA for wire thickness of 5.9 mm.

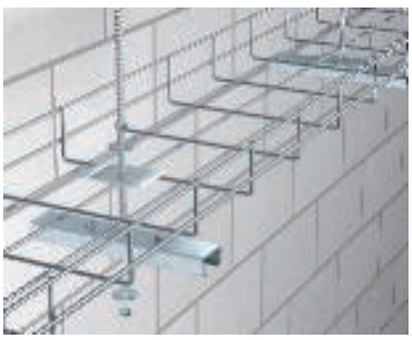
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Centre suspension
Suspension of a mesh cable tray using threaded rod, type 2078, and central suspension hanger, type K12 1818. Use with widths of up to 200 mm.



Trapeze suspension
Suspension of a mesh cable tray using threaded rod, type 2078, and central suspension hanger, type K12 1818. Use with widths of 300 mm or more.



Suspension with central suspension hanger
Suspension of a mesh cable tray with central suspension hanger, type GMS, and clamp, type GKS 50.



Centre suspension with suspension profile
Centre suspension with suspension profile, type AP 45, floor bracket, type K 109, and ceiling angle, type K6/101.



Suspension with side holder
Suspension of a mesh cable tray with side holders, type SH M 10 and threaded rods, type 2078/M10.



Side holder
Installation of the conduit take off bracket, type SH KAB, for accepting cable glands.



Mounting plate
Screwless quick fastening of the mounting plate, type MP UNI.



Identification plate
Installation of the identification plate, type KS-GR, in the side rail of the mesh cable tray.



Cover mounting
Mesh cable tray with cover, type DRLU. Cover fastening with cover clamp, type DKU, on the transverse wire of the mesh cable tray.



Girder clamping application
Vertical mesh cable tray mounting, fixed with beam clamp, type BFK, and clamp, type GKS 50, to steel girder.



Installation of mesh angle
Fastening of the mesh angle, type GW 40/80, to steel girders using beam clamps, type KL 20 or KL 30.

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Creation of a mesh cable tray bend – angular, overlapping
After appropriate cutting of the mesh cable trays, they can, together with joint connectors, type GSV 34, and an overlapping bent slotted steel strap, be combined to an angular mesh cable tray bend.



Creation of a mesh cable tray bend – angular
After appropriate cutting of the mesh cable trays, they can, together with joint connectors, type GSV 34, and a bent slotted steel strap, be combined to a non-overlapping, angular mesh cable tray bend.



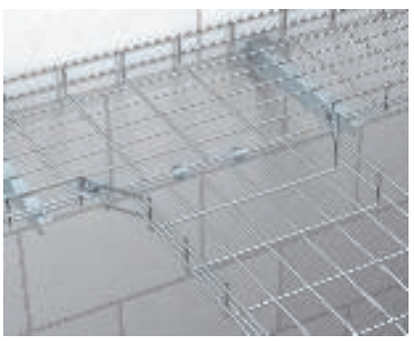
Creation of a mesh cable tray bend – round, overlapping
After appropriate cutting of the mesh cable trays, they can, together with joint connectors, type GSV 34, and an overlapping bent slotted steel strap, be combined to a round mesh cable tray bend.



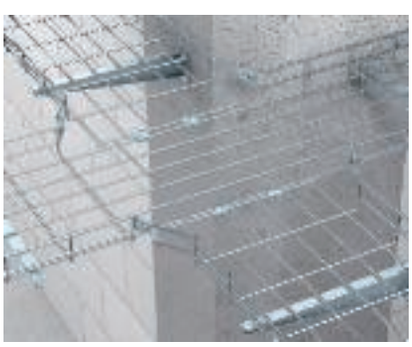
Creation of a mesh cable tray bend - round
Cutting out every second grid allows the creation of mesh cable tray bends with a larger radius. Fixing takes place using corner connectors, type GEV 36.



Rising and falling bends
Rising and falling vertical bends can be created by cutting every second grid in the side rail of the mesh cable tray.



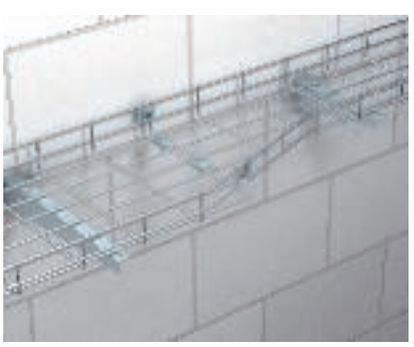
Creation of a mesh cable tray tee
After cutting the side rails and bending the straps, the corner connector, type GEV 36, and the joint connector, type GSV 34, can be used to create tees.



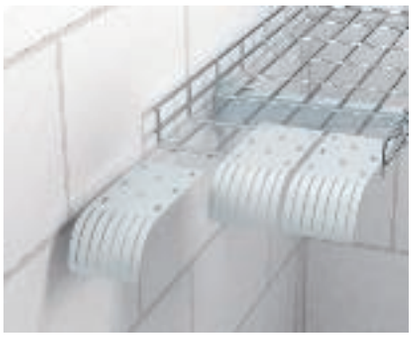
Creation of a mesh cable tray cross-over
After cutting the side rails and bending the straps, the corner connector, type GEV 36, and the joint connector, type GSV 34, can be used to create cross-overs.



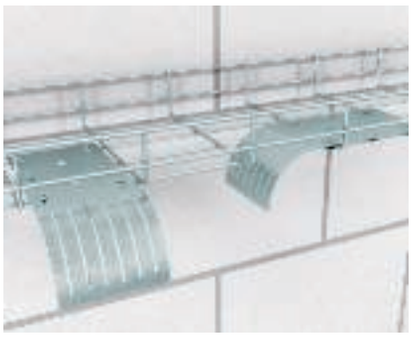
Creation of a vertical exit
After cutting the mesh cable tray base, the vertically branching, cut mesh cable tray can be fixed using the joint connector, type GSV 34.



Creation of a reduction
Reductions are possible by single-sided cutting of the different mesh cable tray widths, bending the flaps in the required direction and using the corner connectors, type GEV 36, and the joint connector, type GSV 34.



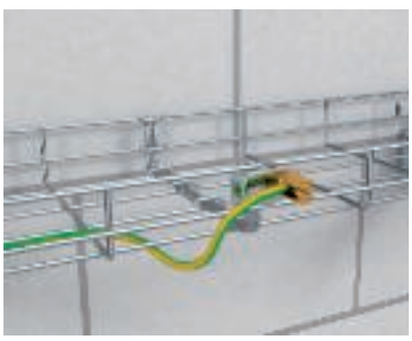
Mesh cable tray with drop-out plate
Drop-out plate for screwless mounting in mesh cable trays.
The cable exit plate allows maintenance of pre-specified bend radii.



Mesh cable tray with drop-out plate
The drop-out plate can be installed in length-wise and transverse directions.



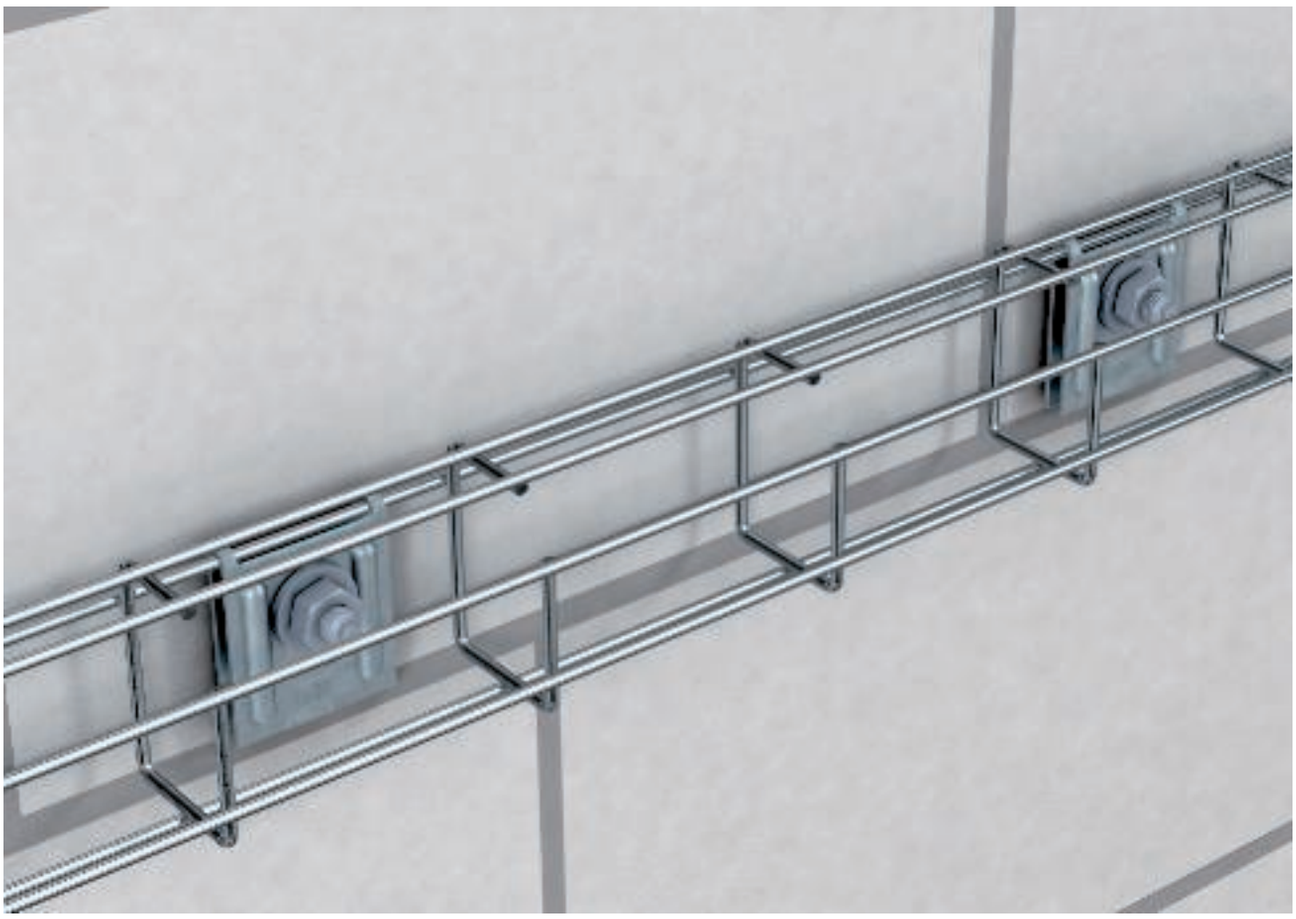
View of a complete installation
Illustration of complete mesh cable tray mounting.



Earthing terminal
Earthing terminal for fastening the equipotential bonding wire to the cable support system.

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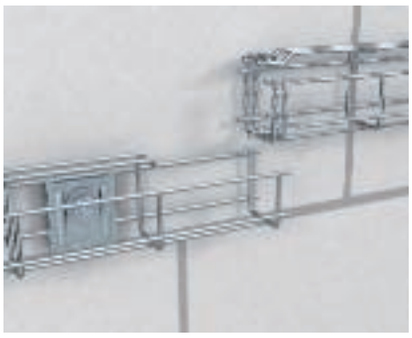
System description, G mesh cable tray systems



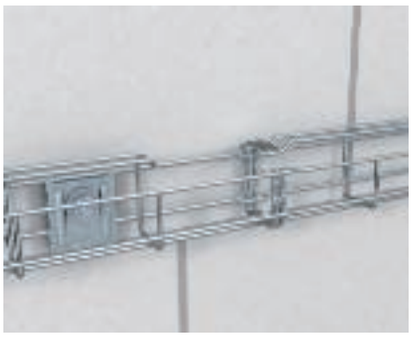
The Magic G mesh cable tray is the ideal extension of the Magic solutions for the OBO Bettermann mesh cable tray systems.
The quick Magic connection means that a screwless and easy-to-mount variant is now offered for the G mesh cable tray system as well.
Even when mounting in false ceiling, it is an ideal alternative through direct wall or ceiling mounting. The Magic G mesh cable tray is available in four sizes and three surfaces, thus offering ideal solutions for all kinds of tasks.

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Mounting aid, G mesh cable tray systems



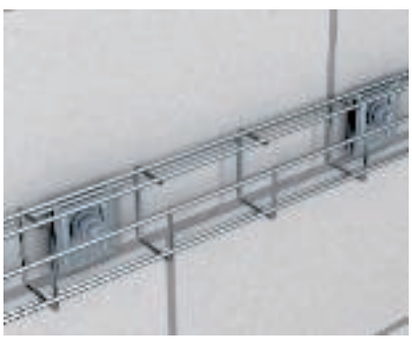
Straight connection of G Magic mesh cable tray
Creation of a screwless straight connection of the G mesh cable tray, type G GR-Magic®, by interconnecting two stock lengths.



Straight connection of G Magic mesh cable tray
The permanent, stable connection is created by plug connection.



Direct ceiling mounting
Direct ceiling mounting of the G mesh cable tray Magic using the clamping piece, type K 12 1818.



Wall mounting of G mesh cable trays
Wall mounting of G mesh cable trays with wall bracket, type K 12 1818.

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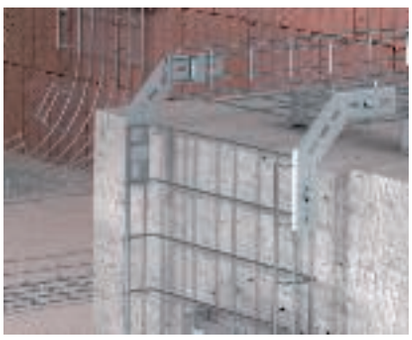
System description, C mesh cable tray systems



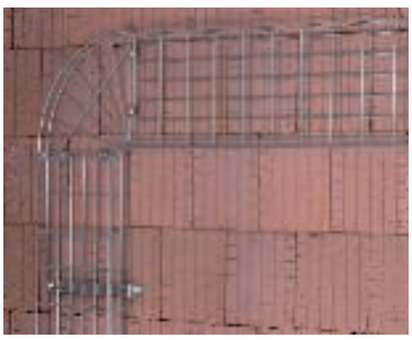
The C mesh cable tray system from OBO Bettermann can fulfil the highest requirements for load capacities and versatility. The C shape allows support widths of up to three metres. This system, with its 50 mm side height, together with the optimised accessories such as clamping pieces, quick connectors, separating retainers, suspensions profiles, installation profiles, etc. is an ideal addition to the overall mesh cable tray system and is used both in industry and in all other areas of professional electrical installations.

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Mounting aid, C mesh cable tray systems



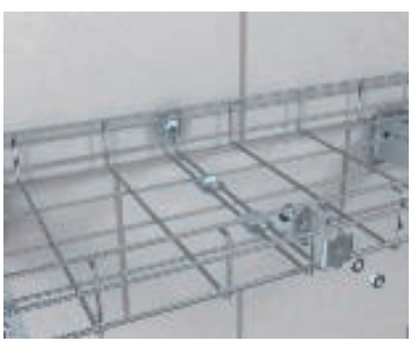
Stand-off with vertical bend application
Installation of a vertical bend using installation profiles, type MW, for stood-off C mesh cable trays.



Wall mounting application
Wall mounting of C mesh cable trays and 90° bend.



Vertical bend application
Vertical bend mounting with 90° installation profile.



Straight connection of C mesh cable tray
Creation of a straight connection on C mesh cable trays with the joint connector, type GSV 34.



Vertical bends
Implementation of a vertical bend for C mesh cable trays using the installation profile, type MW 90/SL....



Horizontal bends
Implementation of a horizontal bend for C mesh cable trays with corner connector, type GEV 36.



Finished installation
Illustration of complete C mesh cable tray mounting.



Cable ladder systems

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Mounting aid, cable ladder systems 128

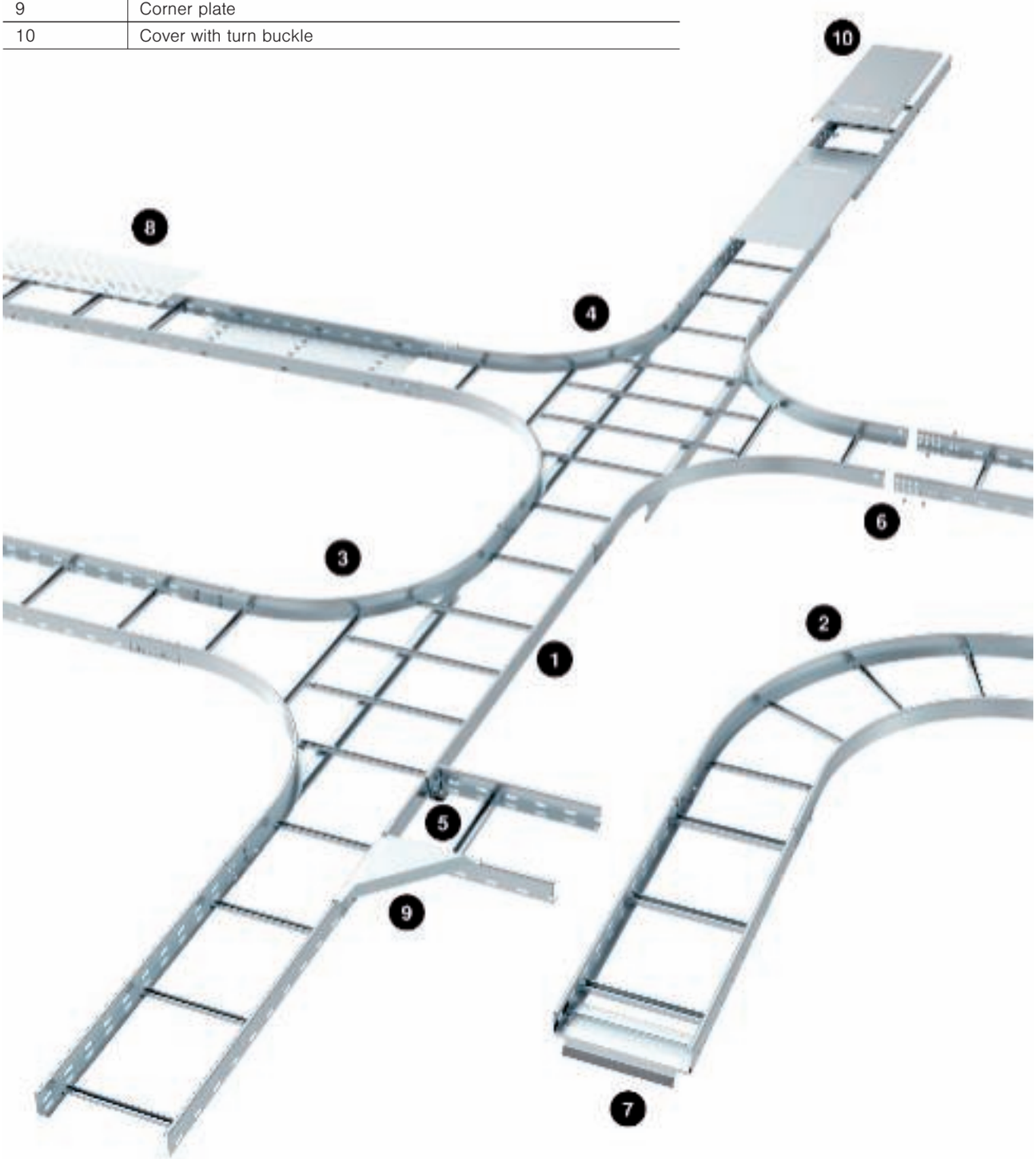


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Installation principle, cable ladder systems

System components

1	Cable ladder
2	90° bend
3	Tee
4	Cross-over
5	Connector
6	Straight connector
7	Drop-out plate
8	Insert plate
9	Corner plate
10	Cover with turn buckle



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System description, cable ladder systems



The high load capacity and good ventilation of the OBO cable ladder systems can offer tangible benefits, in particular during the installation of power cables. OBO Bettermann's cable ladder systems can be used universally and, due to the continuous rail and rung perforation, can offer countless installation benefits. A factor guaranteeing easy mounting is the option of integrated fastening of cables using OBO U clamps to the rungs, which are available in various different versions. OBO cable ladder systems are shipped folded up, thus saving space during transport and storage. OBO cable ladder systems can be supplied in lengths of 3 m and 6 m, in all standard widths from 200 to 600 mm and width rail heights of 45, 60 and 110 mm. On the following pages, you can select your preferred mounting variant from the installation diagrams shown and combine the corresponding articles in the order section.

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Mounting aid, cable ladder system



Support and threaded rod suspension application
Example of installing cable ladders with supports of U profiles and threaded rod suspension.



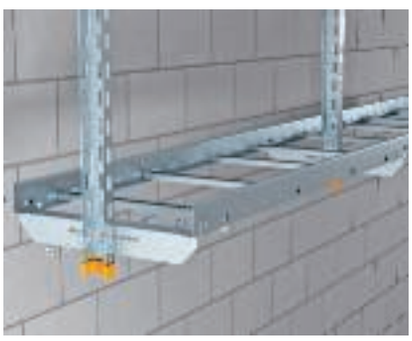
Jump application
Implementation of vertical jumps with adjustable connectors, e.g. for ceiling joists.



Threaded rod suspension application
Suspension of a cable ladder with threaded rods and U supports as a cross-section.



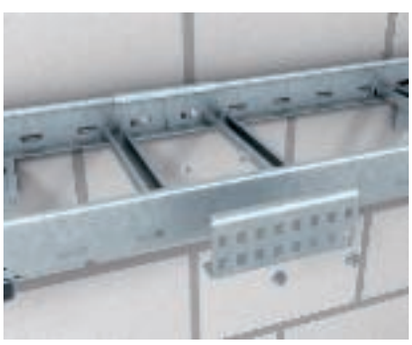
Centre suspension
Threaded rod suspension of a cable ladder using the central hanger, type MAHL, and threaded rod, type 2078/M12.



Cable ladder centre suspension with U profile
Installation of a cable ladder with central suspension hanger MAHU and a U support.



Support suspension
Suspension of a cable ladder with supports and support brackets.



Straight connection of cable ladders
Straight connection of cable ladder with straight connector, type LVG.



Horizontal angle connection of cable ladders
Horizontal angle connection with straight and angle connectors, type LWVG.



Vertical angle connection of cable ladders
Creation of a vertical angle connection using adjustable connectors, type LGVG.



Installation of falling adjustable vertical bend
Adjustable vertical bend to bridge height offsets. The adjustable vertical bend is connected to the cable ladder using the adjustable connectors.

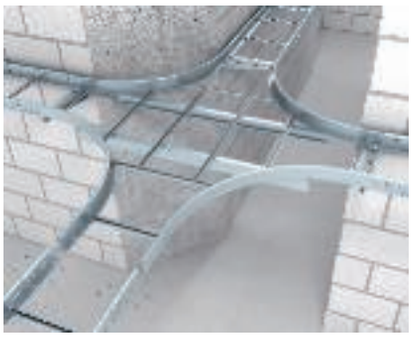


Installation of a cable ladder bend
Connection of the cable ladder with the bend, type LBI 90. Additional supports should be planned for the area of the fittings.



Installation of a tee
Mounting of tee, type LT, to create a horizontal exit. Additional supports should be planned for the area of the fittings.

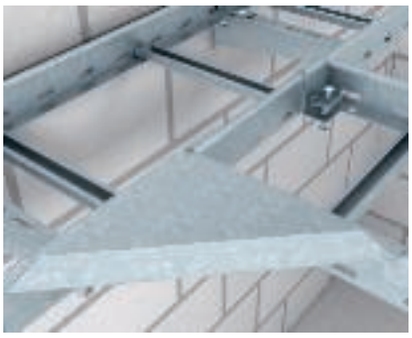
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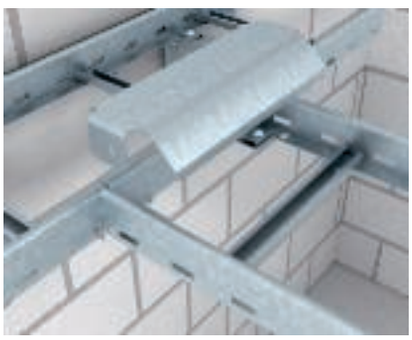
Installation of an cross-over
Installation of an cross-over, type LK, for the creation of two exits. Additional supports should be planned for the area of the fittings.



Installation of tee
Creation of a horizontal tee exit of two cable ladders at different heights. The support angle, type LAW, is required to fix two cable ladders.



Tee with corner plates
Creation of horizontal tees for cable ladders running at the same height. To increase the cable supporting surface, use corner plates of type LEB. Additional supports should be planned for the area of the exits.



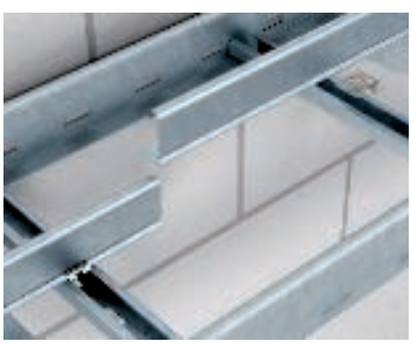
Tee with support plate
Creation of horizontal tees for cable ladders running at the same height. To increase the cable supporting surface and to protect the cables, use support plates, type LALB. Additional supports should be planned for the area of the exits.



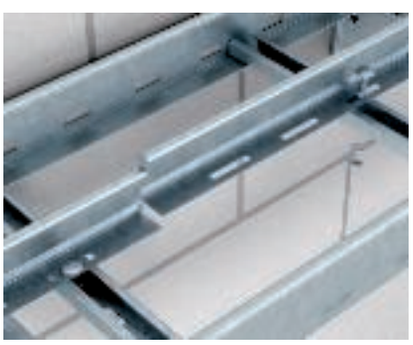
Vertical exit on support/bracket
Installation of a vertical exit in the area of the support/bracket. Fasten the cable ladder using the support, type LAL 70.



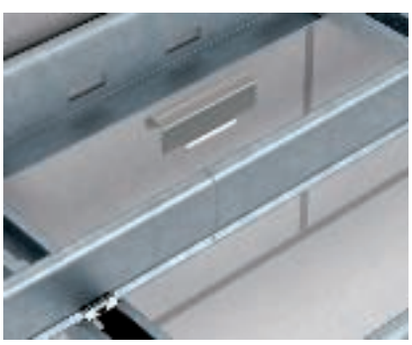
Vertical cable exit
The drop-out plate, type LAB, is used to increase the cable supporting surface for vertically exiting cables and as cable protection.



Screwless barrier strip fastening
Screwless fastening a barrier strip in cable ladders with clamping piece, type KS KL.



Screwed barrier strip fastening
Screwed mounting of the TSG barrier strip through the perforated rung of the cable ladders.



Straight barrier strip connection
Screwless straight connection of barrier strips in cable ladders using the barrier strip TSGV.



Installation of insert plate
Installation of insert plates, type ELB-L.

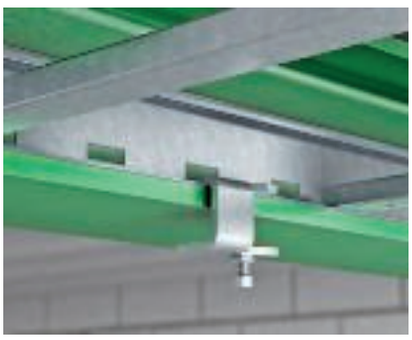
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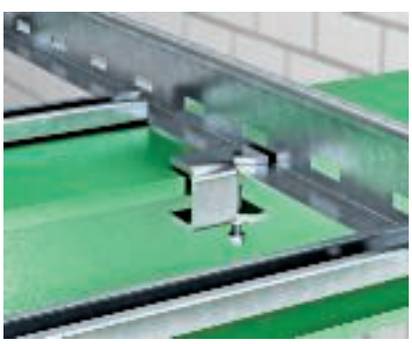
Cover mounting
Positioning and fastening of the cover on the cable ladder using turn-buckle, type DRL.



Cable ladder as-delivered state
All cable ladders are supplied folded up.



Cable ladder beam clamp
Cable ladder beam clamp KLL for direct mounting of cable ladders to steel girders.



Cable ladder beam clamp
Cable ladder beam clamp KLL for direct mounting of cable ladders to steel girders.



Finished installation
Illustration of complete cable ladder mounting.



Earthing terminal
Earthing terminal for fastening the equipotential bonding wire to the cable support system.

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Wide span systems

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Planning aids, wide span systems

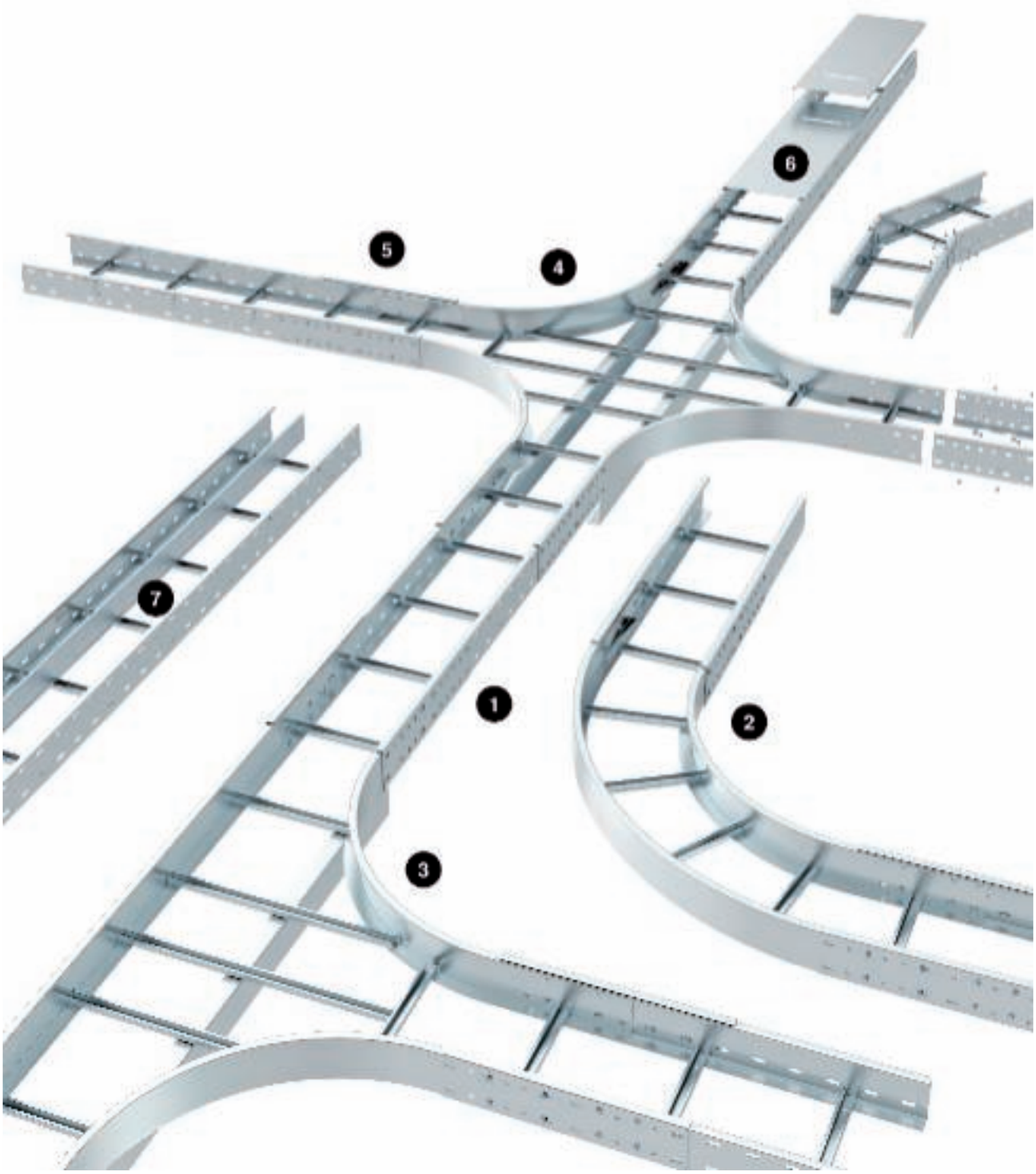
Mounting aid, wide span cable ladder systems	136
Mounting aid, wide span cable tray systems	140

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Installation principle, wide span cable ladder systems

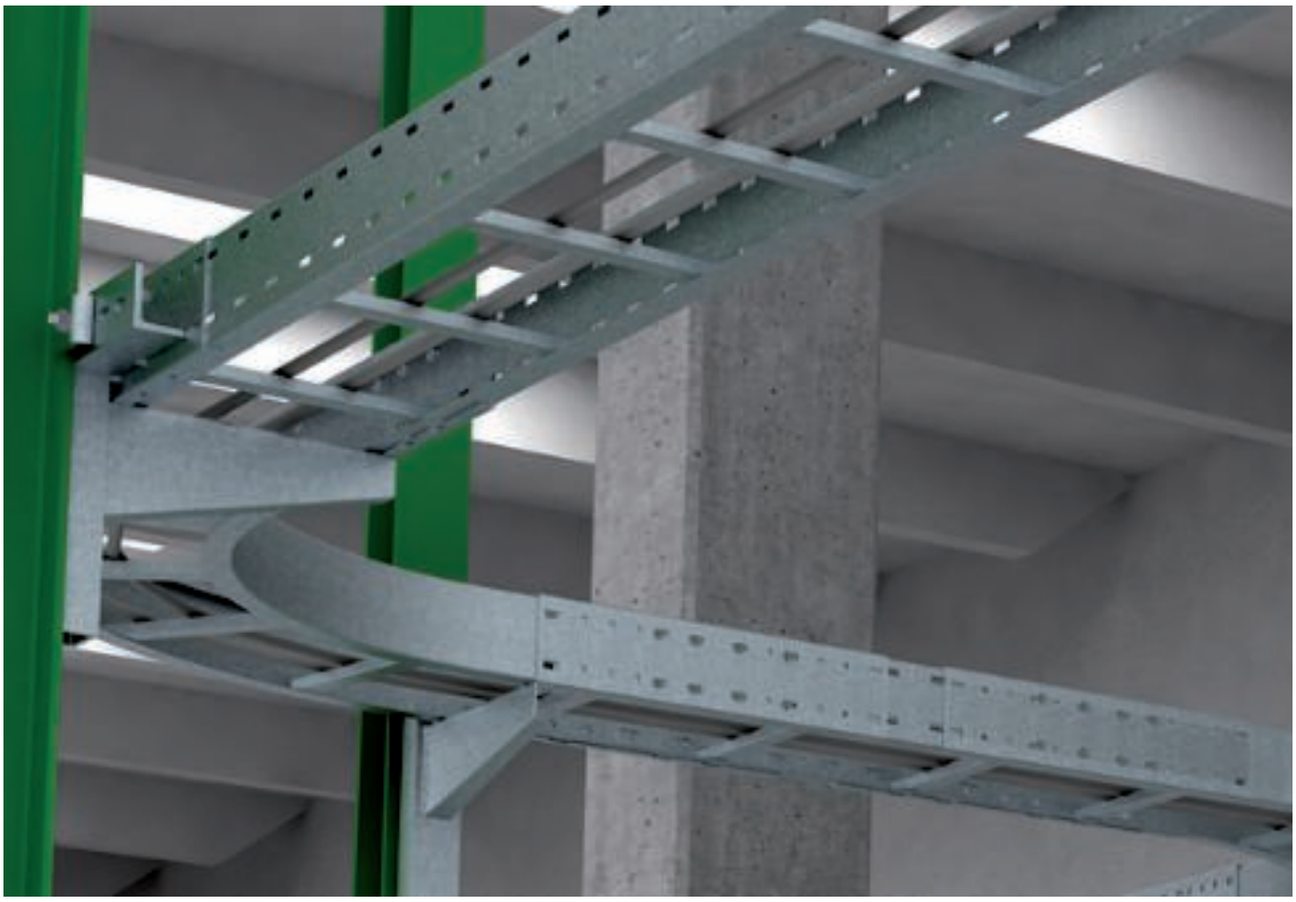
System components

1	Wide span cable ladder
2	90° bend
3	Tee
4	Cross-over
5	Straight connector
6	Cover with turn buckle
7	Barrier strip



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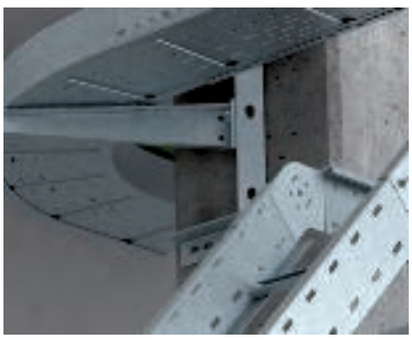
System description, wide span cable ladder systems



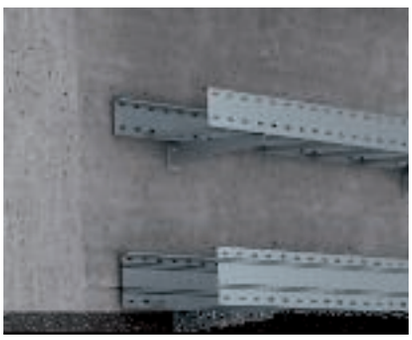
When you need to bridge wide spans and support high cable loads, the OBO wide span systems are the perfect solution. The product range comprises cable trays and cable ladders with widths of between 200 and 600 mm and side heights of 110 to 200 mm. Comprehensive system accessories such as fittings and all the fastening materials for concrete and steel mounting round off this product range perfectly. OBO wide span systems have proven their worth in many areas of industrial and plant construction. These systems are becoming ever-more popular in buildings with steel framework. OBO wide span systems are the complete product range for all applications and requirements and, with their large load capacity combined with large spans, can provide efficient and optimised power supplies.

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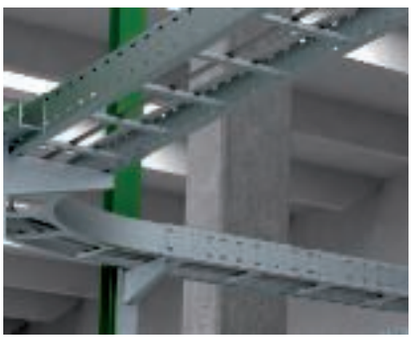
Mounting aid, wide span cable ladder systems



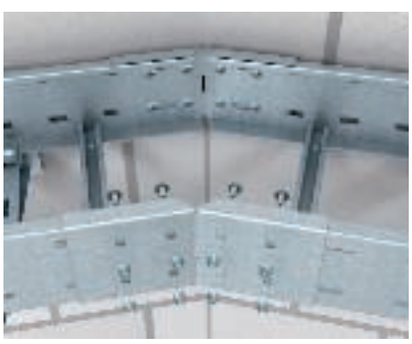
Wide span fittings application
Mounting examples for horizontal and vertical changes of direction for wide span systems.



Wall mounting application
Direct wall mounting of wide span systems.



Girder clamping application
Mounting of a wide span system clamped to steel girders.



Horizontal wide span angle connection
Horizontal angle connection of wide span cable ladders with angle connectors, type WRWVK.



Vertical wide span adjustable connection
Vertical angle connection of wide span cable ladders with adjustable connectors, type WRGV.



Fastening of wide span cable ladder
Fastening of wide span cable ladders to the bracket using clamp, type LKS 60/5.



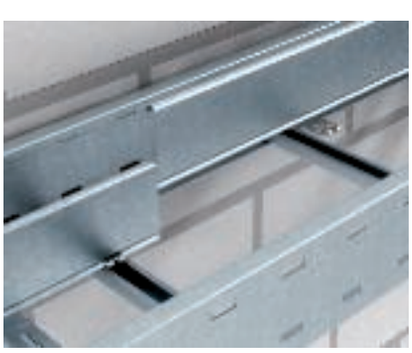
Installation of 90° bend
Bend in combination with wide span cable ladder. The bend is connected to the wide span cable ladder using external connectors.



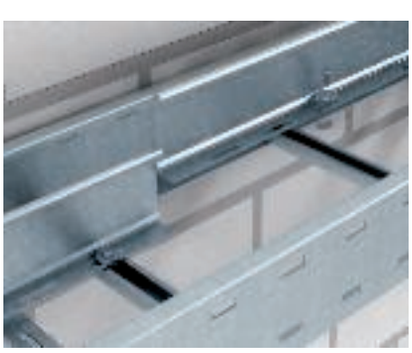
Installation of tee
Tee in conjunction with wide span cable ladder. The tee is connected to the wide span cable ladder using external connectors.



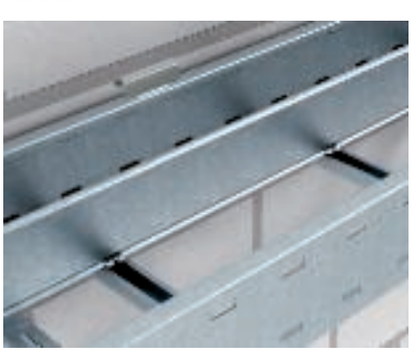
Installation of cross-over
Cross-over in combination with wide span cable ladder. The cross-over is connected to the wide span cable ladder using external connectors.



Screwless barrier strip fastening
Screwless fastening a barrier strip in wide span cable trays and cable ladders with clamping piece, type KS KL.

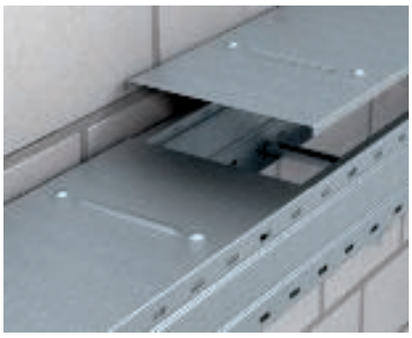


Screwed barrier strip fastening
Barrier strip mounting in wide span cable ladders. Fasten using slide nuts and hexagonal bolts.



Straight barrier strip connection
Screwless straight connection of barrier strips in wide span cable trays and cable ladders using the barrier strip TSGV.

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Cover mounting
Installation of covers with turn-buckles.



Suspended construction, concrete
Suspension suitable for wide span system in concrete with IS 8 support and anchor bolts.



Suspended construction, steel
Suspension suitable for wide span system with IS 8 support, clamped to steel girder.



Wall bracket, heavy-duty
Installation of the heavy-duty wall bracket, type AWSS, with clamping angle, type KWS, to steel girder to accept a wide span system. The wall bracket can also be mounted on concrete walls with anchor bolts.



45° adapter plate
Installation of the 45° adapter plate, type KA-E 45, on the steel girder using clamping angles, type KWS. The adapter plate can also be installed on concrete walls with anchor bolts.



Special structure
Special structure made of U supports for acceptance of a cable support system.



Mounting example
Double-sided support mounting of U profiles with transverse traverse. Fastening of a wide span cable tray, type WKSG 110, with truss-head bolts on the transverse profile.



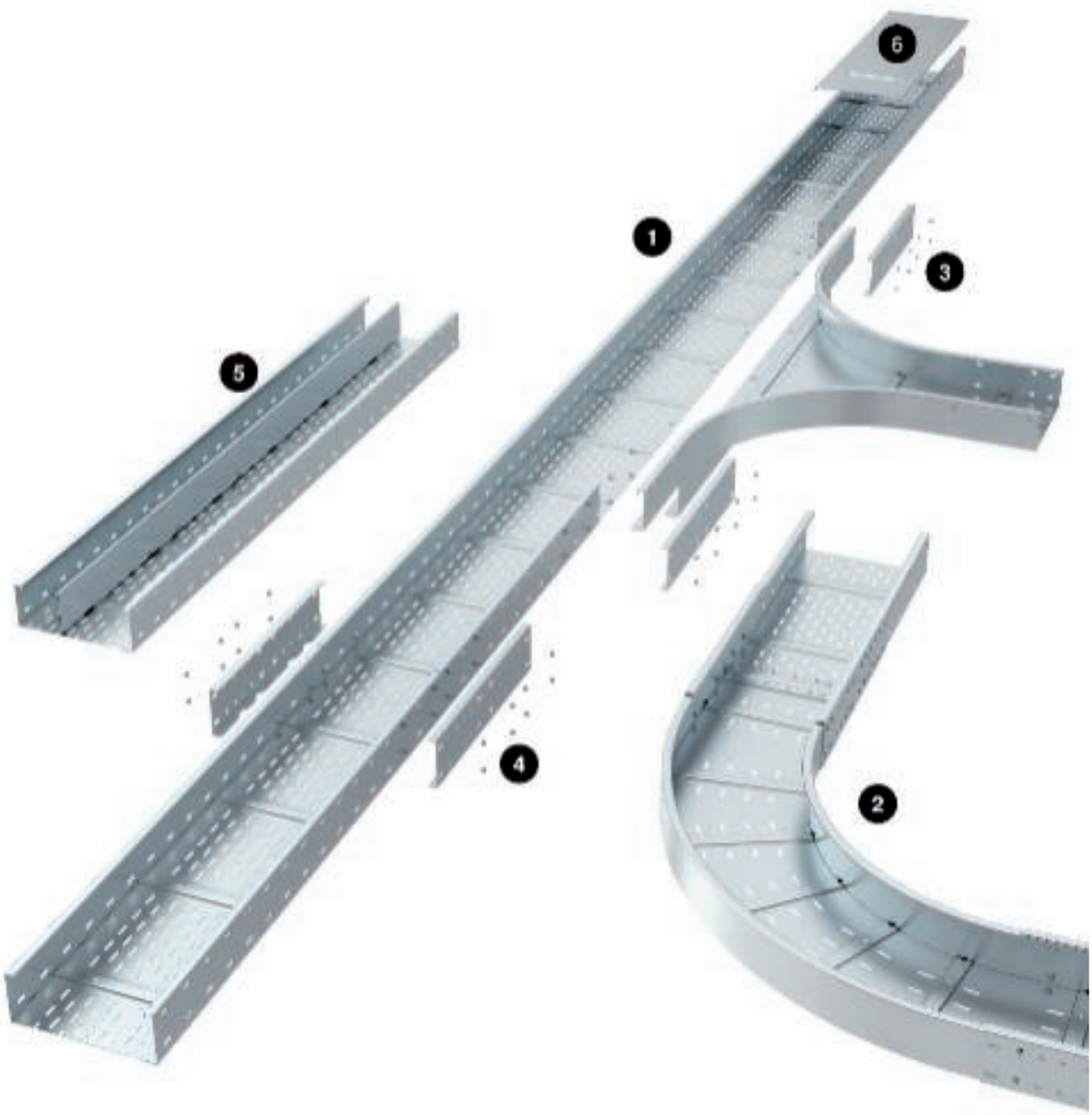
Mounting example
Double-sided support mounting of I profiles with transverse traverse. Fastening of a wide span cable ladder, type WKL 200, with clamp, type LKS 60/5, on the transverse profile.

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Installation principle, wide span cable tray systems

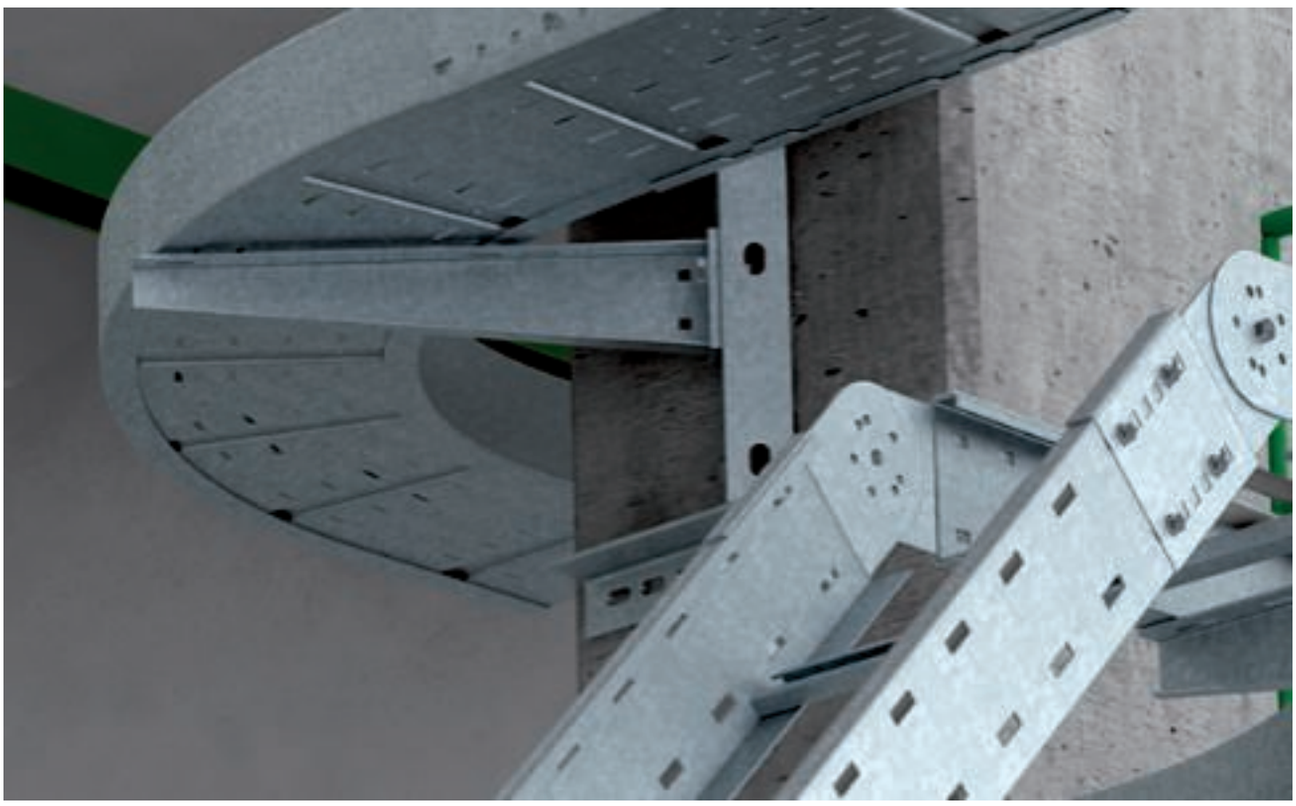
System components

1	Wide span cable tray
2	90° bend
3	Add-on tee
4	Straight connector
5	Barrier strip
6	Cover with turn buckle



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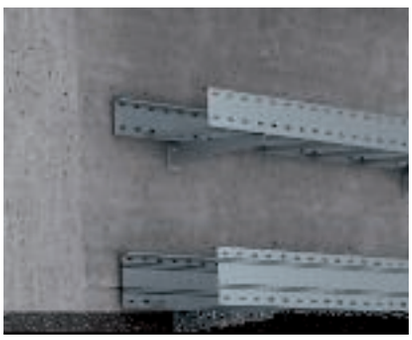
System description, wide span cable tray systems



When you need to bridge wide spans and support high cable loads, the OBO wide span systems are the perfect solution. The product range comprises cable trays and cable ladders with widths of between 200 and 600 mm and side heights of 110 to 200 mm. Comprehensive system accessories such as fittings and all the fastening materials for concrete and steel mounting round off this product range perfectly. OBO wide span systems have proven their worth in many areas of industrial and plant construction. These systems are becoming ever-more popular in buildings with steel framework. OBO wide span systems are the complete product range for all applications and requirements and, with their large load capacity combined with large spans, can provide efficient and optimised power supplies.

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Mounting aid, wide span cable tray systems



Wall mounting application
Direct wall mounting of wide span systems



Wide span straight connection
Horizontal straight connection of wide span cable trays with straight connector set, type WRVL.



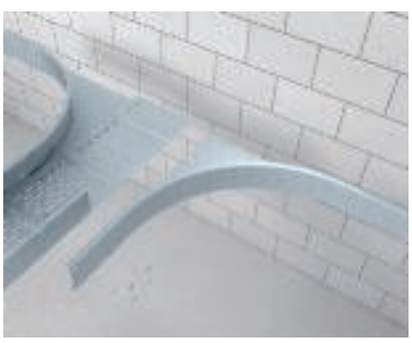
Installation of 90° bend
Bend in combination with wide span cable trays. The bend is connected to the wide span cable tray using external connectors and a joint plate.



Creation of a tee with add-on corner
Removal of the side rails from the wide span tray.



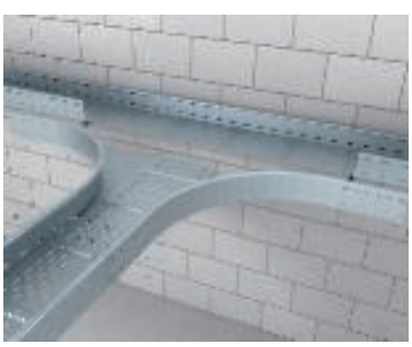
Creation of a tee with add-on corner
Installation of the first add-on corner, type WEAS 110.



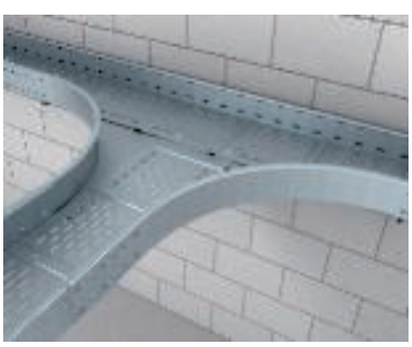
Creation of a tee with add-on corner
Installation of the second add-on corner, type WEAS 110.



Creation of a tee with add-on corner
Removal of the side rail from the ongoing wide span tray.



Creation of a tee with add-on corner
Installation of the finished branch to the ongoing wide span tray.



Creation of a tee with add-on corner
Complete installation of a branch with add-on corner of type WEAS 110.



Mounting of mounting/branch piece
Add-on tee in combination with wide span cable tray. The side rail is removed for installation.



Suspended construction, concrete
Suspension suitable for wide span system in concrete with IS 8 support and anchor bolts.



Suspended construction, steel
Suspension suitable for wide span system with IS 8 support, clamped to steel girder.

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Special structure
Special structure made of U supports for acceptance of a cable support system.



Mounting example
Double-sided support mounting of U profiles with transverse traverse. Fastening of a wide span cable tray, type WKSG 110, with truss-head bolts on the transverse profile.

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Vertical ladder systems

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Installation principle, vertical ladder systems

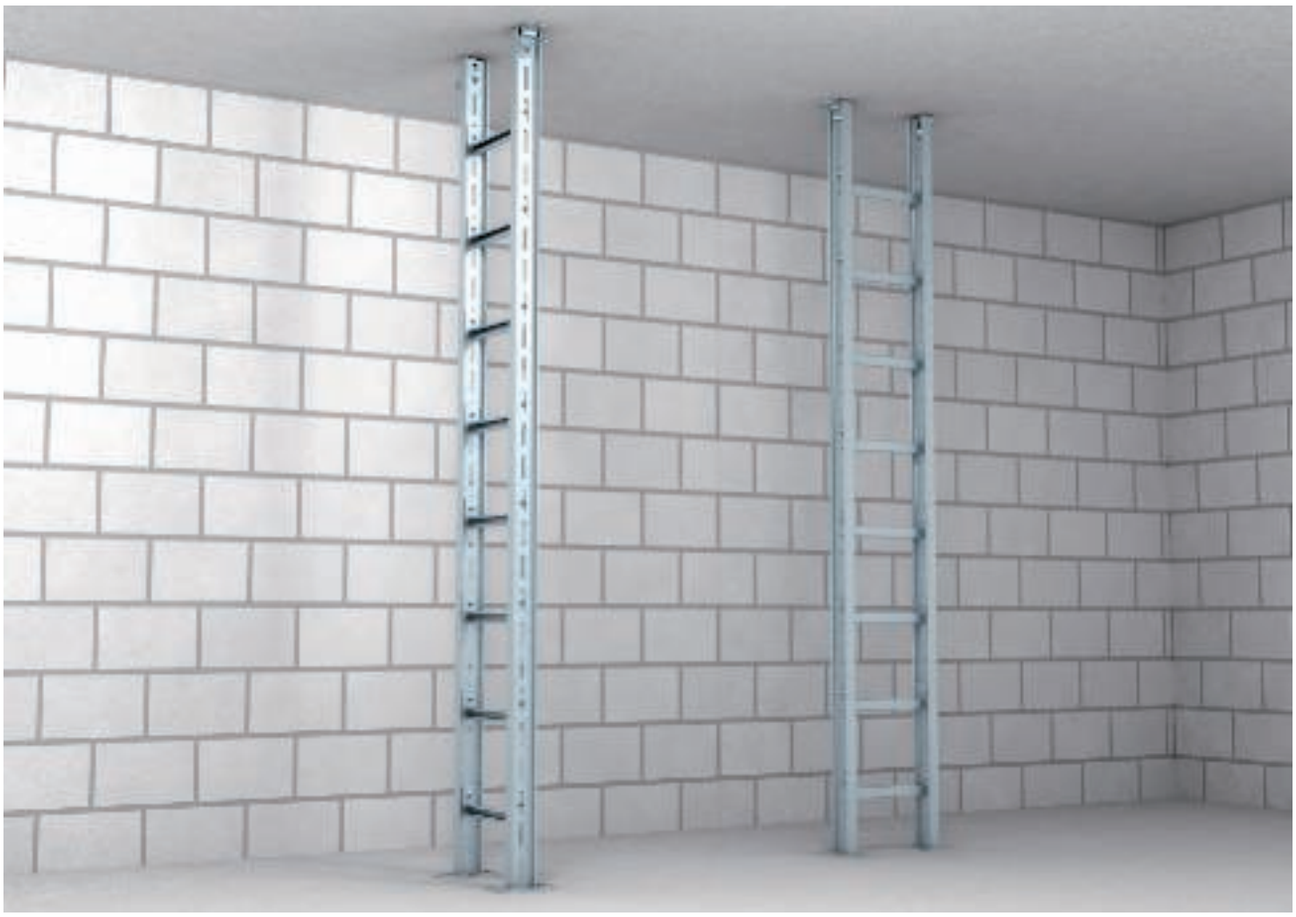
System components

1	Light-duty vertical ladder
2	Heavy-duty vertical ladder
3	Industrial vertical ladder
4	Cover with spacer
5	Rung seat with CPS4 rung



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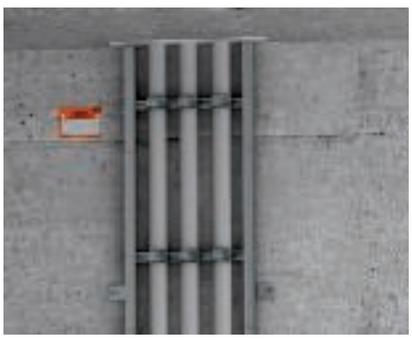
System description, vertical ladder systems



OBO vertical ladder systems for vertical routing of all kinds of cables. Available as light-duty vertical ladders with a side height of 45 mm, as a heavy-duty vertical ladder with U profiles and industrial vertical ladders with I profiles. Both the heavy-duty and industrial vertical ladders can be assembled in variable lengths. The side rails are standard profiles of type US 5 and IS 8, which are connected using the appropriate rungs. The continuous rail perforation of the system and the comprehensive accessories simplify and accelerate installation, which can take place either directly on the wall, clamped to a steel construction or also as a free-standing construction. The system is perfectly complemented with OBO clamp clips.

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Mounting aid, vertical ladder systems



Wall mounting application
Wall mounting of a vertical ladder with mounting angles.



Change of direction application
Implementation of a change of direction with heavy-duty vertical ladder, type SLM.



Free-standing vertical ladder application
Mounting example for free-standing industrial vertical ladders, type SLS, fastened to the ceiling and floor.



Straight connection of vertical ladders
Connection of vertical ladders, types LG and SSL 60, with connectors, type LVG.



Angle connection of cable ladders
Creation of flexible vertical ladder angles with angle connector, type LWVG.



Adjustable connection of cable ladders
Creation of flexible vertical ladder angles with adjustable connector, type LGVG.



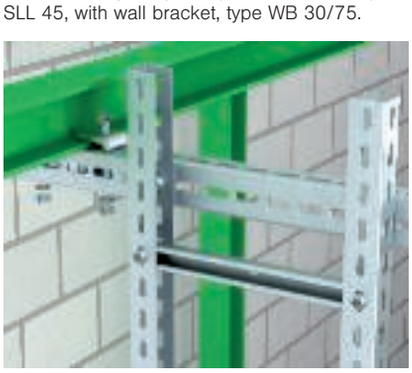
Wall mounting, light-duty vertical ladder
Wall mounting of light-duty vertical ladder, type SLL 45, with wall bracket, type WB 30/75.



Direct wall mounting
Direct fastening of the vertical ladders LG and SSL with anchor bolts on the wall.



Wall mounting, heavy-duty vertical ladder
Wall mounting of heavy-duty vertical ladder, type SLM 50, with mounting angle, type BW.



Vertical ladder installation on steel
Installation of the heavy-duty vertical ladder, type SLM 50, with cantilever beam made of U profile, on a steel construction.



Cable fastening with U clamp
Fastening of a cable to the rung with U clamp.



Fastening of industrial vertical ladder
Industrial vertical ladders are fastened to steel girders using mounting angle, type BW80/55.

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Fastening of C profile rung
Fastening of C profile rung, type CK 40, in industrial vertical ladders, type SLS 80.



Fastening of angle rung
Fastening of the angle rung, type WSK 40, in industrial vertical ladders, type SLS 80.



Ceiling fastening
Fastening of a industrial vertical ladder, type SLS 80, to the ceiling using mounting angle, type BW.



I support fastening on steel girder
Fastening of industrial vertical ladders, type SLS 80, to steel girders using support claw, type TGK 30/42.



Installation of free-standing vertical ladder
Free-standing installation of cable ladders in a room using mounting angle of type BW or head plates, type KUS 5 (for heavy-duty vertical ladders of type SLM 50), or type KI 8 (for industrial ladders, type SLS 80).



Illustration of vertical shaft
Illustration of complete vertical ladder mounting.



Rung seat fixed to IS 8 support
Fastening of the rung seat, type SA, with profile rail, type CPS 4, in I support.



Rung seat in steel girder
Direct fastening (clamping) of the rung seat, type SAA, with profile rail, type CPS 4, on steel girder.



Cover mounting, vertical
Installation of the cover with spacer on a vertical ladder.

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Luminaire support systems

Mounting aid, luminaire support systems 151

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System description, luminaire support systems



Whether in industry, in purpose-built buildings or in especially attractive buildings, OBO luminaire support systems simplify the installation of light systems in many areas of industry and buildings. They are also be suitable for flexible power and data supplies to machines and workstations. The OBO luminaire support system makes cable laying and the optimum positioning of lights child's play for any possible application. A pre-terminated system can be very easily created using the GST 18 connector system.

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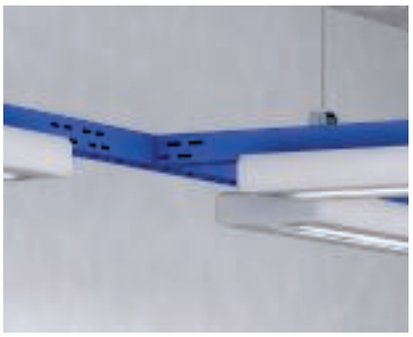
Mounting aid, luminaire support systems



Luminaire support tray application
Suspension of the luminaire support tray with chain and suspension bracket.



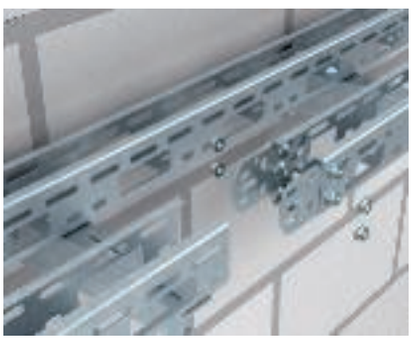
Luminaire support tray application
Suspension of a luminaire support tray with centre suspension MAH and threaded rod.



Luminaire support tray application, colour-coated
Optically attractive installation in open areas with colour-coated luminaire support systems.



Straight connection of luminaire support tray
Horizontal straight connection of the luminaire support tray, type LTR with straight connector set, type RV 607.



Longitudinal connection of luminaire support rail
Horizontal longitudinal connection of the luminaire support rail, type LTS, with straight and angle connectors, type VF AZK.



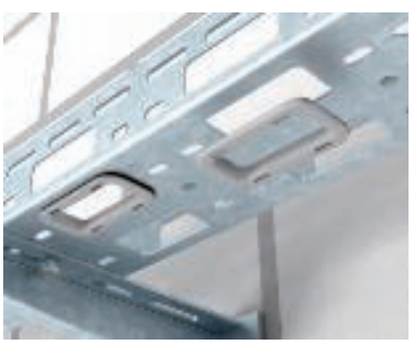
Horizontal angle connection
Horizontal angle connection of the luminaire support rail, type LTS, with straight and angle connectors, type VF AZK.



Vertical straight connection
Vertical straight connection of the luminaire support tray, type LTS, with two straight and angle connectors, type VF AZK.



Side rail cable protection ring
Insertion of the cable protection rings, type KSR 910, in the side rail of the luminaire support rail.



Floor cable protection ring
Insertion of the cable protection rings, type KSR 915, in the base of the luminaire support rail.



Chain suspension
Implementation of a chain suspension for luminaire support systems with anchors, ceiling hook, type 948/TG6 and suspension chain, type LTK-K.



Centre suspension
Efficient creation of centre suspensions. The luminaire support tray is fastened to the central suspension hanger without bolts.



Pre-wired luminaire supports
Mounting of a pre-terminated luminaire beneath a luminaire support tray.

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Mounting of luminaire support fitting
Mounting of luminaire support fitting by simple interconnection of fitting and luminaire support tray.



Cover mounting for luminaire support tray fittings
When mounting the covers, mount the fitting covers first and then straight covers. The straight covers overlap the fitting covers, securing them.

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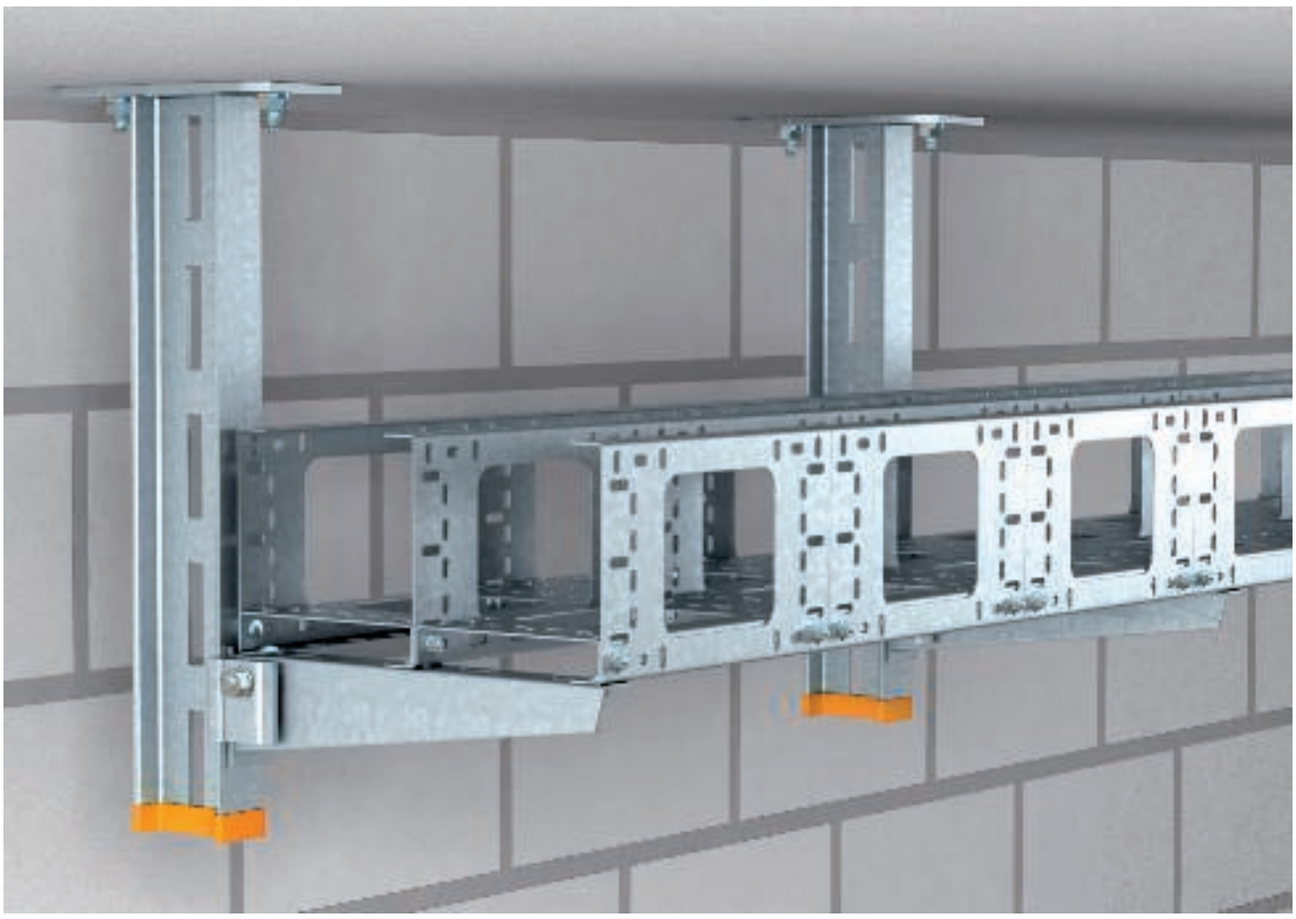


Modular systems

Mounting aids, BKK system 157

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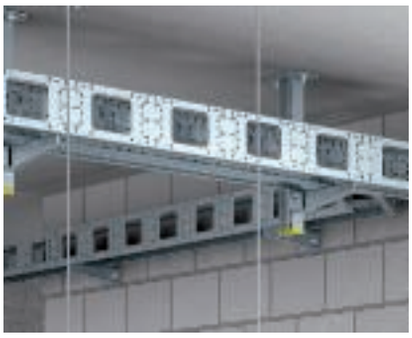
System description, construction kit systems



The modular systems - the product range with infinite opportunities. Exiting branches to individual consumers can be implemented with the AZ small duct. The BKK system can be used as a cable link in chemical plants, where large distances and high cable loads must be bridged safely with some fairly large support spacings. Electrical drives, such as motors, etc., are connected using the motor connection column. Thus the modular system, together with the individually combinable range of accessories, is the universal solution to any task.

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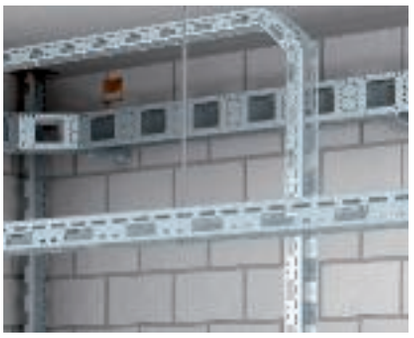
Mounting aid, modular systems



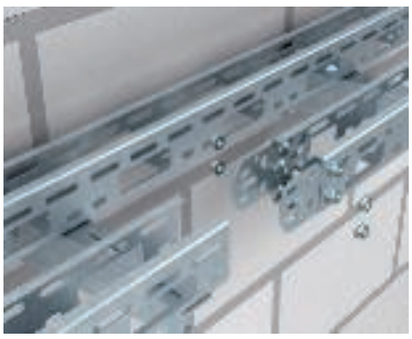
BKK system application
Installation of the BKK system under the ceiling using IS 8 supports.



Motor connection column
Coupling of electric drives to the motor connection column.



AZ channel application
Example of installing the AZ channel as a suspension with threaded rod and the implementation of horizontal-vertical transitions.



Straight connection of AZ channel
Straight connection of AZ channel with connectors of type VF AZK.



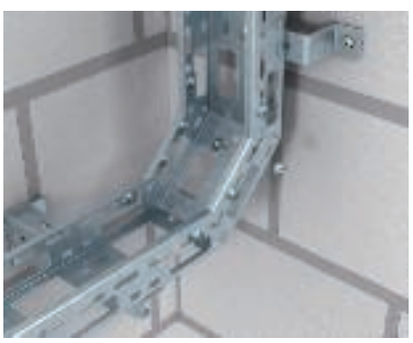
90° angle connection
Angle connection of AZ channels with connectors of type VF AZK.



Vertical straight connection
Vertical angle connection of AZ channels with two connectors of type VF AZK.



90° vertical bend, falling
Installation of a falling vertical bend with adjustable connectors, type SV.



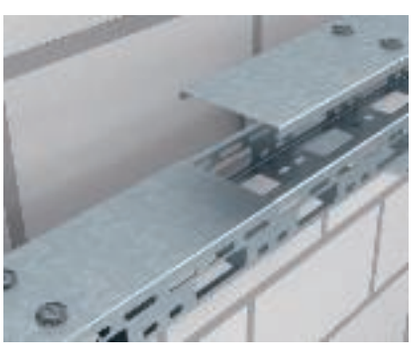
90° vertical bend, rising
Installation of a rising vertical bend with adjustable connectors, type SV.



Side rail cable protection ring
Insertion of the cable protection rings, type KSR-DR 910, in the side rail of the AZ channel.



Floor cable protection ring
Insertion of the cable protection rings, type KSR 915, in the bottom of the AZ channel.



Cover fastening
Installation of the cover, type AZDMD, on an AZ channel.



Installation of motor connection column with column foot
Fastening of the motor connection column, type MAS 140/10, to the floor using column foot, type SF 140/11.

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Installation of motor connection column with mounting bracket
Fastening of the motor connection column, type MAS 140/10, to the wall using mounting brackets, type BF 140/10.



Cover fastening
Fastening of the cover, type MASD 90, to the motor connection column.



Device plate mounting
Installation of the device plate, type GP, to the motor connection column.



Joint connection
Connection of straight joints in the BKK system using the joint connector, type SSV.



Installation of basic profile
Installation of the basic profile in the BKK system.



BKK straight fastening variant
Possible mounting variant of BKK profiles with straight joint.



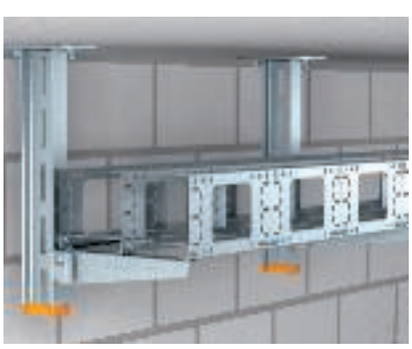
BKK offset fastening variant
Possible mounting variant of BKK profiles with offset joint. This mounting variant provides increased joint stability.



Angle connection
Simple bend creation with hinge connectors, type SV. For this, the side rails must be cut.



Mounting example
Example of U support installation with transverse profile and modular system.



Finished installation
Illustration of complete modular system mounting.

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Stainless steel systems

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Mounting aid, stainless steel systems



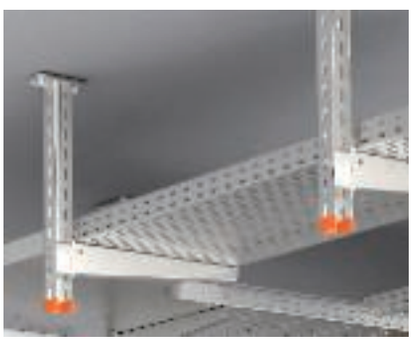
Ceiling mounting
Standard mounting of U supports US 3 K, US 5 K and US 7 K on the ceiling.



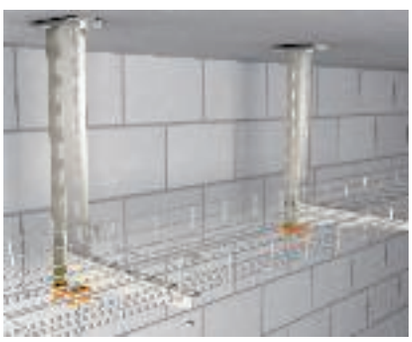
Wall mounting application
Direct fixing of wall and support brackets of type AW... on the wall.



Centre suspension with threaded rod
Cover fastening with threaded rod and central suspension for small loads.



Complete mounting of a ceiling fastening
Illustration of complete ceiling mounting with cable trays.



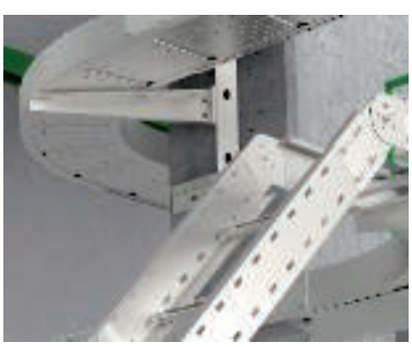
Mesh cable tray mounting
Mesh cable tray mounting with support, type US 3 K/... and appropriate wall and support bracket AW 15/...



Jump application
Implementation of vertical jumps with adjustable connectors, e.g. for ceiling joists.



Wall mounting application
Direct wall mounting of wide span systems.



Wide span fittings application
Mounting example for horizontal and vertical changes of direction for wide span systems.



Luminaire support tray application
Suspension of the luminaire support tray with chain and suspension bracket.



Complete mounting of a cable tray system
Illustration of a multi-layer cable tray system mounted on the ceiling.

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Test marks

	Verband der Elektrotechnik, Elektronik, Informationstechnik e.V., Germany
	FIMKO, Finland
	KEMA-KEUR, Netherlands
	Österreichischer Verband für Elektrotechnik, Austria
	Eidgenössisches Starkstrominspektorat, Switzerland
	NEMKO, Norway
	SEMKO An Inchcape Testing Services Company, Sweden
	Indication of metric products
	DEMKO, Danmarks Elektriske Materielkontrol, Denmark
	Sähkötarkastuskeskus Elinspektionscentralen Electrical Inspectorate, Finland
	Underwriters Laboratories Inc., USA
	Underwriters Laboratories Inc., USA
	Canadian Standards Association, Canada
	CEBEC, Belgium
	STOWARZYSZENIE ELEKTRYKÓW POLSKICH, Poland
	Forschungs- und Materialprüfungsanstalt, Germany
	Shock-tested, Bundesamt für Zivilschutz, Germany
	MAGYAR ELEKTROTECHNIKAI ELLENŐRZŐ INTÉZET Budapest, Hungary
DIBt	Deutsches Institut für Bautechnik Berlin, Germany
	ELEKTROTECHNICKÝ ZKUŠEBNÌ ÚSTAV, Czech Republic
	Test marks for technical resources, VDE Prüf- und Zertifizierungsinstitut Offenbach, Germany
	RINA 1861, Ship Classification, Certification and Services
	American Bureau of Shipping, USA

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Pictogram explanation

Fire protection

S90	Resistance time in minutes of the installation system during a fire
S30	Resistance time in minutes of the installation system during a fire

Materials

	Flat steel
	Angular steel
	U steel

Materials

Alu	Aluminium
Alu/St	Aluminium/Steel
VA	Stainless steel, grade 434
VA	Stainless steel, grade 304
VA	Stainless steel, grade 305
VA	Stainless steel, grade 301
VA	Stainless steel, grade 316
VA	Stainless steel, grade 316 L
VA	Stainless steel, grade 316 L
VA	Stainless steel, grade 354/1
VA	Stainless steel, grade 316 Ti
VA	Stainless steel, A2
VA	Stainless steel, A4
VA	Stainless steel, A5
St	Steel

Surfaces

F	Hot-dip galvanised
GCL	electro-galvanised, yellow-chromated
DD	Strip galvanised zinc/aluminium, Double Dip
FS	Strip-galvanised
G	Electro-galvanised
GR	Primed
FT	Hot-dip galvanised
GA	Zinc-aluminium coated, Galfan

Miscellaneous

PE	BET-tested to DIN EN 61537
	Halogen-free; without chlorine, fluorine and bromine
	Magnetic shield insulation
	Easy mounting component
CO_2	CO2-reduced
> 30%	Suitable for sprinkler systems

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Metal materials

Alu — **Aluminium**

Alu/St — **Aluminium/Steel**

VA (1.4113) — **Stainless steel, grade 434**

VA (1.4301) — **Stainless steel, grade 304**

VA (1.4303) — **Stainless steel, grade 305**

VA (1.4310) — **Stainless steel, grade 301**

VA (1.4401) — **Stainless steel, grade 316**

VA (1.4404) — **Stainless steel, grade 316 L**

VA (1.4435) — **Stainless steel, grade 316 L**

VA (1.4529) — **Stainless steel, grade 354/1**

VA (1.4571) — **Stainless steel, grade 316 Ti**

V2A — **Stainless steel, A2**

V4A — **Stainless steel, A4**

A5 — **Stainless steel, A5**

St — **Steel**

Zn — **Die-cast zinc**

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CR — Chloroprene rubber
Temperature resistance:
permanently up to 120 °C, briefly up to approx. 150 °C and to approx. minus 30 °C*.
Resistant to
Oils and acids.
Unstable with
Fuels.

FA — Fibre-proof material DIN 28091
To DIN 28091, asbestos-free
Temperature resistance:
up to 300 °C.

GFK — Fibre-glass-reinforced plastic
Temperature resistance:
-50 to 130 °C.
Resistant to
High chemical resistance
Corrosion resistance
UV light resistance

NR — Natural rubber
Temperature resistance:
permanently up to 80 °C, briefly up to approx. 120 °C and to approx. minus 40 °C*.
Resistant to
Most acids.
Unstable with
Fuels, solvents, oils.

PA — Polyamide
Temperature resistance:
permanently up to approx. 90 °C, briefly up to about 130 °C and to about minus 40 °C*.
Chem. resistance generally as for polyethylene.
Resistant to
Petrol, benzene, diesel oil, acetone, solvents for paints and lacquers, oils and greases.
Unstable with
Bleach, most acids, chlorine.
Risk of tension cracking
Low in air-humid conditions; only with some aqueous salt solutions. Highly desiccated parts (high temperature and extremely low air humidity) are highly sensitive to fuels and various solvents.

PA/GF — Polyamide, fibreglass reinforced
Temperature resistance:
permanently up to 100–110 °C, briefly up to 160 °C and to about minus 40 °C*.
Resistant to
Petrol, benzene, diesel oil, acetone, solvents for paints and lacquers, oils and greases.
Slightly susceptible to stress-cracking.
Unstable with
Bleach, most acids, chlorine.
Risk of tension cracking
Low in air-humid conditions; only with some aqueous salt solutions. Highly desiccated parts (high temperature and extremely low air humidity) are highly sensitive to fuels and various solvents.

PC — Polycarbonate
Temperature resistance:
permanently up to approx. 110 °C (in water 60 °C), briefly up to 125 °C, and to below minus 35 °C.
Resistant to
Petrol, turpentine, most weak acids.
Unstable with
Acetone, benzene, chlorine, methylene chloride, most concentrated acids.
Risk of tension cracking
Relatively low.
Media which can cause tension cracking include benzene, aromatic hydrocarbons, methanol, butanol, acetone, turpentine.

POM — Polyacetal (polyoxymethylene, polyformaldehyde)
Temperature resistance:
permanently up to approx. 100 °C, briefly up to approx.130 °C and to approx. minus 40 °C.
Resistant to
Acetone, ether, petrol, weak acetic acid, benzene, heating oil, oils and greases, toluene.
Unstable with
Methylene chloride, trichloroethylene, hydrochloric acid, nitric acid, sulphuric acid.
Risk of tension cracking
Low.

PE — Polyethylene
Temperature resistance:
hard types permanently up to about 90 °C, briefly up to about 105 °C, soft types permanently up to about 80 °C, briefly up to about 100 °C and to about minus 40 °C*.
Resistant to
Alkalis and inorganic acids.
Conditionally resistant to
Acetone, organic acids, petrol, benzene, diesel oil, most oils.
Unstable with
Chlorine, hydrocarbons, oxidising acids.
Risk of tension cracking
Relatively high.
Stress cracks can be caused by, among other things, acetone, various alcohols, formic acid, ethanol, petrol, benzene, butyric acid, acetic acid, formaldehyde, various oils, petroleum, propanol, nitric acid, hydrochloric acid, sulphuric acid, soap solutions, turpentine, trichloroethylene, citric acid.

PBPT — Polybutylene terephthalate
Thermoplastic polyester
Temperature resistance:
permanently up to 120 °C, briefly up to 140 °C and to approx. minus 40 °C.
Resistant to
Petrol, diesel oil, most weak acids, oils and greases.
Conditionally resistant to
Acetone, ammonia, benzene.
Unstable with
Strong acids, chlorine, fluorine, bromine vapour, bleach, trichloroethylene, methylene chloride.
Risk of tension cracking
Low.

PS — Polystyrene
Temperature resistance:
Because of its relatively high sensitivity to the effects of chemicals, its use is not recommended at temperatures above normal room temperature, about 25 °C.
Resistance to cold: to about minus 40 °C*.
Resistant to
Alkalis, most acids, alcohol.
Conditionally resistant to
Oils and greases.
Unstable with
Butyric acid, concentrated nitric acid, concentrated acetic acid, acetone, ether, petrol and benzene, solvents for paints and lacquers, chlorine, diesel fuel.
Risk of tension cracking
Relatively high.
Stress cracks can be caused by, amongst other things, acetone, ether, petrol, cyclohexane, heptane, methanol, propanol and the softeners used in some PVC cable mixes.

PVC — Polyvinylchloride
Temperature resistance:
permanently up to 65 °C, briefly up to 75 °C and to about minus 30 °C.
Resistant to
Weak acids, alkalis, oils and greases, petrol.
Unstable with
Strong acids, benzene, acetone, iodine, toluene, trichloroethylene.
Risk of tension cracking
Low, only with some solvents such as benzene and acetone.

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SBR — Styrene-butadiene rubber

Temperature resistance:
permanently up to 80 °C, briefly up to approx.120 °C and to approx. minus 30 °C*.

Resistant to
Most acids.

Unstable with
Fuels, solvents, oils.

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Mounting systems

Always indicate the item number when ordering.

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Mounting systems


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Wall brackets 203


Wall and clamping bracket 204


I support systems 207


Support bracket IS8 211


Beam clamp systems 214


Construction and profile rail systems 218


Cable support bracket system 233

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TP wall and ceiling bracket



Type	For width mm	F in kN ceiling kN	F in kN Wall kN	Pack. pcs	Weight kg/100 pcs.	Item No.
TPD 145 FS	100	1.3	1.4	6	48,000	**6363806**
TPD 245 FS	200	0.8	0.87	5	66,000	**6363814**
TPD 345 FS	300	0.5	0.55	5	78,000	**6363822**
TPD 445 FS	400	—	—	5	94,000	**6363826**
TPD 545 FS	500	—	—	5	108,000	**6363829**
TPD 145 FT	100	1.3	1.4	6	54,000	**6363861**
TPD 245 FT	200	0.8	0.87	5	69,000	**6363865**
TPD 345 FT	300	0.5	0.55	5	83,000	**6363869**

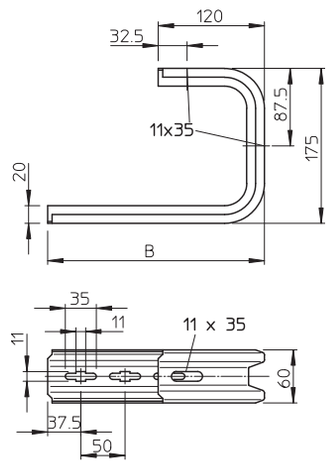
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Important! If the ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
Max. side height of the cable support system 60 mm.

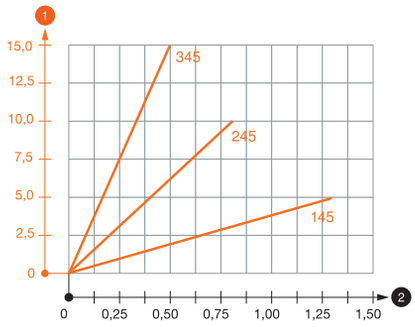
TP wall and ceiling bracket for universal use.

Dimensions



Type	Dimension B mm	Dimension H mm
TPD 145 FS	145	175
TPD 245 FS	245	175
TPD 345 FS	345	175
TPD 445 FS	445	175
TPD 545 FS	545	175

Load



Load diagram, ceiling bracket TPD

1 Bending of the bracket tip at permitted bracket load

2 Approved bracket load in kN without man load

— Load curve with bracket lengths in mm

Characteristic anchor load values for TPD wall and ceiling bracket

Wall fastening						
F F		Max. load F [kN]				
		Bracket length [mm]				
	Anchor type	145	245	345	445	545
	BZ-U 8-30/95	1,00	0,70	0,50	0,40	0,30
	BZ-U 10-30/110	1,50	0,90	0,55	0,45	0,35

Ceiling fastening						
		Max. load F [kN]				
		Bracket width [mm]				
	Anchor type	145	245	345	445	545
	BZ-U 8-30/95	1,30	0,80	0,50	0,35	0,25
	BZ-U 10-30/110	1,30	0,80	0,50	0,35	0,25

Max. total load F = cable weight + cable tray + ceiling bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25.

Always indicate the item number when ordering.

TP wall and ceiling bracket

Type	For width mm	F in kN ceiling kN	F in kN Wall kN	Pack. pcs	Weight kg/100 pcs.	Item No.
TPDG 145 FS	100	1.3	1.4	6	53,000	**6365906**
TPDG 195 FS	150	0.95	1.05	6	59,000	**6365914**
TPDG 245 FS	200	0.8	0.87	5	68,000	**6365922**
TPDG 345 FS	300	0.5	0.55	5	81,000	**6365949**
TPDG 145 FT	100	1.3	1.4	6	56,000	**6365977**
TPDG 245 FT	200	0.8	0.87	5	71,000	**6365981**
TPDG 345 FT	300	0.5	0.55	5	86,000	**6365985**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

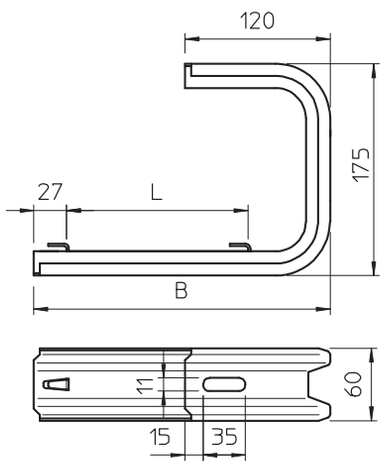
Important! If the ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
Max. side height of the cable support system 60 mm.

TP wall and ceiling bracket with clamping lugs for screwless mesh cable tray fastening.



Dimensions

Type	Dimension B mm	Dim. L mm
TPDG 145 FS	145	110
TPDG 195 FS	195	160
TPDG 245 FS	245	210
TPDG 345 FS	345	310



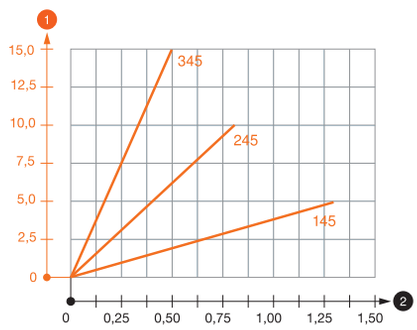
Load diagram, ceiling bracket TPDG

1 Bending of the bracket tip at permitted bracket load

2 Approved bracket load in kN without man load

— Load curve with bracket lengths in mm

Load



Characteristic anchor load values for TPDG wall and ceiling bracket

Wall fastening

Anchor type	Max. load F [kN] Bracket length [mm] 145	245	345	445	545
BZ-U 8-30/95	1,00	0,70	0,50	0,40	0,30
BZ-U 10-30/110	1,50	0,90	0,55	0,45	0,35

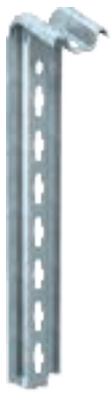
Ceiling fastening

Anchor type	Max. load F [kN] Bracket width [mm] 145	245	345	445	545
BZ-U 8-30/95	1,30	0,80	0,50	0,35	0,25
BZ-U 10-30/110	1,30	0,80	0,50	0,35	0,25

Max. total load F = cable weight + cable tray + ceiling bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25.

Always indicate the item number when ordering.

TP support



Type	Length mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
TPS 445 FS	445	1.05	15	73,000	**6364322**
TPS 545 FS	545	0.8	15	80,000	**6364349**
TPS 645 FS	645	0.61	15	99,000	**6364365**
TPS 445 FT	445	1.05	15	75,000	**6364403**
TPS 545 FT	545	0.8	15	89,000	**6364500**
TPS 645 FT	645	0.61	15	103,000	**6364608**

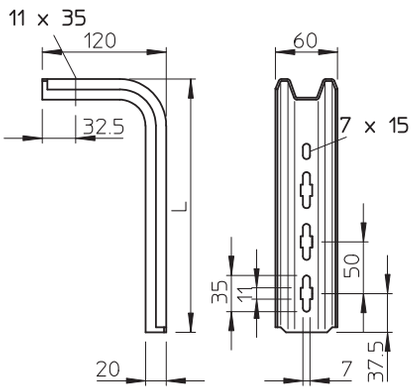
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

If the profile is fastened directly to the ceiling or the profile is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.
Important: only use brackets of length 345 mm or less.

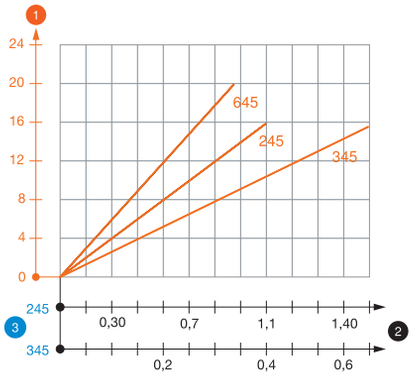
TP support for fastening to horizontal concrete ceilings.

Dimensions



Type	Length mm
TPS 445 FS	445
TPS 545 FS	545
TPS 645 FS	645

Load



Load diagram, TP supports, type TPS

1. Bending of the end of the suspended support at permitted bracket load
2. Approved bracket load in kN without man load
3. Bracket length in mm

— Load curves with support lengths in mm

Characteristic anchor load values for TP support

Single-sided load				
	Max. load F [kN]			
	Bracket width [mm]			
Anchor type	145	245	345	
BZ-U 8-30/95	1,50	1,00	0,65	
BZ-U 10-30/110	1,50	1,50	0,65	

Double-sided load			
	Max. load F [kN]		
	Bracket width [mm]		
Anchor type	145	245	345
BZ-U 8-30/95	1,50	1,50	1,20
BZ-U 10-30/110	1,50	1,50	1,50

Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing ai = 17 cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

Always indicate the item number when ordering.

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TP support / wall and support bracket

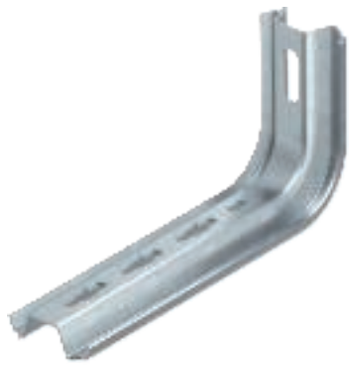
Type	For width mm	F in kN	Pack. pcs	Weight kg/100 pcs.	Item No.
TPSA 145 FS	100	1.5	50	32,000	**6364101**
TPSA 245 FS	200	0.9	20	45,000	**6364209**
TPSA 345 FS	300	0.55	20	59,000	**6364306**
TPSA 145 FT	100	1.5	50	33,000	**6364659**
TPSA 195 FT	150	1	20	40,000	**6364683**
TPSA 245 FT	200	0.9	20	47,000	**6364667**
TPSA 345 FT	300	0.55	20	62,000	**6364675**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

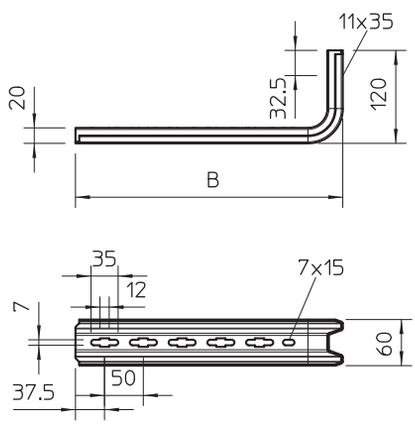
If the profile is fastened directly to the ceiling or the profile is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.

TP support/bracket for fastening to horizontal concrete ceilings and walls.



Dimensions

Type	Dimension B mm	Dimension H mm
TPSA 145 FS	145	120
TPSA 245 FS	245	120
TPSA 345 FS	345	120



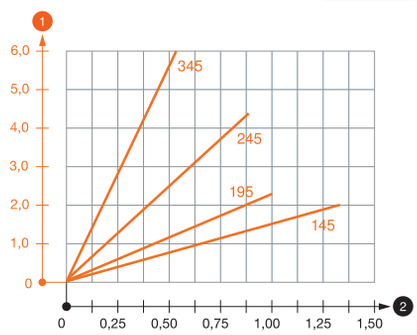
Load diagram, bracket TPSA

1 Bending of the bracket tip at permitted bracket load

2 Approved bracket load in kN without man load

— Load curve with bracket lengths in mm

Load



Characteristic anchor load values for TP bracket

Wall fastening					
F F		Max. load F [kN]			
		Bracket width [mm]			
	Anchor type	145	195	245	345
	BZ-U 8-30/95	1,00	0,80	0,70	0,50
	BZ-U 10-30/110	1,50	1,00	0,90	0,55

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Always indicate the item number when ordering.

TP support / wall and support bracket



Type	For width mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
TPSAG 145 FS	100	1.5	50	33,000	**6366015**
TPSAG 195 FS	150	1	20	41,000	**6366023**
TPSAG 245 FS	200	0.9	20	48,000	**6366031**
TPSAG 345 FS	300	0.55	20	61,000	**6366066**
TPSAG 145 FT	100	1.5	50	33,000	**6366131**
TPSAG 195 FT	150	1	20	42,000	**6366135**
TPSAG 245 FT	200	0.9	20	49,000	**6366139**
TPSAG 345 FT	300	0.55	20	65,000	**6366143**

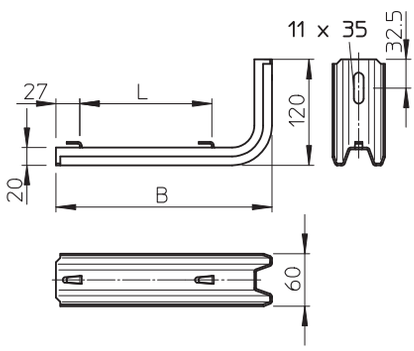
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

If the bracket is fastened directly to the wall or the profiles are screwed together, then, for reasons of stability, always use the spacer, type DS 4.

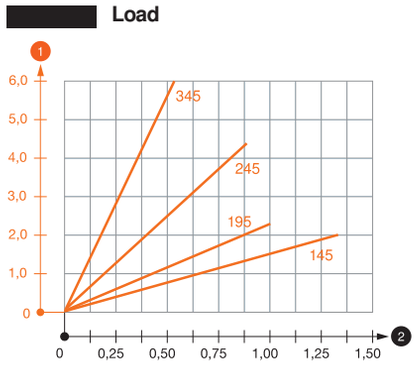
TP bracket with clamping lugs for screwless mesh cable tray fastening.

Dimensions



Type	Dimension B mm	Dim. L mm
TPSAG 145 FS	145	50
TPSAG 195 FS	195	100
TPSAG 245 FS	245	150
TPSAG 345 FS	345	250

Load



Load diagram, bracket TPSAG

1 Bending of the bracket tip at permitted bracket load

2 Approved bracket load in kN without man load

— Load curve with bracket lengths in mm

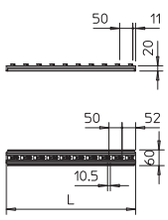
Characteristic anchor load values for TP bracket

Wall fastening					
F F		Max. load F [kN]			
		Bracket width [mm]			
	Anchor type	145	195	245	345
	BZ-U 8-30/95	1,00	0,80	0,70	0,50
	BZ-U 10-30/110	1,50	1,00	0,90	0,55

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

TP profile





Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TPSG 150L FS	150	20	20,000	**6366533**
TPSG 200L FS	200	20	26,500	**6366536**
TPSG 250L FS	250	20	33,000	**6366539**
TPSG 300L FS	300	30	39,500	**6366542**
TPSG 400L FS	400	30	52,500	**6366545**
TPSG 500L FS	500	20	65,500	**6366548**
TPSG 600L FS	600	20	78,500	**6366551**
TPSG 700L FS	700	10	91,400	**6366554**

St Steel /pc.

FS Strip-galvanised

TP profile with clamping lugs.

Always indicate the item number when ordering.

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TP profile

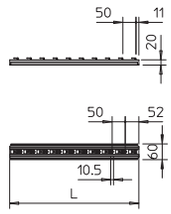
Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TPSG 3000 FS	3000	1	401,700	**6366090**
TPSG 3000 FT	3000	1	461,000	**6366093**

/pc.

St Steel

FS Strip-galvanised FT Hot-dip galvanised

TP profile with clamping lugs.





TP profile

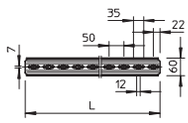
Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TPS 3000 FS	3000	1	441,000	**6364802**

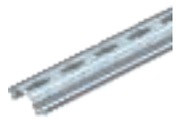
/pc.

St Steel

FS Strip-galvanised

TP profile, perforated, in supply length 3,000 mm.





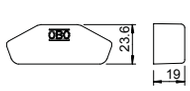
End cap

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
TPS KS OR	Pastel orange	10	0,700	**6364625**

/pc.

PE Polyethylene

End cap to cover ends of TP supports.





Spacer

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DS 4 FS	20	3,700	**6416551**
DS 4 FT	20	3,800	**6416586**

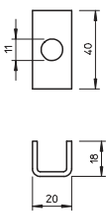
/pc.

St Steel

FS Strip-galvanised FT Hot-dip galvanised

For static reasons, the spacer is always used to prevent the profile from deforming when the fastening bolts are tightened.

Spacer for use in profiles, type TP.





Truss-head bolt

Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRS 10X25 F TPS	M10 x 25	25	10	18	50	4,300	**6407536**

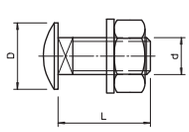
/100 pc.

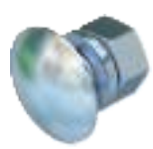
St Steel

F Hot-dip galvanised

The truss-head bolt can be used in combination with hot-dip and double-dip galvanised articles.

Truss-head bolt with square neck. With washer and hexagonal nut.





Truss-head bolt

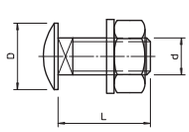
Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Grade	Pack. pcs	Weight kg/100 pcs.	Item No.
FRS 10x25 TPS A2	M10x25	25	10	18	A2-70	50	4,000	**6407537**

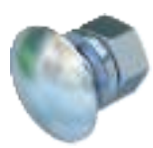
/100 pc.

V2A Stainless steel, A2

The truss-head bolt can be used in combination with hot-dip and double-dip galvanised articles.

Truss-head bolt with square neck. With washer and hexagonal nut.

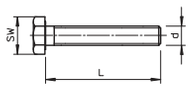




Always indicate the item number when ordering.

Hexagonal bolt





Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 10X60 F	M10 x 60	60	10	17	20	6,000	**6408516**

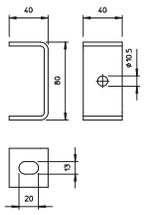
St Steel /100 pc.

F Hot-dip galvanised

Hexagonal bolt for universal fixing of structure components.

Ceiling bracket





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DB FT	20	16,000	**6356109**

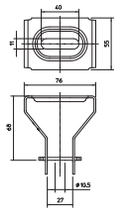
St Steel /pc.

FT Hot-dip galvanised

Ceiling bracket for threaded rod suspension.

Ceiling bracket, variable





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DBV FS	20	18,200	**6356055**

St Steel /pc.

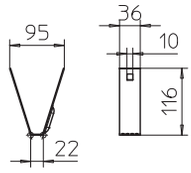
FS Strip-galvanised

The locked threaded rod seat offers the option of infinite angle adjustment.

Ceiling bracket for suspension with threaded rods. The variable adjustment permits universal use.

Ceiling bracket, trapezoidal





Type	Material thickness mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
TPB 100 FS	1.5	0.8	20	9,900	**6357506**

St Steel /pc.

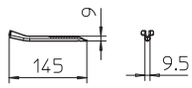
FS Strip-galvanised

Important: Observe the statics of the trapezoidal metal ceiling.

Ceiling bracket for fastening to standard trapezoidal ceilings.

Splint for trapezoidal ceiling bracket





Type	Material thickness mm	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
TPB R FS	1.5	0.8	20	3,700	**6357536**

St Steel /pc.

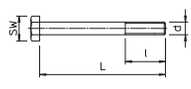
FS Strip-galvanised

Important: Observe the statics of the trapezoidal metal ceiling.

Splint for fastening and securing the ceiling bracket to trapezoidal ceilings.

Hexagonal bolt





Type	Dimension mm	Dim. L mm	Dim. l mm	Dim. d mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 10X110 G	M10 x 110	110	30	10	17	20	9,500	**6418244**

St Steel /100 pc.

G Electrogalvanised

Hexagonal bolt with washers and hexagonal nut.

Always indicate the item number when ordering.

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Threaded rod

Type	Thread	Dim. d mm	Dim. L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2078 M8 1M G	M8	8	1000	10	30,000	**3141128**
2078 M10 1M G	M10	10	1000	10	49,000	**3141209**
2078 M12 1M G	M12	12	1000	10	62,000	**3141306**
2078 M8 2M G	M8	8	2000	10	60,000	**3141136**
2078 M10 2M G	M10	10	2000	10	98,000	**3141140**
2078 M12 2M G	M12	12	2000	10	140,000	**3141144**

St Steel /100 pc.

G Electrogalvanised

Threaded rod to DIN 976.





Threaded rod VA

Type	Thread	Dim. d mm	Dim. L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2078 M8 1M V2A	M8	8	1000	10	30,000	**3141310**
2078 M10 1M V2A	M10	10	1000	10	49,000	**3141312**
2078 M12 1M V2A	M12	12	1000	10	70,000	**3141314**

V2A Stainless steel, grade 304 /100 pc.

Threaded rod to DIN 976.





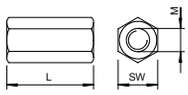
Connection sleeve

Type	Thread	Dim. L mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
12005 M8 G	M8	30	13	50	2,000	**6410081**
12005 M10 G	M10	40	17	50	6,000	**6410103**
12005 M12 G	M12	40	19	25	7,000	**6410111**

St Steel /100 pc.

G Electrogalvanised

Connection sleeve with continuous internal thread.



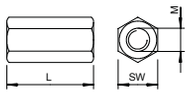


Connection sleeve VA

Type	Thread	Dim. L mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
12005 M8 V2A	M8	30	13	50	2,000	**6410154**
12005 M10 V2A	M10	40	17	50	6,000	**6410162**

V2A Stainless steel, grade 304 /100 pc.

Connection sleeve with continuous internal thread.





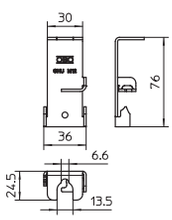
Side holder, universal

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
SHU M12 FS	50	5,100	**6015322**
SHU M12 DD	50	5,100	**6015324**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Side holder to fasten cable trays, mesh cable trays and cable ladders to ceilings using a threaded rod.

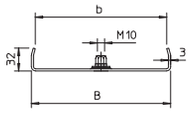




Always indicate the item number when ordering.

Centre suspension for cable tray, side height 35





Type	For width mm	For threaded rod	Dimension B mm	Dimension b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MAH 35 100 FS	100	M10	95	84	20	9,400	**6358690**
MAH 35 200 FS	200	M10	195	184	20	18,600	**6358692**
MAH 35 300 FS	300	M10	295	284	20	27,700	**6358694**

St Steel /pc.

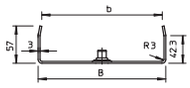
FS Strip-galvanised

The central suspension possesses a rotatable M10 threaded sleeve. When filling, ensure an even distribution of the load (avoid one-sided filling).

Central suspension for cable trays with rolled side rail of side height 35 mm.

Centre suspension for cable tray, side height 60





Type	For width mm	For threaded rod	Dimension B mm	Dimension b mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
MAH 60 100 FS	100	M10	94	84	0.9	20	18,500	**6358705**
MAH 60 150 FS	150	M10	144	134	0.65	20	23,000	**6358709**
MAH 60 200 FS	200	M10	195	184	0.45	20	27,600	**6358713**
MAH 60 300 FS	300	M10	295	284	0.22	20	36,700	**6358717**
MAH 60 400 FS	400	M10	395	384	–	20	46,000	**6358720**
MAH 60 100 FT	100	M10	94	84	0.9	20	18,500	**6358752**
MAH 60 150 FT	150	M10	144	134	0.65	20	23,000	**6358756**
MAH 60 200 FT	200	M10	195	184	0.45	20	27,600	**6358760**
MAH 60 300 FT	300	M10	295	284	0.22	20	36,700	**6358764**

St Steel /pc.

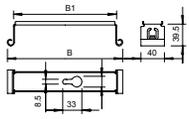
FS Strip-galvanised FT Hot-dip galvanised

The central suspension possesses a rotatable M10 threaded sleeve. When filling, ensure an even distribution of the load (avoid one-sided filling).

Central suspension for cable trays with rolled side rail of side height 60 mm.

Centre suspension for cable tray





Type	For width mm	Dimension B mm	Dimension B1 mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MAH 050 FS	50	47	26	50	5,000	**6358500**
MAH 075 FS	75	72	51	50	6,500	**6358510**
MAH 100 FS	100	97	76	50	7,500	**6358527**
MAH 150 FS	150	147	126	50	8,000	**6358535**
MAH 200 FS	200	197	176	50	12,500	**6358543**

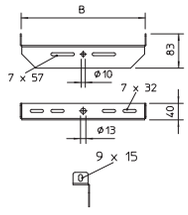
St Steel /pc.

FS Strip-galvanised

Central suspension for cable trays for attachment from the side rail of the cable tray.

Central suspension, universal





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MAHU 200 FS	200	20	27,500	**6358853**
MAHU 300 FS	300	20	39,300	**6358856**
MAHU 400 FS	400	20	68,800	**6358860**
MAHU 500 FS	500	20	85,800	**6358864**
MAHU 600 FS	600	15	103,300	**6358868**
MAHU 200 FT	200	20	28,700	**6358884**
MAHU 300 FT	300	20	43,300	**6358888**
MAHU 400 FT	400	20	71,300	**6358892**
MAHU 500 FT	500	20	89,100	**6358896**
MAHU 600 FT	600	15	107,000	**6358900**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Preferred use of this central suspension in combination with cable ladders and mesh cable trays.

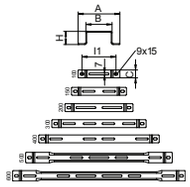
Universal central suspension for fastening to threaded rods and supports.

Always indicate the item number when ordering.

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Stand-off bracket

Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBL 50 100 FS	100	20	15,500	**6015506**
DBL 50 150 FS	150	20	18,800	**6015514**
DBL 50 200 FS	200	20	21,000	**6015522**
DBL 50 300 FS	300	20	36,900	**6015530**
DBL 50 400 FS	400	20	46,300	**6015549**
DBL 50 500 FS	500	25	57,200	**6015552**
DBL 50 600 FS	600	20	65,800	**6015555**
DBL 50 100 FT	100	20	16,000	**6015565**
DBL 50 150 FT	150	20	19,400	**6015573**
DBL 50 200 FT	200	20	22,000	**6015581**
DBL 50 300 FT	300	20	38,000	**6015603**
DBL 50 400 FT	400	20	47,700	**6015611**
DBL 50 500 FT	500	25	58,900	**6015614**
DBL 50 600 FT	600	20	67,800	**6015617**





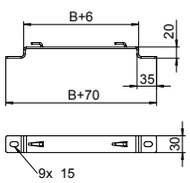
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Stand-off bracket for cable trays and mesh cable trays.

Stand-off bracket

Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBLG 20 050 FS	50	20	10,300	**6015646**
DBLG 20 100 FS	100	20	13,800	**6015654**
DBLG 20 150 FS	150	20	17,400	**6015658**
DBLG 20 200 FS	200	20	20,900	**6015662**
DBLG 20 300 FS	300	20	37,300	**6015670**
DBLG 20 400 FS	400	20	46,700	**6015689**
DBLG 20 500 FS	500	25	56,900	**6015693**
DBLG 20 600 FS	600	25	66,400	**6015697**
DBLG 20 050 FT	50	20	10,700	**6015648**
DBLG 20 100 FT	100	20	14,300	**6015656**
DBLG 20 150 FT	150	20	18,100	**6015660**
DBLG 20 200 FT	200	20	21,700	**6015664**
DBLG 20 300 FT	300	20	38,800	**6015672**
DBLG 20 400 FT	400	20	48,600	**6015691**
DBLG 20 500 FT	500	25	59,200	**6015695**
DBLG 20 600 FT	600	25	69,100	**6015699**





St Steel /pc.

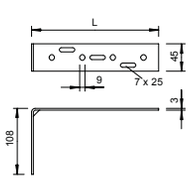
FS Strip-galvanised FT Hot-dip galvanised

Screwless fastening of the mesh cable tray on the stand-off bracket.

Stand-off bracket for stand-off of mesh cable trays on the floor or on the wall.

Wall bracket

Type	Dim. L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WW 100 15 FS	158	25	25,000	**6015360**
WW 100 20 FS	208	25	30,000	**6015379**





St Steel /pc.

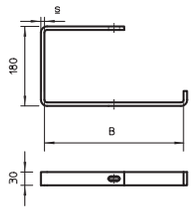
FS Strip-galvanised

Wall bracket for fastening to masonry and concrete to accept low loads.

Always indicate the item number when ordering.

Ceiling bracket





Type	Width mm	Dimension s mm	Hole-Ø mm	F in kN ceiling kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AHB 100 FT	100	6	11	0.6	1	54,000	**6363903**
AHB 150 FT	150	8	11	0.6	1	87,000	**6363907**
AHB 200 FT	200	8	11	0.6	1	101,000	**6363911**
AHB 300 FT	300	8	11	0.35	1	130,000	**6363938**
AHB 400 FT	400	8	11	0.2	1	157,000	**6363946**

St Steel /pc.

FT Hot-dip galvanised

Ceiling bracket for cable support systems.

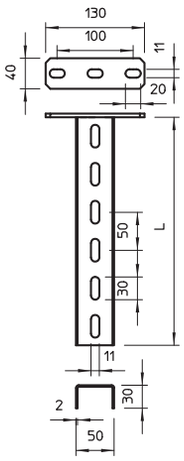
Always indicate the item number when ordering.

US 3 support

Type	Length mm	Material thickness mm	Tensile load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
US 3 K 20 FT	200	2	5	1	50,500	**6342351**
US 3 K 30 FT	300	2	5	1	64,400	**6342353**
US 3 K 40 FT	400	2	5	1	78,300	**6342355**
US 3 K 50 FT	500	2	5	1	92,300	**6342357**
US 3 K 60 FT	600	2	5	1	106,200	**6342359**
US 3 K 70 FT	700	2	5	1	120,200	**6342362**
US 3 K 80 FT	800	2	5	1	134,100	**6342364**
US 3 K 90 FT	900	2	5	1	147,800	**6342366**
US 3 K 100 FT	1000	2	5	1	162,000	**6342368**
US 3 K 110 FT	1100	2	5	1	175,900	**6342370**
US 3 K 120 FT	1200	2	5	1	189,900	**6342372**

St Steel /pc.

FT Hot-dip galvanised





For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

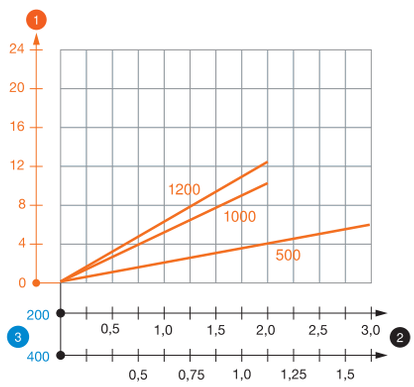
Suspended support (U profile) of dimensions 50 x 30 mm with welded head plate.

Load diagram, U support, type US 3 K

Load

1. Bending of the end of the suspended support at permitted bracket load
2. Approved bracket load in kN without man load
3. Bracket length in mm

— Load curves with support lengths in mm



Characteristic anchor load values for US 3 K suspended support

Single-sided load

Anchor type	Max. load F [kN] Bracket width [mm] 110	210	310	410
BZ-U 8-10/75	2,00	1,50	1,15	0,90
BZ-U 10-10/90	3,50	2,70	2,00	1,75

Double-sided load

Anchor type	Max. load F [kN] Bracket width [mm] 110	210	310	410
BZ-U 8-10/75	3,75	3,25	2,80	2,50
BZ-U 10-10/90	5,50	5,80	5,00	4,50

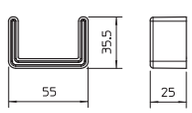
Max. total load F = cable weight + cable tray + bracket + support. The tabular values for double-sided loads take the available axis spacing ai = 10 cm into account. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

End cap

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
US 3 KS OR	Pastel orange	20	1,070	**6338458**

PE Polyethylene /pc.

End cap to cover the ends of US 3 supports.



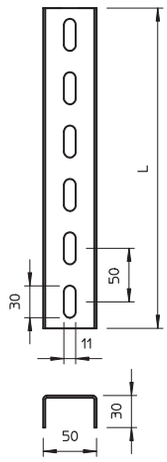


Always indicate the item number when ordering.

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US 3 support





Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 3 20 FS	200	2	1	27,000	**6342302**
US 3 30 FS	300	2	1	40,000	**6342304**
US 3 40 FS	400	2	1	53,000	**6342306**
US 3 50 FS	500	2	1	67,000	**6342308**
US 3 60 FS	600	2	1	80,000	**6342310**
US 3 70 FS	700	2	1	93,000	**6342312**
US 3 80 FS	800	2	1	107,000	**6342314**
US 3 90 FS	900	2	1	120,000	**6342316**
US 3 100 FS	1000	2	1	133,000	**6342318**
US 3 150 FS	1500	2	1	200,000	**6342328**
US 3 200 FS	2000	2	1	266,000	**6342338**
US 3 300 FS	3000	2	1	399,000	**6342340**
US 3 600 FS	6000	2	1	798,000	**6342345**
US 3 600 FT	6000	2	1	834,000	**6342450**

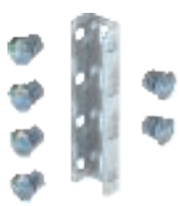
St Steel /pc.

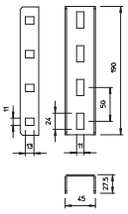
FS Strip-galvanised FT Hot-dip galvanised

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

U support in fixed lengths. Dimensions 30 x 50 mm.

U support connector





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VUS 3 FT	10	48,000	**6018513**

St Steel /pc.

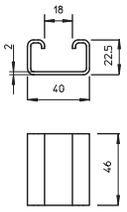
FT Hot-dip galvanised

Including appropriate fastening material.

U support connector to connect US 3 supports.

Spacer





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DSK 25 FT	20	7,500	**6416446**

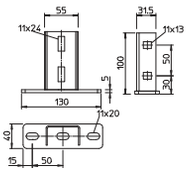
St Steel /pc.

FT Hot-dip galvanised

Spacer for use in U 3 supports.

Head plate





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KU 3 FT	10	46,800	**6348874**

St Steel /pc.

FT Hot-dip galvanised

The head plate can be mounted to fixed lengths of the U support, type US 3.
Including appropriate fastening material.

Head plate for mounting on US 3 supports.

Always indicate the item number when ordering.

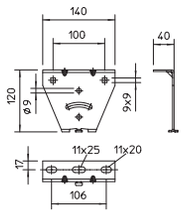
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Head plate, variable

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KU 3 V FS	20	40,000	**6348881**
KU 3 V FT	20	41,300	**6348883**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised





The variable head plate can be mounted to fixed lengths of the U support, type US 3, or profile rails, type 2068. The maximum angle adjustment is 20° on one side.

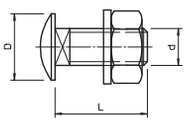
Variable head plate for installation on US 3 supports and profile rails, type 2068.

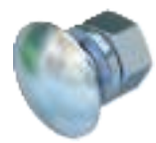
Truss-head bolt

Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRS 10X25 F 8.8	M10 x 25	25	10	24	50	4,500	**6407560**

St Steel /100 pc.

F Hot-dip galvanised





The truss-head bolt can be used in combination with hot-dip and double-dip galvanised articles.

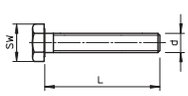
Truss-head bolt with square neck. With washer and hexagonal nut.

Hexagonal bolt

Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 10X80 F	M10 x 80	80	10	17	20	7,700	**6418250**
SKS 10X90 F	M10 x 90	90	10	17	20	7,800	**6418252**

St Steel /100 pc.

F Hot-dip galvanised



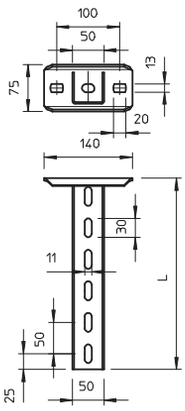


Hexagonal bolt for universal fixing of structure components.

Always indicate the item number when ordering.

US 5 support





Type	Length mm	Material thickness mm	Tensile load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 K 20 FT	200	2.5	10	1	85,000	**6341527**
US 5 K 30 FT	300	2.5	10	1	110,000	**6341535**
US 5 K 40 FT	400	2.5	10	1	136,000	**6341543**
US 5 K 50 FT	500	2.5	10	1	161,000	**6341551**
US 5 K 60 FT	600	2.5	10	1	185,000	**6341578**
US 5 K 70 FT	700	2.5	10	1	210,000	**6341586**
US 5 K 80 FT	800	2.5	10	1	236,000	**6341594**
US 5 K 90 FT	900	2.5	10	1	261,000	**6341608**
US 5 K 100 FT	1000	2.5	10	1	286,000	**6341616**
US 5 K 110 FT	1100	2.5	10	1	311,000	**6341624**
US 5 K 120 FT	1200	2.5	10	1	337,000	**6341632**

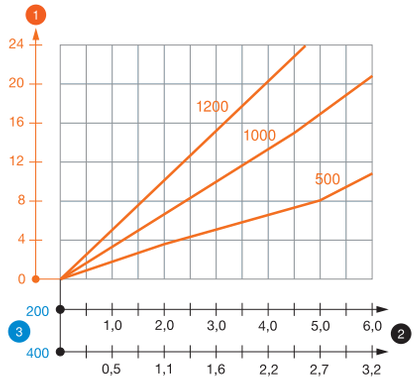
St Steel /pc.

FT Hot-dip galvanised

For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.

U support of dimensions 50 x 50 mm with welded head plate.

Load



Load diagram, U support, type US 5 K

1 Bending of the end of the suspended support at permitted bracket load

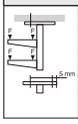
2 Approved bracket load in kN without man load

3 Bracket length in mm

— Load curves with support lengths in mm

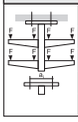
Characteristic anchor load values for US 5 K support

Single-sided load



Anchor type	Max. load F [kN] Bracket width [mm] 110	210	310	410
BZ-U 10-10/90	3,75	2,75	2,20	1,80
BZ 70 M12-15/110	5,75	4,75	3,85	3,25

Double-sided load

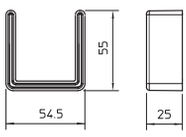


Anchor type	Max. load F [kN] Bracket width [mm] 110	210	310	410	510	610
BZ-U 10-10/90	5,50	5,80	5,00	4,50	3,80	1,75
BZ 70 M12-15/110	10,00	10,00	9,00	8,00	6,75	5,50

Max. total load F = cable weight + cable tray + bracket + support. The tabular values for double-sided loads take the available axis spacing ai = 10 cm into account. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

End cap





Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 KS OR	Pastel orange	20	1,300	**6338462**

PE Polyethylene /pc.

End cap to cover the ends of US 5 supports.

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US 5 support

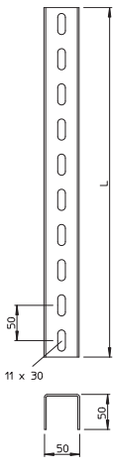
Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 20 FT	200	2.5	1	51,000	**6340881**
US 5 30 FT	300	2.5	1	79,000	**6340903**
US 5 40 FT	400	2.5	1	106,000	**6340911**
US 5 50 FT	500	2.5	1	133,000	**6340938**
US 5 60 FT	600	2.5	1	160,000	**6340946**
US 5 70 FT	700	2.5	1	175,000	**6340950**
US 5 80 FT	800	2.5	1	200,000	**6340954**
US 5 90 FT	900	2.5	1	227,000	**6340958**
US 5 100 FT	1000	2.5	1	265,000	**6340962**
US 5 110 FT	1100	2.5	1	278,000	**6340964**
US 5 150 FT	1500	2.5	1	395,000	**6340966**
US 5 200 FT	2000	2.5	1	506,000	**6340970**
US 5 300 FT	3000	2.5	1	795,000	**6340989**
US 5 600 FT	6000	2.5	1	1.578,000	**6340997**

St Steel /pc.

FT Hot-dip galvanised

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.

U support in fixed lengths. Dimensions 50 x 50 mm.





U support connector

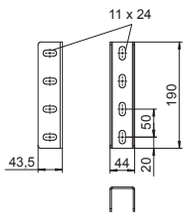
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VUS 5 FT	10	44,000	**6018505**

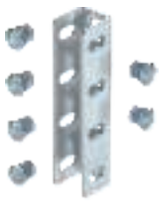
St Steel /pc.

FT Hot-dip galvanised

Including appropriate fastening material.

U support connector to connect US 5 supports.





Spacer

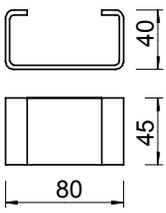
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DSK 45 FT	20	19,000	**6416500**

St Steel /pc.

FT Hot-dip galvanised

For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the hexagonal bolts.

Spacer for use in U 5 support and in the head plate, type KU 7 VQP.





Head plate US 5

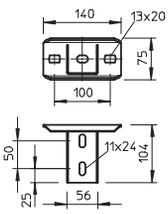
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KUS 5 FT	10	75,000	**6348904**

St Steel /pc.

FT Hot-dip galvanised

When installing the head plate, please use the spacer, type DSK 45.

Head plate for installation in US 5 support.





Head plate US 5 NOK

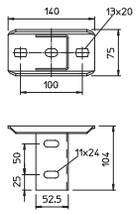
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KUS 5 NOK FT	10	75,000	**6348939**

St Steel /pc.

FT Hot-dip galvanised

When installing the head plate, please use the spacer, type DSK 45.

Head plate with U support mounting rotated 90°.

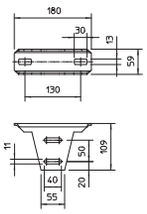




Always indicate the item number when ordering.

Head plate, variable





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KU 5 V FT	4	82,000	**6348920**

St Steel /pc.

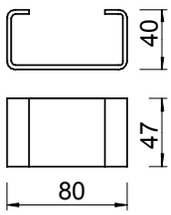
FT Hot-dip galvanised

The spacer, type DSK 47, is used for stabilisation when mounting the head plate. The maximum angle adjustment is approx. 30° on one side.

Variable head plate for installation on US 5 support.

Spacer





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DSK 47 FT	20	16,000	**6416504**

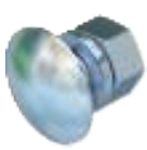
St Steel /pc.

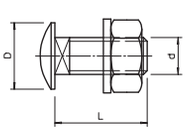
FT Hot-dip galvanised

For static reasons, the spacer is always used to increase stability to prevent the head plate from deforming when the bolts are tightened.

Spacer for use in head plate, type KU 5 V.

Truss-head bolt





Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRS 10X25 F 8.8	M10 x 25	25	10	24	50	4,500	**6407560**

St Steel /100 pc.

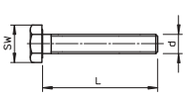
F Hot-dip galvanised

The truss-head bolt can be used in combination with hot-dip and double-dip galvanised articles.

Truss-head bolt with square neck. With washer and hexagonal nut.

Hexagonal bolt





Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 10X80 F	M10 x 80	80	10	17	20	7,700	**6418250**
SKS 10X90 F	M10 x 90	90	10	17	20	7,800	**6418252**
SKS 10X120 F	M 10 x 120	120	10	17	20	13,500	**3160793**

St Steel /100 pc.

F Hot-dip galvanised

Hexagonal bolt for universal fixing of structure components.

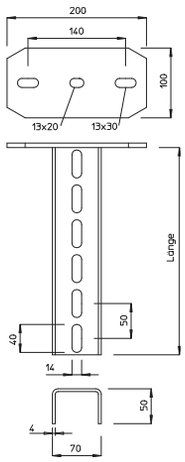
Always indicate the item number when ordering.

US 7 support

Type	Length mm	Material thickness mm	Tensile load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
US 7 K 20 FT	200	4	11	1	176,000	**6339018**
US 7 K 30 FT	300	4	11	1	216,000	**6339034**
US 7 K 40 FT	400	4	11	1	257,000	**6339050**
US 7 K 50 FT	500	4	11	1	297,000	**6339077**
US 7 K 60 FT	600	4	11	1	337,000	**6339093**
US 7 K 70 FT	700	4	11	1	378,000	**6339115**
US 7 K 80 FT	800	4	11	1	418,000	**6339131**
US 7 K 90 FT	900	4	11	1	458,000	**6339166**
US 7 K 100 FT	1000	4	11	1	499,000	**6339182**
US 7 K 110 FT	1100	4	11	1	539,000	**6339190**
US 7 K 120 FT	1200	4	11	1	579,000	**6339204**
US 7 K 130 FT	1300	4	11	1	620,000	**6339212**
US 7 K 140 FT	1400	4	11	1	660,000	**6339220**
US 7 K 150 FT	1500	4	11	1	701,000	**6339239**
US 7 K 160 FT	1600	4	11	1	741,000	**6339247**
US 7 K 170 FT	1700	4	11	1	781,000	**6339255**
US 7 K 180 FT	1800	4	11	1	822,000	**6339263**
US 7 K 190 FT	1900	4	11	1	862,000	**6339271**
US 7 K 200 FT	2000	4	11	1	902,000	**6339298**

St Steel /pc.

FT Hot-dip galvanised





For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

Suspended support (U profile) of dimensions 70 x 50 mm with welded head plate.

Load diagram, U support, type US 7 K

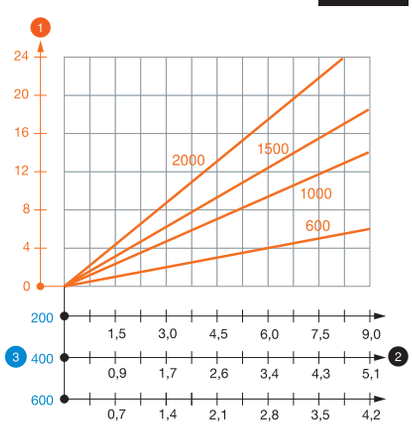
Load

1 Bending of the end of the suspended support at permitted bracket load

2 Approved bracket load in kN without man load

3 Bracket length in mm

Load curves with support lengths in mm



Characteristic anchor load values for U support, type US 7 K

Single-sided load							
		Max. load F [kN]					
		Bracket width [mm]					
	Anchor type	110	210	310	410	510	610
	BZ-U 10-10/90	4,25	3,25	2,50	2,25	2,00	1,75
	BZ 70 M12-15/110	7,25	5,50	4,50	4,00	3,50	3,00

Double-sided load							
		Max. load F [kN]					
		Bracket width [mm]					
	Anchor type	110	210	310	410	510	610
	BZ-U 10-10/90	7,25	6,25	5,75	5,25	4,80	4,50
	BZ 70 M12-15/110	11,00	11,00	10,00	9,00	8,50	8,00

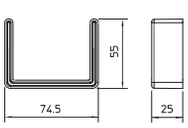
Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing ai = 14 cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

End cap

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
US 7 KS OR	Pastel orange	20	1,800	**6338497**

PE Polyethylene /pc.

End cap to cover the ends of US 7 supports.

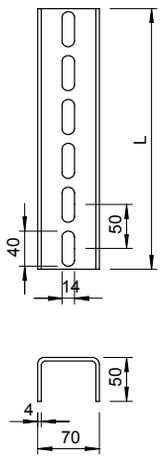




Always indicate the item number when ordering.

US 7 support





Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 7 20 FT	200	4	1	81,000	**6340016**
US 7 30 FT	300	4	1	121,000	**6340032**
US 7 40 FT	400	4	1	161,000	**6340059**
US 7 50 FT	500	4	1	202,000	**6340075**
US 7 60 FT	600	4	1	242,000	**6340091**
US 7 70 FT	700	4	1	283,000	**6340113**
US 7 80 FT	800	4	1	323,000	**6340148**
US 7 90 FT	900	4	1	363,000	**6340164**
US 7 100 FT	1000	4	1	404,000	**6340180**
US 7 110 FT	1100	4	1	444,000	**6340199**
US 7 120 FT	1200	4	1	484,000	**6340202**
US 7 130 FT	1300	4	1	525,000	**6340210**
US 7 140 FT	1400	4	1	565,000	**6340229**
US 7 150 FT	1500	4	1	606,000	**6340237**
US 7 160 FT	1600	4	1	646,000	**6340245**
US 7 170 FT	1700	4	1	686,000	**6340253**
US 7 180 FT	1800	4	1	727,000	**6340261**
US 7 190 FT	1900	4	1	767,000	**6340288**
US 7 200 FT	2000	4	1	807,000	**6340296**
US 7 300 FT	3000	4	1	1.211,000	**6340377**
US 7 400 FT	4000	4	1	1.615,000	**6340393**
US 7 600 FT	6000	4	1	2.422,000	**6340318**

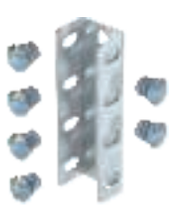
St Steel /pc.

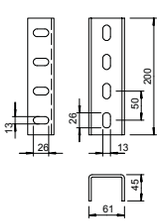
FT Hot-dip galvanised

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

U support in fixed lengths. Dimensions 70 x 50 mm.

U support connector





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VUS 7 FT	10	114,000	**6018378**

St Steel /pc.

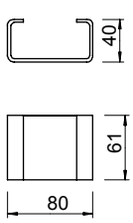
FT Hot-dip galvanised

Including appropriate fastening material.

U support connector to connect US 7 supports.

Spacer





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DSK 61 FT	20	26,000	**6416519**

St Steel /pc.

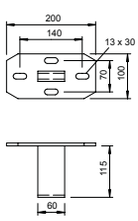
FT Hot-dip galvanised

For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the hexagonal bolts.

Spacer for use in U 7 supports.

Head plate, light-duty





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KU 7 FT	10	148,000	**6349102**

St Steel /pc.

FT Hot-dip galvanised

Please order fastening material (two hexagonal bolts SKS 12 x 80) separately.

Light-duty head plate for mounting on US 7 support.

Always indicate the item number when ordering.

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Head plate, heavy-duty

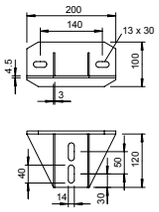
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KU 7 NOX FT	1	184,000	**6349056**

St Steel /pc.

FT Hot-dip galvanised

Please order fastening material (two truss-head bolts FRS 12 x 25) separately.

Heavy-duty head plate for installation in US 7 support.





Head plate for welding

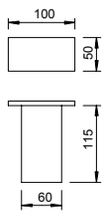
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KU 7 AOX FT	1	82,000	**6349218**

St Steel /pc.

FT Hot-dip galvanised

Please order fastening material (two hexagonal bolts SKS 12 x 80) separately.

Head plate for US 7 support for welding on steel girder.





Head plate, variable

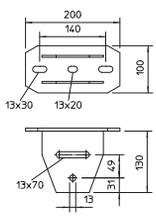
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KU 7 VQP FT	10	180,000	**6349153**

St Steel /pc.

FT Hot-dip galvanised

Please order fastening material (two hexagonal bolts SKS 12 x 80 and spacer DSK 45) separately. The maximum angle adjustment is 30° on one side.

Variable head plate for installation on US 7 support.





Spacer

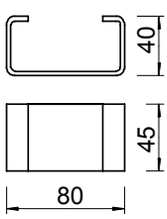
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DSK 45 FT	20	19,000	**6416500**

St Steel /pc.

FT Hot-dip galvanised

For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the hexagonal bolts.

Spacer for use in U 5 support and in the head plate, type KU 7 VQP.





Adapter head plate, symmetrical

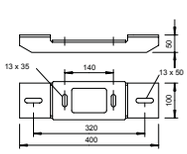
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KA-SY FT	1	277,000	**6346804**

St Steel /pc.

FT Hot-dip galvanised

The adapter head plate increases the load capacity of the IS 8 K and US 7 K supports, taking the characteristic anchor values into account.

Adapter head plate, symmetrical, to increase the load capacity of supports, type US 7 K and IS 8 K.

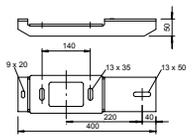




Always indicate the item number when ordering.

Adapter head plate, asymmetrical





Type	Pack. pcs	Weight kg/100 pcs.	Item No.	
KA-ASY FT	1	280,000	**6346820**	/pc.

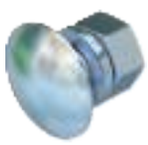
St Steel

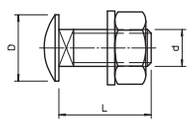
FT Hot-dip galvanised

The adapter head plate increases the load capacity of the IS 8 K and US 7 K supports, taking the characteristic anchor values into account.

Adapter head plate, asymmetrical, to increase the load capacity of supports, type US 7 K and IS 8 K.

Truss-head bolt





Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Pack. pcs	Weight kg/100 pcs.	Item No.	
FRS 12X25 F	M12 x 25	25	12	30	10	6,400	**6406254**	/100 pc.

St Steel

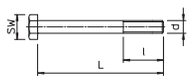
F Hot-dip galvanised

The truss-head bolt can be used in combination with hot-dip and double-dip galvanised articles.

Truss-head bolt with square neck. With washer and hexagonal nut.

Hexagonal bolt





Type	Dimension mm	Dim. L mm	Dim. l mm	Dim. d mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.	
SKS 12X80 F	M12 x 80	80	30	12	19	20	11,800	**6418287**	
SKS 12X100 F	M12 x 100	100	30	12	19	20	12,600	**6418295**	
SKS 12X110 F	M12 x 110	110	30	12	19	20	14,500	**6418317**	
SKS 12X130 F	M12 x 130	130	36	12	19	20	15,500	**6408478**	/100 pc.

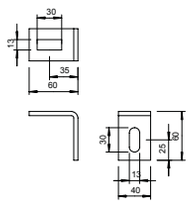
St Steel

F Hot-dip galvanised

Hexagonal bolt with hexagonal nut, washer and tooth lock washer.

Mounting angle BW 60





Type	Pack. pcs	Weight kg/100 pcs.	Item No.	
BW 60 40 FT	10	22,000	**6019560**	/pc.

St Steel

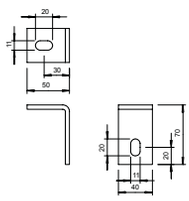
FT Hot-dip galvanised

Including truss-head bolt M12 x 25.

Mounting angle of limb dimension 60 x 60 mm.

Mounting angle BW 70





Type	Pack. pcs	Weight kg/100 pcs.	Item No.	
BW 70 40 FT	10	22,000	**6019706**	/pc.

St Steel

FT Hot-dip galvanised

Including truss-head bolt M10 x 25.

Mounting angle of limb dimension 70 x 50 mm.

Always indicate the item number when ordering.

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Mounting angle

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
BW 80 55 FT	10	26,400	**6019528**

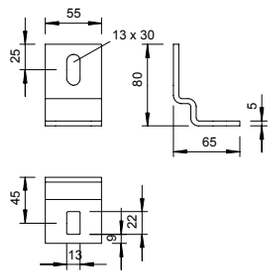
St Steel /pc.

FT Hot-dip galvanised

The mounting angle can also be used in conjunction with the heavy-duty vertical ladder, type SLS 80. Including fastening bolt M12 x 30.

Mounting angle for mounting IS 8 supports on the wall.





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Always indicate the item number when ordering.

Wall and support bracket MWA 12



Type	Width mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
MWA 12 11S FS	110	1.2	30	17,200	**6424716**
MWA 12 21S FS	210	1.2	30	29,000	**6424732**
MWA 12 31S FS	310	1.2	30	50,300	**6424740**
MWA 12 41S FS	410	1.2	30	68,000	**6424759**

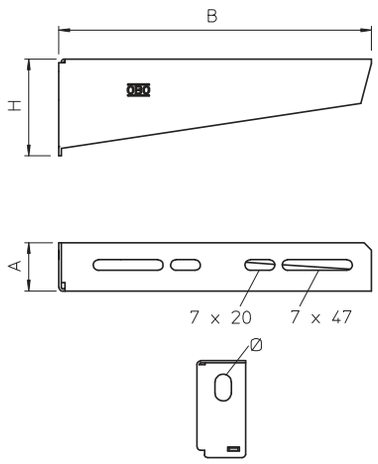
St Steel /pc.

FS Strip-galvanised

Including truss-head bolt M10 x 25 for fastening to U supports.

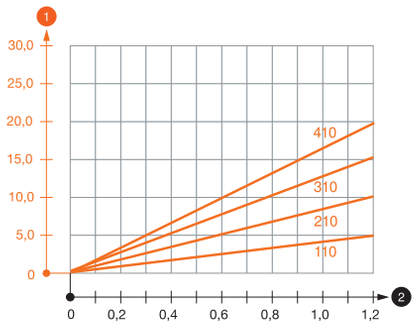
Light-duty wall and support bracket.

Dimensions



Type	Dimension B mm	Dimension A mm	Dimension H mm	Hole-Ø mm
MWA 12 11S FS	110	32.5	53	11
MWA 12 21S FS	210	32.5	65	11
MWA 12 31S FS	310	38	75	11
MWA 12 41S FS	410	38	83	11

Load



Load diagram, bracket, type MWA 12

1 Bending of the bracket tip at permitted bracket load

2 Approved bracket load in kN without man load

— Load curve with bracket lengths in mm

Characteristic anchor load values for wall and support bracket MWA 12

Wall fastening				
F F	Max. load F [kN]			
	Bracket width [mm]			
Anchor type	110	210	310	410
BZ-U 8-10/75	1,20	0,95	0,70	0,65
BZ-U 10-10/90	1,20	1,20	1,20	1,20

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Load values for MWA 12 on suspended support

Max. total load F in kN					
	Bracket length in mm				
Support	100	200	300	400	
US 3 K/ 20 - 60	1,20	1,20	1,20	1,20	
US 3 K/ 70 - 120	1,20	1,20	1,20	1,20	
US 5 K/ 20 - 60	1,20	1,20	1,20	1,20	
US 5 K/ 70 - 120	1,20	1,20	1,20	1,20	

Always indicate the item number when ordering.

Wall and support bracket MWAM 12

Type	Width mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
MWAM 12 11 FS	110	1.2	30	19,500	**6424550**
MWAM 12 21 FS	210	1.2	30	26,000	**6424552**
MWAM 12 31 FS	310	1.2	30	51,900	**6424554**
MWAM 12 41 FS	410	1.2	25	69,700	**6424556**

St Steel /pc.

FS Strip-galvanised

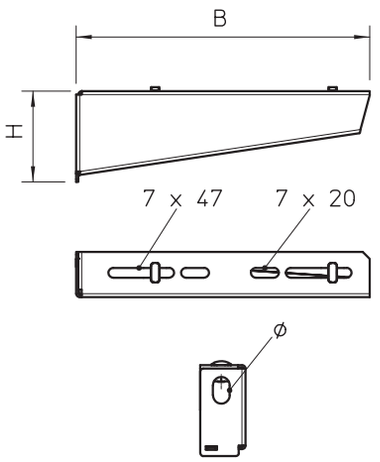
Wall and support bracket MWAM.. including:
1. Two pre-mounted quick connectors for efficient cable tray fastening.
2. Truss-head bolt M10 x 25 for fastening on the U support.

Light-duty wall and support bracket including quick connector for use with cable trays of type RKSM.



Dimensions

Type	Dimension B mm	Dimension A mm	Dimension H mm	Hole-Ø mm
MWAM 12 11 FS	110	32.5	53	11
MWAM 12 21 FS	210	32.5	65	11
MWAM 12 31 FS	310	38	75	11
MWAM 12 41 FS	410	38	83	11



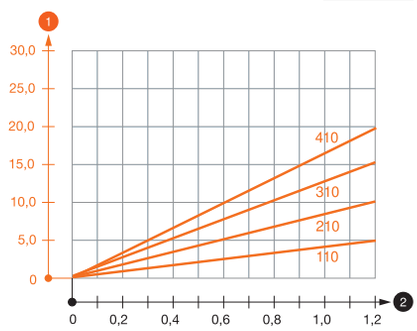
Load diagram, bracket type MWAM 12

Load

1 Bending of the bracket tip at permitted bracket load

2 Approved bracket load in kN without man load

Load curve with bracket lengths in mm



Characteristic anchor load values for wall and support bracket MWAM 12

Wall fastening					
F F		Max. load F [kN]			
		Bracket width [mm]			
	Anchor type	110	210	310	410
	BZ-U 8-10/75	1,20	0,95	0,70	0,65
	BZ-U 10-10/90	1,20	1,20	1,20	1,20

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Load values for MWAM 12 on support

Max. total load F in kN					
		Bracket length in mm			
	Support	100	200	300	400
	US 3 K/ 20 - 60	1,20	1,20	1,20	1,20
	US 3 K/ 70 - 120	1,20	1,20	1,20	1,20
	US 5 K/ 20 - 60	1,20	1,20	1,20	1,20
	US 5 K/ 70 - 120	1,20	1,20	1,20	1,20

Quick connector

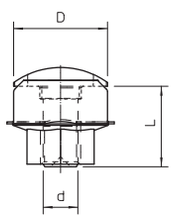
Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FCM F	M 6 x 12	12	6	13.5	50	0,720	**6424548**

St Steel /100 pc.

F Hot-dip galvanised

The quick fastening can then be mounted in all brackets with 7 x ... perforation at a later date.

Quick connector for efficient fastening of cable tray on brackets.





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Always indicate the item number when ordering.

Wall and support bracket MWAG 12



Type	Width mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
MWAG 12 11 FS	110	1.2	30	12,700	**6424600**
MWAG 12 21 FS	210	1.2	30	24,400	**6424608**
MWAG 12 31 FS	310	1.2	30	50,300	**6424616**
MWAG 12 41 FS	410	1.2	25	68,100	**6424624**

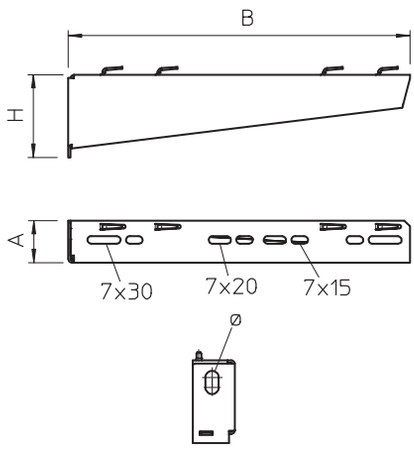
St Steel /pc.

FS Strip-galvanised

Including truss-head bolt M10 x 25 for fastening to U supports.

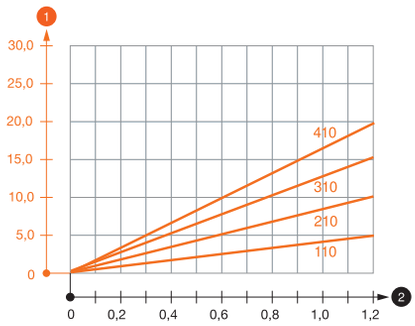
Light-duty wall and support bracket for screwless mesh cable tray fastening.

Dimensions



Type	Dimension B mm	Dimension A mm	Dimension H mm	Hole-Ø mm
MWAG 12 11 FS	110	32.5	53	11
MWAG 12 21 FS	210	32.5	65	11
MWAG 12 31 FS	310	38	75	11
MWAG 12 41 FS	410	38	83	11

Load



Load diagram, bracket type MWAG 12

1 Bending of the bracket tip at permitted bracket load

2 Approved bracket load in kN without man load

— Load curve with bracket lengths in mm

Characteristic anchor load values for wall and support bracket MWAG 12

Wall fastening				
F F	Max. load F [kN]			
	Bracket width [mm]			
Anchor type	110	210	310	410
BZ-U 8-10/75	1,20	0,95	0,70	0,65
BZ-U 10-10/90	1,20	1,20	1,20	1,20

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Load values for MWAG 12 on suspended support

Max. total load F in kN					
	Bracket length in mm				
Support	100	200	300	400	
US 3 K/ 20 - 60	1,20	1,20	1,20	1,20	
US 3 K/ 70 - 120	1,20	1,20	1,20	1,20	
US 5 K/ 20 - 60	1,20	1,20	1,20	1,20	
US 5 K/ 70 - 120	1,20	1,20	1,20	1,20	

Always indicate the item number when ordering.

Wall and support bracket AW 15

Type	Width mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AW 15 11 FT	110	1.5	30	14,000	**6420656**
AW 15 16 FT	160	1.5	30	21,000	**6420664**
AW 15 21 FT	210	1.5	30	26,000	**6420680**
AW 15 31 FT	310	1.5	30	32,500	**6420710**
AW 15 41 FT	410	1.5	30	55,000	**6420745**
AW 15 51 FT	510	1.5	20	72,000	**6420788**
AW 15 56 FT	560	1.5	20	77,000	**6420796**
AW 15 61 FT	610	1.5	20	85,000	**6420826**

St Steel /pc.

FT Hot-dip galvanised

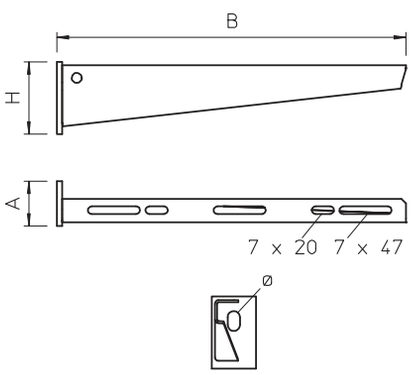


Fastening of the bracket to the U support of width 400 mm or greater using hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate.

Dimensions

Type	Dimension B mm	Dimension A mm	Dimension H mm	Hole-Ø mm
AW 15 11 FT	110	40	50	11
AW 15 16 FT	160	40	55	11
AW 15 21 FT	210	40	60	11
AW 15 31 FT	310	40	65	11
AW 15 41 FT	410	40	70	11
AW 15 51 FT	510	40	75	11
AW 15 56 FT	560	40	80	11
AW 15 61 FT	610	40	80	11



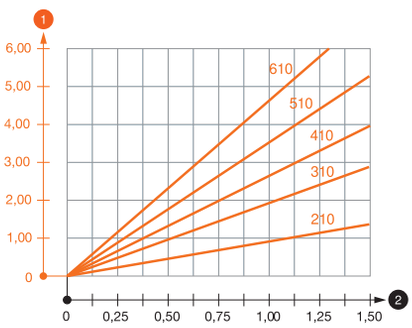
Load

Load diagram, bracket, type AW 15

1 Bending of the bracket tip at permitted bracket load

2 Approved bracket load in kN without man load

Load curve with bracket lengths in mm



Characteristic anchor load values for wall bracket AW 15

Wall fastening									
F F		Max. load F [kN]							
		Bracket width [mm]							
	Anchor type	110	160	210	310	410	510	560	610
	BZ-U 8-10/75	1,10	0,90	0,80	0,65	0,55	0,50	0,45	0,45
	BZ-U 10-10/90	1,50	1,50	1,40	1,10	0,95	0,85	0,80	0,80

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Load values for AW 15 on suspended support

Max. total load F in kN					
		Bracket length in mm			
	Support	100	200	300	400
	US 3 K/ 20 - 60	1,50	1,50	1,30	1,30
	US 3 K/ 70 - 120	1,50	1,50	1,30	1,30
	US 5 K/ 20 - 60	1,50	1,50	1,50	1,50
	US 5 K/ 70 - 120	1,50	1,50	1,40	1,50

Always indicate the item number when ordering.

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Wall and support bracket AW 15



Type	Width mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AW 15 11 FT 2L	110	1.5	30	16,000	**6420909**
AW 15 16 FT 2L	160	1.5	30	20,000	**6420912**
AW 15 21 FT 2L	210	1.5	30	29,000	**6420915**
AW 15 31 FT 2L	310	1.5	30	42,000	**6420918**
AW 15 41 FT 2L	410	1.5	30	58,000	**6420921**
AW 15 51 FT 2L	510	1.5	20	72,000	**6420924**
AW 15 61 FT 2L	610	1.5	18	91,000	**6420927**

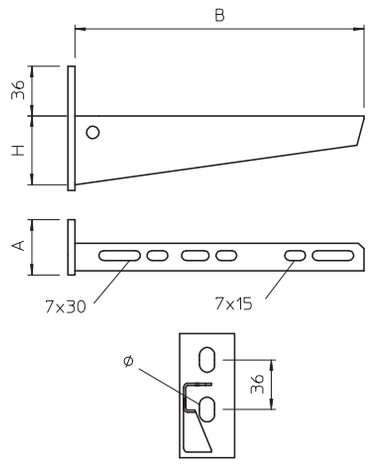
St Steel /pc.

FT Hot-dip galvanised

The double-perforated bracket offers the special option of double anchoring on lightweight partitions and light masonry.

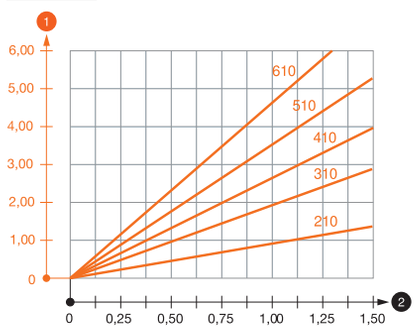
Wall and support bracket with welded head plate and two fastening holes.

Dimensions



Type	Dimension B mm	Dimension A mm	Dimension H mm	Hole-Ø mm
AW 15 11 FT 2L	110	40	44	11
AW 15 16 FT 2L	160	40	54	11
AW 15 21 FT 2L	210	40	54	11
AW 15 31 FT 2L	310	40	64	11
AW 15 41 FT 2L	410	40	64	11
AW 15 51 FT 2L	510	40	72	11
AW 15 61 FT 2L	610	40	77	11

Load



Load diagram, bracket, type AW 15

1 Bending of the bracket tip at permitted bracket load

2 Approved bracket load in kN without man load

— Load curve with bracket lengths in mm

Characteristic anchor load values for wall bracket AW 15

Wall fastening								
F F	Max. load F [kN]							
	Bracket width [mm]							
Anchor type	110	160	210	310	410	510	560	610
BZ-U 8-10/75	1,10	0,90	0,80	0,65	0,55	0,50	0,45	0,45
BZ-U 10-10/90	1,50	1,50	1,40	1,10	0,95	0,85	0,80	0,80

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Always indicate the item number when ordering.

Wall and support bracket AWG 15

Type	Width mm	F in kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AW G 15 11 FT	110	1.5	30	14,000	**6420606**
AW G 15 16 FT	160	1.5	30	20,000	**6420607**
AW G 15 21 FT	210	1.5	30	26,000	**6420608**
AW G 15 31 FT	310	1.5	30	35,000	**6420610**
AW G 15 41 FT	410	1.5	30	56,000	**6420612**
AW G 15 51 FT	510	1.5	20	69,000	**6420614**
AW G 15 61 FT	610	1.5	20	84,000	**6420616**

St Steel /pc.

FT Hot-dip galvanised

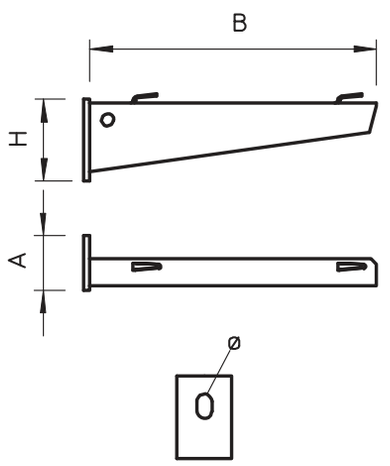


Fastening of the bracket to the U support of width 400 mm or greater using hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate for screwless mesh cable tray fastening.

Dimensions

Type	Dimension B mm	Dimension A mm	Dimension H mm	Hole-Ø mm
AW G 15 11 FT	110	40	50	11
AW G 15 16 FT	160	40	55	11
AW G 15 21 FT	210	40	60	11
AW G 15 31 FT	310	40	65	11
AW G 15 41 FT	410	40	70	11
AW G 15 51 FT	510	40	75	11
AW G 15 61 FT	610	40	80	11



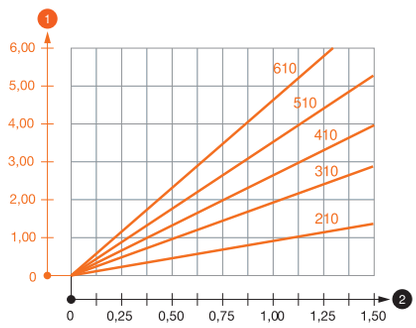
Load diagram, bracket type AW G 15

Load

1 Bending of the bracket tip at permitted bracket load

2 Approved bracket load in kN without man load

— Load curve with bracket lengths in mm



Characteristic anchor load values for wall and support bracket AW G 15

Wall fastening									
F F		Max. load F [kN]							
		Bracket width [mm]							
	Anchor type	110	160	210	310	410	510	560	610
	BZ-U 8-10/75	1,10	0,90	0,80	0,65	0,55	0,50	0,45	0,45
	BZ-U 10-10/90	1,50	1,50	1,40	1,10	0,95	0,85	0,80	0,80

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Load values for AWG 15 on support

Max. total load F in kN					
		Bracket length in mm			
	Support	100	200	300	400
	US 3 K/ 20 - 60	1,50	1,50	1,30	1,30
	US 3 K/ 70 - 120	1,50	1,50	1,30	1,30
	US 5 K/ 20 - 60	1,50	1,50	1,50	1,50
	US 5 K/ 70 - 120	1,50	1,50	1,40	1,50

Always indicate the item number when ordering.

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Wall and support bracket AW 30



Type	Width mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AW 30 11 FT	110	3	1	22,000	**6419704**
AW 30 16 FT	160	3	1	34,000	**6419712**
AW 30 21 FT	210	3	1	42,000	**6419720**
AW 30 26 FT	260	3	1	53,000	**6419739**
AW 30 31 FT	310	3	1	63,000	**6419747**
AW 30 41 FT	410	3	1	89,000	**6419763**
AW 30 51 FT	510	3	1	132,500	**6419798**
AW 30 56 FT	560	3	1	185,000	**6419844**
AW 30 61 FT	610	3	1	158,000	**6419828**
AW 30 71 FT	710	3	1	214,000	**6419836**

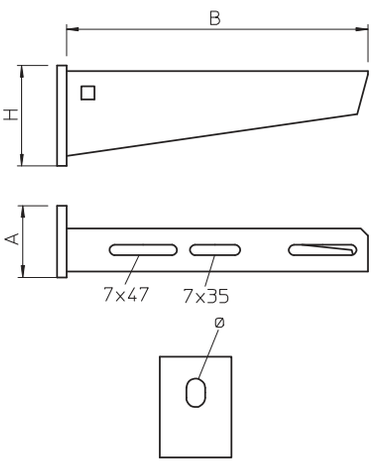
St Steel /pc.

FT Hot-dip galvanised

Fastening of the bracket to the U support of width 400 mm or greater using hexagonal bolt through both sides of the support. Please insert suitable spacers.

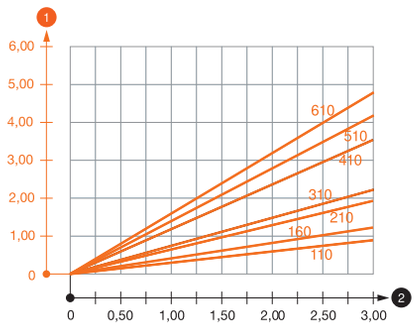
Medium-duty wall and support bracket with welded head plate.

Dimensions



Type	Dimension B mm	Dimension A mm	Dimension H mm	Hole-Ø mm
AW 30 11 FT	110	50	60	11
AW 30 16 FT	160	50	65	11
AW 30 21 FT	210	50	70	13
AW 30 26 FT	260	50	70	13
AW 30 31 FT	310	50	80	13
AW 30 41 FT	410	50	80	13
AW 30 51 FT	510	50	90	13
AW 30 56 FT	560	50	100	13
AW 30 61 FT	610	50	100	13
AW 30 71 FT	710	50	100	13

Load



Load diagram, bracket, type AW 30

1 Bending of the bracket tip at permitted bracket load

2 Approved bracket load in kN without man load

— Load curve with bracket lengths in mm

Characteristic anchor load values for wall and support bracket AW 30

Wall fastening								
F F		Max. load F [kN]						
		Bracket width [mm]						
	Anchor type	110	160	210	310	410	510	560
	BZ-U 10-10/90	2,50	2,10	1,65	1,40	1,10	1,00	1,00
	BZ 70 M12-15/110	3,00	2,65	2,90	2,50	1,90	1,80	1,75
		* Values with tray width 600						

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Load values for AW 30 on suspended support

Max. total load F in kN					
		Bracket length in mm			
	Support	100	200	300	400
	US 3 K/ 20 - 60	2,10	1,80	1,30	1,30
	US 3 K/ 70 - 120	1,80	1,50	1,30	1,30
	US 5 K/ 20 - 60	2,40	2,00	1,80	2,50
	US 5 K/ 70 - 120	2,40	2,00	1,40	2,50

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Wall and support bracket AW 55

Type	Width mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AW 55 21 FT	210	5.5	1	77,000	**6418554**
AW 55 31 FT	310	5.5	1	123,000	**6418570**
AW 55 41 FT	410	5.5	1	167,000	**6418597**
AW 55 51 FT	510	5.5	1	249,000	**6418619**
AW 55 56 FT	560	5.5	1	282,000	**6418627**
AW 55 61 FT	610	5.5	1	305,000	**6418635**
AW 55 71 FT	710	5.5	1	418,000	**6418651**
AW 55 81 FT	810	5.5	1	477,000	**6418686**
AW 55 91 FT	910	5.5	1	558,000	**6418708**
AW 55 101 FT	1010	5.5	1	640,000	**6418724**

St Steel /pc.

FT Hot-dip galvanised

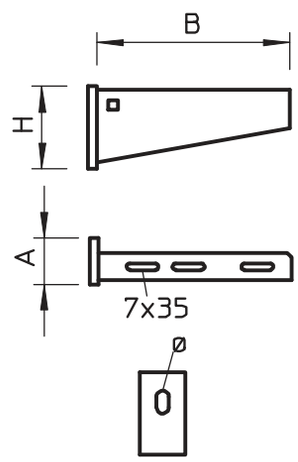


Fastening of the bracket to the U support of width 400 mm or greater using hexagonal bolt through both sides of the support. Please insert suitable spacers.

Heavy-duty wall and support bracket with welded head plate.

Dimensions

Type	Dimension B mm	Dimension A mm	Dimension H mm	Hole-Ø mm
AW 55 21 FT	210	50	90	13.5
AW 55 31 FT	310	50	110	13.5
AW 55 41 FT	410	50	130	13.5
AW 55 51 FT	510	60	145	13.5
AW 55 56 FT	560	60	165	13.5
AW 55 61 FT	610	60	165	13.5
AW 55 71 FT	710	60	195	13.5
AW 55 81 FT	810	60	195	13.5
AW 55 91 FT	910	60	215	13.5
AW 55 101 FT	1010	60	230	13.5



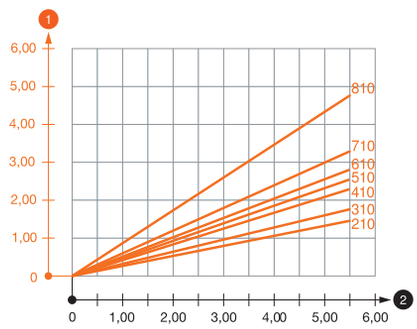
Load diagram, bracket, type AW 55

Load

1 Bending of the bracket tip at permitted bracket load

2 Approved bracket load in kN without man load

— Load curve with bracket lengths in mm



Characteristic anchor load values for wall and support bracket AW 55

Wall fastening								
F F		Max. load F [kN]						
		Bracket width [mm]						
	Anchor type	210	310	410	510	560	610	710*
	BZ-U 10-10/90	2,20	2,10	2,00	1,90	1,90	1,80	1,75
	BZ 70 M12-15/110	3,80	3,50	3,50	3,25	3,30	3,00	3,00
	SZ-B 18-20	4,10	4,06	4,02	3,83	3,83	3,56	2,88
		* Values with tray width 600						

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Always indicate the item number when ordering.

Wall bracket AW 80



Type	Width mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AW 80 21 FT	210	8	1	104,000	**6417752**
AW 80 31 FT	310	8	1	164,000	**6417779**
AW 80 41 FT	410	8	1	219,000	**6417795**
AW 80 51 FT	510	8	1	364,000	**6417817**
AW 80 61 FT	610	8	1	444,000	**6417833**
AW 80 71 FT	710	8	1	497,000	**6417868**
AW 80 81 FT	810	8	1	637,000	**6417884**

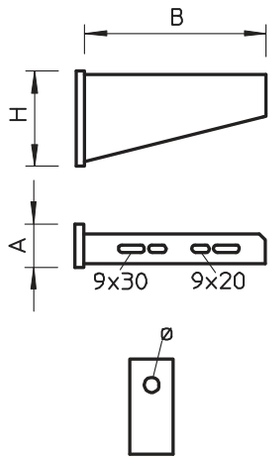
St Steel /pc.

FT Hot-dip galvanised

When fastening cable trays and ladders with truss-head bolts of size M6, please order large washers separately (perforation in bracket 9 x ...).

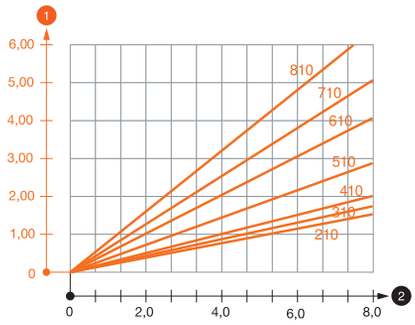
Heavy-duty wall bracket with welded head plate.

Dimensions



Type	Dimension B mm	Dimension A mm	Dimension H mm	Hole-Ø mm
AW 80 21 FT	210	50	110	17.5
AW 80 31 FT	310	50	145	17.5
AW 80 41 FT	410	50	165	17.5
AW 80 51 FT	510	60	195	17.5
AW 80 61 FT	610	60	210	17.5
AW 80 71 FT	710	60	235	17.5
AW 80 81 FT	810	60	260	17.5

Load



Load diagram, bracket type AW 80

1 Bending of the bracket tip at permitted bracket load

2 Approved bracket load in kN without man load

— Load curve with bracket lengths in mm

Characteristic anchor load values for wall bracket AW 80

Wall fastening							
F F	Max. load F [kN]						
	Bracket width [mm]						
Anchor type	210	310	410	510	610	710*	810*
BZ 70 M12-15/110	4,75	4,60	4,50	4,50	4,25	3,80	3,50
SZ-B 18-20	7,40	7,60	7,00	7,00	6,60	5,50	5,40
	* Values with tray width 600						

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Always indicate the item number when ordering.

Wall bracket, variable AWVL

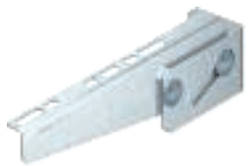
Type	Width mm	Dimension H mm	Dimension A mm	Hole-Ø mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AWVL 11 FS	170	60	64	13	0.75	5	51,200	**6419464**
AWVL 16 FS	220	60	64	13	0.65	5	55,200	**6419468**
AWVL 21 FS	270	60	64	13	0.55	5	59,100	**6419472**
AWVL 31 FS	370	60	64	13	0.4	5	67,200	**6419476**
AWVL 41 FS	470	60	64	13	0.25	5	75,300	**6419480**
AWVL 11 FT	170	60	64	13	0.75	5	51,900	**6419501**
AWVL 16 FT	220	60	64	13	0.65	5	56,200	**6419505**
AWVL 21 FT	270	60	64	13	0.55	5	60,300	**6419509**
AWVL 31 FT	370	60	64	13	0.4	5	68,900	**6419513**
AWVL 41 FT	470	60	64	13	0.25	5	77,500	**6419517**

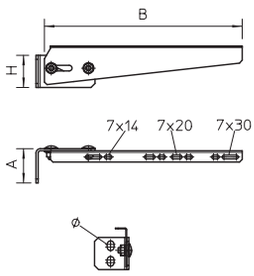
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Usable bracket length dependent on adjustment angle. The largest possible adjustment angle is 30°.

Variable wall bracket for fixing to sloping or vaulted walls.





Wall bracket, variable AWV

Type	Width mm	Dimension H mm	Dimension A mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AWV 21 FT	210	130	60	0.9	5	129,000	**6419534**
AWV 31 FT	310	130	60	0.9	5	149,000	**6419550**
AWV 41 FT	410	130	60	0.9	5	171,000	**6419577**
AWV 51 FT	510	130	60	0.9	5	209,000	**6419593**
AWV 61 FT	610	130	60	0.9	5	239,000	**6419615**

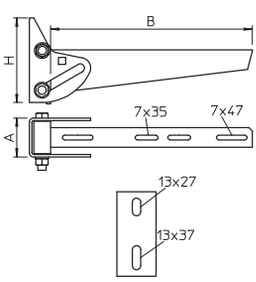
St Steel /pc.

FT Hot-dip galvanised

Usable bracket length dependent on adjustment angle. The largest possible adjustment angle is 30°.

Variable wall bracket for fixing to sloping or vaulted walls.





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Always indicate the item number when ordering.

Wall and clamping bracket AWSS



Type	Width mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AWSS 21 FT	210	10	1	323,000	**6417906**
AWSS 31 FT	310	10	1	553,000	**6417910**
AWSS 41 FT	410	10	1	598,000	**6417914**
AWSS 51 FT	510	10	1	693,000	**6417918**
AWSS 61 FT	610	10	1	763,000	**6417922**
AWSS 71 FT	710	8	1	840,000	**6417926**
AWSS 81 FT	810	7	1	923,000	**6417930**
AWSS 91 FT	910	6.5	1	1.020,000	**6417934**
AWSS 101 FT	1010	6	1	1.134,000	**6417938**

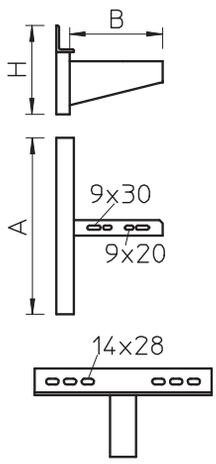
St Steel /pc.

FT Hot-dip galvanised

The heavyweight wall bracket can be used in conjunction with wide span systems or for large support distances of cable tray or cable ladder systems.

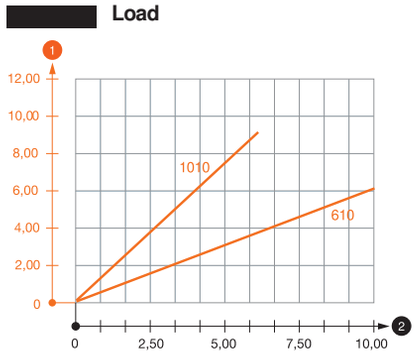
Wall bracket, heavy-duty.

Dimensions



Type	Dimension B mm	Dimension A mm	Dimension H mm	Hole Ø mm
AWSS 21 FT	210	400	200	14
AWSS 31 FT	310	400	335	14
AWSS 41 FT	410	400	335	14
AWSS 51 FT	510	400	335	14
AWSS 61 FT	610	400	335	14
AWSS 71 FT	710	400	335	14
AWSS 81 FT	810	400	341	14
AWSS 91 FT	910	400	366	14
AWSS 101 FT	1010	400	391	14

Load



Load diagram, bracket type AWSS

1 Bending of the bracket tip at permitted bracket load

2 Approved bracket load in kN without man load

— Load curve with bracket lengths in mm

Characteristic anchor load values for wall and clamping bracket AWSS

Wall fastening									
F F	Max. load F [kN]								
	Bracket width [mm]								
Anchor type	210	310	410	510	610	710*	810*	910*	1010*
BZ 70 M12-15/110	10,00	10,00	10,00	10,00	10,00	8,00	7,00	6,50	5,50

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. Observe the load capacity of the brackets (diagram) and the installation conditions of the DIBt approval (anchors).
The testing of the widths 710–1010 mm took place at the maximum route width (600 mm) with the load at the end of the bracket.

Always indicate the item number when ordering.

Adapter plate

Type	Height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KA-AW 30 FT	140	1	262,000	**6346715**
KA-AW 80 FT	270	1	424,000	**6346731**

St Steel /pc.

FT Hot-dip galvanised

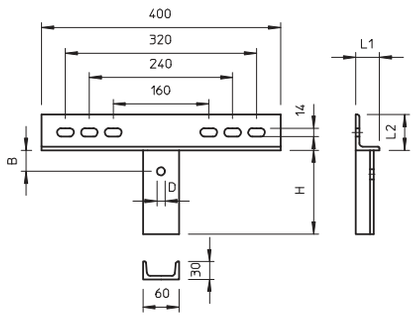
The bracket types AW 30, AW 55 ad AW 80 can be screwed to the adapter plate.
Please order the hexagonal bolt for bracket mounting (type SKS 12 x 40 GF) separately.

Adapter plate with slots for universal fastening to vertical steel girders and walls.



Dimensions

Type	Height mm	Width mm
KA-AW 30 FT	140	400
KA-AW 80 FT	270	400



Load

Adapter plate, bracket load			
		Max. total load F in kN	
		KA-AW 30 with bracket:	
	Anchor type	AW 30/11 - AW 30/61	AW 55/21 - AW 55/41
	BZ 70 M12-15/110	3,00	5,50

Adapter plate, bracket load			
		Max. total load F in kN	
		KA-AW 80 with bracket:	
	Anchor type	AW 55/51 - AW 55/101	AW 80/21 - AW 80/81
	BZ 70 M12-15/110	5,50	8,00

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. Observe the load capacity of the brackets (diagram) and the installation conditions of the DIBt approval (anchors).

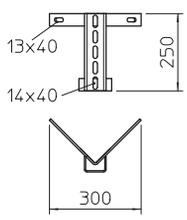
Corner seat

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KA-EA FT	2	201,000	**6346763**

St Steel /pc.

FT Hot-dip galvanised

Corner seat with welded U profile for fastening to 90° external corners. Wall and support brackets are screwed to the U profile.





Always indicate the item number when ordering.

Adapter plate



Type	Width mm		Pack. pcs	Weight kg/100 pcs.	Item No.
KA-E 45 FT	400	–	1	618,000	**6346758**

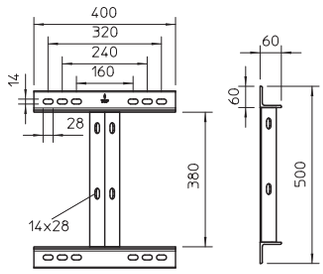
St Steel /pc.

FT Hot-dip galvanised

To support cable support systems in building corners and jumps. The hexagonal bolts, type SKS 12 x 40 GF, are used to fasten the brackets to the adapter plate. Please order the appropriate quantity.

Adapter plate with slots for universal fastening to vertical steel girders and walls. Wall and support brackets are screwed to the adapter plate at a 45° angle.

Dimensions



Type	Height mm	Width mm
KA-E 45 FT	500	400

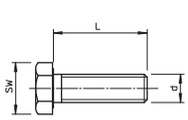
Load

Adapter plate, bracket load				
		Max. total load F in kN		
		KA-E 45 with bracket:		
	Anchor type	AW 30	AW 55	AW 80
	BZ 70 M12-15/110	3,00	5,50	8,00

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. Observe the load capacity of the brackets (diagram) and the installation conditions of the DIBt approval (anchors). Mounting information: When using this component, please order a bracket which is 500 mm longer than the width of the tray/ladder.

Hexagonal bolt





Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 12X40 G F	M12 x 40	40	12	19	10	9,800	**3164020**

St Steel /100 pc.

F Hot-dip galvanised

For fastening wall and support brackets on adapter plates.

Hexagonal bolt with hexagonal nut, large washer and washer.

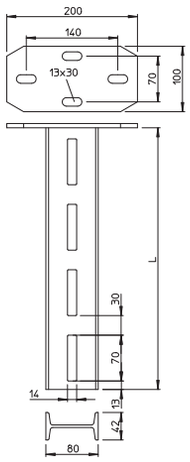
Always indicate the item number when ordering.

IS 8 support

Type	Length mm	Tensile load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
IS 8 K 20 FT	200	12	1	209,000	**6361021**
IS 8 K 30 FT	300	12	1	265,000	**6361056**
IS 8 K 40 FT	400	12	1	325,000	**6361072**
IS 8 K 50 FT	500	12	1	383,000	**6361099**
IS 8 K 60 FT	600	12	1	441,000	**6361110**
IS 8 K 70 FT	700	12	1	499,000	**6361137**
IS 8 K 80 FT	800	12	1	557,000	**6361153**
IS 8 K 90 FT	900	12	1	615,000	**6361188**
IS 8 K 100 FT	1000	12	1	673,000	**6361218**
IS 8 K 110 FT	1100	12	1	731,000	**6361234**
IS 8 K 120 FT	1200	12	1	789,000	**6361250**
IS 8 K 130 FT	1300	12	1	847,000	**6361277**
IS 8 K 140 FT	1400	12	1	905,000	**6361293**
IS 8 K 150 FT	1500	12	1	963,000	**6361315**
IS 8 K 160 FT	1600	12	1	1.021,000	**6361331**
IS 8 K 170 FT	1700	12	1	1.079,000	**6361366**
IS 8 K 180 FT	1800	12	1	1.137,000	**6361382**
IS 8 K 200 FT	2000	12	1	1.253,000	**6361420**

St Steel /pc.

FT Hot-dip galvanised





Single and double-sided brackets of type AS 15, AS 30 and AS 55 can be fastened to the IS 8 K suspended support. The height of the brackets is infinitely adjustable.

I support with welded head plate. For fastening to horizontal concrete ceilings and steel girders.

Load diagram, I support, type IS 8 K

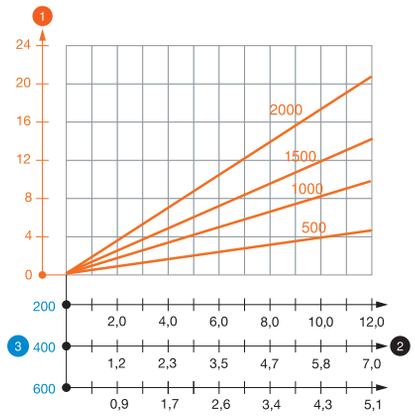
Load

1 Bending of the end of the suspended support at permitted bracket load

2 Approved bracket load in kN without man load

3 Bracket length in mm

— Load curves with support lengths in mm



Characteristic anchor load values for IS 8 K suspended support

Single-sided load							
		Max. load F [kN]					
		Bracket width [mm]					
	Anchor type	110	210	310	410	510	610
	BZ-U 10-10/90	4,00	3,25	2,70	3,00	1,75	1,75
	BZ 70 M12-15/110	7,25	5,75	4,75	4,00	3,25	3,00

Double-sided load							
		Max. load F [kN]					
		Bracket width [mm]					
	Anchor type	110	210	310	410	510	610
	BZ-U 10-10/90	7,00	6,25	5,70	5,25	4,75	4,50
	BZ 70 M12-15/110	12,00	11,30	9,75	9,00	8,50	8,00

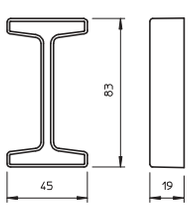
Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing ai = 14 cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

End cap

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
IS 8 KS OR	Pastel orange	20	0,800	**6338519**

PE Polyethylene /pc.

End cap to cover the ends of IS 8 supports.



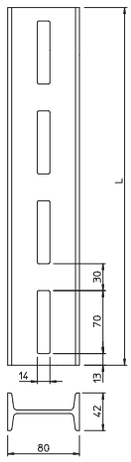


Always indicate the item number when ordering.

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IS 8 support





Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
IS 8 30 FT	300	1	171,000	**6337031**
IS 8 40 FT	400	1	229,000	**6337058**
IS 8 50 FT	500	1	286,000	**6337066**
IS 8 60 FT	600	1	344,000	**6337074**
IS 8 70 FT	700	1	402,000	**6337082**
IS 8 80 FT	800	1	459,000	**6337090**
IS 8 90 FT	900	1	517,000	**6337104**
IS 8 100 FT	1000	1	575,000	**6337112**
IS 8 110 FT	1100	1	632,000	**6337120**
IS 8 120 FT	1200	1	690,000	**6337139**
IS 8 130 FT	1300	1	748,000	**6337147**
IS 8 140 FT	1400	1	806,000	**6337155**
IS 8 150 FT	1500	1	863,000	**6337163**
IS 8 160 FT	1600	1	921,000	**6337171**
IS 8 170 FT	1700	1	979,000	**6337198**
IS 8 180 FT	1800	1	1.036,000	**6337201**
IS 8 190 FT	1900	1	1.094,000	**6337228**
IS 8 200 FT	2000	1	1.152,000	**6337236**
IS 8 300 FT	3000	1	1.730,000	**6337244**
IS 8 600 FT	6000	1	3.460,000	**6337252**

St Steel /pc.

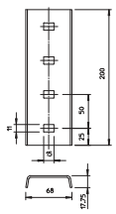
FT Hot-dip galvanised

Single and double-sided brackets of type AS 15, AS 30 and AS 55 can be fastened to the IS 8 I support. The height of the brackets is infinitely adjustable.

I support in fixed lengths. Dimensions 80 x 42 mm.

I support connector





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VIS 8 FT	10	87,000	**6018300**

St Steel /pc.

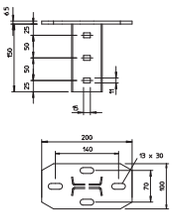
FT Hot-dip galvanised

Including appropriate fastening material.

I support connector to connect IS 8 supports.

Head plate, longitudinal





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KI 8 FT	1	155,000	**6347053**

St Steel /pc.

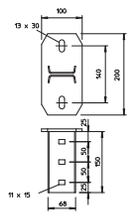
FT Hot-dip galvanised

Including appropriate fastening material.
Limit the length of the support to max. 2,000 mm.

Head plate for mounting on IS 8 support. The cable trays and ladders run in a straight direction.

Head plate, transverse





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KI 8 NOK FT	1	163,000	**6347061**

St Steel /pc.

FT Hot-dip galvanised

Including appropriate fastening material.
Limit the length of the support to max. 2,000 mm.

Head plate for installation in IS 8 support. The cable trays and ladders run in a transverse direction.

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Head plate, variable

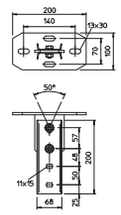
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KI 8 VQP FT	1	219,000	**6348106**

St Steel /pc.

FT Hot-dip galvanised

Including appropriate fastening material.
Limit the length of the support to max. 2,000 mm.

Variable head plate, adjustable in straight direction, for installation on IS 8 support.





Head plate, variable, longitudinal

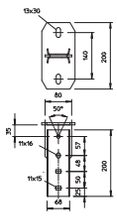
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KI 8 VLK FT	1	227,000	**6348157**

St Steel /pc.

FT Hot-dip galvanised

Including appropriate fastening material.
Limit the length of the support to max. 2,000 mm.

Variable head plate, adjustable in straight direction, for installation on IS 8 support.





Head plate, variable, transverse

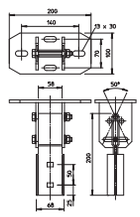
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KI 8 VLP FT	1	263,000	**6347843**

St Steel /pc.

FT Hot-dip galvanised

Including appropriate fastening material.
Limit the length of the support to max. 2,000 mm.

Variable head plate, adjustable in transverse direction, for installation on IS 8 support.





Head plate for welding

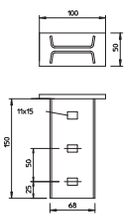
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KI 8 AOX FT	1	90,000	**6347088**

St Steel /pc.

FT Hot-dip galvanised

Including appropriate fastening material.
Limit the length of the support to max. 2,000 mm.

Head plate for welded mounting on IS 8 support.





Adapter head plate, symmetrical

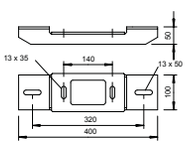
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KA-SY FT	1	277,000	**6346804**

St Steel /pc.

FT Hot-dip galvanised

The adapter head plate increases the load capacity of the IS 8 K and US 7 K supports, taking the characteristic anchor values into account.

Adapter head plate, symmetrical, to increase the load capacity of supports, type US 7 K and IS 8 K.

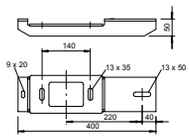




Always indicate the item number when ordering.

Adapter head plate, asymmetrical





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KA-ASY FT	1	280,000	**6346820**

St Steel /pc.

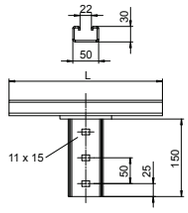
FT Hot-dip galvanised

The adapter head plate increases the load capacity of the IS 8 K and US 7 K supports, taking the characteristic anchor values into account.

Adapter head plate, asymmetrical, to increase the load capacity of supports, type US 7 K and IS 8 K.

Head plate with a welded-on CPS 5 rail





Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KI8 CPS5-1-300FT	300	1	166,000	**6347026**
KI8 CPS5-1-400FT	400	1	195,000	**6347030**
KI8 CPS5-1-500FT	500	1	224,000	**6347028**

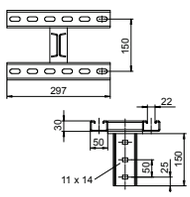
St Steel /pc.

FT Hot-dip galvanised

Head plate with a welded-on CPS 5 profile rail for mounting to an IS 8 support. The fastening to the T support is done using the appropriate chuck jaws. The rail route is in longitudinal direction.

Head plate with two welded-on CPS 5 rails





Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KI8 CPS5-2-300FT	300	1	281,000	**6347036**
KI8 CPS5-2-400FT	400	1	339,000	**6347032**
KI8 CPS5-2-500FT	500	1	397,000	**6347038**

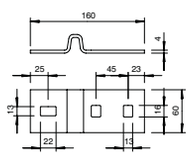
St Steel /pc.

FT Hot-dip galvanised

Head plate with two welded-on CPS 5 profile rails for the mounting to the IS 8 support. The fastening to the T support is done using the appropriate chuck jaws. The rail route is in longitudinal direction.

Support strap





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
AHIS 8 FT	10	89,000	**6019064**

St Steel /pc.

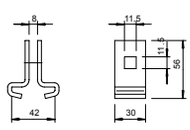
FT Hot-dip galvanised

Including appropriate fastening material.

Support strap for right-angled connection of I supports.

Support claw





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TGK 30 42 FT	10	17,000	**6018963**

St Steel /pc.

FT Hot-dip galvanised

The support claw can also be used in conjunction with the heavy-duty ladder, type SLS 80.

Support claw with truss-head bolt, type FRS M10 x 25 for mounting on the IS 8 support.

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Always indicate the item number when ordering.

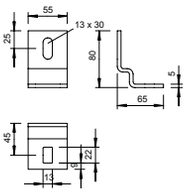
Mounting angle

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
BW 80 55 FT	10	26,400	**6019528**

St Steel /pc.

FT Hot-dip galvanised

The mounting angle can also be used in conjunction with the heavy-duty vertical ladder, type SLS 80.
Including fastening bolt M12 x 30.
Mounting angle for mounting IS 8 supports on the wall.





Support bracket AS 15

Type	Width mm	F in kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AS 15 11 FT	110	1.5	30	21,500	**6421326**
AS 15 16 FT	160	1.5	30	26,000	**6421334**
AS 15 21 FT	210	1.5	25	32,000	**6421350**
AS 15 31 FT	310	1.5	25	41,000	**6421385**
AS 15 41 FT	410	1.5	30	59,000	**6421423**
AS 15 51 FT	510	1.5	10	73,000	**6421466**
AS 15 61 FT	610	1.5	10	82,000	**6421490**

St Steel /pc.

FT Hot-dip galvanised

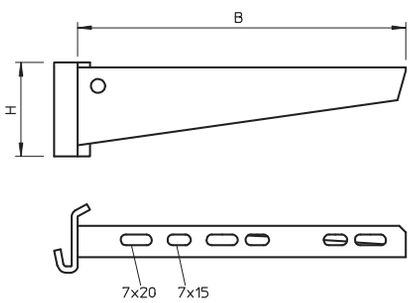
The support bracket can be fastened to both sides of the I support.
Tensioning hooks, including nuts and washer, can also be ordered individually under item number 6437184.

Light-duty support bracket for infinitely adjustable fastening on IS 8 support.



Dimensions

Type	Dimension B mm	Dimension H mm
AS 15 11 FT	110	50
AS 15 16 FT	160	55
AS 15 21 FT	210	60
AS 15 31 FT	310	65
AS 15 41 FT	410	70
AS 15 51 FT	510	75
AS 15 61 FT	610	80



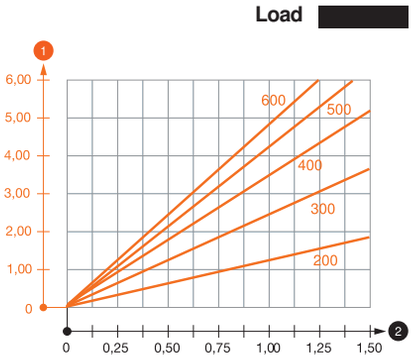
Load diagram, bracket type AS 15

Load

1 Bending of the bracket tip at permitted bracket load

2 Approved bracket load in kN without man load

— Load curve with bracket lengths in mm



Always indicate the item number when ordering.

Support bracket AS 30



Type	Width mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AS 30 11 FT	110	3	1	30,000	**6419370**
AS 30 16 FT	160	3	1	37,000	**6419376**
AS 30 21 FT	210	3	1	44,000	**6419382**
AS 30 31 FT	310	3	1	78,000	**6419388**
AS 30 41 FT	410	3	1	100,000	**6419394**
AS 30 51 FT	510	3	1	140,000	**6419400**
AS 30 56 FT	560	3	1	155,000	**6419406**
AS 30 61 FT	610	3	1	168,000	**6419412**
AS 30 71 FT	710	3	1	214,000	**6419418**

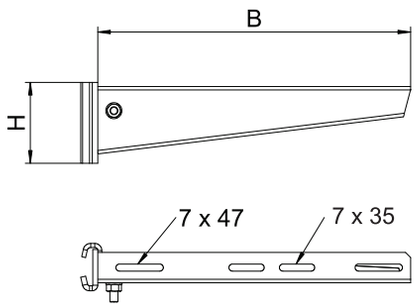
St Steel /pc.

FT Hot-dip galvanised

The support bracket can be fastened to both sides of the I support.
The individual clamping lug, including bolt, nut and washer can also be ordered separately under the article no. 6419007.

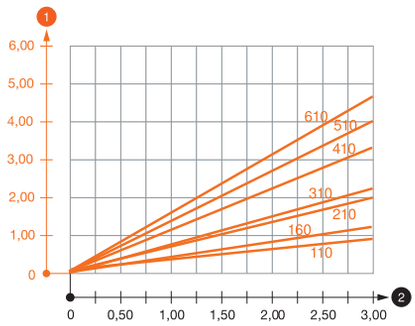
Medium-duty support bracket for infinitely adjustable fastening on IS 8 support.

Dimensions



Type	Dimension B mm	Dimension H mm
AS 30 11 FT	110	60
AS 30 16 FT	160	65
AS 30 21 FT	210	70
AS 30 31 FT	310	80
AS 30 41 FT	410	80
AS 30 51 FT	510	90
AS 30 56 FT	560	100
AS 30 61 FT	610	100
AS 30 71 FT	710	100

Load



Load diagram, bracket type AS 30

1 Bending of the bracket tip at permitted bracket load

2 Approved bracket load in kN without man load

— Load curve with bracket lengths in mm

Always indicate the item number when ordering.

Support bracket AS 55

Type	Width mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AS 55 21 FT	210	5.5	1	81,000	**6419286**
AS 55 31 FT	310	5.5	1	133,000	**6419292**
AS 55 41 FT	410	5.5	1	173,000	**6419298**
AS 55 51 FT	510	5.5	1	233,000	**6419304**
AS 55 56 FT	560	5.5	1	260,000	**6419310**
AS 55 61 FT	610	5.5	1	283,000	**6419316**
AS 55 71 FT	710	5.5	1	385,000	**6419322**
AS 55 81 FT	810	5.5	1	444,000	**6419328**
AS 55 91 FT	910	5.5	1	517,000	**6419334**
AS 55 101 FT	1010	5.5	1	595,000	**6419340**

St Steel /pc.

FT Hot-dip galvanised

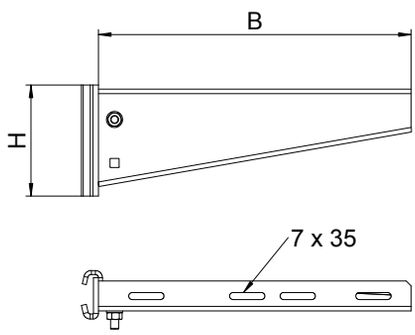


The support bracket can be fastened to both sides of the I support.
The individual clamping lug, including bolt, nut and washer can also be ordered separately under the article no. 6419007.

Heavy-duty support bracket for infinitely adjustable fastening on IS 8 support.

Dimensions

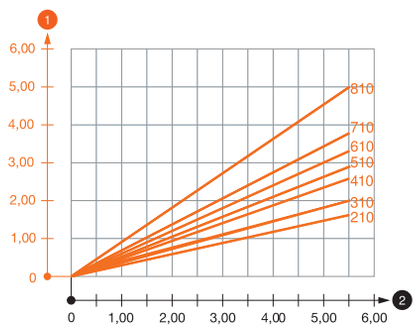
Type	Dimension B mm	Dimension H mm
AS 55 21 FT	210	90
AS 55 31 FT	310	110
AS 55 41 FT	410	130
AS 55 51 FT	510	145
AS 55 56 FT	560	165
AS 55 61 FT	610	165
AS 55 71 FT	710	195
AS 55 81 FT	810	195
AS 55 91 FT	910	195
AS 55 101 FT	1010	195



Load

Load diagram, bracket type AS 55

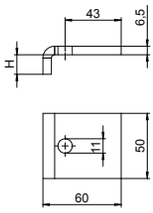
1. Bending of the bracket tip at permitted bracket load
2. Approved bracket load in kN without man load
- Load curve with bracket lengths in mm



Always indicate the item number when ordering.

Clamping angle





Type	Height mm	Bolt	Pack. pcs	Weight kg/100 pcs.	Item No.
KL1 10 S FT	10	M10 x 40	10	22,500	**6354106**
KL1 15 S FT	15	M10 x 50	10	24,000	**6354114**
KL1 20 S FT	20	M10 x 50	10	25,000	**6354122**

St Steel /pc.

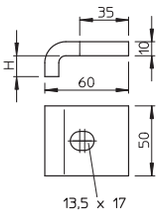
FT Hot-dip galvanised

Choose the clamping angle according to the thickness of the flange.

Clamping angle, type KL1, to fasten light support structures to steel girder flanges.

Clamping angle KWS





Type	Height mm	F in kN	Bolt	Pack. pair	Weight kg/100 pairs	Item No.
KWS 5 FT	5	5.7	M12 x 40	10	63,000	**6355218**
KWS 10 FT	10	5.7	M12 x 50	10	68,000	**6355226**
KWS 15 FT	15	5.7	M12 x 50	10	70,000	**6355234**
KWS 20 FT	20	5.7	M12 x 60	10	76,000	**6355242**
KWS 25 FT	25	5.7	M12 x 60	10	80,000	**6355250**

St Steel /pair

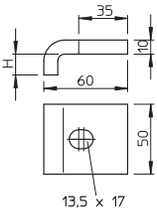
FT Hot-dip galvanised

Choose the clamping angle according to the thickness of the flange.

Clamping angle, with hexagonal bolt, type KWS, for direct fixing of constructions to steel girder flanges.

Clamping angle KWH





Type	Height mm	F in kN	Bolt	Pack. pair	Weight kg/100 pairs	Item No.
KWH 5 FT	5	5.7	M12 x 40	10	63,000	**6355021**
KWH 10 FT	10	5.7	M12 x 50	10	68,000	**6355048**
KWH 15 FT	15	5.7	M12 x 50	10	70,000	**6355056**
KWH 20 FT	20	5.7	M12 x 60	10	76,000	**6355064**
KWH 25 FT	25	5.7	M12 x 60	10	80,000	**6355072**

St Steel /pair

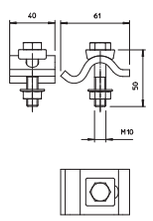
FT Hot-dip galvanised

Choose the clamping angle according to the thickness of the flange.
The clamping angle is used in conjunction with profile rails of slot width 22 mm (e.g. type CPS 5).

Clamping angle, with hammer-head bolt, type KWH, for fixing in the mounting rail, type CPS 5.

Chuck jaw, light-duty TKS





Type	Height mm	F in kN	Pack. pair	Weight kg/100 pairs	Item No.
TKS-L-25 FT	25	10	10	39,000	**6355808**

St Steel /pair

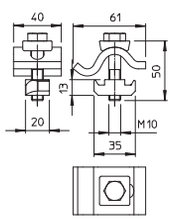
FT Hot-dip galvanised

The clamping range of the chuck jaw is limited to the maximum fastening thickness, 25 mm.

Chuck jaw with hexagonal nut for direct fastening of structures to steel girders.

Chuck jaw, light-duty TKH





Type	Height mm	F in kN	Pack. pair	Weight kg/100 pairs	Item No.
TKH-L-25 FT	25	10	10	46,000	**6355812**

St Steel /pair

FT Hot-dip galvanised

The clamping range of the chuck jaw is limited to the maximum fastening thickness, 25 mm.
The chuck jaw is used in conjunction with profile rails of slot width 18 and 22 mm (type CPS 4; CPS 5; MS 22/41).

Light duty tensioning claw with slide nut for fixing mounting rails to steel girder flanges.

Always indicate the item number when ordering.

Chuck jaw, heavy-duty TKS

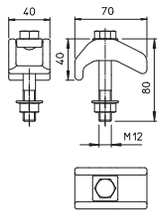
Type	Height mm	F in kN kN	Pack. pair	Weight kg/100 pairs	Item No.
TKS-S-30 FT	30	21	10	82,000	**6355800**

St Steel /pair

FT Hot-dip galvanised

The clamping range of the chuck jaw is limited to the maximum fastening thickness, 30 mm.

Heavy-duty chuck jaw with hexagonal nut for direct fastening of structures to steel girders.





Chuck jaw, heavy-duty TKH

Type	Height mm	F in kN kN	Pack. pair	Weight kg/100 pairs	Item No.
TKH-S-30 FT	30	21	10	81,000	**6355804**

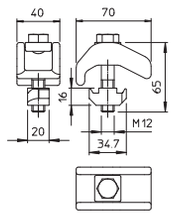
St Steel /pair

FT Hot-dip galvanised

The clamping range of the chuck jaw is limited to the maximum fastening thickness, 30 mm.

The chuck jaw is used in conjunction with profile rails of slot width 22 mm (e.g. type CPS 5).

Heavy-duty chuck jaw with slide nut for fastening profile rails to steel girders.





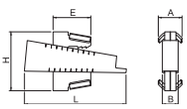
Beam clamp TKM Chock FS

Type	Dim. L mm	Dimension H mm	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
TKM Chock 1 FS	111	61	2	25	16,100	**1480850**
TKM Chock 2 FS	111	65	3.5	25	16,400	**1480852**
TKM Chock 3 FS	111	65	5	25	16,800	**1480854**

St Steel /pc.

FS Strip-galvanised

Support clamp for knocking in on the support with flange thicknesses of 8–20 mm.
Suitable for parallel and inclined flanges.
Maximum flange inclination: 14%



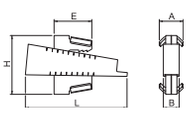


Beam clamp TKM Chock V4A

Type	Dim. L mm	Dimension H mm	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
TKM Chock 2 V4A	111	65	3.5	25	16,400	**1480882**

V4A Stainless steel, grade 316 Ti /pc.

Support clamp for knocking in on the support with flange thicknesses of 8–20 mm.
Suitable for parallel and inclined flanges.
Maximum flange inclination: 14%





Beam clamp SSP, FT

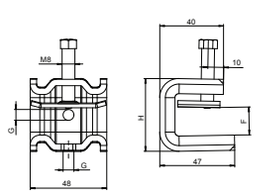
Type	Flange thickness mm	Dimension H mm	For threaded rod	Pack. pcs	Weight kg/100 pcs.	Item No.
SSP 6-21 M6 FT	6 - 21	46	M6	25	23,900	**1486232**

St Steel /100 pc.

FT Hot-dip galvanised

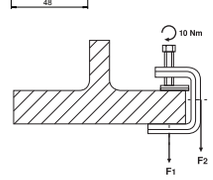
This type of support clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M6 threads are also incorporated, to fix threaded rods, for example.





SSP 6-21 M6 FT

Breaking load F1 kN	1.75
Breaking load F2 kN	1.5



Always indicate the item number when ordering.

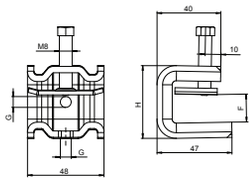
Beam clamp SSP, FT



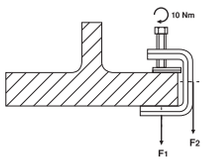
Type	Flange thickness mm	Dimension H mm	For threaded rod	Pack. pcs	Weight kg/100 pcs.	Item No.
SSP 6-21 M8 FT	6 - 21	46	M8	25	23,900	**1486282**

St Steel /100 pc.

FT Hot-dip galvanised



This type of support clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M8 threads are also incorporated to fix threaded rods, for example.



SSP 6-21 M8 FT

Breaking load F1 kN	1.75
Breaking load F2 kN	1.5

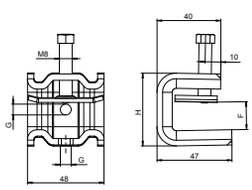
Beam clamp SSP, FT



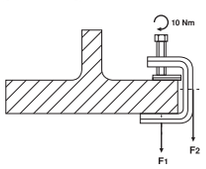
Type	Flange thickness mm	Dimension H mm	For threaded rod	Pack. pcs	Weight kg/100 pcs.	Item No.
SSP 20-40 M6 FT	20 - 40	65	M6	25	27,700	**1486238**

St Steel /100 pc.

FT Hot-dip galvanised



This type of support clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M6 threads are also incorporated, to fix threaded rods, for example.



SSP 20-40 M6 FT

Breaking load F1 kN	1.4
Breaking load F2 kN	1.3

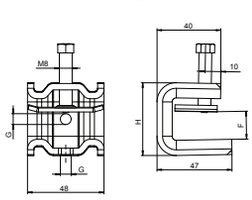
Beam clamp SSP, FT



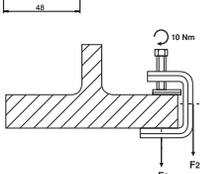
Type	Flange thickness mm	Dimension H mm	For threaded rod	Pack. pcs	Weight kg/100 pcs.	Item No.
SSP 20-40 M8 FT	20 - 40	65	M8	25	27,800	**1486288**

St Steel /100 pc.

FT Hot-dip galvanised



This type of support clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M8 threads are also incorporated to fix threaded rods, for example.



SSP 20-40 M8 FT

Breaking load F1 kN	1.4
Breaking load F2 kN	1.3

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Always indicate the item number when ordering.

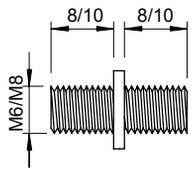
Double nipple

Type	Thread length mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
3100 M6 G	8	2600	100	0,355	**3131068**
3100 M8 G	10	2400	100	0,680	**3131084**

St Steel /100 pc.

G Electrogalvanised

Double nipple with metric thread.





Beam clamp, vertical BFK 166

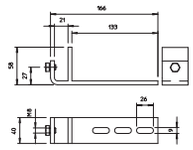
Type	Dimension B mm	Dimension b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BFK 166 58 20 FT	166	133	10	45,000	**6003888**

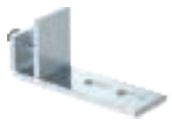
St Steel /pc.

FT Hot-dip galvanised

The cable support system attached to the beam clamp runs vertically.

Beam clamp for clamping on the steel girder.





Beam clamp, vertical BFK 132

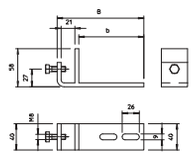
Type	Dimension B mm	Dimension b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BFK 132 58 FT	132	99	10	39,000	**6003880**

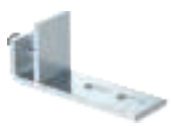
St Steel /pc.

FT Hot-dip galvanised

The cable support system attached to the beam clamp runs vertically.

Beam clamp for clamping on the steel girder.





Beam clamp, horizontal BFK 153

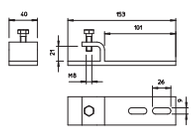
Type	Dimension B mm	Dimension b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BFK 153 33 FT	153	101	10	37,000	**6003884**

St Steel /pc.

FT Hot-dip galvanised

The cable support system attached to the beam clamp runs horizontally.

Beam clamp for clamping on the steel girder.





Beam clamp, horizontal BFK 187

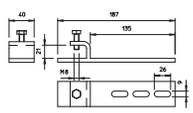
Type	Dimension B mm	Dimension b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BFK 187 33 FT	187	135	10	43,000	**6003892**

St Steel /pc.

FT Hot-dip galvanised

The cable support system attached to the beam clamp is horizontal routing.

Beam clamp for clamping on the steel girder.

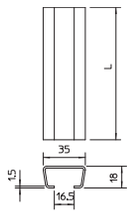




Always indicate the item number when ordering.

Medium anchor profile rail





Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
AML3518UP2000BK	35 x 18	1.5	2000	20	90,000	**1118021**
AML3518UP2000FS	35 x 18	1.5	2000	20	90,000	**1118226**
AML3518UP2000FT	35 x 18	1.5	2000	20	89,400	**1118129**

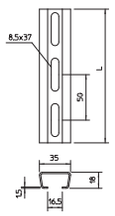
St Steel price/100 m

FS Strip-galvanised BK Bright FT Hot-dip galvanised

Profile rail, unperforated, slot width 16.5 mm.

Medium anchor profile rail





Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
AML3518P0200FT	35 x 18	1.5	200	25	17,800	**1119696**
AML3518P0300FT	35 x 18	1.5	300	25	26,700	**1119693**
AML3518P0400FT	35 x 18	1.5	400	10	35,600	**1119690**
AML3518P0500FT	35 x 18	1.5	500	10	44,500	**1119687**
AML3518P0600FT	35 x 18	1.5	600	10	53,400	**1119684**
AML3518P0700FT	35 x 18	1.5	700	10	62,300	**1119681**
AML3518P0800FT	35 x 18	1.5	800	10	71,200	**1119678**

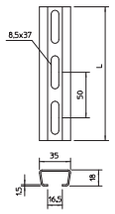
St Steel /100 pc.

FT Hot-dip galvanised

Profile rail, perforated, slot width 16.5 mm.

Medium anchor profile rail





Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
AML3518P1000FT	35 x 18	1.5	1000	10	89,000	**1119672**
AML3518P2000FT	35 x 18	1.5	2000	20	89,000	**1119656**

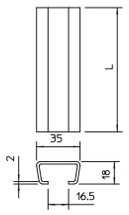
St Steel price/100 m

FT Hot-dip galvanised

Profile rail, perforated, slot width 16.5 mm.

Medium anchor profile rail





Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
AMS3518UP2000BK	35 x 18	2	2000	20	116,000	**1112023**
AMS3518UP2000FS	35 x 18	2	2000	20	116,000	**1112120**
AMS3518UP2000FT	35 x 18	2	2000	20	121,350	**1112228**

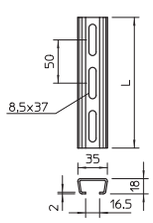
St Steel price/100 m

FS Strip-galvanised BK Bright FT Hot-dip galvanised

Profile rail, unperforated, slot width 16.5 mm.

Medium anchor profile rail





Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
AMS3518P2000FS	35 x 18	2	2000	2	115,000	**1112708**
AMS3518P2000FT	35 x 18	2	2000	20	122,000	**1112759**

St Steel price/100 m

FS Strip-galvanised FT Hot-dip galvanised

Profile rail, perforated, slot width 16.5 mm.

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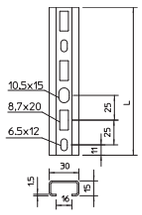
Medium C profile rail

Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
CM3015P0200FT	30 x 15	1.5	200	25	15,000	**1109782**
CM3015P0300FT	30 x 15	1.5	300	25	22,000	**1109790**
CM3015P0400FT	30 x 15	1.5	400	10	30,000	**1109804**
CM3015P0500FT	30 x 15	1.5	500	10	37,000	**1109812**
CM3015P0600FT	30 x 15	1.5	600	10	44,000	**1109820**
CM3015P0700FT	30 x 15	1.5	700	10	50,000	**1109839**
CM3015P0800FT	30 x 15	1.5	800	10	56,000	**1109847**

St Steel /100 pc.

FT Hot-dip galvanised

Profile rail, perforated, slot width 16 mm.





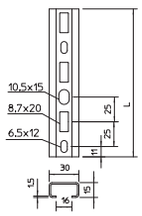
Medium C profile rail

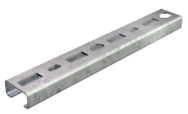
Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
CM3015P1000FT	30 x 15	1.5	1000	10	73,000	**1109863**
CM3015P2000FT	30 x 15	1.5	2000	20	73,000	**1109871**
CM3015P2000FS	30 x 15	1.5	–	2	69,000	**1110002**

St Steel price/100 m

FS Strip-galvanised FT Hot-dip galvanised

Profile rail, perforated, slot width 16 mm.





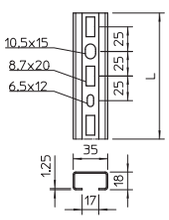
Medium C profile rail

Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
CML3518P0200FS	35 x 18	1.25	200	25	14,200	**1104268**
CML3518P0300FS	35 x 18	1.25	300	25	21,300	**1104284**
CML3518P0400FS	35 x 18	1.25	400	10	28,400	**1104292**
CML3518P0500FS	35 x 18	1.25	500	10	35,500	**1104306**
CML3518P0600FS	35 x 18	1.25	600	10	42,600	**1104310**
CML3518P0700FS	35 x 18	1.25	700	10	49,700	**1104315**
CML3518P0800FS	35 x 18	1.25	800	10	56,800	**1104320**
CML3518P0900FS	35 x 18	1.25	900	10	63,900	**1104325**

St Steel /100 pc.

FS Strip-galvanised

Light-duty profile rail, perforated, slot width 17 mm.





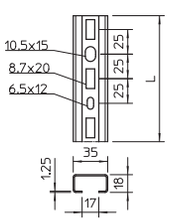
Medium C profile rail

Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
CML3518P1000FS	35 x 18	1.25	1000	1	71,000	**1104497**
CML3518P2000FS	35 x 18	1.25	2000	2	71,000	**1104500**

St Steel price/100 m

FS Strip-galvanised

Light-duty profile rail, perforated, slot width 17 mm.



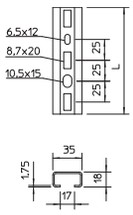


04 KTS Masterkatalog Länder / en / 07/07/2017 (LLExport_04366) / 07/07/2017

Always indicate the item number when ordering.

Medium C profile rail





Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
CMS3518P0150FS	35 x 18	1.75	150	25	14,670	**1104349**
CMS3518P0200FS	35 x 18	1.75	200	25	19,560	**1104357**
CMS3518P0300FS	35 x 18	1.75	300	25	29,340	**1104373**
CMS3518P0400FS	35 x 18	1.75	400	10	39,120	**1104391**
CMS3518P0500FS	35 x 18	1.75	500	10	48,900	**1104403**
CMS3518P0600FS	35 x 18	1.75	600	10	58,680	**1104411**
CMS3518P0800FS	35 x 18	1.75	800	10	78,240	**1104427**
CMS3518P0900FS	35 x 18	1.75	900	10	88,020	**1104435**

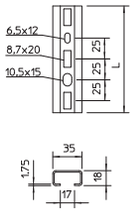
St Steel /100 pc.

FS Strip-galvanised

Profile rail, perforated, slot width 17 mm.

Medium C profile rail





Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
CMS3518P1000FS	35 x 18	1.75	1000	10	97,800	**1104445**
CMS3518P2000FS	35 x 18	1.75	2000	2	97,800	**1104454**

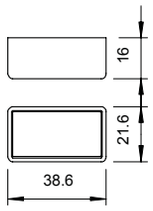
St Steel price/100 m

FS Strip-galvanised

Profile rail, perforated, slot width 17 mm.

End cap CM3518





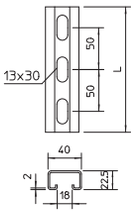
Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
CM3518 SK	Pastel orange	50	0,420	**1124502**

PE Polyethylene /100 pc.

End cap for profile rail types CM3518 and AM3518.

Heavy-duty mounting rail





Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
MS4022P2000FT	40 x 22,5	2	2000	10	160,000	**1121979**
MS4022P6000FT	40 x 22,5	2	6000	6	160,000	**1121898**

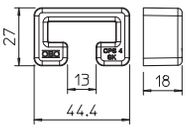
St Steel price/100 m

FT Hot-dip galvanised

Heavy-duty profile rail, perforated, slot width 18 mm.

End cap MS4022





Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
MS4022 SK	Pastel orange	25	0,675	**1124555**

PE Polyethylene /100 pc.

End caps for profile rail, type MS4022.

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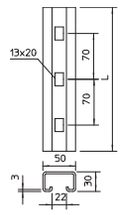
Heavy-duty mounting rail

Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MS5030P0220FT	50 x 30	3	220	1	69,000	**6349404**
MS5030P0260FT	50 x 30	3	260	1	81,500	**6349412**
MS5030RP0300FT	50 x 30	3	300	1	94,000	**6349439**
MS5030P0340FT	50 x 30	3	340	1	107,000	**6349447**
MS5030P0380FT	50 x 30	3	380	1	119,000	**6349463**

St Steel /pc.

FT Hot-dip galvanised

Heavy-duty profile rail. In fixed lengths, with rectangular perforation and a slot width of 22 mm.





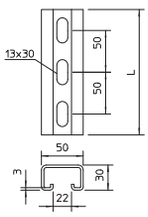
Heavy-duty mounting rail

Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MS5030P0200FT	50 x 30	3	200	1	57,000	**1121391**
MS5030P0300FT	50 x 30	3	300	1	85,000	**1121243**
MS5030P0400FT	50 x 30	3	400	1	113,000	**1121278**
MS5030P0500FT	50 x 30	3	500	1	141,000	**1121405**
MS5030P0600FT	50 x 30	3	600	1	170,000	**1121294**
MS5030P0700FT	50 x 30	3	700	1	198,000	**1121332**
MS5030P0800FT	50 x 30	3	800	1	235,000	**1121308**
MS5030P0900FT	50 x 30	3	900	1	255,000	**1121336**
MS5030P1500FT	50 x 30	3	1500	1	424,000	**1121363**

St Steel /pc.

FT Hot-dip galvanised

Heavy-duty profile rail with continuous perforation, slot width 22 mm.





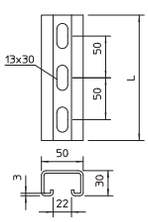
Heavy-duty mounting rail

Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
MS5030P1000FT	50 x 30	3	1000	1	282,500	**1121448**
MS5030P2000FT	50 x 30	3	2000	2	282,500	**1121464**
MS5030P3000FT	50 x 30	3	3000	3	282,500	**1121466**
MS5030P6000FT	50 x 30	3	6000	6	282,500	**1121472**

St Steel price/100 m

FT Hot-dip galvanised

Heavy-duty profile rail with continuous perforation, slot width 22 mm.



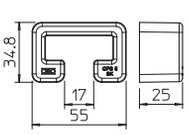


End cap MS5030

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
MS5030 SK	Pastel orange	25	1,260	**1124563**

PE Polyethylene /100 pc.

End cap for profile rail, type MS5030.





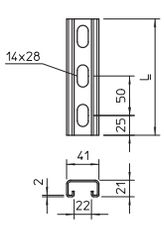
Heavy-duty mounting rail

Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
MS4121P2000FS	41x21	2	2000	2	175,000	**1122918**
MS4121P3000FS	41x21	2	3000	3	141,900	**1122920**
MS4121P6000FS	41x21	2	6000	6	141,900	**1122922**

St Steel price/100 m

FS Strip-galvanised

Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm.

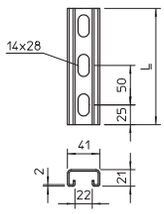




Always indicate the item number when ordering.

Heavy-duty mounting rail





Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MS4121P0200FT	41x21	2	200	1	35,100	**1122933**
MS4121P0300FT	41x21	2	300	1	53,000	**1122934**
MS4121P0400FT	41x21	2	400	1	70,000	**1122935**
MS4121P0500FT	41x21	2	500	1	87,000	**1122936**
MS4121P0600FT	41x21	2	600	1	105,000	**1122937**
MS4121P0700FT	41x21	2	700	1	123,000	**1122938**
MS4121P0800FT	41x21	2	800	1	140,000	**1122939**
MS4121P0900FT	41x21	2	900	1	158,000	**1122940**

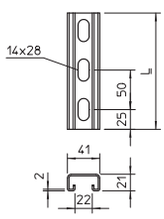
St Steel /100 pc.

FT Hot-dip galvanised

Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm.

Heavy-duty mounting rail





Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
MS4121P2000FT	41x21	2	2000	2	183,000	**1122923**
MS4121P3000FT	41x21	2	3000	3	180,340	**1122924**
MS4121P6000FT	41x21	2	6000	6	184,000	**1122926**

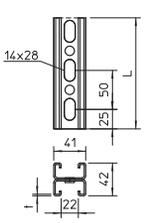
St Steel price/100 m

FT Hot-dip galvanised

Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm.

Heavy-duty mounting rail, back to back





Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
MS4142P3000FS	41x42	2	3000	3	303,000	**1122947**
MS4142P6000FS	41x42	2	6000	6	303,000	**1122948**
MS4142P3000FT	41x42	2	3000	3	303,000	**1122944**
MS4142P6000FT	41x42	2	6000	6	303,000	**1122945**

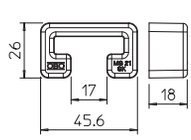
St Steel price/100 m

FS Strip-galvanised FT Hot-dip galvanised

Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm. Double version, i.e. two profile rails are interconnected on the base (clinched).

End cap MS4121





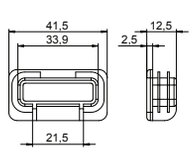
Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
MS4121 SK	Pastel orange	25	0,650	**1122902**

PE Polyethylene /100 pc.

End caps for profile rail, type MS4121.

End cap MS4121





Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
MS4121 EK	Pastel orange	50	0,645	**1122904**

PE Polyethylene /100 pc.

End cap for profile rail, type MS4121.

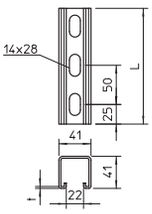
Always indicate the item number when ordering.

Heavy-duty mounting rail

Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
MSL4141P1000FS	41x41	2	1000	1	201,100	**1122970**
MSL4141P3000FS	41x41	2	3000	3	201,100	**1122972**
MSL4141P6000FS	41x41	2	6000	6	201,100	**1122974**
MSL4141P1000FT	41x41	2	1000	1	214,700	**1122962**
MSL4141P3000FT	41x41	2	3000	3	214,700	**1122964**
MSL4141P6000FT	41x41	2	6000	6	214,700	**1122966**

St Steel price/100 m

FS Strip-galvanised FT Hot-dip galvanised





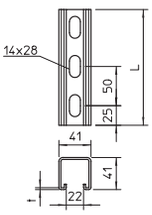
Stable profile/mounting rail with continuous perforation in base, slot width 22 mm.

Heavy-duty mounting rail

Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
MS4141P1000FS	41x41	2.5	1000	1	247,500	**1122908**
MS4141P3000FS	41x41	2.5	3000	3	247,500	**1122910**
MS4141P6000FS	41x41	2.5	6000	6	247,500	**1122912**
MS4141P1000FT	41x41	2.5	1000	1	261,400	**1122606**
MS4141P3000FT	41x41	2.5	3000	3	261,400	**1122622**
MS4141P6000FT	41x41	2.5	6000	6	260,670	**1122657**

St Steel price/100 m

FS Strip-galvanised FT Hot-dip galvanised





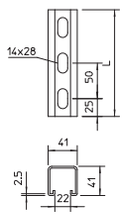
Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm.

Heavy-duty mounting rail

Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MS4141P0200FT	41x41	2.5	200	1	52,400	**1122509**
MS4141P0300FT	41x41	2.5	300	1	78,500	**1122517**
MS4141P0400FT	41x41	2.5	400	1	104,700	**1122525**
MS4141P0500FT	41x41	2.5	500	1	130,800	**1122533**
MS4141P0600FT	41x41	2.5	600	1	156,900	**1122541**
MS4141P0700FT	41x41	2.5	700	1	183,000	**1122568**
MS4141P0800FT	41x41	2.5	800	1	209,200	**1122576**
MS4141P0900FT	41x41	2.5	900	1	235,300	**1122584**

St Steel /100 pc.

FT Hot-dip galvanised





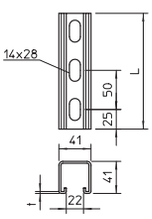
Stable profile/mounting rail with continuous perforation in base, slot width 22 mm.

Heavy-duty mounting rail

Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
MSL4141PP1000FS	41x41	2	1000	1	179,400	**1123008**
MSL4141PP3000FS	41x41	2	3000	3	179,400	**1123010**
MSL4141PP6000FS	41x41	2	6000	6	179,400	**1123012**
MSL4141PP1000FT	41x41	2	1000	1	191,500	**1123001**
MSL4141PP3000FT	41x41	2	3000	3	191,500	**1123003**
MSL4141PP6000FT	41x41	2	6000	6	191,500	**1123005**

St Steel price/100 m

FS Strip-galvanised FT Hot-dip galvanised



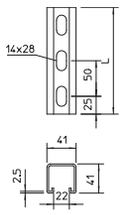


Stable profile/mounting rail with continuous, three-sided perforation, slot width 22 mm.

Always indicate the item number when ordering.

Heavy-duty mounting rail





Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
MS4141PP1000FS	41x41	2.5	1000	1	281,000	**1122481**
MS4141PP3000FS	41x41	2.5	3000	3	218,000	**1122914**
MS4141PP6000FS	41x41	2.5	6000	6	218,340	**1122916**
MS4141PP1000FT	41x41	2.5	1000	1	225,000	**1122479**
MS4141PP3000FT	41x41	2.5	3000	3	233,340	**1122483**
MS4141PP6000FT	41x41	2.5	6000	6	225,000	**1122487**

St Steel price/100 m

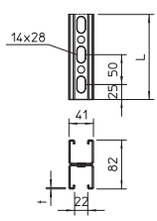
FS Strip-galvanised FT Hot-dip galvanised

Additional versions and appropriate accessories for the MS 41 system are listed in the new VBS catalogue.

Heavyweight profile/mounting rail with continuous, three-sided perforation, slot width 22 mm.

Heavy-duty mounting rail, back to back





Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
MS4182P3000FS	41x82	2	3000	3	402,200	**1122676**
MS4182P6000FS	41x82	2	6000	6	402,200	**1122678**
MS4182P3000FT	41x82	2	3000	3	402,200	**1122671**
MS4182P6000FT	41x82	2	6000	6	402,200	**1122673**

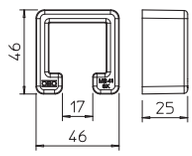
St Steel price/100 m

FS Strip-galvanised FT Hot-dip galvanised

Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm. Double version, i.e. two profile rails are interconnected on the base (clinched).

End cap MS4141





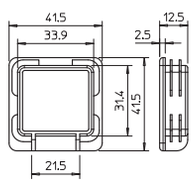
Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
MS4141 SK	Pastel orange	25	1,320	**1122900**

PE Polyethylene /100 pc.

End caps for profile rail, type MS4141.

End cap MS4141





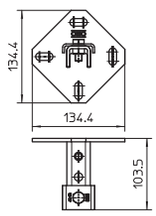
Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
MS4141 EK	Pastel orange	50	0,670	**1122906**

PE Polyethylene /100 pc.

End cap for profile rail, type MS4141.

Head plate





Type	Version	Dimension W x H mm	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WBDHE 41 G	perforated	134x110	5	102	10	73,000	**1123193**
WBDHE 41 FT	perforated	134x110	5	102	10	73,000	**1123191**

St Steel /100 pc.

G Electrogalvanised FT Hot-dip galvanised

The wall, floor and ceiling bracket can ideally be used as a panel for wall, floor and ceiling mounting.

Also suitable for stand and frame construction in conjunction with the mounting rails MS4141.

Always indicate the item number when ordering.

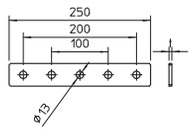
Connection plate with 5 holes

Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 5 VP G	10	10	38,810	**1124611**
GMS 5 VP FT	10	10	40,000	**1124651**

St Steel /100 pc.

G Electrogalvanised FT Hot-dip galvanised

Connection plate with five holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.





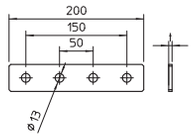
Connection plate with 4 holes

Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 4 VP G	40	10	32,340	**1124609**
GMS 4 VP FT	40	10	35,580	**1124649**

St Steel /100 pc.

G Electrogalvanised FT Hot-dip galvanised

Connection plate with four holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.





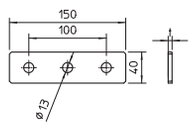
Connection plate with 3 holes

Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 VP G	80	20	21,200	**1124607**
GMS 3 VP FT	80	20	24,010	**1124647**

St Steel /100 pc.

G Electrogalvanised FT Hot-dip galvanised

Connection plate with three holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.





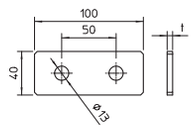
Connection plate with 2 holes

Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 2 VP G	40	10	16,170	**1124605**
GMS 2 VP FT	40	10	14,000	**1124645**

St Steel /100 pc.

G Electrogalvanised FT Hot-dip galvanised

Connection plate with two holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.





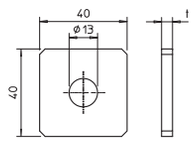
Connection plate with 1 hole

Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 1 VP G	150	10	6,470	**1124603**
GMS 1 VP FT	150	10	7,120	**1124643**

St Steel /100 pc.

G Electrogalvanised FT Hot-dip galvanised

Connection plate with lengthwise slot, for example for mounting threaded rods to profile rails 41 x 41 mm and 41 x 21 mm.





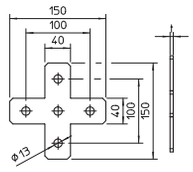
Connection plate, X-shaped

Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 5 VP X G	10	10	39,000	**1124617**
GMS 5 VP X FT	10	10	48,000	**1124657**

St Steel /100 pc.

G Electrogalvanised FT Hot-dip galvanised

Connection plate with five holes for cross connection of profile rails 41 x 41 mm and 41 x 21 mm.



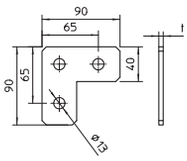


Always indicate the item number when ordering.

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Connection plate, L-shaped





Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 VP L G	40	10	20,000	**1124613**
GMS 3 VP L FT	40	10	25,000	**1124653**

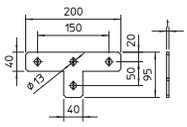
St Steel /100 pc.

G Electrogalvanised FT Hot-dip galvanised

Connection plate with three holes for angled connection of profile rails 41 x 41 mm and 41 x 21 mm.

Connection plate, T-shaped





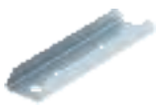
Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 4 VP T G	10	10	40,000	**1124615**
GMS 4 VP T FT	10	10	41,000	**1124655**

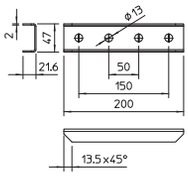
St Steel /100 pc.

G Electrogalvanised FT Hot-dip galvanised

Connection plate with four holes for T-shaped connection of profile rails 41 x 41 mm and 41 x 21 mm.

Connector





Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GVMS 4 ASV G	20	10	44,040	**1124601**
GVMS 4 ASV FT	20	10	44,040	**1124641**

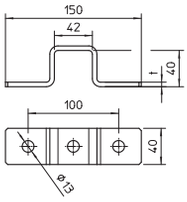
St Steel /100 pc.

G Electrogalvanised FT Hot-dip galvanised

Connector gripping from outside with four holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

Omega clamp





Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 O 4141 G	10	10	29,830	**1124633**
GMS 3 O 4141 FT	10	10	35,000	**1124673**

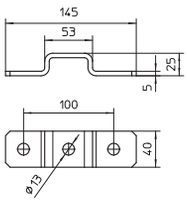
St Steel /100 pc.

G Electrogalvanised FT Hot-dip galvanised

Fastening clip with 3 holes for cross-wise connection of profile rails 41 x 41 mm.

Omega clamp





Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 O 4121 G	40	10	26,800	**1124631**
GMS 3 O 4121 FT	40	10	26,800	**1124671**

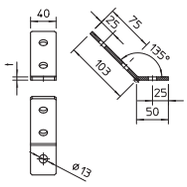
St Steel /100 pc.

G Electrogalvanised FT Hot-dip galvanised

Fastening clip with 3 holes for cross-wise connection of profile rails 41 x 21 mm.

Mounting bracket, 45° with 3 holes





Type	Version	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 VW 45 G	45° bracket	40	10	21,200	**1124627**
GMS 3 VW 45 FT	45° bracket	40	10	24,010	**1124667**

St Steel /100 pc.

G Electrogalvanised FT Hot-dip galvanised

Mounting bracket with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 45°.

Always indicate the item number when ordering.

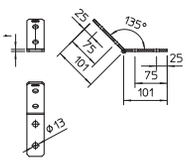
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Mounting bracket, 45° with 4 holes

Type	Version	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 4 VW 45 G	45° bracket	40	10	31,400	**1124629**
GMS 4 VW 45 FT	45° bracket	40	10	32,000	**1124669**

St Steel /100 pc.

G Electrogalvanised FT Hot-dip galvanised





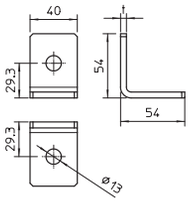
Mounting bracket with four holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 45°.

Mounting bracket, 90° with 2 holes

Type	Version	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 2 VW 90 G	90° bracket	60	10	16,170	**1124619**
GMS 2 VW 90 FT	90° bracket	60	10	14,000	**1124659**

St Steel /100 pc.

G Electrogalvanised FT Hot-dip galvanised





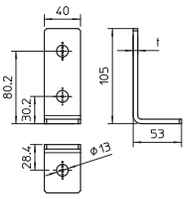
Installation profile with two holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

Mounting bracket, 90° with 3 holes

Type	Version	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 VW 90 G	90° bracket	40	10	23,550	**1124621**
GMS 3 VW 90 FT	90° bracket	40	10	25,910	**1124661**

St Steel /100 pc.

G Electrogalvanised FT Hot-dip galvanised





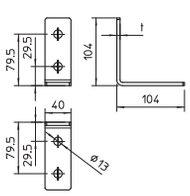
Installation profile with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

Mounting bracket, 90° with 4 holes

Type	Version	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 4 VW 90 G	90° bracket	30	10	32,660	**1124623**
GMS 4 VW 90 FT	90° bracket	30	10	32,000	**1124663**

St Steel /100 pc.

G Electrogalvanised FT Hot-dip galvanised





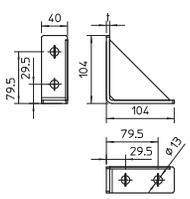
Installation profile with two holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

Triangular node

Type	Version	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 4 KD 90 G	90° bracket	10	10	42,000	**1124625**
GMS 4 KD 90 FT	90° bracket	10	10	48,000	**1124665**

St Steel /100 pc.

G Electrogalvanised FT Hot-dip galvanised





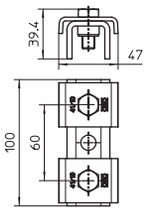
Reinforced mounting bracket with four holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

Always indicate the item number when ordering.

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Rail connector SV with 3 holes





Type	Version	Dimension W x H mm	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SVE 41 G	perforated	47x39,4	4	100	10	42,000	**1123124**
SVE 41 FT	perforated	47x39,4	4	100	10	42,000	**1123121**

St Steel /100 pc.

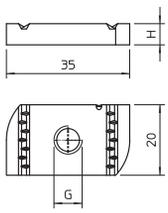
G Electrogalvanised FT Hot-dip galvanised

The rail connector is used to extend the mounting rail MS4141. The connection can be made simply and securely on the construction site or prefabricated in the workshop.
There is a guarantee that there is no weak point in the area of the rail coupling. The static values of the mounting rail apply here.

Scope of delivery:
Retaining plates, type 4141, and suitable hexagonal bolts included loosely.

Slide nut, 22 mm slot width, for MS4121 / 4141





Type	Thread	Dimension H mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
G22 M6 G	M6	6	300	50	2,700	**1146390**
G22 M8 G	M8	6	300	50	2,470	**1146392**
G22 M10 G	M10	8	300	50	3,200	**1146394**
G22 M12 G	M12	9.5	300	50	3,700	**1146396**

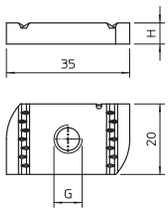
St Steel /100 pc.

G Electrogalvanised

Slide nut for profile rail MS4121 / 4141, without tensioning spring with toothing, fixing by 90° rotation.

Slide nut, 22 mm slot width, for MS4121 / 4141, V4A





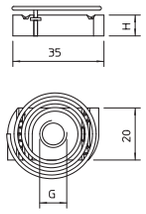
Type	Thread	Dimension H mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
G22 M6 V4A	M6	6	300	50	2,700	**1146401**
G22 M8 V4A	M8	6	300	50	2,470	**1146403**
G22 M10 V4A	M10	8	300	50	3,200	**1146406**
G22 M12 V4A	M12	9.5	300	50	3,700	**1146408**

V4A Stainless steel, grade 316 /100 pc.

Slide nut for profile rail MS4121 / 4141, without tensioning spring with toothing, fixing by 90° rotation.

Slide nut, 22 mm slot width, for MS4121 / 4141





Type	Thread	Dimension H mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMF22 M6 G	M6	6	300	50	4,300	**1146451**
GMF22 M8 G	M8	6	300	50	4,200	**1146455**
GMF22 M10 G	M10	8	200	50	4,100	**1146459**
GMF22 M12 G	M12	9.5	200	50	3,900	**1146463**

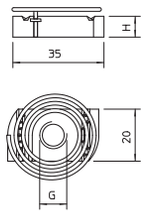
St Steel /100 pc.

G Electrogalvanised

Slide nut for profile rail MS4121 / MS4141, with tensioning spring and toothing, fixing by 90° rotation.

Slide nut, 22 mm slot width, for MS4121 / 4141, V4A





Type	Thread	Dimension H mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMF22 M6 V4A	M6	6	300	50	2,926	**1146430**
GMF22 M8 V4A	M8	6	300	50	2,867	**1146434**
GMF22 M10 V4A	M10	8	200	50	3,470	**1146438**
GMF22 M12 V4A	M12	9.5	200	50	4,110	**1146442**

V4A Stainless steel, grade 316 /100 pc.

Slide nut for profile rail MS4121 / 4141, with tensioning spring and toothing, fixing by 90° rotation.

Always indicate the item number when ordering.

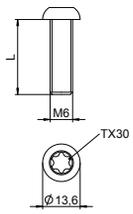
04 KTS Masterkatalog Länder / en / 25/10/2016 (LLExport_04366) / 25/10/2016

Flat-head screw with internal Torx

Type	Dimension mm	Dim. L mm	Head Ø mm	Screw system	Pack. pcs	Weight kg/100 pcs.	Item No.
7380T 6x20 G	M6x20	20	13.6	TX 30	100	0,570	**3164952**
7380T 6x35 G	M6x35	35	13.6	TX 30	100	0,910	**3164956**

St Steel /100 pc.

G Electrogalvanised



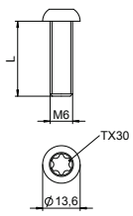


Flat head screw with Torx drive, according to ISO 7380-1, suitable for fastening cable routes on brackets as well as for the mounting of barrier strips. The rounded head shape provides optimum cable protection. The Torx drive offers optimum force transmission in the screw movement.

Flat-head screw with internal Torx, V2A

Type	Dimension mm	Dim. L mm	Head Ø mm	Screw system	Pack. pcs	Weight kg/100 pcs.	Item No.
7380T 6x20 V2A	M6 x 20	20	13.6	TX 30	100	0,580	**3164972**
7380T 6x35 V2A	M6 x 35	35	13.6	TX 30	100	0,910	**3164976**

V2A Stainless steel, grade 304 /100 pc.





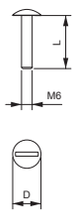
Flat head screw with Torx drive, according to ISO 7380-1, suitable for fastening cable routes on brackets as well as for the mounting of barrier strips. The rounded head shape provides optimum cable protection. The Torx drive offers optimum force transmission in the screw movement.

Pan head screw

Type	Dimension mm	Dim. L mm	Head Ø mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BS M6x30 G	M6x30	30	14	100	0,800	**1148898**

St Steel /100 pc.

G Electrogalvanised



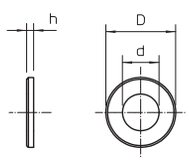


Washer

Type	Thread	Dim. d mm	Dimension D mm	Dim. h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
966 M6 G	M6	6.4	12	1.6	100	0,114	**3402061**

St Steel /100 pc.

G Electrogalvanised



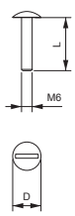


Washer according to DIN 125, shape A, for universal use.

Pan head screw

Type	Dimension mm	Dim. L mm	Head Ø mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BS M6x30 VA	M6 x 30	30	14	100	0,790	**1148896**

V2A Stainless steel, grade 304 /100 pc.

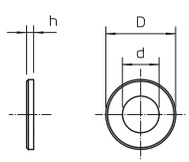




Washer, V2A

Type	Thread	Dim. d mm	Dimension D mm	Dim. h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
966 M6 VA	M6	6.4	12	1.6	100	0,114	**3402304**

V2A Stainless steel, grade 304 /100 pc.



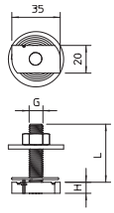


Washer according to DIN 125, shape A, for universal use.

Always indicate the item number when ordering.

Hammer-head bolt, for MS4121 / 4141





Type	Thread	Dim. L mm	Dimension H mm	Washer Ø mm	Pack. pcs	Weight kg/100 pcs.	Item No.
HKF22 M8x30 G	M8	30	6	40	25	9,100	**1148950**
HKF22 M8x50 G	M8	50	6	40	25	9,600	**1148955**
HKF22 M10x30 G	M10	30	8	40	25	10,300	**1148961**
HKF22 M10x50 G	M10	50	8	40	25	11,500	**1148966**
HKF22 M12x30 G	M12	30	9.5	40	25	11,800	**1148972**

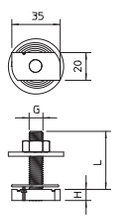
St Steel /100 pc.

G Electrogalvanised

Hammer-head bolt for profile rail MS4121 / 4141, with tensioning spring and toothing, fixing by 90° rotation

Hammer-head bolt, for MS4121 / 4141, V4A





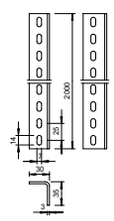
Type	Thread	Dim. L mm	Dimension H mm	Washer Ø mm	Pack. pcs	Weight kg/100 pcs.	Item No.
HKF22 M8x30 V4A	M8	30	6	40	25	7,288	**1148990**
HKF22 M8x50 V4A	M8	50	6	40	25	8,134	**1148992**
HKF22 M10x30 V4A	M10	30	8	40	25	9,191	**1148996**
HKF22 M10x50 V4A	M10	50	8	40	25	10,187	**1148998**
HKF22 M12x30 V4A	M12	30	9.5	40	25	10,567	**1149002**

V4A Stainless steel, grade 316 /100 pc.

V4A hammer-head bolt for profile rail MS4121 / 4141, with tensioning spring and toothing, fixing by 90° rotation

Angle profile





Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WP 30 35 2000 FT	2000	10	257,000	**6373100**
WP 30 35 5000 FT	5000	1	643,000	**6373103**

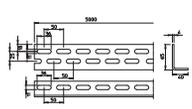
St Steel /pc.

FT Hot-dip galvanised

Angle profile, perforated on both sides, for creation of special support structures.

Angle profile





Type	Length mm	Pack. m	Weight kg/100 m	Item No.
WP 40 65 5000 FT	5000	5	250,000	**6373070**

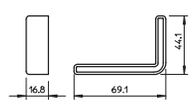
St Steel /m

FT Hot-dip galvanised

Angle profile, perforated on both sides, for creation of special support structures.

End cap





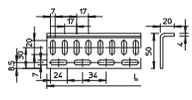
Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
WPK SR OR	Pastel orange	20	0,600	**6372881**
WPK SL OR	Pastel orange	20	0,600	**6372898**

PE Polyethylene /pc.

End cap to cover the ends of angle profile, type WE 40/65.

Angle profile





Type	Length mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
WESP 50 20 BK	3000	4	3	159,000	**7105665**

St Steel /m

BK Bright

Angle profile with double perforation row to create suspension and support constructions.

Always indicate the item number when ordering.

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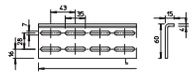
Angle profile

Type	Length mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
WESP 60 15 BK	3000	4	3	179,000	**7105967**

St Steel

BK Bright

/m





Angle profile with double straight perforation to create suspension and support constructions.

Slotted steel strap

Type	Dimension mm	Dimension b mm	Dim. d mm	Dimension e mm	Length mm	Pack. m	Weight kg/100 m	Item No.
5050 20X3 3M FT	20 x 3	20	6.5	40	3000	60	35,000	**1465767**
5050 25X3 3M FT	25 x 3	25	6.5	40	3000	60	47,000	**1465775**
5050 30X3 3M FT	30 x 3	30	6.5	40	3000	60	59,000	**1465791**
5050 30x3 3M FT	30 x 3	30	8.5	40	3000	60	73,000	**1466267**
5050 30X4 3M FT	30 x 4	30	8.5	60	3000	30	54,000	**1465805**
5050 40X4 3M FT	40 x 4	40	8.5	70	3000	30	101,000	**1465821**

St Steel

FT Hot-dip galvanised

price/100 m





Perforated slotted steel strap in strips.

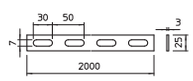
Construction and suspension profile

Type	Length mm	Version	Pack. m	Weight kg/100 m	Item No.
SLH 42 FT	2000	Perforated	2	51,500	**7103611**

St Steel

FT Hot-dip galvanised

/m





The rail profile is available in unpainted steel and in stainless steel on request.

Perforated rail profile of marine cable ladder, SL 42, for creation of suspension and support structures.

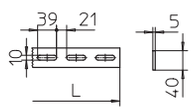
Construction and suspension profile

Type	Length mm	Version	Pack. m	Weight kg/100 m	Item No.
SLH 62 FT	3000	Perforated	3	136,000	**7103643**

St Steel

FT Hot-dip galvanised

/m





The rail profile is available in unpainted steel and in stainless steel on request.

Perforated side rail of marine cable ladder, SL 62, for creation of suspension and support structures.

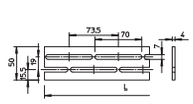
Construction and suspension profile

Type	Length mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
FESP L 50 4 BK	3000	4	15	117,000	**7104960**

St Steel

BK Bright

/m





Flat iron frame with double, offset longitudinal hole row for creation of suspended and support structures.

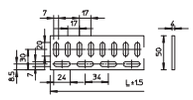
Construction and suspension profile

Type	Length mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
FESP Q 50 4 BK	3000	4	15	126,600	**7104669**

St Steel

BK Bright

/m



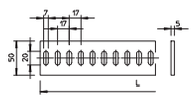


Flat iron profile with double, side-offset slot row to create suspended and support constructions.

Always indicate the item number when ordering.

Construction and suspension profile





Type	Length mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
FESP 50 5	3000	5	15	162,200	**7104367**

St Steel

BK Bright

/m

Flat iron profile with slots to create suspended and support constructions.

Always indicate the item number when ordering.

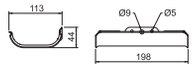
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Cable support bracket, single, for individual routing

Type	Side height mm	F in kN per trough kN	Pack. pcs	Weight kg/100 pcs.	Item No.
KTW 100 FT	44	0.35	1	48,000	**6006890**

St Steel /pc.

FT Hot-dip galvanised





According to DIN VDE 0298-300, a maximal support span of 0.8 m should not be exceeded.

Cable support brackets for quick and easy routing of cables in areas where common cable support systems cannot be installed due to lack of space. The cable support brackets possess a large load-bearing surface as well as rounded outer edges to protect the cables.

Cable support brackets

Type	Dim. L mm	Number of troughs	F in kN per trough kN	Pack. pcs	Weight kg/100 pcs.	Item No.
KTW 100 1 FT	140	1	0.5	1	6,100	**6006901**
KTW 100 2 FT	200	2	0.5	1	111,000	**6006902**
KTW 100 3 FT	300	3	0.5	1	168,000	**6006903**
KTW 100 4 FT	400	4	0.5	1	225,000	**6006904**
KTW 100 5 FT	500	5	0.5	1	361,000	**6006905**
KTW 100 6 FT	600	6	0.5	1	339,000	**6006906**
KTW 100 7 FT	700	7	0.5	1	395,000	**6006907**
KTW 100 8 FT	800	8	0.5	1	452,000	**6006908**
KTW 100 9 FT	900	9	0.5	1	465,000	**6006909**
KTW 100 10 FT	1000	10	0.5	1	565,000	**6006910**

St Steel /pc.

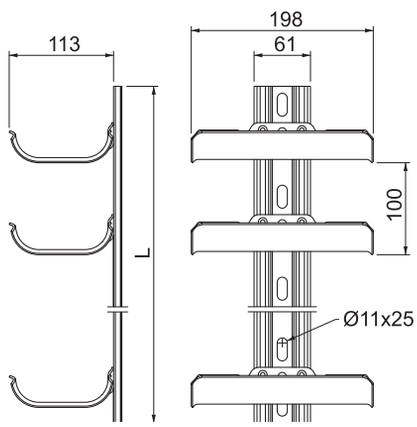
FT Hot-dip galvanised



According to DIN VDE 0298-300, a maximal support span of 0.8 m should not be exceeded.

Cable support brackets for quick and easy routing of cables in areas where common cable support systems cannot be installed due to lack of space. The cable support brackets possess a large load-bearing surface as well as rounded outer edges to protect the cables.

Dimensions

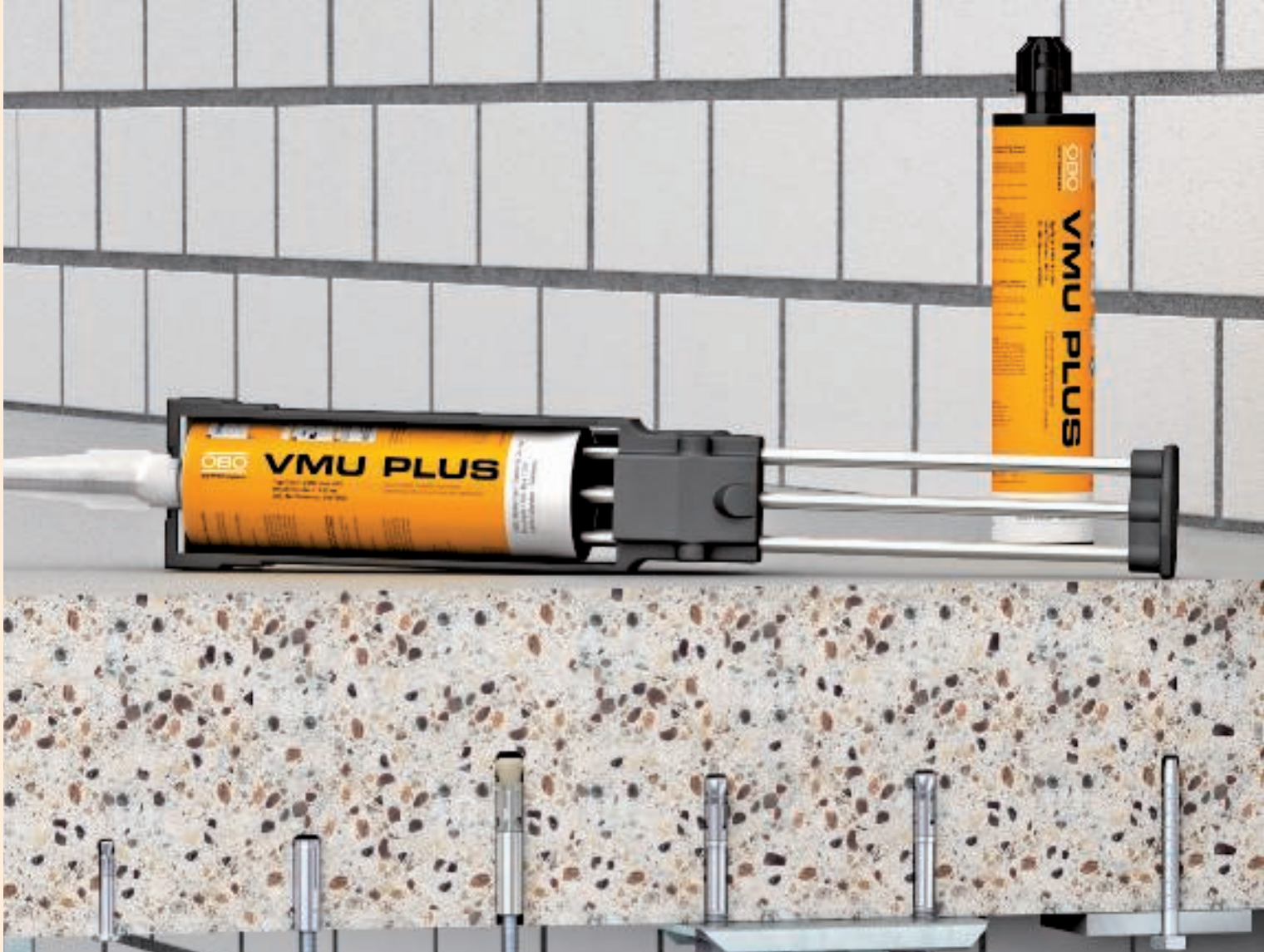


Load

Type	Levels	Total load	Number of anchors
KTW 100 1 FT	1	0.5 kN	1
KTW 100 2 FT	2	1.0 kN	1
KTW 100 3 FT	3	1.5 kN	1
KTW 100 4 FT	4	2.0 kN	2
KTW 100 5 FT	5	2.5 kN	2
KTW 100 6 FT	6	3.0 kN	2
KTW 100 7 FT	7	3.5 kN	3
KTW 100 8 FT	8	4.0 kN	3
KTW 100 9 FT	9	4.5 kN	3
KTW 100 10 FT	10	5.0 kN	4

The specified values are based on concrete of resistance grade C25/30. Fastening anchor type: BZ 10-100-120. Comply with the installation conditions of the DIBt approval (anchors).

Always indicate the item number when ordering.





Fastening systems

Always indicate the item number when ordering.

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Fastening systems



Screw and fastening systems 236



Slide nuts, Hammer-head bolts 241



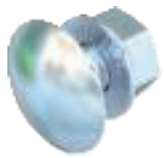
Anchor systems 245

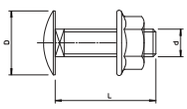


Earthing systems, surface refinement and edge protection 256

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Truss-head bolt with flange nut





Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRSB 6X12 VZ G	M 6 x 12	12	6	13.5	10	0,700	**6406133**
FRSB 6X12 G	M 6 x 12	12	6	13.5	100	0,796	**6406130**
FRSB 6X20 G	M 6 x 20	20	6	13.5	100	0,903	**6406181**
FRSB 6X12 VZ F	M 6 x 12	12	6	13.5	10	0,840	**6406125**
FRSB 6X12 F	M 6 x 12	12	6	13.5	100	0,990	**6406122**
FRSB 6X15 F	M 6 x 15	15	6	13.5	100	0,800	**6406157**
FRSB 6X20 F	M 6 x 20	20	6	13.5	100	1,000	**6406203**
FRSB 6X30 F	M6 x 30	30	6	13.5	100	1,200	**6406907**

St Steel /100 pc.

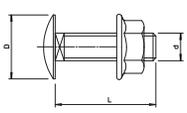
F Hot-dip galvanised G Electrogalvanised

For universal fastening of construction components. Permitted use of the article only in dry atmospheres.

Hot galvanised truss-head bolt with square neck including electrogalvanised flange nut.

Truss-head screw with flange nut, V2A



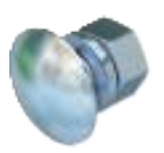


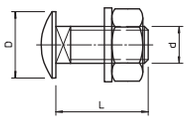
Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Grade	Pack. pcs	Weight kg/100 pcs.	Item No.
FRSB 6x12 A2	M 6 x 12	12	6	13.5	A2-50	100	0,830	**6406138**
FRSB 6x16 A2	M 6 x 16	16	6	13.5	A2-50	100	0,800	**6406189**
FRSB 6x20 A2	M 6 x 20	20	6	13.5	A2-50	100	0,960	**6406205**

V2A Stainless steel, A2 /100 pc.

Truss-head bolt with square neck including flange nut.

Truss-head bolt with nut and washer





Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRS 8X16 F 8.8	M8 x 16	16	8	20	50	2,200	**6406963**
FRS 8X16 F 5.6	M 8 x 16	16	8	20	50	2,000	**6406939**
FRS 8X20 F	M 8 x 20	20	8	20	50	2,100	**6406971**
FRS 8X25 F	M8 x 25	25	8	20	50	2,300	**6406998**
FRS 8X35 F	M 8 x 35	35	8	20	50	2,700	**6407048**
FRS 10X20 F	M 10 x 20	20	10	24	50	4,100	**6407471**
FRS 10X25 F	M 10 x 25	25	10	24	50	4,500	**6407528**
FRS 10X25 F 8.8	M10 x 25	25	10	24	50	4,500	**6407560**
FRS 10X25 F TPS	M10 x 25	25	10	18	50	4,300	**6407536**
FRS 10X30 F	M 10 x 30	30	10	24	50	5,000	**6407579**
FRS 12X25 F	M12 x 25	25	12	30	10	6,400	**6406254**
FRS 12X30 F	M 12 x 30	30	12	30	20	6,800	**6406270**

St Steel /100 pc.

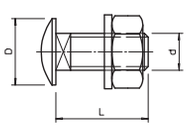
F Hot-dip galvanised

The truss-head bolt can be used in combination with hot-dip and double-dip galvanised articles.

Truss-head bolt with square neck. With washer and hexagonal nut.

Truss-head screw with washer and nut, V2A





Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Grade	Pack. pcs	Weight kg/100 pcs.	Item No.
FRS 8x16 A2	M 8 x 16	16	8	20	A2-70	50	2,200	**6406696**
FRS 8x20 A2	M 8 x 20	20	8	20	A2-70	50	2,100	**6406807**
FRS 8x25 A2	M 8 x 25	25	8	20	A2-70	50	2,300	**6406815**
FRS 8x35 A2	M 8 x 35	35	8	20	A2-70	50	2,700	**6406823**

V2A Stainless steel, A2 /100 pc.

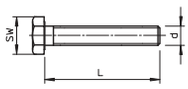
Truss-head bolt with square neck including washer and hexagonal nut.

Always indicate the item number when ordering.

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Hexagonal bolt

Type	Thread	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
342 M8X20 G	M8	M 8 x 20	20	8	13	100	1,230	**3158209**
342 M8X25 G	M8	M8 x 25	25	8	13	100	1,390	**3158241**
342 M8X30 G	M8	M 8x30	30	8	13	100	1,550	**3158306**
342 M10X20 G	M10	M 10 x 20	20	10	17	100	2,320	**3160203**
342 M10X30 G	M10	M 10 x 30	30	10	17	100	2,820	**3160300**
342 M10X40 G	M10	M 10 x 40	40	10	17	50	3,240	**3160408**
342 M10X50 G	M10	M 10 x 50	50	10	17	50	3,820	**3160505**
342 M10X60 G	M10	M 10 x 60	60	10	17	50	4,330	**3160602**
342 M12X30 G	M12	M 12x30	30	12	19	50	4,020	**3162303**
342 M12X40 G	M12	M 12x40	40	12	19	50	4,740	**3162400**
342 M12X50 G	M12	M 12x50	50	12	19	50	5,450	**3162508**





St Steel /100 pc.

G Electrogalvanised

Hexagonal bolt to ISO 4017 with metric thread

Hexagonal bolt with nut and washer

Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 6X12 F	M 6 x 10	12	6	10	100	0,810	**3156494**
SKS 6X20 F	M 6 x 20	20	6	10	100	0,900	**3156516**
SKS 6X30 F	M 6 x 30	30	6	10	100	1,100	**3156524**





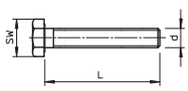
St Steel /100 pc.

F Hot-dip galvanised

Hexagonal bolt for universal fixing of structure components.

Hexagonal bolt with nut and washer

Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 8X16 F	M 8 x 16	16	8	13	50	1,900	**3158624**
SKS 8X20 F	M 8 x 20	20	8	13	50	1,500	**3158632**
SKS 8X30 F	M 8 x 30	30	8	13	50	2,300	**3158640**





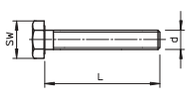
St Steel /100 pc.

F Hot-dip galvanised

Hexagonal bolt for universal fixing of structure components.

Hexagonal bolt with nut and washer

Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 10X25 F	M 10 x 25	25	10	17	50	4,200	**3160734**
SKS 10X30 F	M 10 x 30	30	10	17	50	4,400	**3160742**
SKS 10X40 F	M 10 x 40	40	10	17	50	4,900	**3160750**
SKS 10X60 F	M10 x 60	60	10	17	20	6,000	**6408516**
SKS 10X80 F	M10 x 80	80	10	17	20	7,700	**6418250**
SKS 10X90 F	M10 x 90	90	10	17	20	7,800	**6418252**
SKS 10X120 F	M 10 x 120	120	10	17	20	13,500	**3160793**





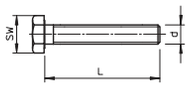
St Steel /100 pc.

F Hot-dip galvanised

Hexagonal bolt for universal fixing of structure components.

Hexagonal bolt with nut and washer

Type	Dimension mm	Dim. d mm	Dim. L mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 12X30 F	M 12 x 30	12	30	19	20	7,200	**3163091**
SKS 12X40 F	M 12 x 40	12	40	19	25	7,800	**3163113**
SKS 12X60 F	M 12 x 60	12	60	19	25	9,000	**3163156**





St Steel /100 pc.

F Hot-dip galvanised

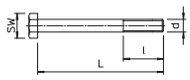
Hexagonal bolt for universal fixing of structure components.

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Always indicate the item number when ordering.

Hexagonal bolt with nut and washer





Type	Dimension mm	Dim. L mm	Dim. l mm	Dim. d mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 12X80 F	M12 x 80	80	30	12	19	20	11,800	**6418287**
SKS 12X100 F	M12 x 100	100	30	12	19	20	12,600	**6418295**
SKS 12X110 F	M12 x 110	110	30	12	19	20	14,500	**6418317**
SKS 12X130 F	M12 x 130	130	36	12	19	20	15,500	**6408478**

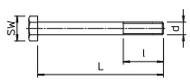
St Steel /100 pc.

F Hot-dip galvanised

Hexagonal bolt with hexagonal nut, washer and tooth lock washer.

Hexagonal bolt with nut and washer, V2A





Type	Dimension mm	Dim. L mm	Dim. l mm	Dim. d mm	SW mm	Grade	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 12x80 A2	M12 x 80	80	30	12	19	A2-70	20	11,800	**6418279**
SKS 12x100 A2	M12 x 100	100	30	12	19	A2-70	20	12,000	**6418368**
SKS 12x110 A2	M12 x 110	110	30	12	19	A2-70	20	14,500	**6418376**

V2A Stainless steel, A2 /100 pc.

Hexagonal bolt for universal fixing of structure components.

Screw-locking adhesive



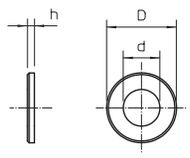
Type	Contents ml	Pack. pcs	Weight kg/100 pcs.	Item No.
Loctite 243	50	1	7,800	**2362940**

/pc.

Medium strength bolt lock, suitable for all metal thread connections. (e.g. stainless steel, aluminium, galvanised surfaces). Prevents loosening through vibrations. Connections can be removed using hand tool for maintenance.

Washer





Type	Thread	Dim. d mm	Dimension D mm	Dim. h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
966 M6 G	M6	6.4	12	1.6	100	0,114	**3402061**
966 M8 G	M8	8.4	16	1.6	100	0,214	**3402088**
966 M10 G	M10	10.5	20	2	100	0,408	**3402096**
966 M12 G	M12	13	24	2.5	100	0,627	**3402126**

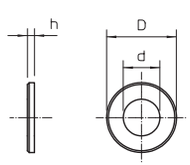
St Steel /100 pc.

G Electrogalvanised

Washer according to DIN 125, shape A, for universal use.

Washer





Type	Thread	Dim. d mm	Dimension D mm	Dim. h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
966 M6 F	M6	6.6	12	1.6	100	0,114	**3402444**
966 M8 F	M8	9	16	1.6	100	0,214	**3402452**
966 M10 F	M10	11	20	2	100	0,408	**3402460**
966 M12 F	M12	13.5	24	2.5	100	0,627	**3402479**

St Steel /100 pc.

F Hot-dip galvanised

Washer for universal use.

Always indicate the item number when ordering.

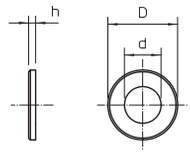
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Washer, V2A

Type	Thread	Dim. d mm	Dimension D mm	Dim. h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
966 M6 VA	M6	6.4	12	1.6	100	0,114	**3402304**
966 M8 VA	M8	8.4	16	1.6	100	0,214	**3402312**
966 M10 VA	M10	10.5	20	2	100	0,408	**3402320**
966 M12 VA	M12	13	24	2.5	100	0,627	**3402339**

V2A Stainless steel, grade 304 /100 pc.

Washer according to DIN 125, shape A, for universal use.





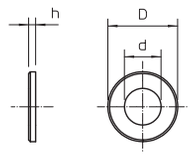
Washer

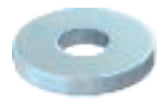
Type	Thread	Dim. d mm	Dimension D mm	Dim. h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
967 M6 G	M6	6.5	28	2.5	100	1,150	**3402207**
967 M8 G	M8	8.5	28	2.5	100	1,100	**3402215**
967 M10 G	M10	11	28	2.5	100	1,020	**3402223**

St Steel /100 pc.

G Electrogalvanised

Washer of large outer diameter for universal use.





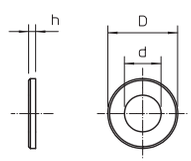
Large washer

Type	Thread	Dim. d mm	Dimension D mm	Dim. h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN440 7 F	M6	6.6	22	2	100	0,550	**6408702**
DIN440 9 F	M8	9	28	3	100	1,344	**6408710**
DIN440 11 F	M10	11	34	3	100	1,985	**6408729**
DIN440 14 F	M12	13.5	44	4	50	4,736	**6408737**

St Steel /100 pc.

F Hot-dip galvanised

Washer of particularly large outer diameter.





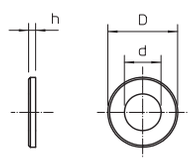
Large washer

Type	Thread	Dim. d mm	Dimension D mm	Dim. h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
964 M4 G15 G	M4	4.3	15	1.2	100	0,156	**3403025**
964 M5 G20 G	M5	5.3	20	1.2	100	0,274	**3403041**
964 M6 G25 G	M6	6.4	25	1.2	100	0,415	**3403084**
964 M6 G30 G	M6	6.4	30	1.3	100	0,675	**3403092**
964 M6 G20 G	M6	6.4	20	1.5	100	0,262	**3403076**
964 M8 G25 G	M8	8.4	25	1.2	100	0,370	**3403130**
964 M8 G20 G	M8	8.4	20	1.5	100	0,240	**3403122**
964 M10 G30 G	M10	10.5	30	1.5	100	0,592	**3403165**

St Steel /100 pc.

G Electrogalvanised

Washer of particularly large outer diameter.



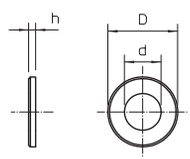


Large washer, V2A

Type	Thread	Dim. d mm	Dimension D mm	Dim. h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
964 M8 G20 V2A	M8	8.4	20	1.5	100	0,240	**3403125**
964 M8 G25 V2A	M8	8.4	25	1.2	100	0,370	**3403135**
964 M8 G40 V2A	M8	8.5	40	1.5	100	0,370	**3403145**
964 M10 G30 V2A	M10	10.5	30	1.5	100	0,592	**3403155**
964 M10 G40 V2A	M10	10.5	40	1.5	100	0,592	**3403175**

V2A Stainless steel, grade 304 /100 pc.

Washer of particularly large outer diameter. In the case of connections on the MS 41 mounting rail, we recommend the external diameter of 40 mm.



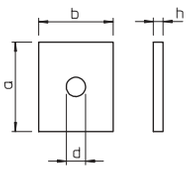


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Always indicate the item number when ordering.

Counter plate





Type	Dimension a mm	Dimension b mm	Dim. d mm	Dim. h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
K 60 FT	60	50	13	6.5	10	15,000	**6348408**
K 70 FT	70	70	17	6.5	10	24,000	**6348440**

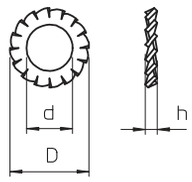
St Steel /pc.

FT Hot-dip galvanised

Counter plate to increase the contact surface for pass-through installation of brackets and supports.

Serrated washer





Type	Thread	Dim. d mm	Dimension D mm	Dim. h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 6798 A M6 G	M6	6.4	11	2.1	100	0,036	**3404064**
DIN 6798 A M8 G	M8	8.4	15	2.4	100	0,080	**3404080**
DIN 6798 A M10 G	M10	10.5	18	2.7	100	0,125	**3404102**
DIN 6798 A M12 G	M12	13	20.5	3	100	0,160	**3404129**

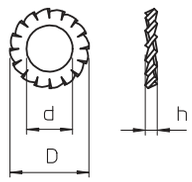
St Steel /100 pc.

G Electrogalvanised

Serrated washer to DIN 6798, shape A.

Serrated washer, V2A





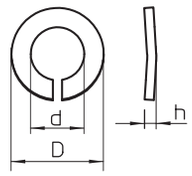
Type	Thread	Dim. d mm	Dimension D mm	Dim. h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 6798 M6 VA	M6	6.4	11	2.1	100	0,040	**3404331**
DIN 6798 M8 VA	M8	8.4	15	2.4	100	0,080	**3404358**

V2A Stainless steel, grade 304 V2A Stainless steel, grade 301 /100 pc.

Serrated washer to DIN 6798, shape A.

Lock washer





Type	Thread	Dim. d mm	Dimension D mm	Dim. h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 128 A M6 G	M6	6.3	11.8	2.1	100	0,070	**3405060**
DIN 128 A M8 G	M8	8.3	14.8	2.6	100	0,130	**3405087**
DIN 128 A M10 G	M10	10.5	18.1	3	100	0,210	**3405109**
DIN 128 A M12 G	M12	12.5	21.1	3.5	100	0,320	**3405125**

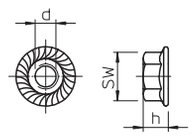
St Steel /100 pc.

G Electrogalvanised

Lock washer according to DIN 128, shape A.

Flange nut





Type	Dim. d mm	Dim. h mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KM M6 G	6	6	10	100	0,315	**6408958**
KM M6 F	6	6	10	100	0,315	**6408962**

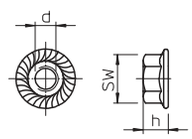
St Steel /100 pc.

F Hot-dip galvanised G Electrogalvanised

Flange nut with pressed washer in accordance with EN 1661.

Flange nut, A2





Type	Dim. d mm	Dim. h mm	SW mm	Grade	Pack. pcs	Weight kg/100 pcs.	Item No.
KM M6 A2	6	6	10	A2-70	100	0,315	**6408966**

V2A Stainless steel, A2 /100 pc.

Flange nut with pressed washer in accordance with EN 1661.

Always indicate the item number when ordering.

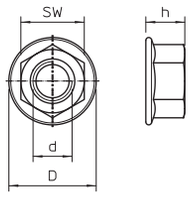
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Flange nut DIN 6923, V2A

Type	Thread	SW mm	Dim. h mm	Dim. d mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 6923 M8 VA	M8	13	8	17.9	100	0,800	**3156120**
DIN 6923 M10 VA	M10	17	10	21.8	50	1,320	**3156122**
DIN 6923 M12 VA	M12	19	12	26	50	2,100	**3156126**

V2A Stainless steel, grade 304 /100 pc.

Flange nut with pressed washer in accordance with EN 1661.





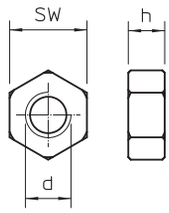
Hexagonal nut

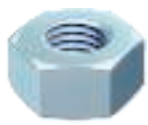
Type	Thread	SW mm	Dim. h mm	Dim. d mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 934 M6 G	M6	10	5.2	6	100	0,225	**3400069**
DIN 934 M8 G	M8	13	6.8	8	100	0,474	**3400085**
DIN 934 M10 G	M10	17	8.4	10	100	1,084	**3400107**
DIN 934 M12 G	M12	19	10.8	12	100	1,730	**3400123**

St Steel /100 pc.

G Electrogalvanised

Hexagonal nut according to DIN 934 with metric thread. Resistance class 8.8.





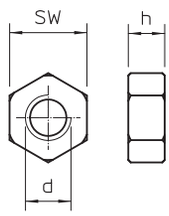
Hexagonal nut

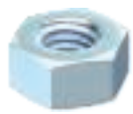
Type	Thread	SW mm	Dim. h mm	Dim. d mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN934 M6 F	M6	10	5.2	6	100	0,250	**3400344**
DIN934 M8 F	M8	13	6.8	8	100	0,520	**3400352**
DIN934 M10 F	M10	17	8.4	10	100	1,160	**3400360**
DIN934 M12 F	M12	19	10.8	12	100	1,730	**3400379**

St Steel /100 pc.

F Hot-dip galvanised

Hexagonal nut to DIN 934 with metric thread.



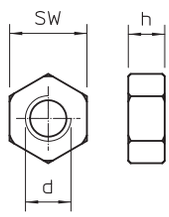


Hexagonal nut, V2A

Type	Thread	SW mm	Dim. h mm	Dim. d mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 934 M6 VA	M6	10	5.2	6	100	0,250	**3397068**
DIN 934 M8 VA	M8	13	6.8	8	100	0,520	**3397084**
DIN 934 M10 VA	M10	17	8.4	10	100	1,160	**3397106**
DIN 934 M12 VA	M12	19	10.8	12	100	1,730	**3397114**

V2A Stainless steel, grade 304 /100 pc.

Hexagonal nut to DIN 934 with metric thread.





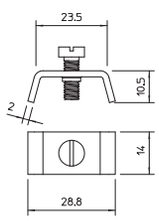
Slide nut

Type	Thread	Version	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
T5012 M5x13 G	M5	With bolt M5 x 13	1000	100	1,151	**1140019**
T5012 O.S. M5 G	M5	No screw	1000	100	0,903	**1140213**

St Steel /100 pc.

G Electrogalvanised

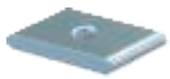
Slide nut for profile rails with a slot width of 16–17 mm.

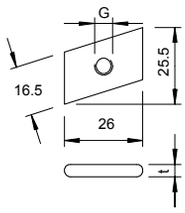




Always indicate the item number when ordering.

Slide nut





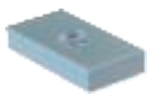
Type	Dimension G mm	Dimension t mm	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
5019 M6 OS G	6	4	No screw	100	1,150	**1144103**
5019 M8 OS G	8	5	No screw	100	1,450	**1144111**
5019 M10 OS G	10	6	No screw	100	1,650	**1144138**

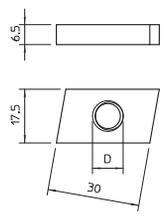
St Steel /100 pc.

G Electrogalvanised

Slide nut for profile rails with a slot width of 16–17 mm.

Slide nut





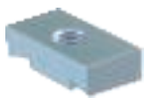
Type	Dimension D mm	Recommended load capacity kN	Pack. pcs	Weight kg/100 pcs.	Item No.
GMH18 M6 G	6	1.94	50	2,400	**1146505**
GMH18 M8 G	8	3.57	50	2,300	**1146513**
GMH18 M10 G	10	5.7	50	2,300	**1146521**

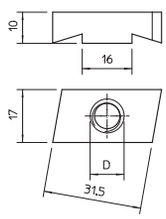
St Steel /100 pc.

G Electrogalvanised

Slide nut for profile rails with a slot width of 18 mm.

Slide nut





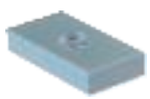
Type	Dimension D mm	Recommended load capacity kN	Pack. pcs	Weight kg/100 pcs.	Item No.
HGMH18 M6 G	6	1.94	50	3,600	**1146718**
HGMH18 M8 G	8	3.57	50	2,300	**1146726**
HGMH18 M10 G	10	5.7	50	2,300	**1146734**
HGMH18 M12 G	12	8.32	50	2,000	**1146742**

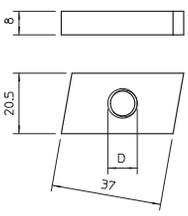
St Steel /100 pc.

G Electrogalvanised

Slide nut for profile rails with a slot width of 18 mm.

Slide nut





Type	Dimension D mm	Recommended load capacity kN	Pack. pcs	Weight kg/100 pcs.	Item No.
GMH22 M6 G	6	1.94	50	4,500	**1146602**
GMH22 M8 G	8	3.57	50	4,300	**1146610**
GMH22 M10 G	10	5.7	50	4,300	**1146629**
GMH22 M12 G	12	8.32	50	4,200	**1146637**

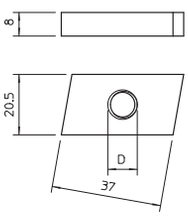
St Steel /100 pc.

G Electrogalvanised

Slide nut for profile rails with a slot width of 22 mm. Cannot be used for mounting rail MS4121 and MS4141.

Slide nut, V4A





Type	Dimension D mm	Recommended load capacity kN	Pack. pcs	Weight kg/100 pcs.	Item No.
GMH22 M6 VA	6	1.94	50	4,500	**1146646**
GMH22 M8 VA	8	3.57	50	4,300	**1146648**
GMH22 M10 VA	10	5.7	50	4,300	**1146650**
GMH22 M12 VA	12	8.32	50	4,200	**1146652**

V4A Stainless steel, grade 316 /100 pc.

Slide nut for profile rails with a slot width of 22 mm. Cannot be used for mounting rail MS4121 and MS4141.

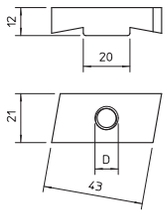
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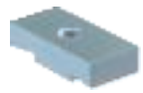
Slide nut

Type	Dimension D mm	Recommended load capacity kN	Pack. pcs	Weight kg/100 pcs.	Item No.
HGMH22 M8 G	8	3.57	50	4,300	**1146807**
HGMH22 M10 G	10	5.7	50	4,200	**1146815**
HGMH22 M12 G	12	8.32	50	4,100	**1146823**

St Steel /100 pc.

G Electrogalvanised





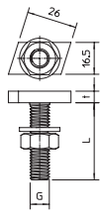
Slide nut for profile rails with a slot width of 22 mm. Cannot be used for mounting rail MS4121 and MS4141.

Hammer-head bolt

Type	Thread	Dim. L mm	Dimension D mm	Dimension t mm	Washer Ø mm	Pack. pcs	Weight kg/100 pcs.	Item No.
5022 M12x30 G	M12	30	12	6	24	25	6,130	**1151622**
5022 M12x40 G	M12	40	12	6	24	25	6,900	**1151649**
5022 M6X25 F	M6	25	6	5	12	50	1,960	**1151010**
5022 M6X30 F	M6	30	6	5	12	50	1,992	**1151029**
5022 M8X25 F	M8	25	8	5	16	50	2,120	**1151215**
5022 M8X30 F	M8	30	8	5	16	50	2,990	**1151223**
5022 M10x25 F	M10	25	10	6	20	50	4,360	**1151401**
5022 M10x30 F	M10	30	10	6	20	50	4,580	**1151428**
5022 M10x40 F	M10	40	10	6	20	50	5,070	**1151444**

St Steel /100 pc.

F Hot-dip galvanised G Electrogalvanised





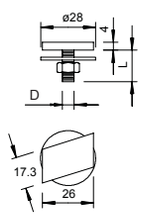
Hammer-head bolt with washer and nut for profile rails with slot width 16–17 mm.

Hammer-head bolt

Type	Thread	Dim. L mm	Dimension D mm	Washer Ø mm	Pack. pcs	Weight kg/100 pcs.	Item No.
5026 M6X20 G	M6	20	6	28	50	2,870	**1151703**
5026 M8X25 G	M8	25	8	28	50	3,320	**1151711**

St Steel /100 pc.

G Electrogalvanised





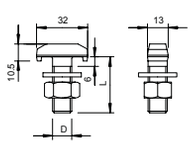
Hammer-head bolt with washer and nut for profile rails with slot width 16–17 mm.

Hammer-head bolt

Type	Thread	Dim. L mm	Dimension D mm	Washer Ø mm	Pack. pcs	Weight kg/100 pcs.	Item No.
5023 M10x30 G	M10	30	10	20	50	4,130	**1153412**
5023 M10x35 G	M10	35	10	20	50	4,690	**1153420**
5023 M10x40 G	M10	40	10	20	25	4,970	**1153439**
5023 M12x30 G	M12	30	12	24	25	6,450	**1153617**
5023 M12x35 G	M12	35	12	24	25	6,800	**1153625**
5023 M12x40 G	M12	40	12	24	25	7,200	**1153633**
5023 M12x50 G	M12	50	12	24	25	7,840	**1153641**

St Steel /100 pc.

G Electrogalvanised





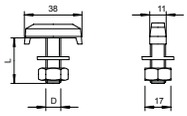
Hammer-head bolt with washer and nut for profile rails with slot width 18 mm.

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Always indicate the item number when ordering.

Hammer-head bolt





Type	Thread	Dim. L mm	Dimension D mm	Washer Ø mm	Pack. pcs	Weight kg/100 pcs.	Item No.
5024 M10x30 G	M10	30	10	20	50	5,540	**1154419**
5024 M10x35 G	M10	35	10	20	50	5,710	**1154427**
5024 M10x40 G	M10	40	10	20	25	5,980	**1154435**
5024 M12x30 G	M12	30	12	24	25	7,610	**1154605**
5024 M12x35 G	M12	35	12	24	25	7,944	**1154613**
5024 M12x40 G	M12	40	12	24	25	8,160	**1154621**
5024 M12x50 G	M12	50	12	24	25	8,836	**1154648**

St Steel /100 pc.

G Electrogalvanised

Hook-head bolt with washer and nut for profile rails with slot width 22 mm. Cannot be used for mounting rail MS4121 and MS4141.

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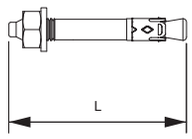
Always indicate the item number when ordering.

Nail anchor N with thread

Type	Thread	Bore hole Ø mm	Bore hole depth mm	Clamping range mm	Dim. L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
N 6-5-10/49	M6	6	40	5 - 10	49	100	1,160	**3498396**

St Steel /100 pc.

G Electrogalvanised





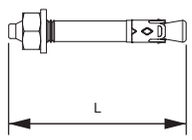
European technical approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.

The nail anchor N can be used for multiple fastenings of non-load-bearing systems and in cracked and non-cracked concrete, thereby combining the benefits of a wedge anchor with an even easier mounting.
The nail anchor only needs to be hammered into the drill hole. It is not necessary to apply torque subsequently. When the load occurs, the nail anchor spreads itself and bolts itself in the drill hole.

Nail anchor N with thread, A4

Type	Thread	Bore hole Ø mm	Bore hole depth mm	Fixture thickness mm	Dim. L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
N 6-5/49 A4	M6	6	40	5	49	50	1,200	**3498399**

V4A Stainless steel, A4 /100 pc.





European technical approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.

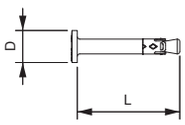
The nail anchor N can be used for multiple fastenings of non-load-bearing systems, indoors and outdoors, in cracked and non-cracked concrete, thereby combining the benefits of a bolt tie with an even easier mounting. The nail anchor only needs to be hammered into the drill hole. It is not necessary to apply torque subsequently. When the load occurs, the nail anchor spreads itself and bolts itself in the drill hole.

Nail anchor N-K with nail head

Type	Bore hole Ø mm	Bore hole depth mm	Clamping range mm	Dim. L mm	Dimension D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
N-K 6-5-10/44	6	40	5 - 10	44	13	100	1,135	**3498390**

St Steel /100 pc.

G Electrogalvanised





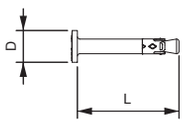
European technical approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.

The nail anchor N-K can be used for multiple fastenings of non-load-bearing systems and in cracked and non-cracked concrete, thereby combining the benefits of a bolt tie with an even easier mounting. The nail anchor only needs to be hammered into the drill hole. When the load occurs, the nail anchor spreads itself and bolts itself in the drill hole.

Nail anchor N-K with nail head, A4

Type	Bore hole Ø mm	Bore hole depth mm	Fixture thickness mm	Dim. L mm	Dimension D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
N-K 6-5/44 A4	6	40	5	44	13	50	1,140	**3498393**

V4A Stainless steel, A4 /100 pc.





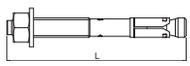
European technical approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.

The nail anchor N can be used for multiple fastenings of non-load-bearing systems, indoors and outdoors, in cracked and non-cracked concrete, thereby combining the benefits of a bolt tie with an even easier mounting. The nail anchor only needs to be hammered into the drill hole. When the load occurs, the nail anchor spreads itself and bolts itself in the drill hole.

Always indicate the item number when ordering.

Wedge anchor BZ





Type	Thread	Dim. L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BZ10-100-120/180	M10	180	25	10,320	**3498342**
BZ 12-15-35/110	M12	110	25	10,320	**3498350**
BZ 16-15-35/135	M16	135	20	21,600	**3498360**

St Steel /100 pc.

G Electrogalvanised

European technical approval ETA-99/0010, including characteristic values under fire exposure to fire resistance R 120.
Proof of suitability in the case of seismic impacts, categories C1 and C2.
Shock approval by the Federal Office for Civil Protection in Bern, Switzerland.

Wedge anchor BZ for the anchoring of medium-duty to heavy-duty loads, both in cracked and non-cracked concrete. It combines high approved loads with small edge distances and axial spacings.

Load

Standard anchoring depth

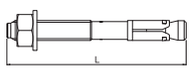
Loads and characteristic values		M8	M 10-100/180	M 12-15/110	M 16-15/135
Standard anchoring depth	mm	-	60	70	85
Drill hole Ø	mm	-	10	12	16
Drill hole depth	mm	-	75	90	110
Clamping strength	mm	-	100	15	15
Approx. load area, tension zone	KN	-	4.3	7.6	11.9

Reduced anchoring depth

Loads and characteristic values		M8	M 10-120/180	M 12-35/110	M 16-35/135
Reduced anchoring depth	mm	-	40	50	65
Drill hole Ø	mm	-	10	12	16
Drill hole depth	mm	-	55	70	90
Clamping strength	mm	-	120	35	35
Approx. load area, tension zone	KN	-	3.6	6.1	9.0

Wedge anchor BZ, A4





Type	Thread	Dim. L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BZ12-15-35/110A4	M12	110	25	10,440	**3498352**

V4A Stainless steel, A4 /100 pc.

European technical approval ETA-99/0010, including characteristic values under fire exposure to fire resistance R 120.
Proof of suitability in the case of seismic impacts, categories C1 and C2.
Shock approval by the Federal Office for Civil Protection in Bern, Switzerland.

Wedge anchor BZ for the anchoring of medium-duty to heavy-duty loads, indoors and outdoors, both in cracked and non-cracked concrete. It combines high approved loads with small edge distances and axial spacings.

Load

Standard anchoring depth

Loads and characteristic values		M8	M10	M 12-15/110	M16
Standard anchoring depth	mm	-	-	70	-
Drill hole Ø	mm	-	-	12	-
Drill hole depth	mm	-	-	90	-
Clamping strength	mm	-	-	15	-
Approx. load area, tension zone	KN	-	-	7.6	-

Reduced anchoring depth

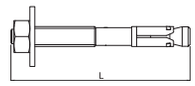
Loads and characteristic values		M8	M10	M 12-35/110	M16
Reduced anchoring depth	mm	-	-	50	-
Drill hole Ø	mm	-	-	12	-
Drill hole depth	mm	-	-	70	-
Clamping strength	mm	-	-	35	-
Approx. load area, tension zone	KN	-	-	6.1	-

Wedge anchor BZ-U

Type	Thread	Dim. L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BZ-U 8-10-21/75	M8	75	50	3,460	**3498320**
BZ-U 8-30-41/95	M8	95	50	4,010	**3498326**
BZ-U 10-10-30/90	M10	90	50	6,720	**3498334**
BZ-U10-30-50/110	M10	110	25	7,900	**3498340**

St Steel /100 pc.

G Electrogalvanised





European technical approval ETA-99/0010, including characteristic values under fire exposure to fire resistance R 120.
Proof of suitability in the case of seismic impacts, categories C1 and C2.
Shock approval by the Federal Office for Civil Protection in Bern, Switzerland.

Wedge anchor BZ for the anchoring of medium-duty to heavy-duty loads, both in cracked and non-cracked concrete. It combines high approved loads with small edge distances and axial spacings.

Load

Standard anchoring depth

Loads and characteristic values		M 8-10/75	M 8-30/75	M 10-10/90	M 10-30/110
Standard anchoring depth	mm	46	46	60	60
Drill hole Ø	mm	8	8	10	10
Drill hole depth	mm	60	60	75	75
Clamping strength	mm	10	30	10	30
Approx. load area, tension zone	KN	2.4	2.4	4.3	4.3

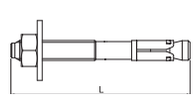
Reduced anchoring depth

Loads and characteristic values		M 8-21/75	M 8-41/95	M 10-30/90	M 10-50/110
Reduced anchoring depth	mm	35	35	40	40
Drill hole Ø	mm	8	8	10	10
Drill hole depth	mm	49	49	55	55
Clamping strength	mm	21	41	30	50
Approx. load area, tension zone	KN	2.4	2.4	3.6	3.6

Wedge anchor BZ-U, A4

Type	Thread	Dim. L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BZ-U8-10-21/75A4	M8	75	50	3,460	**3498322**
BZ-U8-30-41/95A4	M8	95	50	4,090	**3498328**
BZU10-10-30/90A4	M10	90	50	6,740	**3498336**

V4A Stainless steel, A4 /100 pc.





European technical approval ETA-99/0010, including characteristic values under fire exposure to fire resistance R 120.
Proof of suitability in the case of seismic impacts, categories C1 and C2.
Shock approval by the Federal Office for Civil Protection in Bern, Switzerland.

Wedge anchor BZ for the anchoring of medium-duty to heavy-duty loads, indoors and outdoors, both in cracked and non-cracked concrete. It combines high approved loads with small edge distances and axial spacings.

Load

Standard anchoring depth

Loads and characteristic values		M 8-10/75	M 8-30/95	M 10-10/90	M10
Standard anchoring depth	mm	46	46	60	-
Drill hole Ø	mm	8	8	10	-
Drill hole depth	mm	60	60	75	-
Clamping strength	mm	10	30	10	-
Approx. load area, tension zone	KN	2.4	2.4	4.3	-

Reduced anchoring depth

Loads and characteristic values		M 8-21/75	M 8-41/95	M 10-30/90	M10
Reduced anchoring depth	mm	35	35	40	-
Drill hole Ø	mm	8	8	10	-
Drill hole depth	mm	49	49	55	-
Clamping strength	mm	21	41	30	-
Approx. load area, tension zone	KN	2.4	2.4	3.6	-

Always indicate the item number when ordering.

Wedge anchor BZ-IG



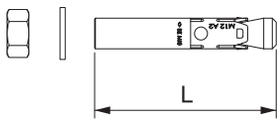
Type	Thread	Bore hole Ø mm	Bore hole depth mm	Dim. L mm	Perm. load range, tension zone kN	Pack. pcs	Weight kg/100 pcs.	Item No.
BZ-IG M 6-0	M6	8	60	50	2	20	1,830	**3498370**
BZ-IG M 8-0	M8	10	75	62	3.6	20	3,333	**3498372**
BZ-IG M 10-0	M10	12	90	70	4.8	20	5,700	**3498374**
BZ-IG M 12-0	M12	16	105	86	7.9	20	12,000	**3498376**

St Steel /100 pc.

G Electrogalvanised

European technical approval ETA-99/0010, including characteristic values under fire exposure to fire resistance R 120.

Shock approval by the Federal Office for Civil Protection in Bern, Switzerland.



Wedge anchor BZ-IG with internal thread for the anchoring of medium-duty to heavy-duty loads, both in cracked and non-cracked concrete. It combines high approved loads with small edge distances and axial spacings. Undercutting the drill holes is not necessary.

The fastening of the component is possible with hexagonal screws or with countersunk head screws as well as with a system of nut and washer and a standard threaded rod.

Setting tool BZ-IG





Type	Thread	Pack. pcs	Weight kg/100 pcs.	Item No.
BZ-IGS M 6V	M6	1	39,400	**3498380**
BZ-IGS M 8V	M8	1	38,300	**3498382**
BZ-IGS M 10V	M10	1	40,600	**3498384**
BZ-IGS M 12V	M12	1	42,100	**3498386**

St Steel /pc.

G Electrogalvanised

Setting toll BZ-IGS for push-through installation.

High-load anchor SZ-B



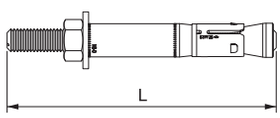
Type	Thread	Bore hole Ø mm	Bore hole depth mm	Dim. L mm	Fixture thickness mm	Perm. load range, tension zone kN	Pack. pcs	Weight kg/100 pcs.	Item No.
SZ-B 18/0x142	M12	18	105	142	30	12.3	20	21,123	**3498752**

St Steel /100 pc.

G Electrogalvanised

Due to the special design with an elongated thread and a shortened anchor sleeve, this special version is not approved to the European Technical norm ETA .

The high-load anchor SZ is a heavy-duty push-through anchor system with a threefold expanding special sleeve which facilitates very high approved loads with small axial spacings and edge distances. The plastic press ring secures the permanent tightening of the fastening piece against the ground.



Always indicate the item number when ordering.

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Drop-in anchor E

Type	Thread	Screw-in depth min.-max. mm	Bore hole Ø mm	Bore hole depth mm	Dim. L mm	Perm. load range, tension zone kN	Pack. pcs	Weight kg/100 pcs.	Item No.
E M 6x30	M6	7 - 13	8	30	30	1.2	100	0,840	**3492900**
E M 8x40	M8	9 - 20	10	40	40	2	100	1,490	**3492910**
E M 10x40	M10	11 - 15	12	40	40	2	50	2,140	**3492920**
E M 12x50	M12	13 - 18	15	50	50	2.4	50	4,420	**3492930**

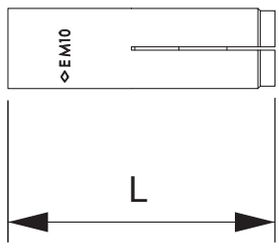
St Steel /100 pc.

G Electrogalvanised



European Technical Approval ETA-02/0020 (option 7) for single fixings in non-cracked concrete and European Technical Approval ETA-05/0116 for multiple fixings in cracked and non-cracked concrete, including characteristic values under fire exposure to fire protection R 120.

The drop-in anchor E can be used for single fixings in non-cracked concrete as well as for multiple fixings in cracked concrete of non-load-bearing systems.
The setting tool is placed onto the anchor sleeve thereby creating a visible mark which confirms the correct installation. Through the controlled expansion, the necessary axial spacings and edge distances are decreased significantly.



Drop-in anchor E, A4

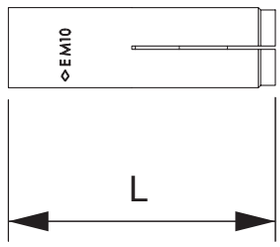
Type	Thread	Screw-in depth min.-max. mm	Bore hole Ø mm	Bore hole depth mm	Dim. L mm	Perm. load range, tension zone kN	Pack. pcs	Weight kg/100 pcs.	Item No.
E M 8x40 A4	M8	9 - 20	10	40	40	2	50	1,490	**3492912**
E M 10x40 A4	M10	11 - 15	12	40	40	2	50	2,160	**3492922**
E M 12x50 A4	M12	13 - 18	15	50	50	2.4	50	4,380	**3492932**

V4A Stainless steel, A4 /100 pc.



European Technical Approval ETA-02/0020 (option 7) for single fixings in non-cracked concrete and European Technical Approval ETA-05/0116 for multiple fixings in cracked and non-cracked concrete, including characteristic values under fire exposure to fire protection R 120.

The drop-in anchor E can be used for single fixings in non-cracked concrete as well as for multiple fixings in cracked concrete of non-load-bearing systems.
The setting tool is placed onto the anchor sleeve thereby creating a visible mark which confirms the correct installation. Through the controlled expansion, the necessary axial spacings and edge distances are decreased significantly.

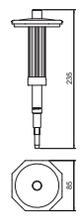


Setting tool for drop-in anchor

Type	Length mm	Thread	Pack. pcs	Weight kg/100 pcs.	Item No.
E-MSH 8x40	235	M8	1	38,000	**3492970**
E-MSH 10x40	235	M10	1	45,000	**3492974**
E-MSH 12x50	235	M12	1	47,000	**3492978**

St Steel /pc.

G Electrogalvanised





Setting tool with hand protection for drop-in anchor of the type E.

Setting tool for drop-in anchor

Type	Length mm	Thread	Pack. pcs	Weight kg/100 pcs.	Item No.
E-SW 6x30	168	M6	1	51,000	**3492990**

St Steel /pc.

G Electrogalvanised



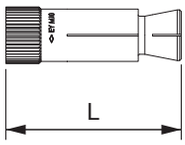


Setting tool for drop-in anchor of the type E. With the standard version there is no marking made on the anchor sleeve.

Always indicate the item number when ordering.

Hollow core anchor Easy





Type	Thread	Bore hole Ø mm	Dim. L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
Easy M8	M8	12	44	25	1,500	**3498770**
Easy M10	M10	16	53	25	3,320	**3498774**
Easy M12	M12	18	58	25	44,230	**3498776**

St Steel /100 pc.

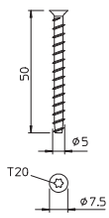
G Electrogalvanised

General type approval Z-21.1-1785 granted by the German Institute for Civil Engineering (DIBt), Berlin, including permissible loads when exposed to fire up to a fire resistance duration of 120 minutes.

Hollow core anchor "Easy" four mounting in prestressed hollow concrete slabs. When the screw or the nut is tightened, the conus is released from the anchor sleeve and pulled into it. This makes the anchor expand in the hollow space, thereby creating form lock. The hollow core anchor can also be used when the expansion area is not located in the cavity.
The fastening of the component can be done with standard screws and threaded rods.

Screw anchor





Type	Dimension mm	Anchor length mm	Bore hole Ø mm	Head Ø mm	Screw system	Pack. pcs	Weight kg/100 pcs.	Item No.
HMS-KS5X50	5 x 50	50	4	7.5	Torx	200	0,460	**3498204**

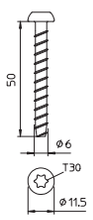
St Steel /100 pc.

G Electrogalvanised

Wedge anchor with countersunk cone head for mounting without additional anchors. Drive T20, drill hole 4 mm. Fire protection tested according to DIN 4102 for concrete and masonry. Fire resistance class to F90.

Screw anchor





Type	Dimension mm	Anchor length mm	Bore hole Ø mm	Head Ø mm	Screw system	Pack. pcs	Weight kg/100 pcs.	Item No.
MMS6X50	6 x 50	50	5	11.5	Torx	100	0,960	**3498107**

St Steel /100 pc.

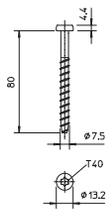
G Electrogalvanised

Substrate
The bolt ties are suitable for screwing into the following types of masonry:
- Calcareous sandstone - Full brick (KSV)
- Calcareous sandstone - Hollow brick (KSL)
- Whole brick (Vz)

Fire protection bolt tie with pan head for direct mounting without additional anchors. Drive T30, drill hole 5 mm. Fire protection tested according to DIN 4102 for concrete and masonry.

Screw anchor





Type	Dimension mm	Anchor length mm	Bore hole Ø mm	Head Ø mm	Screw system	Pack. pcs	Weight kg/100 pcs.	Item No.
MMS7.5X80	7,5 x 80	80	6	13.2	Torx	50	2,174	**3498271**

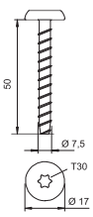
St Steel /100 pc.

G Electrogalvanised

Wedge anchor with pan head for direct mounting without anchors. Drive T40, drill hole 6 mm. Fire protection tested according to DIN 4102 for concrete and masonry. Fire resistance class to F90.

Screw anchor





Type	Dimension mm	Anchor length mm	Bore hole Ø mm	Head Ø mm	Screw system	Pack. pcs	Weight kg/100 pcs.	Item No.
MMS-MS7,5x50	7,5 x 50	50	6	17	Torx	100	1,522	**3498260**

St Steel /100 pc.

G Electrogalvanised

Fire protection bolt tie with large pan head for direct mounting without additional anchors. Drive T30, drill hole 6 mm. Fire protection tested according to DIN 4102 for concrete and masonry.

Always indicate the item number when ordering.

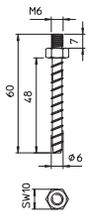
Screw anchor

Type	Dimension mm	Anchor length mm	Bore hole Ø mm	Thread	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MMS-ST6X60	6 x 60	60	5	M6	10	100	1,400	**3498263**

St Steel /100 pc.

G Electrogalvanised

Screw anchor with M6 thread and hexagonal head for direct mounting without additional anchors. WAF 10, drill hole 5 mm. Fire protection tested according to DIN 4102 for concrete and masonry. Fire resistance class to F90.





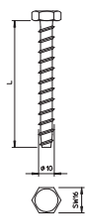
Screw anchor

Type	Dimension mm	Dim. L mm	Bore hole Ø mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MMS10X80	10 x 80	80	8	16	50	3,800	**3498123**
MMS10X100	10x100	100	8	16	50	4,600	**3498158**

St Steel /100 pc.

G Electrogalvanised

Screw anchor with hexagonal head for direct mounting without additional anchor. WAF 16. Drill hole 8 mm. Fire protection tested according to DIN 4102 for concrete and masonry. Fire resistance class to F90.





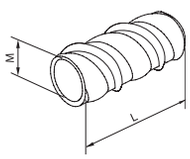
Internal thread tie

Type	Dimension mm	Anchor length mm	Bore hole Ø mm	Bore hole depth mm	Thread	Pack. pcs	Weight kg/100 pcs.	Item No.
SN-M8	12,7 x 31	31	12.7	50	M8	50	3,000	**3498230**
SN-M10	12,7 x 31	31	12.7	50	M10	50	2,500	**3498233**
SN-M12	19,2 x 42	42	19.1	60	M12	50	8,956	**3498236**

St Steel /100 pc.

G Electrogalvanised

SNAKE internally threaded anchor with high load capacity in cracked and uncracked concrete. Settable without spreading forces, packaging unit including setting tool and drill.





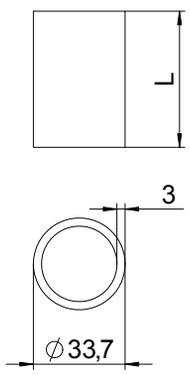
Spacer sleeve for insulated ceilings

Type	Dim. L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DHI 050	50	30	11,600	**7205900**
DHI 060	60	24	14,000	**7205901**
DHI 070	70	20	16,200	**7205902**
DHI 080	80	20	18,200	**7205903**
DHI 090	90	14	20,800	**7205904**
DHI 100	100	14	23,400	**7205905**
DHI 110	110	12	24,600	**7205906**
DHI 120	120	12	27,600	**7205907**
DHI 130	130	12	30,400	**7205908**
DHI 140	140	12	32,800	**7205909**
DHI 150	150	12	35,000	**7205910**

St Steel /100 pc.

FT Hot-dip galvanised

Spacer sleeve for mounting suspension components under insulated ceilings. They prevent the insulation from pushing in when the fastening screws are tightened.
Burr arm, galvanised internally and externally.





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Always indicate the item number when ordering.

Injection mortar in cartridge, 280 ml



Type	Contents ml	Pack. pcs	Weight kg/100 pcs.	Item No.
VMU plus 280	280	1	56,000	**3497903**

Special mortar /pc.

Styrene-free, vinyl ester composite mortar for spread-free anchoring of high loads with threaded anchor rods. Standard cartridge with two foil bags (two components) including one mixing tube. To be worked with the pressing gun, type VM-P 345 Profi, or standard silicone presses.

European technical approval for cracked and uncracked concrete, as well as for masonry of full and hollow brick. Earthquake-proof in concrete according to Category C1. Fire protection approval for concrete and masonry with fire resistance classes up to 120 minutes.

Substrate temperature during processing –10 °C to +40 °C (concrete), ambient temperature after complete hardening –40 °C to +120 °C (in concrete). If stored in a dark, cool and dry place, will keep for at least 12 months.

Installation

Hardening times according to the substrate temperature

Temperature [°C]	–10 *	–5	0	+5	+10	+20	+30	+35	+40
Gelling time [min]	90	90	45	25	15	6	4	2	1.5
Hardening time [min.]	1440	840	420	120	80	45	25	20	15

* Cartridge temperature must be above +15 °C!
If used in a wet substrate or water-filled drill holes, the hardening time doubles.

Injection mortar in cartridge, 420 ml



Type	Contents ml	Pack. pcs	Weight kg/100 pcs.	Item No.
VMU plus 420	420	1	83,000	**3497900**

Special mortar /pc.

Styrene-free, vinyl ester composite mortar for spread-free anchoring of high loads with threaded anchor rods. Coaxial cartridge, including one mixing tube, to be worked with the pressing gun, type VM-P 380 Profi.

European technical approval for cracked and uncracked concrete, as well as for masonry of full and hollow brick. Earthquake-proof in concrete according to Category C1. Fire protection approval for concrete and masonry with fire resistance classes up to 120 minutes.

Substrate temperature during processing –10 °C to +40 °C (concrete), ambient temperature after complete hardening –40 °C to +120 °C (in concrete). If stored in a dark, cool and dry place, will keep for at least 12 months.

Installation

Hardening times according to the substrate temperature

Temperature [°C]	–10 *	–5	0	+5	+10	+20	+30	+35	+40
Gelling time [min]	90	90	45	25	15	6	4	2	1.5
Hardening time [min.]	1440	840	420	120	80	45	25	20	15

* Cartridge temperature must be above +15 °C!
If used in a wet substrate or water-filled drill holes, the hardening time doubles.

Pressing gun for 280 ml and side-by-side cartridges



Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VM-P 345 Profi	1	100,000	**3497906**

Plastic /pc.

Side-by-side cartridge pistol for the use of standard cartridges or side-by-side cartridges. The cartridge pistol is suitable for the injection mortar VMU plus 280 and can also be used with normal 300 ml cartridges.

Pressing gun for 10:1 coaxial cartridges



Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VM-P 380 Profi	1	110,000	**3497909**

Plastic /pc.

High-quality two-component cartridge pistol. The parallel movement of the outlet to the holding grip ensures easy working. Suitable for the injection mortar type VMU plus 420.

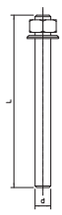
Always indicate the item number when ordering.

Threaded rod

Type	Dim. L mm	Dim. d mm	Thread	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
VMU-AH 6-65vz	65	4.8	M6	10	10	1,880	**3497936**
VMU-AH 8-65vz	65	6.5	M8	13	10	2,600	**3497939**
VMU-AH 8-120vz	120	6.5	M8	13	10	4,900	**3497942**
VMU-AH 10-160vz	160	8.2	M10	17	10	8,600	**3497948**
VMU-AH 10-140vz	140	8.2	M10	17	10	7,900	**3497945**
VMU-AH 12-165vz	165	9.9	M12	19	10	12,000	**3497951**

St Steel /100 pc.

G Electrogalvanised





Anchor rod of quality 5.8 for use in the injection mortar system VMU plus. Including washer and hexagonal nut.

Installation

Characteristic mounting and measurement values

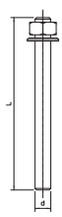
Anchor rod		VMU-AH 6-65vz	VMU-AH 8-65vz	VMU-AH 8-120vz	VMU-AH 10-140vz	VMU-AH 10-160vz	VMU-AH 12-165vz
eff. Anchoring depth	mm	49	49	93	93	93	93
Drill hole Ø	mm	12	18	18	18	18	18
Drill hole depth	mm	55	55	100	100	100	100
Appr. load area, tension zone *	kN	0.5	0.5	1.5	1.5	1.5	1.5
Wire sleeve		VMU-SH 12x50	VMU-SH 12x50	VMU-SH 18x95	VMU-SH 18x95	VMU-SH 18x95	VMU-SH 18x95

* Masonry anchoring basis: Hollow brick HLz, 2DF; according to DIN 105, EN 771-1
Load values for other anchoring bases on request

Threaded rod

Type	Dim. L mm	Dim. d mm	Thread	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
VMU-AH 6-65A4	65	4.8	M6	10	10	1,880	**3497954**
VMU-AH 8-120A4	120	6.5	M8	13	10	4,900	**3497957**
VMU-AH 10-140A4	140	8.2	M10	17	10	7,900	**3497960**
VMU-AH 12-165A4	165	9.9	M12	19	10	124,000	**3497963**

V4A Stainless steel, A4 /100 pc.





Stainless steel anchor rod for use in the injection mortar system VMU plus. Including washer and hexagonal nut.

Installation

Characteristic mounting and measurement values

Anchor rod		VMU-AH 6-65A4	VMU-AH 8-120A4	VMU-AH 10-140A4	VMU-AH 12-165A4
Eff. Anchoring depth	mm	49	93	93	93
Drill hole Ø	mm	12	18	18	18
Drill hole depth	mm	55	100	100	100
Approx. load area, tension zone*	kN		1.5	1.5	1.5
Wire sleeve		VMU-SH 12x50	VMU-SH 18x95	VMU-SH 18x95	VMU-SH 18x95

*Masonry anchoring basis: Hollow brick HLz, 2DF; according to DIN 105, EN 771-1
Load values for other anchoring bases on request

Plastic wire sleeve

Type	Dim. L mm	Dim. d mm	Pack. pcs	Weight kg/100 pcs.	Item No.
VMU-SH 12x50	55	12	10	0,100	**3497966**
VMU-SH 18x95	100	18	10	0,300	**3497969**

PA Polyamide /100 pc.





Plastic wire sleeve for use in hollow brick and stones in combination with injection mortar system VMU plus.

Perforated sleeve, metal

Type	Dim. L mm	Dim. d mm	Pack. pcs	Weight kg/100 pcs.	Item No.
VM-SH 12x1000	1000	12	1	6,000	**3497972**
VM-SH 16x1000	1000	16	1	7,000	**3497975**
VM-SH 22x1000	1000	22	1	10,000	**3497978**

St Steel /100 pc.



Metal wire sleeve for use in hollow brick and stones in combination with injection mortar system VMU plus.

Always indicate the item number when ordering.

Blow pump for drill holes



Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VM-AP 360	1	27,000	**3497912**

Plastic /pc.

Manual pump with 750 ml air volume to blowing out drill holes according to anchor approval.

Steel cleaning brush for drill holes



Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
H-RB M6	280	1	2,600	**3497933**

St Steel /pc.

Adapter for accepting steel wire brushes for manual cleaning of drill holes according to the anchor approval.

Steel cleaning brush for drill holes



Type	Diameter mm	Length mm	Thread	Pack. pcs	Weight kg/100 pcs.	Item No.
RB-MW 8 M6	8	120	M6	1	26,000	**3497918**
RB-MW 10 M6	10	130	M6	1	2,500	**3497921**
RB-MW 12 M6	12	140	M6	1	2,500	**3497924**
RB-MW 14 M6	14	180	M6	1	2,500	**3497927**
RB-MW 18 M6	18	200	M6	1	4,000	**3497930**

St Steel /pc.

Steel wire brushes for cleaning of drill holes according to the anchor approval. With threaded connection for SDS adapter.

SDS adapter



Type	Pack. pcs	Weight kg/100 pcs.	Item No.
RBL M6 SDS	1	6,000	**3497915**

St Steel /pc.

Adapter for accepting steel wire brushes for mechanical cleaning of drill holes according to the anchor approval. Suitable for drills with SDS shank.

SDS-Extension



Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB-L 150 M6	150	1	9,700	**3497932**

St Steel /pc.

Extension with internal and external M6 thread for the connection of the SDS adapter with steel wire brush in difficult to access drill holes.

Mixer pipe for mortar cartridge



Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VM-X	12	1,000	**3497981**

PA Polyamide /pc.

Mixing tubes for attachment to the cartridges of the VMU plus injection mortar system.

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Extension pipe

Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
VM-XE 10/200	200	12	1,000	**3497984**
VM-XE 10/500	500	10	2,000	**3497987**

PA Polyamide /pc.

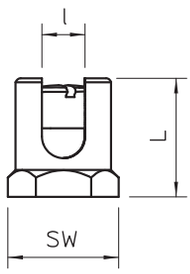
Fixed length extension tube for use on the mixing tube tips in the VMU plus injection mortar system.

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Always indicate the item number when ordering.

Earthing terminal





Type	Cross-section mm²	SW mm	Thread	Accessories	Pack. pcs	Weight kg/100 pcs.	Item No.
EKL 25 M6	25	18	M6	–	50	3,100	**6404006**
EKL 35 M6	35	21	M6	–	50	4,800	**6404014**
EKL 25 M8	25	21	M8	With screw M8 x 10	50	3,970	**6404001**

CuZn Brass /100 pc.

Earthing screw for fastening the equipotential bonding wire to the cable support system.

Zinc repairs



Type	Contents ml	Pack. pcs	Weight kg/100 pcs.	Item No.
ZSF	400	1	45,000	**2362970**

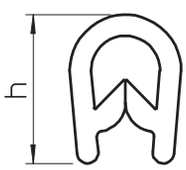
/pc.

The zinc spray can be used in the temperature range -20 °C to 150 °C.

Zinc spray for treatment of unprotected surfaces and cutting edges. Can contents: 400 ml.

Edge protection strip





Type	For plate thickness mm	Dim. h mm	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
KSB 2 PVC	0.75 - 2	10	Black	10000	10	8,000	**6072909**
KSB 4 PVC	1.5 - 4	15	Black	10000	10	14,000	**6072895**

PVC Polyvinylchloride price/100 m

Edge protection strip with steel inlay to cover cut plate ends. Black, UV-resistant version.

Always indicate the item number when ordering.



Cable tray systems

Always indicate the item number when ordering.

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Cable tray systems, Magic



Side height 35 mm 260



Side height 60 mm 264



Side height 85 mm 276



Side height 110 mm 286



System accessories 35, 60, 85, 110 296

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Cable tray RKS-Magic®



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
RKSM 310 FS	100	0.75	3	104,910	**6047417**
RKSM 320 FS	200	0.75	3	149,840	**6047433**
RKSM 330 FS	300	0.75	3	209,840	**6047460**

St Steel /m

FS Strip-galvanised

RKSM 35 = Efficient magic cable tray system with 35 mm side height.

Cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation, with beaded straight base perforation, 7 x 20 mm, for bracket mounting and, from the width 200 mm, with 7 x 32 mm transverse beading for cable ventilation and simplified mounting. With 11 mm perforation for direct threaded rod suspension. Continuous side perforation, 7 x 20 mm, as connector perforation. The stock length is 3,050 mm, the useful length when combined is 3,000 mm.

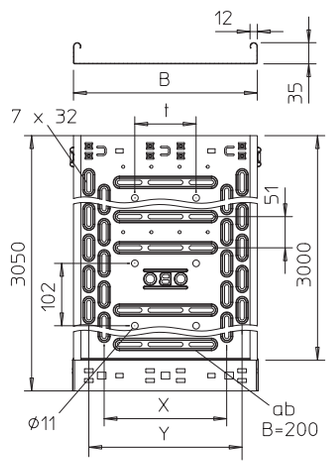
The spring element FED 35 can be ordered separately as an accessory part (spare) for the cable tray RKS-Magic with a side height of 35 mm under the article number 6068853.

The continuous equipotential bonding is guaranteed without additional components.

VDE tested cable tray system.

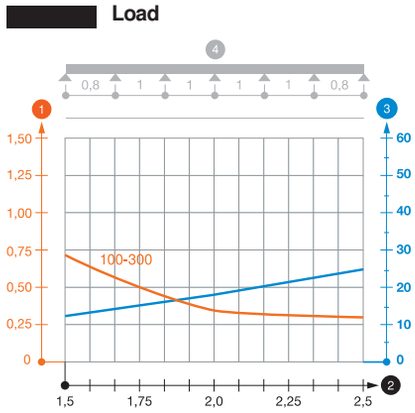
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Width mm	Useful cross-section cm²	Dimension x mm	Dimension y mm
RKSM 310 FS	3050	100	33	—	50
RKSM 320 FS	3050	200	68	100	150
RKSM 330 FS	3050	300	103	200	250

Load



Type	1.5 m kN/m	1.75 m kN/m	2.0 m kN/m	2.25 m kN/m
RKSM 310 FS	0.75	0.5	0.35	0.3
RKSM 320 FS	0.75	0.5	0.35	0.3
RKSM 330 FS	0.75	0.5	0.35	0.3

Load diagram, cable tray, type RKSM 35

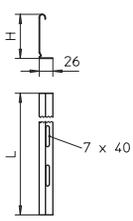
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Barrier strip





Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 30 FS	30	3000	3	38,000	**6062050**

St Steel /m

FS Strip-galvanised

Barrier strip for separation of cables of different voltages or functions.

Always indicate the item number when ordering.

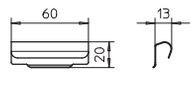
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Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**

V2A Stainless steel, grade 301 /pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.



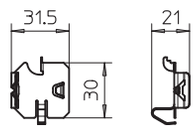


Hold-down clamp for barrier strip fastening in RKSM

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KR VA4310	30	0,580	**6062280**

V2A Stainless steel, grade 301 /100 pc.

Hold-down clamp for screwless fastening of barrier strips in the cable tray types RKSM, MKS and SKS.





Magic straight connector set

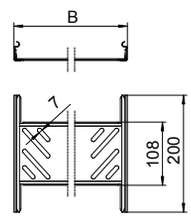
Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KTSMV 310 FS	35	100	1	22,700	**6068900**
KTSMV 320 FS	35	200	1	29,400	**6068902**
KTSMV 330 FS	35	300	1	36,100	**6068904**

St Steel /pc.

FS Strip-galvanised

Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 35 mm.

The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.





Straight connector

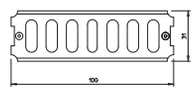
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RLVK 35 FS	35	10	5,100	**6067085**

St Steel /pc.

FS Strip-galvanised

Straight connector for connections of cable trays and fittings with a side height of 35 mm.

Including appropriate fastening material.





Straight and angle connector

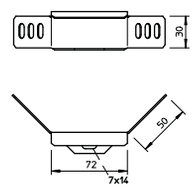
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WKV 35 FS	35	5	6,800	**6043038**
RWVL 35 FS	35	10	10,500	**6067107**

St Steel /pc.

FS Strip-galvanised

Angle connector for cable trays with a side height of 35 mm.

Including appropriate fastening material.



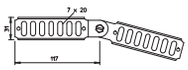


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Always indicate the item number when ordering.

Adjustable connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGV 35 FS	35	10	11,000	**7082002**

St Steel /pc.

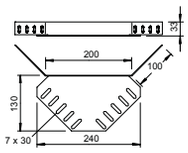
FS Strip-galvanised

Adjustable connector for cable trays with a side height of 35 mm.

Including appropriate fastening material.

Corner connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
REV 35 FS	35	10	39,000	**6067956**

St Steel /pc.

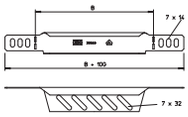
FS Strip-galvanised

Corner connector for cable trays with side height 35 mm.

Fastening materials should be ordered separately.

Reducer / stop-end





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWEB 310 FS	100	1	7,400	**7108109**
RWEB 320 FS	200	1	12,300	**7108206**
RWEB 330 FS	300	1	18,300	**7108311**

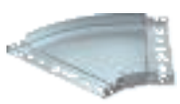
St Steel /pc.

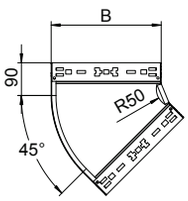
FS Strip-galvanised

Reducer/stop-end for cable trays with side height 35 mm.

From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

45° Magic bend





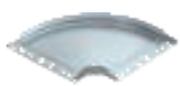
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBM 45 310 FS	100	1	40,800	**6041000**
RBM 45 320 FS	200	1	74,500	**6041002**
RBM 45 330 FS	300	1	84,400	**6041004**

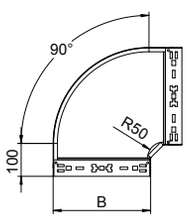
St Steel /pc.

FS Strip-galvanised

45° bend with quick connector system. For all cable tray types of 35 mm side height.

90° Magic bend





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBM 90 310 FS	100	1	53,700	**6041010**
RBM 90 320 FS	200	1	106,200	**6041012**
RBM 90 330 FS	300	1	173,000	**6041014**

St Steel /pc.

FS Strip-galvanised

90° bend with quick connector system. For all cable tray types of 35 mm side height.

Always indicate the item number when ordering.

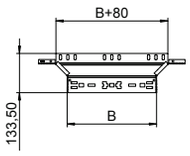
Magic add-on tee

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RAAM 310 FS	100	1	30,700	**6041020**
RAAM 320 FS	200	1	43,400	**6041022**
RAAM 330 FS	300	1	56,300	**6041024**

St Steel /pc.

FS Strip-galvanised

Add-on tee with quick connector system. For all cable tray types of 35 mm side height.





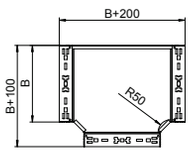
Magic tee

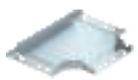
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RTM 310 FS	100	1	69,400	**6041030**
RTM 320 FS	200	1	134,000	**6041032**
RTM 330 FS	300	1	216,600	**6041034**

St Steel /pc.

FS Strip-galvanised

Tee with quick connector system. For all cable tray types of 35 mm side height.





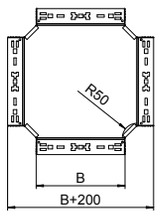
Magic cross-over

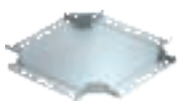
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RKM 310 FS	100	1	78,700	**7027241**
RKM 320 FS	200	1	146,300	**7027243**
RKM 330 FS	300	1	231,600	**7027245**

St Steel /pc.

FS Strip-galvanised

Cross-over with quick connector system. For all cable tray types of 35 mm side height.





90° vertical bend, rising

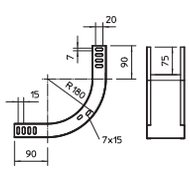
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 310 S FS	100	1	56,000	**7007174**
RBV 320 S FS	200	1	77,900	**7007182**
RBV 330 S FS	300	1	199,700	**7007186**

St Steel /pc.

FS Strip-galvanised

90° rising vertical bend, for all cable tray types of 35 mm side height.

The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.





90° vertical bend, falling

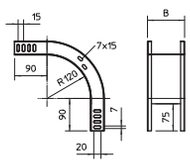
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 310 F FS	100	1	51,700	**7007204**
RBV 320 F FS	200	1	69,300	**7007212**
RBV 330 F FS	300	1	86,900	**7007216**

St Steel /pc.

FS Strip-galvanised

90° vertical bend, falling, for all cable tray types of 35 mm side height.

The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.





Always indicate the item number when ordering.

Cable tray RKS-Magic®



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
RKSM 610 FS	100	0.75	3	132,131	**6047611**
RKSM 615 FS	150	0.75	3	155,080	**6047630**
RKSM 620 FS	200	0.75	3	183,000	**6047638**
RKSM 630 FS	300	0.75	3	235,080	**6047654**
RKSM 640 FS	400	0.9	3	325,900	**6047689**
RKSM 650 FS	500	0.9	3	385,900	**6047719**
RKSM 660 FS	600	0.9	3	445,900	**6047735**
RKSM 610 FT	100	0.75	3	172,460	**6047612**
RKSM 615 FT	150	0.75	3	218,030	**6047631**
RKSM 620 FT	200	0.75	3	241,640	**6047639**
RKSM 630 FT	300	0.75	3	311,800	**6047655**
RKSM 640 FT	400	0.9	3	426,340	**6047690**

St Steel /m

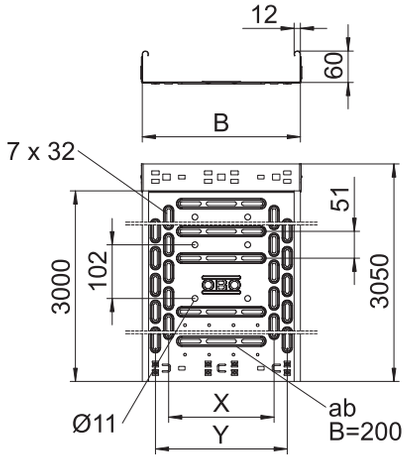
FS Strip-galvanised FT Hot-dip galvanised

RKSM 60 = efficient magic cable tray system with 60 mm side height.

Cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation, with beaded straight base perforation, 7 x 20 mm, for bracket mounting and, from the width 200 mm, with 7 x 32 mm transverse beading for cable ventilation and simplified mounting. With 11 mm perforation for direct threaded rod suspension.
Continuous side perforation, 7 x 20 mm, as connector perforation.
The stock length is 3,050 mm, the usable length when combined is 3,000 mm.
The spring element FED 60 can be ordered separately as an accessory part (spare) for the cable tray RKS Magic with a side height of 60 mm under the article number 6068859.
The continuous equipotential bonding is guaranteed without additional components.VDE-tested cable tray system. Tested for function maintenance according to DIN 4102 Part 12 (tray widths 100–400 mm, mounting work and parameters according to valid test certificate).

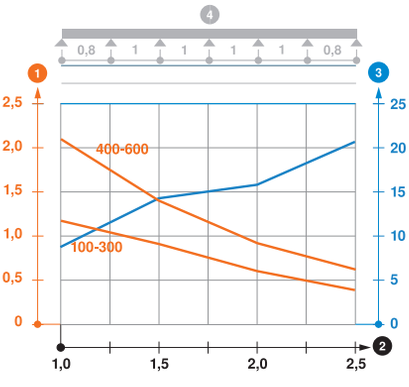
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Width mm	Useful cross-section cm²	Dimension x mm	Dimension y mm
RKSM 610 FS	3050	100	58	—	50
RKSM 615 FS	3050	150	88	50	100
RKSM 620 FS	3050	200	118	100	150
RKSM 630 FS	3050	300	178	200	250
RKSM 640 FS	3050	400	238	300	350
RKSM 650 FS	3050	500	298	400	450
RKSM 660 FS	3050	600	358	450	550

Load



Type	1.0 m kN/m	1.5 m kN/m	1.75 m kN/m	2.0 m kN/m	2.25 m kN/m
RKSM 610 FS	1.2	0.9	—	0.6	—
RKSM 615 FS	1.2	1	0.65	0.6	0.45
RKSM 620 FS	1.2	1	0.65	0.55	0.45
RKSM 630 FS	1.2	1	0.65	0.55	0.45
RKSM 640 FS	2.1	1.35	1.15	0.8	0.7
RKSM 650 FS	2.1	1.35	1.15	0.8	0.7
RKSM 660 FS	2.1	1.35	1.15	0.8	0.7

Load diagram, cable tray, type RKSM 60

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

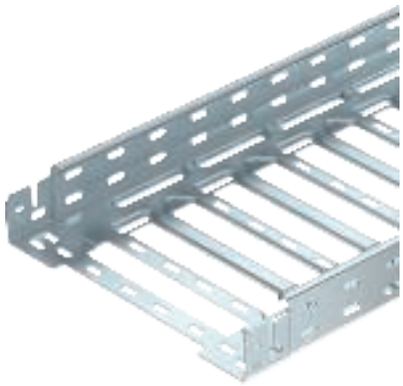
4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

Cable tray MKS-Magic®



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKSM 610 FS	100	1	3	165,000	**6059000**
MKSM 615 FS	150	1	3	201,000	**6059002**
MKSM 620 FS	200	1	3	219,340	**6059004**
MKSM 630 FS	300	1	3	256,720	**6059006**
MKSM 640 FS	400	1	3	294,000	**6059008**
MKSM 650 FS	500	1	3	331,500	**6059010**
MKSM 660 FS	600	1	3	368,850	**6059012**
MKSM 610 FT	100	1	3	180,000	**6059018**
MKSM 615 FT	150	1	3	219,000	**6059020**
MKSM 620 FT	200	1	3	239,340	**6059022**
MKSM 630 FT	300	1	3	280,000	**6059025**
MKSM 640 FT	400	1	3	320,650	**6059027**
MKSM 650 FT	500	1	3	361,300	**6059029**
MKSM 660 FT	600	1	3	402,290	**6059032**

St Steel /m

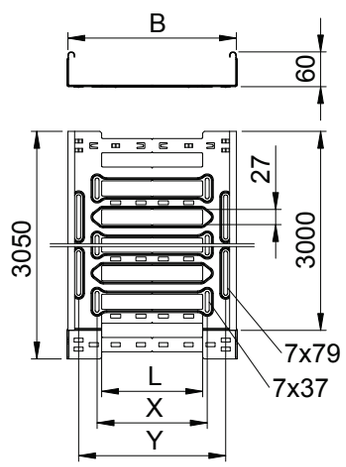
FS Strip-galvanised FT Hot-dip galvanised

MKSM 60 = Medium-duty Magic cable tray system with a side height of 60 mm.

Cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation, with beaded straight base perforation, 7 x 79 mm, for bracket mounting. All widths with cross beading for stabilisation and duct ventilation. Continuous side perforation, 7 x 20 mm, as additional connector perforation. From a cable tray width of 200 mm, they are suitable for use under sprinkler systems according to VdS guideline 2092 permeable cable tray system with 30% hole surface. The stock length is 3,050 mm, the usable length when combined is 3,000 mm. The spring element FED 60 can be ordered separately as an accessory part (spare) for the Magic cable trays of side height 60 mm, 85 mm and 110 mm under the article number 6068859. Continuous equipotential bonding is guaranteed without additional components. VDE-tested cable tray system.

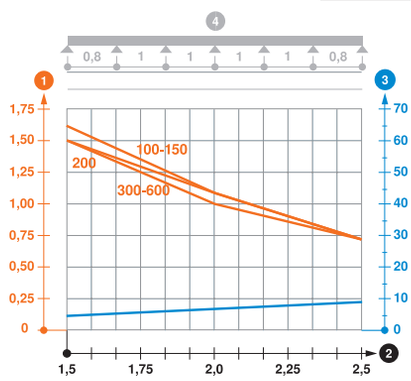
Dimensions

Type	Length mm	Width mm	Useful cross-section cm²	Dimension x mm	Dimension y mm
MKSM 610 FS	3050	100	58	—	62
MKSM 615 FS	3050	150	88	46	112
MKSM 620 FS	3050	200	118	96	162
MKSM 630 FS	3050	300	178	196	262
MKSM 640 FS	3050	400	238	296	362
MKSM 650 FS	3050	500	298	396	462
MKSM 660 FS	3050	600	358	496	562



Load

Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSM 610 FS	1.6	1.1	0.7
MKSM 615 FS	1.6	1.1	0.7
MKSM 620 FS	1.5	1.1	0.7
MKSM 630 FS	1.5	1	0.7
MKSM 640 FS	1.5	1	0.7
MKSM 650 FS	1.5	1	0.7
MKSM 660 FS	1.5	1	0.7



Load diagram, cable tray, type MKSM 60

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

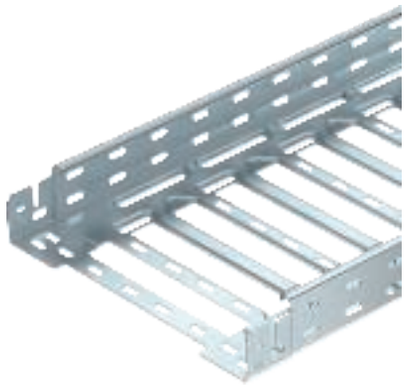
4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

Cable tray SKS-Magic®



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
SKSM 610 FS	100	1.5	3	247,540	**6059456**
SKSM 615 FS	150	1.5	3	301,630	**6059458**
SKSM 620 FS	200	1.5	3	329,180	**6059460**
SKSM 630 FS	300	1.5	3	385,240	**6059462**
SKSM 640 FS	400	1.5	3	441,310	**6059464**
SKSM 650 FS	500	1.5	3	497,370	**6059466**
SKSM 660 FS	600	1.5	3	553,440	**6059468**
SKSM 610 FT	100	1.5	3	269,830	**6059473**
SKSM 615 FT	150	1.5	3	328,850	**6059475**
SKSM 620 FT	200	1.5	3	359,000	**6059477**
SKSM 630 FT	300	1.5	3	420,000	**6059479**
SKSM 640 FT	400	1.5	3	481,310	**6059481**
SKSM 650 FT	500	1.5	3	542,290	**6059483**
SKSM 660 FT	600	1.5	3	603,600	**6059485**

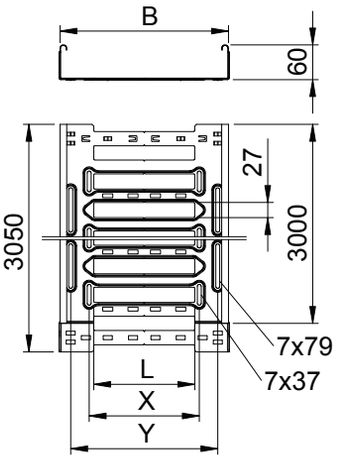
St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

SKSM 60 = Heavy-duty Magic cable tray system with 60 mm side height.

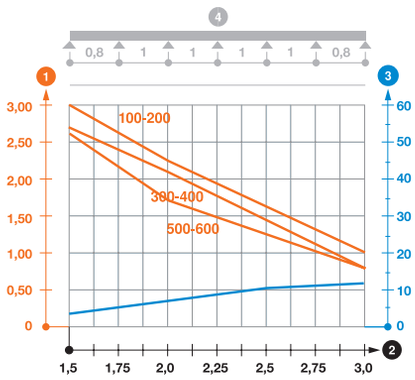
Cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation, with beaded straight base perforation, 7 x 79 mm, for bracket mounting. All widths with cross beading for stabilisation and duct ventilation. Continuous side perforation, 7 x 20 mm, as additional connector perforation. From a cable tray width of 200 mm, they are suitable for use under sprinkler systems according to VdS guideline 2092 permeable cable tray system with 30% hole surface. The stock length is 3050 mm, the usable length when combined is 3000 mm. The spring element FED 60 can be ordered separately as an accessory part (spare) for the Magic cable trays of side height 60 mm, 85 mm and 110 mm under the article number 6068859. Continuous equipotential bonding is guaranteed without additional components. VDE-tested cable tray system.

Dimensions



Type	Length mm	Width mm	Useful cross-section cm²	Dimension x mm	Dimension y mm
SKSM 610 FS	3050	100	58	—	62
SKSM 615 FS	3050	150	88	46	112
SKSM 620 FS	3050	200	118	96	162
SKSM 630 FS	3050	300	178	196	262
SKSM 640 FS	3050	400	238	296	362
SKSM 650 FS	3050	500	298	396	462
SKSM 660 FS	3050	600	358	496	562

Load



Type	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
SKSM 610 FS	3	2.25	1
SKSM 615 FS	3	2.25	1
SKSM 620 FS	3	2.25	1
SKSM 630 FS	2.7	2.1	0.8
SKSM 640 FS	2.7	2.1	0.8
SKSM 650 FS	2.6	1.8	0.8
SKSM 660 FS	2.6	1.8	0.8

Load diagram, cable tray, type SKSM 60

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

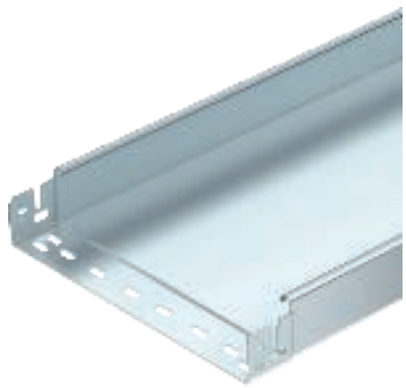
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Cable tray MKS-Magic®, unperforated

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKSMU 610 FS	100	1	3	191,140	**6059230**
MKSMU 615 FS	150	1	3	230,500	**6059232**
MKSMU 620 FS	200	1	3	269,840	**6059234**
MKSMU 630 FS	300	1	3	348,200	**6059237**
MKSMU 640 FS	400	1	3	426,550	**6059239**
MKSMU 650 FS	500	1	3	505,250	**6059241**
MKSMU 660 FS	600	1	3	583,600	**6059243**
MKSMU 610 FT	100	1	3	208,500	**6059248**
MKSMU 615 FT	150	1	3	251,500	**6059250**
MKSMU 620 FT	200	1	3	294,100	**6059252**
MKSMU 630 FT	300	1	3	379,670	**6059254**
MKSMU 640 FT	400	1	3	465,240	**6059256**
MKSMU 650 FT	500	1	3	550,800	**6059258**
MKSMU 660 FT	600	1	3	636,390	**6059260**

St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

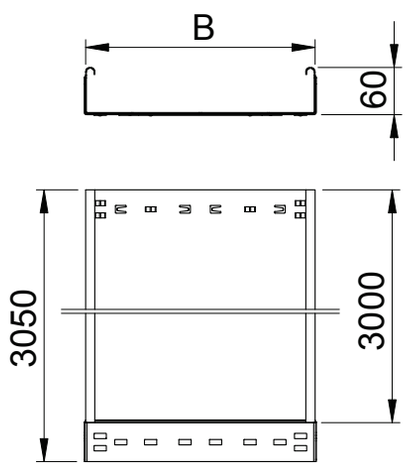


MKSMU 60 = Medium-duty Magic cable tray system, unperforated, with a side height of 60 mm.

Unperforated cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation.
The stock length is 3,050 mm, the usable length when combined is 3,000 mm.
The spring element FED 60 can be ordered separately as an accessory part (spare) for the Magic cable trays with a side height of 60 mm, 85 mm and 110 mm under the article number 6068859.
The continuous equipotential bonding is guaranteed without additional components.
VDE-tested cable tray system.

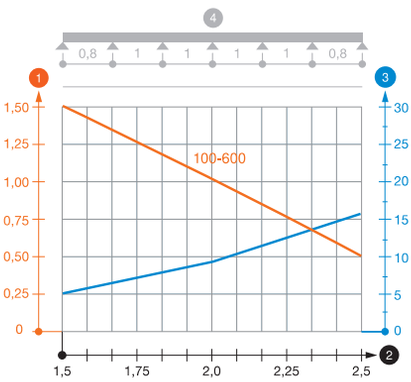
Dimensions

Type	Length mm	Width mm	Useful cross-section cm²
MKSMU 610 FS	3050	100	58
MKSMU 615 FS	3050	150	88
MKSMU 620 FS	3050	200	118
MKSMU 630 FS	3050	300	178
MKSMU 640 FS	3050	400	238
MKSMU 650 FS	3050	500	298
MKSMU 660 FS	3050	600	358



Load

Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSMU 610 FS	1.5	1	0.5
MKSMU 615 FS	1.5	1	0.5
MKSMU 620 FS	1.5	1	0.5
MKSMU 630 FS	1.5	1	0.5
MKSMU 640 FS	1.5	1	0.5
MKSMU 650 FS	1.5	1	0.5
MKSMU 660 FS	1.5	1	0.5

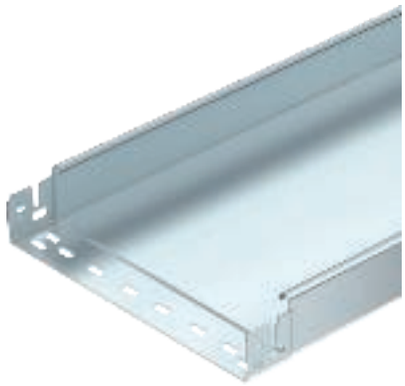


Load diagram, cable tray, type MKSMU 60

1 Permitted cable tray/ladder load in kN/m without man load
2 Support width in m
3 Rail bend in mm at permitted kN/m
4 Load scheme during testing
Load curve with cable tray/ladder width in mm
Strut bend curve according to support width

Always indicate the item number when ordering.

Cable tray SKS-Magic®, unperforated



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
SKSMU 610 FS	100	1.5	3	286,880	**6059688**
SKSMU 615 FS	150	1.5	3	345,900	**6059690**
SKSMU 620 FS	200	1.5	3	404,590	**6059692**
SKSMU 630 FS	300	1.5	3	522,290	**6059694**
SKSMU 640 FS	400	1.5	3	640,000	**6059696**
SKSMU 650 FS	500	1.5	3	757,700	**6059698**
SKSMU 660 FS	600	1.5	3	875,400	**6059700**
SKSMU 610 FT	100	1.5	3	312,780	**6059705**
SKSMU 615 FT	150	1.5	3	377,050	**6059707**
SKSMU 620 FT	200	1.5	3	441,300	**6059709**
SKSMU 630 FT	300	1.5	3	569,500	**6059711**
SKSMU 640 FT	400	1.5	3	698,000	**6059713**
SKSMU 650 FT	500	1.5	3	826,220	**6059715**
SKSMU 660 FT	600	1.5	3	954,750	**6059717**

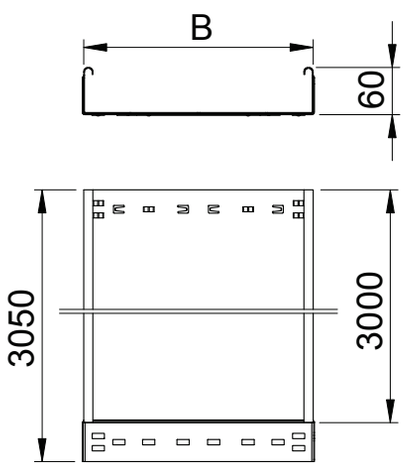
St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

SKSMU 60 = Heavy-duty Magic cable tray system, unperforated, with 60 mm side height.

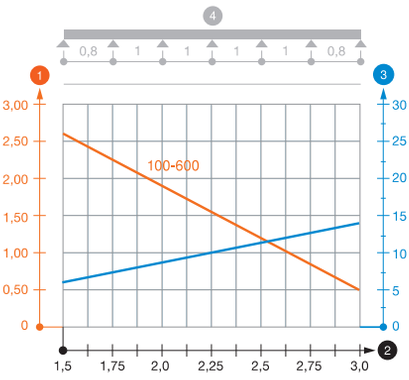
Unperforated cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation.
The stock length is 3,050 mm, the usable length when combined is 3,000 mm.
The spring element FED 60 can be ordered separately as an accessory part (spare) for the Magic cable trays with a side height of 60 mm, 85 mm and 110 mm under the article number 6068859.
The continuous equipotential bonding is guaranteed without additional components.
VDE-tested cable tray system.

Dimensions



Type	Length mm	Width mm	Useful cross-section cm²
SKSMU 610 FS	3050	100	58
SKSMU 615 FS	3050	150	88
SKSMU 620 FS	3050	200	118
SKSMU 630 FS	3050	300	178
SKSMU 640 FS	3050	400	238
SKSMU 650 FS	3050	500	298
SKSMU 660 FS	3050	600	358

Load



Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKSMU 610 FS	2.6	1.9	1.1	0.55
SKSMU 615 FS	2.6	1.9	1.1	0.55
SKSMU 620 FS	2.6	1.9	1.1	0.55
SKSMU 630 FS	2.6	1.9	1.1	0.55
SKSMU 640 FS	2.6	1.9	1.1	0.55
SKSMU 650 FS	2.6	1.9	1.1	0.55
SKSMU 660 FS	2.6	1.9	1.1	0.55

Load diagram, cable tray, type SKSMU 60

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

Load curve with cable tray/ladder width in mm

Strut bend curve according to support width

Always indicate the item number when ordering.

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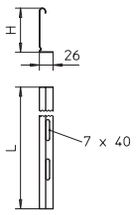
Barrier strip

Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 60 FS	60	3000	3	55,700	**6062068**
TSG 60 DD	60	3000	3	55,700	**6062327**

St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.





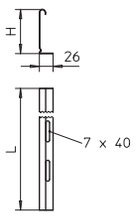
Barrier strip

Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 45 FS	45	3000	3	46,700	**6062033**
TSG 45 DD	45	3000	3	46,700	**6062321**

St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.



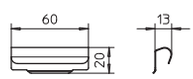


Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**

V2A Stainless steel, grade 301 /pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.



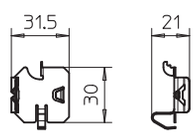


Hold-down clamp for barrier strip fastening in RKSM

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KR VA4310	30	0,580	**6062280**

V2A Stainless steel, grade 301 /100 pc.

Hold-down clamp for screwless fastening of barrier strips in the cable tray types RKSM, MKS and SKS.



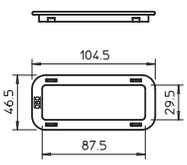


Cable protection ring

Type	Colour	For side perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-DR 920 PE	Light grey	32 x 90	25	0,640	**6087965**

PE Polyethylene /pc.

Cable protection ring for side perforation in the side rails of the IKS cable tray.

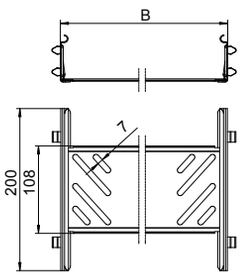




Always indicate the item number when ordering.

Magic straight connector set





Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KTSMV 610 FS	60	100	1	30,500	**6068914**
KTSMV 615 FS	60	150	1	34,900	**6068916**
KTSMV 620 FS	60	200	1	37,200	**6068918**
KTSMV 630 FS	60	300	1	44,000	**6068920**
KTSMV 640 FS	60	400	1	50,700	**6068922**
KTSMV 650 FS	60	500	1	57,400	**6068924**
KTSMV 660 FS	60	600	1	64,200	**6068926**
KTSMV 610 DD	60	100	1	30,500	**6068936**
KTSMV 615 DD	60	150	1	34,900	**6068938**
KTSMV 620 DD	60	200	1	37,200	**6068940**
KTSMV 630 DD	60	300	1	44,000	**6068942**
KTSMV 640 DD	60	400	1	50,700	**6068944**
KTSMV 650 DD	60	500	1	57,400	**6068946**
KTSMV 660 DD	60	600	1	64,200	**6068948**

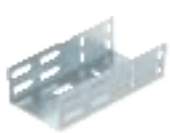
St Steel /pc.

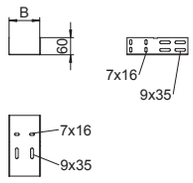
FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 60 mm.

The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

Connector for expansion compensation





Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RDV 610 DD	60	100	1	57,900	**6065974**
RDV 620 DD	60	200	1	82,400	**6065976**
RDV 630 DD	60	300	1	105,000	**6065978**
RDV 640 DD	60	400	1	129,500	**6065980**
RDV 650 DD	60	500	1	152,100	**6065982**
RDV 660 DD	60	600	1	199,700	**6065984**

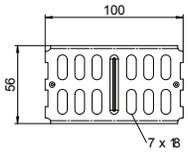
St Steel /pc.

DD Strip galvanised zinc/aluminium, Double Dip

Straight connector for compensation of linear thermal expansion.

Straight connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RLVK 60 FS	60	10	9,200	**6067093**
RLVK 60 FT	60	10	10,700	**6067603**

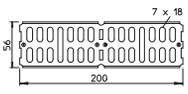
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Straight connector for straight connection of cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.

Straight and angle connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWVL 60 FS	60	10	15,600	**6067115**
RWVL 60 FT	60	10	17,400	**6067611**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Straight and angle connector for cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.

Always indicate the item number when ordering.

Straight and angle connector

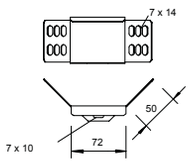
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WKV 60 FS	60	5	13,000	**6043062**
WKV 60 FT	60	5	14,000	**6042910**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Angle connector for cable trays with a side height of 60 mm.

Including appropriate fastening material.





Adjustable connector

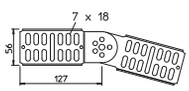
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGV 60 FS	60	10	24,000	**7082010**
RGV 60 FT	60	10	25,000	**7082223**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Adjustable connector for cable trays with a side height of 60 mm.

Including appropriate fastening material.





Corner connector

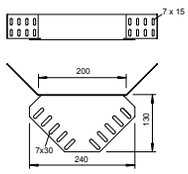
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
REV 60 FS	60	10	49,000	**6067972**
REV 60 DD	60	10	32,100	**6069410**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Corner connector for cable trays with side height 60 mm.

Fastening materials should be ordered separately.





Reducer / stop-end

Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWEB 610 FS	60	100	1	8,800	**7109105**
RWEB 615 FS	60	150	1	13,600	**7109156**
RWEB 620 FS	60	200	1	17,600	**7109202**
RWEB 630 FS	60	300	1	25,600	**7109296**
RWEB 640 FS	60	400	1	33,500	**7109407**
RWEB 650 FS	60	500	1	41,500	**7109504**
RWEB 660 FS	60	600	1	49,500	**7109601**
RWEB 610 DD	60	100	1	8,600	**7106106**
RWEB 615 DD	60	150	1	13,400	**7106110**
RWEB 620 DD	60	200	1	17,500	**7106114**
RWEB 630 DD	60	300	1	25,400	**7106118**
RWEB 640 DD	60	400	1	33,000	**7106122**
RWEB 650 DD	60	500	1	41,300	**7106126**
RWEB 660 DD	60	600	1	49,200	**7106130**

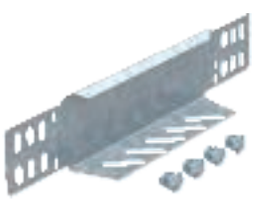
St Steel /pc.

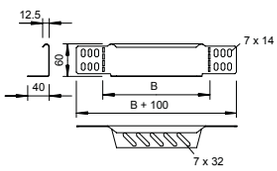
FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Reducer and end closure plate for cable trays with side height 60 mm.

From a width of 150 mm, a perforated lower flange is available.

Including appropriate fastening material.

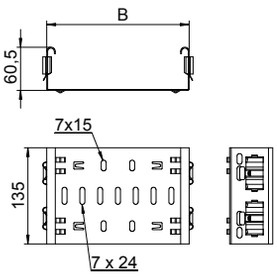




Always indicate the item number when ordering.

Magic straight connector





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FVM 610 DD	100	1	31,900	**6065710**
FVM 615 DD	150	1	37,900	**6065712**
FVM 620 DD	200	1	44,000	**6065714**
FVM 630 DD	300	1	57,000	**6065716**
FVM 640 DD	400	1	69,400	**6065718**
FVM 650 DD	500	1	82,000	**6065720**
FVM 660 DD	600	1	94,600	**6065722**

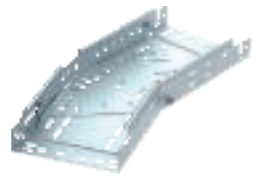
St Steel /pc.

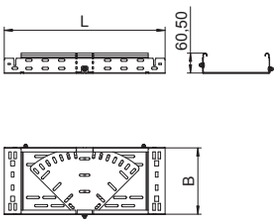
DD Strip galvanised zinc/aluminium, Double Dip

Magic straight connector for direct and screwless joining of Magic fittings with a side height of 60 mm.
The straight connector is equipped with four brackets and can also be used for the direct connection with a cut cable tray with only two brackets mounted to one side. To join a cut cable tray with a fitting, an additional Magic straight connector set is needed.

The fitting connect is compatible with cable tray types MKSM, MKSMU, SKSM and SKSMU.

Magic bend, variable





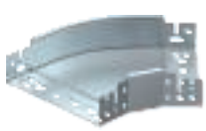
Type	Dim. L mm	Width mm	Dim. L mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBMV 610 FS	340	100	340	1	1	75,900	**6040480**
RBMV 615 FS	420	150	420	1	1	112,400	**6040482**
RBMV 620 FS	490	200	490	1	1	163,200	**6040484**
RBMV 630 FS	640	300	640	1.25	1	291,700	**6040486**
RBMV 640 FS	820	400	820	1.25	1	463,200	**6040488**
RBMV 650 FS	960	500	960	1.5	1	658,500	**6040490**
RBMV 660 FS	1120	600	1120	1.5	1	899,200	**6040492**
RBMV 610 FT	340	100	340	1	1	82,800	**6040500**
RBMV 615 FT	420	150	420	1	1	127,600	**6040502**
RBMV 620 FT	490	200	490	1	1	178,000	**6040504**
RBMV 630 FT	640	300	640	1.25	1	386,300	**6040506**
RBMV 640 FT	820	400	820	1.25	1	619,600	**6040508**
RBMV 650 FT	960	500	960	1.5	1	1.044,700	**6040510**
RBMV 660 FT	1120	600	1120	1.5	1	1.427,200	**6040512**

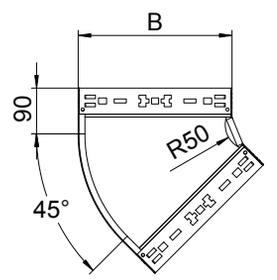
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Magic bend 0°–90°, variable, with quick connector system. For all cable tray types of 60 mm side height.

45° Magic bend





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBM 45 610 FS	100	1	50,400	**6041040**
RBM 45 615 FS	150	1	67,300	**6041042**
RBM 45 620 FS	200	1	86,000	**6041044**
RBM 45 630 FS	300	1	128,300	**6041046**
RBM 45 640 FS	400	1	174,800	**6041048**
RBM 45 650 FS	500	1	232,700	**6041050**
RBM 45 660 FS	600	1	298,300	**6041052**
RBM 45 610 FT	100	1	54,000	**6041060**
RBM 45 615 FT	150	1	72,200	**6041062**
RBM 45 620 FT	200	1	92,200	**6041064**
RBM 45 630 FT	300	1	137,600	**6041066**
RBM 45 640 FT	400	1	187,400	**6041068**
RBM 45 650 FT	500	1	249,500	**6041070**
RBM 45 660 FT	600	1	319,900	**6041072**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

45° bend with quick connector system. For all cable tray types of 60 mm side height.

Always indicate the item number when ordering.

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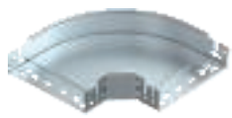
90° Magic bend

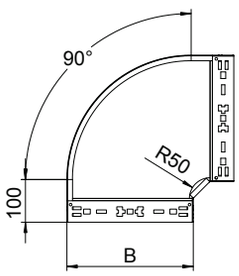
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBM 90 610 FS	100	1	65,700	**6041130**
RBM 90 615 FS	150	1	92,000	**6041132**
RBM 90 620 FS	200	1	122,100	**6041134**
RBM 90 630 FS	300	1	192,800	**6041136**
RBM 90 640 FS	400	1	275,400	**6041138**
RBM 90 650 FS	500	1	377,200	**6041140**
RBM 90 660 FS	600	1	494,300	**6041142**
RBM 90 610 FT	100	1	70,500	**6041150**
RBM 90 615 FT	150	1	98,700	**6041152**
RBM 90 620 FT	200	1	130,900	**6041154**
RBM 90 630 FT	300	1	206,800	**6041156**
RBM 90 640 FT	400	1	295,300	**6041158**
RBM 90 650 FT	500	1	404,500	**6041160**
RBM 90 660 FT	600	1	530,100	**6041162**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

90° bend with quick connector system. For all cable tray types of 60 mm side height.





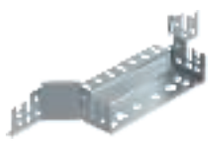
Magic add-on tee

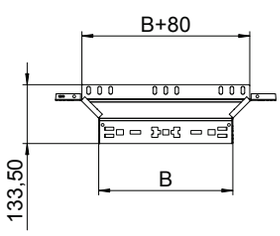
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RAAM 610 FS	100	1	37,900	**6041230**
RAAM 615 FS	150	1	44,300	**6041232**
RAAM 620 FS	200	1	50,600	**6041234**
RAAM 630 FS	300	1	63,500	**6041236**
RAAM 640 FS	400	1	76,500	**6041238**
RAAM 650 FS	500	1	89,300	**6041240**
RAAM 660 FS	600	1	102,700	**6041242**
RAAM 610 FT	100	1	40,600	**6041250**
RAAM 615 FT	150	1	47,500	**6041252**
RAAM 620 FT	200	1	54,300	**6041254**
RAAM 630 FT	300	1	68,100	**6041257**
RAAM 640 FT	400	1	82,000	**6041259**
RAAM 650 FT	500	1	105,400	**6041261**
RAAM 660 FT	600	1	110,100	**6041263**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Add-on tee with quick connector system. For all cable tray types of 60 mm side height.





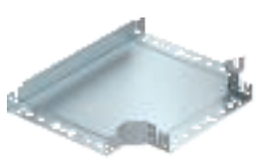
Magic tee

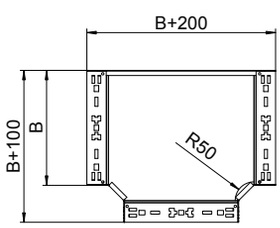
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RTM 610 FS	100	1	83,600	**6041320**
RTM 615 FS	150	1	114,700	**6041322**
RTM 620 FS	200	1	150,600	**6041324**
RTM 630 FS	300	1	235,700	**6041326**
RTM 640 FS	400	1	335,600	**6041328**
RTM 650 FS	500	1	460,500	**6041330**
RTM 660 FS	600	1	605,000	**6041332**
RTM 610 FT	100	1	89,600	**6041340**
RTM 615 FT	150	1	123,000	**6041342**
RTM 620 FT	200	1	161,500	**6041344**
RTM 630 FT	300	1	252,800	**6041348**
RTM 640 FT	400	1	359,900	**6041350**
RTM 650 FT	500	1	493,800	**6041352**
RTM 660 FT	600	1	648,800	**6041354**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Tee with quick connector system. For all cable tray types of 60 mm side height.

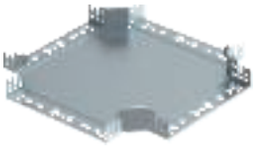


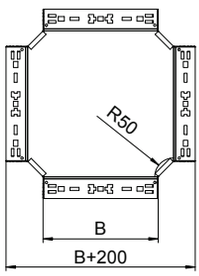


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Always indicate the item number when ordering.

Magic cross-over





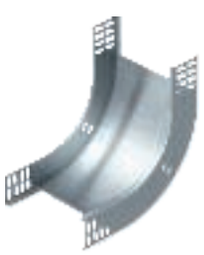
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RKM 610 FS	100	1	93,200	**7027001**
RKM 615 FS	150	1	124,600	**7027003**
RKM 620 FS	200	1	160,800	**7027005**
RKM 630 FS	300	1	246,100	**7027007**
RKM 640 FS	400	1	343,400	**7027009**
RKM 650 FS	500	1	468,300	**7027011**
RKM 660 FS	600	1	612,800	**7027013**
RKM 610 FT	100	1	99,900	**7027021**
RKM 620 FT	200	1	172,400	**7027025**
RKM 630 FT	300	1	263,900	**7027027**
RKM 640 FT	400	1	368,200	**7027029**
RKM 650 FT	500	1	502,200	**7027031**
RKM 660 FT	600	1	657,100	**7027033**

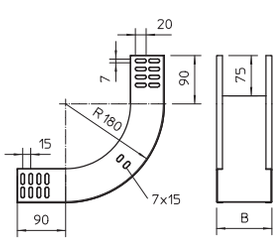
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Cross-over with quick connector system. For all cable tray types of 60 mm side height.

90° vertical bend, rising





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 610 S FS	100	1	66,000	**7007005**
RBV 615 S FS	150	1	78,000	**7007009**
RBV 620 S FS	200	1	95,000	**7007013**
RBV 630 S FS	300	1	124,000	**7007017**
RBV 640 S FS	400	1	153,000	**7007021**
RBV 650 S FS	500	1	181,000	**7007025**
RBV 660 S FS	600	1	210,000	**7007029**
RBV 610 S FT	100	1	71,000	**7007006**
RBV 615 S FT	150	1	84,000	**7007010**
RBV 620 S FT	200	1	103,000	**7007014**
RBV 630 S FT	300	1	134,000	**7007018**
RBV 640 S FT	400	1	163,000	**7007022**
RBV 650 S FT	500	1	190,000	**7007026**
RBV 660 S FT	600	1	221,000	**7007030**

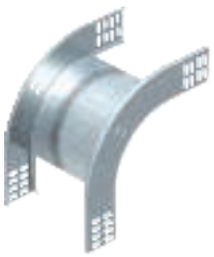
St Steel /pc.

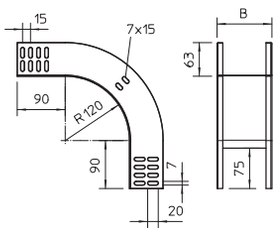
FS Strip-galvanised FT Hot-dip galvanised

90° rising vertical bend, for all cable tray types of 60 mm side height.

The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

90° vertical bend, falling





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 610 F FS	100	1	61,000	**7007055**
RBV 615 F FS	150	1	73,000	**7007059**
RBV 620 F FS	200	1	84,000	**7007063**
RBV 630 F FS	300	1	107,000	**7007067**
RBV 640 F FS	400	1	130,000	**7007071**
RBV 650 F FS	500	1	153,000	**7007075**
RBV 660 F FS	600	1	176,000	**7007079**
RBV 610 F FT	100	1	66,000	**7007056**
RBV 615 F FT	150	1	80,000	**7007060**
RBV 620 F FT	200	1	92,000	**7007064**
RBV 630 F FT	300	1	116,000	**7007068**
RBV 640 F FT	400	1	142,000	**7007072**
RBV 650 F FT	500	1	167,000	**7007076**
RBV 660 F FT	600	1	192,000	**7007080**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

90° vertical bend, falling, for all cable tray types of 60 mm side height.

The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

Always indicate the item number when ordering.

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90° adjustable vertical bend

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGBV 610 FS	100	1	173,700	**7006322**
RGBV 615 FS	150	1	194,000	**7006330**
RGBV 620 FS	200	1	219,000	**7006349**
RGBV 630 FS	300	1	264,000	**7006365**
RGBV 640 FS	400	1	311,000	**7006381**
RGBV 650 FS	500	1	394,000	**7006411**
RGBV 660 FS	600	1	430,000	**7006446**
RGBV 610 FT	100	1	186,000	**7079109**
RGBV 615 FT	150	1	200,000	**7079141**
RGBV 620 FT	200	1	217,800	**7079206**
RGBV 630 FT	300	1	295,000	**7079303**
RGBV 640 FT	400	1	349,000	**7079400**
RGBV 650 FT	500	1	404,000	**7079508**
RGBV 660 FT	600	1	460,000	**7079605**

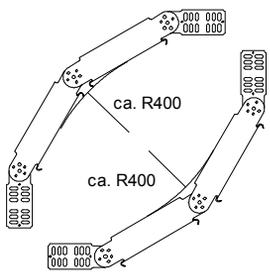
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

90° adjustable vertical bend, for all cable tray types with a side height of 60 mm.

The bend is shipped in an unmounted state. No additional fastening materials are required.





Adjustable vertical bend element

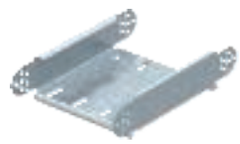
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGBEV 610 FS	100	1	48,100	**7005326**
RGBEV 615 FS	150	1	61,500	**7005334**
RGBEV 620 FS	200	1	63,600	**7005342**
RGBEV 630 FS	300	1	80,400	**7005369**
RGBEV 640 FS	400	1	114,000	**7005385**
RGBEV 650 FS	500	1	134,000	**7005407**
RGBEV 660 FS	600	1	154,800	**7005423**
RGBEV 610 FT	100	1	52,400	**7075103**
RGBEV 615 FT	150	1	61,800	**7075154**
RGBEV 620 FT	200	1	69,300	**7075200**
RGBEV 630 FT	300	1	87,600	**7075308**
RGBEV 640 FT	400	1	123,000	**7075405**
RGBEV 650 FT	500	1	144,000	**7075502**
RGBEV 660 FT	600	1	166,400	**7075596**

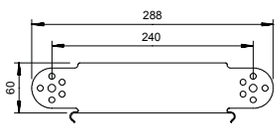
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Adjustable vertical bend element, for all cable tray types with a side height of 60 mm.

RGV 60 adjustable connectors should be ordered separately and in the appropriate quantity.





04 KTS Masterkatalog Länder / en / 25/10/2016 (LLExport_04366) / 25/10/2016

Always indicate the item number when ordering.

Cable tray MKS-Magic®



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKSM 810 FS	100	1	3	200,000	**6059080**
MKSM 820 FS	200	1	3	254,750	**6059084**
MKSM 830 FS	300	1	3	292,130	**6059086**
MKSM 840 FS	400	1	3	329,500	**6059088**
MKSM 850 FS	500	1	3	366,900	**6059090**
MKSM 860 FS	600	1	3	403,930	**6059092**
MKSM 810 FT	100	1	3	218,000	**6059097**
MKSM 820 FT	200	1	3	277,700	**6059101**
MKSM 830 FT	300	1	3	318,700	**6059103**
MKSM 840 FT	400	1	3	359,340	**6059105**
MKSM 850 FT	500	1	3	400,000	**6059107**
MKSM 860 FT	600	1	3	440,300	**6059109**

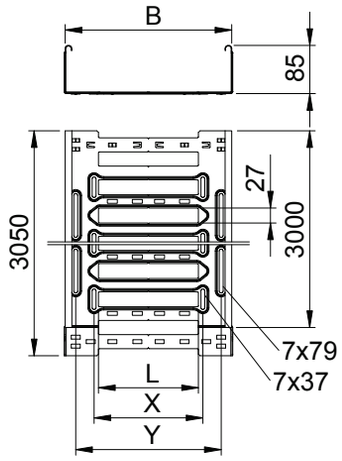
St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

MKSM 85 = medium-duty Magic cable tray system with a side height of 85 mm.

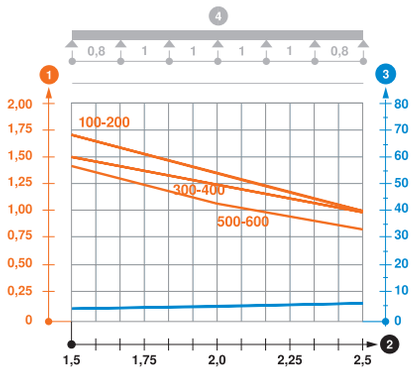
Cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation, with beaded straight base perforation, 7 x 79 mm, for bracket mounting. All widths with cross beading for stabilisation and duct ventilation. Continuous side perforation, 7 x 20 mm, as additional connector perforation. From a cable tray width of 200 mm, they are suitable for use under sprinkler systems according to VdS guideline 2092 permeable cable tray system with 30% hole surface. The stock length is 3050 mm, the usable length when combined is 3000 mm. The spring element FED 60 can be ordered separately as an accessory part (spare) for the Magic cable trays of side height 60 mm, 85 mm and 110 mm under the article number 6068859. Continuous equipotential bonding is guaranteed without additional components. VDE-tested cable tray system.

Dimensions



Type	Length mm	Width mm	Useful cross-section cm²	Dimension x mm	Dimension y mm
MKSM 810 FS	3050	100	83	—	62
MKSM 820 FS	3050	200	186	96	162
MKSM 830 FS	3050	300	253	196	262
MKSM 840 FS	3050	400	338	296	362
MKSM 850 FS	3050	500	423	396	462
MKSM 860 FS	3050	600	508	496	562

Load



Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSM 810 FS	1.7	1.35	1
MKSM 820 FS	1.7	1.35	1
MKSM 830 FS	1.5	1.25	1
MKSM 840 FS	1.5	1.25	1
MKSM 850 FS	1.4	1.1	0.85
MKSM 860 FS	1.4	1.1	0.85

Load diagram, cable tray, type MKSM 85

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

04 KTS Masterkatalog Länder / en / 25/10/2016 (LLExport_04366) / 25/10/2016

Cable tray SKS-Magic®



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
SKSM 810 FS	100	1.5	3	300,000	**6059530**
SKSM 820 FS	200	1.5	3	381,960	**6059534**
SKSM 830 FS	300	1.5	3	438,000	**6059536**
SKSM 840 FS	400	1.5	3	494,100	**6059538**
SKSM 850 FS	500	1.5	3	550,160	**6059540**
SKSM 860 FS	600	1.5	3	605,900	**6059542**
SKSM 810 FT	100	1.5	3	318,360	**6059549**
SKSM 820 FT	200	1.5	3	404,910	**6059553**
SKSM 830 FT	300	1.5	3	464,590	**6059555**
SKSM 840 FT	400	1.5	3	523,930	**6059557**
SKSM 850 FT	500	1.5	3	583,270	**6059559**
SKSM 860 FT	600	1.5	3	642,950	**6059561**

St Steel /m

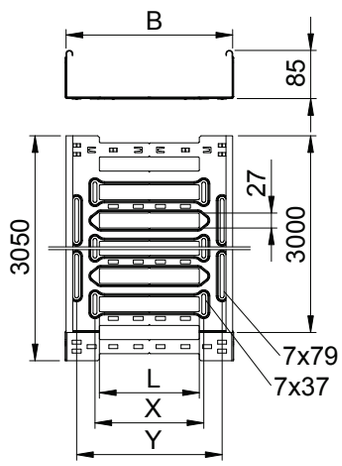
FS Strip-galvanised FT Hot-dip galvanised

SKSM 85 = Heavy-duty Magic cable tray system with 85 mm side height.

Cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation, with beaded straight base perforation, 7 x 79 mm, for bracket mounting. All widths with cross beading for stabilisation and duct ventilation. Continuous side perforation, 7 x 20 mm, as additional connector perforation. From a cable tray width of 200 mm, they are suitable for use under sprinkler systems according to VdS guideline 2092 permeable cable tray system with 30% hole surface. The stock length is 3050 mm, the usable length when combined is 3000 mm. The spring element FED 60 can be ordered separately as an accessory part (spare) for the Magic cable trays of side height 60 mm, 85 mm and 110 mm under the article number 6068859. Continuous equipotential bonding is guaranteed without additional components. VDE-tested cable tray system.

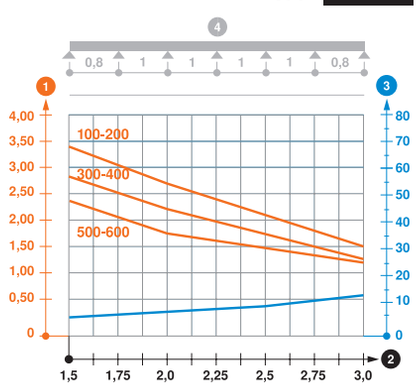
Dimensions

Type	Length mm	Width mm	Useful cross-section cm²	Dimension x mm	Dimension y mm
SKSM 810 FS	3050	100	83	—	62
SKSM 820 FS	3050	200	186	96	162
SKSM 830 FS	3050	300	253	196	262
SKSM 840 FS	3050	400	338	296	362
SKSM 850 FS	3050	500	423	396	462
SKSM 860 FS	3050	600	508	496	562



Load

Type	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
SKSM 810 FS	3.4	2.7	1.5
SKSM 820 FS	3.4	2.7	1.5
SKSM 830 FS	2.8	2.25	1.35
SKSM 840 FS	2.8	2.25	1.35
SKSM 850 FS	2.4	1.75	1.2
SKSM 860 FS	2.4	1.75	1.2



Load diagram, cable tray, type SKSM 85

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

Cable tray MKS-Magic®, unperforated



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKSMU 810 FS	100	1	3	230,170	**6059308**
MKSMU 820 FS	200	1	3	308,800	**6059312**
MKSMU 830 FS	300	1	3	387,200	**6059314**
MKSMU 840 FS	400	1	3	465,570	**6059316**
MKSMU 850 FS	500	1	3	544,260	**6059318**
MKSMU 860 FS	600	1	3	622,900	**6059320**
MKSMU 810 FT	100	1	3	251,140	**6059325**
MKSMU 820 FT	200	1	3	336,720	**6059329**
MKSMU 830 FT	300	1	3	422,290	**6059331**
MKSMU 840 FT	400	1	3	507,500	**6059333**
MKSMU 850 FT	500	1	3	593,440	**6059335**
MKSMU 860 FT	600	1	3	679,340	**6059337**

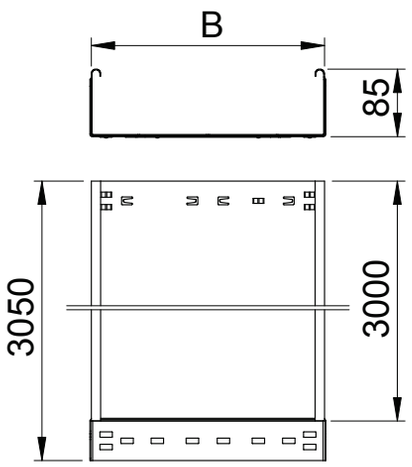
St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

MKSMU 85 = Medium duty Magic cable tray system, unperforated, with a side height of 85 mm.

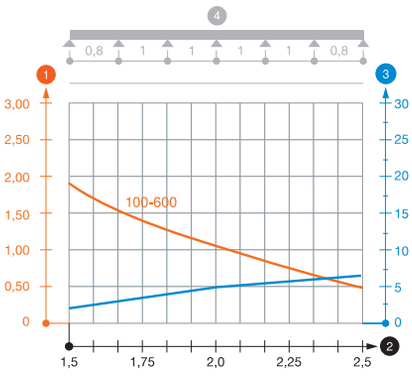
Unperforated cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation.
The stock length is 3,050 mm, the usable length when combined is 3,000 mm.
The spring element FED 60 can be ordered separately as an accessory part (spare) for the Magic cable trays with a side height of 60 mm, 85 mm and 110 mm under the article number 6068859.
The continuous equipotential bonding is guaranteed without additional components.
VDE-tested cable tray system.

Dimensions



Type	Length mm	Width mm	Useful cross-section cm²
MKSMU 810 FS	3050	100	83
MKSMU 820 FS	3050	200	186
MKSMU 830 FS	3050	300	253
MKSMU 840 FS	3050	400	338
MKSMU 850 FS	3050	500	423
MKSMU 860 FS	3050	600	508

Load



Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSMU 810 FS	1.75	1.1	0.5
MKSMU 820 FS	1.75	1.1	0.5
MKSMU 830 FS	1.75	1.1	0.5
MKSMU 840 FS	1.75	1.1	0.5
MKSMU 850 FS	1.75	1.1	0.5
MKSMU 860 FS	1.75	1.1	0.5

Load diagram, cable tray, type MKSMU 85

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

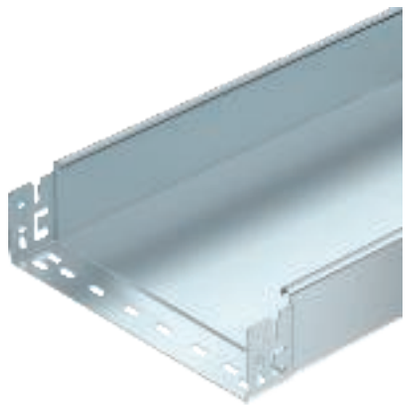
Always indicate the item number when ordering.

Cable tray SKS-Magic®, unperforated

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
SKSMU 810 FS	100	1.5	3	345,570	**6059762**
SKSMU 820 FS	200	1.5	3	463,270	**6059766**
SKSMU 830 FS	300	1.5	3	580,980	**6059768**
SKSMU 840 FS	400	1.5	3	698,680	**6059770**
SKSMU 850 FS	500	1.5	3	816,390	**6059772**
SKSMU 860 FS	600	1.5	3	934,100	**6059774**
SKSMU 810 FT	100	1.5	3	366,550	**6059779**
SKSMU 820 FT	200	1.5	3	474,750	**6059783**
SKSMU 830 FT	300	1.5	3	616,060	**6059785**
SKSMU 840 FT	400	1.5	3	740,980	**6059787**
SKSMU 850 FT	500	1.5	3	865,570	**6059789**
SKSMU 860 FT	600	1.5	3	990,490	**6059791**

St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

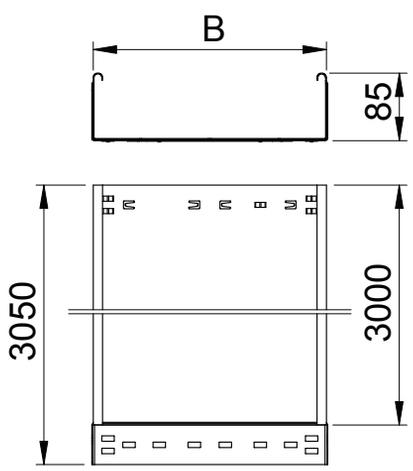


SKSMU 85 = Heavy-duty Magic cable tray system, unperforated, with 85 mm side height.

Unperforated cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation.
The stock length is 3,050 mm, the usable length when combined is 3,000 mm.
The spring element FED 60 can be ordered separately as an accessory part (spare) for the Magic cable trays with a side height of 60 mm, 85 mm and 110 mm under the article number 6068859.
The continuous equipotential bonding is guaranteed without additional components.
VDE-tested cable tray system.

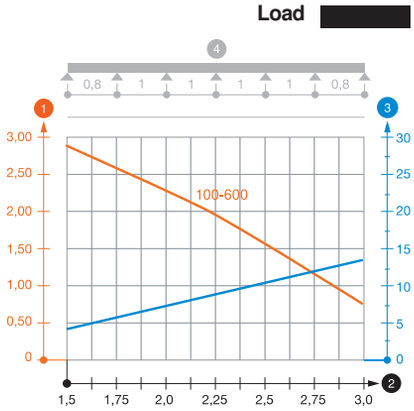
Dimensions

Type	Length mm	Width mm	Useful cross-section cm²
SKSMU 810 FS	3050	100	83
SKSMU 820 FS	3050	200	186
SKSMU 830 FS	3050	300	253
SKSMU 840 FS	3050	400	338
SKSMU 850 FS	3050	500	423
SKSMU 860 FS	3050	600	508



Load

Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKSMU 810 FS	2.8	2.25	1.5	0.75
SKSMU 820 FS	2.8	2.25	1.5	0.75
SKSMU 830 FS	2.8	2.25	1.5	0.75
SKSMU 840 FS	2.8	2.25	1.5	0.75
SKSMU 850 FS	2.8	2.25	1.5	0.75
SKSMU 860 FS	2.8	2.25	1.5	0.75



Load diagram, cable tray, type SKSMU 85

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

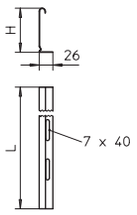
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

Barrier strip





Type	Dimension H mm	Plate thickness mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 85 FS	85	0.75	3000	3	70,300	**6062114**
TSG 85 DD	85	0.75	3000	3	70,300	**6062331**

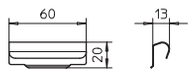
St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.

Barrier strip connector



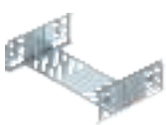


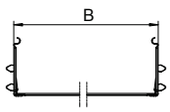
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**

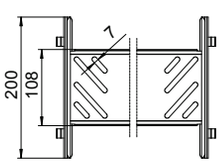
V2A Stainless steel, grade 301 /pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.

Magic straight connector set







Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KTSMV 810 FS	100	1	37,100	**6069002**
KTSMV 820 FS	200	1	43,800	**6069006**
KTSMV 830 FS	300	1	50,600	**6069008**
KTSMV 840 FS	400	1	57,300	**6069010**
KTSMV 850 FS	500	1	64,000	**6069012**
KTSMV 860 FS	600	1	70,800	**6069014**
KTSMV 810 DD	100	1	37,100	**6069024**
KTSMV 820 DD	200	1	43,800	**6069028**
KTSMV 830 DD	300	1	50,600	**6069030**
KTSMV 840 DD	400	1	57,300	**6069032**
KTSMV 850 DD	500	1	64,000	**6069034**
KTSMV 860 DD	600	1	70,800	**6069036**

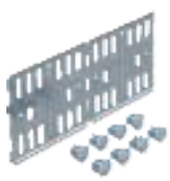
St Steel /pc.

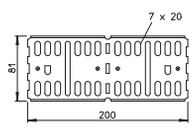
FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 85 mm.

The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

Straight and angle connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RLVL 85 FS	85	10	27,300	**6067123**
RLVL 85 FT	85	10	28,300	**6067816**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Straight and angle connector for cable trays and fittings with a side height of 85 mm.

Including appropriate fastening material.

Always indicate the item number when ordering.

Adjustable connector

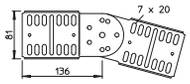
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGV 85 FS	85	10	34,000	**7082029**
RGV 85 FT	85	10	34,000	**7082320**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Adjustable connector for cable trays with a side height of 85 mm.

Including appropriate fastening material.





Corner connector

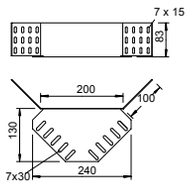
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
REV 85 FS	85	10	61,000	**6067980**
REV 85 DD	85	10	61,000	**6069320**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Corner connector for cable trays with side height 85 mm.

Fastening materials should be ordered separately.





Reducer / stop-end

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWEB 810 FS	100	1	12,500	**7110103**
RWEB 820 FS	200	1	23,400	**7110200**
RWEB 830 FS	300	1	33,300	**7110308**
RWEB 840 FS	400	1	43,200	**7110405**
RWEB 850 FS	500	1	53,200	**7110502**
RWEB 860 FS	600	1	63,000	**7110618**
RWEB 810 DD	100	1	12,600	**7107315**
RWEB 820 DD	200	1	23,300	**7107331**
RWEB 830 DD	300	1	33,300	**7107366**
RWEB 840 DD	400	1	43,200	**7107382**
RWEB 850 DD	500	1	53,100	**7107404**
RWEB 860 DD	600	1	63,100	**7107420**

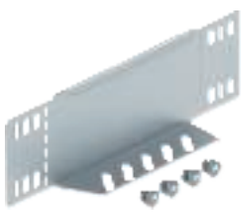
St Steel /pc.

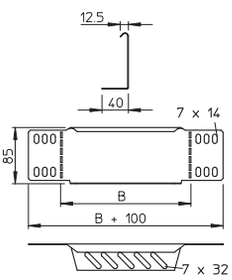
FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Reducer/stop-end for cable trays with side height 85 mm.

From a width of 150 mm, a perforated lower flange is available.

Including appropriate fastening material.





Magic straight connector

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FVM 810 DD	100	1	37,700	**6065810**
FVM 820 DD	200	1	49,800	**6065814**
FVM 830 DD	300	1	62,500	**6065816**
FVM 840 DD	400	1	75,200	**6065818**
FVM 850 DD	500	1	87,400	**6065820**
FVM 860 DD	600	1	100,200	**6065822**

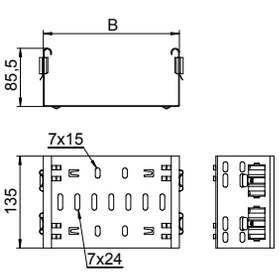
St Steel /pc.

DD Strip galvanised zinc/aluminium, Double Dip

Magic straight connector for direct and screwless joining of Magic fittings with a side height of 85 mm.
The straight connector is equipped with four brackets and can also be used for the direct connection with a cut cable tray with only two brackets mounted to one side. To join a cut cable tray with a fitting, an additional Magic straight connector set is needed.

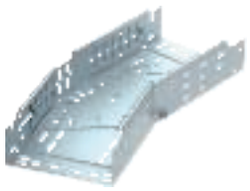
The fitting connect is compatible with cable tray types MKSM, MKSMU, SKSM and SKSMU.

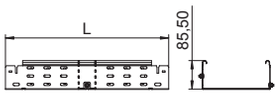


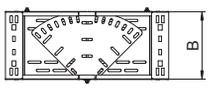


Always indicate the item number when ordering.

Magic bend, variable







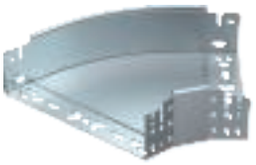
Type	Dim. L mm	Width mm	Dim. L mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBMV 810 FS	340	100	340	1	1	88,500	**6040580**
RBMV 820 FS	490	200	490	1	1	185,400	**6040584**
RBMV 830 FS	640	300	640	1.25	1	324,700	**6040586**
RBMV 840 FS	820	400	820	1.25	1	505,500	**6040588**
RBMV 850 FS	960	500	960	1.5	1	1.059,200	**6040590**
RBMV 860 FS	1120	600	1120	1.5	1	1.433,700	**6040592**
RBMV 810 FT	340	100	340	1	1	100,000	**6040600**
RBMV 820 FT	490	200	490	1	1	202,200	**6040604**
RBMV 830 FT	640	300	640	1.25	1	430,300	**6040606**
RBMV 840 FT	820	400	820	1.25	1	676,200	**6040608**
RBMV 850 FT	960	500	960	1.5	1	1.167,800	**6040610**
RBMV 860 FT	1120	600	1120	1.5	1	1.520,100	**6040612**

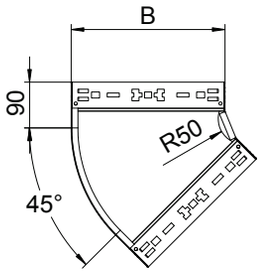
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Magic bend 0°–90°, variable, with quick connector system. For all cable tray types of 85 mm side height.

45° Magic bend





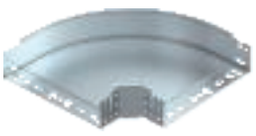
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBM 45 810 FS	100	1	60,600	**6041410**
RBM 45 820 FS	200	1	98,100	**6041412**
RBM 45 830 FS	300	1	142,300	**6041414**
RBM 45 840 FS	400	1	190,900	**6041416**
RBM 45 850 FS	500	1	250,700	**6041418**
RBM 45 860 FS	600	1	318,200	**6041420**
RBM 45 810 FT	100	1	65,000	**6041430**
RBM 45 820 FT	200	1	105,200	**6041432**
RBM 45 830 FT	300	1	152,600	**6041434**
RBM 45 840 FT	400	1	204,700	**6041436**
RBM 45 850 FT	500	1	268,800	**6041438**
RBM 45 860 FT	600	1	341,200	**6041440**

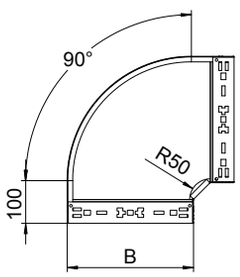
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

45° bend with quick connector system. For all cable tray types of 85 mm side height.

90° Magic bend





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBM 90 810 FS	100	1	78,500	**6041490**
RBM 90 820 FS	200	1	138,200	**6041492**
RBM 90 830 FS	300	1	213,300	**6041494**
RBM 90 840 FS	400	1	299,700	**6041496**
RBM 90 850 FS	500	1	405,300	**6041498**
RBM 90 860 FS	600	1	526,400	**6041500**
RBM 90 810 FT	100	1	84,200	**6041510**
RBM 90 820 FT	200	1	148,700	**6041512**
RBM 90 830 FT	300	1	228,700	**6041514**
RBM 90 840 FT	400	1	321,400	**6041516**
RBM 90 850 FT	500	1	434,600	**6041518**
RBM 90 860 FT	600	1	564,500	**6041520**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

90° bend with quick connector system. For all cable tray types of 85 mm side height.

Always indicate the item number when ordering.

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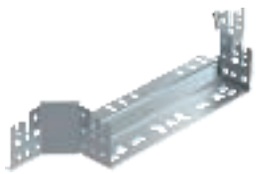
Magic add-on tee

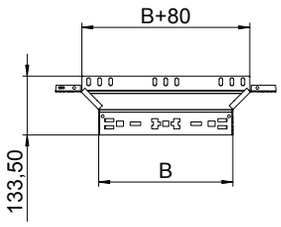
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RAAM 810 FS	100	1	45,700	**6041570**
RAAM 820 FS	200	1	58,400	**6041572**
RAAM 830 FS	300	1	71,300	**6041574**
RAAM 840 FS	400	1	84,300	**6041576**
RAAM 850 FS	500	1	97,100	**6041578**
RAAM 860 FS	600	1	110,500	**6041580**
RAAM 810 FT	100	1	49,000	**6041590**
RAAM 820 FT	200	1	62,600	**6041592**
RAAM 830 FT	300	1	76,500	**6041594**
RAAM 840 FT	400	1	90,400	**6041596**
RAAM 850 FT	500	1	104,100	**6041598**
RAAM 860 FT	600	1	118,500	**6041600**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Add-on tee with quick connector system. For all cable tray types of 85 mm side height.





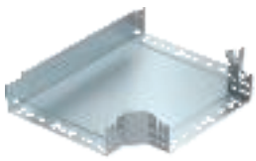
Magic tee

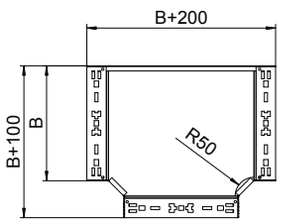
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RTM 810 FS	100	1	98,700	**6041660**
RTM 820 FS	200	1	168,200	**6041662**
RTM 830 FS	300	1	255,800	**6041664**
RTM 840 FS	400	1	358,100	**6041666**
RTM 850 FS	500	1	485,400	**6041668**
RTM 860 FS	600	1	632,400	**6041670**
RTM 810 FT	100	1	105,800	**6041680**
RTM 820 FT	200	1	180,400	**6041682**
RTM 830 FT	300	1	274,300	**6041684**
RTM 840 FT	400	1	384,000	**6041686**
RTM 850 FT	500	1	520,500	**6041688**
RTM 860 FT	600	1	678,200	**6041690**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Tee with quick connector system. For all cable tray types of 85 mm side height.





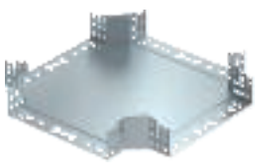
Magic cross-over

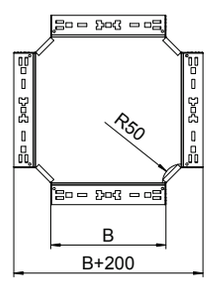
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RKM 810 FS	100	1	108,700	**7027081**
RKM 820 FS	200	1	176,300	**7027085**
RKM 830 FS	300	1	261,600	**7027087**
RKM 840 FS	400	1	358,900	**7027089**
RKM 850 FS	500	1	483,800	**7027091**
RKM 860 FS	600	1	628,400	**7027093**
RKM 810 FT	100	1	116,600	**7027101**
RKM 820 FT	200	1	189,100	**7027105**
RKM 830 FT	300	1	280,500	**7027107**
RKM 840 FT	400	1	384,900	**7027109**
RKM 850 FT	500	1	518,900	**7027111**
RKM 860 FT	600	1	673,900	**7027113**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Cross-over with quick connector system. For all cable tray types of 85 mm side height.



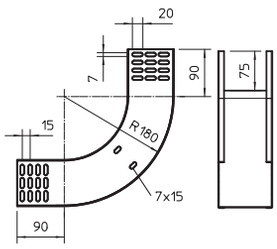


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Always indicate the item number when ordering.

90° vertical bend, rising





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 810 S FS	100	1	97,100	**7007230**
RBV 820 S FS	200	1	132,600	**7007234**
RBV 830 S FS	300	1	156,200	**7007238**
RBV 840 S FS	400	1	179,900	**7007242**
RBV 850 S FS	500	1	203,500	**7007246**
RBV 860 S FS	600	1	227,100	**7007250**
RBV 810 S FT	100	1	97,100	**7007231**
RBV 820 S FT	200	1	132,600	**7007235**
RBV 830 S FT	300	1	156,200	**7007239**
RBV 840 S FT	400	1	179,900	**7007243**
RBV 850 S FT	500	1	203,500	**7007247**
RBV 860 S FT	600	1	227,100	**7007251**

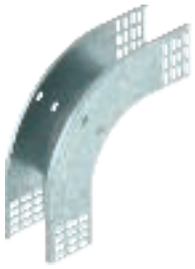
St Steel /pc.

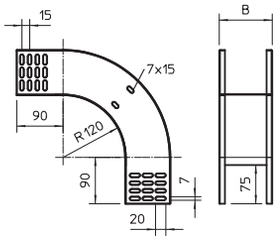
FS Strip-galvanised FT Hot-dip galvanised

90° rising vertical bend, for all cable tray types of 85 mm side height.

The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

90° vertical bend, falling





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 810 F FS	100	1	86,600	**7007270**
RBV 820 F FS	200	1	104,200	**7007274**
RBV 830 F FS	300	1	121,800	**7007278**
RBV 840 F FS	400	1	139,500	**7007282**
RBV 850 F FS	500	1	157,100	**7007286**
RBV 860 F FS	600	1	174,700	**7007290**
RBV 810 F FT	100	1	86,600	**7007271**
RBV 820 F FT	200	1	104,200	**7007275**
RBV 830 F FT	300	1	121,800	**7007279**
RBV 840 F FT	400	1	139,500	**7007283**
RBV 850 F FT	500	1	157,100	**7007287**
RBV 860 F FT	600	1	174,700	**7007291**

St Steel /pc.

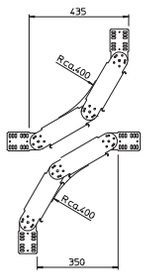
FS Strip-galvanised FT Hot-dip galvanised

90° vertical bend, falling, for all cable tray types of 85 mm side height.

The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

90° adjustable vertical bend





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGBV 810 FS	100	1	226,000	**7006462**
RGBV 820 FS	200	1	273,000	**7006489**
RGBV 830 FS	300	1	320,000	**7006500**
RGBV 840 FS	400	1	366,000	**7006527**
RGBV 850 FS	500	1	449,000	**7006543**
RGBV 860 FS	600	1	503,000	**7006578**
RGBV 810 FT	100	1	260,000	**7080107**
RGBV 820 FT	200	1	325,000	**7080204**
RGBV 830 FT	300	1	380,000	**7080301**
RGBV 840 FT	400	1	434,700	**7080409**
RGBV 850 FT	500	1	488,200	**7080506**
RGBV 860 FT	600	1	549,700	**7080603**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

90° adjustable vertical bend, for all cable tray types with a side height of 85 mm.

The bend is shipped in an unmounted state. No additional fastening materials are required.

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Adjustable vertical bend element

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGBEV 810 FS	100	1	70,000	**7005466**
RGBEV 820 FS	200	1	91,900	**7005482**
RGBEV 830 FS	300	1	112,400	**7005504**
RGBEV 840 FS	400	1	132,700	**7005520**
RGBEV 850 FS	500	1	153,100	**7005547**
RGBEV 860 FS	600	1	173,400	**7005563**
RGBEV 810 FT	100	1	70,100	**7076096**
RGBEV 820 FT	200	1	98,500	**7076207**
RGBEV 830 FT	300	1	120,500	**7076304**
RGBEV 840 FT	400	1	142,300	**7076401**
RGBEV 850 FT	500	1	164,100	**7076509**
RGBEV 860 FT	600	1	185,900	**7076606**

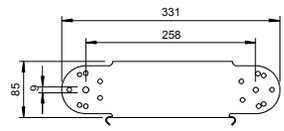
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Adjustable vertical bend element, for all cable tray types with a side height of 85 mm.

RGV 85 adjustable connectors should be ordered separately and in the appropriate quantity.

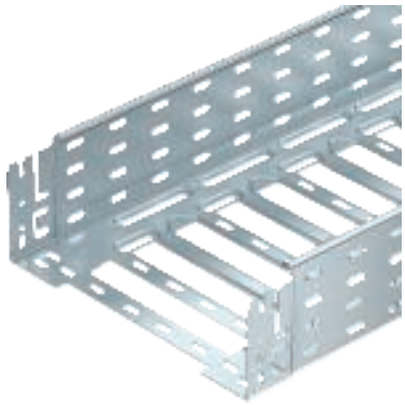




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Always indicate the item number when ordering.

Cable tray MKS-Magic®



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKSM 110 FS	100	1	3	235,400	**6059156**
MKSM 115 FS	150	1	3	271,500	**6059158**
MKSM 120 FS	200	1	3	289,830	**6059160**
MKSM 130 FS	300	1	3	327,210	**6059162**
MKSM 140 FS	400	1	3	364,590	**6059164**
MKSM 150 FS	500	1	3	401,960	**6059166**
MKSM 160 FS	600	1	3	406,550	**6059168**
MKSM 110 FT	100	1	3	256,700	**6059173**
MKSM 115 FT	150	1	3	296,000	**6059175**
MKSM 120 FT	200	1	3	316,000	**6059177**
MKSM 130 FT	300	1	3	356,720	**6059179**
MKSM 140 FT	400	1	3	397,700	**6059181**
MKSM 150 FT	500	1	3	438,360	**6059183**
MKSM 160 FT	600	1	3	479,000	**6059185**

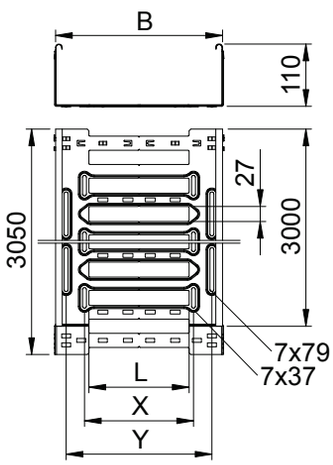
St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

MKSM 110 = medium-duty Magic cable tray system with a side height of 110 mm.

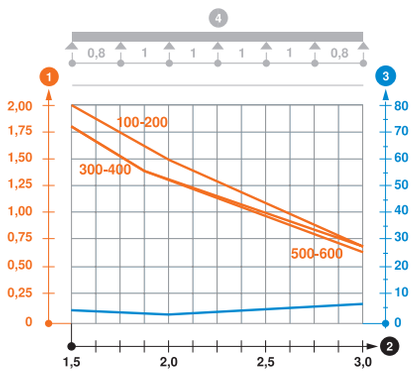
Cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation, with beaded straight base perforation, 7 x 79 mm, for bracket mounting. All widths with cross beading for stabilisation and duct ventilation. Continuous side perforation, 7 x 20 mm, as additional connector perforation. From a cable tray width of 200 mm, they are suitable for use under sprinkler systems according to VdS guideline 2092 permeable cable tray system with 30% hole surface. The stock length is 3050 mm, the usable length when combined is 3000 mm. The spring element FED 60 can be ordered separately as an accessory part (spare) for the Magic cable trays of side height 60 mm, 85 mm and 110 mm under the article number 6068859. Continuous equipotential bonding is guaranteed without additional components. VDE-tested cable tray system.

Dimensions



Type	Length mm	Width mm	Useful cross-section cm²	Dimension x mm	Dimension y mm
MKSM 110 FS	3050	100	108	—	62
MKSM 115 FS	3050	150	161	46	112
MKSM 120 FS	3050	200	218	96	162
MKSM 130 FS	3050	300	328	196	262
MKSM 140 FS	3050	400	438	296	362
MKSM 150 FS	3050	500	548	396	462
MKSM 160 FS	3050	600	655	496	562

Load



Type	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
MKSM 110 FS	2	1.5	0.7
MKSM 115 FS	2	1.5	0.7
MKSM 120 FS	2	1.5	0.7
MKSM 130 FS	1.8	1.3	0.7
MKSM 140 FS	1.8	1.3	0.7
MKSM 150 FS	1.8	1.3	0.65
MKSM 160 FS	1.8	1.3	0.65

Load diagram, cable tray, type MKSM 110

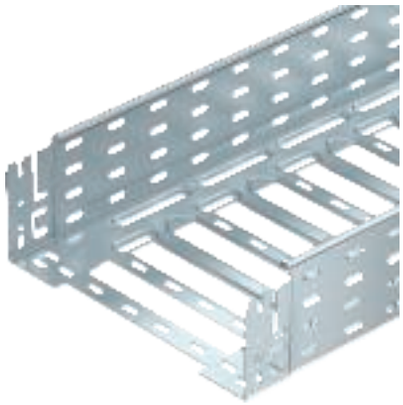
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

Cable tray SKS-Magic®



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
SKSM 110 FS	100	1.5	3	353,110	**6059614**
SKSM 115 FS	150	1.5	3	407,210	**6059616**
SKSM 120 FS	200	1.5	3	434,750	**6059618**
SKSM 130 FS	300	1.5	3	490,810	**6059620**
SKSM 140 FS	400	1.5	3	546,880	**6059622**
SKSM 150 FS	500	1.5	3	602,950	**6059624**
SKSM 160 FS	600	1.5	3	659,000	**6059626**
SKSM 110 FT	100	1.5	3	374,420	**6059631**
SKSM 115 FT	150	1.5	3	431,800	**6059633**
SKSM 120 FT	200	1.5	3	460,980	**6059635**
SKSM 130 FT	300	1.5	3	520,320	**6059637**
SKSM 140 FT	400	1.5	3	580,000	**6059639**
SKSM 150 FT	500	1.5	3	639,340	**6059641**
SKSM 160 FT	600	1.5	3	698,680	**6059643**

St Steel /m

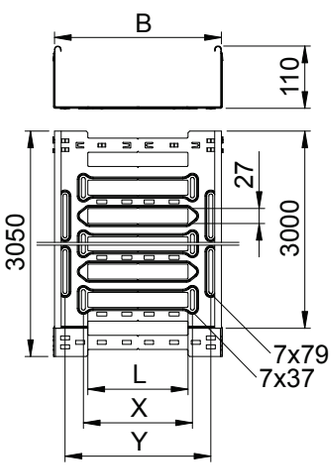
FS Strip-galvanised FT Hot-dip galvanised

SKSM 110 = Heavy-duty Magic cable tray system with 110 mm side height.

Cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation, with beaded straight base perforation, 7 x 79 mm, for bracket mounting. All widths with cross beading for stabilisation and duct ventilation. Continuous side perforation, 7 x 20 mm, as additional connector perforation. From a cable tray width of 200 mm, they are suitable for use under sprinkler systems according to VdS guideline 2092 permeable cable tray system with 30% hole surface. The stock length is 3050 mm, the usable length when combined is 3000 mm. The spring element FED 60 can be ordered separately as an accessory part (spare) for the Magic cable trays of side height 60 mm, 85 mm and 110 mm under the article number 6068859. Continuous equipotential bonding is guaranteed without additional components. VDE-tested cable tray system.

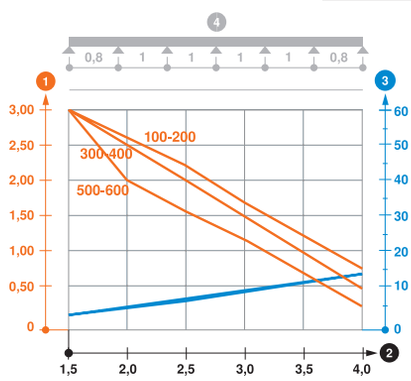
Dimensions

Type	Length mm	Width mm	Useful cross-section cm²	Dimension x mm	Dimension y mm
SKSM 110 FS	3050	100	108	—	62
SKSM 115 FS	3050	150	161	46	112
SKSM 120 FS	3050	200	218	96	162
SKSM 130 FS	3050	300	328	196	262
SKSM 140 FS	3050	400	438	296	362
SKSM 150 FS	3050	500	548	396	462
SKSM 160 FS	3050	600	655	496	562



Load

Type	1.5 m kN/m	3.0 m kN/m	4.0 m kN/m
SKSM 110 FS	3	1.7	0.8
SKSM 115 FS	3	1.7	0.8
SKSM 120 FS	3	1.7	0.8
SKSM 130 FS	3	1.5	0.5
SKSM 140 FS	3	1.5	0.5
SKSM 150 FS	3	1.2	0.3
SKSM 160 FS	3	1.2	0.3



Load diagram, cable tray, type SKSM 110

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

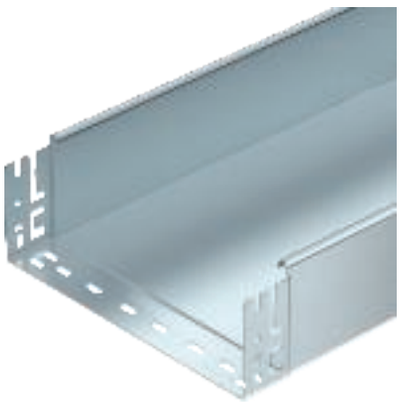
4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

Cable tray MKS-Magic®, unperforated



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKSMU 110 FS	100	1	3	269,500	**6059382**
MKSMU 115 FS	150	1	3	308,520	**6059384**
MKSMU 120 FS	200	1	3	347,860	**6059386**
MKSMU 130 FS	300	1	3	426,220	**6059388**
MKSMU 140 FS	400	1	3	504,900	**6059390**
MKSMU 150 FS	500	1	3	583,270	**6059392**
MKSMU 160 FS	600	1	3	661,600	**6059394**
MKSMU 110 FT	100	1	3	290,500	**6059399**
MKSMU 115 FT	150	1	3	336,390	**6059401**
MKSMU 120 FT	200	1	3	379,340	**6059403**
MKSMU 130 FT	300	1	3	464,900	**6059405**
MKSMU 140 FT	400	1	3	550,160	**6059407**
MKSMU 150 FT	500	1	3	636,000	**6059409**
MKSMU 160 FT	600	1	3	721,310	**6059411**

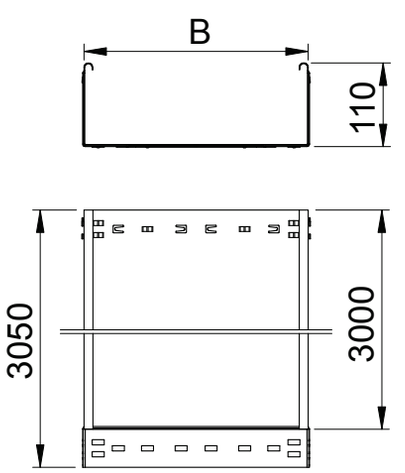
St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

MKSMU 110 = Medium duty Magic cable tray system, unperforated, with a side height of 110 mm.

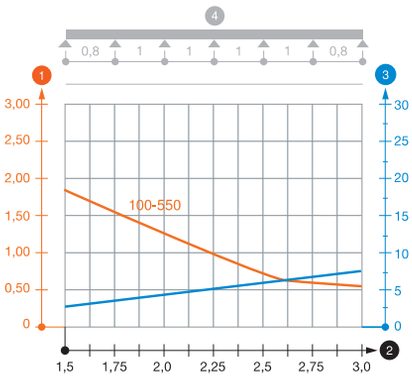
Unperforated cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation.
The stock length is 3,050 mm, the usable length when combined is 3,000 mm.
The spring element FED 60 can be ordered separately as an accessory part (spare) for the Magic cable trays with a side height of 60 mm, 85 mm and 110 mm under the article number 6068859.
The continuous equipotential bonding is guaranteed without additional components.
VDE-tested cable tray system.

Dimensions



Type	Length mm	Width mm	Useful cross-section cm²
MKSMU 110 FS	3050	100	108
MKSMU 115 FS	3050	150	161
MKSMU 120 FS	3050	200	218
MKSMU 130 FS	3050	300	328
MKSMU 140 FS	3050	400	438
MKSMU 150 FS	3050	500	548
MKSMU 160 FS	3050	600	655

Load



Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
MKSMU 110 FS	1.85	1.3	0.75	0.6
MKSMU 115 FS	1.85	1.3	0.75	0.6
MKSMU 120 FS	1.85	1.3	0.75	0.6
MKSMU 130 FS	1.85	1.3	0.75	0.6
MKSMU 140 FS	1.85	1.3	0.75	0.6
MKSMU 150 FS	1.85	1.3	0.75	0.6
MKSMU 160 FS	1.85	1.3	0.75	0.6

Load diagram, cable tray, type MKSMU 110

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

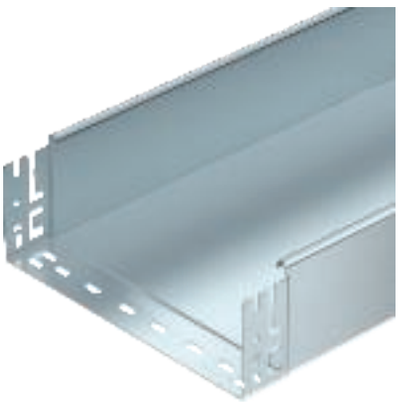
4 Load scheme during testing

Load curve with cable tray/ladder width in mm

Strut bend curve according to support width

Always indicate the item number when ordering.

Cable tray SKS-Magic®, unperforated



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
SKSMU 110 FS	100	1.5	3	403,930	**6059836**
SKSMU 115 FS	150	1.5	3	462,950	**6059838**
SKSMU 120 FS	200	1.5	3	521,640	**6059840**
SKSMU 130 FS	300	1.5	3	639,340	**6059842**
SKSMU 140 FS	400	1.5	3	757,040	**6059844**
SKSMU 150 FS	500	1.5	3	874,750	**6059846**
SKSMU 160 FS	600	1.5	3	992,450	**6059848**
SKSMU 110 FT	100	1.5	3	428,200	**6059853**
SKSMU 115 FT	150	1.5	3	490,820	**6059855**
SKSMU 120 FT	200	1.5	3	553,100	**6059857**
SKSMU 130 FT	300	1.5	3	678,000	**6059859**
SKSMU 140 FT	400	1.5	3	802,600	**6059861**
SKSMU 150 FT	500	1.5	3	827,540	**6059863**
SKSMU 160 FT	600	1.5	3	1.052,460	**6059865**

St Steel /m

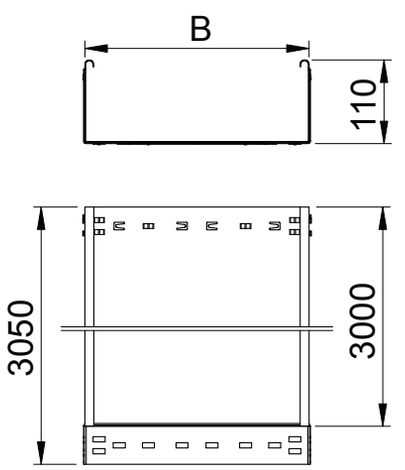
FS Strip-galvanised FT Hot-dip galvanised

SKSMU 110 = Heavy-duty Magic cable tray system, unperforated, with 110 mm side height.

Unperforated cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation.
The stock length is 3,050 mm, the usable length when combined is 3,000 mm.
The spring element FED 60 can be ordered separately as an accessory part (spare) for the Magic cable trays with a side height of 60 mm, 85 mm and 110 mm under the article number 6068859.
The continuous equipotential bonding is guaranteed without additional components.
VDE-tested cable tray system.

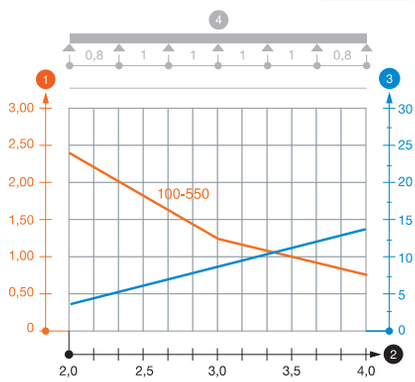
Dimensions

Type	Length mm	Width mm	Useful cross-section cm²
SKSMU 110 FS	3050	100	108
SKSMU 115 FS	3050	150	161
SKSMU 120 FS	3050	200	218
SKSMU 130 FS	3050	300	328
SKSMU 140 FS	3050	400	438
SKSMU 150 FS	3050	500	548
SKSMU 160 FS	3050	600	655



Load

Type	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
SKSMU 110 FS	3	2.4	1.2	0.8
SKSMU 115 FS	3	2.4	1.2	0.8
SKSMU 120 FS	3	2.4	1.2	0.8
SKSMU 130 FS	3	2.4	1.2	0.8
SKSMU 140 FS	3	2.4	1.2	0.8
SKSMU 150 FS	3	2.4	1.2	0.8
SKSMU 160 FS	3	2.4	1.2	0.8



Load diagram, cable tray, type SKSMU 110

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

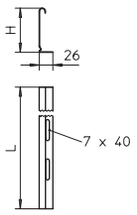
Load curve with cable tray/ladder width in mm

Strut bend curve according to support width

Always indicate the item number when ordering.

Barrier strip





Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 110 FS	110	3000	3	85,000	**6062122**
TSG 110 DD	110	3000	3	85,000	**6062335**

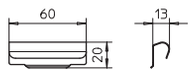
St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.

Barrier strip connector





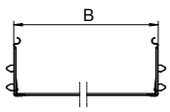
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**

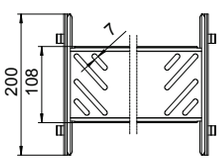
V2A Stainless steel, grade 301 /pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.

Magic straight connector set







Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KTSMV 110 FS	100	1	44,100	**6069090**
KTSMV 115 FS	150	1	48,500	**6069092**
KTSMV 120 FS	200	1	50,800	**6069094**
KTSMV 130 FS	300	1	57,600	**6069096**
KTSMV 140 FS	400	1	64,300	**6069098**
KTSMV 150 FS	500	1	71,000	**6069100**
KTSMV 160 FS	600	1	77,800	**6069102**
KTSMV 110 DD	100	1	44,100	**6069112**
KTSMV 115 DD	150	1	48,500	**6069114**
KTSMV 120 DD	200	1	50,800	**6069116**
KTSMV 130 DD	300	1	57,600	**6069118**
KTSMV 140 DD	400	1	64,300	**6069120**
KTSMV 150 DD	500	1	71,000	**6069122**
KTSMV 160 DD	600	1	77,800	**6069124**

St Steel /pc.

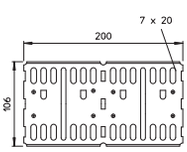
FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 110 mm.

The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

Straight and angle connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RLVL 110 FS	110	10	27,000	**6067131**
RLVL 110 FT	110	10	28,000	**6067913**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Straight and angle connector for cable trays and fittings with a side height of 110 mm.

Including appropriate fastening material.

Always indicate the item number when ordering.

04 KTS Masterkatalog Länder / en / 25/10/2016 (LLExport_04366) / 25/10/2016

Adjustable connector

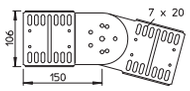
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGV 110 FS	110	10	64,000	**7082037**
RGV 110 FT	110	10	64,000	**7082436**

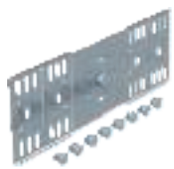
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Adjustable connector for cable trays with a side height of 110 mm.

Including appropriate fastening material.





Corner connector

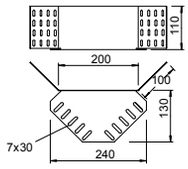
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
REV 110 FS	110	10	72,000	**6067999**
REV 110 DD	110	10	72,000	**6069339**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Corner connector for cable trays with side height 110 mm.

Fastening materials should be ordered separately.





Reducer / stop-end

Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWEB 110 FS	110	100	1	16,400	**7111096**
RWEB 115 FS	110	150	1	22,900	**7111201**
RWEB 120 FS	110	200	1	29,000	**7111207**
RWEB 130 FS	110	300	1	40,700	**7111304**
RWEB 140 FS	110	400	1	52,900	**7111428**
RWEB 150 FS	110	500	1	64,800	**7111509**
RWEB 160 FS	110	600	1	71,000	**7111740**
RWEB 110 DD	110	100	1	16,300	**7107455**
RWEB 120 DD	110	200	1	25,000	**7107471**
RWEB 130 DD	110	300	1	44,000	**7107501**
RWEB 140 DD	110	400	1	58,000	**7107536**
RWEB 150 DD	110	500	1	64,700	**7107552**
RWEB 160 DD	110	600	1	71,000	**7107562**

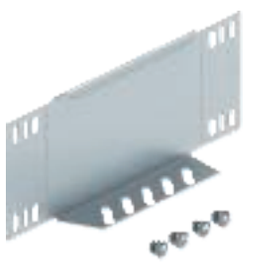
St Steel /pc.

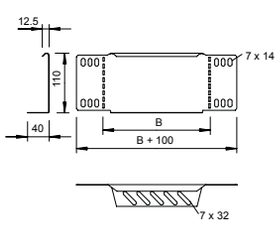
FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Reducer/stop-end for cable trays with side height 110 mm.

From a width of 150 mm, the perforated lower flange is provided.

Including appropriate fastening material.

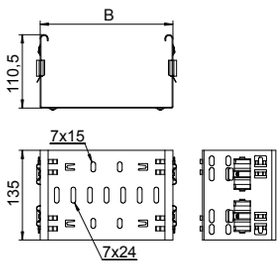




Always indicate the item number when ordering.

Magic straight connector





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FVM 110 DD	100	1	42,900	**6065910**
FVM 115 DD	150	1	48,900	**6065912**
FVM 120 DD	200	1	55,000	**6065914**
FVM 130 DD	300	1	67,700	**6065916**
FVM 140 DD	400	1	80,400	**6065918**
FVM 150 DD	500	1	92,600	**6065920**
FVM 160 DD	600	1	105,000	**6065922**

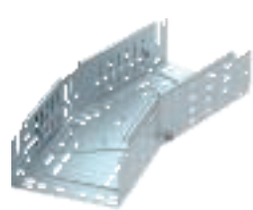
St Steel /pc.

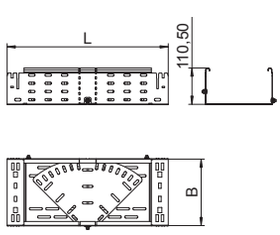
DD Strip galvanised zinc/aluminium, Double Dip

Magic straight connector for direct and screwless joining of Magic fittings with a side height of 110 mm.
The straight connector is equipped with four brackets and can also be used for the direct connection with a cut cable tray with only two brackets mounted to one side. To join a cut cable tray with a fitting, an additional Magic straight connector set is needed.

The fitting connect is compatible with cable tray types MKSM, MKSMU, SKSM and SKSMU.

Magic bend, variable





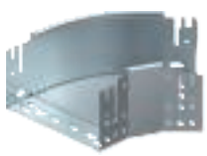
Type	Dim. L mm	Width mm	Dim. L mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBMV 110 FS	340	100	340	1	1	103,900	**6040680**
RBMV 115 FS	420	150	420	1	1	152,200	**6040682**
RBMV 120 FS	490	200	490	1	1	209,200	**6040684**
RBMV 130 FS	640	300	640	1.25	1	357,800	**6040686**
RBMV 140 FS	820	400	820	1.25	1	548,400	**6040688**
RBMV 150 FS	960	500	960	1.5	1	1.134,000	**6040690**
RBMV 160 FS	1120	600	1120	1.5	1	1.522,400	**6040692**
RBMV 110 FT	340	100	340	1	1	117,600	**6040700**
RBMV 115 FT	420	150	420	1	1	170,500	**6040702**
RBMV 120 FT	490	200	490	1	1	228,100	**6040704**
RBMV 130 FT	640	300	640	1.25	1	474,400	**6040706**
RBMV 140 FT	820	400	820	1.25	1	733,500	**6040708**
RBMV 150 FT	960	500	960	1.5	1	1.202,400	**6040710**
RBMV 160 FT	1120	600	1120	1.5	1	1.614,200	**6040712**

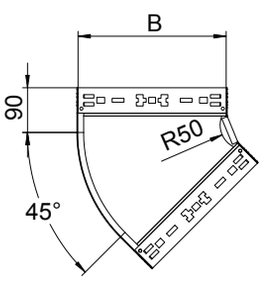
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Magic bend 0°–90°, variable, with quick connector system. For all cable tray types of 110 mm side height.

45° Magic bend





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBM 45 110 FS	100	1	70,500	**6041750**
RBM 45 115 FS	150	1	89,300	**6041751**
RBM 45 120 FS	200	1	109,900	**6041752**
RBM 45 130 FS	300	1	156,100	**6041754**
RBM 45 140 FS	400	1	206,500	**6041756**
RBM 45 150 FS	500	1	268,300	**6041758**
RBM 45 160 FS	600	1	337,700	**6041760**
RBM 45 110 FT	100	1	75,600	**6041780**
RBM 45 115 FT	150	1	95,800	**6041781**
RBM 45 120 FT	200	1	117,900	**6041782**
RBM 45 130 FT	300	1	167,400	**6041784**
RBM 45 140 FT	400	1	221,400	**6041786**
RBM 45 150 FT	500	1	287,700	**6041788**
RBM 45 160 FT	600	1	362,100	**6041790**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

45° bend with quick connector system. For all cable tray types of 110 mm side height.

Always indicate the item number when ordering.

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90° Magic bend

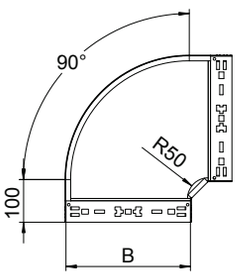
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBM 90 110 FS	100	1	90,900	**6041840**
RBM 90 115 FS	150	1	121,000	**6041841**
RBM 90 120 FS	200	1	154,900	**6041842**
RBM 90 130 FS	300	1	233,400	**6041844**
RBM 90 140 FS	400	1	323,600	**6041846**
RBM 90 150 FS	500	1	433,100	**6041848**
RBM 90 160 FS	600	1	558,000	**6041850**
RBM 90 110 FT	100	1	97,500	**6041860**
RBM 90 115 FT	150	1	129,800	**6041861**
RBM 90 120 FT	200	1	166,100	**6041862**
RBM 90 130 FT	300	1	250,300	**6041864**
RBM 90 140 FT	400	1	347,000	**6041866**
RBM 90 150 FT	500	1	464,400	**6041868**
RBM 90 160 FT	600	1	598,400	**6041870**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

90° bend with quick connector system. For all cable tray types of 110 mm side height.





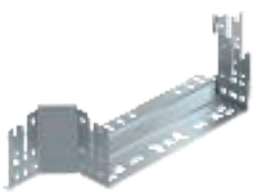
Magic add-on tee

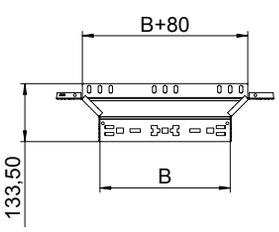
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RAAM 110 FS	100	1	53,700	**6041920**
RAAM 115 FS	150	1	60,000	**6041921**
RAAM 120 FS	200	1	66,300	**6041922**
RAAM 130 FS	300	1	79,200	**6041924**
RAAM 140 FS	400	1	92,200	**6041926**
RAAM 150 FS	500	1	105,100	**6041928**
RAAM 160 FS	600	1	118,400	**6041930**
RAAM 110 FT	100	1	57,600	**6041940**
RAAM 115 FT	150	1	64,300	**6041941**
RAAM 120 FT	200	1	71,100	**6041942**
RAAM 130 FT	300	1	84,900	**6041944**
RAAM 140 FT	400	1	98,900	**6041946**
RAAM 150 FT	500	1	112,700	**6041948**
RAAM 160 FT	600	1	127,000	**6041950**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Add-on tee with quick connector system. For all cable tray types of 110 mm side height.





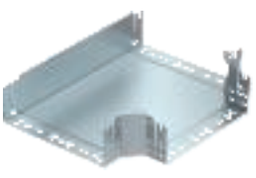
Magic tee

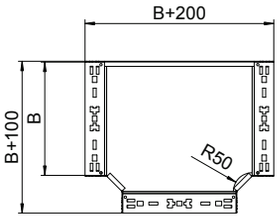
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RTM 110 FS	100	1	113,600	**6042010**
RTM 115 FS	150	1	147,200	**6042011**
RTM 120 FS	200	1	185,500	**6042012**
RTM 130 FS	300	1	275,600	**6042014**
RTM 140 FS	400	1	380,300	**6042018**
RTM 150 FS	500	1	510,100	**6042020**
RTM 160 FS	600	1	659,500	**6042022**
RTM 110 FT	100	1	121,800	**6042030**
RTM 115 FT	150	1	157,900	**6042032**
RTM 120 FT	200	1	198,900	**6042034**
RTM 130 FT	300	1	295,500	**6042036**
RTM 140 FT	400	1	407,800	**6042038**
RTM 150 FT	500	1	547,000	**6042040**
RTM 160 FT	600	1	707,200	**6042042**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Tee with quick connector system. For all cable tray types of 110 mm side height.

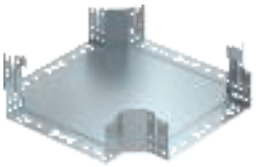


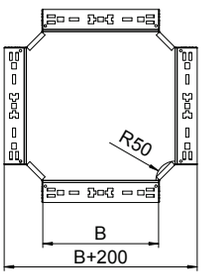


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Always indicate the item number when ordering.

Magic cross-over





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RKM 110 FS	100	1	124,700	**7027161**
RKM 115 FS	150	1	156,100	**7027163**
RKM 120 FS	200	1	192,300	**7027165**
RKM 130 FS	300	1	277,600	**7027167**
RKM 140 FS	400	1	374,800	**7027169**
RKM 150 FS	500	1	499,800	**7027171**
RKM 160 FS	600	1	644,300	**7027173**
RKM 110 FT	100	1	133,700	**7027181**
RKM 115 FT	110	1	167,400	**7027183**
RKM 120 FT	200	1	206,200	**7027185**
RKM 130 FT	300	1	297,700	**7027187**
RKM 140 FT	400	1	401,900	**7027189**
RKM 150 FT	500	1	536,000	**7027191**
RKM 160 FT	600	1	690,900	**7027193**

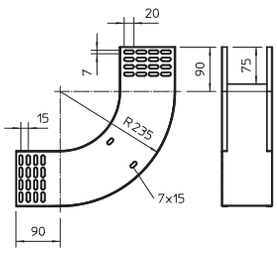
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Cross-over with quick connector system. For all cable tray types of 110 mm side height.

90° vertical bend, rising





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 110 S FS	100	1	120,100	**7007310**
RBV 115 S FS	150	1	135,000	**7007312**
RBV 120 S FS	200	1	151,300	**7007314**
RBV 130 S FS	300	1	182,400	**7007318**
RBV 140 S FS	400	1	213,600	**7007322**
RBV 150 S FS	500	1	244,800	**7007326**
RBV 160 S FS	600	1	274,000	**7007333**
RBV 110 S FT	100	1	120,000	**7007398**
RBV 115 S FT	150	1	147,000	**7007313**
RBV 120 S FT	200	1	163,000	**7007400**
RBV 130 S FT	300	1	182,400	**7007319**
RBV 140 S FT	400	1	231,000	**7007404**
RBV 150 S FT	500	1	244,800	**7007327**
RBV 160 S FT	600	1	299,000	**7007334**

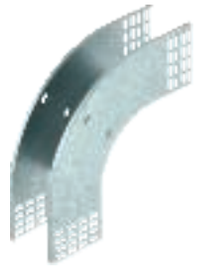
St Steel /pc.

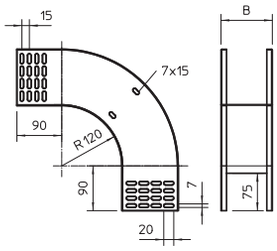
FS Strip-galvanised FT Hot-dip galvanised

90° rising vertical bend, for all cable tray types of 110 mm side height.

The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

90° vertical bend, falling





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 110 F FS	100	1	106,300	**7007350**
RBV 115 F FS	150	1	114,000	**7007352**
RBV 120 F FS	200	1	124,000	**7007354**
RBV 130 F FS	300	1	141,600	**7007358**
RBV 140 F FS	400	1	159,200	**7007362**
RBV 150 F FS	500	1	176,900	**7007366**
RBV 160 F FS	600	1	193,000	**7007373**
RBV 110 F FT	100	1	120,000	**7007468**
RBV 115 F FT	150	1	124,000	**7007353**
RBV 120 F FT	200	1	134,000	**7007470**
RBV 130 F FT	300	1	141,600	**7007359**
RBV 140 F FT	400	1	172,000	**7007474**
RBV 150 F FT	500	1	176,900	**7007367**
RBV 160 F FT	600	1	210,000	**7007374**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

90° vertical bend, falling, for all cable tray types of 110 mm side height.

The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

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90° adjustable vertical bend

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGBV 110 FS	100	1	304,800	**7006624**
RGBV 115 FS	150	1	392,000	**7006632**
RGBV 120 FS	200	1	351,000	**7006640**
RGBV 130 FS	300	1	398,000	**7006667**
RGBV 140 FS	400	1	530,000	**7006683**
RGBV 150 FS	500	1	527,500	**7006705**
RGBV 160 FS	600	1	630,000	**7006717**
RGBV 110 FT	100	1	363,000	**7081103**
RGBV 115 FT	150	1	392,000	**7081108**
RGBV 120 FT	200	1	420,000	**7081200**
RGBV 130 FT	300	1	578,300	**7081308**
RGBV 140 FT	400	1	530,000	**7081405**
RGBV 150 FT	500	1	580,000	**7081502**
RGBV 160 FT	600	1	630,000	**7081555**

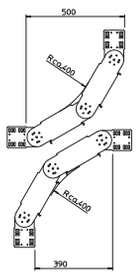
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

90° adjustable vertical bend, for all cable tray types with a side height of 110 mm.

The bend is shipped in an unmounted state. No additional fastening materials are required.





Adjustable vertical bend element

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGBEV 110 FS	100	1	101,100	**7005628**
RGBEV 115 FS	150	1	106,700	**7005636**
RGBEV 120 FS	200	1	119,600	**7005644**
RGBEV 130 FS	300	1	137,200	**7005660**
RGBEV 140 FS	400	1	157,500	**7005687**
RGBEV 150 FS	500	1	177,900	**7005709**
RGBEV 160 FS	600	1	175,000	**7005723**
RGBEV 110 FT	100	1	101,100	**7077106**
RGBEV 115 FT	150	1	114,300	**7077112**
RGBEV 120 FT	200	1	119,600	**7077203**
RGBEV 130 FT	300	1	147,100	**7077300**
RGBEV 140 FT	400	1	156,700	**7077408**
RGBEV 150 FT	500	1	193,600	**7077505**
RGBEV 160 FT	600	1	186,000	**7077972**

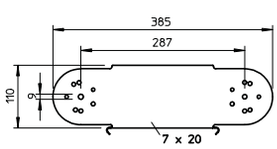
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Adjustable vertical bend element, for all cable tray types with a side height of 110 mm.

RGV 110 adjustable connectors should be ordered separately and in the appropriate quantity.



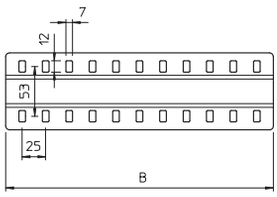


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Always indicate the item number when ordering.

Joint plate





Type	Width mm	Quantity of screws pc.	Pack. pcs	Weight kg/100 pcs.	Item No.
SSLB 100 FS	85	2	20	7,700	**7070205**
SSLB 150 FS	135	2	20	12,200	**7070209**
SSLB 200 FS	185	2	20	16,700	**7070213**
SSLB 300 FS	285	3	20	25,700	**7070217**
SSLB 400 FS	385	4	20	34,700	**7070221**
SSLB 500 FS	485	5	20	43,700	**7070225**
SSLB 600 FS	585	6	20	52,700	**7070233**
SSLB 100 DD	85	2	20	7,700	**7070306**
SSLB 150 DD	135	2	20	12,200	**7070310**
SSLB 200 DD	185	2	20	16,700	**7070314**
SSLB 300 DD	285	3	20	25,700	**7070318**
SSLB 400 DD	385	4	20	34,700	**7070322**
SSLB 500 DD	485	5	20	43,700	**7070326**
SSLB 600 DD	585	6	20	52,700	**7070334**

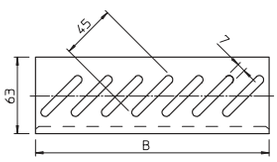
St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Wide joint plate for use in all cable trays and wide span cable trays.
Including appropriate fastening material.

Bottom end plate





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BEB 100 FS	100	100	5,400	**7083106**
BEB 150 FS	150	100	8,400	**7083157**
BEB 200 FS	200	100	11,400	**7083203**
BEB 300 FS	300	100	17,200	**7083300**
BEB 400 FS	400	100	23,100	**7083408**
BEB 500 FS	500	50	29,000	**7083505**
BEB 600 FS	600	50	35,000	**7083602**
BEB 100 DD	100	100	5,400	**7083618**
BEB 150 DD	150	100	8,400	**7083622**
BEB 200 DD	200	100	11,400	**7083626**
BEB 300 DD	300	100	17,200	**7083630**
BEB 400 DD	400	100	23,100	**7083634**
BEB 500 DD	500	50	29,000	**7083638**
BEB 600 DD	600	50	35,000	**7083642**

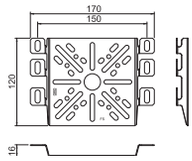
St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Bottom end plate for floor reinforcement at the ends of the cable tray and as cable protection.
For fastening, please order screws, type FRSB M6 x 12, separately.

Wall bracket / mounting plate





Type	Height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MP UNI FS	115	170	40	13,300	**7084773**
MP UNI DD	115	170	40	13,300	**7085114**

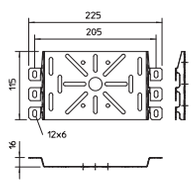
St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Mounting plate, for fastening on the side rail of cable support systems.
Please order the truss-head bolt, type FRSB 6 x 12, separately.

Wall bracket / mounting plate





Type	Height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MP 225 UNI FS	115	225	20	20,000	**7084870**

St Steel /pc.

FS Strip-galvanised

Mounting plate for universal use on side rails of cable trays and mesh cable trays.
Please order the truss-head bolt, type FRSB 6 x 12, separately.

Always indicate the item number when ordering.

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Wall bracket / mounting plate

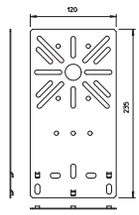
Type	Height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MP FL FS	235	120	40	19,200	**7084757**
MP FL DD	235	120	40	19,200	**7085108**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Flat mounting plate, for fastening on the side rail of the cable tray.

Please order the truss-head bolt, type FRSB 6 x 12, separately.





Wall bracket / mounting plate

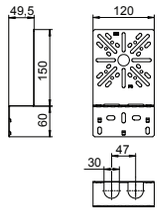
Type	Height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MP WI KL. FS	210	120	20	20,200	**7084765**
MP WI KL. DD	210	120	20	20,200	**7085111**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Angled mounting plate, for fastening on the side rail of the cable tray.

Please order the truss-head bolt, type FRSB 6 x 12, separately.





Wall bracket / mounting plate

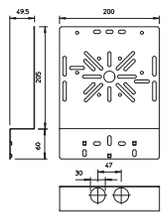
Type	Height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MP WI GR. FS	240	200	25	40,000	**7084781**
MP WI GR. DD	240	200	25	40,000	**7085112**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Angled mounting plate, for fastening on the side rail of the cable tray.

Please order the truss-head bolt, type FRSB 6 x 12, separately.





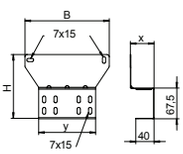
Mounting plate for FireBox T series

Type	Height mm	Dimension B mm	Dimension x mm	Dimension y mm	Suitable for junction box	Pack. pcs	Weight kg/100 pcs.	Item No.
MP T610	141	185	52	125	T100E...A	1	23,600	**7205480**
MP T616	159	220	63	165	T160E...A	1	34,500	**7205484**

St Steel /pc.

DD Strip galvanised zinc/aluminium, Double Dip

Mounting plate for the fastening of junction boxes of the FireBox T series (with external fastening) onto cable trays or cable ladders with a side height of 60 mm. The angled construction from sheet steel reinforced through crimps enables the secure mounting of function maintenance cables, without having to bend the cable over the side rail.
Including fastening material.



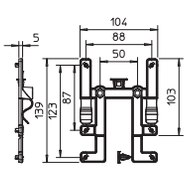


Fastening element for cable tray

Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
BE TS KR	10	10	2,800	**2007835**

PC Polycarbonate /100 pc.

The fastening element BE TS KR can be used to attach OBO junction boxes, type T60 and T100, to all standard cable trays in a few actions, quickly and without tools.
This keeps the junction box securely in position. However, it can be quickly dismantled as necessary. This is all done without using tools.

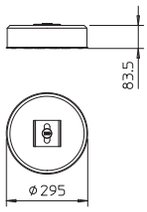




Always indicate the item number when ordering.

Tray fastening system set 10 kg with TrayFix large





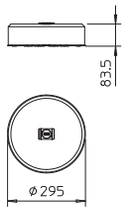
Type	From tray width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TrayFix-10-L	100	1	1.100,000	**5403101**

/pc.

• Mounting system for the fastening of mesh cable trays and cable trays on FangFix stone e.g. cable routing on a flat roof.
• Adapted to OBO cable tray systems MKSM, SKSM and IKSM
• Adapted to OBO mesh cable tray systems with a minimum width of 100 mm
• Set consisting of TrayFix mounting adapter and concrete block including base for FangFix-System 10 kg

Tray fastening system set 10 kg with TrayFix small





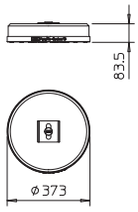
Type	From tray width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TrayFix-10-S	100	1	1.000,000	**5403102**

/pc.

• Mounting system for the fastening of mesh cable trays and cable trays on FangFix stone e.g. cable routing on a flat roof.
• Adapted to OBO mesh cable systems with a minimum width of 100 mm
• Set consisting of clamping piece, fastening plug and concrete block including base for FangFix-System 10 kg

Tray fastening system set 16 kg with TrayFix large





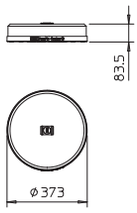
Type	From tray width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TrayFix-16-L	100	1	1.700,000	**5403098**

/pc.

• Mounting system for the fastening of mesh cable trays and cable trays on FangFix stone e.g. cable routing on a flat roof.
• Adapted to OBO cable tray systems MKSM, SKSM and IKSM
• Adapted to OBO mesh cable tray systems with a minimum width of 100 mm
• Set consisting of TrayFix mounting adapter and concrete block including base for FangFix-System 16 kg

Tray fastening system set 16 kg with TrayFix small





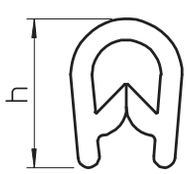
Type	From tray width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TrayFix-16-S	100	1	1.700,000	**5403099**

/pc.

• Mounting system for the fastening of mesh cable trays and cable trays on FangFix stone e.g. cable routing on a flat roof.
• Adapted to OBO mesh cable systems with a minimum width of 100 mm
• Set consisting of clamping piece, fastening plug and concrete block including base for FangFix-System 16 kg

Edge protection strip





Type	For plate thickness mm	Dim. h mm	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
KSB 2 PVC	0.75 - 2	10	Black	10000	10	8,000	**6072909**
KSB 4 PVC	1.5 - 4	15	Black	10000	10	14,000	**6072895**

PVC Polyvinylchloride

price/100 m

Edge protection strip with steel inlay to cover cut plate ends. Black, UV-resistant version.

Always indicate the item number when ordering.

Cover

Type	Width mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRLU 100 FS	100	0.75	3000	3	98,670	**6052103**
DRLU 150 FS	150	0.75	3000	3	138,000	**6052153**
DRLU 200 FS	200	1	3000	3	177,670	**6052210**
DRLU 300 FS	300	1	3000	3	255,670	**6052307**
DRLU 400 FS	400	1	3000	3	334,670	**6052405**
DRLU 500 FS	500	1.25	3000	3	619,500	**6052512**
DRLU 600 FS	600	1.25	3000	3	737,340	**6052609**
DRLU 100 DD	100	0.75	3000	3	89,000	**6052643**
DRLU 150 DD	150	0.75	3000	3	138,340	**6052647**
DRLU 200 DD	200	1	3000	3	177,670	**6052650**
DRLU 300 DD	300	1	3000	3	256,000	**6052656**
DRLU 400 DD	400	1	3000	3	334,470	**6052662**
DRLU 500 DD	500	1.25	3000	3	619,340	**6052668**
DRLU 600 DD	600	1.25	3000	3	737,270	**6052674**

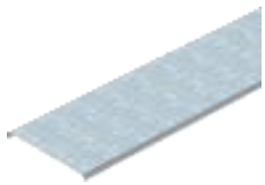
St Steel /m

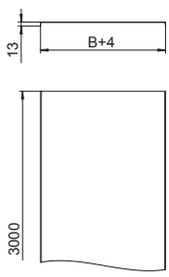
FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Cover for cable trays and mesh cable trays.

Transverse bead from 500 mm width.

When using covers outdoors, additional measures against the influence of wind must be taken. Cover clamps or- turn buckles on their own are not sufficient securing elements against wind loads.





Cover clamp, universal

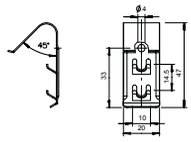
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DKU VA4310	20	0,800	**6065600**

V2A Stainless steel, grade 301 /100 pc.

Cover clamp for universal fastening of covers on cable trays, mesh cable trays and AZ channels.

Depending on the tray width, 4–6 cover clamps are required for secure fastening of a 3 m cover.

The cover clamp is not suitable for use with mesh cable trays with a side height of 35 mm.





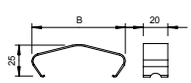
Cover clamp

Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DKL 35 VA4310	50.9	20	1,400	**6065503**
DKL 45 VA4310	60.9	20	1,600	**6065511**
DKL 60 VA4310	75.9	20	1,800	**6065538**
DKL 85 VA4310	95.9	20	2,100	**6065546**
DKL 110 VA4310	120.9	20	2,400	**6065554**

V2A Stainless steel, grade 301 /pc.

Cover clamp for secure fastening of covers on cable trays and cable ladders.

Cover clamp for additional fastening of the cover, e.g. in case of high wind load.

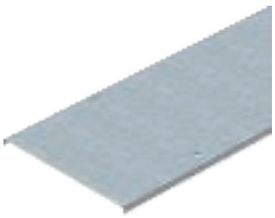


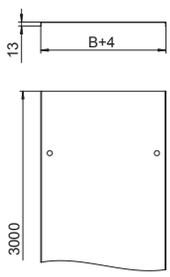


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Always indicate the item number when ordering.

Cover with turn buckle





Type	Width mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRL 100 FS	100	0.75	3000	3	101,670	**6052096**
DRL 150 FS	150	1	3000	3	141,000	**6052150**
DRL 200 FS	200	1	3000	3	180,000	**6052207**
DRL 300 FS	300	1	3000	3	259,270	**6052304**
DRL 400 FS	400	1	3000	3	337,670	**6052401**
DRL 500 FS	500	1.25	3000	3	622,340	**6052509**
DRL 600 FS	600	1.25	3000	3	740,340	**6052606**
DRL 100 DD	100	0.75	3000	3	101,670	**6052703**
DRL 150 DD	150	1	3000	3	141,000	**6052706**
DRL 200 DD	200	1	3000	3	180,000	**6052709**
DRL 300 DD	300	1	3000	3	259,000	**6052712**
DRL 400 DD	400	1	3000	3	337,670	**6052715**
DRL 500 DD	500	1.25	3000	3	622,340	**6052718**
DRL 600 DD	600	1.25	3000	3	740,340	**6052724**

St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

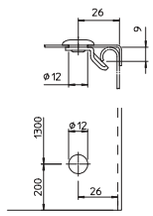
Cover for cable trays and cable ladders with three pairs of turn buckles.

Transverse bead from 500 mm width.

When using covers outdoors, additional measures against the influence of wind must be taken. Cover clamps or turn buckles on their own are not sufficient securing elements against wind loads.

Turn buckle





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DRL 311 FT	20	1,300	**6065007**

St Steel /pc.

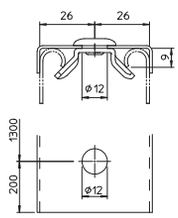
FT Hot-dip galvanised

Turn buckle for additional installation or installation at a later date.

Single-sided turn buckle. Use for cover widths of 100 – 600 mm.

Turn buckle





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DRL 311 2 FT	20	1,700	**6065147**

St Steel /pc.

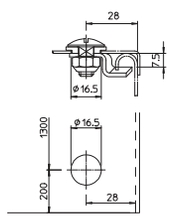
FT Hot-dip galvanised

Turn buckle for additional installation or installation at a later date.

Turn buckle on both sides. Use for cover width of 50 mm.

Turn buckle





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DRLM 316 DD	10	2,800	**6222366**

St Steel /pc.

DD Strip galvanised zinc/aluminium, Double Dip

Turn buckle for additional installation or installation at a later date.

Single-sided turn-buckle. Use for cover widths of 50 – 600 mm.

Always indicate the item number when ordering.

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Cover for 45° Magic bend

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFBM 45 100 FS	100	1.25	1	11,700	**7138360**
DFBM 45 150 FS	150	1.25	1	18,400	**7138362**
DFBM 45 200 FS	200	1.25	1	26,700	**7138364**
DFBM 45 300 FS	300	1.25	1	47,900	**7138366**
DFBM 45 400 FS	400	1.25	1	93,700	**7138368**
DFBM 45 500 FS	500	1.25	1	136,200	**7138370**
DFBM 45 600 FS	600	1.25	1	185,800	**7138372**
DFBM 45 100 DD	100	1.25	1	11,700	**7138400**
DFBM 45 150 DD	150	1.25	1	18,400	**7138402**
DFBM 45 200 DD	200	1.25	1	26,700	**7138404**
DFBM 45 300 DD	300	1.25	1	47,900	**7138406**
DFBM 45 400 DD	400	1.25	1	93,700	**7138408**
DFBM 45 500 DD	500	1.25	1	136,200	**7138410**
DFBM 45 600 DD	600	1.25	1	185,800	**7138412**

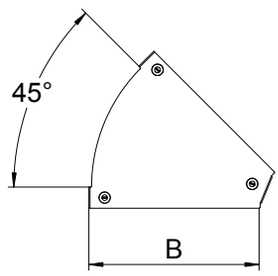
St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Cover for 45° bend with pre-mounted turn buckles.

The cover can be used with fittings of all side heights.





Cover for 90° Magic bend

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFBM 90 100 FS	100	1.25	1	17,100	**7138500**
DFBM 90 150 FS	150	1.25	1	28,500	**7138502**
DFBM 90 200 FS	200	1.25	1	43,000	**7138504**
DFBM 90 300 FS	300	1.25	1	81,600	**7138506**
DFBM 90 400 FS	400	1.25	1	165,000	**7138508**
DFBM 90 500 FS	500	1.25	1	244,100	**7138510**
DFBM 90 600 FS	600	1.25	1	338,100	**7138512**
DFBM 90 100 DD	100	1.25	1	17,100	**7138540**
DFBM 90 150 DD	150	1.25	1	28,500	**7138542**
DFBM 90 200 DD	200	1.25	1	43,000	**7138544**
DFBM 90 300 DD	300	1.25	1	81,600	**7138546**
DFBM 90 400 DD	400	1.25	1	165,000	**7138548**
DFBM 90 500 DD	500	1.25	1	244,100	**7138550**
DFBM 90 600 DD	600	1.25	1	338,100	**7138552**

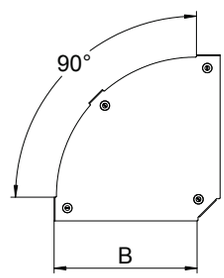
St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Cover for 90° bend with pre-mounted turn buckles.

The cover can be used with fittings of all side heights.





Cover for variable Magic bend

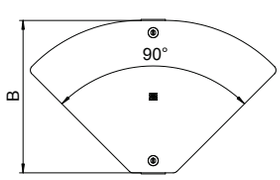
Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFBMV 100 FS	100	1	1	14,200	**6040760**
DFBMV 150 FS	150	1	1	24,900	**6040762**
DFBMV 200 FS	200	1	1	38,700	**6040764**
DFBMV 300 FS	300	1	1	75,500	**6040766**
DFBMV 400 FS	400	1.25	1	155,500	**6040768**
DFBMV 500 FS	500	1.25	1	232,300	**6040770**
DFBMV 600 FS	600	1.25	1	324,600	**6040772**
DFBMV 100 DD	100	1	1	14,200	**6040780**
DFBMV 200 DD	200	1	1	38,700	**6040784**
DFBMV 300 DD	300	1	1	75,500	**6040786**
DFBMV 400 DD	400	1.25	1	155,500	**6040788**
DFBMV 500 DD	500	1.25	1	232,300	**6040790**
DFBMV 600 DD	600	1.25	1	324,600	**6040792**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Cover for the variable bend, adjustable to an angle of 0 to 90°, locking through turn buckle and through overlapping with cable tray cover.

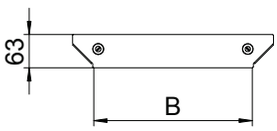




Always indicate the item number when ordering.

Cover for Magic add-on tee





Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFAAM 100 FS	100	1.25	1	9,700	**7138640**
DFAAM 150 FS	150	1.25	1	12,100	**7138642**
DFAAM 200 FS	200	1.25	1	13,300	**7138644**
DFAAM 300 FS	300	1.25	1	19,500	**7138646**
DFAAM 400 FS	400	1.25	1	30,300	**7138648**
DFAAM 500 FS	500	1.25	1	36,500	**7138650**
DFAAM 600 FS	600	1.25	1	42,700	**7138652**
DFAAM 100 DD	100	1.25	1	9,700	**7138680**
DFAAM 150 DD	150	1.25	1	12,100	**7138682**
DFAAM 200 DD	200	1.25	1	14,500	**7138684**
DFAAM 300 DD	300	1.25	1	19,500	**7138686**
DFAAM 400 DD	400	1.25	1	30,300	**7138688**
DFAAM 500 DD	500	1.25	1	36,500	**7138690**
DFAAM 600 DD	600	1.25	1	42,700	**7138692**

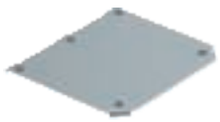
St Steel /pc.

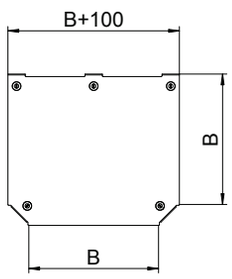
FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Cover for add-on tee with pre-mounted turn buckles.

The cover can be used with fittings of all side heights.

Cover for Magic tee





Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFTM 100 FS	100	1.25	1	29,600	**7138790**
DFTM 150 FS	150	1.25	1	38,900	**7138792**
DFTM 200 FS	200	1.25	1	58,300	**7138794**
DFTM 300 FS	300	1.25	1	109,200	**7138796**
DFTM 400 FS	400	1.25	1	218,900	**7138798**
DFTM 500 FS	500	1.25	1	321,300	**7138800**
DFTM 600 FS	600	1.25	1	443,200	**7138802**
DFTM 100 DD	100	1.25	1	29,600	**7138830**
DFTM 150 DD	150	1.25	1	38,900	**7138832**
DFTM 200 DD	200	1.25	1	58,300	**7138834**
DFTM 300 DD	300	1.25	1	109,200	**7138836**
DFTM 400 DD	400	1.25	1	218,900	**7138838**
DFTM 500 DD	500	1.25	1	321,300	**7138840**
DFTM 600 DD	600	1.25	1	443,200	**7138842**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Cover for tee with pre-mounted turn-buckle.

The cover can be used with fittings of all side heights.

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Always indicate the item number when ordering.

Cover for Magic cross-over

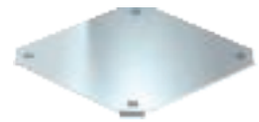
Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFKM 100 FS	100	1.25	1	29,600	**7138930**
DFKM 150 FS	150	1.25	1	47,100	**7138932**
DFKM 200 FS	200	1.25	1	68,500	**7138934**
DFKM 300 FS	300	1.25	1	123,100	**7138936**
DFKM 400 FS	400	1.25	1	241,500	**7138938**
DFKM 500 FS	500	1.25	1	349,100	**7138940**
DFKM 600 FS	600	1.25	1	476,200	**7138942**
DFKM 100 DD	100	1.25	1	29,600	**7138970**
DFKM 200 DD	200	1.25	1	68,500	**7138974**
DFKM 300 DD	300	1.25	1	123,100	**7138976**
DFKM 400 DD	400	1.25	1	241,500	**7138978**
DFKM 500 DD	500	1.25	1	349,100	**7138980**
DFKM 600 DD	600	1.25	1	476,200	**7138982**

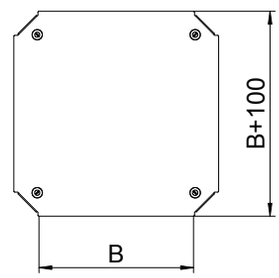
St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Cover for cross-over with pre-mounted turn-buckles.

The cover can be used with fittings of all side heights.





Cover for 90° vertical bend, falling

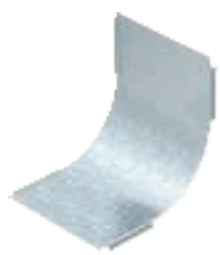
Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBV 100 S FS	100	0.75	1	21,000	**7130805**
DBV 150 S FS	150	0.75	1	30,000	**7130809**
DBV 200 S FS	200	0.75	1	39,000	**7130813**
DBV 300 S FS	300	0.75	1	49,000	**7130817**
DBV 400 S FS	400	0.75	1	68,000	**7130821**
DBV 500 S FS	500	0.75	1	86,000	**7130825**
DBV 600 S FS	600	0.75	1	105,000	**7130829**
DBV 100 S DD	100	0.75	1	34,000	**7131508**
DBV 150 S DD	150	0.75	1	50,000	**7131509**
DBV 200 S DD	200	0.75	1	66,000	**7131510**
DBV 300 S DD	300	0.75	1	81,000	**7131514**
DBV 400 S DD	400	0.75	1	113,000	**7131518**
DBV 500 S DD	500	0.75	1	144,000	**7131524**
DBV 600 S DD	600	0.75	1	176,000	**7131527**

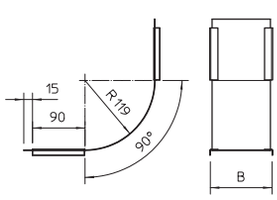
St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Cover for all rising vertical bends.

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.





Cover for 90° vertical bend, falling, side height 35

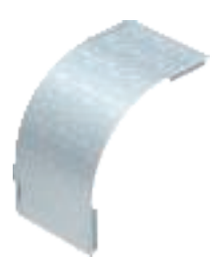
Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBV 35 100 F FS	100	0.75	1	23,000	**7130764**
DBV 35 200 F FS	200	0.75	1	45,000	**7130772**
DBV 35 300 F FS	300	0.75	1	67,000	**7130776**

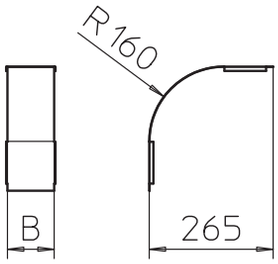
St Steel /pc.

FS Strip-galvanised

Cover for falling vertical bends of side height 35 mm.

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

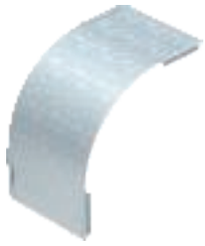


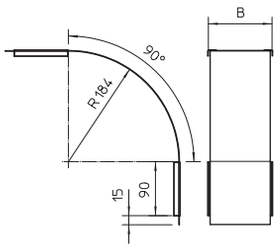


Always indicate the item number when ordering.

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Cover for 90° vertical bend, falling, side height 60





Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBV 60 100 F FS	100	0.75	1	25,000	**7130852**
DBV 60 150 F FS	150	0.75	1	37,000	**7130856**
DBV 60 200 F FS	200	0.75	1	49,000	**7130860**
DBV 60 300 F FS	300	0.75	1	73,000	**7130864**
DBV 60 400 F FS	400	0.75	1	96,000	**7130868**
DBV 60 500 F FS	500	0.75	1	120,000	**7130872**
DBV 60 600 F FS	600	0.75	1	143,000	**7130876**
DBV 60 100 F DD	100	0.75	1	42,000	**7131632**
DBV 60 150 F DD	150	0.75	1	62,000	**7131634**
DBV 60 200 F DD	200	0.75	1	82,000	**7131636**
DBV 60 300 F DD	300	0.75	1	122,000	**7131640**
DBV 60 400 F DD	400	0.75	1	160,000	**7131644**
DBV 60 500 F DD	500	0.75	1	200,000	**7131648**
DBV 60 600 F DD	600	0.75	1	238,000	**7131652**

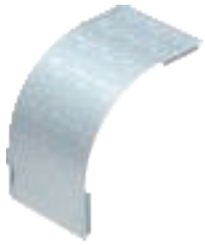
St Steel /pc.

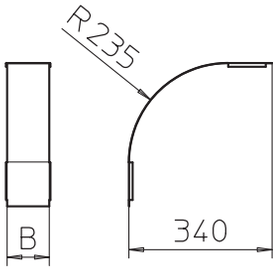
FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Cover for falling vertical bends of side height 60 mm.

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Cover for 90° vertical bend, falling, side height 85





Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBV 85 100 F FS	100	0.75	1	27,100	**7130990**
DBV 85 200 F FS	200	0.75	1	52,500	**7130994**
DBV 85 300 F FS	300	0.75	1	78,000	**7130998**
DBV 85 400 F FS	400	0.75	1	103,000	**7131002**
DBV 85 500 F FS	500	0.75	1	128,500	**7131006**
DBV 85 600 F FS	600	0.75	1	153,900	**7131010**
DBV 85 100 F DD	100	0.75	1	45,200	**7131672**
DBV 85 200 F DD	200	0.75	1	87,500	**7131676**
DBV 85 300 F DD	300	0.75	1	130,000	**7131680**
DBV 85 400 F DD	400	0.75	1	172,000	**7131684**
DBV 85 500 F DD	500	0.75	1	214,200	**7131688**
DBV 85 600 F DD	600	0.75	1	256,000	**7131692**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Cover for falling vertical bends of side height 85 mm.

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Always indicate the item number when ordering.

Cover for 90° vertical bend, falling, side height 110

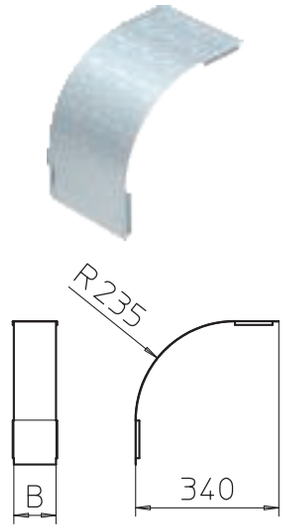
Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBV 110 100 F FS	100	0.75	1	29,000	**7131030**
DBV 110 150 F FS	150	0.75	1	42,600	**7131032**
DBV 110 200 F FS	200	0.75	1	56,200	**7131034**
DBV 110 300 F FS	300	0.75	1	83,400	**7131038**
DBV 110 400 F FS	400	0.75	1	110,600	**7131042**
DBV 110 500 F FS	500	0.75	1	137,800	**7131046**
DBV 110 600 F FS	600	0.75	1	165,000	**7131052**
DBV 110 100 F DD	100	0.75	1	48,300	**7131556**
DBV 110 150 F DD	150	0.75	1	71,000	**7131554**
DBV 110 200 F DD	200	0.75	1	93,700	**7131560**
DBV 110 300 F DD	300	0.75	1	139,000	**7131564**
DBV 110 400 F DD	400	0.75	1	184,300	**7131568**
DBV 110 500 F DD	500	0.75	1	229,700	**7131572**
DBV 110 600 F DD	600	0.75	1	275,000	**7131576**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Cover for falling vertical bends of side height 110 mm.

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.



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Always indicate the item number when ordering.

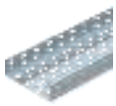
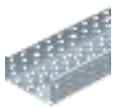
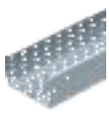


Cable tray systems

Always indicate the item number when ordering.

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Cable tray systems

	Side height 35 mm	308
	Side height 60 mm	314
	Side height 85 mm	330
	Side height 110 mm	338
	System accessories 35, 60, 85, 110	347
	Side height 200 mm	359

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Cable tray RKS



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
RKS 305 FS	50	0.75	3	78,000	**6047408**

St Steel /m

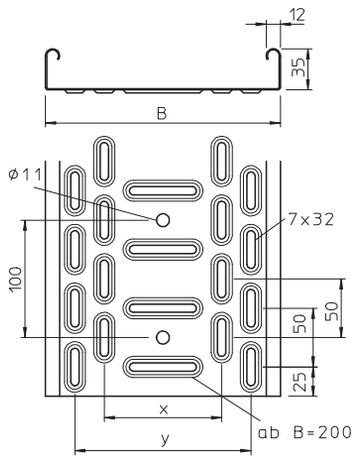
FS Strip-galvanised

Including RV 35 straight connector set.

RKS 35 = Rational cable tray system with 35 mm side height.

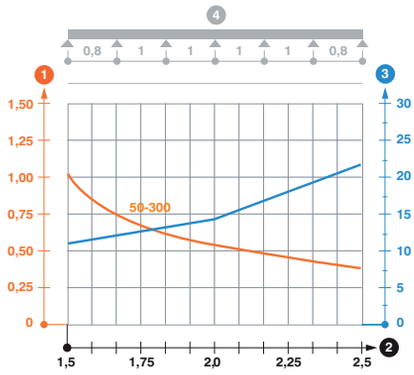
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Width mm	Useful cross-section cm^2	Dimension x mm	Dimension y mm
RKS 305 FS	3000	50	16	—	25

Load



Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
RKS 305 FS	1	0.5	0.35

Load diagram, cable tray, type RKS 35

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

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Cable tray MKS

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKS 305 FS	50	1	3	104,000	**6053513**
MKS 310 FS	100	1	3	131,670	**6053548**
MKS 315 FS	150	1	3	158,300	**6053572**
MKS 320 FS	200	1	3	199,200	**6053599**
MKS 330 FS	300	1	3	266,600	**6053637**
MKS 305 FT	50	1	3	113,340	**6053041**
MKS 310 FT	100	1	3	133,000	**6053106**
MKS 315 FT	150	1	3	165,000	**6053165**
MKS 320 FT	200	1	3	197,000	**6053203**
MKS 330 FT	300	1	3	269,000	**6053300**

St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

FS version includes RV 35 straight connector set.

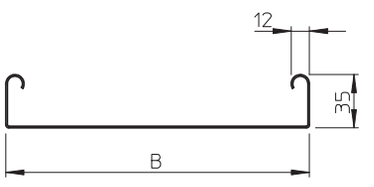
MKS 35 = Medium duty cable tray system with a side height of 35 mm.

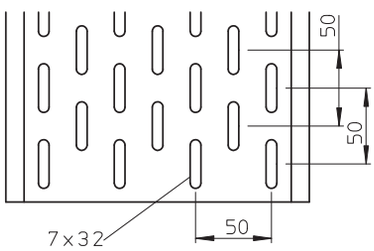
Magnetic shield insulation without cover 20 dB, with cover 50 dB.



Dimensions

Type	Length mm	Width mm	Useful cross-section cm²
MKS 305 FS	3000	50	16
MKS 310 FS	3000	100	33
MKS 315 FS	3000	150	50.5
MKS 320 FS	3000	200	68
MKS 330 FS	3000	300	103





Load

Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKS 305 FS	1.25	0.9	0.5
MKS 310 FS	1.25	0.9	0.5
MKS 315 FS	1.25	0.9	0.5
MKS 320 FS	1.25	0.9	0.5
MKS 330 FS	1.25	0.9	0.5

Load diagram, cable tray, type MKS 35

1 Permitted cable tray/ladder load in kN/m without man load

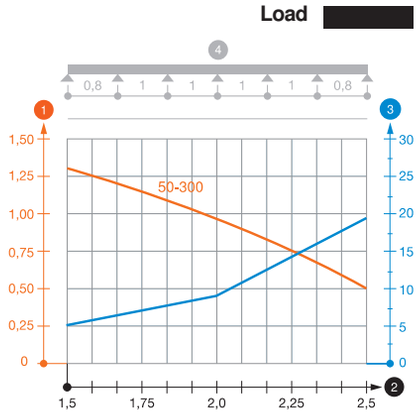
2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

Load curve with cable tray/ladder width in mm

Strut bend curve according to support width



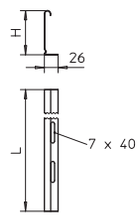
Barrier strip

Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 30 FS	30	3000	3	38,000	**6062050**
TSG 30 DD	30	3000	3	38,000	**6062314**

St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.



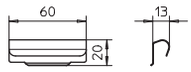


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Always indicate the item number when ordering.

Barrier strip connector





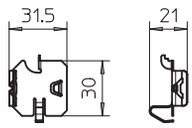
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**

V2A Stainless steel, grade 301 /pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.

Hold-down clamp for barrier strip fastening in RKSM





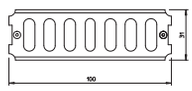
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KR VA4310	30	0,580	**6062280**

V2A Stainless steel, grade 301 /100 pc.

Hold-down clamp for screwless fastening of barrier strips in the cable tray types RKSM, MKS and SKS.

Straight connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RLVK 35 FS	35	10	5,100	**6067085**
RLVK 35 FT	35	10	5,100	**6067301**

St Steel /pc.

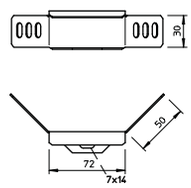
FS Strip-galvanised FT Hot-dip galvanised

Including appropriate fastening material.

Straight connector for connections of cable trays and fittings with a side height of 35 mm.

Straight and angle connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WKV 35 FS	35	5	6,800	**6043038**

St Steel /pc.

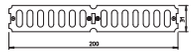
FS Strip-galvanised

Including appropriate fastening material.

Angle connector for cable trays with a side height of 35 mm.

Straight and angle connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWVL 35 FS	35	10	10,500	**6067107**
RWVL 35 FT	35	10	10,500	**6067328**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Including appropriate fastening material.

Straight and angle connector for cable trays and fittings with a side height of 35 mm.

Always indicate the item number when ordering.

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Adjustable connector

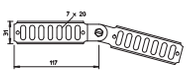
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGV 35 FS	35	10	11,000	**7082002**
RGV 35 FT	35	10	11,000	**7082126**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Including appropriate fastening material.

Adjustable connector for cable trays with a side height of 35 mm.





Corner connector

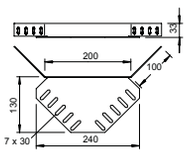
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
REV 35 FS	35	10	39,000	**6067956**
REV 35 DD	35	10	39,000	**6069304**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Fastening materials should be ordered separately.

Corner connector for cable trays with side height 35 mm.





Reducer / stop-end

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWEB 305 FS	50	1	4,200	**7108052**
RWEB 310 FS	100	1	7,400	**7108109**
RWEB 320 FS	200	1	12,300	**7108206**
RWEB 330 FS	300	1	18,300	**7108311**

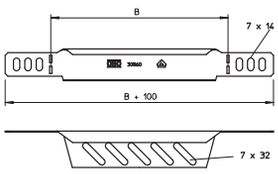
St Steel /pc.

FS Strip-galvanised

From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

Reducer/stop-end for cable trays with side height 35 mm.





45° bend

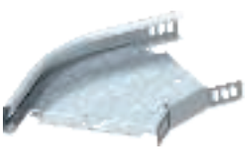
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 45 310 FS	100	1	40,000	**6043704**
RB 45 320 FS	200	1	60,000	**6043712**
RB 45 330 FS	300	1	90,000	**6043720**
RB 45 305 FT	50	1	38,000	**7065078**
RB 45 310 FT	100	1	43,000	**7065116**
RB 45 315 FT	150	1	55,000	**7065167**
RB 45 320 FT	200	1	65,000	**7065213**
RB 45 330 FT	300	1	97,000	**7065310**

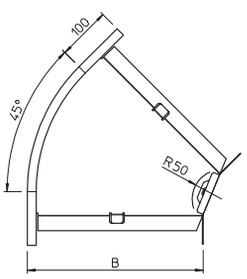
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

The WKV 35 angle connector is designed for 90° bends and can be adjusted to 45° on site. The fitting is shipped in an unmounted state.
Including appropriate fastening material.

45° bend, horizontal, for all cable tray types of 35 mm side height.

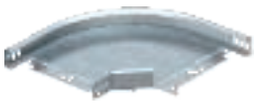




Always indicate the item number when ordering.

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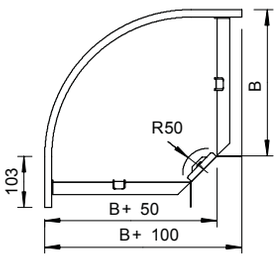
90° bend



Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 90 310 FS	100	1	31,100	**6043119**
RB 90 315 FS	150	1	65,000	**6043123**
RB 90 320 FS	200	1	64,300	**6043127**
RB 90 330 FS	300	1	112,300	**6043135**
RB 90 305 FT	50	1	83,000	**7124070**
RB 90 310 FT	100	1	48,000	**7124120**
RB 90 320 FT	200	1	98,000	**7124236**
RB 90 330 FT	300	1	150,000	**7124325**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised



The fitting is shipped in an unmounted state.
Including appropriate fastening material.
90° bend, horizontal, for all cable tray types of 35 mm side height.

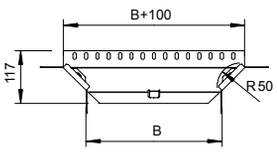
Add-on tee



Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RAA 305 FS	50	1	31,000	**6040314**
RAA 310 FS	100	1	30,000	**6040322**
RAA 320 FS	200	1	35,000	**6040349**
RAA 330 FS	300	1	50,000	**6040357**
RAA 305 FT	50	1	33,000	**7120060**
RAA 310 FT	100	1	33,000	**7120117**
RAA 315 FT	150	1	37,000	**7120140**
RAA 320 FT	200	1	38,000	**7120214**
RAA 330 FT	300	1	55,000	**7120311**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised



The fitting is shipped in an unmounted state.
Including appropriate fastening material.
Add-on tee for horizontal and vertical use. For all cable tray types of 35 mm side height.

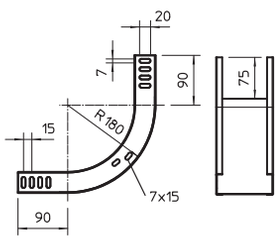
90° vertical bend, rising



Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 305 S FS	50	1	45,000	**7007170**
RBV 310 S FS	100	1	56,000	**7007174**
RBV 315 S FS	150	1	66,900	**7007178**
RBV 320 S FS	200	1	77,900	**7007182**
RBV 330 S FS	300	1	199,700	**7007186**
RBV 305 S FT	50	1	45,000	**7007172**
RBV 310 S FT	100	1	56,000	**7007176**
RBV 315 S FT	150	1	66,900	**7007180**
RBV 320 S FT	200	1	77,900	**7007184**
RBV 330 S FT	300	1	100,700	**7007188**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised



The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.
90° rising vertical bend, for all cable tray types of 35 mm side height.

Always indicate the item number when ordering.

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90° vertical bend, falling

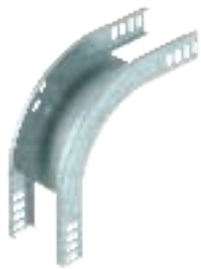
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 305 F FS	50	1	42,900	**7007200**
RBV 310 F FS	100	1	51,700	**7007204**
RBV 315 F FS	150	1	60,500	**7007208**
RBV 320 F FS	200	1	69,300	**7007212**
RBV 330 F FS	300	1	86,900	**7007216**
RBV 305 F FT	50	1	42,900	**7007202**
RBV 310 F FT	100	1	51,700	**7007206**
RBV 315 F FT	150	1	60,500	**7007210**
RBV 320 F FT	200	1	69,300	**7007214**
RBV 330 F FT	300	1	86,900	**7007218**

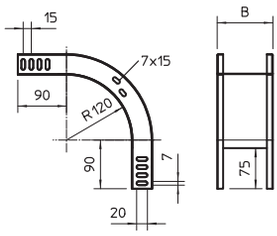
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

90° vertical bend, falling, for all cable tray types of 35 mm side height.

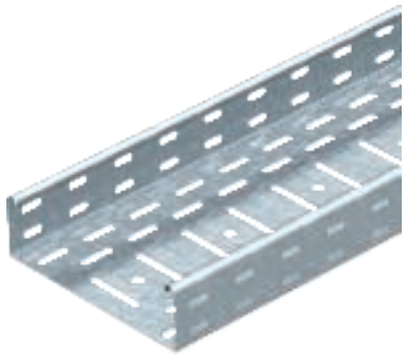




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Always indicate the item number when ordering.

Cable tray RKS 60



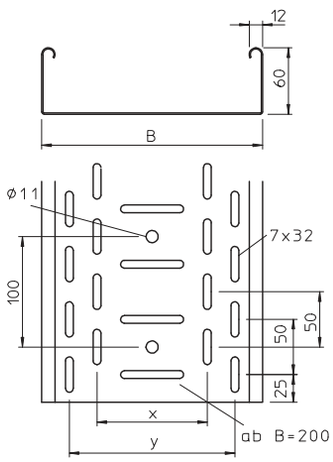
Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
RKS 605 FS	50	0.75	3	105,000	**6055885**
RKS 607 FS	75	0.75	3	118,940	**6055893**

St Steel /m

FS Strip-galvanised

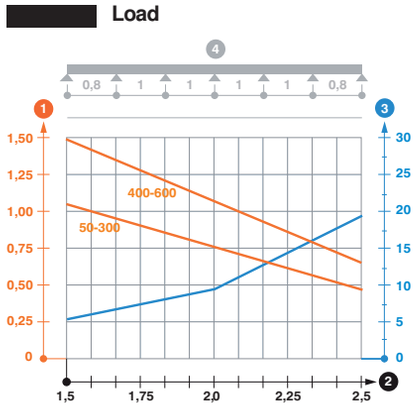
Including RV 60 longitudinal connector set.
The cable tray is fixed to the bracket with bolts, type FRS M6 x 12.
RKS 60 = Rational cable tray system with 60 mm side height (unbeaded base plate).
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Width mm	Useful cross-section cm^2
RKS 605 FS	3000	50	30
RKS 607 FS	3000	75	42

Load



Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
RKS 605 FS	1.1	0.75	0.4
RKS 607 FS	1.1	0.75	0.4

Load diagram, cable tray, type RKS 60, unbeaded

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

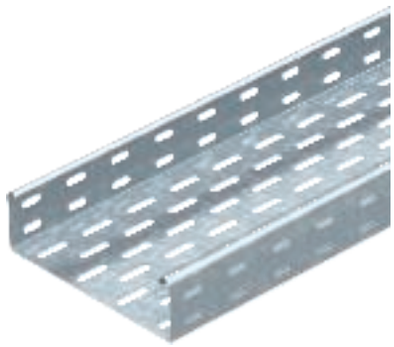
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

04 KTS Masterkatalog Länder / en / 25/10/2016 (LLExport_04366) / 25/10/2016

Cable tray MKS



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKS 605 FS	50	1	3	149,000	**6055052**
MKS 610 FS	100	1	3	173,000	**6055109**
MKS 615 FS	150	1	3	210,000	**6055141**
MKS 620 FS	200	1	3	238,600	**6055206**
MKS 630 FS	300	1	3	304,600	**6055303**
MKS 640 FS	400	1	3	368,000	**6055400**
MKS 650 FS	500	1	3	433,500	**6055508**
MKS 660 FS	600	1	3	498,000	**6055524**
MKS 605 FT	50	1	3	151,670	**6055516**
MKS 610 FT	100	1	3	190,100	**6055532**
MKS 615 FT	150	1	3	225,000	**6055559**
MKS 620 FT	200	1	3	261,000	**6055575**
MKS 630 FT	300	1	3	331,000	**6055613**
MKS 640 FT	400	1	3	402,000	**6055664**
MKS 650 FT	500	1	3	510,000	**6055699**
MKS 660 FT	600	1	3	545,670	**6055710**

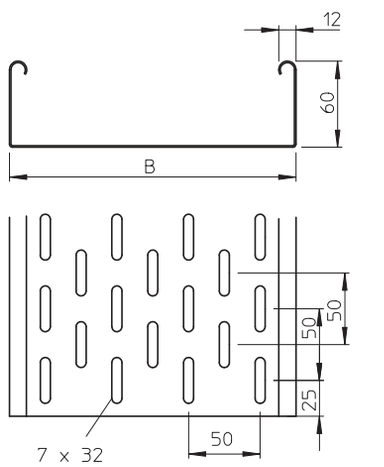
St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

MKS 60 = medium-duty cable tray system with a side height of 60 mm. FS version includes RV 60 straight connector set.

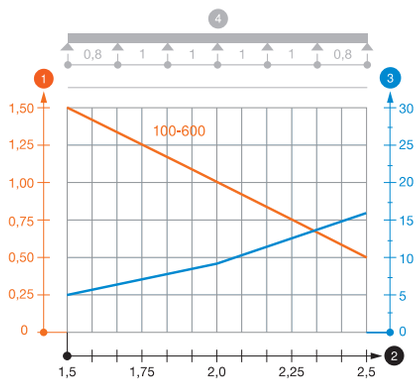
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Width mm	Useful cross-section cm²
MKS 605 FS	3000	50	28
MKS 610 FS	3000	100	58
MKS 615 FS	3000	150	88
MKS 620 FS	3000	200	118
MKS 630 FS	3000	300	178
MKS 640 FS	3000	400	238
MKS 650 FS	3000	500	298
MKS 660 FS	3000	600	358

Load



Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKS 605 FS	1.5	1	0.5
MKS 610 FS	1.5	1	0.5
MKS 615 FS	1.5	1	0.5
MKS 620 FS	1.5	1	0.5
MKS 630 FS	1.5	1	0.5
MKS 640 FS	1.5	1	0.5
MKS 650 FS	1.5	1	0.5
MKS 660 FS	1.5	1	0.5

Load diagram, cable tray, type MKS 60

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

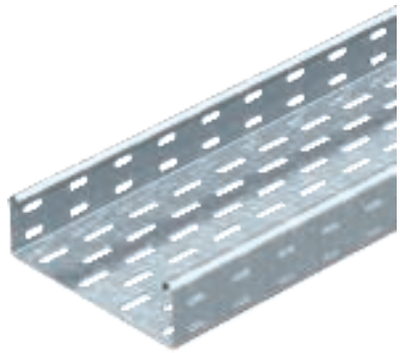
4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

Cable tray SKS



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
SKS 610 FS	100	1.5	3	239,400	**6056105**
SKS 615 FS	150	1.5	3	310,000	**6056156**
SKS 620 FS	200	1.5	3	364,000	**6056202**
SKS 630 FS	300	1.5	3	455,300	**6056296**
SKS 640 FS	400	1.5	3	522,000	**6056407**
SKS 650 FS	500	1.5	3	650,300	**6056504**
SKS 660 FS	600	1.5	3	749,300	**6056601**
SKS 605 FT	50	1.5	3	207,334	**6056632**
SKS 610 FT	100	1.5	3	274,300	**6056636**
SKS 615 FT	150	1.5	3	328,700	**6056644**
SKS 620 FT	200	1.5	3	380,000	**6056652**
SKS 630 FT	300	1.5	3	460,000	**6056679**
SKS 640 FT	400	1.5	3	566,700	**6056695**
SKS 650 FT	500	1.5	3	689,000	**6056717**
SKS 660 FT	600	1.5	3	794,300	**6056733**

St Steel /m

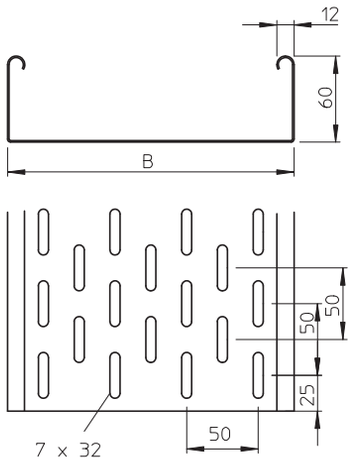
FS Strip-galvanised FT Hot-dip galvanised

The cable tray, type SKS, should also be used for function maintenance. For additional data, please refer to BSS fire protection systems.

SKS 60 = heavy-duty cable tray system with 60 mm side height. FS version includes RV 60 straight connector set.

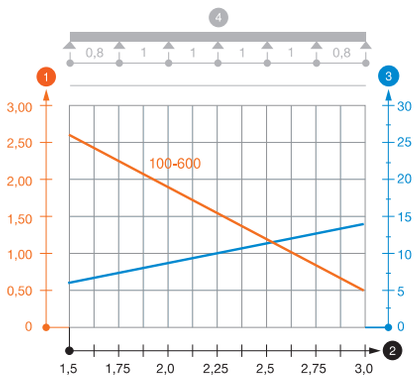
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Width mm	Useful cross-section cm²
SKS 610 FS	3000	100	58
SKS 615 FS	3000	150	88
SKS 620 FS	3000	200	118
SKS 630 FS	3000	300	178
SKS 640 FS	3000	400	238
SKS 650 FS	3000	500	298
SKS 660 FS	3000	600	358

Load



Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKS 610 FS	2.65	1.8	1.15	0.5
SKS 615 FS	2.65	1.8	1.15	0.5
SKS 620 FS	2.65	1.8	1.15	0.5
SKS 630 FS	2.65	1.8	1.15	0.5
SKS 640 FS	2.65	1.8	1.15	0.5
SKS 650 FS	2.65	1.8	1.15	0.5
SKS 660 FS	2.65	1.8	1.15	0.5

Load diagram, cable tray, type SKS 60

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

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Cable tray EKS

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
EKS 610 FS	100	2	3	350,000	**6056148**
EKS 620 FS	200	2	3	471,670	**6056229**
EKS 630 FS	300	2	3	608,000	**6056326**
EKS 640 FS	400	2	3	764,000	**6056423**
EKS 650 FS	500	2	3	861,000	**6056520**
EKS 660 FS	600	2	3	1.003,000	**6056628**
EKS 610 FT	100	2	3	356,670	**6056776**
EKS 620 FT	200	2	3	493,000	**6056792**
EKS 630 FT	300	2	3	629,340	**6056806**
EKS 640 FT	400	2	3	765,670	**6056970**
EKS 650 FT	500	2	3	902,000	**6056989**
EKS 660 FT	600	2	3	1.038,330	**6056997**

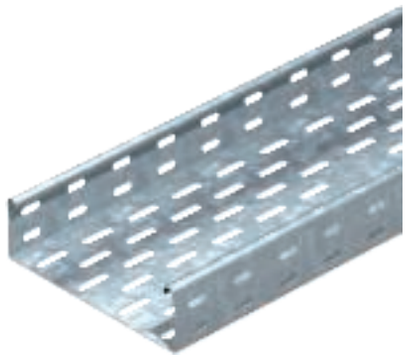
St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

Straight connectors should be ordered separately for all the versions.

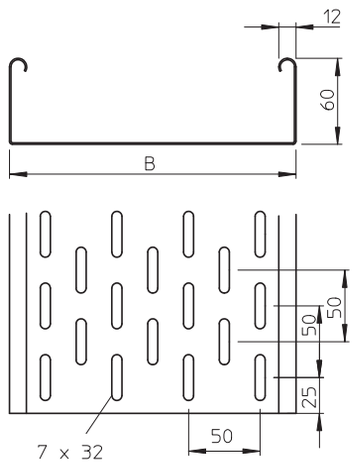
EKS 60 = extra-heavy cable tray system with 60 mm side height.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.



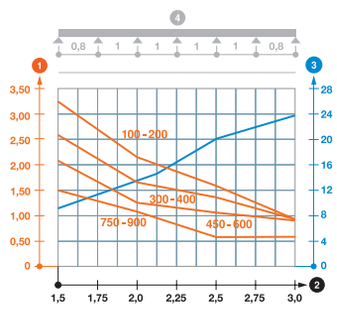
Dimensions

Type	Length mm	Width mm	Useful cross-section cm²
EKS 610 FS	3000	100	58
EKS 620 FS	3000	200	118
EKS 630 FS	3000	300	178
EKS 640 FS	3000	400	238
EKS 650 FS	3000	500	298
EKS 660 FS	3000	600	358



Load

Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
EKS 610 FS	3.3	2.2	1.6	0.95
EKS 620 FS	3.3	2.2	1.6	0.95
EKS 630 FS	2.6	1.7	1.4	0.95
EKS 640 FS	2.6	1.7	1.4	0.95
EKS 650 FS	2.1	1.35	1.15	0.9
EKS 660 FS	2.1	1.35	1.15	0.9



Load diagram, cable tray, type EKS 60

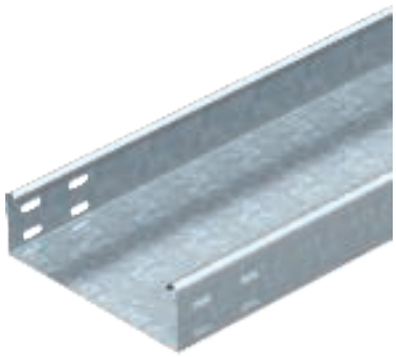
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

Cable tray MKSU



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKSU 610 FS	100	1	3	189,000	**6063160**
MKSU 615 FS	150	1	3	229,300	**6063179**
MKSU 620 FS	200	1	3	266,700	**6063187**
MKSU 630 FS	300	1	3	347,000	**6063209**
MKSU 640 FS	400	1	3	426,000	**6063225**
MKSU 610 FT	100	1	3	201,000	**6064302**
MKSU 615 FT	150	1	3	250,000	**6064319**
MKSU 620 FT	200	1	3	290,000	**6064345**
MKSU 630 FT	300	1	3	378,000	**6064396**
MKSU 640 FT	400	1	3	464,000	**6064426**

St Steel /m

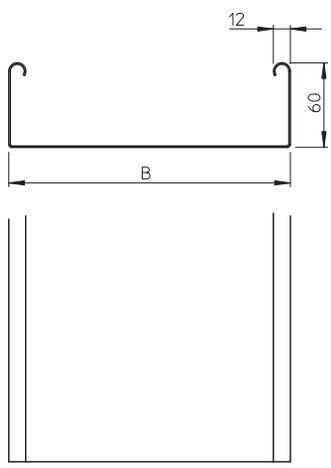
FS Strip-galvanised FT Hot-dip galvanised

The cable tray has connector perforations on both sides.

MKSU 60 = medium-duty cable tray system, unperforated, with a side height of 60 mm. Straight connectors should be ordered in the appropriate quantity.

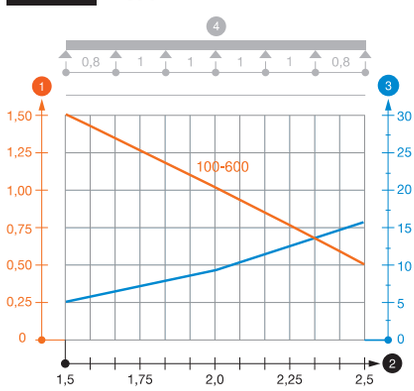
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Width mm	Useful cross-section cm²
MKSU 610 FS	3000	100	58
MKSU 615 FS	3000	150	88
MKSU 620 FS	3000	200	118
MKSU 630 FS	3000	300	178
MKSU 640 FS	3000	400	238

Load



Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSU 610 FS	1.5	1	0.5
MKSU 615 FS	1.5	1	0.5
MKSU 620 FS	1.5	1	0.5
MKSU 630 FS	1.5	1	0.5
MKSU 640 FS	1.5	1	0.5

Load diagram, cable tray, type MKSU 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

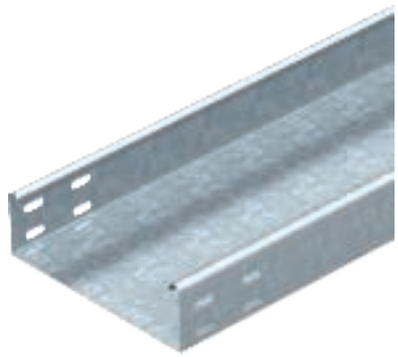
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Cable tray SKSU

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
SKSU 610 FS	100	1.5	3	286,000	**6063234**
SKSU 620 FS	200	1.5	3	400,000	**6063236**
SKSU 630 FS	300	1.5	3	516,000	**6063238**
SKSU 640 FS	400	1.5	3	639,000	**6063950**
SKSU 650 FS	500	1.5	3	756,700	**6063241**
SKSU 660 FS	600	1.5	3	877,000	**6063276**
SKSU 610 FT	100	1.5	3	303,000	**6064307**
SKSU 620 FT	200	1.5	3	427,300	**6064353**
SKSU 630 FT	300	1.5	3	555,000	**6064409**
SKSU 640 FT	400	1.5	3	687,000	**6064435**
SKSU 650 FT	500	1.5	3	802,000	**6064515**
SKSU 660 FT	600	1.5	3	929,700	**6064523**

St Steel /m

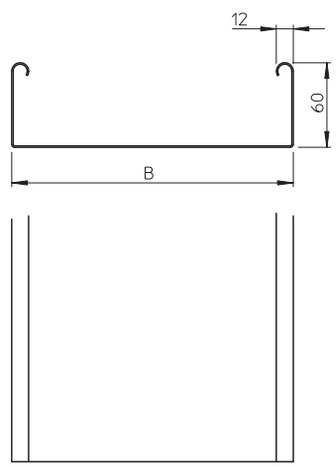
FS Strip-galvanised FT Hot-dip galvanised



The cable tray has connector perforations on both sides.
Straight connectors should be ordered separately and in the appropriate quantity.
SKS 60 = heavy-duty cable tray system, unperforated, with 60 mm side height.
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

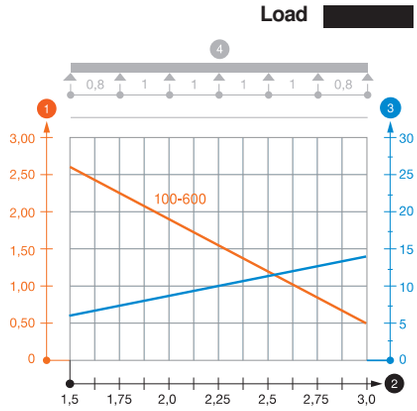
Dimensions

Type	Length mm	Width mm	Useful cross-section cm²
SKSU 610 FS	3000	100	58
SKSU 620 FS	3000	200	118
SKSU 630 FS	3000	300	178
SKSU 640 FS	3000	400	238
SKSU 650 FS	3000	500	298
SKSU 660 FS	3000	600	358



Load

Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKSU 610 FS	2.6	1.9	1.1	0.55
SKSU 620 FS	2.6	1.9	1.1	0.55
SKSU 630 FS	2.6	1.9	1.1	0.55
SKSU 640 FS	2.6	1.9	1.1	0.55
SKSU 650 FS	2.6	1.9	1.1	0.55
SKSU 660 FS	2.6	1.9	1.1	0.55



Load diagram, cable tray, type SKSU 60

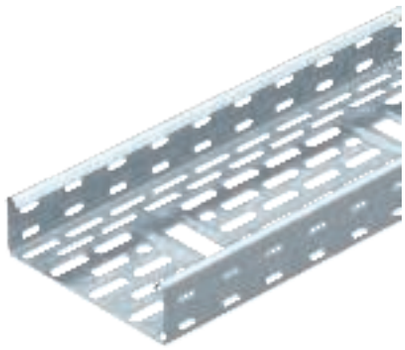
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

Cable tray DKS



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
DKS 610 FS	100	1	3	161,000	**6085016**
DKS 620 FS	200	1	3	217,670	**6085032**
DKS 630 FS	300	1	3	270,670	**6085059**
DKS 640 FS	400	1.5	3	493,340	**6085202**
DKS 650 FS	500	1.5	3	572,340	**6085229**
DKS 660 FS	600	1.5	3	651,340	**6085245**
DKS 610 FT	100	1	3	175,670	**6085326**
DKS 620 FT	200	1	3	237,340	**6085342**
DKS 630 FT	300	1	3	295,000	**6085369**
DKS 640 FT	400	1.5	3	523,000	**6085512**
DKS 650 FT	500	1.5	3	607,000	**6085539**
DKS 660 FT	600	1.5	3	690,670	**6085555**

St Steel /m

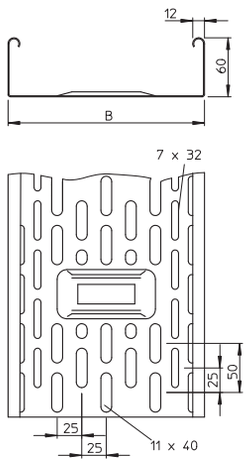
FS Strip-galvanised FT Hot-dip galvanised

Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.
Bottom penetration from width 200 mm.
Connecting parts should be ordered in the appropriate quantity.

DKS 60 = perforated cable tray system with 60 mm side height.

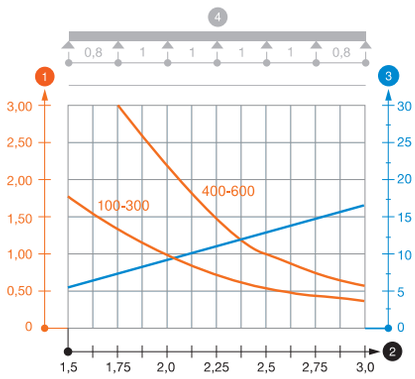
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Width mm	Useful cross-section cm²
DKS 610 FS	3000	100	58
DKS 620 FS	3000	200	118
DKS 630 FS	3000	300	178
DKS 640 FS	3000	400	238
DKS 650 FS	3000	500	298
DKS 660 FS	3000	600	358

Load



Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
DKS 610 FS	1.75	0.95	0.5	0.4
DKS 620 FS	1.75	0.95	0.5	0.4
DKS 630 FS	1.75	0.95	0.5	0.4
DKS 640 FS	3	2.25	1	0.65
DKS 650 FS	3	2.25	1	0.65
DKS 660 FS	3	2.25	1	0.65

Load diagram, cable tray, type DKS 60

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

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Cable tray IKS

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
IKS 610 FS	100	1	3	155,340	**6087116**
IKS 620 FS	200	1	3	212,000	**6087132**
IKS 630 FS	300	1	3	264,670	**6087140**
IKS 640 FS	400	1	3	485,340	**6087159**

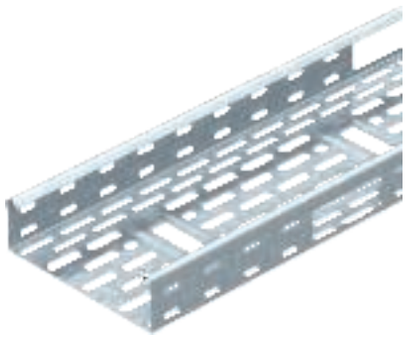
St Steel /m

FS Strip-galvanised

Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.
Bottom penetration from width 200 mm. Offset side holes every 300 mm.
Connecting parts should be ordered in the appropriate quantity.

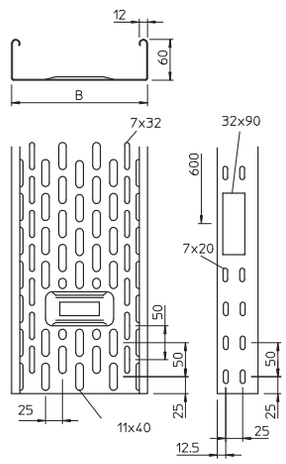
IKS 60 = installation cable tray system with 60 mm side height.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.



Dimensions

Type	Length mm	Width mm	Useful cross-section cm²
IKS 610 FS	3000	100	58
IKS 620 FS	3000	200	118
IKS 630 FS	3000	300	178
IKS 640 FS	3000	400	238



Load

Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
IKS 610 FS	1.17	0.75	0.4
IKS 620 FS	1.17	0.75	0.4
IKS 630 FS	1.17	0.75	0.4
IKS 640 FS	1.17	0.75	0.4

Load diagram, cable tray, type IKS 60

1 Permitted cable tray/ladder load in kN/m without man load

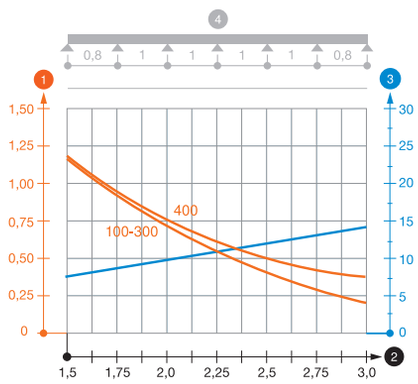
2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width



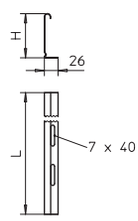
Barrier strip

Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 45 FS	45	3000	3	46,700	**6062033**
TSG 45 DD	45	3000	3	46,700	**6062321**

St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.



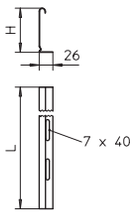


Always indicate the item number when ordering.

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Barrier strip





Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 60 FS	60	3000	3	55,700	**6062068**
TSG 60 DD	60	3000	3	55,700	**6062327**

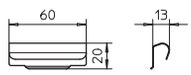
St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.

Barrier strip connector





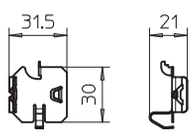
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**

V2A Stainless steel, grade 301 /pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.

Hold-down clamp for barrier strip fastening in RKSM





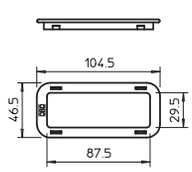
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KR VA4310	30	0,580	**6062280**

V2A Stainless steel, grade 301 /100 pc.

Hold-down clamp for screwless fastening of barrier strips in the cable tray types RKSM, MKS and SKS.

Cable protection ring





Type	Colour	For side perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-DR 920 PE	Light grey	32 x 90	25	0,640	**6087965**

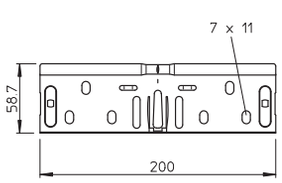
PE Polyethylene /pc.

Cable protection ring for side perforation in the side rails of the IKS cable tray.

Straight connector set



Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RV 605 FS	60	50	10	18,100	**6068146**
RV 607 FS	60	75	10	18,800	**6068150**
RV 610 FS	60	100	10	19,400	**6068154**
RV 615 FS	60	150	10	20,700	**6068162**
RV 620 FS	60	200	10	20,900	**6068170**
RV 630 FS	60	300	10	24,500	**6068189**
RV 640 FS	60	400	10	32,200	**6068197**
RV 650 FS	60	500	10	36,200	**6068200**
RV 660 FS	60	600	10	39,200	**6068219**



St Steel /pc.

FS Strip-galvanised

The continuous earthing connection is guaranteed without a screw connection.

Quick connector set for straight, screwless connections of cable trays and fittings with a side height of 60 mm.

Always indicate the item number when ordering.

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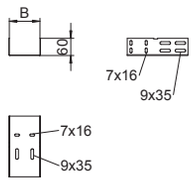
Expansion joint connector

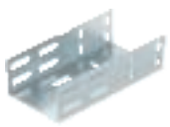
Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RDV 610 DD	60	100	1	57,900	**6065974**
RDV 620 DD	60	200	1	82,400	**6065976**
RDV 630 DD	60	300	1	105,000	**6065978**
RDV 640 DD	60	400	1	129,500	**6065980**
RDV 650 DD	60	500	1	152,100	**6065982**
RDV 660 DD	60	600	1	199,700	**6065984**

St Steel /pc.

DD Strip galvanised zinc/aluminium, Double Dip

Straight connector for compensation of linear thermal expansion.





Straight connector

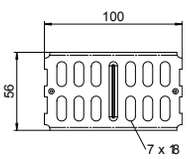
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RLVK 60 FS	60	10	9,200	**6067093**
RLVK 60 FT	60	10	10,700	**6067603**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Including appropriate fastening material.

Straight connector for straight connection of cable trays and fittings with a side height of 60 mm.





Straight and angle connector

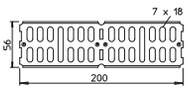
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWVL 60 FS	60	10	15,600	**6067115**
RWVL 60 FT	60	10	17,400	**6067611**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Including appropriate fastening material.

Straight and angle connector for cable trays and fittings with a side height of 60 mm.





Adjustable connector

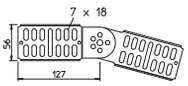
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGV 60 FS	60	10	24,000	**7082010**
RGV 60 FT	60	10	25,000	**7082223**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Including appropriate fastening material.

Adjustable connector for cable trays with a side height of 60 mm.





Straight connector, vertical

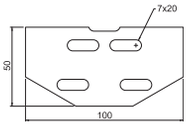
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RLVKV 60 FS	50	10	4,550	**6067101**

St Steel /pc.

FS Strip-galvanised

The screw fastening ensures the continuity of the equipotential bonding.

The vertical straight connector can be used to connect cable trays with the side height 60 mm. Mitre joints that rise and fall up to an angle of 60° can also be realised with this connector.

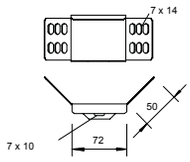




Always indicate the item number when ordering.

Straight and angle connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WKV 60 FS	60	5	13,000	**6043062**
WKV 60 FT	60	5	14,000	**6042910**

St Steel /pc.

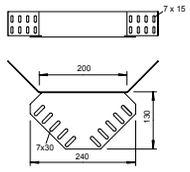
FS Strip-galvanised FT Hot-dip galvanised

Including appropriate fastening material.

Angle connector for cable trays with a side height of 60 mm.

Corner connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
REV 60 FS	60	10	49,000	**6067972**
REV 60 DD	60	10	32,100	**6069410**

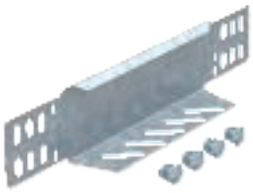
St Steel /pc.

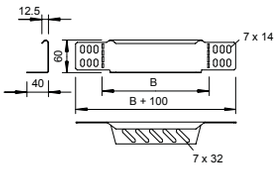
FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Fastening materials should be ordered separately.

Corner connector for cable trays with side height 60 mm.

Reducer / stop-end





Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWEB 610 FS	60	100	1	8,800	**7109105**
RWEB 615 FS	60	150	1	13,600	**7109156**
RWEB 620 FS	60	200	1	17,600	**7109202**
RWEB 630 FS	60	300	1	25,600	**7109296**
RWEB 640 FS	60	400	1	33,500	**7109407**
RWEB 650 FS	60	500	1	41,500	**7109504**
RWEB 660 FS	60	600	1	49,500	**7109601**
RWEB 605 DD	60	50	1	5,200	**7107145**
RWEB 610 DD	60	100	1	8,600	**7106106**
RWEB 615 DD	60	150	1	13,400	**7106110**
RWEB 620 DD	60	200	1	17,500	**7106114**
RWEB 630 DD	60	300	1	25,400	**7106118**
RWEB 640 DD	60	400	1	33,000	**7106122**
RWEB 650 DD	60	500	1	41,300	**7106126**
RWEB 660 DD	60	600	1	49,200	**7106130**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

Reducer and end closure plate for cable trays with side height 60 mm.

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Always indicate the item number when ordering.

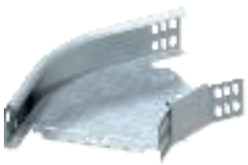
45° bend 50–300 mm

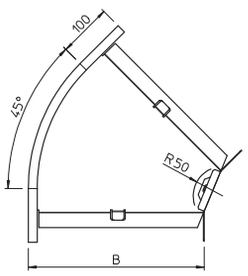
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 45 610 FS	100	1	35,000	**6043763**
RB 45 615 FS	150	1	75,000	**6043755**
RB 45 620 FS	200	1	54,000	**6043771**
RB 45 630 FS	300	1	82,000	**6043798**
RB 45 605 FT	50	1	53,000	**7066102**
RB 45 610 FT	100	1	60,000	**7066112**
RB 45 615 FT	150	1	80,000	**7066158**
RB 45 620 FT	200	1	75,000	**7066228**
RB 45 630 FT	300	1	110,000	**7066317**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

The fitting is shipped in an unmounted state. The WKV 60 angle connector is designed for 90° bends and can be adjusted to 45° on site.
Including appropriate fastening material.
45° bend, horizontal, for all cable tray types of 60 mm side height.





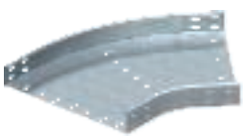
45° bend 400–900 mm

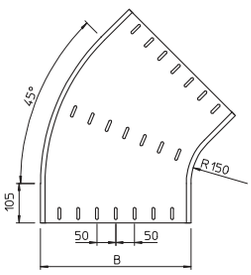
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 45 640 FS	400	1	301,000	**7000383**
RB 45 650 FS	500	1	386,000	**7000405**
RB 45 660 FS	600	1	465,000	**7000421**
RB 45 640 FT	400	1	301,000	**7066406**
RB 45 650 FT	500	1	386,000	**7066503**
RB 45 660 FT	600	1	500,000	**7066600**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.
45° bend, horizontal, for all cable tray types of 60 mm side height.





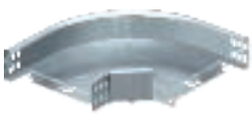
90° bend 50–300 mm

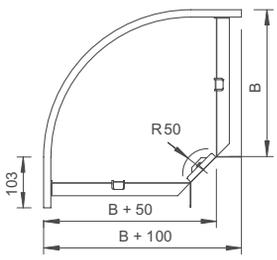
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 90 610 FS	100	1	56,000	**6043216**
RB 90 615 FS	150	1	86,000	**6043208**
RB 90 620 FS	200	1	110,000	**6043224**
RB 90 630 FS	300	1	165,000	**6043232**
RB 90 605 FT	50	1	98,000	**7125098**
RB 90 610 FT	100	1	60,000	**7125100**
RB 90 615 FT	150	1	93,000	**7125189**
RB 90 620 FT	200	1	118,000	**7125220**
RB 90 630 FT	300	1	179,500	**7125305**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

The fitting is shipped in an unmounted state.
Including appropriate fastening material.
90° bend, horizontal, for all cable tray types of 60 mm side height.





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Always indicate the item number when ordering.

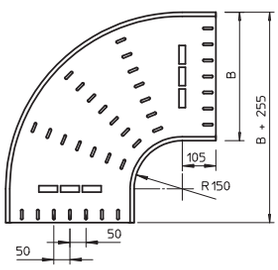
90° bend 400–900 mm



Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 90 640 FS	400	1	472,300	**7001290**
RB 90 650 FS	500	1	527,000	**7001304**
RB 90 660 FS	600	1	680,000	**7001312**
RB 90 640 FT	400	1	507,000	**7125410**
RB 90 650 FT	500	1	559,000	**7125526**
RB 90 660 FT	600	1	721,500	**7125585**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised



Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

90° bend, horizontal, for all cable tray types of 60 mm side height.

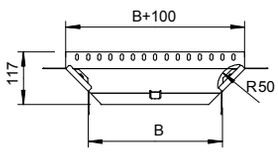
Add-on tee 50–300 mm



Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RAA 610 FS	100	1	43,000	**6040403**
RAA 615 FS	150	1	38,000	**6040411**
RAA 620 FS	200	1	40,000	**6040438**
RAA 630 FS	300	1	50,000	**6040446**
RAA 605 FT	50	1	176,000	**7121103**
RAA 610 FT	100	1	60,000	**7121109**
RAA 615 FT	150	1	41,000	**7121205**
RAA 620 FT	200	1	43,000	**7121210**
RAA 630 FT	300	1	55,000	**7121318**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised



The fitting is shipped in an unmounted state.
Including appropriate fastening material.

Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height.

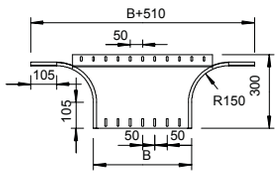
Add-on tee 400–900 mm



Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RAA 640 FS	400	1	220,000	**7002394**
RAA 650 FS	500	1	255,000	**7002416**
RAA 660 FS	600	1	285,000	**7002432**
RAA 640 FT	400	1	240,000	**7121407**
RAA 650 FT	500	1	280,000	**7121504**
RAA 660 FT	600	1	310,000	**7121601**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised



Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height.

Always indicate the item number when ordering.

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Tee

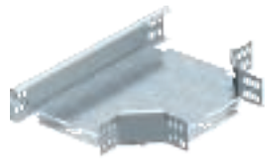
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RT 610 FS	100	1	78,000	**6043410**
RT 615 FS	150	1	101,000	**6043402**
RT 620 FS	200	1	128,000	**6043429**
RT 630 FS	300	1	193,000	**6043437**
RT 610 FT	100	1	84,000	**7117116**
RT 615 FT	150	1	109,000	**7117162**
RT 620 FT	200	1	138,000	**7117209**
RT 630 FT	300	1	204,000	**7117306**

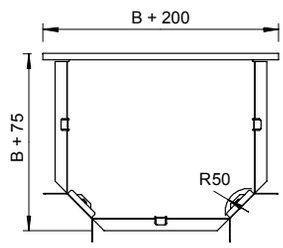
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

The fitting is shipped in an unmounted state. All the sides are designed for the same cable tray width. Including appropriate fastening material.

Horizontal tee, for all cable tray types of 60 mm side height.





Tee

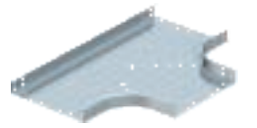
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RT 640 FS	400	1	697,000	**7003390**
RT 650 FS	500	1	804,000	**7003412**
RT 660 FS	600	1	1.001,000	**7003439**
RT 640 FT	400	1	746,000	**7117396**
RT 650 FT	500	1	804,500	**7117507**
RT 660 FT	600	1	1.001,700	**7117604**

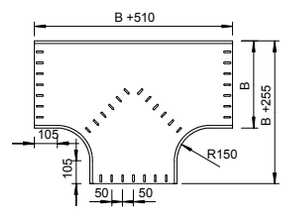
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Fitting in round design. The interior radius of the fitting is 150 mm. All the sides are designed for the same cable tray width.
Fastening materials should be ordered separately.

Horizontal tee, for all cable tray types of 60 mm side height.





Cross-over 100-300 mm

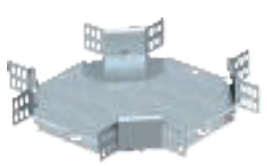
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RK 610 FS	100	1	87,000	**6043615**
RK 615 FS	150	1	108,000	**6043607**
RK 620 FS	200	1	110,900	**6043623**
RK 630 FS	300	1	195,000	**6043631**
RK 610 FT	100	1	93,000	**7113110**
RK 620 FT	200	1	144,000	**7113218**
RK 630 FT	300	1	268,000	**7113315**

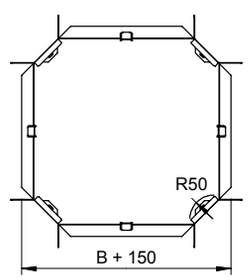
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

The fitting is shipped in an unmounted state. All the sides are designed for the same cable tray width. Including appropriate fastening material.

Horizontal cross-over for all cable tray types of 60 mm side height.



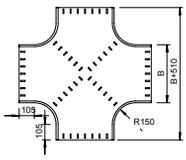


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Always indicate the item number when ordering.

Cross-over 400–900 mm





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RK 640 FT	400	1	860,000	**7113404**
RK 650 FT	500	1	1.190,000	**7113501**
RK 660 FT	600	1	1.370,000	**7113609**

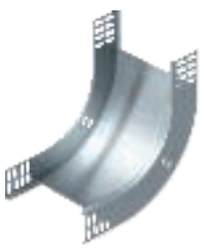
St Steel /pc.

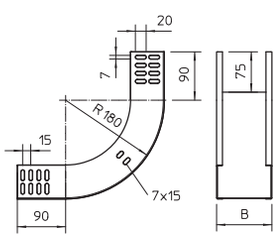
FT Hot-dip galvanised

Fitting in round design. The interior radius of the fitting is 150 mm. All the sides are designed for the same cable tray width.
Fastening materials should be ordered separately.

Horizontal cross-over for all cable tray types of 60 mm side height.

90° vertical bend, rising





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 605 S FS	50	1	50,000	**7007001**
RBV 610 S FS	100	1	66,000	**7007005**
RBV 615 S FS	150	1	78,000	**7007009**
RBV 620 S FS	200	1	95,000	**7007013**
RBV 630 S FS	300	1	124,000	**7007017**
RBV 640 S FS	400	1	153,000	**7007021**
RBV 650 S FS	500	1	181,000	**7007025**
RBV 660 S FS	600	1	210,000	**7007029**
RBV 605 S FT	50	1	54,000	**7007002**
RBV 610 S FT	100	1	71,000	**7007006**
RBV 615 S FT	150	1	84,000	**7007010**
RBV 620 S FT	200	1	103,000	**7007014**
RBV 630 S FT	300	1	134,000	**7007018**
RBV 640 S FT	400	1	163,000	**7007022**
RBV 650 S FT	500	1	190,000	**7007026**
RBV 660 S FT	600	1	221,000	**7007030**

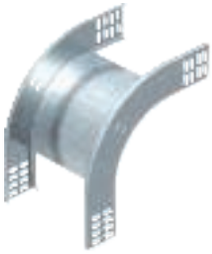
St Steel /pc.

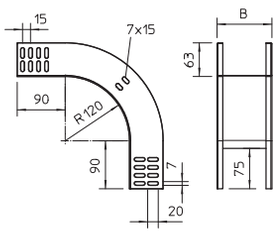
FS Strip-galvanised FT Hot-dip galvanised

The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

90° rising vertical bend, for all cable tray types of 60 mm side height.

90° vertical bend, falling





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 605 F FS	50	1	49,000	**7007051**
RBV 610 F FS	100	1	61,000	**7007055**
RBV 615 F FS	150	1	73,000	**7007059**
RBV 620 F FS	200	1	84,000	**7007063**
RBV 630 F FS	300	1	107,000	**7007067**
RBV 640 F FS	400	1	130,000	**7007071**
RBV 650 F FS	500	1	153,000	**7007075**
RBV 660 F FS	600	1	176,000	**7007079**
RBV 605 F FT	50	1	53,000	**7007052**
RBV 610 F FT	100	1	66,000	**7007056**
RBV 615 F FT	150	1	80,000	**7007060**
RBV 620 F FT	200	1	92,000	**7007064**
RBV 630 F FT	300	1	116,000	**7007068**
RBV 640 F FT	400	1	142,000	**7007072**
RBV 650 F FT	500	1	167,000	**7007076**
RBV 660 F FT	600	1	192,000	**7007080**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

90° vertical bend, falling, for all cable tray types of 60 mm side height.

Always indicate the item number when ordering.

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90° adjustable vertical bend

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGBV 610 FS	100	1	173,700	**7006322**
RGBV 615 FS	150	1	194,000	**7006330**
RGBV 620 FS	200	1	219,000	**7006349**
RGBV 630 FS	300	1	264,000	**7006365**
RGBV 640 FS	400	1	311,000	**7006381**
RGBV 650 FS	500	1	394,000	**7006411**
RGBV 660 FS	600	1	430,000	**7006446**
RGBV 610 FT	100	1	186,000	**7079109**
RGBV 615 FT	150	1	200,000	**7079141**
RGBV 620 FT	200	1	217,800	**7079206**
RGBV 630 FT	300	1	295,000	**7079303**
RGBV 640 FT	400	1	349,000	**7079400**
RGBV 650 FT	500	1	404,000	**7079508**
RGBV 660 FT	600	1	460,000	**7079605**

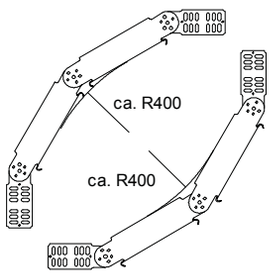
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

The bend is shipped in an unmounted state. No additional fastening materials are required.

90° adjustable vertical bend, for all cable tray types with a side height of 60 mm.





Adjustable vertical bend element

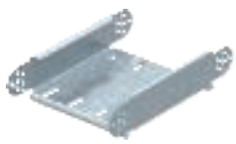
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGBEV 610 FS	100	1	48,100	**7005326**
RGBEV 615 FS	150	1	61,500	**7005334**
RGBEV 620 FS	200	1	63,600	**7005342**
RGBEV 630 FS	300	1	80,400	**7005369**
RGBEV 640 FS	400	1	114,000	**7005385**
RGBEV 650 FS	500	1	134,000	**7005407**
RGBEV 660 FS	600	1	154,800	**7005423**
RGBEV 610 FT	100	1	52,400	**7075103**
RGBEV 615 FT	150	1	61,800	**7075154**
RGBEV 620 FT	200	1	69,300	**7075200**
RGBEV 630 FT	300	1	87,600	**7075308**
RGBEV 640 FT	400	1	123,000	**7075405**
RGBEV 650 FT	500	1	144,000	**7075502**
RGBEV 660 FT	600	1	166,400	**7075596**

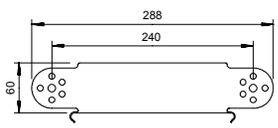
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

RGV 60 adjustable connectors should be ordered separately and in the appropriate quantity.

Adjustable vertical bend element, for all cable tray types with a side height of 60 mm.

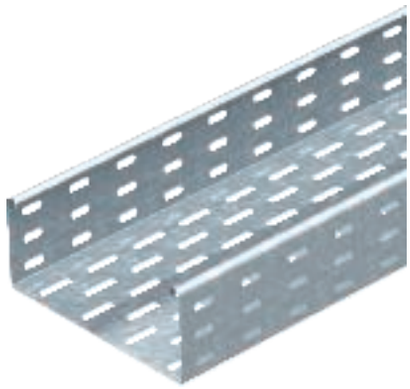




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Always indicate the item number when ordering.

Cable tray MKS



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKS 810 FS	100	1	3	207,670	**6057101**
MKS 820 FS	200	1	3	273,000	**6057209**
MKS 830 FS	300	1	3	338,340	**6057306**
MKS 840 FS	400	1	3	403,300	**6057403**
MKS 850 FS	500	1	3	468,670	**6057500**
MKS 860 FS	600	1	3	536,700	**6057535**

St Steel /m

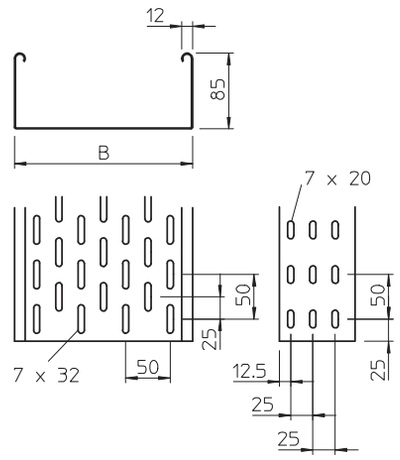
FS Strip-galvanised

Including connector, type RLVL 85.

MKS 85 = medium-duty cable tray system with a side height of 85 mm.

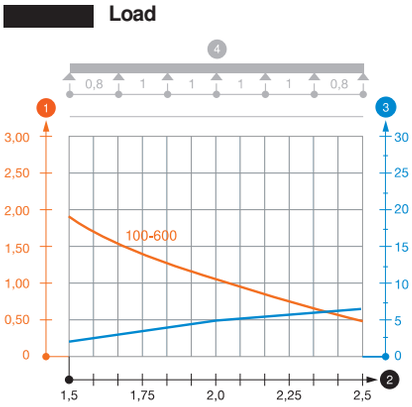
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Width mm	Useful cross-section cm²
MKS 810 FS	3000	100	83
MKS 820 FS	3000	200	186
MKS 830 FS	3000	300	253
MKS 840 FS	3000	400	338
MKS 850 FS	3000	500	423
MKS 860 FS	3000	600	508

Load



Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKS 810 FS	1.75	1.1	0.5
MKS 820 FS	1.75	1.1	0.5
MKS 830 FS	1.75	1.1	0.5
MKS 840 FS	1.75	1.1	0.5
MKS 850 FS	1.75	1.1	0.5
MKS 860 FS	1.75	1.1	0.5

Load diagram, cable tray, type MKS 85

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

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Cable tray SKS

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
SKS 810 FS	100	1.5	3	311,800	**6058108**
SKS 820 FS	200	1.5	3	411,300	**6058205**
SKS 830 FS	300	1.5	3	509,300	**6058302**
SKS 840 FS	400	1.5	3	607,300	**6058396**
SKS 850 FS	500	1.5	3	704,700	**6058507**
SKS 860 FS	600	1.5	3	803,300	**6058604**
SKS 810 FT	100	1.5	3	330,500	**6058620**
SKS 820 FT	200	1.5	3	436,000	**6058647**
SKS 830 FT	300	1.5	3	538,500	**6058663**
SKS 840 FT	400	1.5	3	644,000	**6058698**
SKS 850 FT	500	1.5	3	747,000	**6058728**
SKS 860 FT	600	1.5	3	850,800	**6058744**

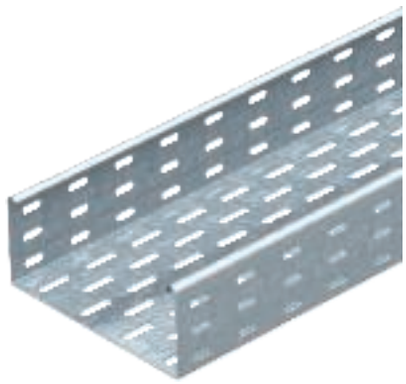
St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

FS version includes connector, type RLVL 85.

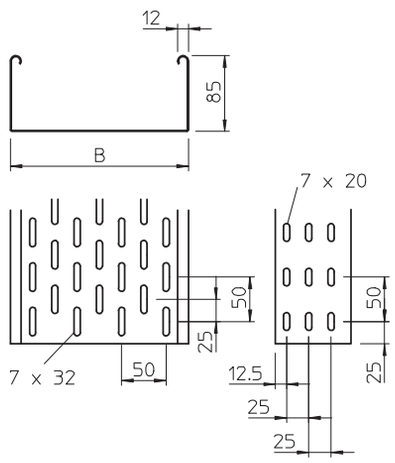
SKS 85 = heavy-duty cable tray system with 85 mm side height.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.



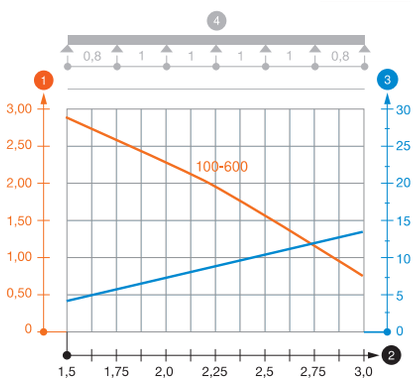
Dimensions

Type	Length mm	Width mm	Useful cross-section cm²
SKS 810 FS	3000	100	83
SKS 820 FS	3000	200	186
SKS 830 FS	3000	300	253
SKS 840 FS	3000	400	338
SKS 850 FS	3000	500	423
SKS 860 FS	3000	600	508



Load

Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKS 810 FS	2.8	2.25	1.5	0.75
SKS 820 FS	2.8	2.25	1.5	0.75
SKS 830 FS	2.8	2.25	1.5	0.75
SKS 840 FS	2.8	2.25	1.5	0.75
SKS 850 FS	2.8	2.25	1.5	0.75
SKS 860 FS	2.8	2.25	1.5	0.75



Load diagram, cable tray, type SKS 85

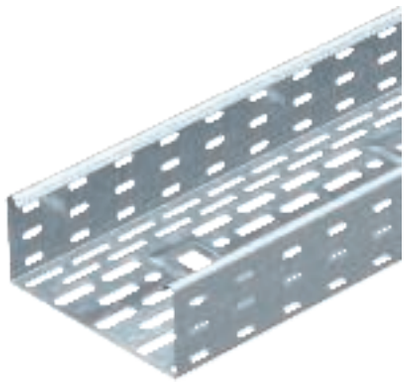
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

Load curve with cable tray/ladder width in mm

Strut bend curve according to support width

Always indicate the item number when ordering.

Cable tray DKS



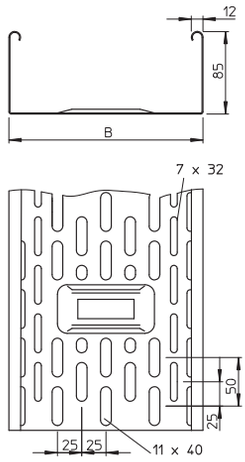
Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
DKS 810 FT	100	1	3	214,340	**6086470**
DKS 820 FT	200	1	3	276,000	**6086497**
DKS 830 FT	300	1	3	3,340	**6086519**
DKS 840 FT	400	1.5	3	579,340	**6086659**
DKS 850 FT	500	1.5	3	662,670	**6086675**
DKS 860 FT	600	1.5	3	746,340	**6086691**

St Steel /m

FT Hot-dip galvanised

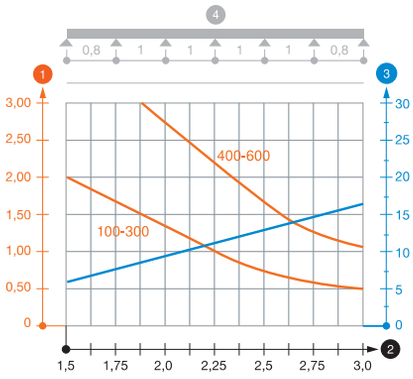
Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.
Bottom penetration from width 200 mm.
Connecting parts should be ordered in the appropriate quantity.
DKS 85 = perforated cable tray system with 85 mm side height.
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Width mm	Useful cross-section cm²
DKS 810 FT	3000	100	83
DKS 820 FT	3000	200	186
DKS 830 FT	3000	300	253
DKS 840 FT	3000	400	338
DKS 850 FT	3000	500	423
DKS 860 FT	3000	600	508

Load



Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
DKS 810 FT	2	1.1	0.65	0.5
DKS 820 FT	2	1.1	0.65	0.5
DKS 830 FT	2	1.1	0.65	0.5
DKS 840 FT	3	2.75	1.5	1.1
DKS 850 FT	3	2.75	1.5	1.1
DKS 860 FT	3	2.75	1.5	1.1

Load diagram, cable tray, type DKS 85

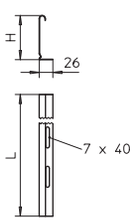
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Barrier strip





Type	Dimension H mm	Plate thickness mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 85 FS	85	0.75	3000	3	70,300	**6062114**
TSG 85 DD	85	0.75	3000	3	70,300	**6062331**

St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.

Always indicate the item number when ordering.

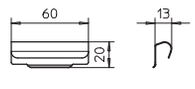
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Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**

V2A Stainless steel, grade 301 /pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.





Straight and angle connector

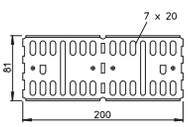
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RLVL 85 FS	85	10	27,300	**6067123**
RLVL 85 FT	85	10	28,300	**6067816**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Including appropriate fastening material.

Straight and angle connector for cable trays and fittings with a side height of 85 mm.





Adjustable connector

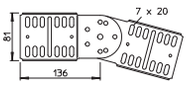
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGV 85 FS	85	10	34,000	**7082029**
RGV 85 FT	85	10	34,000	**7082320**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Including appropriate fastening material.

Adjustable connector for cable trays with a side height of 85 mm.





Corner connector

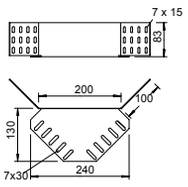
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
REV 85 FS	85	10	61,000	**6067980**
REV 85 DD	85	10	61,000	**6069320**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Fastening materials should be ordered separately.

Corner connector for cable trays with side height 85 mm.

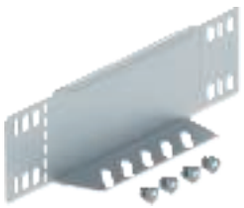


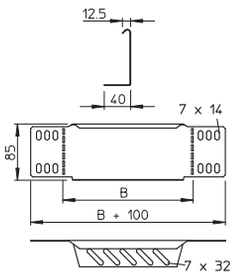


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Always indicate the item number when ordering.

Reducer / stop-end





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWEB 810 FS	100	1	12,500	**7110103**
RWEB 820 FS	200	1	23,400	**7110200**
RWEB 830 FS	300	1	33,300	**7110308**
RWEB 840 FS	400	1	43,200	**7110405**
RWEB 850 FS	500	1	53,200	**7110502**
RWEB 860 FS	600	1	63,000	**7110618**
RWEB 810 DD	100	1	12,600	**7107315**
RWEB 820 DD	200	1	23,300	**7107331**
RWEB 830 DD	300	1	33,300	**7107366**
RWEB 840 DD	400	1	43,200	**7107382**
RWEB 850 DD	500	1	53,100	**7107404**
RWEB 860 DD	600	1	63,100	**7107420**

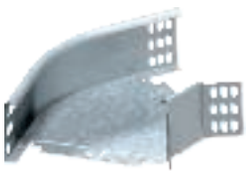
St Steel /pc.

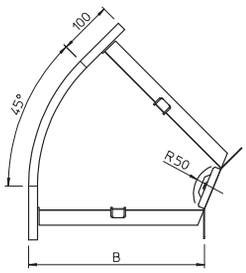
FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

Reducer/stop-end for cable trays with side height 85 mm.

45° bend 100-300 mm





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 45 810 FS	100	1	60,000	**7000472**
RB 45 820 FS	200	1	85,000	**7000499**
RB 45 830 FS	300	1	120,000	**7000510**
RB 45 810 FT	100	1	65,000	**7067119**
RB 45 820 FT	200	1	90,000	**7067216**
RB 45 830 FT	300	1	130,000	**7067313**

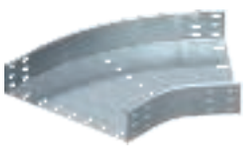
St Steel /pc.

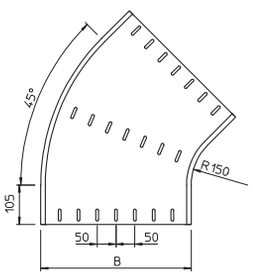
FS Strip-galvanised FT Hot-dip galvanised

The fitting is shipped in an unmounted state. The WKV 85 angle connector is designed for 90° bends and can be adjusted to 45° on site.
Including appropriate fastening material.

45° bend, horizontal, for all cable tray types of 85 mm side height.

45° bend 400-600 mm





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 45 840 FS	400	1	320,000	**7000529**
RB 45 850 FS	500	1	380,000	**7000545**
RB 45 860 FS	600	1	490,000	**7000561**
RB 45 840 FT	400	1	340,000	**7067402**
RB 45 850 FT	500	1	400,000	**7067496**
RB 45 860 FT	600	1	525,000	**7067607**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

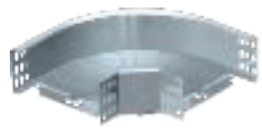
Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

45° bend, horizontal, for all cable tray types of 85 mm side height.

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90° bend 100-300 mm

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 90 810 FS	100	1	65,000	**7001762**
RB 90 820 FS	200	1	150,000	**7001789**
RB 90 830 FS	300	1	180,000	**7001800**
RB 90 810 FT	100	1	70,000	**7126127**
RB 90 820 FT	200	1	160,000	**7126216**
RB 90 830 FT	300	1	200,000	**7126301**

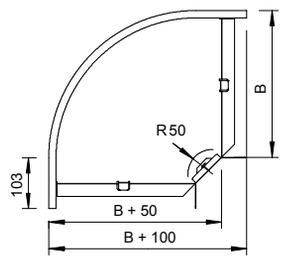


St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

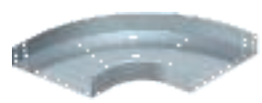
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

90° bend, horizontal, for all cable tray types of 85 mm side height.



90° bend 400-600 mm

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 90 840 FS	400	1	500,000	**7001819**
RB 90 850 FS	500	1	650,000	**7001835**
RB 90 860 FS	600	1	820,000	**7001851**
RB 90 840 FT	400	1	540,000	**7126417**
RB 90 850 FT	500	1	690,000	**7126514**
RB 90 860 FT	600	1	870,000	**7126611**

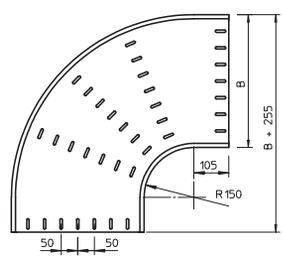


St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

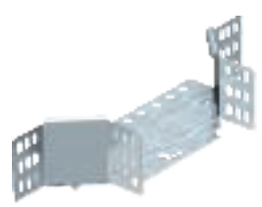
Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

90° bend, horizontal, for all cable tray types of 85 mm side height.



Add-on tee 100-300 mm

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RAA 810 FS	100	1	40,000	**7002475**
RAA 820 FS	200	1	45,000	**7002491**
RAA 830 FS	300	1	60,000	**7002513**
RAA 810 FT	100	1	45,000	**7122109**
RAA 820 FT	200	1	50,000	**7122213**
RAA 830 FT	300	1	65,000	**7122310**

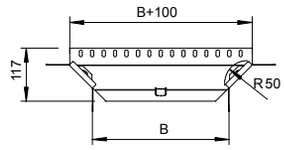


St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

The fitting is shipped in an unmounted state.
Including appropriate fastening material.

Add-on tee for horizontal and vertical use. For all cable tray types of 85 mm side height.

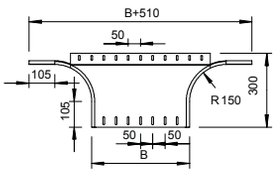


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Always indicate the item number when ordering.

Add-on tee 400-600 mm





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RAA 840 FS	400	1	230,000	**7002521**
RAA 850 FS	500	1	265,000	**7002556**
RAA 860 FS	600	1	295,000	**7002572**
RAA 840 FT	400	1	250,000	**7122403**
RAA 850 FT	500	1	290,000	**7122500**
RAA 860 FT	600	1	320,000	**7122608**

St Steel /pc.

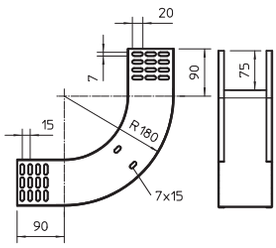
FS Strip-galvanised FT Hot-dip galvanised

Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

Add-on tee for horizontal and vertical use. For all cable tray types of 85 mm side height.

90° vertical bend, rising





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 810 S FS	100	1	97,100	**7007230**
RBV 820 S FS	200	1	132,600	**7007234**
RBV 830 S FS	300	1	156,200	**7007238**
RBV 840 S FS	400	1	179,900	**7007242**
RBV 850 S FS	500	1	203,500	**7007246**
RBV 860 S FS	600	1	227,100	**7007250**
RBV 810 S FT	100	1	97,100	**7007231**
RBV 820 S FT	200	1	132,600	**7007235**
RBV 830 S FT	300	1	156,200	**7007239**
RBV 840 S FT	400	1	179,900	**7007243**
RBV 850 S FT	500	1	203,500	**7007247**
RBV 860 S FT	600	1	227,100	**7007251**

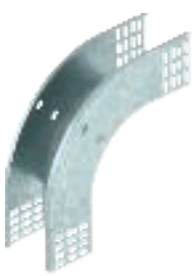
St Steel /pc.

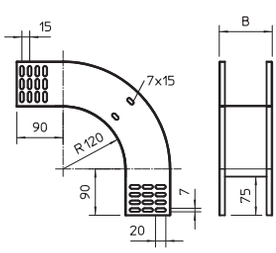
FS Strip-galvanised FT Hot-dip galvanised

The vertical bend is pushed over the end of the cable tray and screwed tight. Fastening materials should be ordered separately.

90° rising vertical bend, for all cable tray types of 85 mm side height.

90° vertical bend, falling





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 810 F FS	100	1	86,600	**7007270**
RBV 820 F FS	200	1	104,200	**7007274**
RBV 830 F FS	300	1	121,800	**7007278**
RBV 840 F FS	400	1	139,500	**7007282**
RBV 850 F FS	500	1	157,100	**7007286**
RBV 860 F FS	600	1	174,700	**7007290**
RBV 810 F FT	100	1	86,600	**7007271**
RBV 820 F FT	200	1	104,200	**7007275**
RBV 830 F FT	300	1	121,800	**7007279**
RBV 840 F FT	400	1	139,500	**7007283**
RBV 850 F FT	500	1	157,100	**7007287**
RBV 860 F FT	600	1	174,700	**7007291**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

The vertical bend is pushed over the end of the cable tray and screwed tight. Fastening materials should be ordered separately.

90° vertical bend, falling, for all cable tray types of 85 mm side height.

Always indicate the item number when ordering.

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90° adjustable vertical bend

Type	Width mm		Pack. pcs	Weight kg/100 pcs.	Item No.
RGBV 810 FS	100		1	226,000	**7006462**
RGBV 820 FS	200		1	273,000	**7006489**
RGBV 830 FS	300		1	320,000	**7006500**
RGBV 840 FS	400		1	366,000	**7006527**
RGBV 850 FS	500		1	449,000	**7006543**
RGBV 860 FS	600		1	503,000	**7006578**
RGBV 810 FT	100		1	260,000	**7080107**
RGBV 820 FT	200		1	325,000	**7080204**
RGBV 830 FT	300		1	380,000	**7080301**
RGBV 840 FT	400		1	434,700	**7080409**
RGBV 850 FT	500		1	488,200	**7080506**
RGBV 860 FT	600		1	549,700	**7080603**

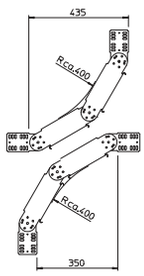
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

The bend is shipped in an unmounted state. No additional fastening materials are required.

90° adjustable vertical bend, for all cable tray types with a side height of 85 mm.





Adjustable vertical bend element

Type	Width mm		Pack. pcs	Weight kg/100 pcs.	Item No.
RGBEV 810 FS	100		1	70,000	**7005466**
RGBEV 820 FS	200		1	91,900	**7005482**
RGBEV 830 FS	300		1	112,400	**7005504**
RGBEV 840 FS	400		1	132,700	**7005520**
RGBEV 850 FS	500		1	153,100	**7005547**
RGBEV 860 FS	600		1	173,400	**7005563**
RGBEV 810 FT	100		1	70,100	**7076096**
RGBEV 820 FT	200		1	98,500	**7076207**
RGBEV 830 FT	300		1	120,500	**7076304**
RGBEV 840 FT	400		1	142,300	**7076401**
RGBEV 850 FT	500		1	164,100	**7076509**
RGBEV 860 FT	600		1	185,900	**7076606**

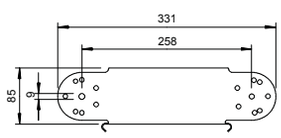
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

RGV 85 adjustable connectors should be ordered separately and in the appropriate quantity.

Adjustable vertical bend element, for all cable tray types with a side height of 85 mm.

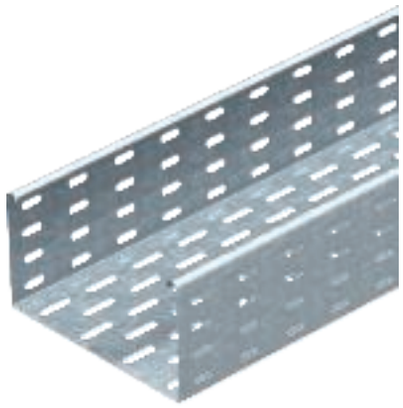




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Always indicate the item number when ordering.

Cable tray MKS



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKS 110 FS	100	1	3	243,100	**6060102**
MKS 120 FS	200	1	3	308,500	**6060196**
MKS 130 FS	300	1	3	373,900	**6060307**
MKS 140 FS	400	1	3	463,000	**6060404**
MKS 150 FS	500	1	3	503,700	**6060412**
MKS 155 FS	550	1	3	536,700	**6060528**

St Steel /m

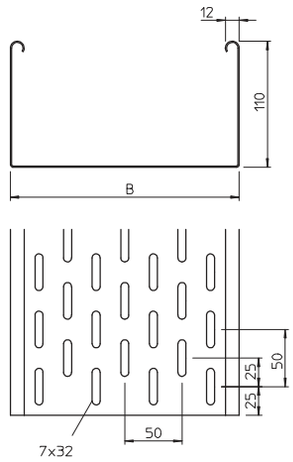
FS Strip-galvanised

Including connector, type RLVL 110.

MKS 110 = medium-duty cable tray system with a side height of 110 mm.

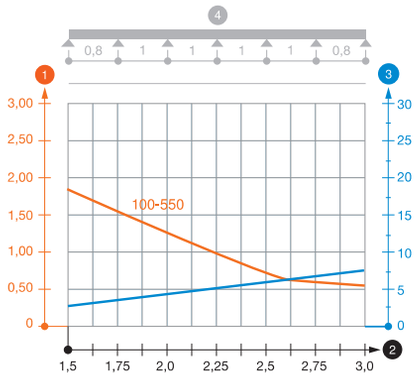
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Width mm	Useful cross-section cm^2
MKS 110 FS	3000	100	108
MKS 120 FS	3000	200	218
MKS 130 FS	3000	300	328
MKS 140 FS	3000	400	438
MKS 150 FS	3000	500	548
MKS 155 FS	3000	550	603

Load



Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
MKS 110 FS	1.85	1.3	0.75	0.6
MKS 120 FS	1.85	1.3	0.75	0.6
MKS 130 FS	1.85	1.3	0.75	0.6
MKS 140 FS	1.85	1.3	0.75	0.6
MKS 150 FS	1.85	1.3	0.75	0.6
MKS 155 FS	1.85	1.3	0.75	0.6

Load diagram, cable tray, type MKS 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

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Cable tray SKS



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
SKS 110 FS	100	1.5	3	366,000	**6061109**
SKS 120 FS	200	1.5	3	464,000	**6061206**
SKS 130 FS	300	1.5	3	562,300	**6061303**
SKS 140 FS	400	1.5	3	681,670	**6061400**
SKS 150 FS	500	1.5	3	758,300	**6061508**
SKS 155 FS	550	1.5	3	804,700	**6061559**
SKS 110 FT	100	1.5	3	386,700	**6061605**
SKS 120 FT	200	1.5	3	490,000	**6061621**
SKS 130 FT	300	1.5	3	596,300	**6061656**
SKS 140 FT	400	1.5	3	697,400	**6061672**
SKS 150 FT	500	1.5	3	804,000	**6061702**
SKS 155 FT	550	1.5	3	856,000	**6061729**

St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

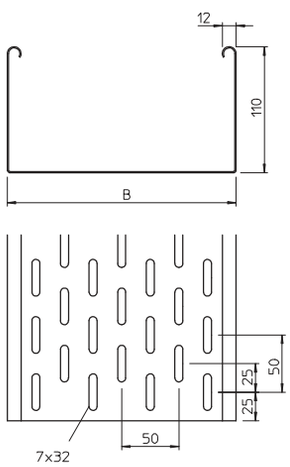
FS version includes connector, type RLVL 110.

SKS 110 = heavy-duty cable tray system with 110 mm side height.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.

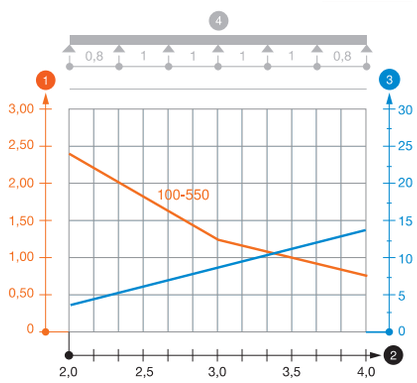
Dimensions

Type	Length mm	Width mm	Useful cross-section cm²
SKS 110 FS	3000	100	108
SKS 120 FS	3000	200	218
SKS 130 FS	3000	300	328
SKS 140 FS	3000	400	438
SKS 150 FS	3000	500	548
SKS 155 FS	3000	550	603



Load

Type	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
SKS 110 FS	3	2.4	1.2	0.8
SKS 120 FS	3	2.4	1.2	0.8
SKS 130 FS	3	2.4	1.2	0.8
SKS 140 FS	3	2.4	1.2	0.8
SKS 150 FS	3	2.4	1.2	0.8
SKS 155 FS	3	2.4	1.2	0.8



Load diagram, cable tray, type SKS 110

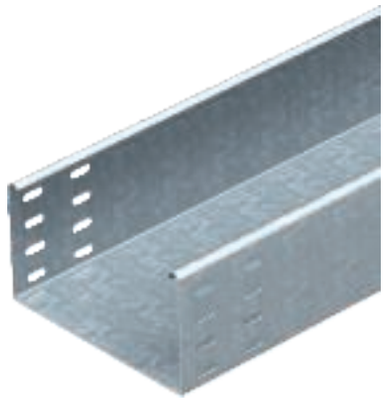
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

Load curve with cable tray/ladder width in mm

Strut bend curve according to support width

Always indicate the item number when ordering.

Cable tray SKSU



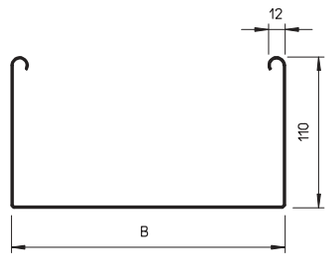
Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
SKSU 110 FS	100	1.5	3	404,000	**6063403**
SKSU 120 FS	200	1.5	3	520,000	**6063438**
SKSU 130 FS	300	1.5	3	637,000	**6063454**
SKSU 140 FS	400	1.5	3	754,700	**6063470**
SKSU 150 FS	500	1.5	3	872,000	**6063497**
SKSU 155 FS	550	1.5	3	935,300	**6063500**
SKSU 110 FT	100	1.5	3	406,700	**6064795**
SKSU 120 FT	200	1.5	3	551,300	**6064833**
SKSU 130 FT	300	1.5	3	694,000	**6064884**
SKSU 140 FT	400	1.5	3	822,700	**6064922**
SKSU 150 FT	500	1.5	3	925,000	**6064965**
SKSU 155 FT	550	1.5	3	991,700	**6064973**

St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

The cable tray has connector perforations on both sides.
Straight connectors should be ordered separately and in the appropriate quantity.
SKS 110 = heavy-duty cable tray system, unperforated, with 110 mm side height.
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

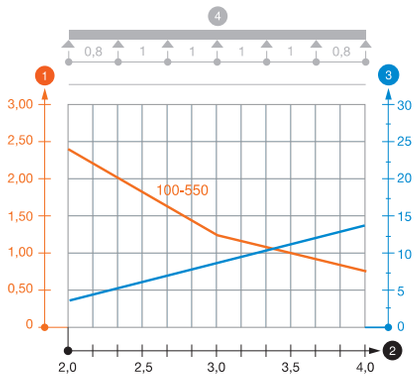
Dimensions





Type	Length mm	Width mm	Useful cross-section cm^2
SKSU 110 FS	3000	100	108
SKSU 120 FS	3000	200	218
SKSU 130 FS	3000	300	328
SKSU 140 FS	3000	400	438
SKSU 150 FS	3000	500	548
SKSU 155 FS	3000	550	603

Load



Type	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
SKSU 110 FS	3	2.4	1.2	0.8
SKSU 120 FS	3	2.4	1.2	0.8
SKSU 130 FS	3	2.4	1.2	0.8
SKSU 140 FS	3	2.4	1.2	0.8
SKSU 150 FS	3	2.4	1.2	0.8
SKSU 155 FS	3	2.4	1.2	0.8

Load diagram, cable tray, type SKSU 110

1 Permitted cable tray/ladder load in kN/m without man load
2 Support width in m
3 Rail bend in mm at permitted kN/m
4 Load scheme during testing
Load curve with cable tray/ladder width in mm
Strut bend curve according to support width

Always indicate the item number when ordering.

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Barrier strip

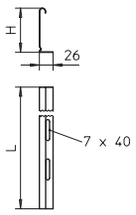
Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 110 FS	110	3000	3	85,000	**6062122**
TSG 110 DD	110	3000	3	85,000	**6062335**

/m

St Steel

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.





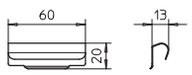
Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**

/pc.

V2A Stainless steel, grade 301

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.





Straight and angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RLVL 110 FS	110	10	27,000	**6067131**
RLVL 110 FT	110	10	28,000	**6067913**

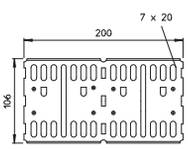
/pc.

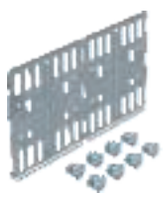
St Steel

FS Strip-galvanised FT Hot-dip galvanised

Including appropriate fastening material.

Straight and angle connector for cable trays and fittings with a side height of 110 mm.





Adjustable connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGV 110 FS	110	10	64,000	**7082037**
RGV 110 FT	110	10	64,000	**7082436**

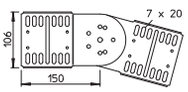
/pc.

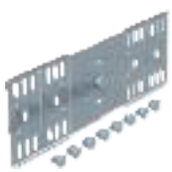
St Steel

FS Strip-galvanised FT Hot-dip galvanised

Including appropriate fastening material.

Adjustable connector for cable trays with a side height of 110 mm.





Corner connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
REV 110 FS	110	10	72,000	**6067999**
REV 110 DD	110	10	72,000	**6069339**

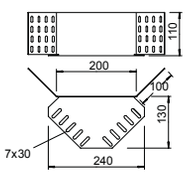
/pc.

St Steel

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Fastening materials should be ordered separately.

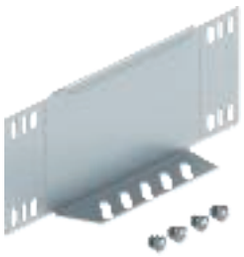
Corner connector for cable trays with side height 110 mm.

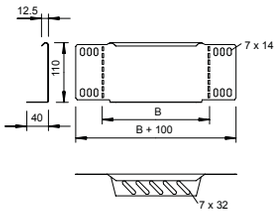




Always indicate the item number when ordering.

Reducer / stop-end





Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWEB 110 FS	110	100	1	16,400	**7111096**
RWEB 120 FS	110	200	1	29,000	**7111207**
RWEB 130 FS	110	300	1	40,700	**7111304**
RWEB 140 FS	110	400	1	52,900	**7111428**
RWEB 150 FS	110	500	1	64,800	**7111509**
RWEB 155 FS	110	550	1	70,700	**7111541**
RWEB 110 DD	110	100	1	16,300	**7107455**
RWEB 120 DD	110	200	1	25,000	**7107471**
RWEB 130 DD	110	300	1	44,000	**7107501**
RWEB 140 DD	110	400	1	58,000	**7107536**
RWEB 150 DD	110	500	1	64,700	**7107552**
RWEB 155 DD	110	550	1	70,700	**7107560**

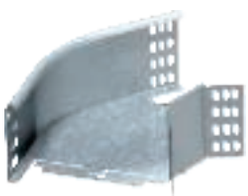
St Steel /pc.

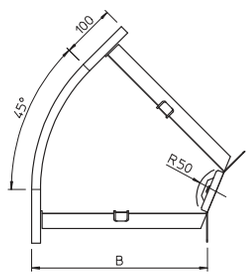
FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

From a width of 150 mm, the perforated lower flange is provided.
Including appropriate fastening material.

Reducer/stop-end for cable trays with side height 110 mm.

45° bend 100-300 mm





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 45 110 FS	100	1	70,000	**7000634**
RB 45 120 FS	200	1	100,000	**7000650**
RB 45 130 FS	300	1	135,000	**7000677**
RB 45 110 FT	100	1	75,000	**7068115**
RB 45 120 FT	200	1	110,000	**7068212**
RB 45 130 FT	300	1	145,000	**7068328**

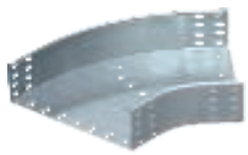
St Steel /pc.

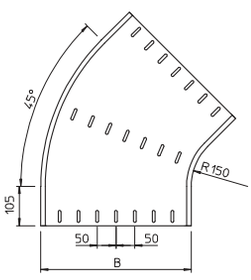
FS Strip-galvanised FT Hot-dip galvanised

The fitting is shipped in an unmounted state. The WKV 110 angle connector is designed for 90° bends and can be adjusted to 45° on site.
Including appropriate fastening material.

45° bend, horizontal, for all cable tray types of 110 mm side height.

45° bend 400-550 mm





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 45 140 FS	400	1	340,000	**7000685**
RB 45 150 FS	500	1	400,000	**7000707**
RB 45 155 FS	550	1	470,000	**7000715**
RB 45 140 FT	400	1	365,000	**7068409**
RB 45 150 FT	500	1	425,000	**7068506**
RB 45 155 FT	550	1	500,000	**7068557**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

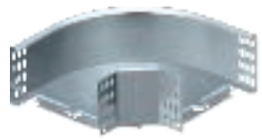
45° bend, horizontal, for all cable tray types of 110 mm side height.

Always indicate the item number when ordering.

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90° bend 100-300 mm

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 90 110 FS	100	1	80,000	**7001894**
RB 90 120 FS	200	1	140,000	**7001916**
RB 90 130 FS	300	1	210,000	**7001932**
RB 90 110 FT	100	1	85,000	**7127103**
RB 90 120 FT	200	1	150,000	**7127227**
RB 90 130 FT	300	1	230,000	**7127320**

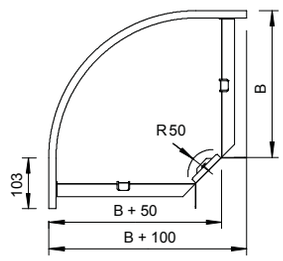


St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

The fitting is shipped in an unmounted state.
Including appropriate fastening material.

90° bend, horizontal, for all cable tray types of 110 mm side height.



90° bend 400-550 mm

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 90 140 FS	400	1	540,000	**7001940**
RB 90 150 FS	500	1	700,000	**7001967**
RB 90 155 FS	550	1	780,000	**7001975**
RB 90 140 FT	400	1	575,000	**7127413**
RB 90 150 FT	500	1	750,000	**7127499**
RB 90 155 FT	550	1	840,000	**7127545**

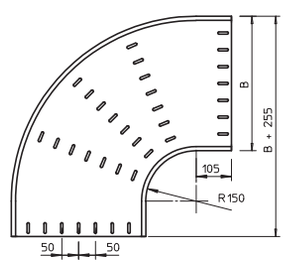


St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

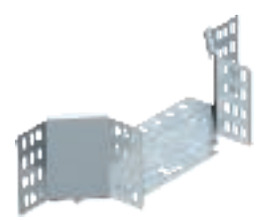
Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

90° bend, horizontal, for all cable tray types of 110 mm side height.



Add-on tee 100-300 mm

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RAA 110 FS	100	1	45,000	**7002637**
RAA 120 FS	200	1	55,000	**7002653**
RAA 130 FS	300	1	70,000	**7002688**
RAA 110 FT	100	1	50,000	**7123116**
RAA 120 FT	200	1	60,000	**7123213**
RAA 130 FT	300	1	75,000	**7123310**

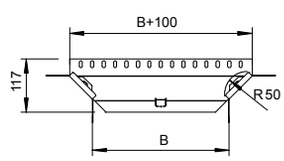


St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

The fitting is shipped in an unmounted state.
Including appropriate fastening material.

Add-on tee for horizontal and vertical use. For all cable tray types of 110 mm side height.



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Always indicate the item number when ordering.

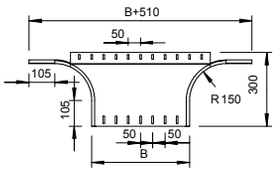
Add-on tee 300-550 mm



Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RAA 140 FS	400	1	250,000	**7002696**
RAA 150 FS	500	1	285,000	**7002726**
RAA 155 FS	550	1	300,000	**7002734**
RAA 140 FT	400	1	270,000	**7123396**
RAA 150 FT	500	1	310,000	**7123507**
RAA 155 FT	550	1	325,000	**7123558**

St Steel /pc.

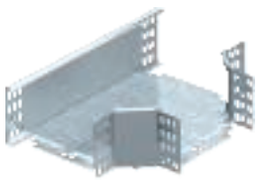
FS Strip-galvanised FT Hot-dip galvanised



Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

Add-on tee for horizontal and vertical use. For all cable tray types of 110 mm side height.

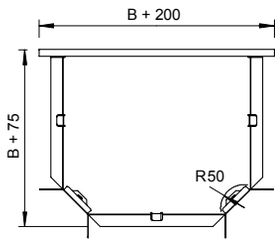
Tee



Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RT 110 FS	100	1	105,000	**7003633**
RT 120 FS	200	1	160,000	**7003668**
RT 130 FS	300	1	235,000	**7003684**
RT 110 FT	100	1	110,000	**7119119**
RT 120 FT	200	1	180,000	**7119216**
RT 130 FT	300	1	250,000	**7119313**

St Steel /pc.

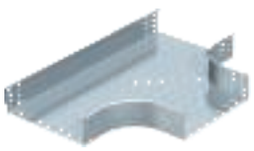
FS Strip-galvanised FT Hot-dip galvanised



The fitting is shipped in an unmounted state. All the sides are designed for the same cable tray width. Including appropriate fastening material.

Horizontal tee, for all cable tray types of 110 mm side height.

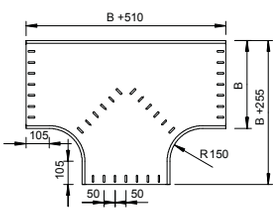
Tee



Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RT 140 FS	400	1	770,000	**7003692**
RT 150 FS	500	1	950,000	**7003714**
RT 140 FT	400	1	825,000	**7119402**
RT 150 FT	500	1	950,000	**7119496**
RT 155 FT	550	1	1.100,000	**7119550**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised



Fitting in round design. The interior radius of the fitting is 150 mm. All the sides are designed for the same cable tray width.

Fastening materials should be ordered separately.

Horizontal tee, for all cable tray types of 110 mm side height.

Always indicate the item number when ordering.

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Cross-over 100-300 mm

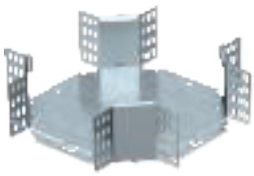
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RK 110 FS	100	1	110,000	**7004648**
RK 120 FS	200	1	160,000	**7004664**
RK 130 FS	300	1	220,000	**7004680**
RK 110 FT	100	1	120,000	**7115113**
RK 120 FT	200	1	175,000	**7115210**
RK 130 FT	300	1	240,000	**7115318**

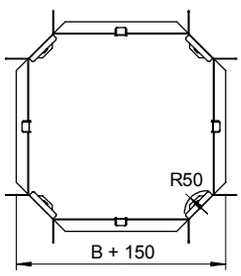
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

The fitting is shipped in an unmounted state. All the sides are designed for the same cable tray width. Including appropriate fastening material.

Horizontal cross-over for all cable tray types of 110 mm side height.





Cross-over 400-550 mm

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RK 140 FS	400	1	906,000	**7004699**
RK 150 FS	500	1	1.100,000	**7004710**
RK 140 FT	400	1	960,000	**7115407**
RK 150 FT	500	1	1.180,000	**7115504**

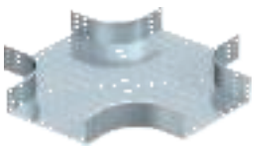
St Steel /pc.

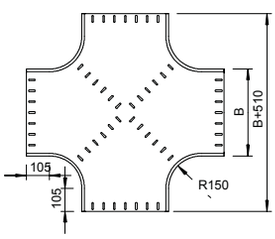
FS Strip-galvanised FT Hot-dip galvanised

Fitting in round design. The interior radius of the fitting is 150 mm. All the sides are designed for the same cable tray width.

Fastening materials should be ordered separately.

Horizontal cross-over for all cable tray types of 110 mm side height.





90° vertical bend, rising

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 110 S FS	100	1	120,100	**7007310**
RBV 120 S FS	200	1	151,300	**7007314**
RBV 130 S FS	300	1	182,400	**7007318**
RBV 140 S FS	400	1	213,600	**7007322**
RBV 150 S FS	500	1	244,800	**7007326**
RBV 155 S FS	550	1	260,400	**7007330**
RBV 110 S FT	100	1	120,000	**7007398**
RBV 120 S FT	200	1	163,000	**7007400**
RBV 130 S FT	300	1	182,400	**7007319**
RBV 140 S FT	400	1	231,000	**7007404**
RBV 150 S FT	500	1	244,800	**7007327**
RBV 155 S FT	550	1	260,400	**7007331**

St Steel /pc.

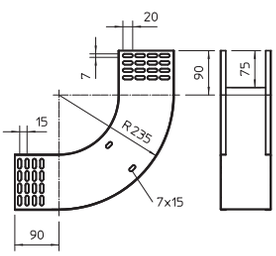
FS Strip-galvanised FT Hot-dip galvanised

The vertical bend is pushed over the end of the cable tray and screwed tight.

Fastening materials should be ordered separately.

90° rising vertical bend, for all cable tray types of 110 mm side height.

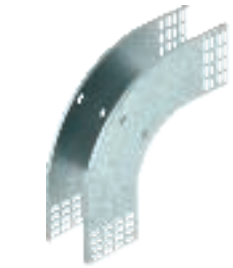


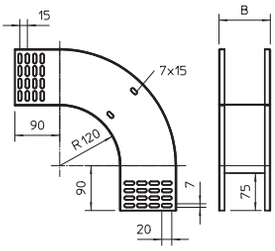


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Always indicate the item number when ordering.

90° vertical bend, falling





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 110 F FS	100	1	106,300	**7007350**
RBV 120 F FS	200	1	124,000	**7007354**
RBV 130 F FS	300	1	141,600	**7007358**
RBV 140 F FS	400	1	159,200	**7007362**
RBV 150 F FS	500	1	176,900	**7007366**
RBV 155 F FS	550	1	185,700	**7007370**
RBV 110 F FT	100	1	120,000	**7007468**
RBV 120 F FT	200	1	134,000	**7007470**
RBV 130 F FT	300	1	141,600	**7007359**
RBV 140 F FT	400	1	172,000	**7007474**
RBV 150 F FT	500	1	176,900	**7007367**
RBV 155 F FT	550	1	185,700	**7007371**

St Steel /pc.

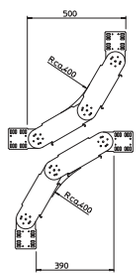
FS Strip-galvanised FT Hot-dip galvanised

The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

90° vertical bend, falling, for all cable tray types of 110 mm side height.

90° adjustable vertical bend





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGBV 110 FS	100	1	304,800	**7006624**
RGBV 120 FS	200	1	351,000	**7006640**
RGBV 130 FS	300	1	398,000	**7006667**
RGBV 140 FS	400	1	530,000	**7006683**
RGBV 150 FS	500	1	527,500	**7006705**
RGBV 155 FS	550	1	554,500	**7006713**
RGBV 110 FT	100	1	363,000	**7081103**
RGBV 120 FT	200	1	420,000	**7081200**
RGBV 130 FT	300	1	578,300	**7081308**
RGBV 140 FT	400	1	530,000	**7081405**
RGBV 150 FT	500	1	580,000	**7081502**
RGBV 155 FT	550	1	554,600	**7081553**

St Steel /pc.

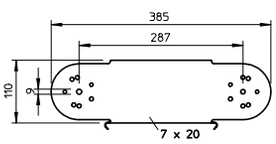
FS Strip-galvanised FT Hot-dip galvanised

The bend is shipped in an unmounted state. No additional fastening materials are required.

90° adjustable vertical bend, for all cable tray types with a side height of 110 mm.

Adjustable vertical bend element





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGBEV 110 FS	100	1	101,100	**7005628**
RGBEV 120 FS	200	1	119,600	**7005644**
RGBEV 130 FS	300	1	137,200	**7005660**
RGBEV 140 FS	400	1	157,500	**7005687**
RGBEV 150 FS	500	1	177,900	**7005709**
RGBEV 155 FS	550	1	204,900	**7005717**
RGBEV 110 FT	100	1	101,100	**7077106**
RGBEV 120 FT	200	1	119,600	**7077203**
RGBEV 130 FT	300	1	147,100	**7077300**
RGBEV 140 FT	400	1	156,700	**7077408**
RGBEV 150 FT	500	1	193,600	**7077505**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

RGV 110 adjustable connectors should be ordered separately and in the appropriate quantity.

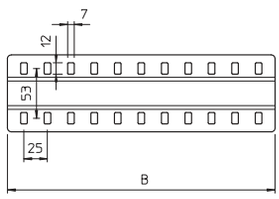
Adjustable vertical bend element, for all cable tray types with a side height of 110 mm.

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Joint plate

Type	Width mm	Quantity of screws pc.	Pack. pcs	Weight kg/100 pcs.	Item No.
SSLB 100 FS	85	2	20	7,700	**7070205**
SSLB 150 FS	135	2	20	12,200	**7070209**
SSLB 200 FS	185	2	20	16,700	**7070213**
SSLB 300 FS	285	3	20	25,700	**7070217**
SSLB 400 FS	385	4	20	34,700	**7070221**
SSLB 500 FS	485	5	20	43,700	**7070225**
SSLB 550 FS	535	5	20	48,200	**7070229**
SSLB 600 FS	585	6	20	52,700	**7070233**
SSLB 100 DD	85	2	20	7,700	**7070306**
SSLB 150 DD	135	2	20	12,200	**7070310**
SSLB 200 DD	185	2	20	16,700	**7070314**
SSLB 300 DD	285	3	20	25,700	**7070318**
SSLB 400 DD	385	4	20	34,700	**7070322**
SSLB 500 DD	485	5	20	43,700	**7070326**
SSLB 550 DD	535	5	20	48,200	**7070330**
SSLB 600 DD	585	6	20	52,700	**7070334**





St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

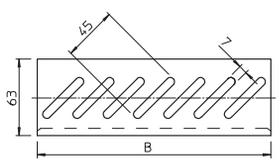
Including appropriate fastening material.

Wide joint plate for use in all cable trays and wide span cable trays.

Bottom end plate

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BEB 050 FS	50	100	2,500	**7083041**
BEB 100 FS	100	100	5,400	**7083106**
BEB 150 FS	150	100	8,400	**7083157**
BEB 200 FS	200	100	11,400	**7083203**
BEB 300 FS	300	100	17,200	**7083300**
BEB 400 FS	400	100	23,100	**7083408**
BEB 500 FS	500	50	29,000	**7083505**
BEB 550 FS	550	50	32,000	**7083556**
BEB 600 FS	600	50	35,000	**7083602**
BEB 050 DD	50	100	2,500	**7083616**
BEB 100 DD	100	100	5,400	**7083618**
BEB 150 DD	150	100	8,400	**7083622**
BEB 200 DD	200	100	11,400	**7083626**
BEB 300 DD	300	100	17,200	**7083630**
BEB 400 DD	400	100	23,100	**7083634**
BEB 500 DD	500	50	29,000	**7083638**
BEB 550 DD	550	50	32,000	**7083640**
BEB 600 DD	600	50	35,000	**7083642**





St Steel /pc.

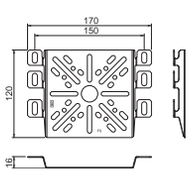
FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

For fastening, please order screws, type FRSB M6 x 12, separately.

Bottom end plate for floor reinforcement at the ends of the cable tray and as cable protection.

Mounting plate

Type	Height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MP UNI FS	115	170	40	13,300	**7084773**
MP UNI DD	115	170	40	13,300	**7085114**





St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

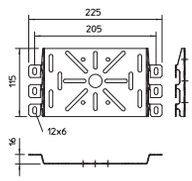
Please order the truss-head bolt, type FRSB 6 x 12, separately.

Mounting plate, for fastening on the side rail of cable support systems.

Always indicate the item number when ordering.

Mounting plate





Type	Height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MP 225 UNI FS	115	225	20	20,000	**7084870**

St Steel /pc.

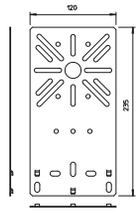
FS Strip-galvanised

Please order the truss-head bolt, type FRSB 6 x 12, separately.

Mounting plate for universal use on side rails of cable trays and mesh cable trays.

Mounting plate





Type	Height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MP FL FS	235	120	40	19,200	**7084757**
MP FL DD	235	120	40	19,200	**7085108**

St Steel /pc.

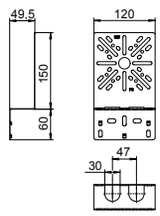
FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Please order the truss-head bolt, type FRSB 6 x 12, separately.

Flat mounting plate, for fastening on the side rail of the cable tray.

Mounting plate





Type	Height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MP WI KL. FS	210	120	20	20,200	**7084765**
MP WI KL. DD	210	120	20	20,200	**7085111**

St Steel /pc.

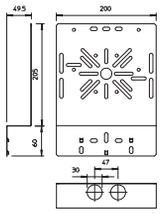
FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Please order the truss-head bolt, type FRSB 6 x 12, separately.

Angled mounting plate, for fastening on the side rail of the cable tray.

Mounting plate





Type	Height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MP WI GR. FS	240	200	25	40,000	**7084781**
MP WI GR. DD	240	200	25	40,000	**7085112**

St Steel /pc.

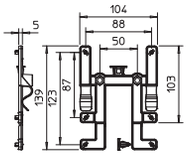
FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Please order the truss-head bolt, type FRSB 6 x 12, separately.

Angled mounting plate, for fastening on the side rail of the cable tray.

Fastening element for cable tray





Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
BE TS KR	10	10	2,800	**2007835**

PC Polycarbonate /100 pc.

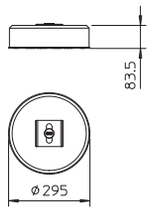
The fastening element BE TS KR can be used to attach OBO junction boxes, type T60 and T100, to all standard cable trays in a few actions, quickly and without tools.
This keeps the junction box securely in position. However, it can be quickly dismantled as necessary. This is all done without using tools.

04 KTS Masterkatalog Länder / en / 25/10/2016 (LLExport_04366) / 25/10/2016

Tray fastening system set 10 kg with TrayFix large

Type	From tray width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TrayFix-10-L	100	1	1.100,000	**5403101**

/pc.



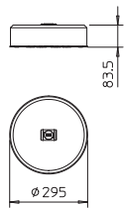


- Mounting system for the fastening of mesh cable trays and cable trays on FangFix stone e.g. cable routing on a flat roof.
- Adapted to OBO cable tray systems MKSM, SKSM and IKSM
- Adapted to OBO mesh cable tray systems with a minimum width of 100 mm
- Set consisting of TrayFix mounting adapter and concrete block including base for FangFix-System 10 kg

Tray fastening system set 10 kg with TrayFix small

Type	From tray width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TrayFix-10-S	100	1	1.000,000	**5403102**

/pc.



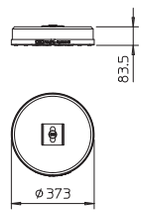


- Mounting system for the fastening of mesh cable trays and cable trays on FangFix stone e.g. cable routing on a flat roof.
- Adapted to OBO mesh cable systems with a minimum width of 100 mm
- Set consisting of clamping piece, fastening plug and concrete block including base for FangFix-System 10 kg

Tray fastening system set 16 kg with TrayFix large

Type	From tray width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TrayFix-16-L	100	1	1.700,000	**5403098**

/pc.



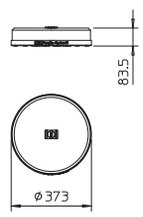


- Mounting system for the fastening of mesh cable trays and cable trays on FangFix stone e.g. cable routing on a flat roof.
- Adapted to OBO cable tray systems MKSM, SKSM and IKSM
- Adapted to OBO mesh cable tray systems with a minimum width of 100 mm
- Set consisting of TrayFix mounting adapter and concrete block including base for FangFix-System 16 kg

Tray fastening system set 16 kg with TrayFix small

Type	From tray width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TrayFix-16-S	100	1	1.700,000	**5403099**

/pc.





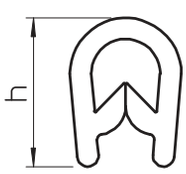
- Mounting system for the fastening of mesh cable trays and cable trays on FangFix stone e.g. cable routing on a flat roof.
- Adapted to OBO mesh cable systems with a minimum width of 100 mm
- Set consisting of clamping piece, fastening plug and concrete block including base for FangFix-System 16 kg

Edge protection strip

Type	For plate thickness mm	Dim. h mm	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
KSB 2 PVC	0.75 - 2	10	Black	10000	10	8,000	**6072909**
KSB 4 PVC	1.5 - 4	15	Black	10000	10	14,000	**6072895**

PVC Polyvinylchloride

price/100 m

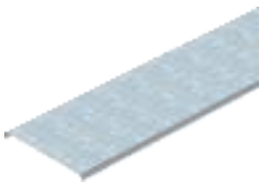


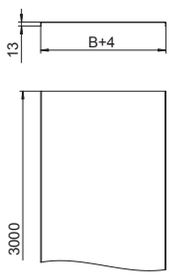


Edge protection strip with steel inlay to cover cut plate ends. Black, UV-resistant version.

Always indicate the item number when ordering.

Cover





Type	Width mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRLU 050 FS	50	0.75	3000	3	44,700	**6052056**
DRLU 100 FS	100	0.75	3000	3	98,670	**6052103**
DRLU 150 FS	150	0.75	3000	3	138,000	**6052153**
DRLU 200 FS	200	1	3000	3	177,670	**6052210**
DRLU 300 FS	300	1	3000	3	255,670	**6052307**
DRLU 400 FS	400	1	3000	3	334,670	**6052405**
DRLU 500 FS	500	1.25	3000	3	619,500	**6052512**
DRLU 550 FS	550	1.25	3000	3	678,340	**6052571**
DRLU 600 FS	600	1.25	3000	3	737,340	**6052609**
DRLU 050 DD	50	0.75	3000	3	59,670	**6052640**
DRLU 100 DD	100	0.75	3000	3	89,000	**6052643**
DRLU 150 DD	150	0.75	3000	3	138,340	**6052647**
DRLU 200 DD	200	1	3000	3	177,670	**6052650**
DRLU 300 DD	300	1	3000	3	256,000	**6052656**
DRLU 400 DD	400	1	3000	3	334,470	**6052662**
DRLU 500 DD	500	1.25	3000	3	619,340	**6052668**
DRLU 550 DD	550	1.25	3000	3	678,340	**6052671**
DRLU 600 DD	600	1.25	3000	3	737,270	**6052674**

St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

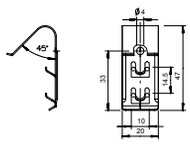
Transverse bead from 500 mm width.

Cover for cable trays and mesh cable trays.

When using covers outdoors, additional measures against the influence of wind must be taken. Cover clamps or turn buckles on their own are not sufficient securing elements against wind loads.

Cover clamp, universal





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DKU VA4310	20	0,800	**6065600**

V2A Stainless steel, grade 301 /100 pc.

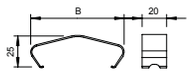
Depending on the tray width, 4–6 cover clamps are required for secure fastening of a 3 m cover.

Cover clamp for universal fastening of covers on cable trays, mesh cable trays and AZ channels.

The cover clamp is not suitable for use with mesh cable trays with a side height of 35 mm.

Cover clamp





Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DKL 35 VA4310	50.9	20	1,400	**6065503**
DKL 45 VA4310	60.9	20	1,600	**6065511**
DKL 60 VA4310	75.9	20	1,800	**6065538**
DKL 85 VA4310	95.9	20	2,100	**6065546**
DKL 110 VA4310	120.9	20	2,400	**6065554**

V2A Stainless steel, grade 301 /pc.

Cover clamp for additional fastening of the cover, e.g. in case of high wind load.

Cover clamp for secure fastening of covers on cable trays and cable ladders.

Always indicate the item number when ordering.

Cover with turn buckle

Type	Width mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRL 050 FS	50	0.75	3000	3	61,670	**6052053**
DRL 075 FS	75	0.75	3000	3	82,330	**6052029**
DRL 100 FS	100	0.75	3000	3	101,670	**6052096**
DRL 150 FS	150	1	3000	3	141,000	**6052150**
DRL 200 FS	200	1	3000	3	180,000	**6052207**
DRL 300 FS	300	1	3000	3	259,270	**6052304**
DRL 400 FS	400	1	3000	3	337,670	**6052401**
DRL 500 FS	500	1.25	3000	3	622,340	**6052509**
DRL 550 FS	550	1.25	3000	3	681,340	**6052568**
DRL 600 FS	600	1.25	3000	3	740,340	**6052606**
DRL 050 DD	50	0.75	3000	3	61,670	**6052700**
DRL 100 DD	100	0.75	3000	3	101,670	**6052703**
DRL 150 DD	150	1	3000	3	141,000	**6052706**
DRL 200 DD	200	1	3000	3	180,000	**6052709**
DRL 300 DD	300	1	3000	3	259,000	**6052712**
DRL 400 DD	400	1	3000	3	337,670	**6052715**
DRL 500 DD	500	1.25	3000	3	622,340	**6052718**
DRL 550 DD	550	1.25	3000	3	681,340	**6052721**
DRL 600 DD	600	1.25	3000	3	740,340	**6052724**
DRL 050 FT	50	0.75	3000	3	67,000	**6051332**
DRL 100 FT	100	0.75	3000	3	110,330	**6051340**
DRL 150 FT	150	1	3000	3	153,330	**6051359**
DRL 200 FT	200	1	3000	3	196,330	**6051367**
DRL 300 FT	300	1	3000	3	282,000	**6051383**
DRL 400 FT	400	1	3000	3	534,467	**6051413**
DRL 500 FT	500	1.5	3000	3	659,330	**6051448**
DRL 600 FT	600	1.5	3000	3	784,330	**6051472**

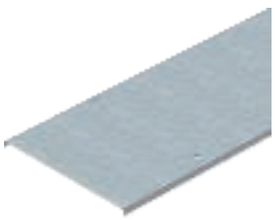
St Steel /m

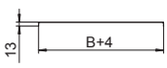
FS Strip-galvanised FT Hot-dip galvanised DD Strip galvanised zinc/aluminium, Double Dip

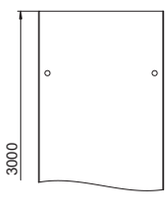
Transverse bead from 500 mm width.

Cover for cable trays and cable ladders with three pairs of turn buckles.

When using covers outdoors, additional measures against the influence of wind must be taken. Cover clamps or turn buckles on their own are not sufficient securing elements against wind loads.







Turn buckle

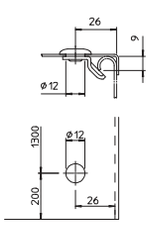
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DRL 311 FT	20	1,300	**6065007**

St Steel /pc.

FT Hot-dip galvanised

Single-sided turn buckle. Use for cover widths of 100 – 600 mm.

Turn buckle for additional installation or installation at a later date.





Turn buckle

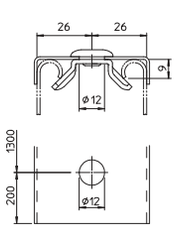
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DRL 311 2 FT	20	1,700	**6065147**

St Steel /pc.

FT Hot-dip galvanised

Turn buckle on both sides. Use for cover width of 50 mm.

Turn buckle for additional installation or installation at a later date.

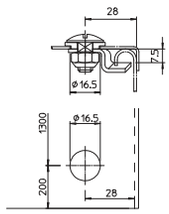




Always indicate the item number when ordering.

Turn buckle





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DRLM 316 DD	10	2,800	**6222366**

St Steel /pc.

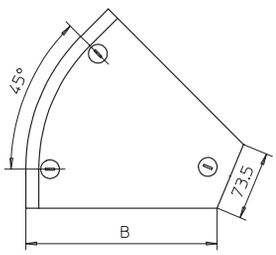
DD Strip galvanised zinc/aluminium, Double Dip

Single-sided turn-buckle. Use for cover widths of 50 – 600 mm.

Turn buckle for additional installation or installation at a later date.

Cover for 45° bend 100–300 mm





Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFB 45 100 FS	100	1	1	16,600	**7128819**
DFB 45 150 FS	150	1	1	24,600	**7128827**
DFB 45 200 FS	200	1	1	34,600	**7128835**
DFB 45 300 FS	300	1	1	57,600	**7128851**
DFB 45 050 DD	50	1	1	23,000	**7131801**
DFB 45 100 DD	100	1	1	16,600	**7131828**
DFB 45 150 DD	150	1	1	24,600	**7131836**
DFB 45 200 DD	200	1	1	34,600	**7131844**
DFB 45 300 DD	300	1	1	57,600	**7131860**

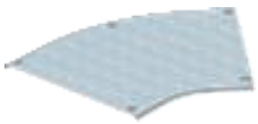
St Steel /pc.

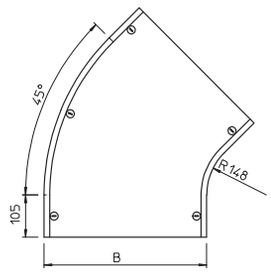
FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

The cover can be used with fittings of all side heights.

Cover for 45° bend with pre-mounted turn-buckle.

Cover for 45° bend 400–600 mm





Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFB 45 400 FS	400	1.25	1	197,600	**7128886**
DFB 45 500 FS	500	1.25	1	252,800	**7128908**
DFB 45 550 FS	550	1.25	1	282,700	**7128916**
DFB 45 600 FS	600	1.25	1	314,100	**7128924**
DFB 45 400 DD	400	1.25	1	197,600	**7131879**
DFB 45 500 DD	500	1.25	1	252,800	**7131887**
DFB 45 550 DD	550	1.25	1	282,700	**7131895**
DFB 45 600 DD	600	1.25	1	314,100	**7131909**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

The cover can be used with fittings of all side heights.

Cover for 45° bend with pre-mounted turn-buckle.

Always indicate the item number when ordering.

Cover for 90° bend 050–300 mm

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFB 90 100 FS	100	1	1	21,400	**7129610**
DFB 90 150 FS	150	1	1	37,600	**7129629**
DFB 90 200 FS	200	1	1	54,200	**7129637**
DFB 90 300 FS	300	1	1	96,400	**7129653**
DFB 90 050 DD	50	1	1	47,300	**7130503**
DFB 90 100 DD	100	1	1	21,400	**7130511**
DFB 90 150 DD	150	1	1	37,600	**7130538**
DFB 90 200 DD	200	1	1	54,200	**7130546**
DFB 90 300 DD	300	1	1	96,400	**7130562**

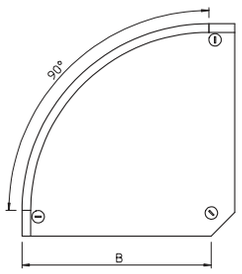
St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

The cover can be used with fittings of all side heights.

Cover for 90° bend with pre-mounted turn-buckles.





Cover for 90° bend 400–600 mm

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFB 90 400 FS	400	1.25	1	336,000	**7129688**
DFB 90 500 FS	500	1.25	1	451,000	**7129718**
DFB 90 550 FS	550	1.25	1	518,000	**7129726**
DFB 90 600 FS	600	1.25	1	585,000	**7129734**
DFB 90 400 DD	400	1.25	1	336,000	**7130589**
DFB 90 500 DD	500	1.25	1	451,000	**7130600**
DFB 90 550 DD	550	1.25	1	518,000	**7130619**
DFB 90 600 DD	600	1.25	1	585,000	**7130627**

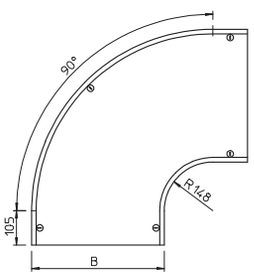
St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

The cover can be used with fittings of all side heights.

Cover for 90° bend with pre-mounted turn-buckles.





Cover for add-on tee 050–300 mm

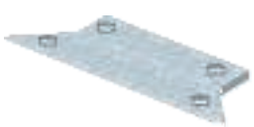
Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFAA 100 FS	100	1	1	19,000	**7128428**
DFAA 150 FS	150	1	1	24,000	**7128436**
DFAA 200 FS	200	1	1	28,000	**7128444**
DFAA 300 FS	300	1	1	37,000	**7128460**
DFAA 050 DD	50	1	1	14,000	**7131291**
DFAA 100 DD	100	1	1	19,000	**7131305**
DFAA 150 DD	150	1	1	24,000	**7131310**
DFAA 200 DD	200	1	1	28,000	**7131321**
DFAA 300 DD	300	1	1	37,000	**7131348**

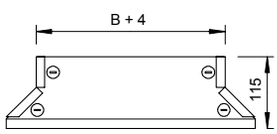
St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

The cover can be used with fittings of all side heights.

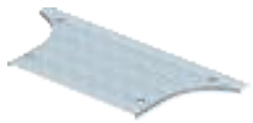
Cover for add-on tee with pre-mounted turn buckles.





Always indicate the item number when ordering.

Cover for add-on tee 400–600 mm



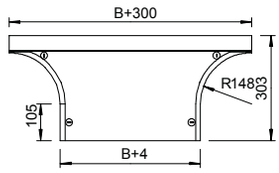
Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFAA 500 FS	500	1.25	1	170,000	**7128509**
DFAA 550 FS	550	1.25	1	185,000	**7128517**
DFAA 600 FS	600	1.25	1	200,000	**7128525**
DFAA 400 DD	400	1.25	1	152,000	**7131356**
DFAA 550 DD	550	1.25	1	187,000	**7131372**
DFAA 600 DD	600	1.25	1	202,000	**7131380**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

The cover can be used with fittings of all side heights.

Cover for add-on tee with pre-mounted turn buckles.



Cover for tee 50–300 mm



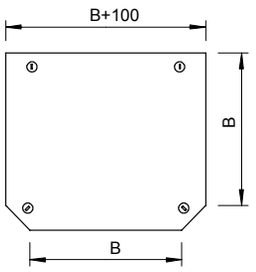
Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFT 100 FS	100	1	1	30,400	**7128215**
DFT 150 FS	150	1	1	40,000	**7128223**
DFT 200 FS	200	1	1	60,000	**7128231**
DFT 300 FS	300	1	1	115,000	**7128266**
DFT 050 DD	50	1	1	15,000	**7129300**
DFT 100 DD	100	1	1	27,000	**7129319**
DFT 150 DD	150	1	1	45,000	**7129327**
DFT 200 DD	200	1	1	65,000	**7129335**
DFT 300 DD	300	1	1	125,000	**7129351**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

The cover can be used with fittings of all side heights.

Cover for tee with pre-mounted turn-buckle.



Cover for tee 400–600 mm



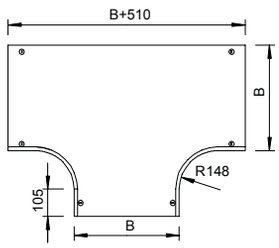
Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFT 400 FS	400	1.25	1	505,000	**7128282**
DFT 500 FS	500	1.25	1	670,000	**7128304**
DFT 600 FS	600	1.25	1	854,000	**7128320**
DFT 400 DD	400	1.25	1	600,000	**7129386**
DFT 500 DD	500	1.25	1	798,000	**7129408**
DFT 550 DD	550	1.25	1	905,500	**7129416**
DFT 600 DD	600	1.25	1	1.019,000	**7129424**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

The cover can be used with fittings of all side heights.

Cover for tee with pre-mounted turn-buckle.



Always indicate the item number when ordering.

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Cover for cross-over 50–300 mm

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFK 100 FS	100	1	1	30,000	**7128614**
DFK 150 FS	150	1	1	45,000	**7128622**
DFK 200 FS	200	1	1	70,000	**7128630**
DFK 300 FS	300	1	1	125,000	**7128657**
DFK 100 DD	100	1	1	33,000	**7131089**
DFK 200 DD	200	1	1	77,000	**7131100**
DFK 300 DD	300	1	1	137,000	**7131127**

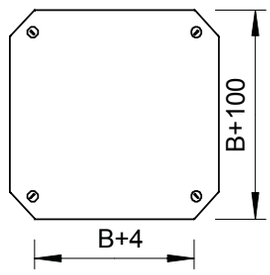
St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

The cover can be used with fittings of all side heights.

Cover for cross-over with pre-mounted turn-buckles.





Cover for cross-over 400–600 mm

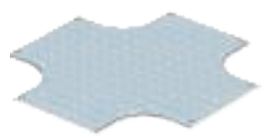
Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFK 400 FS	400	1.25	1	624,000	**7128673**
DFK 500 FS	500	1.25	1	810,000	**7128703**
DFK 600 FS	600	1.25	1	1.020,000	**7128738**
DFK 400 DD	400	1.25	1	739,000	**7131143**
DFK 500 DD	500	1.25	1	965,000	**7131178**
DFK 600 DD	600	1.25	1	1.215,000	**7131194**

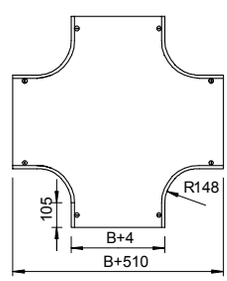
St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

The cover can be used with fittings of all side heights.

Cover for cross-over with pre-mounted turn-buckles.

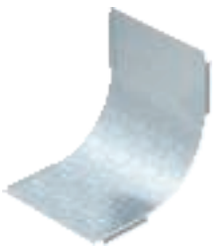


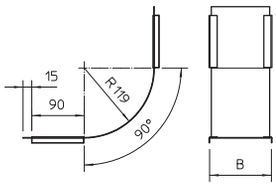


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Always indicate the item number when ordering.

Cover for 90° vertical bend, falling





Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBV 050 S FS	50	0.75	1	11,000	**7130801**
DBV 100 S FS	100	0.75	1	21,000	**7130805**
DBV 150 S FS	150	0.75	1	30,000	**7130809**
DBV 200 S FS	200	0.75	1	39,000	**7130813**
DBV 300 S FS	300	0.75	1	49,000	**7130817**
DBV 400 S FS	400	0.75	1	68,000	**7130821**
DBV 500 S FS	500	0.75	1	86,000	**7130825**
DBV 600 S FS	600	0.75	1	105,000	**7130829**
DBV 050 S DD	50	0.75	1	19,000	**7131506**
DBV 100 S DD	100	0.75	1	34,000	**7131508**
DBV 150 S DD	150	0.75	1	50,000	**7131509**
DBV 200 S DD	200	0.75	1	66,000	**7131510**
DBV 300 S DD	300	0.75	1	81,000	**7131514**
DBV 400 S DD	400	0.75	1	113,000	**7131518**
DBV 500 S DD	500	0.75	1	144,000	**7131524**
DBV 600 S DD	600	0.75	1	176,000	**7131527**

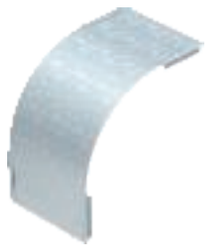
St Steel /pc.

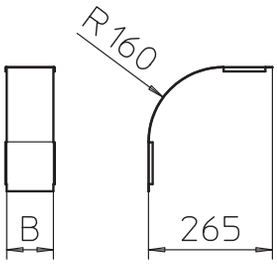
FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Cover for all rising vertical bends.

Cover for 90° vertical bend, falling, side height 35





Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBV 35 050 F FS	50	0.75	1	10,000	**7130760**
DBV 35 100 F FS	100	0.75	1	23,000	**7130764**
DBV 35 150 F FS	150	0.75	1	37,000	**7130768**
DBV 35 200 F FS	200	0.75	1	45,000	**7130772**
DBV 35 300 F FS	300	0.75	1	67,000	**7130776**
DBV 35 050 F DD	50	0.75	1	10,000	**7131590**
DBV 35 100 F DD	100	0.75	1	23,000	**7131592**
DBV 35 150 F DD	150	0.75	1	37,000	**7131594**
DBV 35 200 F DD	200	0.75	1	45,000	**7131596**
DBV 35 300 F DD	300	0.75	1	67,000	**7131600**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

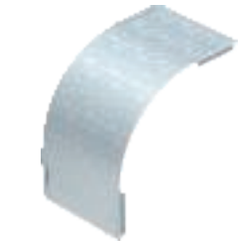
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

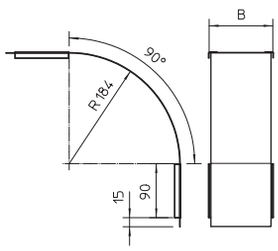
Cover for falling vertical bends of side height 35 mm.

Always indicate the item number when ordering.

Cover for 90° vertical bend, falling, side height 60

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBV 60 050 F FS	50	0.75	1	14,000	**7130847**
DBV 60 100 F FS	100	0.75	1	25,000	**7130852**
DBV 60 150 F FS	150	0.75	1	37,000	**7130856**
DBV 60 200 F FS	200	0.75	1	49,000	**7130860**
DBV 60 300 F FS	300	0.75	1	73,000	**7130864**
DBV 60 400 F FS	400	0.75	1	96,000	**7130868**
DBV 60 500 F FS	500	0.75	1	120,000	**7130872**
DBV 60 600 F FS	600	0.75	1	143,000	**7130876**
DBV 60 050 F DD	50	0.75	1	23,000	**7131630**
DBV 60 100 F DD	100	0.75	1	42,000	**7131632**
DBV 60 150 F DD	150	0.75	1	62,000	**7131634**
DBV 60 200 F DD	200	0.75	1	82,000	**7131636**
DBV 60 300 F DD	300	0.75	1	122,000	**7131640**
DBV 60 400 F DD	400	0.75	1	160,000	**7131644**
DBV 60 500 F DD	500	0.75	1	200,000	**7131648**
DBV 60 600 F DD	600	0.75	1	238,000	**7131652**





St Steel /pc.

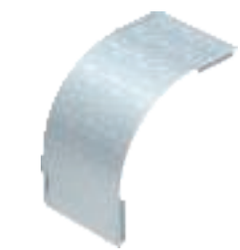
FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

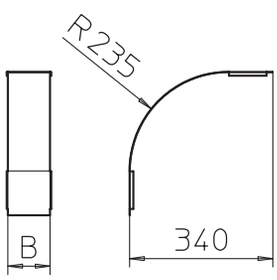
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Cover for falling vertical bends of side height 60 mm.

Cover for 90° vertical bend, falling, side height 85

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBV 85 100 F FS	100	0.75	1	27,100	**7130990**
DBV 85 200 F FS	200	0.75	1	52,500	**7130994**
DBV 85 300 F FS	300	0.75	1	78,000	**7130998**
DBV 85 400 F FS	400	0.75	1	103,000	**7131002**
DBV 85 500 F FS	500	0.75	1	128,500	**7131006**
DBV 85 600 F FS	600	0.75	1	153,900	**7131010**
DBV 85 100 F DD	100	0.75	1	45,200	**7131672**
DBV 85 200 F DD	200	0.75	1	87,500	**7131676**
DBV 85 300 F DD	300	0.75	1	130,000	**7131680**
DBV 85 400 F DD	400	0.75	1	172,000	**7131684**
DBV 85 500 F DD	500	0.75	1	214,200	**7131688**
DBV 85 600 F DD	600	0.75	1	256,000	**7131692**





St Steel /pc.

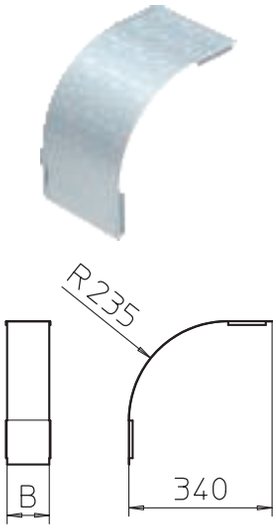
FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Cover for falling vertical bends of side height 85 mm.

Always indicate the item number when ordering.

Cover for 90° vertical bend, falling, side height 110



Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBV 110 100 F FS	100	0.75	1	29,000	**7131030**
DBV 110 150 F FS	150	0.75	1	42,600	**7131032**
DBV 110 200 F FS	200	0.75	1	56,200	**7131034**
DBV 110 300 F FS	300	0.75	1	83,400	**7131038**
DBV 110 400 F FS	400	0.75	1	110,600	**7131042**
DBV 110 500 F FS	500	0.75	1	137,800	**7131046**
DBV 110 550 F FS	550	0.75	1	151,400	**7131050**
DBV 110 600 F FS	600	0.75	1	165,000	**7131052**
DBV 110 100 F DD	100	0.75	1	48,300	**7131556**
DBV 110 150 F DD	150	0.75	1	71,000	**7131554**
DBV 110 200 F DD	200	0.75	1	93,700	**7131560**
DBV 110 300 F DD	300	0.75	1	139,000	**7131564**
DBV 110 400 F DD	400	0.75	1	184,300	**7131568**
DBV 110 500 F DD	500	0.75	1	229,700	**7131572**
DBV 110 550 F DD	550	0.75	1	252,300	**7131574**
DBV 110 600 F DD	600	0.75	1	275,000	**7131576**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Cover for falling vertical bends of side height 110 mm.

Always indicate the item number when ordering.

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Mobile radio tray MFR

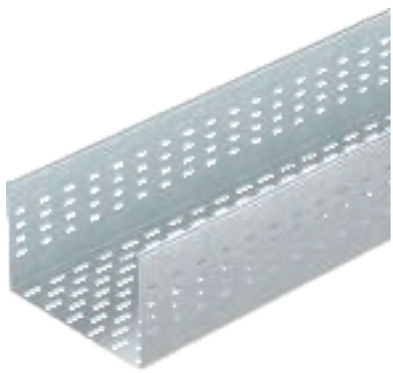
Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MFR 220 FT	200	1.5	3	723,340	**6083056**
MFR 230 FT	300	1.5	3	833,540	**6083060**
MFR 240 FT	400	1.5	3	937,840	**6083064**

St Steel /m

FT Hot-dip galvanised

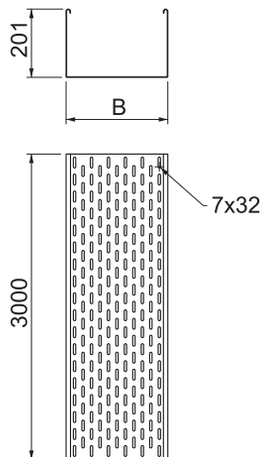
MFR = mobile radio tray

Magnetic shield insulation without cover 20 dB, with cover 50 dB.



Dimensions

Type	Length mm	Width mm	Useful cross-section cm²
MFR 220 FT	3000	200	400
MFR 230 FT	3000	300	600
MFR 240 FT	3000	400	800



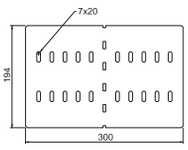
Straight and angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LWVM 200 FT	200	2	113,000	**6083200**

St Steel /pc.

FT Hot-dip galvanised

Usable as straight connector for straight connections of cable trays (FT) with a side height of 200 mm. Usable as angle connector for horizontal brackets without fittings.





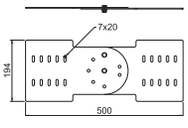
Adjustable connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GVM 200 FT	200	2	227,000	**6083210**

St Steel /pc.

FT Hot-dip galvanised

Adjustable connector for vertically rounded connections for cable trays (FT) with a side height of 200 mm.



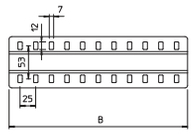


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Always indicate the item number when ordering.

Joint plate





Type	Width mm	Quantity of screws pc.	Pack. pcs	Weight kg/100 pcs.	Item No.
SSLB 200 DD	185	2	20	16,700	**7070314**
SSLB 300 DD	285	3	20	25,700	**7070318**
SSLB 400 DD	385	4	20	34,700	**7070322**

St Steel /pc.

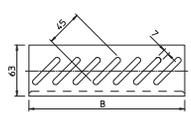
DD Strip galvanised zinc/aluminium, Double Dip

Including appropriate fastening material.

Wide joint plate for use in all cable trays and wide span cable trays.

Bottom end plate





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BEB 200 DD	200	100	11,400	**7083626**
BEB 300 DD	300	100	17,200	**7083630**
BEB 400 DD	400	100	23,100	**7083634**

St Steel /pc.

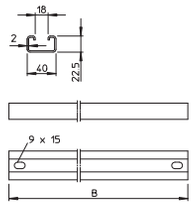
DD Strip galvanised zinc/aluminium, Double Dip

For fastening, please order screws, type FRSB M6 x 12, separately.

Bottom end plate for floor reinforcement at the ends of the cable tray and as cable protection.

Rung MS4022





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MS4022P0192FT	192	10	31,800	**6007201**
MS4022P0292FT	292	10	44,700	**6007228**
MS4022P0392FT	392	10	60,100	**6007236**

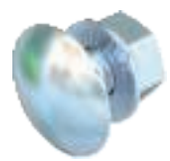
St Steel /pc.

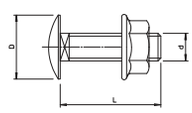
FT Hot-dip galvanised

Maximum rung load 175 kg - The appropriate U clamp is type 2056U.

MS4022 rung for use in heavy-duty vertical ladders.

Truss-head bolt with flange nut





Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRSB 6X20 F	M 6 x 20	20	6	13.5	100	1,000	**6406203**
FRSB 6X30 F	M6 x 30	30	6	13.5	100	1,200	**6406907**

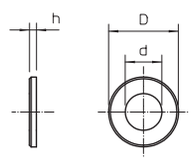
St Steel /100 pc.

F Hot-dip galvanised

Truss-head bolt with square neck including flange nut.

Large washer





Type	Thread	Dim. d mm	Dimension D mm	Dim. h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN440 7 F	M6	6.6	22	2	100	0,550	**6408702**

St Steel /100 pc.

F Hot-dip galvanised

Washer of particularly large outer diameter.

Always indicate the item number when ordering.

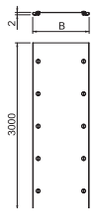
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Cover with turn buckle

Type	Width mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DMFR 200 FT	200	1.5	3000	3	208,000	**6083150**
DMFR 300 FT	300	1.5	3000	3	423,700	**6083152**
DMFR 400 FT	400	1.5	3000	3	545,100	**6083154**

St Steel /m

FT Hot-dip galvanised





Cover for mobile radio tray with five pairs of turn buckles.

When using covers outdoors, additional measures against the influence of wind must be taken. Cover clamps or turn buckles on their own are not sufficient securing elements against wind loads.



Always indicate the item number when ordering.



Cable tray systems

Always indicate the item number when ordering.

04 KTS Masterkatalog Leiter ... / 25/10/2016 (LExport_04366) / 25/10/2016

Cable tray systems, walkable



Cable tray BKRS 364



Accessories BKRS 368



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Cable tray BKRS, side height 100



Type	Width mm	Plate thickness mm	Length mm	Useful cross-section cm²	Pack. m	Weight kg/100 m	Item No.
BKRS 1010 FS	100	2	3000	84	3	485,670	**6062000**
BKRS 1020 FS	200	2	3000	171	3	638,740	**6062002**
BKRS 1030 FS	300	2	3000	258	3	789,040	**6062004**
BKRS 1040 FS	400	2	3000	345	3	936,670	**6062006**
BKRS 1050 FS	500	2	3000	432	3	1.086,970	**6062008**
BKRS 1060 FS	600	2	3000	519	3	1.239,940	**6062010**

St Steel /m

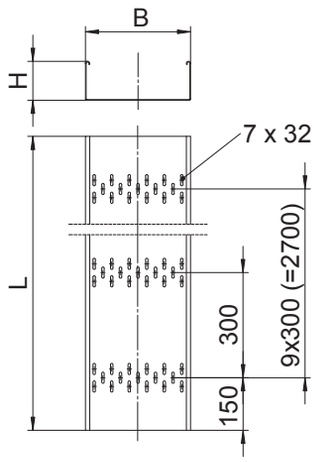
FS Strip-galvanised

The cable tray has connector perforations on both sides.
Straight connectors should be ordered separately and in the appropriate quantity.

Heavy-duty, walkable cable tray system BKRS with base perforation, in 100 mm side height.

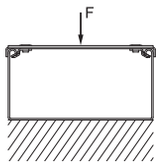
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Plate thickness mm	Dimension B mm	Side height mm	Dim. L mm
BKRS 1010 FS	2	100	100	3000
BKRS 1020 FS	2	200	100	3000
BKRS 1030 FS	2	300	100	3000
BKRS 1040 FS	2	400	100	3000
BKRS 1050 FS	2	500	100	3000
BKRS 1060 FS	2	600	100	3000

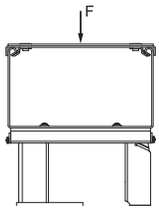
Installation



Floor mounting

Type	Support spacing in m	Approx. load in N
BKRS 1010	-	9000
BKRS 1020	-	9000
BKRS 1030	-	7000*
BKRS 1040	-	7000*
BKRS 1050	-	7000*
BKRS 1060	-	7000*

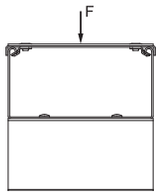
Testing based on DIN EN 50085-2-2



Installation on support bracket

Type	Support spacing in m	Approx. load in kN/m
BKRS 1010	1.2	4,9
BKRS 1020	1.2	4,6
BKRS 1030	1.2	4.2*
BKRS 1040	1.2	3.2*
BKRS 1050	1.2	2.9*
BKRS 1060	1.2	2.5*

Support element, type STE BKS FS, from 400 mm width



Installation on Z profile

Type	Support spacing in m	Approx. load in kN/m
BKRS 1010	1.2	4,9
BKRS 1020	1.2	4,6
BKRS 1030	1.2	4.2*
BKRS 1040	1.2	3.2*
BKRS 1050	1.2	2.9*
BKRS 1060	1.2	2.5*

*In order to archive the maximum permitted load, Z-shaped barrier strips must be placed in cable trays B > 200 mm. The distance between the barrier strips must not exceed 200mm.

Always indicate the item number when ordering.

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Straight and angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RLVL 85 FS	85	10	27,300	**6067123**

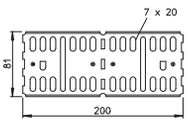
/pc.

St Steel

FS Strip-galvanised

Including appropriate fastening material.

Straight and angle connector for cable trays and fittings with a side height of 85 mm.





Straight and angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RLVL 100 FS	100	10	23,200	**6067870**

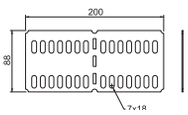
/pc.

St Steel

FS Strip-galvanised

Including appropriate fastening material.

Straight and angle connector for cable trays and fittings with a side height of 100 mm.





Barrier strip, Z form, side height 100

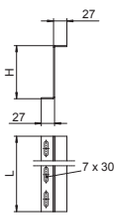
Type	Side height mm	Length mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
TSG100Z BKRS FS	100	3000	2	3	218,670	**6062390**

/m

St Steel

FS Strip-galvanised

Barrier strip for the BKRS walkable cable tray system. Attachment with truss-head screws M6 x 12 in the base perforation.





Truss-head bolt with flange nut

Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRSB 6X12 G	M 6 x 12	12	6	13.5	100	0,796	**6406130**

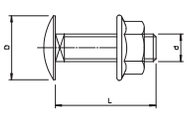
/100 pc.

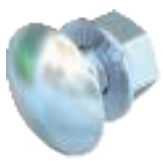
St Steel

G Electrogalvanised

For universal fastening of construction components. Permitted use of the article only in dry atmospheres.

Hot galvanised truss-head bolt with square neck including electrogalvanised flange nut.





Reducer/stop-end

Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWEB 1010 FS	100	100	1	13,600	**7111802**
RWEB 1020 FS	100	200	1	22,100	**7111804**
RWEB 1030 FS	100	300	1	30,600	**7111806**
RWEB 1040 FS	100	400	1	39,100	**7111808**
RWEB 1050 FS	100	500	1	47,600	**7111810**
RWEB 1060 FS	100	600	1	56,100	**7111812**

/pc.

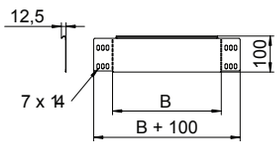
St Steel

FS Strip-galvanised

Including appropriate fastening material.

Reducer/stop-end for cable trays with side height 100 mm.





Always indicate the item number when ordering.

Cable tray BKRS, side height 110



Type	Width mm	Plate thickness mm	Length mm	Useful cross-section cm²	Pack. m	Weight kg/100 m	Item No.
BKRS 1110 FS	100	2	3000	96	3	523,670	**6061981**
BKRS 1120 FS	200	2	3000	196	3	672,670	**6061983**
BKRS 1130 FS	300	2	3000	296	3	822,000	**6061985**
BKRS 1140 FS	400	2	3000	396	3	971,670	**6061987**
BKRS 1150 FS	500	2	3000	496	3	1.121,000	**6061989**
BKRS 1160 FS	600	2	3000	596	3	1.270,340	**6061991**

St Steel /m

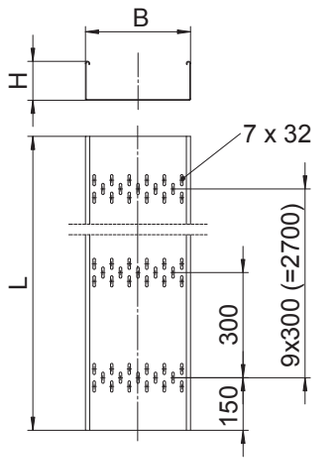
FS Strip-galvanised

The cable tray has connector perforations on both sides.
Straight connectors should be ordered separately and in the appropriate quantity.

Heavy-duty, walkable cable tray system BKRS with base perforation, in 110 mm side height.

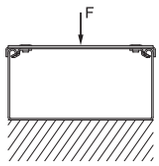
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Plate thickness mm	Dimension B mm	Side height mm	Dim. L mm
BKRS 1110 FS	2	100	110	3000
BKRS 1120 FS	2	200	110	3000
BKRS 1130 FS	2	300	110	3000
BKRS 1140 FS	2	400	110	3000
BKRS 1150 FS	2	500	110	3000
BKRS 1160 FS	2	600	110	3000

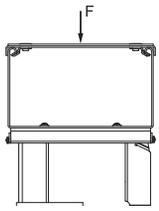
Installation



Floor mounting

Type	Support spacing in m	Approx. load in N
BKRS 1110	-	9000
BKRS 1120	-	9000
BKRS 1130	-	7000*
BKRS 1140	-	7000*
BKRS 1150	-	7000*
BKRS 1160	-	7000*

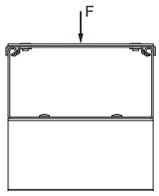
Testing based on DIN EN 50085-2-2



Installation on support bracket

Type	Support spacing in m	Approx. load in kN/m
BKRS 1110	1.2	4,9
BKRS 1120	1.2	4,6
BKRS 1130	1.2	4.2*
BKRS 1140	1.2	3,2*
BKRS 1150	1.2	2.9*
BKRS 1160	1.2	2.5*

Support element, type STE BKS FS, from 400 mm width



Installation on Z profile

Type	Support spacing in m	Approx. load in kN/m
BKRS 1110	1.2	4,9
BKRS 1120	1.2	4,6
BKRS 1130	1.2	4.2*
BKRS 1140	1.2	3.2*
BKRS 1150	1.2	2.9*
BKRS 1160	1.2	2.5*

*In order to archive the maximum permitted load, Z-shaped barrier strips must be placed in cable trays B > 200 mm. The distance between the barrier strips must not exceed 200mm.

Always indicate the item number when ordering.

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Straight and angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RLVL 110 FS	110	10	27,000	**6067131**

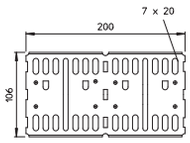
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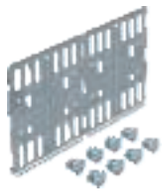
St Steel

FS Strip-galvanised

Including appropriate fastening material.

Straight and angle connector for cable trays and fittings with a side height of 110 mm.





Barrier strip, Z form, side height 110

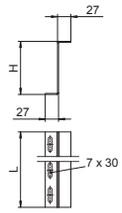
Type	Dim. L mm	Dimension H mm	Pack. m	Weight kg/100 m	Item No.
TSG110Z BKRS FS	3000	109	3	240,670	**6062391**

/m

St Steel

FS Strip-galvanised

Barrier strip for the BKRS walkable cable tray system. Attachment with truss-head screws M6 x 12 in the base perforation.





Truss-head bolt with flange nut

Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRSB 6X12 G	M 6 x 12	12	6	13.5	100	0,796	**6406130**

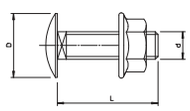
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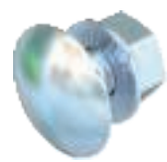
St Steel

G Electrogalvanised

For universal fastening of construction components. Permitted use of the article only in dry atmospheres.

Hot galvanised truss-head bolt with square neck including electrogalvanised flange nut.





Reducer/stop-end

Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWEB 110 FS	110	100	1	16,400	**7111096**
RWEB 120 FS	110	200	1	29,000	**7111207**
RWEB 130 FS	110	300	1	40,700	**7111304**
RWEB 140 FS	110	400	1	52,900	**7111428**
RWEB 150 FS	110	500	1	64,800	**7111509**
RWEB 160 FS	110	600	1	71,000	**7111740**

/pc.

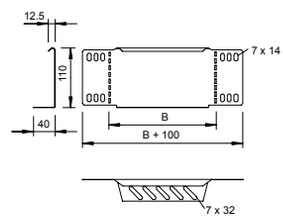
St Steel

FS Strip-galvanised

From a width of 150 mm, the perforated lower flange is provided.
Including appropriate fastening material.

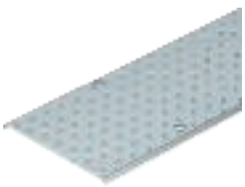
Reducer/stop-end for cable trays with side height 110 mm.





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Cover with chequer plate and turn buckle, turn buckle spacing 500 mm

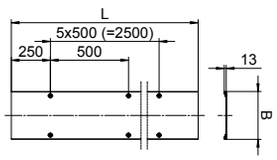


Type	Dimension B mm	Dim. L mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
DF BKR10 FS AL	100	3000	6	3	272,330	**6049181**
DF BKR20 FS AL	200	3000	6	3	503,670	**6049183**
DF BKR30 FS AL	300	3000	6	3	735,000	**6049185**
DF BKR40 FS AL	400	3000	6	3	966,670	**6049187**
DF BKR50 FS AL	500	3000	6	3	1.197,670	**6049189**
DF BKR60 FS AL	600	3000	6	3	1.429,000	**6049191**

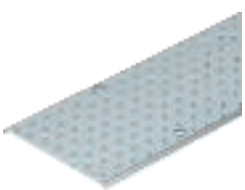
Alu/St Aluminium/Steel /m

Cable tray cover for the walkable cable BKRS cable tray system. The basic cover is strip galvanised in a material thickness of 2 mm with additional aluminium chequer riveted on in a thickness of 4 mm, sturdy and non-slip. Turn buckle fastening with a turn buckle distance of 500 mm.

When using covers outdoors, additional measures against the influence of wind must be taken. Cover clamps or turn buckles on their own are not sufficient securing elements against wind loads.



Cover with chequer plate and turn buckle, turn buckle spacing 1,000 mm

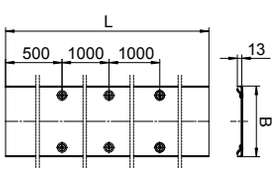


Type	Dimension B mm	Dim. L mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
DF BKR10 10 FSAL	100	3000	6	3	274,570	**6049200**
DF BKR20 10 FSAL	200	3000	6	3	505,900	**6049202**
DF BKR30 10 FSAL	300	3000	6	3	737,240	**6049204**
DF BKR40 10 FSAL	400	3000	6	3	968,570	**6049206**
DF BKR50 10 FSAL	500	3000	6	3	1.199,900	**6049208**
DF BKR60 10 FSAL	600	3000	6	3	1.431,240	**6049210**

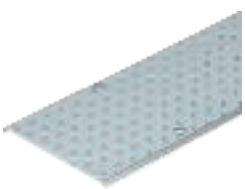
Alu/St Aluminium/Steel /m

Cable tray cover for the walkable cable BKRS cable tray system. The basic cover is strip galvanised in a material thickness of 2 mm with additional aluminium chequer riveted on in a thickness of 4 mm, sturdy and non-slip. Turn buckle fastening with a turn buckle distance of 1000 mm.

When using covers outdoors, additional measures against the influence of wind must be taken. Cover clamps or turn buckles on their own are not sufficient securing elements against wind loads.



Cover with chequer plate and turn buckle, turn buckle spacing 1,000 mm

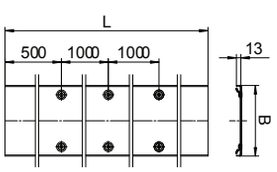


Type	Dimension B mm	Dim. L mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
DF BKR1010 4FSAL	100	3000	4	3	243,000	**6049110**
DF BKR2010 4FSAL	200	3000	4	3	442,340	**6049111**
DF BKR3010 4FSAL	300	3000	4	3	642,000	**6049112**
DF BKR4010 4FSAL	400	3000	4	3	841,340	**6049113**
DF BKR5010 4FSAL	500	3000	4	3	1.041,000	**6049114**
DF BKR6010 4FSAL	600	3000	4	3	1.240,340	**6049115**

Alu/St Aluminium/Steel /m

Cable tray cover for the walkable cable BKRS cable tray system. The basic cover is strip galvanised in a material thickness of 2 mm with additional aluminium chequer riveted on in a thickness of 2 mm, sturdy and non-slip. Turn buckle fastening with a turn buckle distance of 1000 mm.

When using covers outdoors, additional measures against the influence of wind must be taken. Cover clamps or turn buckles on their own are not sufficient securing elements against wind loads.



Always indicate the item number when ordering.

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Turn buckle

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DRL 311 FT	20	1,300	**6065007**

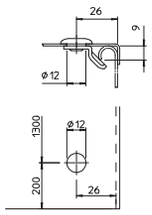
/pc.

St Steel

FT Hot-dip galvanised

Single-sided turn buckle. Use for cover widths of 100 – 600 mm.

Turn buckle for additional installation or installation at a later date.





Dust protection element

Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SSE BKR 100 FS	100	1	1,630	**6049261**
SSE BKR 200 FS	200	1	3,250	**6049263**
SSE BKR 300 FS	300	1	4,870	**6049265**
SSE BKR 400 FS	400	1	6,490	**6049267**
SSE BKR 500 FS	500	1	8,120	**6049269**
SSE BKR 600 FS	600	1	9,740	**6049271**

/pc.

St Steel

FS Strip-galvanised

Dust protection element for the insertion between aluminium chequer plate and basic cover in BKRS walkable cable tray systems providing protection against dust, chips, etc.





Cover support, side height 110

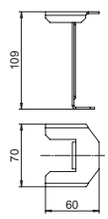
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DST110 BKRS FS	109	10	10,800	**6049256**

/pc.

St Steel

FS Strip-galvanised

Cover support for the walkable BKRS cable tray system, for additional support of covers and fitting covers at a side height of 110 mm.





Stand-off bracket

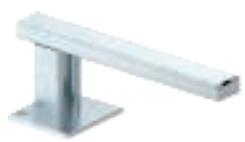
Type	Dimension B mm	Dimension b1 mm	Dimension b2 mm	Pack. pcs	Weight kg/100 pcs.	Item No.
STA BKS10 FT	97	13	43	1	69,500	**6044561**
STA BKS20 FT	197	13	143	1	84,900	**6044563**
STA BKS30 FT	297	25	231	1	100,300	**6044565**
STA BKS40 FT	397	25	331	1	115,600	**6044567**
STA BKS50 FT	497	125	331	1	131,000	**6044569**
STA BKS60 FT	597	225	331	1	146,400	**6044571**

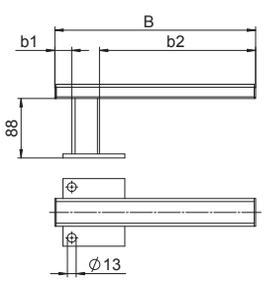
/pc.

St Steel

FT Hot-dip galvanised

Stand-off bracket for holding up the BKRS cable tray system from the floor.





Protective panel

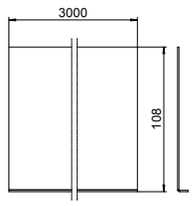
Type	Length mm	Height mm	Thickness mm	Pack. m	Weight kg/100 m	Item No.
SB BKS FS	3000	108	1	3	91,670	**6049252**

/m

St Steel

FS Strip-galvanised

Collision guard, to be attached at the side as a collision guard for the walkable BKRS cable tray system. The side height is 108 mm.

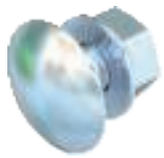


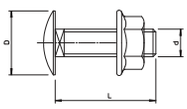


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Always indicate the item number when ordering.

Truss-head bolt





Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRSB 6X12 G	M 6 x 12	12	6	13.5	100	0,796	**6406130**

St Steel /100 pc.

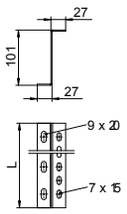
G Electrogalvanised

For universal fastening of construction components. Permitted use of the article only in dry atmospheres.

Hot galvanised truss-head bolt with square neck including electrogalvanised flange nut.

Support profile, side height 100





Type	Dim. L mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
STP Z 1010 FS	100	2	1	22,500	**6044581**
STP Z 1020 FS	200	2	1	44,800	**6044583**
STP Z 1030 FS	300	2	1	67,200	**6044585**
STP Z 1040 FS	400	2	1	89,500	**6044587**
STP Z 1050 FS	500	2	1	111,800	**6044589**
STP Z 1060 FS	600	2	1	134,200	**6044591**
STP Z 10300 FS	3000	2	3	670,200	**6044596**

St Steel /m /pc.

FS Strip-galvanised

Support profile for holding up the walkable cable tray system BKRS from the floor. Installation must be performed on both sides of the Z profile during the process of securing the system so that it is held up.

Anti-slip strip



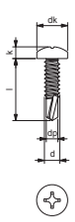
Type	Pack. m	Weight kg/100 m	Item No.
ARS BKR	11	10,070	**6049259**

GUM Rubber /m

Self-adhesive, anti-slip strip to stick onto the Z barrier strip in walkable cable trays, for securing laid-on but not yet attached covers.

Drilling screw





Type	Dimension mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BS BKS KP	M4, 2 x 16	100	0,180	**6049250**

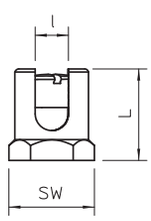
St Steel /100 pc.

G Electrogalvanised

Drilling screw according to DIN 7504.

Earthing terminal





Type	Cross-section mm²	SW mm	Thread	Accessories	Pack. pcs	Weight kg/100 pcs.	Item No.
EKL 25 M6	25	18	M6	–	50	3,100	**6404006**
EKL 35 M6	35	21	M6	–	50	4,800	**6404014**

CuZn Brass /100 pc.

Earthing screw for fastening the equipotential bonding wire to the cable support system.

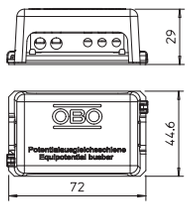
Always indicate the item number when ordering.

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Equipotential bonding rail for small systems

Type	Pack. pcs	Weight kg/100 pcs.	Item No.	
1809 BG	1	9,000	**5015502**	/pc.

CuZn Brass





- Cover hood made of polystyrene, grey
- Base plate made of strip galvanised steel
- Contact strip and screws made of nickel-plated brass

Connection options:
- 3 x multi-core cables to 6 mm²
- 2 x multi-core cables to 16 mm²

Always indicate the item number when ordering.



Mesh cable tray systems

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Mesh cable tray systems



Side height 35 mm 374



Side height 55 mm 376



Side height 105 mm 381



Side height 155 mm 383



Accessories for side height 35, 55, 105 mm 385



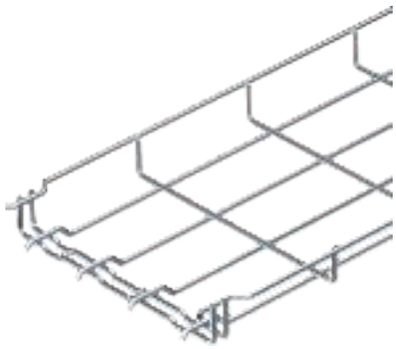
G mesh cable tray Magic 394



C mesh cable tray 398

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Mesh cable tray GR-Magic®



Type	Width mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
GRM 35 50 G	50	3.9	3	45,300	**6000060**
GRM 35 100 G	100	3.9	3	49,000	**6000062**
GRM 35 150 G	150	3.9	3	63,100	**6000063**
GRM 35 200 G	200	3.9	3	76,800	**6000064**
GRM 35 300 G	300	4.8	3	159,100	**6000066**
GRM 35 50 FT	50	3.9	3	45,610	**6000069**
GRM 35 100 FT	100	3.9	3	50,400	**6000071**
GRM 35 150 FT	150	3.9	3	64,500	**6000072**
GRM 35 200 FT	200	3.9	3	78,600	**6000073**
GRM 35 300 FT	300	4.8	3	162,700	**6000075**

St Steel /m

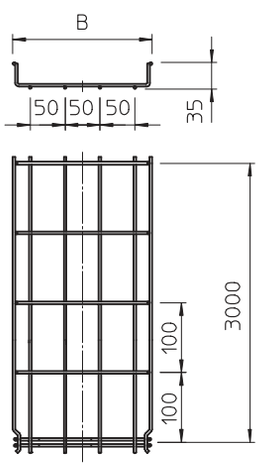
G Electrogalvanised FT Hot-dip galvanised

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 35/50 = 20 x 100 mm).

Mesh cable tray with shaped connector of side height 35 mm.

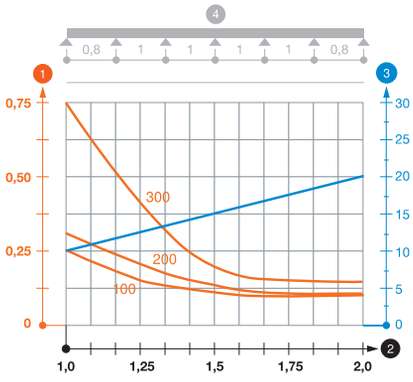
Magnetic shield insulation without cover 15 dB, with cover 25 dB.

Dimensions



Type	Length mm	Dimension B mm	Wire Ø mm	Useful cross-section cm²
GRM 35 50 G	3000	50	3.9	17.5
GRM 35 100 G	3000	100	3.9	35
GRM 35 150 G	3000	150	3.9	52.5
GRM 35 200 G	3000	200	3.9	70
GRM 35 300 G	3000	300	4.8	105

Load



Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
GRM 35 50 G	0.25	0.11	0.1
GRM 35 100 G	0.25	0.11	0.1
GRM 35 150 G	0.25	0.11	0.1
GRM 35 200 G	0.3	0.14	0.1
GRM 35 300 G	0.75	0.22	0.15

Load diagram, GR-Magic mesh cable tray, type GRM 35

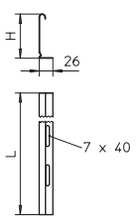
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Barrier strip





Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 30 FS	30	3000	3	38,000	**6062050**
TSG 30 DD	30	3000	3	38,000	**6062314**

St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.

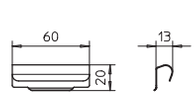
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Always indicate the item number when ordering.

Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**
V2A Stainless steel, grade 301			/pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.

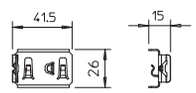




Hold-down clamp for barrier strip fastening

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS GR VA4310	30	0,830	**6062282**
V2A Stainless steel, grade 301			/100 pc.

Hold-down clamp for fastening barrier strips in mesh cable trays.

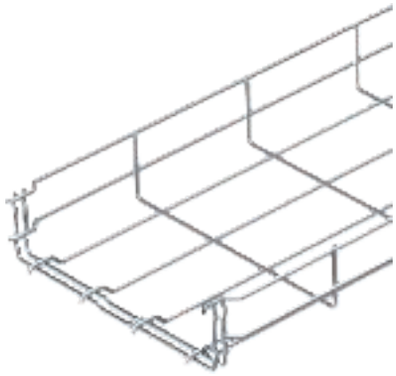




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Always indicate the item number when ordering.

Mesh cable tray GR-Magic®



Type	Width mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
GRM 55 100 F	100	3.9	3	72,000	**6001040**
GRM 55 150 F	150	3.9	3	85,700	**6001044**
GRM 55 200 F	200	3.9	3	99,000	**6001047**
GRM 55 300 F	300	4.8	3	191,100	**6001050**
GRM 55 400 F	400	4.8	3	234,600	**6001053**
GRM 55 500 F	500	4.8	3	276,400	**6001056**
GRM 55 600 F	600	4.8	3	318,400	**6001059**
GRM 55 50 G	50	3.9	3	67,000	**6001441**
GRM 55 100 G	100	3.9	3	72,400	**6001442**
GRM 55 150 G	150	3.9	3	85,700	**6001444**
GRM 55 200 G	200	3.9	3	100,667	**6001446**
GRM 55 200 4.8 G	200	4.8	3	151,000	**6001447**
GRM 55 300 G	300	4.8	3	194,900	**6001448**
GRM 55 400 G	400	4.8	3	236,700	**6001450**
GRM 55 500 G	500	4.8	3	279,000	**6001452**
GRM 55 600 G	600	4.8	3	321,200	**6001454**

St Steel /m

F Hot-dip galvanised G Electrogalvanised

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 55/50 = 20 x 100 mm).
Description, surface F = pre-galvanised wires according to DIN EN 10244/2 (surface approx. 10 µm).

Mesh cable tray with shaped connector of side height 55 mm.

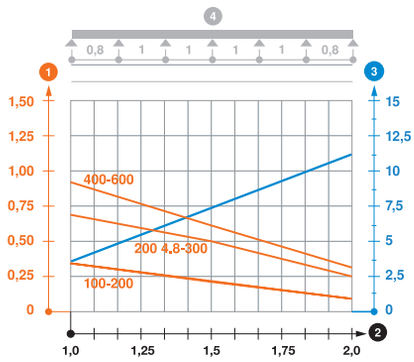
Magnetic shield insulation without cover 15 dB, with cover 25 dB. You can find detailed information regarding the UL classification in the respective certification.

Dimensions



Type	Length mm	Dimension B mm	Wire Ø mm	Useful cross-section cm²
GRM 55 100 F	3000	100	3.9	40
GRM 55 150 F	3000	150	3.9	63
GRM 55 200 F	3000	200	3.9	87
GRM 55 300 F	3000	300	4.8	129
GRM 55 400 F	3000	400	4.8	175
GRM 55 500 F	3000	500	4.8	220
GRM 55 600 F	3000	600	4.8	265

Load



Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
GRM 55 100 F	0.35	0.2	0.1
GRM 55 150 F	0.35	0.2	0.1
GRM 55 200 F	0.35	0.2	0.1
GRM 55 300 F	0.7	0.5	0.25
GRM 55 400 F	0.9	0.6	0.3
GRM 55 500 F	0.9	0.6	0.3
GRM 55 600 F	0.9	0.6	0.3

Load diagram, GR-Magic mesh cable tray, type GRM 55

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

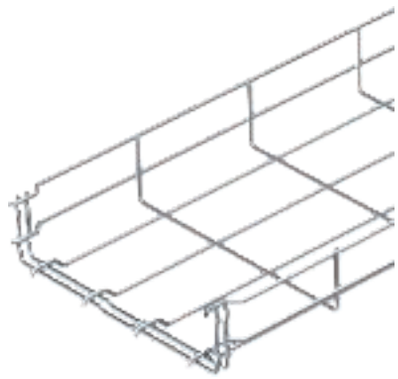
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Mesh cable tray GR-Magic®

Type	Width mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
GRM 55 50 FT	50	3.9	3	66,470	**6001415**
GRM 55 100 FT	100	3.9	3	75,667	**6001416**
GRM 55 150 FT	150	3.9	3	90,000	**6001418**
GRM 55 200 FT	200	3.9	3	104,667	**6001420**
GRM 55 200 4.8FT	200	4.8	3	154,300	**6001421**
GRM 55 300 FT	300	4.8	3	198,800	**6001424**
GRM 55 400 FT	400	4.8	3	244,300	**6001428**
GRM 55 500 FT	500	4.8	3	287,700	**6001432**
GRM 55 600 FT	600	4.8	3	331,600	**6001436**

St Steel /m

FT Hot-dip galvanised



No additional connection components are required for the mesh cable tray, it is simply interlocked.
The grid width is 50 x 100 mm (exception: GRM 55/50 = 20 x 100 mm).

Mesh cable tray with shaped connector of side height 55 mm.

Magnetic shield insulation without lid 15 dB, with lid 25 dB.
You can find detailed information regarding the UL classification in the respective certification.

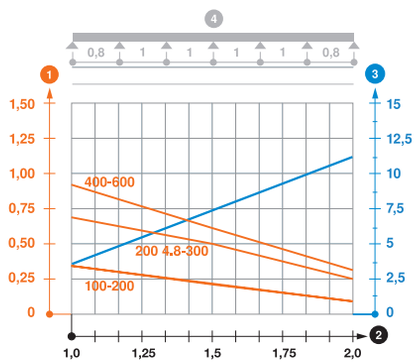
Dimensions

Type	Length mm	Dimension B mm	Wire Ø mm	Useful cross-section cm²
GRM 55 50 FT	3000	50	3.9	16
GRM 55 100 FT	3000	100	3.9	40
GRM 55 150 FT	3000	150	3.9	63
GRM 55 200 FT	3000	200	3.9	87
GRM 55 200 4.8FT	3000	200	4.8	87
GRM 55 300 FT	3000	300	4.8	129
GRM 55 400 FT	3000	400	4.8	175
GRM 55 500 FT	3000	500	4.8	220
GRM 55 600 FT	3000	600	4.8	265



Load

Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
GRM 55 50 FT	0.35	0.2	0.1
GRM 55 100 FT	0.35	0.2	0.1
GRM 55 150 FT	0.35	0.2	0.1
GRM 55 200 FT	0.35	0.2	0.1
GRM 55 200 4.8FT	0.7	0.5	0.25
GRM 55 300 FT	0.7	0.5	0.25
GRM 55 400 FT	0.9	0.6	0.3
GRM 55 500 FT	0.9	0.6	0.3
GRM 55 600 FT	0.9	0.6	0.3



Load diagram, GR-Magic mesh cable tray, type GRM 55

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

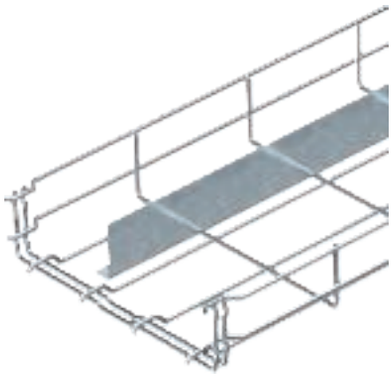
4 Load scheme during testing

Load curve with cable tray/ladder width in mm

Strut bend curve according to support width

Always indicate the item number when ordering.

Mesh cable tray GR-Magic® with barrier strip



Type	Length mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
GRM-T 55 100 G	3000	3.9	3	116,500	**6006453**
GRM-T 55 200 G	3000	3.9	3	144,100	**6006455**
GRM-T 55 300 G	3000	4.8	3	238,600	**6006456**
GRM-T 55 400 G	3000	4.8	3	280,800	**6006457**
GRM-T 55 500 G	3000	4.8	3	323,100	**6006458**

St Steel /m

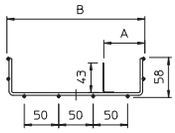
G Electrogalvanised

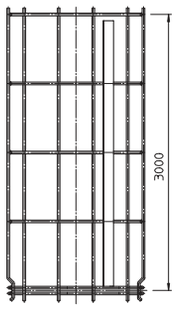
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

Mesh cable tray with shaped connector and welded barrier strips of side height 55 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

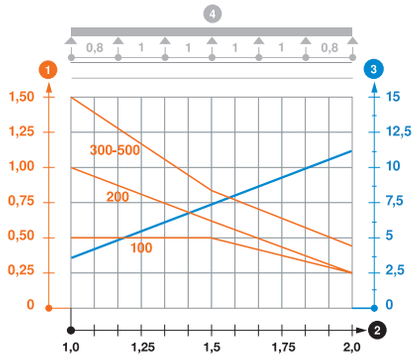
Dimensions





Type	Length mm	Dimension B mm	Wire Ø mm	Useful cross-section cm²
GRM-T 55 100 G	3000	100	3.9	40
GRM-T 55 200 G	3000	200	3.9	87
GRM-T 55 300 G	3000	300	4.8	129
GRM-T 55 400 G	3000	400	4.8	175
GRM-T 55 500 G	3000	500	4.8	220

Load



Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
GRM-T 55 100 G	0.5	0.5	0.25
GRM-T 55 200 G	1	0.6	0.25
GRM-T 55 300 G	1.5	0.8	0.4
GRM-T 55 400 G	1.5	0.8	0.4
GRM-T 55 500 G	1.5	0.8	0.4

Load diagram, GR-Magic mesh cable tray, type GRM-1T 55

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

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Mesh cable tray GR-Magic® with barrier strip

Type	Length mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
GRM-2T 55 200 G	3000	3.9	3	188,200	**6006395**
GRM-2T 55 300 G	3000	4.8	3	282,700	**6006396**
GRM-2T 55 400 G	3000	4.8	3	336,700	**6006397**
GRM-2T 55 500 G	3000	4.8	3	367,200	**6006468**

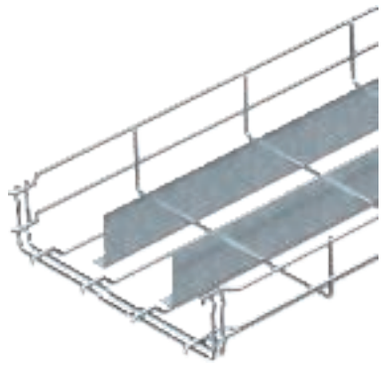
St Steel /m

G Electrogalvanised

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

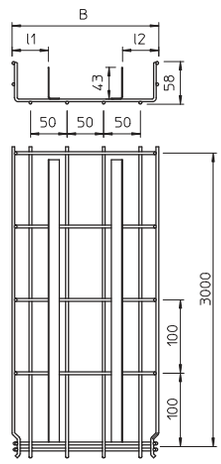
Mesh cable tray with shaped connector and two welded barrier strips of side height 55 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.



Dimensions

Type	Length mm	Dimension B mm	Wire Ø mm	Useful cross-section cm²
GRM-2T 55 200 G	3000	200	3.9	87
GRM-2T 55 300 G	3000	300	4.8	129
GRM-2T 55 400 G	3000	400	4.8	175
GRM-2T 55 500 G	3000	500	4.8	220



Load

Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
GRM-2T 55 200 G	2	1	0.4
GRM-2T 55 300 G	2.3	1.4	0.6
GRM-2T 55 400 G	2.3	1.4	0.6
GRM-2T 55 500 G	1.5	0.8	0.55

Load diagram, GR-Magic mesh cable tray, type GRM-2T 55

1 Permitted cable tray/ladder load in kN/m without man load

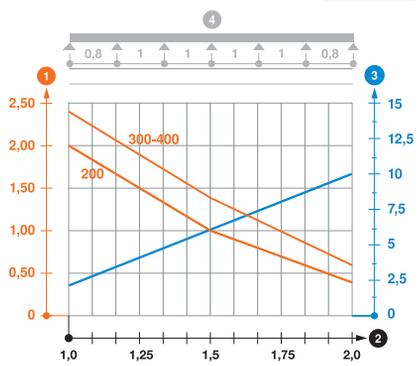
2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

Load curve with cable tray/ladder width in mm

Strut bend curve according to support width



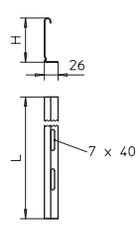
Barrier strip

Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 45 FS	45	3000	3	46,700	**6062033**
TSG 45 DD	45	3000	3	46,700	**6062321**

St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.



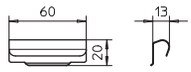


Always indicate the item number when ordering.

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Barrier strip connector





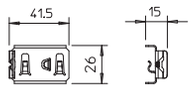
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**

V2A Stainless steel, grade 301 /pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.

Hold-down clamp for barrier strip fastening



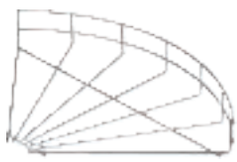


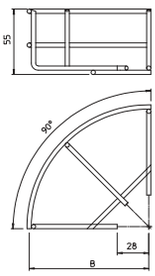
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS GR VA4310	30	0,830	**6062282**

V2A Stainless steel, grade 301 /100 pc.

Hold-down clamp for fastening barrier strips in mesh cable trays.

90° mesh cable tray bend





Type	Width mm	Wire Ø mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GRB 90 510 G	100	3.9	1	7,000	**6001920**
GRB 90 515 G	150	3.9	1	14,400	**6001998**
GRB 90 520 G	200	3.9	1	18,400	**6001939**
GRB 90 530 G	300	4.4	1	41,700	**6001947**
GRB 90 540 G	400	4.8	1	65,500	**6001955**
GRB 90 550 G	500	4.8	1	94,800	**6001963**
GRB 90 560 G	600	4.8	1	113,300	**6001971**
GRB 90 510 FT	100	3.9	1	7,500	**6002218**
GRB 90 515 FT	150	3.9	1	15,100	**6002222**
GRB 90 520 FT	200	3.9	1	19,300	**6002226**
GRB 90 530 FT	300	4.4	1	43,500	**6002234**
GRB 90 540 FT	400	4.8	1	68,000	**6002242**
GRB 90 550 FT	500	4.8	1	98,400	**6002250**
GRB 90 560 FT	600	4.8	1	113,700	**6002269**

St Steel /pc.

G Electrogalvanised FT Hot-dip galvanised

90° bend, horizontal, for all mesh cable trays of 55 mm side height.

Always indicate the item number when ordering.

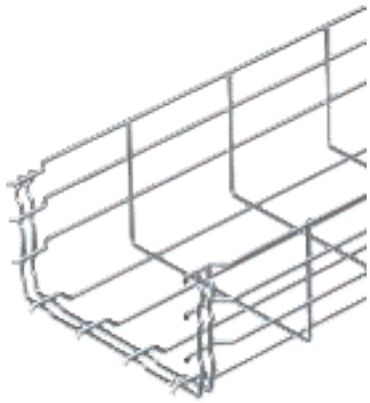
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Mesh cable tray GR-Magic®

Type	Length mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
GRM 105 100 G	3000	3.9	3	100,000	**6002402**
GRM 105 150 G	3000	3.9	3	110,600	**6002404**
GRM 105 200 G	3000	4.8	3	194,400	**6002406**
GRM 105 300 G	3000	4.8	3	236,700	**6002408**
GRM 105 400 G	3000	4.8	3	278,000	**6002410**
GRM 105 500 G	3000	4.8	3	319,000	**6002415**
GRM 105 600 G	3000	4.8	3	363,300	**6002417**
GRM 105 100 FT	3000	3.9	3	103,700	**6002431**
GRM 105 150 FT	3000	3.9	3	116,000	**6002433**
GRM 105 200 FT	3000	4.8	3	200,700	**6002435**
GRM 105 300 FT	3000	4.8	3	244,000	**6002437**
GRM 105 400 FT	3000	4.8	3	287,700	**6002439**
GRM 105 500 FT	3000	4.8	3	333,000	**6002443**
GRM 105 600 FT	3000	4.8	3	375,000	**6002445**

St Steel /m

G Electrogalvanised FT Hot-dip galvanised



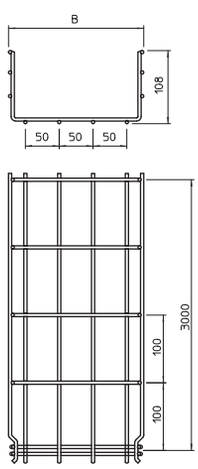
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

Mesh cable tray with shaped connector of side height 105 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

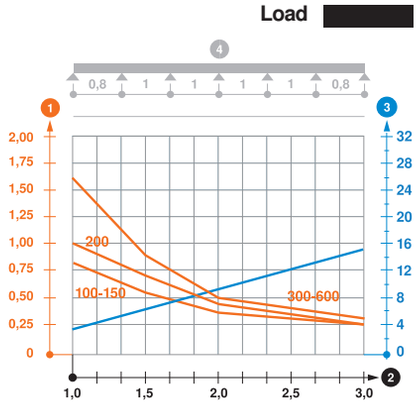
Dimensions

Type	Length mm	Dimension B mm	Wire Ø mm	Useful cross-section cm²
GRM 105 100 G	3000	100	3.9	82
GRM 105 150 G	3000	150	3.9	130
GRM 105 200 G	3000	200	4.8	175
GRM 105 300 G	3000	300	4.8	268
GRM 105 400 G	3000	400	4.8	363
GRM 105 500 G	3000	500	4.8	459
GRM 105 600 G	3000	600	4.8	554



Load

Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
GRM 105 100 G	0.8	0.55	0.37	0.25
GRM 105 150 G	0.8	0.55	0.37	0.25
GRM 105 200 G	1	0.7	0.4	0.25
GRM 105 300 G	1.6	0.8	0.5	0.3
GRM 105 400 G	1.6	0.8	0.5	0.3
GRM 105 500 G	1.6	0.8	0.5	0.3
GRM 105 600 G	1.6	0.8	0.5	0.3



Load diagram, mesh cable tray, type GRM 105

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

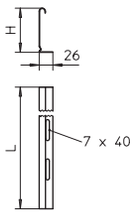
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

Barrier strip





Type	Dimension H mm	Plate thickness mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 85 FS	85	0.75	3000	3	70,300	**6062114**
TSG 85 DD	85	0.75	3000	3	70,300	**6062331**

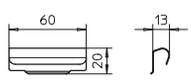
St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.

Barrier strip connector





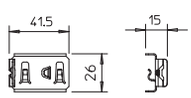
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**

V2A Stainless steel, grade 301 /pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.

Hold-down clamp for barrier strip fastening



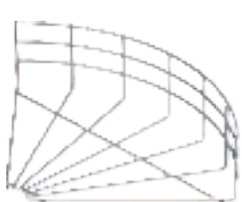


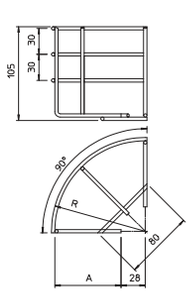
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS GR VA4310	30	0,830	**6062282**

V2A Stainless steel, grade 301 /100 pc.

Hold-down clamp for fastening barrier strips in mesh cable trays.

90° mesh cable tray bend





Type	Width mm	Wire Ø mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GRB 90 110 G	100	3.9	1	9,500	**6002370**
GRB 90 115 G	150	3.9	1	18,000	**6002372**
GRB 90 120 G	200	4.4	1	30,400	**6002374**
GRB 90 130 G	300	4.8	1	61,000	**6002376**
GRB 90 140 G	400	4.8	1	77,000	**6002378**
GRB 90 150 G	500	4.8	1	114,000	**6002382**
GRB 90 160 G	600	4.8	1	134,000	**6002384**
GRB 90 110 FT	100	3.9	1	10,000	**6002307**
GRB 90 115 FT	150	3.9	1	19,000	**6002311**
GRB 90 120 FT	200	4.4	1	36,000	**6002315**
GRB 90 130 FT	300	4.8	1	62,000	**6002323**
GRB 90 140 FT	400	4.8	1	81,900	**6002331**
GRB 90 150 FT	500	4.8	1	113,000	**6002358**
GRB 90 160 FT	600	4.8	1	133,000	**6002366**

St Steel /pc.

G Electrogalvanised FT Hot-dip galvanised

90° bend, horizontal, for all mesh cable trays of 105 mm side height.

Always indicate the item number when ordering.

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Mesh cable tray GR

Type	Length mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
GR 155 300 G	3000	6	3	426,340	**6003681**
GR 155 450 G	3000	6	3	524,670	**6003684**
GR 155 500 G	3000	6	3	557,340	**6003685**
GR 155 600 G	3000	6	3	622,340	**6003687**

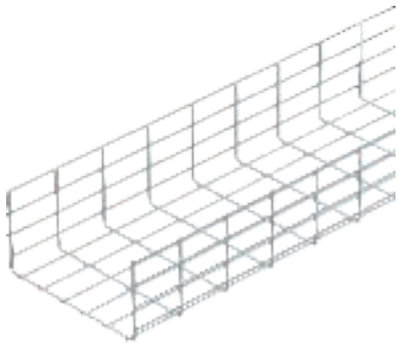
St Steel /m

G Electrogalvanised

The grid width is 50 x 100 mm.

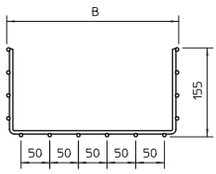
Mesh cable tray made of spot-welded steel wire of side height 155 mm.

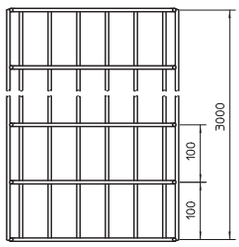
Magnetic shield insulation without cover 15 dB, with cover 25 dB.



Dimensions

Type	Length mm	Dimension B mm	Wire Ø mm	Useful cross-section cm²
GR 155 300 G	3000	300	6	438
GR 155 450 G	3000	450	6	663
GR 155 500 G	3000	500	6	738
GR 155 600 G	3000	600	6	888





Load

Type	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
GR 155 300 G	3	1.8	1
GR 155 450 G	3	1.8	1
GR 155 500 G	3	1.8	1
GR 155 600 G	1.56	1.5	1

1 Permitted cable tray/ladder load in kN/m without man load

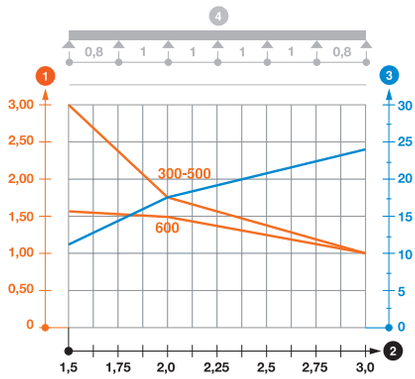
2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width



Joint connector

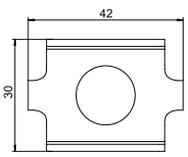
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GSV 6.0 G	20	5,000	**6016589**

St Steel /pc.

G Electrogalvanised

Including FRS M6 x 20 bolt with flange nut.

Screwed version of joint connector for mesh cable trays with 6.0 mm wire thickness.



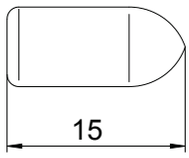


Always indicate the item number when ordering.

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End caps





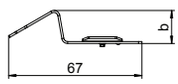
Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GR KS 6.0 OR	Pastel orange	500	0,036	**6003758**

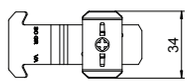
PE Polyethylene /100 pc.

End cap to cover cut wire ends of mesh cable trays.

Hold-down clip







Type	Dimension b mm	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
BC GR 6.0 VA	19	For wire thickness 6.0 mm	20	1,760	**6016668**

V2A Stainless steel, grade 301 /pc.

Hold-down clip for the screwless mounting of mesh cable trays onto MS profile rails.

Always indicate the item number when ordering.

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Mesh cable tray connector, long

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GRV 245 FS	245	20	13,500	**6016680**
GRV 245 DD	245	20	13,500	**6016684**

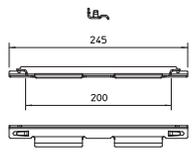
/pc.

St Steel

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Two straight connectors, type GRV 245, are used for each connection point.

Long mesh cable tray connection for screwless straight connection of mesh cable trays.





Quick connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GRS 3.9 DD	50	2,500	**6016545**
GRS 4.8 DD	50	2,500	**6016561**

/pc.

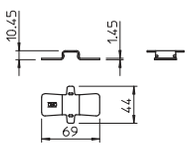
St Steel

DD Strip galvanised zinc/aluminium, Double Dip

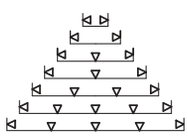
When selecting the connector, please take the appropriate wire thickness of the mesh cable tray into account.

Quick connector for screwless straight connection of mesh cable trays without special tools.

Figure: Positioning and quantity of mesh cable tray connectors.
50–150 mm = 2 units
400 mm = 3 units
450–600 mm = 5 units







Joint connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GSV 34 G	20	3,000	**6016596**
GSV 34 FT	20	3,000	**6016634**

/pc.

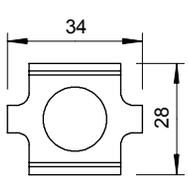
St Steel

G Electrogalvanised FT Hot-dip galvanised

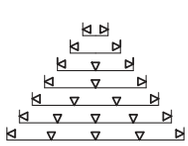
Including FRS M6 x 20 bolt with flange nut.

Screwed version of joint connector for mesh cable trays.

Figure: Positioning and quantity of mesh cable tray connectors.
50–150 mm = 2 units
400 mm = 3 units
450–600 mm = 5 units







Side connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
K 11 262 FT	25	7,500	**6015107**

/pc.

St Steel

FT Hot-dip galvanised

Including screw of type FRS M6 x 20.

Screwed version of joint connector for mesh cable trays.





Hold-down clamp

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GKS 34 G	20	2,000	**6016855**
GKS 34 FT	20	2,000	**6016820**

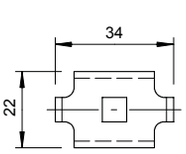
/pc.

St Steel

G Electrogalvanised FT Hot-dip galvanised

Including FRS M6 x 20 bolt with nut-and-washer assembly.

Clamp for fixing mesh cable trays to wall or support brackets.

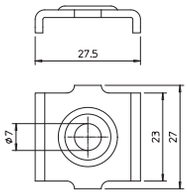




Always indicate the item number when ordering.

Hold-down clamp





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GKB 34 G	20	1,000	**6016674**
GKB 34 VA4301	20	1,000	**6016676**

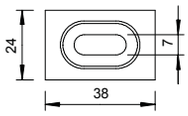
St Steel V2A Stainless steel, grade 304 /pc.

G Electrogalvanised

Clamp for fastening mesh cable trays of width 50 mm to the floor.

Hold-down clamp





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GKT 38 G	20	2,300	**6017037**
GKT 38 FT	20	2,400	**6017061**

St Steel /pc.

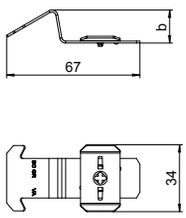
G Electrogalvanised FT Hot-dip galvanised

Including FRS M6 x 20 bolt with flange nut.

Clamp for fastening barrier strip in mesh cable trays.

Hold-down clip





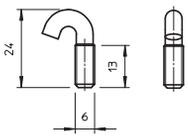
Type	Dimension b mm	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
BC GR 4.8 VA	17	For 3.9 and 4.8 mm wires	20	1,760	**6016665**

V2A Stainless steel, grade 301 /pc.

Hold-down clip for the screwless mounting of mesh cable trays onto MS profile rails.

Hook screw





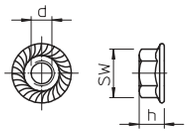
Type	Thread	Pack. pcs	Weight kg/100 pcs.	Item No.
HS M6x13 A2	M6	100	0,500	**1154990**

V2A Stainless steel, A2 /100 pc.

Hook screw for fastening cable tracks on the bracket.

Flange nut





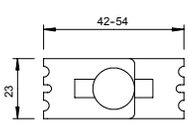
Type	Dim. d mm	Dim. h mm	SW mm	Grade	Pack. pcs	Weight kg/100 pcs.	Item No.
KM M6 A2	6	6	10	A2-70	100	0,315	**6408966**

V2A Stainless steel, A2 /100 pc.

Flange nut with pressed washer in accordance with EN 1661.

Corner connector





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GEV 36 G	20	3,000	**6016715**
GEV 36 FT	20	3,000	**6016723**

St Steel /pc.

G Electrogalvanised FT Hot-dip galvanised

Including FRS M6 x 12 bolt with flange nut

Corner connector for the creation of mesh cable tray bend elements.

Always indicate the item number when ordering.

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Slotted steel strap

Type	Dimension mm	Dimension b mm	Dim. d mm	Dimension e mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
5050 20X3 FT	20 x 3	20	6.5	40	270	20	9,450	**1466500**
5050 20X3 1M FT	20 x 3	20	6.5	40	1000	20	35,000	**1466504**

St Steel /100 pc.

FT Hot-dip galvanised

Perforated slotted steel strap in strips.





90° splice bracket kit

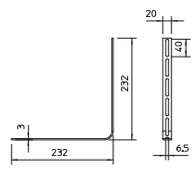
Type	Dimension mm	Pack. pcs	Weight kg/100 pcs.	Item No.
5050 20X3 FT	20x3 –	25	23,000	**6017371**

St Steel /pc.

FT Hot-dip galvanised

Set includes four clamps, type GKS 34.

Bent slotted steel strap for creation of bends and tees.





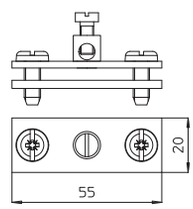
Earthing clip

Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
939	150	25	5,932	**5043107**

St Steel /100 pc.

G Electrogalvanised

- For cables to 16 mm² and flat conductors
- Fit: cable to 16 mm² x max. FL 30
- With riveted brass connection terminal and one cylinder bolt, M5 x 12, with two cylinder bolts, M6 x 16





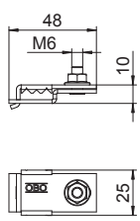
Grounding clamp

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VEK-GRM 3.9 FS	25	3,850	**6016694**
VEK-GRM 4.8 FS	25	3,800	**6016696**

St Steel /pc.

FS Strip-galvanised

The connection and earthing terminal is used to reduce electrical resistance and therefore improves the electric conductivity in mesh cable systems in the area of the joint allowing to fulfil the high demands in terms of the transition resistance according to e.g. NEMA and CSA. Furthermore, the connection and earthing terminal is compulsary when used as a protective conductor in a mesh cable tray system (Note: National regulations have to be followed when creating such a system).



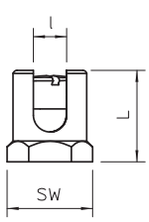


Earthing screw

Type	Cross-section mm²	SW mm	Thread	Accessories	Pack. pcs	Weight kg/100 pcs.	Item No.
EKL 25 M6	25	18	M6	–	50	3,100	**6404006**
EKL 35 M6	35	21	M6	–	50	4,800	**6404014**

CuZn Brass /100 pc.

Earthing screw for fastening the equipotential bonding wire to the cable support system.

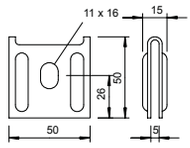




Always indicate the item number when ordering.

Wall clamp / central hanger





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
K 12 1818 FS	25	7,600	**6437109**
K12 1818 VA4301	25	7,600	**6016421**

St Steel V2A Stainless steel, grade 304 /pc.

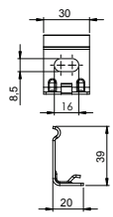
FS Strip-galvanised

Recommendation:
As wall mounting up to max. mesh cable tray width 200 mm.
As centre suspension up to max. mesh cable tray width 200 mm.

As a trapeze suspension from a width of 300 mm.
Wall clamp and central hanger for mesh cable trays.

Wall mounting for type GRM 35 x 50





Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WH GRM35 FT	35	50	10	1,950	**6016443**

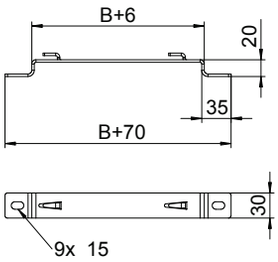
St Steel /pc.

FT Hot-dip galvanised

Wall mounting for wall fastening of mesh cable trays, type GRM 35 x 50

Stand-off bracket





Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBLG 20 050 FS	50	20	10,300	**6015646**
DBLG 20 100 FS	100	20	13,800	**6015654**
DBLG 20 150 FS	150	20	17,400	**6015658**
DBLG 20 200 FS	200	20	20,900	**6015662**
DBLG 20 300 FS	300	20	37,300	**6015670**
DBLG 20 400 FS	400	20	46,700	**6015689**
DBLG 20 500 FS	500	25	56,900	**6015693**
DBLG 20 600 FS	600	25	66,400	**6015697**
DBLG 20 050 FT	50	20	10,700	**6015648**
DBLG 20 100 FT	100	20	14,300	**6015656**
DBLG 20 150 FT	150	20	18,100	**6015660**
DBLG 20 200 FT	200	20	21,700	**6015664**
DBLG 20 300 FT	300	20	38,800	**6015672**
DBLG 20 400 FT	400	20	48,600	**6015691**
DBLG 20 500 FT	500	25	59,200	**6015695**
DBLG 20 600 FT	600	25	69,100	**6015699**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Screwless fastening of the mesh cable tray on the stand-off bracket.
Stand-off bracket for stand-off of mesh cable trays on the floor or on the wall.

Threaded rod





Type	Thread	Dim. d mm	Dim. L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2078 M8 1M G	M8	8	1000	10	30,000	**3141128**
2078 M10 1M G	M10	10	1000	10	49,000	**3141209**
2078 M12 1M G	M12	12	1000	10	62,000	**3141306**

St Steel /100 pc.

G Electrogalvanised

Threaded rod to DIN 976.

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Threaded rod VA

Type	Thread	Dim. d mm	Dim. L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2078 M8 1M V2A	M8	8	1000	10	30,000	**3141310**
2078 M10 1M V2A	M10	10	1000	10	49,000	**3141312**
2078 M12 1M V2A	M12	12	1000	10	70,000	**3141314**

V2A Stainless steel, grade 304 /100 pc.

Threaded rod to DIN 976.





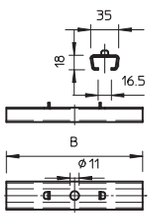
Central suspension

Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 170 FS	170	25	20,000	**6015400**
GMS 270 FS	270	25	32,000	**6015402**
GMS 370 FS	370	25	43,000	**6015404**
GMS 470 FS	470	10	55,000	**6015406**
GMS 570 FS	570	10	67,000	**6015408**

St Steel /pc.

FS Strip-galvanised

Central hanger including clamp for mesh cable tray suspensions.



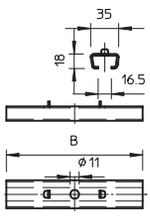


Central suspension VA

Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 170 VA4404	170	25	20,000	**6015418**
GMS 270 VA4404	270	25	32,000	**6015419**
GMS 370 VA4404	370	25	43,000	**6015420**
GMS 470 VA4404	470	10	55,000	**6015421**
GMS 570 VA4404	570	10	67,000	**6015422**

V4A Stainless steel, grade 316 L /pc.

Central hanger including clamp for mesh cable tray suspensions.





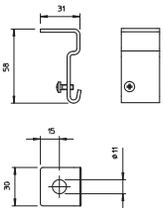
Side holder

Type	For threaded rod	Pack. pcs	Weight kg/100 pcs.	Item No.
SH M10 FS	M10	50	5,800	**6015336**
SH M10 FT	M10	50	6,000	**6015338**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Side holder for suspension of mesh cable trays.





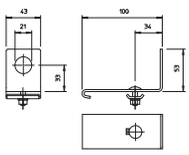
Conduit take-off bracket

Type	Hole-Ø mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SH KAB 20 FS	20	10	15,000	**6015425**
SH KAB 25 FS	25	10	14,700	**6015433**

St Steel /pc.

FS Strip-galvanised

Conduit take off bracket with perforation for accepting cable glands.



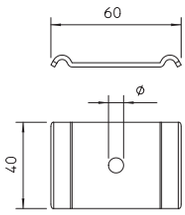


Always indicate the item number when ordering.

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Hold-down clamp





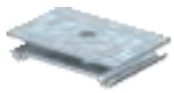
Type	Hole-Ø mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GKS 50 07 FS	7	50	4,000	**6015263**
GKS 50 11 FS	11	50	4,000	**6015276**
GKS 50 07 FT	7	50	4,100	**6015271**
GKS 50 11 FT	11	50	4,100	**6015278**

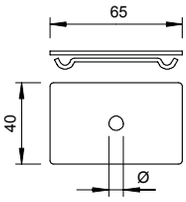
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Hold-down clamp for fastening mesh cable trays on the ground or on stand-off brackets of type DBL.

Central suspension





Type	Hole-Ø mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GMA M6 FS	7	25	8,000	**6015220**
GMA M8 FS	9	25	8,300	**6015239**
GMA M10 FS	11	25	8,300	**6015247**
GMA M6 FT	7	25	8,400	**6015224**
GMA M8 FT	9	25	8,300	**6015243**
GMA M10 FT	11	25	8,400	**6015255**

St Steel /pc.

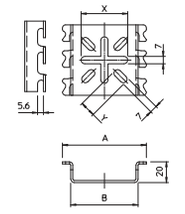
FS Strip-galvanised FT Hot-dip galvanised

When filling with cables, please ensure an even distribution. The maximum recommended mesh cable tray width is 200 mm.

Two-part centre suspension of mesh cable trays.

Mounting plate





Type	Dimension A mm	Dimension B mm	Dimension x mm	Dimension y mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MPG 65 FT	81	65	45	15	30	9,200	**6006486**
MPG 90 FT	111	95	45	38	30	16,800	**6006487**

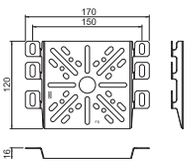
St Steel /pc.

FT Hot-dip galvanised

Mounting for screwless fastening on mesh cable trays.

Mounting plate





Type	Height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MP UNI FS	115	170	40	13,300	**7084773**
MP UNI DD	115	170	40	13,300	**7085114**

St Steel /pc.

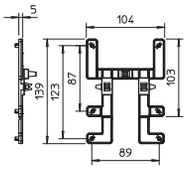
FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Please order the truss-head bolt, type FRSB 6 x 12, separately.

Mounting plate, for fastening on the side rail of cable support systems.

Fastening element for mesh cable tray





Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
BE TS GR	10	10	2,300	**2007833**

PC Polycarbonate /100 pc.

The fastening element BE TS GR can be used to attach OBO junction boxes, type T60 and T100, to all standard mesh cable trays quickly and in a few actions. This is all done without using tools. This keeps the junction box securely in position. However, it can be quickly dismantled as necessary.

Always indicate the item number when ordering.

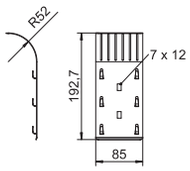
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Drop-out plate

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KAB GR FS	10	14,100	**6220139**
KAB GR FT	10	14,100	**6220142**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

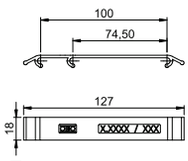




The cable drop-out plate allows compliance with specific bend radii (fibre-optic cables), thus preventing possible cable breaks. Can be mounted in a lengthwise direction and at the side, can be arranged for greater widths.

Drop-out plate for mesh cable trays.

Identification clip











Type	KS GR OR	KS GR ZGB	KS GR LBL	KS GR SGN
Colour	Pastel orange	Zinc yellow	Light blue	Signal green
Weight kg/100 pcs.	0.92	0.92	0.92	0.92
Pack. pcs	10	10	10	10
Item No.	**6017712**	**6017713**	**6017714**	**6017715**

PA Polyamide /pc.

The identification clip is fastened to the mesh cable tray without screws simply by attaching it.

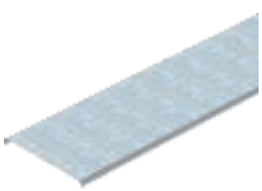
Identification clip for screwless fastening on mesh cable trays.

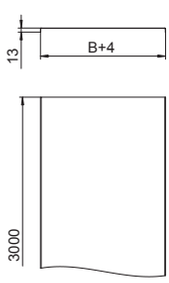
Cover

Type	Width mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRLU 050 FS	50	0.75	3000	3	44,700	**6052056**
DRLU 100 FS	100	0.75	3000	3	98,670	**6052103**
DRLU 150 FS	150	0.75	3000	3	138,000	**6052153**
DRLU 200 FS	200	1	3000	3	177,670	**6052210**
DRLU 300 FS	300	1	3000	3	255,670	**6052307**
DRLU 400 FS	400	1	3000	3	334,670	**6052405**
DRLU 500 FS	500	1.25	3000	3	619,500	**6052512**
DRLU 600 FS	600	1.25	3000	3	737,340	**6052609**
DRLU 050 DD	50	0.75	3000	3	59,670	**6052640**
DRLU 100 DD	100	0.75	3000	3	89,000	**6052643**
DRLU 150 DD	150	0.75	3000	3	138,340	**6052647**
DRLU 200 DD	200	1	3000	3	177,670	**6052650**
DRLU 300 DD	300	1	3000	3	256,000	**6052656**
DRLU 400 DD	400	1	3000	3	334,470	**6052662**
DRLU 500 DD	500	1.25	3000	3	619,340	**6052668**
DRLU 600 DD	600	1.25	3000	3	737,270	**6052674**

St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip





Transverse bead from 500 mm width.

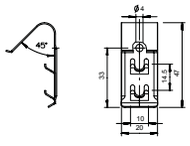
Cover for cable trays and mesh cable trays.

When using covers outdoors, additional measures against the influence of wind must be taken. Cover clamps or turn buckles on their own are not sufficient securing elements against wind loads.

Cover clamp, universal

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DKU VA4310	20	0,800	**6065600**

V2A Stainless steel, grade 301 /100 pc.





Depending on the tray width, 4–6 cover clamps are required for secure fastening of a 3 m cover.

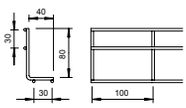
Cover clamp for universal fastening of covers on cable trays, mesh cable trays and AZ channels.

The cover clamp is not suitable for use with mesh cable trays with a side height of 35 mm.

Always indicate the item number when ordering.

Mesh angle





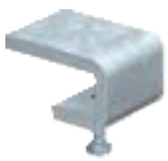
Type	Length mm	Pack. m	Weight kg/100 m	Item No.
GW 40 80 FT	2000	50	63,000	**6003818**

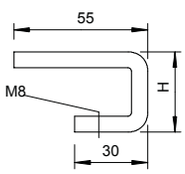
St Steel /m

FT Hot-dip galvanised

Mesh angle for routing cables in steel girders.

Beam clamp





Type	Height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KL 20 FT	20	10	22,000	**6003850**
KL 30 FT	30	10	24,000	**6003869**

St Steel /pc.

FT Hot-dip galvanised

When selecting the beam clamp, please take the flange thickness of the steel girder into account.

Beam clamp for fastening the mesh angle, type GW 40/80 to steel girders.

Bolt cutter



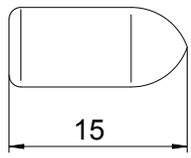
Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GR BS	450	1	160,000	**6017700**

St Steel /pc.

Bolt cutter for cutting mesh cable trays.

End caps





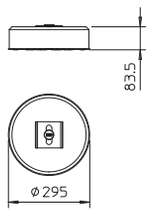
Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GR KS 3.9 OR	Pastel orange	500	0,025	**6003750**
GR KS 4.8 OR	Pastel orange	500	0,030	**6003754**

PE Polyethylene /100 pc.

End cap to cover cut wire ends of mesh cable trays.

Tray fastening system set 10 kg with TrayFix large





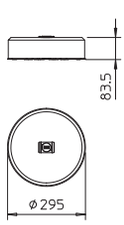
Type	From tray width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TrayFix-10-L	100	1	1.100,000	**5403101**

/pc.

- Mounting system for the fastening of mesh cable trays and cable trays on FangFix stone e.g. cable routing on a flat roof.
- Adapted to OBO cable tray systems MKSM, SKSM and IKSM
- Adapted to OBO mesh cable tray systems with a minimum width of 100 mm
- Set consisting of TrayFix mounting adapter and concrete block including base for FangFix-System 10 kg

Tray fastening system set 10 kg with TrayFix small





Type	From tray width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TrayFix-10-S	100	1	1.000,000	**5403102**

/pc.

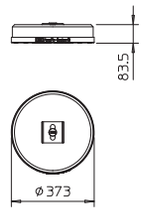
- Mounting system for the fastening of mesh cable trays and cable trays on FangFix stone e.g. cable routing on a flat roof.
- Adapted to OBO mesh cable systems with a minimum width of 100 mm
- Set consisting of clamping piece, fastening plug and concrete block including base for FangFix-System 10 kg

Always indicate the item number when ordering.

Tray fastening system set 16 kg with TrayFix large

Type	From tray width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TrayFix-16-L	100	1	1.700,000	**5403098**

/pc.



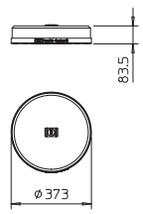


- Mounting system for the fastening of mesh cable trays and cable trays on FangFix stone e.g. cable routing on a flat roof.
- Adapted to OBO cable tray systems MKSM, SKSM and IKSM
- Adapted to OBO mesh cable tray systems with a minimum width of 100 mm
- Set consisting of TrayFix mounting adapter and concrete block including base for FangFix-System 16 kg

Tray fastening system set 16 kg with TrayFix small

Type	From tray width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TrayFix-16-S	100	1	1.700,000	**5403099**

/pc.



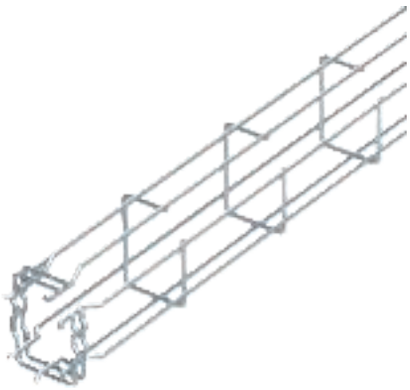


- Mounting system for the fastening of mesh cable trays and cable trays on FangFix stone e.g. cable routing on a flat roof.
- Adapted to OBO mesh cable systems with a minimum width of 100 mm
- Set consisting of clamping piece, fastening plug and concrete block including base for FangFix-System 16 kg

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Always indicate the item number when ordering.

G mesh cable tray Magic, side height 50 mm



Type	Side height mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
G-GRM 50 50 G	50	3.9	3	67,100	**6005535**
G-GRM 50 50 FT	50	3.9	3	68,600	**6005520**

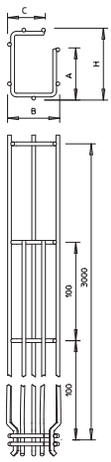
St Steel /m

G Electrogalvanised FT Hot-dip galvanised

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Bracket mounting or direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Dimensions



Type	Length mm	Dimension B mm	Dimension H mm	Dimension C mm	Dimension A mm	Wire Ø mm
G-GRM 50 50 G	3000	55	55	33	40	3.9

Load

G-GRM 50/50

	Support spacing [m]			
	Load [kN/m]			
Fastening variant	**1**	**1.5**	**2**	**2.5**
Wall fastening K12 1818	0.2	0.15	0.1	0.05
Ceiling fastening K12 1818	0.25	0.2	0.10	0.05

Always indicate the item number when ordering.

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G mesh cable tray Magic, side height 75 mm

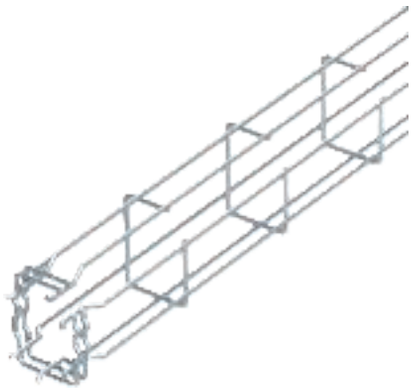
Type	Side height mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
G-GRM 75 50 G	75	3.9	3	79,900	**6005538**
G-GRM 75 50 FT	75	3.9	3	81,700	**6005523**

St Steel /m

G Electrogalvanised FT Hot-dip galvanised

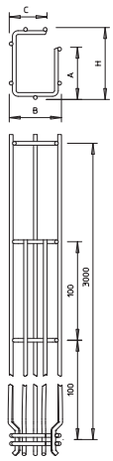
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Bracket mounting or direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.



Dimensions

Type	Length mm	Dimension B mm	Dimension H mm	Dimension C mm	Dimension A mm	Wire Ø mm
G-GRM 75 50 G	3000	53	73	40	53	3.9



Load

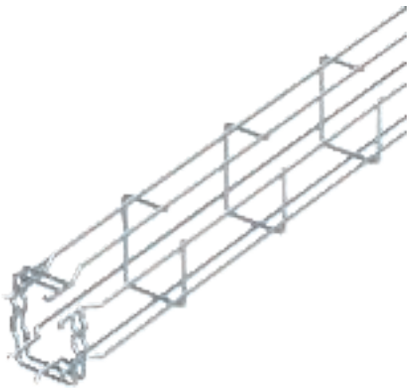
G-GRM 75/50

	Support spacing [m]			
	Load [kN/m]			
Fastening variant	**1**	**1.5**	**2**	**2.5**
Wall fastening K12 1818	0.3	0.2	0.15	0.1
Ceiling fastening K12 1818	0.35	0.2	0.15	0.1

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Always indicate the item number when ordering.

G mesh cable tray Magic, side height 125 mm



Type	Side height mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
G-GRM 125 75 G	125	3.9	3	109,000	**6005541**
G-GRM 125 75 FT	125	3.9	3	111,500	**6005526**

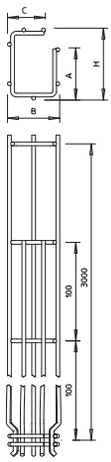
St Steel /m

G Electrogalvanised FT Hot-dip galvanised

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Bracket mounting or direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Dimensions



Type	Length mm	Dimension B mm	Dimension H mm	Dimension C mm	Dimension A mm	Wire Ø mm
G-GRM 125 75 G	3000	75	125	40	96	3.9

Load

G-GRM 125/75

	Support spacing [m]			
	Load [kN/m]			
Fastening variant	**1**	**1.5**	**2**	**2.5**
Bracket MWAG 12-11	0.6	0.35	0.3	0.2
Wall fastening K12 1818	0.25	0.25	0.2	0.15
Ceiling fastening K12 1818	0.3	0.25	0.2	0.15

Always indicate the item number when ordering.

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G mesh cable tray Magic, side height 150 mm

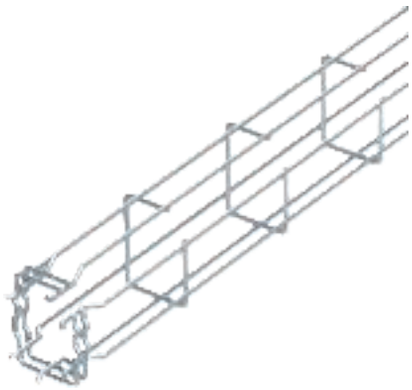
Type	Side height mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
G-GRM 150 100 G	150	3.9	3	128,000	**6005544**
G-GRM 150 100 FT	150	3.9	3	130,900	**6005529**

St Steel /m

G Electrogalvanised FT Hot-dip galvanised

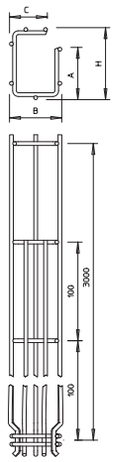
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Bracket mounting or direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.



Dimensions

Type	Length mm	Dimension B mm	Dimension H mm	Dimension C mm	Dimension A mm	Wire Ø mm
G-GRM 150 100 G	3000	100	155	70	120	3.9



Load

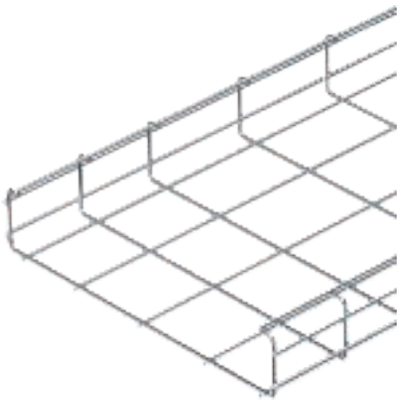
G-GRM 150/100

	Support spacing [m]			
	Load [kN/m]			
Fastening variant	**1**	**1.5**	**2**	**2.5**
Bracket MWAG 12-11	0.6	0.5	0.35	0.3
Wall fastening K12 1818	0.25	0.2	0.15	0.1
Ceiling fastening K12 1818	0.25	0.25	0.15	0.1

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Always indicate the item number when ordering.

C mesh cable tray CGR



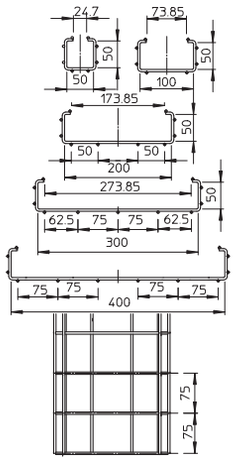
Type	Side height mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
CGR 50 50 FT	50	4.5	3	132,000	**6017428**
CGR 50 100 FT	50	4.5	3	140,000	**6017436**
CGR 50 200 FT	50	4.5	3	180,000	**6017444**
CGR 50 300 FT	50	4.5	3	210,000	**6017452**
CGR 50 400 FT	50	4.5	3	240,000	**6017460**

St Steel /m

FT Hot-dip galvanised

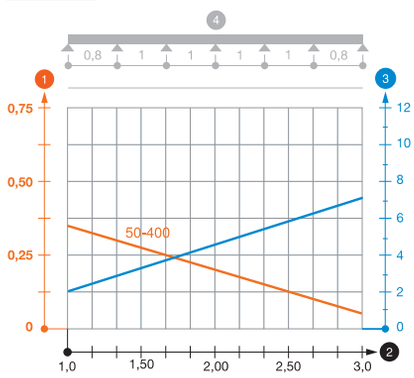
C-shaped mesh cable tray made of spot-welded steel wire of side height 50 mm.
Magnetic shield insulation 15 dB.

Dimensions



Type	Length mm	Width mm	Wire Ø mm	Useful cross-section cm²
CGR 50 50 FT	3000	50	4.5	13
CGR 50 100 FT	3000	100	4.5	34
CGR 50 200 FT	3000	200	4.5	75
CGR 50 300 FT	3000	300	4.5	116
CGR 50 400 FT	3000	400	4.5	157

Load



Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
CGR 50 50 FT	0.32	0.25	0.18
CGR 50 100 FT	0.32	0.25	0.18
CGR 50 200 FT	0.32	0.25	0.18
CGR 50 300 FT	0.32	0.25	0.18
CGR 50 400 FT	0.32	0.25	0.18

Load diagram, C mesh cable tray, type CGR 50

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

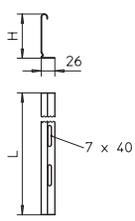
4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Barrier strip





Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 30 FS	30	3000	3	38,000	**6062050**
TSG 30 DD	30	3000	3	38,000	**6062314**

St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.

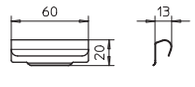
Always indicate the item number when ordering.

04 KTS Masterkatalog Länder / en / 25/10/2016 (LLExport_04366) / 25/10/2016

Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**
V2A Stainless steel, grade 301			/pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.

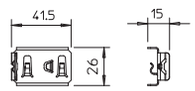




Hold-down clamp for barrier strip fastening

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS GR VA4310	30	0,830	**6062282**
V2A Stainless steel, grade 301			/100 pc.

Hold-down clamp for fastening barrier strips in mesh cable trays.





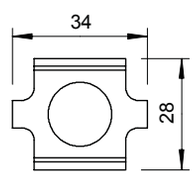
Joint connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GSV 34 FT	20	3,000	**6016634**
St Steel			/pc.
FT Hot-dip galvanised			

Including FRS M6 x 20 bolt with flange nut.

Screwed version of joint connector for mesh cable trays.

Figure: Positioning and quantity of mesh cable tray connectors.
50–150 mm = 2 units
400 mm = 3 units
450–600 mm = 5 units



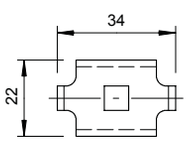


Hold-down clamp

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GKS 34 FT	20	2,000	**6016820**
St Steel			/pc.
FT Hot-dip galvanised			

Including FRS M6 x 20 bolt with flange nut.

Clamp for fixing mesh cable trays to wall or support brackets.



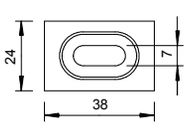


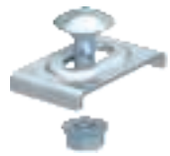
Hold-down clamp

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GKT 38 FT	20	2,400	**6017061**
St Steel			/pc.
FT Hot-dip galvanised			

Including FRS M6 x 20 bolt with flange nut.

Clamp for fastening barrier strip in mesh cable trays.

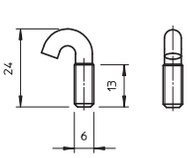




Hook screw

Type	Thread	Pack. pcs	Weight kg/100 pcs.	Item No.
HS M6x13 A2	M6	100	0,500	**1154990**
V2A Stainless steel, A2				/100 pc.

Hook screw for fastening cable tracks on the bracket.

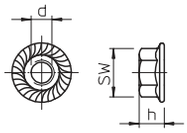




Always indicate the item number when ordering.

Flange nut





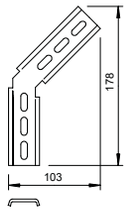
Type	Dim. d mm	Dim. h mm	SW mm	Grade	Pack. pcs	Weight kg/100 pcs.	Item No.
KM M6 A2	6	6	10	A2-70	100	0,315	**6408966**

V2A Stainless steel, A2 /100 pc.

Flange nut with pressed washer in accordance with EN 1661.

45° mounting angle





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
MW 45 SL10 FT	20	21,000	**6017320**

St Steel /pc.

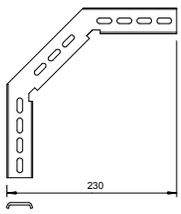
FT Hot-dip galvanised

Each with two clamps of type KS 23/35.

45° installation profile, vertical, for C mesh cable tray and GR-Magic mesh cable tray with a side height of 55 mm.

90° mounting angle





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
MW 90 SL17 FT	20	27,000	**6017347**
MW 90 SL23 FT	20	35,400	**6017355**

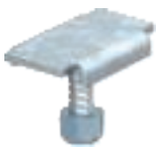
St Steel /pc.

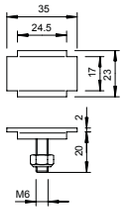
FT Hot-dip galvanised

Each with two clamps of type KS 23/35.

90° installation profile, vertical, for C mesh cable tray and GR-Magic mesh cable tray with a side height of 55 mm.

Hold-down clamp





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS 23 35 FT	100	2,015	**6015174**

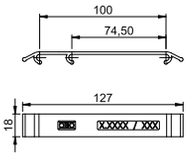
St Steel /pc.

FT Hot-dip galvanised

Including M6 locknut.

Clamp for mounting bracket, type MW 45 and MW 90.

Identification clip











Type	KS GR OR	KS GR ZGB	KS GR LBL	KS GR SGN
Colour	Pastel orange	Zinc yellow	Light blue	Signal green
Weight kg/100 pcs.	0.92	0.92	0.92	0.92
Pack. pcs	10	10	10	10
Item No.	**6017712**	**6017713**	**6017714**	**6017715**

PA Polyamide /pc.

The identification clip is fastened to the mesh cable tray without screws simply by attaching it.

Identification clip for screwless fastening on mesh cable trays.

Always indicate the item number when ordering.

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Cable ladder systems

Always indicate the item number when ordering.

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Cable ladder systems

	Side rail height 45 mm	404
	Side rail height 60 mm	409
	Side rail height 110 mm	417
	Accessories for side rail height 45, 60, 110 mm	425

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Cable ladder LG 45



Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
LG 420 NS 3 FS	200	1.25	3	188,300	**6200508**
LG 430 NS 3 FS	300	1.25	3	202,500	**6200511**
LG 440 NS 3 FS	400	1.25	3	216,700	**6200514**
LG 450 NS 3 FS	500	1.25	3	243,700	**6200517**
LG 460 NS 3 FS	600	1.25	3	260,800	**6200520**
LG 420 NS 6 FS	200	1.25	6	188,500	**6200583**
LG 430 NS 6 FS	300	1.25	6	205,500	**6200586**
LG 440 NS 6 FS	400	1.25	6	216,800	**6200589**
LG 450 NS 6 FS	500	1.25	6	243,800	**6200592**
LG 460 NS 6 FS	600	1.25	6	260,800	**6200595**
LG 420 NS 6 FT	200	1.25	6	203,000	**6200605**
LG 430 NS 6 FT	300	1.25	6	218,000	**6200608**
LG 440 NS 6 FT	400	1.25	6	233,000	**6200611**
LG 450 NS 6 FT	500	1.25	6	261,300	**6200614**
LG 460 NS 6 FT	600	1.25	6	278,000	**6200617**

St Steel /m

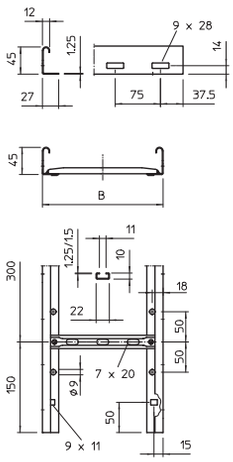
FS Strip-galvanised FT Hot-dip galvanised

The cable ladder is shipped folded up.
You can find the appropriate U clamp of type 2056/N in the vertical ladder systems chapter.

Cable ladder with perforated side rail of side height 45 mm with riveted C profile rungs, open in an upwards direction.

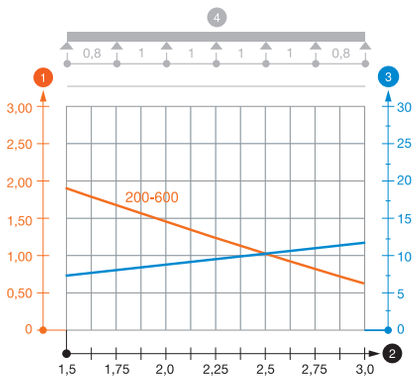
Magnetic shield insulation without cover 10 dB, with cover 15 dB.

Dimensions



Type	Length mm	Width mm	Rail thickness mm	Useful cross-section cm²	Rung spacing mm
LG 420 NS 3 FS	3000	200	1.25	68	300
LG 430 NS 3 FS	3000	300	1.25	103	300
LG 440 NS 3 FS	3000	400	1.25	138	300
LG 450 NS 3 FS	3000	500	1.25	173	300
LG 460 NS 3 FS	3000	600	1.25	208	300

Load



Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
LG 420 NS 3 FS	1.8	1.4	1	0.55
LG 430 NS 3 FS	1.8	1.4	1	0.55
LG 440 NS 3 FS	1.8	1.4	1	0.55
LG 450 NS 3 FS	1.8	1.4	1	0.55
LG 460 NS 3 FS	1.8	1.4	1	0.55

Load diagram, cable ladder, type LG 45 NS

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

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Cable ladder SLG 45

Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SLG 420 NS 3 FS	200	2	3	281,800	**6200540**
SLG 430 NS 3 FS	300	2	3	295,800	**6200543**
SLG 440 NS 3 FS	400	2	3	310,200	**6200546**
SLG 450 NS 3 FS	500	2	3	337,000	**6200549**
SLG 460 NS 3 FS	600	2	3	354,000	**6200552**
SLG 420 NS 6 FS	200	2	6	281,800	**6200623**
SLG 430 NS 6 FS	300	2	6	295,800	**6200626**
SLG 440 NS 6 FS	400	2	6	310,200	**6200629**
SLG 450 NS 6 FS	500	2	6	337,200	**6200632**
SLG 460 NS 6 FS	600	2	6	354,200	**6200635**
SLG 420 NS 6 FT	200	2	6	295,700	**6200646**
SLG 430 NS 6 FT	300	2	6	310,700	**6200649**
SLG 440 NS 6 FT	400	2	6	325,700	**6200652**
SLG 450 NS 6 FT	500	2	6	354,000	**6200655**
SLG 460 NS 6 FT	600	2	6	372,300	**6200658**

St Steel /m

FS Strip-galvanised FT Hot-dip galvanised



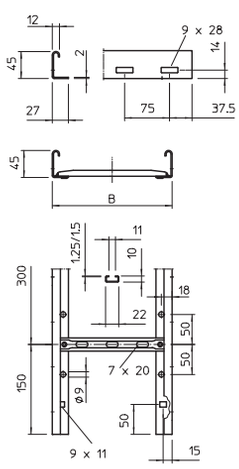
The cable ladder is shipped folded up.
You can find the appropriate U clamp of type 2056N in the vertical ladder systems chapter.

Cable ladder with perforated side rail of side height 45 mm with riveted C profile rungs, open in an upwards direction.

Magnetic shield insulation without cover 10 dB, with cover 15 dB.

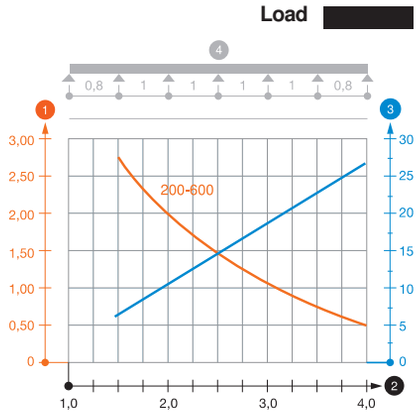
Dimensions

Type	Length mm	Width mm	Rail thickness mm	Useful cross-section cm²	Rung spacing mm
SLG 420 NS 3 FS	3000	200	2	68	300
SLG 430 NS 3 FS	3000	300	2	103	300
SLG 440 NS 3 FS	3000	400	2	138	300
SLG 450 NS 3 FS	3000	500	2	173	300
SLG 460 NS 3 FS	3000	600	2	208	300



Load

Type	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
SLG 420 NS 3 FS	2.75	2	1	0.55
SLG 430 NS 3 FS	2.75	2	1	0.55
SLG 440 NS 3 FS	2.75	2	1	0.55
SLG 450 NS 3 FS	2.75	2	1	0.55
SLG 460 NS 3 FS	2.75	2	1	0.55



Load diagram, cable ladder, type SLG 45 NS

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

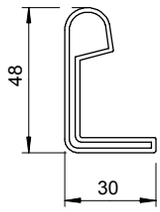
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

Protective cap





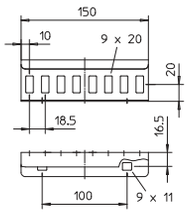
Type	Colour	Pack. pair	Weight kg/100 pairs	Item No.
SKH 45 OR	Pastel orange	40	0,800	**6222502**

PE Polyethylene /pair

Protective cap to cover cable ladder ends of side height 45 mm.

Straight connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LVG 45 FS	45	10	19,000	**6200832**
LVG 45 FT	45	10	20,000	**6200835**

St Steel /pc.

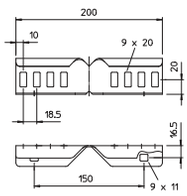
FS Strip-galvanised FT Hot-dip galvanised

The bolt fastening ensures the continuity of the equipotential bonding.

Straight connector as external connector to connect cable ladders and fittings with a side height of 45 mm and continuous side perforation.

Straight and angle connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LWVG 45 FS	45	10	17,600	**6200882**
LWVG 45 VA4301	45	10	17,600	**6200885**

St Steel V2A Stainless steel, grade 304 /pc.

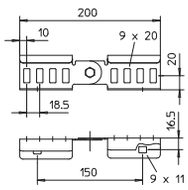
FS Strip-galvanised

The bolt fastening ensures the continuity of the equipotential bonding.

Angle connector as external connector to join cable ladders and fittings with a side height of 45 mm and continuous rail perforation.

Adjustable connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LGVG 45 FS	45	10	22,000	**6200926**
LGVG 45 FT	45	10	24,000	**6200929**

St Steel /pc.

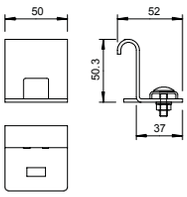
FS Strip-galvanised FT Hot-dip galvanised

The bolt fastening ensures the continuity of the equipotential bonding.

Adjustable connector as external connector to join cable ladders and fittings with a side height of 45 mm and continuous rail perforation. Angle can be adjusted vertically.

Connector





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LAS 45 FS	10	13,000	**6221300**
LAS 45 FT	10	13,000	**6221319**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

To increase the cable supporting surface, use a conjunction of corner plates of type LEB.

Connector for creation of branches at the same height at a later date.

Always indicate the item number when ordering.

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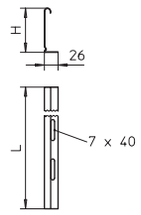
Barrier strip

Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 30 FS	30	3000	3	38,000	**6062050**
TSG 30 DD	30	3000	3	38,000	**6062314**

St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.



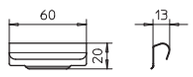


Barrier strip connector VA

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**

V2A Stainless steel, grade 301 /pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.



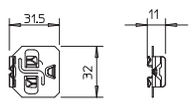


Hold-down clamp for barrier strip fastening VA

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KL VA4310	30	0,512	**6062284**

V2A Stainless steel, grade 301 /100 pc.

Hold-down clamp for screwless fastening of barrier strips in cable ladders.





90° bend

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LBI 90 420 NS FS	200	1	238,000	**6203027**
LBI 90 430 NS FS	300	1	286,000	**6203035**
LBI 90 440 NS FS	400	1	316,000	**6203043**
LBI 90 450 NS FS	500	1	376,000	**6203051**
LBI 90 460 NS FS	600	1	446,000	**6203078**
LBI 90 420 NS FT	200	1	251,000	**6203124**
LBI 90 430 NS FT	300	1	302,000	**6203132**
LBI 90 440 NS FT	400	1	333,000	**6203140**
LBI 90 450 NS FT	500	1	396,000	**6203159**
LBI 90 460 NS FT	600	1	470,000	**6203167**

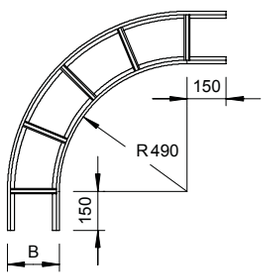
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.

90° bend, horizontal, for all cable ladder types of 45 mm side height.

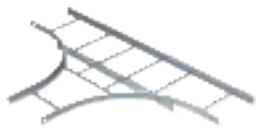


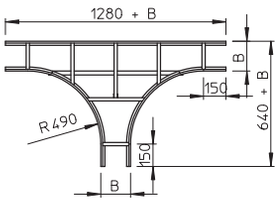


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Always indicate the item number when ordering.

Tee





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LT 420 NS FS	200	1	437,000	**6205534**
LT 430 NS FS	300	1	513,000	**6205542**
LT 440 NS FS	400	1	570,000	**6205550**
LT 450 NS FS	500	1	637,000	**6205569**
LT 460 NS FS	600	1	731,000	**6205577**
LT 420 NS FT	200	1	460,000	**6205623**
LT 430 NS FT	300	1	540,000	**6205631**
LT 440 NS FT	400	1	600,000	**6205658**
LT 450 NS FT	500	1	671,000	**6205666**
LT 460 NS FT	600	1	770,000	**6205674**

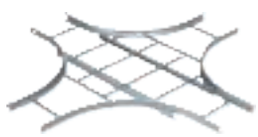
St Steel /pc.

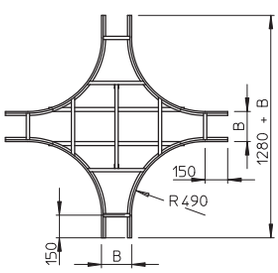
FS Strip-galvanised FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.

Horizontal tee, for all cable ladder types of 45 mm side height.

Cross-over





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LK 420 NS FT	200	1	640,000	**6206123**
LK 430 NS FT	300	1	750,000	**6206131**
LK 440 NS FT	400	1	820,000	**6206158**
LK 450 NS FT	500	1	900,000	**6206166**
LK 460 NS FT	600	1	1.020,000	**6206174**

St Steel /pc.

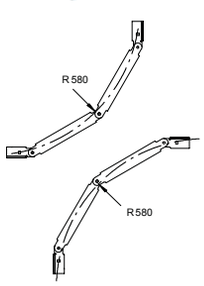
FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.

Horizontal cross-over for all cable ladder types of 45 mm side height.

90° adjustable vertical bend





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LGBV 420 NS FS	200	1	175,000	**6205038**
LGBV 430 NS FS	300	1	193,000	**6205046**
LGBV 440 NS FS	400	1	209,000	**6205054**
LGBV 450 NS FS	500	1	242,000	**6205062**
LGBV 460 NS FS	600	1	262,000	**6205070**
LGBV 420 NS FT	200	1	187,000	**6205127**
LGBV 430 NS FT	300	1	205,000	**6205135**
LGBV 440 NS FT	400	1	223,000	**6205143**
LGBV 450 NS FT	500	1	257,000	**6205151**
LGBV 460 NS FT	600	1	278,000	**6205178**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

The fitting is shipped in an unmounted state including adjustable connectors and the appropriate bolts.

90° adjustable vertical bend, for all cable ladder types with a side height of 45 mm.

Always indicate the item number when ordering.

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Cable ladder LG 60 NS

Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
LG 620 NS 3 FS	200	1.5	3	253,670	**6208506**
LG 630 NS 3 FS	300	1.5	3	268,000	**6208509**
LG 640 NS 3 FS	400	1.5	3	282,200	**6208512**
LG 650 NS 3 FS	500	1.5	3	308,670	**6208515**
LG 660 NS 3 FS	600	1.5	3	325,340	**6208518**
LG 620 NS 6 FS	200	1.5	6	253,840	**6208581**
LG 630 NS 6 FS	300	1.5	6	268,000	**6208584**
LG 640 NS 6 FS	400	1.5	6	282,170	**6208587**
LG 650 NS 6 FS	500	1.5	6	308,840	**6208590**
LG 660 NS 6 FS	600	1.5	6	325,500	**6208593**
LG 620 NS 6 FT	200	1.5	6	270,000	**6208603**
LG 630 NS 6 FT	300	1.5	6	285,000	**6208606**
LG 640 NS 6 FT	400	1.5	6	300,000	**6208609**
LG 650 NS 6 FT	500	1.5	6	328,340	**6208612**
LG 660 NS 6 FT	600	1.5	6	345,840	**6208615**

St Steel /m

FS Strip-galvanised FT Hot-dip galvanised



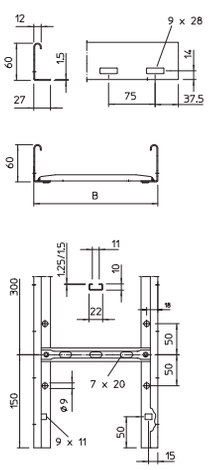
The cable ladder is shipped folded up.
You can find the appropriate U clamp of type 2056N in the vertical ladder systems chapter.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile rungs, open in an upwards direction (NS version).

Magnetic shield insulation without cover 10 dB, with cover 15 dB.

Dimensions

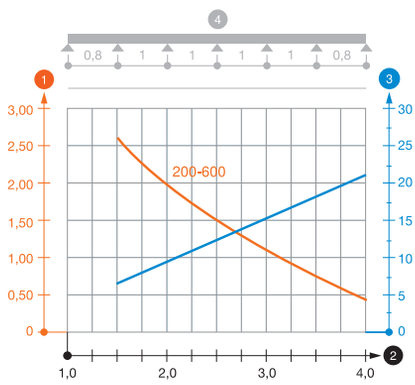
Type	Length mm	Width mm	Rail thickness mm	Useful cross-section cm²	Rung spacing mm
LG 620 NS 3 FS	3000	200	1.5	98	300
LG 630 NS 3 FS	3000	300	1.5	148	300
LG 640 NS 3 FS	3000	400	1.5	198	300
LG 650 NS 3 FS	3000	500	1.5	248	300
LG 660 NS 3 FS	3000	600	1.5	298	300



Load

Type	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LG 620 NS 3 FS	2	1.5	1	0.4
LG 630 NS 3 FS	2	1.5	1	0.4
LG 640 NS 3 FS	2	1.5	1	0.4
LG 650 NS 3 FS	2	1.5	1	0.4
LG 660 NS 3 FS	2	1.5	1	0.4

Load diagram, LG 60 NS



1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

Cable ladder LG 60 VS



Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
LG 620 VS 3 FS	200	1.5	3	281,700	**6208538**
LG 630 VS 3 FS	300	1.5	3	306,000	**6208541**
LG 640 VS 3 FS	400	1.5	3	330,000	**6208544**
LG 650 VS 3 FS	500	1.5	3	354,300	**6208547**
LG 660 VS 3 FS	600	1.5	3	378,300	**6208550**
LG 620 VS 3 FT	200	1.5	3	298,300	**6208562**
LG 630 VS 3 FT	300	1.5	3	324,300	**6208566**
LG 640 VS 3 FT	400	1.5	3	350,000	**6208570**
LG 650 VS 3 FT	500	1.5	3	376,000	**6208574**
LG 660 VS 3 FT	600	1.5	3	401,700	**6208578**
LG 620 VS 6 FS	200	1.5	6	273,800	**6208627**
LG 630 VS 6 FS	300	1.5	6	298,000	**6208630**
LG 640 VS 6 FS	400	1.5	6	322,200	**6208633**
LG 650 VS 6 FS	500	1.5	6	346,300	**6208636**
LG 660 VS 6 FS	600	1.5	6	370,500	**6208639**
LG 620 VS 6 FT	200	1.5	6	290,000	**6208650**
LG 630 VS 6 FT	300	1.5	6	315,800	**6208653**
LG 640 VS 6 FT	400	1.5	6	334,200	**6208656**
LG 650 VS 6 FT	500	1.5	6	367,500	**6208659**
LG 660 VS 6 FT	600	1.5	6	393,300	**6208661**

St Steel /m

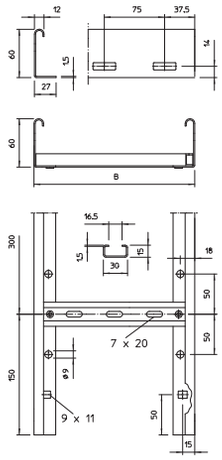
FS Strip-galvanised FT Hot-dip galvanised

The cable ladder is shipped folded up.
You can find the appropriate clamp clip of type 2056 in the Ladder systems section.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

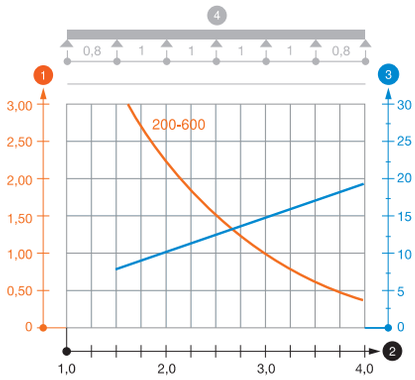
Magnetic shield insulation without cover 10 dB, with cover 15 dB.

Dimensions



Type	Length mm	Width mm	Rail thickness mm	Useful cross-section cm²	Rung spacing mm
LG 620 VS 3 FS	3000	200	1.5	98	300
LG 630 VS 3 FS	3000	300	1.5	148	300
LG 640 VS 3 FS	3000	400	1.5	198	300
LG 650 VS 3 FS	3000	500	1.5	248	300
LG 660 VS 3 FS	3000	600	1.5	298	300

Load



Type	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LG 620 VS 3 FS	2.25	1.5	1.1	0.45
LG 630 VS 3 FS	2.25	1.5	1.1	0.45
LG 640 VS 3 FS	2.25	1.5	1.1	0.45
LG 650 VS 3 FS	2.25	1.5	1.1	0.45
LG 660 VS 3 FS	2.25	1.5	1.1	0.45

Load diagram, LG 60 VS

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

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Cable ladder LCIS

Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
LCIS 620 3 FS	200	1.5	3	267,170	**6209610**
LCIS 630 3 FS	300	1.5	3	288,840	**6209612**
LCIS 640 3 FS	400	1.5	3	310,670	**6209614**
LCIS 650 3 FS	500	1.5	3	332,340	**6209616**
LCIS 660 3 FS	600	1.5	3	354,000	**6209618**
LCIS 620 3 FT	200	1.5	3	283,000	**6209721**
LCIS 630 3 FT	300	1.5	3	306,000	**6209723**
LCIS 640 3 FT	400	1.5	3	329,340	**6209725**
LCIS 650 3 FT	500	1.5	3	352,340	**6209727**
LCIS 660 3 FT	600	1.5	3	375,340	**6209729**
LCIS 620 6 FS	200	1.5	6	267,170	**6209630**
LCIS 630 6 FS	300	1.5	6	288,840	**6209632**
LCIS 640 6 FS	400	1.5	6	310,670	**6209634**
LCIS 650 6 FS	500	1.5	6	332,340	**6209636**
LCIS 660 6 FS	600	1.5	6	354,000	**6209638**
LCIS 620 6 FT	200	1.5	6	283,170	**6209643**
LCIS 630 6 FT	300	1.5	6	306,170	**6209645**
LCIS 640 6 FT	400	1.5	6	329,170	**6209647**
LCIS 650 6 FT	500	1.5	6	352,340	**6209649**
LCIS 660 6 FT	600	1.5	6	375,340	**6209651**

St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

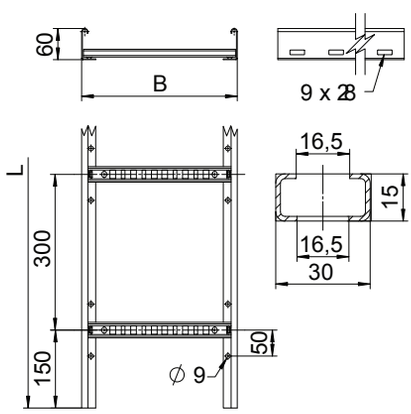


Cable ladder with 60 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamps, type LKS 40. The slot dimension of the frame is 16.5 mm and the appropriate clamp clip is type 2056.

Magnetic shield insulation without cover 10 dB, with cover 15 dB.

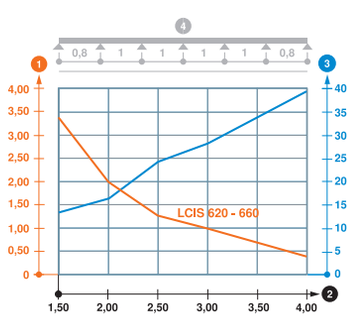
Dimensions

Type	Length mm	Width mm	Rail thickness mm	Useful cross-section cm²	Rung spacing mm
LCIS 620 3 FS	3000	200	1.5	80	300
LCIS 630 3 FS	3000	300	1.5	120	300
LCIS 640 3 FS	3000	400	1.5	160	300
LCIS 650 3 FS	3000	500	1.5	200	300
LCIS 660 3 FS	3000	600	1.5	240	300



Load

Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LCIS 620 3 FS	3.3	2	1.3	1	0.4
LCIS 630 3 FS	3.3	2	1.3	1	0.4
LCIS 640 3 FS	3.3	2	1.3	1	0.4
LCIS 650 3 FS	3.3	2	1.3	1	0.4
LCIS 660 3 FS	3.3	2	1.3	1	0.4



Load diagram LCIS 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

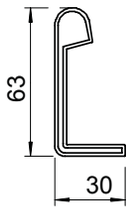
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

End cap





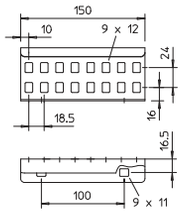
Type	Colour	Pack. pair	Weight kg/100 pairs	Item No.
SKH 60 OR	Pastel orange	40	1,100	**6222537**

PE Polyethylene /pair

End cap to cover cable ladder ends of side height 60 mm.

Straight connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LVG 60 FS	60	10	22,000	**6208840**
LVG 60 FT	60	10	23,000	**6208843**

St Steel /pc.

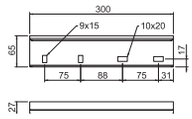
FS Strip-galvanised FT Hot-dip galvanised

The bolt fastening ensures the continuity of the equipotential bonding.

Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

Expansion joint connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LDVG 60 FT	60	2	61,700	**6208970**

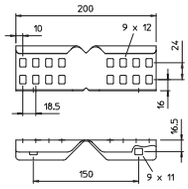
St Steel /pc.

FT Hot-dip galvanised

Straight connector for compensation of linear thermal expansion.

Straight and angle connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LWVG 60 FS	60	10	24,000	**6208895**
LWVG 60 VA4301	60	10	24,000	**6208898**

St Steel V2A Stainless steel, grade 304 /pc.

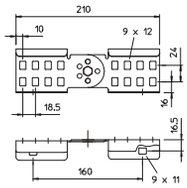
FS Strip-galvanised

The bolt fastening ensures the continuity of the equipotential bonding.

Angle connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

Adjustable connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LGVG 60 FS	60	10	27,000	**6208941**
LGVG 60 FT	60	10	29,000	**6208944**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

The bolt fastening ensures the continuity of the equipotential bonding.

Adjustable connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation. Angle can be adjusted vertically.

Always indicate the item number when ordering.

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Multifunctional connector

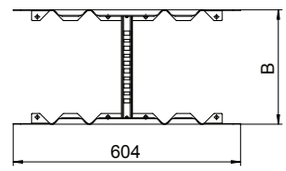
Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LMFV 620 FS	200	1	123,200	**6225710**
LMFV 630 FS	300	1	129,700	**6225712**
LMFV 640 FS	400	1	136,200	**6225714**
LMFV 650 FS	500	1	142,800	**6225716**
LMFV 660 FS	600	1	149,300	**6225718**
LMFV 620 FT	200	1	130,600	**6225730**
LMFV 630 FT	300	1	137,500	**6225732**
LMFV 640 FT	400	1	144,400	**6225734**
LMFV 650 FT	500	1	151,300	**6225736**
LMFV 660 FT	600	1	158,200	**6225738**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Multifunctional connector for joining cable ladders with a side height of 60 mm. Symmetric and asymmetric reductions, bends and add-on tees can be created.





Connector

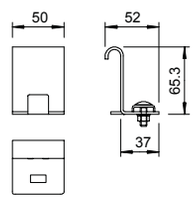
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LAS 60 FS	10	13,000	**6221351**
LAS 60 FT	10	13,600	**6221378**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

To increase the cable supporting surface, use a conjunction of corner plates of type LEB.

Connector for creation of branches at the same height at a later date.





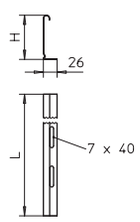
Barrier strip

Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 45 FS	45	3000	3	46,700	**6062033**
TSG 45 DD	45	3000	3	46,700	**6062321**

St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.



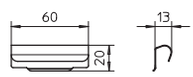


Barrier strip connector VA

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**

V2A Stainless steel, grade 301 /pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.



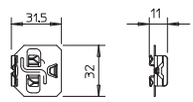


Hold-down clamp for barrier strip fastening

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KL VA4310	30	0,512	**6062284**

V2A Stainless steel, grade 301 /100 pc.

Hold-down clamp for screwless fastening of barrier strips in cable ladders.

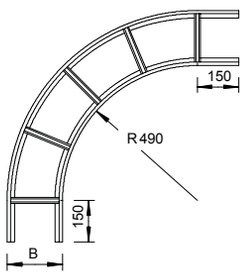




Always indicate the item number when ordering.

90° bend, NS rung





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LBI 90 620 NS FS	200	1	297,000	**6211038**
LBI 90 630 NS FS	300	1	351,000	**6211046**
LBI 90 640 NS FS	400	1	404,000	**6211054**
LBI 90 650 NS FS	500	1	470,000	**6211062**
LBI 90 660 NS FS	600	1	544,000	**6211070**
LBI 90 620 NS FT	200	1	313,000	**6211127**
LBI 90 630 NS FT	300	1	370,000	**6211135**
LBI 90 640 NS FT	400	1	426,000	**6211143**
LBI 90 650 NS FT	500	1	495,000	**6211151**
LBI 90 660 NS FT	600	1	573,000	**6211178**

St Steel /pc.

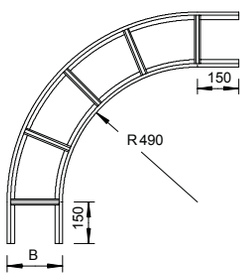
FS Strip-galvanised FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.

90° bend, horizontal, for cable ladders with light-duty rungs (NS) and a side height of 60 mm.

90° bend, VS rung





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LBI 90 620 VS FS	200	1	358,000	**6211224**
LBI 90 630 VS FS	300	1	412,000	**6211232**
LBI 90 640 VS FS	400	1	497,000	**6211240**
LBI 90 650 VS FS	500	1	558,000	**6211259**
LBI 90 660 VS FS	600	1	664,000	**6211267**
LBI 90 620 VS FT	200	1	380,000	**6211321**
LBI 90 630 VS FT	300	1	437,000	**6211348**
LBI 90 640 VS FT	400	1	526,000	**6211356**
LBI 90 650 VS FT	500	1	592,000	**6211364**
LBI 90 660 VS FT	600	1	704,000	**6211372**

St Steel /pc.

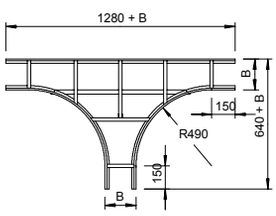
FS Strip-galvanised FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.

90° bend, horizontal, for cable ladders with medium-duty rungs (VS) and a side height of 60 mm.

Tee, NS rung





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LT 620 NS FS	200	1	583,000	**6213529**
LT 630 NS FS	300	1	662,000	**6213537**
LT 640 NS FS	400	1	731,000	**6213545**
LT 650 NS FS	500	1	836,000	**6213553**
LT 660 NS FS	600	1	895,000	**6213561**
LT 620 NS FT	200	1	614,000	**6213634**
LT 630 NS FT	300	1	697,000	**6213642**
LT 640 NS FT	400	1	770,000	**6213650**
LT 650 NS FT	500	1	880,000	**6213669**
LT 660 NS FT	600	1	943,000	**6213677**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.

Horizontal tee, for cable ladders with light-duty rungs (NS) and a side height of 60 mm.

Always indicate the item number when ordering.

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Tee, VS rung

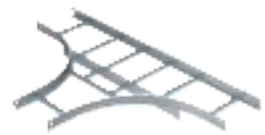
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LT 620 VS FS	200	1	677,000	**6213723**
LT 630 VS FS	300	1	789,000	**6213731**
LT 640 VS FS	400	1	871,000	**6213758**
LT 650 VS FS	500	1	952,000	**6213766**
LT 660 VS FS	600	1	1.094,000	**6213774**
LT 620 VS FT	200	1	718,000	**6213820**
LT 630 VS FT	300	1	837,000	**6213839**
LT 640 VS FT	400	1	924,000	**6213847**
LT 650 VS FT	500	1	1.009,000	**6213855**
LT 660 VS FT	600	1	1.160,000	**6213863**

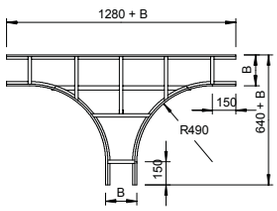
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.

Tee, horizontal, for cable ladders with medium-duty rungs (VS) and a side height of 60 mm.





Cross-over, NS rung

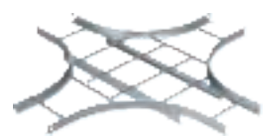
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LK 620 NS FS	200	1	798,000	**6214029**
LK 630 NS FS	300	1	950,000	**6214037**
LK 640 NS FS	400	1	978,000	**6214045**
LK 650 NS FS	500	1	1.064,000	**6214053**
LK 660 NS FS	600	1	1.187,000	**6214061**
LK 620 NS FT	200	1	840,000	**6214134**
LK 630 NS FT	300	1	1.000,000	**6214142**
LK 640 NS FT	400	1	1.030,000	**6214150**
LK 650 NS FT	500	1	1.185,000	**6214169**
LK 660 NS FT	600	1	1.250,000	**6214177**

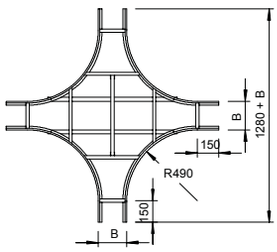
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.

Horizontal cross-over for cable ladders with light-duty rungs (NS) and a side height of 60 mm.





Cross-over, VS rung

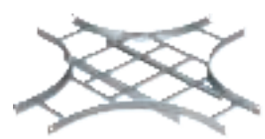
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LK 620 VS FS	200	1	935,000	**6214223**
LK 630 VS FS	300	1	1.080,000	**6214231**
LK 640 VS FS	400	1	1.175,000	**6214258**
LK 650 VS FS	500	1	1.271,000	**6214266**
LK 660 VS FS	600	1	1.445,000	**6214274**
LK 620 VS FT	200	1	993,000	**6214320**
LK 630 VS FT	300	1	1.145,000	**6214339**
LK 640 VS FT	400	1	1.247,000	**6214347**
LK 650 VS FT	500	1	1.348,000	**6214355**
LK 660 VS FT	600	1	1.533,000	**6214363**

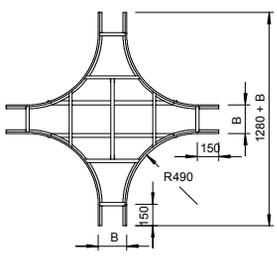
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.

Horizontal cross-over for cable ladders with medium-duty rungs (VS) and a side height of 60 mm.



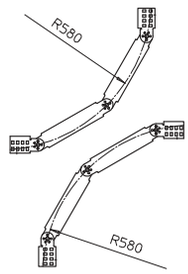


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Always indicate the item number when ordering.

Adjustable bend, vertical, NS rung





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LGBV 620 NS FS	200	1	217,000	**6213022**
LGBV 630 NS FS	300	1	238,000	**6213030**
LGBV 640 NS FS	400	1	254,000	**6213049**
LGBV 650 NS FS	500	1	285,000	**6213057**
LGBV 660 NS FS	600	1	304,000	**6213065**
LGBV 620 NS FT	200	1	229,000	**6213138**
LGBV 630 NS FT	300	1	251,000	**6213146**
LGBV 640 NS FT	400	1	268,000	**6213154**
LGBV 650 NS FT	500	1	315,000	**6213162**
LGBV 660 NS FT	600	1	321,000	**6213170**

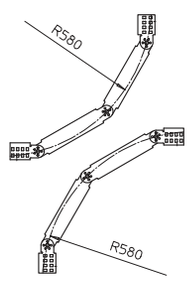
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

The fitting is shipped in an unmounted state including adjustable connectors and the appropriate bolts.
90° adjustable vertical bend, for cable ladders with light-duty rung (NS) and a side height of 60 mm.

Adjustable bend, vertical, VS rung





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LGBV 620 VS FS	200	1	257,000	**6213227**
LGBV 630 VS FS	300	1	286,000	**6213235**
LGBV 640 VS FS	400	1	315,000	**6213243**
LGBV 650 VS FS	500	1	344,000	**6213251**
LGBV 660 VS FS	600	1	374,000	**6213278**
LGBV 620 VS FT	200	1	270,000	**6213324**
LGBV 630 VS FT	300	1	301,000	**6213332**
LGBV 640 VS FT	400	1	332,000	**6213340**
LGBV 650 VS FT	500	1	363,000	**6213359**
LGBV 660 VS FT	600	1	394,000	**6213367**

St Steel /pc.

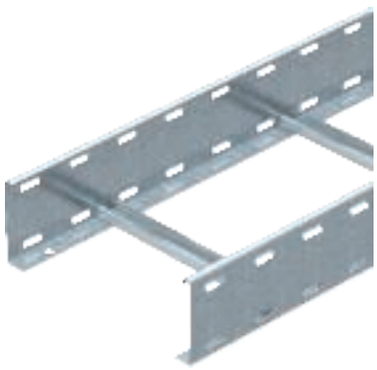
FS Strip-galvanised FT Hot-dip galvanised

The fitting is shipped in an unmounted state including adjustable connectors and the appropriate bolts.
90° adjustable vertical bend, for cable ladders with medium-duty rung (VS) and a side height of 60 mm.

Always indicate the item number when ordering.

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Cable ladder LG 110



Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
LG 112 VS 3 FS	200	1.5	3	382,000	**6216404**
LG 113 VS 3 FS	300	1.5	3	406,000	**6216407**
LG 114 VS 3 FS	400	1.5	3	430,300	**6216410**
LG 115 VS 3 FS	500	1.5	3	454,300	**6216413**
LG 116 VS 3 FS	600	1.5	3	478,700	**6216416**
LG 112 VS 3 FT	200	1.5	3	405,000	**6216423**
LG 113 VS 3 FT	300	1.5	3	430,700	**6216426**
LG 114 VS 3 FT	400	1.5	3	456,700	**6216429**
LG 115 VS 3 FT	500	1.5	3	482,300	**6216432**
LG 116 VS 3 FT	600	1.5	3	508,300	**6216435**
LG 112 VS 6 FS	200	1.5	6	382,000	**6216442**
LG 113 VS 6 FS	300	1.5	6	406,200	**6216445**
LG 114 VS 6 FS	400	1.5	6	430,300	**6216448**
LG 115 VS 6 FS	500	1.5	6	454,500	**6216451**
LG 116 VS 6 FS	600	1.5	6	478,700	**6216454**
LG 112 VS 6 FT	200	1.5	6	405,000	**6216465**
LG 113 VS 6 FT	300	1.5	6	430,800	**6216468**
LG 114 VS 6 FT	400	1.5	6	456,700	**6216471**
LG 115 VS 6 FT	500	1.5	6	482,500	**6216474**
LG 116 VS 6 FT	600	1.5	6	508,300	**6216477**

St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

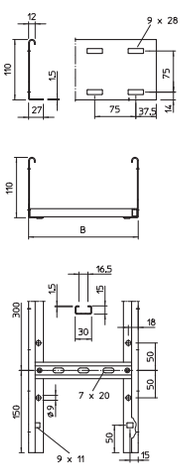
The cable ladder is shipped folded up.
You can find the appropriate clamp clip of type 2056 in the Ladder systems section.

Cable ladder with perforated side rail of side height 110 mm with riveted C profile rungs, open in an upwards direction.

Magnetic shield insulation without cover 10 dB, with cover 15 dB.

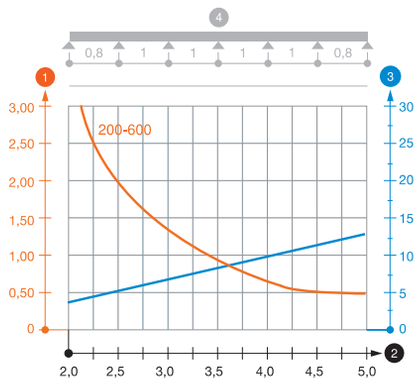
Dimensions

Type	Length mm	Width mm	Rail thickness mm	Useful cross-section cm²	Rung spacing mm
LG 112 VS 3 FS	3000	200	1.5	188	300
LG 113 VS 3 FS	3000	300	1.5	283	300
LG 114 VS 3 FS	3000	400	1.5	378	300
LG 115 VS 3 FS	3000	500	1.5	475	300
LG 116 VS 3 FS	3000	600	1.5	568	300



Load

Type	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m
LG 112 VS 3 FS	3.1	1.4	0.65	0.5
LG 113 VS 3 FS	3.1	1.4	0.65	0.5
LG 114 VS 3 FS	3.1	1.4	0.65	0.5
LG 115 VS 3 FS	3.1	1.4	0.65	0.5
LG 116 VS 3 FS	3.1	1.4	0.65	0.5



Load diagram, cable ladder, type LG 110 VS

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

Cable ladder LCIS



Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
LCIS 1120 6 FT	200	1.5	6	399,500	**6209820**
LCIS 1130 6 FT	300	1.5	6	422,500	**6209822**
LCIS 1140 6 FT	400	1.5	6	445,670	**6209824**
LCIS 1150 6 FT	500	1.5	6	468,670	**6209826**
LCIS 1160 6 FT	600	1.5	6	491,670	**6209828**

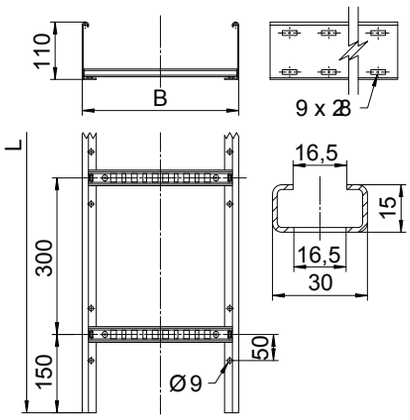
St Steel /m

FT Hot-dip galvanised

Cable ladder with 110 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamps, type LKS 40. The slot dimension of the frame is 16.5 mm and the appropriate clamp clip is type 2056.

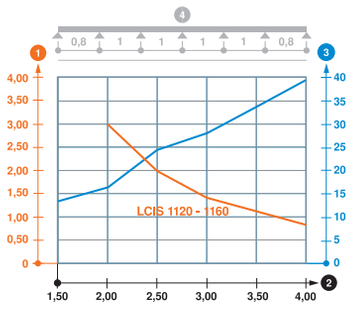
Magnetic shield insulation without cover 10 dB, with cover 15 dB.

Dimensions



Type	Length mm	Width mm	Rail thickness mm	Useful cross-section cm²	Rung spacing mm
LCIS 1120 6 FT	6000	200	1.5	180	300
LCIS 1130 6 FT	6000	300	1.5	270	300
LCIS 1140 6 FT	6000	400	1.5	360	300
LCIS 1150 6 FT	6000	500	1.5	450	300
LCIS 1160 6 FT	6000	600	1.5	540	300

Load



Type	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LCIS 1120 6 FT	3	2	1.4	0.8
LCIS 1130 6 FT	3	2	1.4	0.8
LCIS 1140 6 FT	3	2	1.4	0.8
LCIS 1150 6 FT	3	2	1.4	0.8
LCIS 1160 6 FT	3	2	1.4	0.8

Load diagram, cable ladder, type LCIS 110

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

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Cable ladder SLCS

Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SLCS 1120 3 FT	200	2	3	529,670	**6207302**
SLCS 1130 3 FT	300	2	3	563,670	**6207304**
SLCS 1140 3 FT	400	2	3	597,170	**6207306**
SLCS 1150 3 FT	500	2	3	630,670	**6207310**
SLCS 1160 3 FT	600	2	3	664,670	**6207312**

St Steel /m

FT Hot-dip galvanised

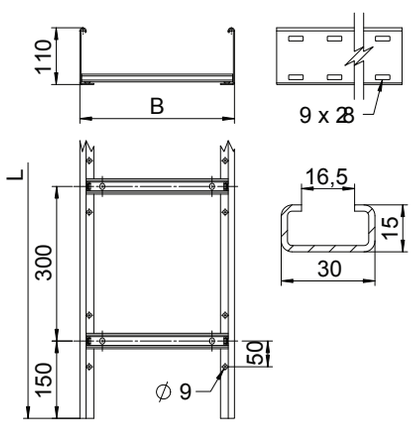
Cable ladder with 110 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamps, type LKS 40. The slot dimension of the frame is 16.5 mm and the appropriate clamp clip is type 2056.

Magnetic shield insulation without cover 10 dB, with cover 15 dB.



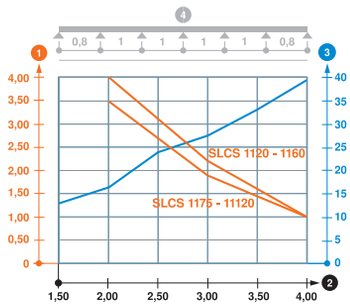
Dimensions

Type	Length mm	Width mm	Rail thickness mm	Useful cross-section cm²	Rung spacing mm
SLCS 1120 3 FT	3000	200	2	180	300
SLCS 1130 3 FT	3000	300	2	270	300
SLCS 1140 3 FT	3000	400	2	360	300
SLCS 1150 3 FT	3000	500	2	450	300
SLCS 1160 3 FT	3000	600	2	540	300



Load

Type	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
SLCS 1120 3 FT	4	2.3	1
SLCS 1130 3 FT	4	2.3	1
SLCS 1140 3 FT	4	2.3	1
SLCS 1150 3 FT	4	2.3	1
SLCS 1160 3 FT	4	2.3	1



Load diagram, cable ladder, type SLCS 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

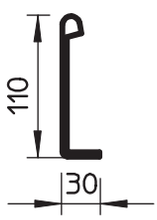
— Strut bend curve according to support width

End cap

Type	Colour	Pack. pair	Weight kg/100 pairs	Item No.
SKH 110 OR	Pastel orange	20	1,400	**6222553**

PE Polyethylene /pair

End cap to cover cable ladder ends of side height 110 mm

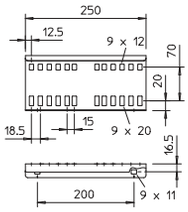




Always indicate the item number when ordering.

Straight connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LVG 110 FS	110	10	51,000	**6216545**
LVG 110 FT	110	10	44,900	**6216548**

St Steel /pc.

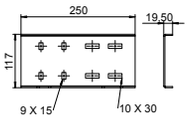
FS Strip-galvanised FT Hot-dip galvanised

The bolt fastening ensures the continuity of the equipotential bonding.

Straight connector as external connector to connect cable ladders and fittings with a side height of 110 mm and continuous rail perforation.

Connector for expansion





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SLDV 110 FT	110	2	102,000	**6091100**

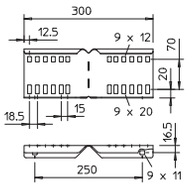
St Steel /pc.

FT Hot-dip galvanised

Connector for expansion for compensation of linear thermal expansion.

Straight and angle connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LWVG 110 FS	110	10	48,800	**6216587**
LWVG 110 VA4301	110	10	48,800	**6216590**

St Steel V2A Stainless steel, grade 304 /pc.

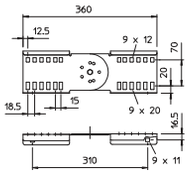
FS Strip-galvanised

The bolt fastening ensures the continuity of the equipotential bonding.

Angle connector as external connector to join cable ladders and fittings with a side height of 110 mm and continuous rail perforation.

Adjustable connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LGVG 110 FS	110	10	61,000	**6216650**
LGVG 110 FT	110	10	65,000	**6216653**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

The bolt fastening ensures the continuity of the equipotential bonding.

Adjustable connector as internal connector to join cable ladders and fittings with a side height of 110 mm. Angle can be adjusted vertically.

Always indicate the item number when ordering.

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Multifunctional connector

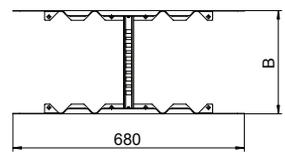
Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LMFV 1120 FS	200	1	208,100	**6225750**
LMFV 1130 FS	300	1	214,600	**6225752**
LMFV 1140 FS	400	1	221,100	**6225754**
LMFV 1150 FS	500	1	227,600	**6225756**
LMFV 1160 FS	600	1	234,000	**6225758**
LMFV 1120 FT	200	1	221,300	**6225770**
LMFV 1130 FT	300	1	228,200	**6225772**
LMFV 1140 FT	400	1	235,100	**6225774**
LMFV 1145 FT	450	1	238,500	**6225776**
LMFV 1150 FT	500	1	241,900	**6225778**
LMFV 1160 FT	600	1	248,800	**6225780**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Multifunctional connector for joining cable ladders with a side height of 110 mm. Symmetric and asymmetric reductions, bends and add-on tees can be created.





Connector

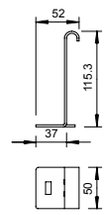
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LAS 110 FS	10	18,000	**6221416**
LAS 110 FT	10	19,000	**6221424**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

To increase the cable supporting surface, use a conjunction of corner plates of type LEB.

Connector for creation of branches at the same height at a later date.





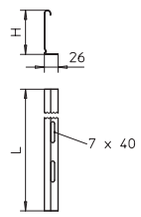
Barrier strip

Type	Dimension H mm	Plate thickness mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 85 FS	85	0.75	3000	3	70,300	**6062114**
TSG 85 DD	85	0.75	3000	3	70,300	**6062331**

St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.



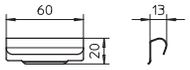


Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**

V2A Stainless steel, grade 301 /pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.



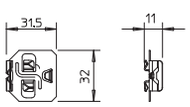


Hold-down clamp for barrier strip fastening

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KL VA4310	30	0,512	**6062284**

V2A Stainless steel, grade 301 /100 pc.

Hold-down clamp for screwless fastening of barrier strips in cable ladders.

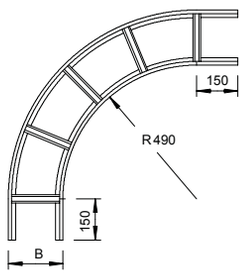




Always indicate the item number when ordering.

90° bend





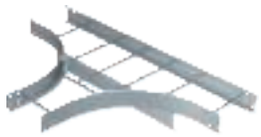
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LBI 90 112 VS FS	200	1	498,000	**6217621**
LBI 90 113 VS FS	300	1	561,000	**6217648**
LBI 90 114 VS FS	400	1	655,000	**6217656**
LBI 90 115 VS FS	500	1	726,000	**6217664**
LBI 90 116 VS FS	600	1	836,000	**6217672**
LBI 90 112 VS FT	200	1	528,000	**6217729**
LBI 90 113 VS FT	300	1	595,000	**6217737**
LBI 90 114 VS FT	400	1	694,000	**6217745**
LBI 90 115 VS FT	500	1	762,000	**6217753**
LBI 90 116 VS FT	600	1	886,000	**6217761**

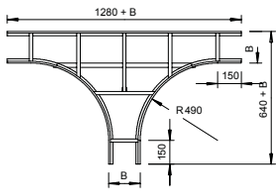
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.
90° bend, horizontal, for all cable ladder types of 110 mm side height.

Tee





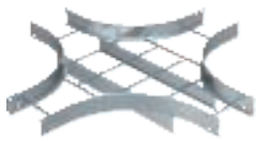
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LT 112 VS FS	200	1	893,000	**6219225**
LT 113 VS FS	300	1	1.068,000	**6219233**
LT 114 VS FS	400	1	1.159,000	**6219241**
LT 115 VS FS	500	1	1.188,000	**6219268**
LT 116 VS FS	600	1	1.409,000	**6219276**
LT 112 VS FT	200	1	940,000	**6219322**
LT 113 VS FT	300	1	1.132,000	**6219330**
LT 114 VS FT	400	1	1.228,000	**6219349**
LT 115 VS FT	500	1	1.251,000	**6219357**
LT 116 VS FT	600	1	1.493,000	**6219365**

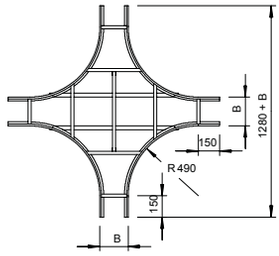
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.
Horizontal tee, for all cable ladders with a side height of 110 mm.

Cross-over





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LK 112 VS FS	200	1	1.221,000	**6219527**
LK 113 VS FS	300	1	1.451,000	**6219535**
LK 114 VS FS	400	1	1.465,000	**6219543**
LK 115 VS FS	500	1	1.667,000	**6219551**
LK 116 VS FS	600	1	1.853,000	**6219578**
LK 112 VS FT	200	1	1.286,000	**6219624**
LK 113 VS FT	300	1	1.537,000	**6219632**
LK 114 VS FT	400	1	1.543,000	**6219640**
LK 115 VS FT	500	1	1.766,000	**6219659**
LK 116 VS FT	600	1	1.963,000	**6219667**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.
Horizontal cross-over for all cable ladders with a side height of 110 mm.

Always indicate the item number when ordering.

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90° adjustable vertical bend

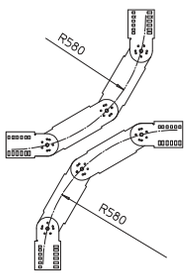
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LGBV 112 VS FS	200	1	402,000	**6218822**
LGBV 113 VS FS	300	1	431,000	**6218830**
LGBV 114 VS FS	400	1	460,000	**6218849**
LGBV 115 VS FS	500	1	489,000	**6218857**
LGBV 116 VS FS	600	1	519,000	**6218865**
LGBV 112 VS FT	200	1	426,000	**6218938**
LGBV 113 VS FT	300	1	457,000	**6218946**
LGBV 114 VS FT	400	1	488,000	**6218954**
LGBV 115 VS FT	500	1	519,000	**6218962**
LGBV 116 VS FT	600	1	540,000	**6218970**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

The fitting is shipped in an unmounted state including adjustable connectors and the appropriate bolts.
90° adjustable vertical bend, for all cable ladder types with a side height of 110 mm.





90° bend

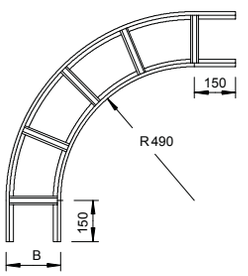
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SLBI 90 112VS FT	200	1	687,000	**6217786**
SLBI 90 113VS FT	300	1	775,000	**6217787**
SLBI 90 114VS FT	400	1	902,000	**6217788**
SLBI 90 115VS FT	500	1	1.000,000	**6217789**
SLBI 90 116VS FT	600	1	1.158,000	**6217790**

St Steel /pc.

FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.
90° bend horizontal for SLG cable ladders with a side height of 110 mm.





Tee

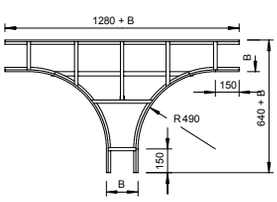
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SLT 112 VS FT	200	1	837,000	**6219182**
SLT 113 VS FT	300	1	1.007,000	**6219183**
SLT 114 VS FT	400	1	1.135,000	**6219184**
SLT 115 VS FT	500	1	1.264,000	**6219185**
SLT 116 VS FT	600	1	1.473,000	**6219186**

St Steel /pc.

FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.
T piece, horizontal, heavy-duty version, for all 2 mm cable ladders with 100 mm side height



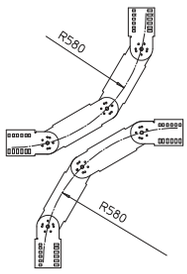


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Always indicate the item number when ordering.

Adjustable bend





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SLGBV 112 VS FT	200	1	553,000	**6219082**
SLGBV 113 VS FT	300	1	593,000	**6219083**
SLGBV 114 VS FT	400	1	633,000	**6219084**
SLGBV 115 VS FT	500	1	673,000	**6219085**
SLGBV 116 VS FT	600	1	714,000	**6219086**

St Steel /pc.

FT Hot-dip galvanised

The fitting is shipped in an unmounted state including articulated connectors and the appropriate screws.

90° adjustable bend, vertical, for all cable ladder types with a side height of 110 mm, heavy-duty version.

Always indicate the item number when ordering.

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Beam clamp for cable ladders

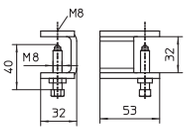
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KLL 32 FT	32	10	17,500	**6221061**

/pc.

St Steel

FT Hot-dip galvanised

Beam clamp for fastening cable ladders to steel girders.





Beam clamp for cable ladders

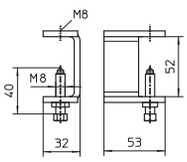
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KLL 52 FT	52	10	21,400	**6221071**

/pc.

St Steel

FT Hot-dip galvanised

Beam clamp for fastening cable ladders to steel girders.





Hold-down clamp

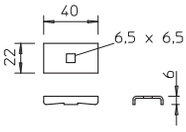
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LKS 40 FS	10	3,400	**6221076**
LKS 40 FT	10	3,400	**6221084**

/pc.

St Steel

FS Strip-galvanised FT Hot-dip galvanised

Hold-down clamp for fastening cable ladders.





Hold-down clamp

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LKS 60 4 FT	10	6,500	**6221122**

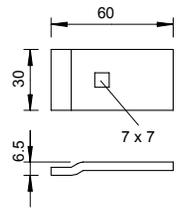
/pc.

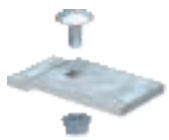
St Steel

FT Hot-dip galvanised

Fastening on brackets, type MWA 12, AW 15, AW 30 and AW 55, using the enclosed truss-head bolt FRS M6 x 20.

Hold-down clamp for fastening cable ladders.





Central suspension, universal

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MAHU 200 FS	200	20	27,500	**6358853**
MAHU 300 FS	300	20	39,300	**6358856**
MAHU 400 FS	400	20	68,800	**6358860**
MAHU 500 FS	500	20	85,800	**6358864**
MAHU 600 FS	600	15	103,300	**6358868**
MAHU 200 FT	200	20	28,700	**6358884**
MAHU 300 FT	300	20	43,300	**6358888**
MAHU 400 FT	400	20	71,300	**6358892**
MAHU 500 FT	500	20	89,100	**6358896**
MAHU 600 FT	600	15	107,000	**6358900**

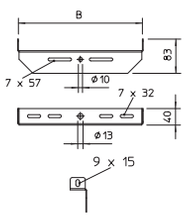
/pc.

St Steel

FS Strip-galvanised FT Hot-dip galvanised

Preferred use of this central suspension in combination with cable ladders and mesh cable trays.

Universal central suspension for fastening to threaded rods and supports.

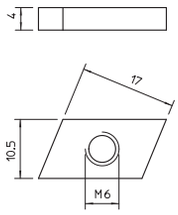




Always indicate the item number when ordering.

Slide nut



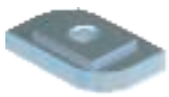


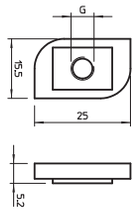
Type	Thread	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
5015 M6 OS VA	M6	w/o screw	100	0,440	**1141104**

V2A Stainless steel, grade 304 /100 pc.

Slide nut for profile rails with a slot width of 11–12 mm.
For NS rung, mountable from above.

Slide nut





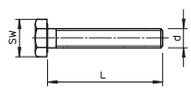
Type	Thread	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
5017 M6 OS FT	M6	w/o screw	100	1,015	**1143131**
5017 M6 OS VA	M6	w/o screw	100	0,985	**1143123**

St Steel V4A Stainless steel, grade 316 Ti /100 pc.
FT Hot-dip galvanised

Slide nut for profile rails with a slot width of 16–17 mm.
For VS rung, mountable from above.

Hexagonal bolt



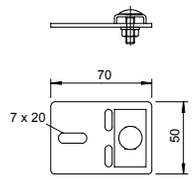


Type	Grade	Dim. d mm	Dim. L mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 6x10 A2	A2-70	6	10	10	100	0,420	**3156605**

V2A Stainless steel, A2 /100 pc.

Support





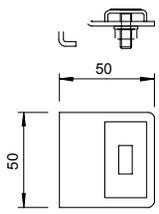
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LAL 70 FS	20	10,200	**6221009**
LAL 70 VA4301	20	10,200	**6221017**

St Steel V2A Stainless steel, grade 304 /pc.
FS Strip-galvanised

Support for fastening rising or falling cable ladders.

Support angle





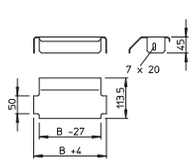
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LAW FT	10	9,200	**6221513**

St Steel /pc.
FT Hot-dip galvanised

Support bracket for creation of branches at different heights at a later date.

Support plate





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LALB 20 FT	200	10	37,700	**6221858**
LALB 30 FT	300	10	53,000	**6221866**
LALB 40 FT	400	10	73,000	**6221874**
LALB 50 FT	500	10	86,000	**6221882**
LALB 60 FT	600	10	116,000	**6221890**

St Steel /pc.
FT Hot-dip galvanised

Support plate to increase the cable volume and for cable protection

Always indicate the item number when ordering.

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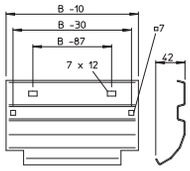
Drop-out plate

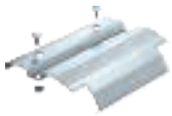
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LAB 20 FT	200	20	37,000	**6220436**
LAB 30 FT	300	25	58,000	**6220444**
LAB 40 FT	400	25	78,000	**6220452**
LAB 50 FT	500	15	99,000	**6220460**
LAB 60 FT	600	15	120,000	**6220479**

St Steel /pc.

FT Hot-dip galvanised

Exit plate for installation on the rung for vertically exiting cables.





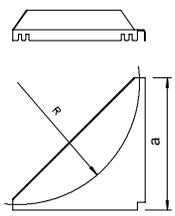
Corner plate

Type	radius mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LEB 25 FS	250	1	64,300	**6221203**
LEB 50 FS	500	1	206,200	**6221246**
LEB 25 DD	250	1	63,600	**6221216**
LEB 50 DD	500	1	205,500	**6221259**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Corner plate to increase the radius and the cable supporting surface.





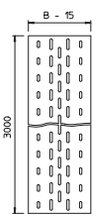
Insert plate

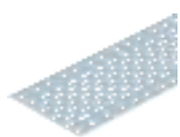
Type	Width mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
ELB-L 20 FS	200	1	3000	3	129,000	**6103235**
ELB-L 30 FS	300	1	3000	3	202,000	**6103251**
ELB-L 40 FS	400	1	3000	3	270,000	**6103286**
ELB-L 50 FS	500	1	3000	3	339,000	**6103316**
ELB-L 60 FS	600	1	3000	3	396,000	**6103332**
ELB-L 20 DD	200	1	3000	3	138,340	**6103352**
ELB-L 30 DD	300	1	3000	3	202,670	**6103356**
ELB-L 40 DD	400	1	3000	3	268,000	**6103360**
ELB-L 50 DD	500	1	3000	3	333,340	**6103364**
ELB-L 60 DD	600	1	3000	3	398,340	**6103368**

St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Insert plate for use in cable ladders.





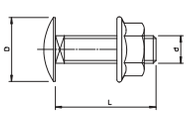
Truss-head bolt with flange nut

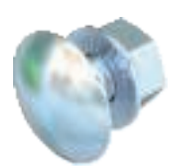
Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRSB 6X30 F	M6 x 30	30	6	13.5	100	1,200	**6406907**

St Steel /100 pc.

F Hot-dip galvanised

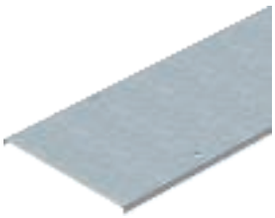
Truss-head bolt with square neck including flange nut.

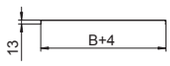


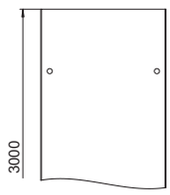


Always indicate the item number when ordering.

Cover







Type	Width mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRL 200 FS	200	1	3000	3	180,000	**6052207**
DRL 300 FS	300	1	3000	3	259,270	**6052304**
DRL 400 FS	400	1	3000	3	337,670	**6052401**
DRL 500 FS	500	1.25	3000	3	622,340	**6052509**
DRL 600 FS	600	1.25	3000	3	740,340	**6052606**
DRL 200 DD	200	1	3000	3	180,000	**6052709**
DRL 300 DD	300	1	3000	3	259,000	**6052712**
DRL 400 DD	400	1	3000	3	337,670	**6052715**
DRL 500 DD	500	1.25	3000	3	622,340	**6052718**
DRL 600 DD	600	1.25	3000	3	740,340	**6052724**

St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

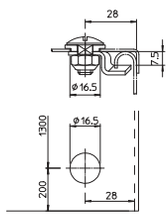
Transverse bead from 500 mm width.

Cover for cable trays and cable ladders with three pairs of turn buckles.

When using covers outdoors, additional measures against the influence of wind must be taken. Cover clamps or turn buckles on their own are not sufficient securing elements against wind loads.

Turn buckle





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DRLM 316 DD	10	2,800	**6222366**
DRLM 316 VA4301	10	2,800	**6222358**

St Steel V2A Stainless steel, grade 304 /pc.

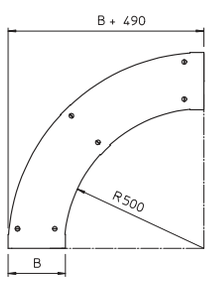
DD Strip galvanised zinc/aluminium, Double Dip

Single-sided turn-buckle. Use for cover widths of 50 – 600 mm.

Turn buckle for additional installation or installation at a later date.

Cover for 90° bend





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BID 90 200 FT	200	1	180,000	**6239153**
BID 90 300 FT	300	1	400,000	**6239161**
BID 90 400 FT	400	1	570,000	**6239188**
BID 90 500 FT	500	1	760,000	**6239196**
BID 90 600 FT	600	1	980,000	**6239218**

St Steel /pc.

FT Hot-dip galvanised

Cover with turn buckles for covering 90° cable ladder bends.

Always indicate the item number when ordering.

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Cover for tee

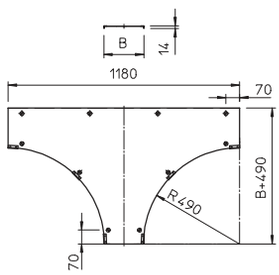
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
T D 200 FT	200	1	493,000	**6239773**
T D 300 FT	300	1	701,700	**6239781**
T D 400 FT	400	1	1.075,000	**6239803**
T D 500 FT	500	1	1.202,000	**6239811**
T D 600 FT	600	1	1.510,000	**6239838**

St Steel /pc.

FT Hot-dip galvanised

Cover with turn buckles for covering tees.





Cover for stand-off mounting

Type	Width mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRL FAM 230 FT	230	1.5	3000	3	323,600	**6051222**
DRL FAM 330 FT	330	1.5	3000	3	450,800	**6051224**
DRL FAM 430 FT	430	1.5	3000	3	577,930	**6051226**
DRL FAM 530 FT	530	1.5	3000	3	705,130	**6051228**
DRL FAM 630 FT	630	1.5	3000	3	832,270	**6051230**

St Steel /m

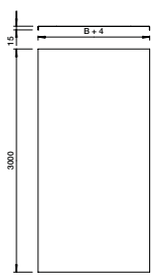
FT Hot-dip galvanised

Spacers to be ordered separately. 6065475 for cable trays and ladders, 6065477 for the wide-span systems.

Cover for stand-off mounting.

When using covers outdoors, additional measures against the influence of wind must be taken. Cover clamps or- turn buckles on their own are not sufficient securing elements against wind loads.



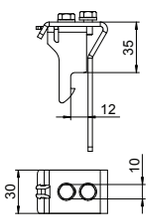


Spacer

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
AH 35 VA4301	35	8	14,100	**6065475**

V2A Stainless steel, grade 304 /pc.

Spacers for stand-off cover mounting on cable trays and cable ladders. Space height 35 mm, stainless steel 1.4301.



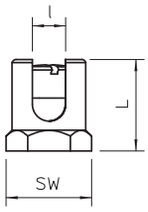


Earthing terminal

Type	Cross-section mm²	SW mm	Thread	Accessories	Pack. pcs	Weight kg/100 pcs.	Item No.
EKL 25 M8	25	21	M8	With screw M8 x 10	50	3,970	**6404001**

CuZn Brass /100 pc.

Earthing screw for fastening the equipotential bonding wire to the cable support system.





Always indicate the item number when ordering.

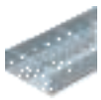


Wide span systems

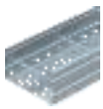
Always indicate the item number when ordering.

4 KTS Master_en_Export_043[6] / 25/10/2016 / en / 25/10/2016 / Export_en_Export_043[6] / 25/10/2016

Wide span systems



Wide span cable tray, side height 110 mm 432



Wide span cable tray, side height 160 mm 435



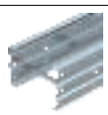
Wide span cable ladder, side height 110 mm 439



Wide span cable ladder, side height 160 mm 444



Accessories for cable tray/cable ladder, side rail height 110, 160 mm 448

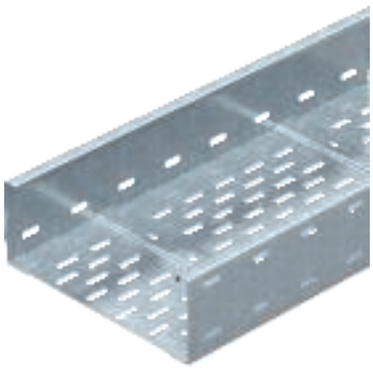


Wide span cable ladder, side height 200 mm 451



Accessories for wide span cable ladder, 200 mm 455

Wide span cable tray WKSG 110



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
WKSG 120 FS	200	2	6	710,000	**6098111**
WKSG 130 FS	300	2	6	815,000	**6098115**
WKSG 140 FS	400	2	6	920,000	**6098119**
WKSG 150 FS	500	2	6	1.023,000	**6098123**
WKSG 160 FS	600	2	6	1.128,300	**6098127**
WKSG 120 FT	200	2	6	748,300	**6098141**
WKSG 130 FT	300	2	6	861,670	**6098145**
WKSG 140 FT	400	2	6	973,000	**6098149**
WKSG 150 FT	500	2	6	1.085,000	**6098153**
WKSG 160 FT	600	2	6	1.197,000	**6098157**

St Steel /m

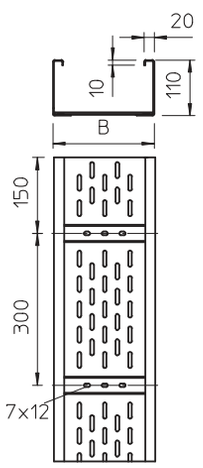
FS Strip-galvanised FT Hot-dip galvanised

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

WKSG 110 = wide span cable tray system, perforated, with a side height of 110 mm.

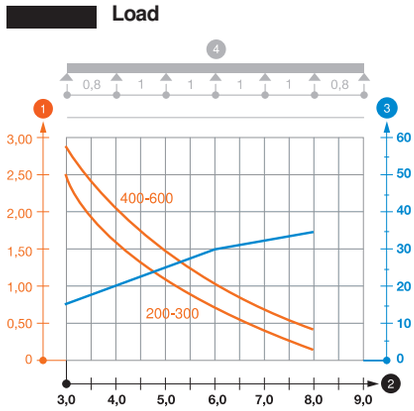
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Dimension B mm	Useful cross-section cm²	Side height mm	Plate thickness mm
WKSG 120 FS	6000	200	202	110	2
WKSG 130 FS	6000	300	305	110	2
WKSG 140 FS	6000	400	408	110	2
WKSG 150 FS	6000	500	511	110	2
WKSG 160 FS	6000	600	614	110	2

Load



Type	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	8.0 m kN/m
WKSG 120 FS	1.6	1.1	0.75	0.2
WKSG 130 FS	1.6	1.1	0.75	0.2
WKSG 140 FS	2	1.5	1	0.4
WKSG 150 FS	2	1.5	1	0.4
WKSG 160 FS	2	1.5	1	0.4

Load diagram, wide span cable tray, type WKSG 110

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

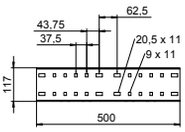
4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Straight connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRVL 110 FS	110	2	143,000	**6091164**
WRVL 110 FT	110	2	149,000	**6091180**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Including appropriate bolts, washers and nuts.

Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 110 mm.

Always indicate the item number when ordering.

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Straight and angle connector

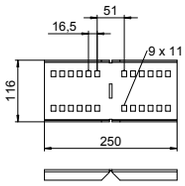
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWVK 110 FS	110	2	71,000	**6091377**
WRWVK 110 VA4301	110	2	69,000	**6091393**

St Steel V2A Stainless steel, grade 304 /pc.

FS Strip-galvanised

Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 110 mm.





Joint plate

Type	Width mm	Quantity of screws pc.	Pack. pcs	Weight kg/100 pcs.	Item No.
SSLB 200 FS	185	2	20	16,700	**7070213**
SSLB 300 FS	285	3	20	25,700	**7070217**
SSLB 400 FS	385	4	20	34,700	**7070221**
SSLB 500 FS	485	5	20	43,700	**7070225**
SSLB 600 FS	585	6	20	52,700	**7070233**
SSLB 200 DD	185	2	20	16,700	**7070314**
SSLB 300 DD	285	3	20	25,700	**7070318**
SSLB 400 DD	385	4	20	34,700	**7070322**
SSLB 500 DD	485	5	20	43,700	**7070326**
SSLB 600 DD	585	6	20	52,700	**7070334**

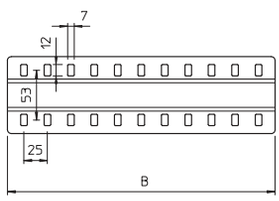
St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Including appropriate fastening material.

Wide joint plate for use in all cable trays and wide span cable trays.





Adjustable connector

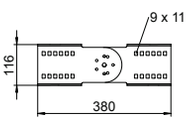
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRGV 110 FS	110	2	119,000	**6091318**
WRGV 110 FT	110	2	119,000	**6091334**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Including appropriate bolts, washers and nuts.

Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.





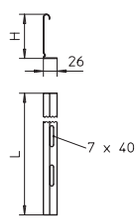
Barrier strip

Type	Dimension H mm	Plate thickness mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 85 FS	85	0.75	3000	3	70,300	**6062114**
TSG 85 DD	85	0.75	3000	3	70,300	**6062331**

St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.



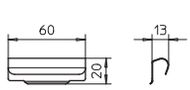


Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**

V2A Stainless steel, grade 301 /pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.

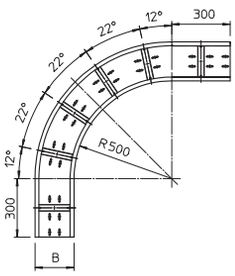




Always indicate the item number when ordering.

90° bend





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRB 90 120 FS	200	1	1.148,000	**6098304**
WRB 90 130 FS	300	1	1.428,000	**6098308**
WRB 90 140 FS	400	1	1.653,000	**6098312**
WRB 90 150 FS	500	1	1.935,000	**6098316**
WRB 90 160 FS	600	1	2.234,000	**6098320**
WRB 90 120 FT	200	1	1.207,000	**6098344**
WRB 90 130 FT	300	1	1.505,000	**6098348**
WRB 90 140 FT	400	1	1.744,000	**6098352**
WRB 90 150 FT	500	1	2.043,000	**6098356**
WRB 90 160 FT	600	1	2.360,000	**6098360**

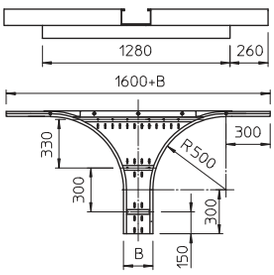
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

For further stabilisation, additional supports should be planned for the area of the fittings.
90° bend, horizontal, for all wide span cable trays of 110 mm side height.

Add-on tee





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRAA 120 FS	200	1	1.475,000	**6098405**
WRAA 130 FS	300	1	1.605,000	**6098409**
WRAA 140 FS	400	1	1.735,000	**6098413**
WRAA 150 FS	500	1	1.865,000	**6098417**
WRAA 160 FS	600	1	1.995,000	**6098421**
WRAA 120 FT	200	1	1.545,000	**6098445**
WRAA 130 FT	300	1	1.680,000	**6098449**
WRAA 140 FT	400	1	1.820,000	**6098453**
WRAA 150 FT	500	1	1.955,000	**6098457**
WRAA 160 FT	600	1	2.080,000	**6098461**

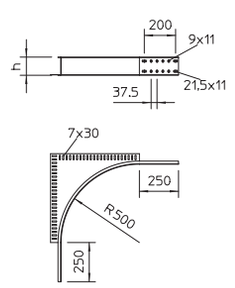
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

For further stabilisation, additional supports should be planned for the area of the fittings.
Add-on tee for horizontal use. For all wide span cable trays of 110 mm side height.
When installing the WRAA, the straight connector WRVL must be used in the corresponding side height.

Add-on corner





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WEAS 110 FS	110	1	504,000	**6098475**
WEAS 110 FT	110	1	534,000	**6098479**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Add-on corner for wide span cable trays and ladders with a side height of 110 mm.

Always indicate the item number when ordering.

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Wide span cable tray WKSG 160

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
WKSG 162 FS	200	2	6	873,300	**6098501**
WKSG 163 FS	300	2	6	981,670	**6098505**
WKSG 164 FS	400	2	6	1.090,000	**6098509**
WKSG 165 FS	500	2	6	1.196,670	**6098513**
WKSG 166 FS	600	2	6	1.305,000	**6098517**
WKSG 162 FT	200	2	6	921,670	**6098550**
WKSG 163 FT	300	2	6	1.038,340	**6098554**
WKSG 164 FT	400	2	6	1.155,000	**6098558**
WKSG 165 FT	500	2	6	1.271,700	**6098562**
WKSG 166 FT	600	2	6	1.388,340	**6098566**

St Steel /m

FS Strip-galvanised FT Hot-dip galvanised



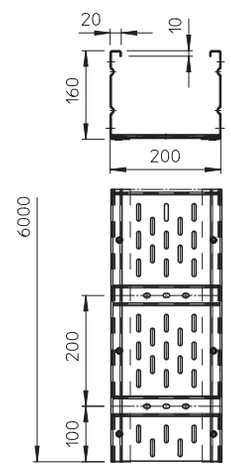
Straight connectors of type WRV 160 should be ordered separately and in the appropriate quantity.

WKSG 160 = wide span cable tray system, perforated, with a side height of 160 mm.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.

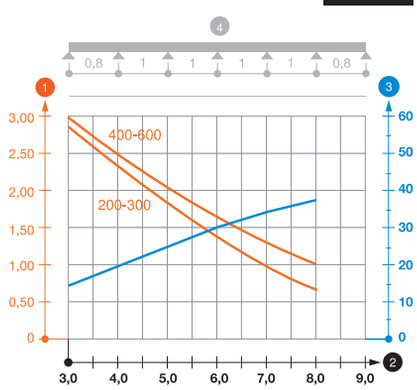
Dimensions

Type	Length mm	Dimension B mm	Useful cross-section cm²	Side height mm	Plate thickness mm
WKSG 162 FS	6000	200	302	160	2
WKSG 163 FS	6000	300	455	160	2
WKSG 164 FS	6000	400	608	160	2
WKSG 165 FS	6000	500	761	160	2
WKSG 166 FS	6000	600	914	160	2



Load

Type	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKSG 162 FS	1.8	1.4	1	0.7
WKSG 163 FS	1.8	1.4	1	0.7
WKSG 164 FS	2	1.6	1.3	1
WKSG 165 FS	2	1.6	1.3	1
WKSG 166 FS	2	1.6	1.3	1



Load diagram, wide span cable tray, type WKSG 160

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

Load curve with cable tray/ladder width in mm

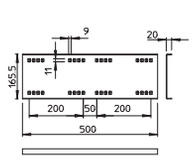
Strut bend curve according to support width

Straight connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRVL 160 FS	160	2	218,000	**6227708**
WRVL 160 FT	160	2	218,000	**6227716**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised





Including appropriate bolts, washers and nuts.

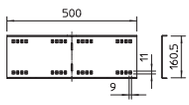
Straight connector for the connection of wide span cable trays and ladders of type WKSG and WKLG with a side height of 160 mm.

Always indicate the item number when ordering.

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Straight and angle connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWVK 160 FS	160	2	186,000	**6227832**
WRWVK 160 VA4301	160	2	186,000	**6227836**

St Steel V2A Stainless steel, grade 304 /pc.

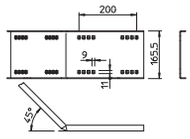
FS Strip-galvanised

Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 160 mm.

45° angle connector, internal connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWV 160 I FS	160	1	234,000	**6227902**
WRWV 160 I FT	160	1	234,000	**6227910**

St Steel /pc.

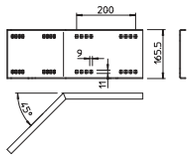
FS Strip-galvanised FT Hot-dip galvanised

Including appropriate bolts, washers and nuts.

45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

45° angle connector, horizontal, external connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWV 160 A FS	160	1	234,000	**6227856**
WRWV 160 A FT	160	1	234,000	**6227864**

St Steel /pc.

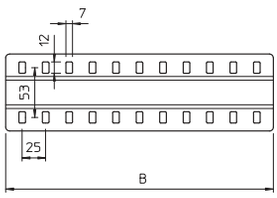
FS Strip-galvanised FT Hot-dip galvanised

Including appropriate bolts, washers and nuts.

45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

Joint plate





Type	Width mm	Quantity of screws pc.	Pack. pcs	Weight kg/100 pcs.	Item No.
SSLB 200 FS	185	2	20	16,700	**7070213**
SSLB 300 FS	285	3	20	25,700	**7070217**
SSLB 400 FS	385	4	20	34,700	**7070221**
SSLB 500 FS	485	5	20	43,700	**7070225**
SSLB 600 FS	585	6	20	52,700	**7070233**
SSLB 200 DD	185	2	20	16,700	**7070314**
SSLB 300 DD	285	3	20	25,700	**7070318**
SSLB 400 DD	385	4	20	34,700	**7070322**
SSLB 500 DD	485	5	20	43,700	**7070326**
SSLB 600 DD	585	6	20	52,700	**7070334**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Including appropriate fastening material.

Wide joint plate for use in all cable trays and wide span cable trays.

Always indicate the item number when ordering.

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Adjustable connector

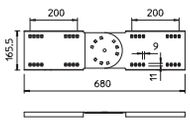
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRGV 160 FS	160	2	310,000	**6227953**
WRGV 160 FT	160	2	320,000	**6227961**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Including appropriate bolts, washers and nuts.

Adjustable connector for wide span cable trays and ladders with a side height of 160 mm.





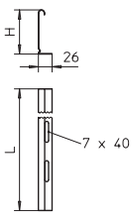
Barrier strip

Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 110 FS	110	3000	3	85,000	**6062122**
TSG 110 DD	110	3000	3	85,000	**6062335**

St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.





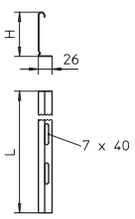
Barrier strip

Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 135 FS	135	3000	3	100,000	**6062132**
TSG 135 DD	135	3000	3	100,000	**6062338**

St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.



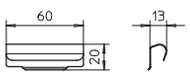


Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**

V2A Stainless steel, grade 301 /pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.





90° bend

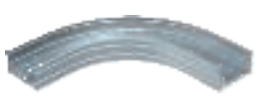
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRB 90 162 FS	200	1	1.390,000	**6098703**
WRB 90 163 FS	300	1	1.664,000	**6098707**
WRB 90 164 FS	400	1	1.920,000	**6098711**
WRB 90 165 FS	500	1	2.214,000	**6098715**
WRB 90 166 FS	600	1	2.526,000	**6098719**
WRB 90 162 FT	200	1	1.460,000	**6098730**
WRB 90 163 FT	300	1	1.751,000	**6098734**
WRB 90 164 FT	400	1	2.023,000	**6098738**
WRB 90 165 FT	500	1	2.335,000	**6098742**
WRB 90 166 FT	600	1	2.667,000	**6098746**

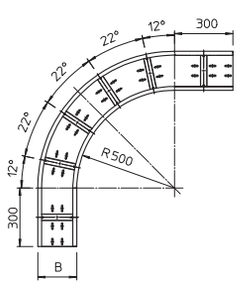
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

For further stabilisation, additional supports should be planned for the area of the fittings.

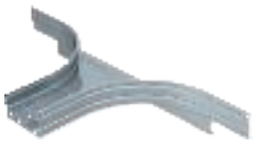
90° bend, horizontal, for all wide span cable trays of 160 mm side height.

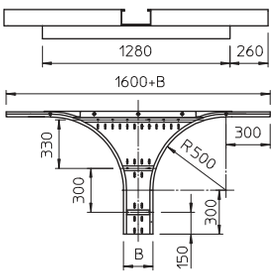




Always indicate the item number when ordering.

Add-on tee





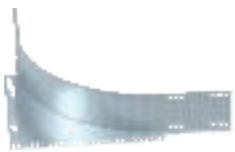
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRAA 162 FS	200	1	1.783,000	**6098800**
WRAA 163 FS	300	1	1.938,000	**6098804**
WRAA 164 FS	400	1	2.075,000	**6098808**
WRAA 165 FS	500	1	2.240,000	**6098812**
WRAA 166 FS	600	1	2.350,000	**6098816**
WRAA 162 FT	200	1	1.865,000	**6098827**
WRAA 163 FT	300	1	2.026,000	**6098831**
WRAA 164 FT	400	1	2.170,000	**6098835**
WRAA 165 FT	500	1	2.316,000	**6098839**
WRAA 166 FT	600	1	2.460,000	**6098843**

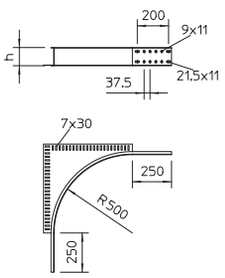
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

For further stabilisation, additional supports should be planned for the area of the fittings.
Add-on tee for horizontal use. For all wide span cable trays of 160 mm side height.

Add-on corner





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WEAS 160 FS	160	1	632,000	**6098860**
WEAS 160 FT	160	1	669,000	**6098864**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Add-on corner for wide span cable trays and ladders with a side height of 160 mm.

Always indicate the item number when ordering.

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Wide span cable ladder WKLG 110

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
WKLG 1120 FS	200	2	6	565,000	**6311008**
WKLG 1130 FS	300	2	6	591,000	**6311012**
WKLG 1140 FS	400	2	6	617,300	**6311016**
WKLG 1150 FS	500	2	6	644,300	**6311020**
WKLG 1160 FS	600	2	6	671,300	**6311024**
WKLG 1120 FT	200	2	6	591,000	**6311059**
WKLG 1130 FT	300	2	6	618,500	**6311063**
WKLG 1140 FT	400	2	6	646,700	**6311067**
WKLG 1150 FT	500	2	6	675,000	**6311071**
WKLG 1160 FT	600	2	6	703,700	**6311075**

St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

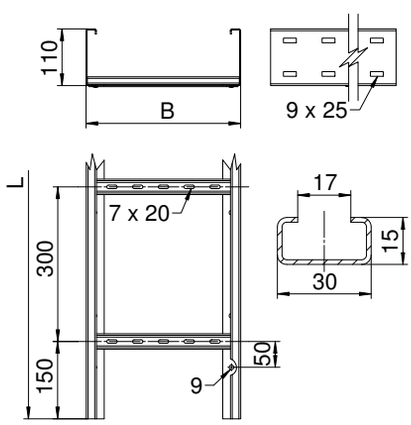
WKLG 110 = wide span cable ladder with perforated side rails of side height of 110 mm.

Magnetic shield insulation without cover 10 dB, with cover 15 dB.



Dimensions

Type	Length mm	Dimension B mm	Useful cross-section cm²	Side height mm	Plate thickness mm
WKLG 1120 FS	6000	200	186	110	2
WKLG 1130 FS	6000	300	281	110	2
WKLG 1140 FS	6000	400	376	110	2
WKLG 1150 FS	6000	500	471	110	2
WKLG 1160 FS	6000	600	566	110	2



Load

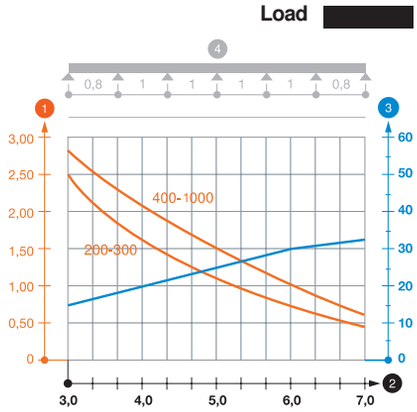
Type	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m
WKLG 1120 FS	1.6	1.1	0.8	0.4
WKLG 1130 FS	1.6	1.1	0.8	0.4
WKLG 1140 FS	2.1	1.5	1	0.7
WKLG 1150 FS	2.1	1.5	1	0.7
WKLG 1160 FS	2.1	1.5	1	0.7

Load diagram, wide span cable ladder, type WKLG 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

Load curve with cable tray/ladder width in mm

Strut bend curve according to support width

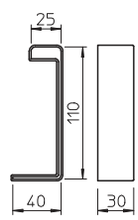


End cap

Type	Colour	Pack. pair	Weight kg/100 pairs	Item No.
SKHW 110 OR	Pastel orange	20	4,400	**6310398**

PE Polyethylene /pair

End cap to cover the ends of wide span cable ladders.



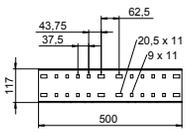


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Always indicate the item number when ordering.

Straight connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRVL 110 FS	110	2	143,000	**6091164**
WRVL 110 FT	110	2	149,000	**6091180**

/pc.

St Steel

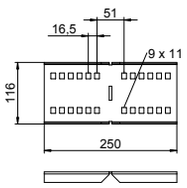
FS Strip-galvanised FT Hot-dip galvanised

Including appropriate bolts, washers and nuts.

Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 110 mm.

Straight and angle connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWVK 110 FS	110	2	71,000	**6091377**
WRWVK 110 VA4301	110	2	69,000	**6091393**

/pc.

St Steel V2A Stainless steel, grade 304

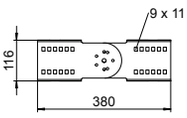
FS Strip-galvanised

Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 110 mm.

Adjustable connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRGV 110 FS	110	2	119,000	**6091318**
WRGV 110 FT	110	2	119,000	**6091334**

/pc.

St Steel

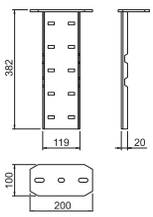
FS Strip-galvanised FT Hot-dip galvanised

Including appropriate bolts, washers and nuts.

Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.

Base plate for wide span systems





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WFP 110 FT	110	1	265,000	**6232500**

/pc.

St Steel

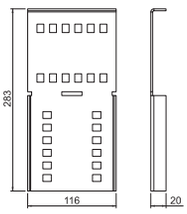
FT Hot-dip galvanised

Including appropriate bolts, washers and nuts.

Base plate WFP for accepting wide span systems, for example, for vertical routing of wide span cable trays.

Straight and angle connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWVV 110 FS	110	2	60,000	**6091379**

/pc.

St Steel

FS Strip-galvanised

Including appropriate bolts, washers and nuts.

Angle connector WRWVV for connecting vertical and horizontal wide span systems.

Always indicate the item number when ordering.

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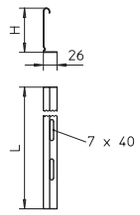
Barrier strip

Type	Dimension H mm	Plate thickness mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 85 FS	85	0.75	3000	3	70,300	**6062114**
TSG 85 DD	85	0.75	3000	3	70,300	**6062331**

St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.



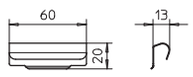


Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**

V2A Stainless steel, grade 301 /pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.



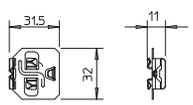


Hold-down clamp for barrier strip fastening

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KL VA4310	30	0,512	**6062284**

V2A Stainless steel, grade 301 /100 pc.

Hold-down clamp for screwless fastening of barrier strips in cable ladders.





90° bend

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WLB 90 112 FS	200	1	900,000	**6312330**
WLB 90 113 FS	300	1	971,000	**6312349**
WLB 90 114 FS	400	1	1.130,000	**6312357**
WLB 90 115 FS	500	1	1.176,000	**6312365**
WLB 90 116 FS	600	1	1.330,000	**6312373**
WLB 90 112 FT	200	1	940,000	**6312438**
WLB 90 113 FT	300	1	1.016,000	**6312446**
WLB 90 114 FT	400	1	1.180,000	**6312454**
WLB 90 115 FT	500	1	1.233,000	**6312462**
WLB 90 116 FT	600	1	1.370,000	**6312470**

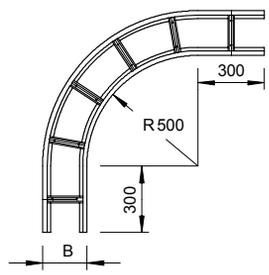
St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

For further stabilisation, additional supports should be planned for the area of the fittings.

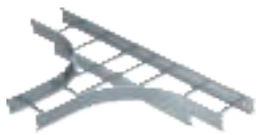
90° bend, horizontal, for all wide span cable ladders of 110 mm side height.

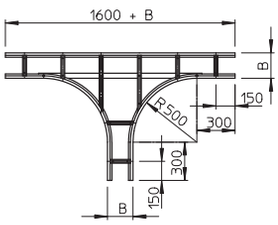




Always indicate the item number when ordering.

Tee





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WLT 1120 FS	200	1	1.750,000	**6312632**
WLT 1130 FS	300	1	1.927,000	**6312640**
WLT 1140 FS	400	1	1.990,000	**6312659**
WLT 1150 FS	500	1	2.172,000	**6312667**
WLT 1160 FS	600	1	2.340,000	**6312675**
WLT 1120 FT	200	1	1.830,000	**6312713**
WLT 1130 FT	300	1	2.017,000	**6312721**
WLT 1140 FT	400	1	2.080,000	**6312748**
WLT 1150 FT	500	1	2.275,000	**6312756**
WLT 1160 FT	600	1	2.440,000	**6312764**

St Steel /pc.

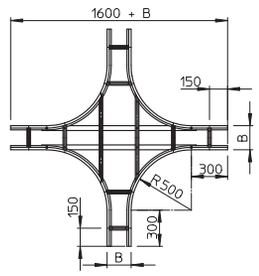
FS Strip-galvanised FT Hot-dip galvanised

For further stabilisation, additional supports should be planned for the area of the fittings.

Horizontal tee, for all wide span cable ladders of 110 mm side height.

Cross-over





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WLK 1120 FT	200	1	2.616,000	**6312934**
WLK 1130 FT	300	1	2.844,000	**6312942**
WLK 1140 FT	400	1	2.997,000	**6312950**
WLK 1150 FT	500	1	3.145,000	**6312969**
WLK 1160 FT	600	1	3.295,000	**6312977**

St Steel /pc.

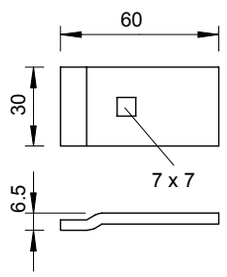
FT Hot-dip galvanised

For further stabilisation, additional supports should be planned for the area of the fittings.

Horizontal cross-over for all wide span cable ladders of 110 mm side height.

Hold-down clamp





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LKS 60 4 FT	10	6,500	**6221122**

St Steel /pc.

FT Hot-dip galvanised

Fastening on brackets, type MWA 12, AW 15, AW 30 and AW 55, using the enclosed truss-head bolt FRS M6 x 20.

Hold-down clamp for fastening cable ladders.

Always indicate the item number when ordering.

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Hold-down clamp

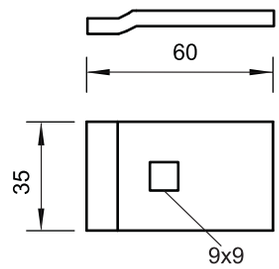
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LKS 60 5 FT	10	10,000	**6232485**

St Steel /pc.

FT Hot-dip galvanised

Fastening on bracket, type AW 80, and AWSS using the enclosed truss-head bolt FRS M8 x 20.
Hold-down clamp for fastening wide span cable ladders.





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Always indicate the item number when ordering.

Wide span cable ladder WKLG 160



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
WKLG 1620 FS	200	2	6	737,300	**6227023**
WKLG 1630 FS	300	2	6	767,300	**6227031**
WKLG 1640 FS	400	2	6	797,300	**6227058**
WKLG 1650 FS	500	2	6	828,500	**6227066**
WKLG 1660 FS	600	2	6	859,300	**6227074**
WKLG 1620 FT	200	2	6	770,700	**6227120**
WKLG 1630 FT	300	2	6	802,500	**6227139**
WKLG 1640 FT	400	2	6	835,000	**6227147**
WKLG 1650 FT	500	2	6	867,300	**6227155**
WKLG 1660 FT	600	2	6	900,000	**6227163**

St Steel /m

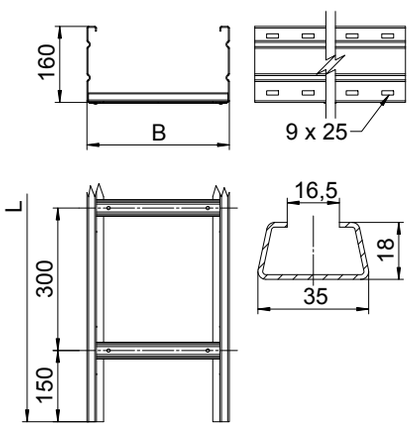
FS Strip-galvanised FT Hot-dip galvanised

Straight connectors of type WRV 160 should be ordered separately and in the appropriate quantity.

WKLG 160 = wide span cable ladder with perforated side rails of side height of 160 mm.

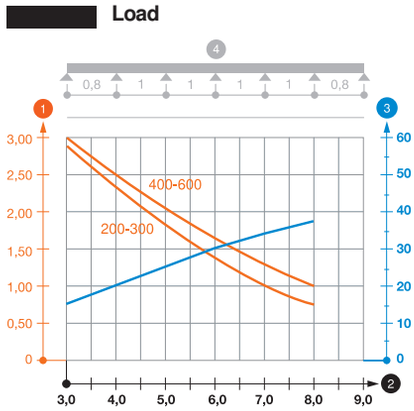
Magnetic shield insulation without cover 10 dB, with cover 15 dB.

Dimensions



Type	Length mm	Dimension B mm	Useful cross-section cm²	Side height mm	Plate thickness mm
WKLG 1620 FS	6000	200	282	160	2
WKLG 1630 FS	6000	300	427	160	2
WKLG 1640 FS	6000	400	572	160	2
WKLG 1650 FS	6000	500	717	160	2
WKLG 1660 FS	6000	600	857	160	2

Load



Type	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKLG 1620 FS	1.8	1.4	1	0.7
WKLG 1630 FS	1.8	1.4	1	0.7
WKLG 1640 FS	2	1.6	1.3	1
WKLG 1650 FS	2	1.6	1.3	1
WKLG 1660 FS	2	1.6	1.3	1

Load diagram, wide span cable ladder, type WKLG 160

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

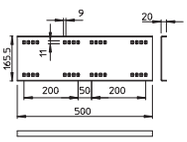
4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Straight connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRVL 160 FS	160	2	218,000	**6227708**
WRVL 160 FT	160	2	218,000	**6227716**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Including appropriate bolts, washers and nuts.

Straight connector for the connection of wide span cable trays and ladders of type WKSG and WKLG with a side height of 160 mm.

Straight and angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWVK 160 FS	160	2	186,000	**6227832**
WRWVK 160 VA4301	160	2	186,000	**6227836**

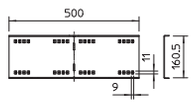
/pc.

St Steel V2A Stainless steel, grade 304

FS Strip-galvanised

Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 160 mm.





45° angle connector, internal connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWV 160 I FS	160	1	234,000	**6227902**
WRWV 160 I FT	160	1	234,000	**6227910**

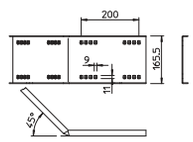
/pc.

St Steel

FS Strip-galvanised FT Hot-dip galvanised

Including appropriate bolts, washers and nuts.

45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.





45° angle connector, horizontal, external connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWV 160 A FS	160	1	234,000	**6227856**
WRWV 160 A FT	160	1	234,000	**6227864**

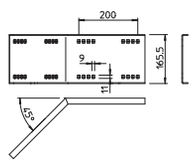
/pc.

St Steel

FS Strip-galvanised FT Hot-dip galvanised

Including appropriate bolts, washers and nuts.

45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.





Adjustable connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRGV 160 FS	160	2	310,000	**6227953**
WRGV 160 FT	160	2	320,000	**6227961**

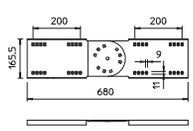
/pc.

St Steel

FS Strip-galvanised FT Hot-dip galvanised

Including appropriate bolts, washers and nuts.

Adjustable connector for wide span cable trays and ladders with a side height of 160 mm.





Hold-down clamp

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LKS 60 5 FT	10	10,000	**6232485**

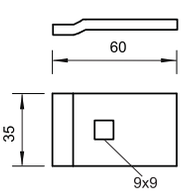
/pc.

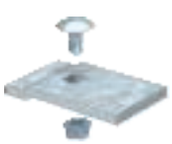
St Steel

FT Hot-dip galvanised

Fastening on bracket, type AW 80, and AWSS using the enclosed truss-head bolt FRS M8 x 20.

Hold-down clamp for fastening wide span cable ladders.



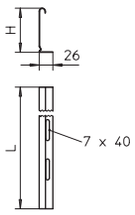


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Always indicate the item number when ordering.

Barrier strip





Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 110 FS	110	3000	3	85,000	**6062122**
TSG 110 DD	110	3000	3	85,000	**6062335**

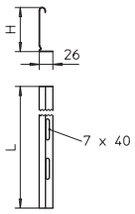
St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.

Barrier strip





Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 135 FS	135	3000	3	100,000	**6062132**
TSG 135 DD	135	3000	3	100,000	**6062338**

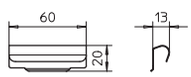
St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.

Barrier strip connector





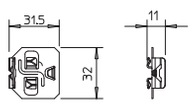
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**

V2A Stainless steel, grade 301 /pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.

Hold-down clamp for barrier strip fastening





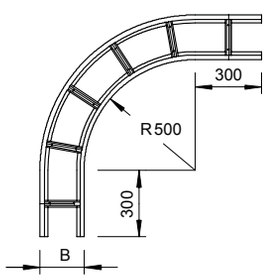
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KL VA4310	30	0,512	**6062284**

V2A Stainless steel, grade 301 /100 pc.

Hold-down clamp for screwless fastening of barrier strips in cable ladders.

90° bend





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WLB 90 162 FS	200	1	1.145,000	**6229336**
WLB 90 163 FS	300	1	1.250,000	**6229344**
WLB 90 164 FS	400	1	1.355,000	**6229352**
WLB 90 165 FS	500	1	1.504,000	**6229360**
WLB 90 166 FS	600	1	1.618,000	**6229379**
WLB 90 162 FT	200	1	1.200,000	**6229425**
WLB 90 163 FT	300	1	1.310,000	**6229433**
WLB 90 164 FT	400	1	1.420,000	**6229441**
WLB 90 165 FT	500	1	1.576,000	**6229468**
WLB 90 166 FT	600	1	1.996,000	**6229476**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

For further stabilisation, additional supports should be planned for the area of the fittings.

90° bend, horizontal, for all wide span cable ladders of 160 mm side height.

Always indicate the item number when ordering.

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Tee

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WLT 1620 FT	200	1	2.345,000	**6229727**
WLT 1630 FT	300	1	2.565,000	**6229735**
WLT 1640 FT	400	1	2.725,000	**6229743**
WLT 1650 FT	500	1	2.885,000	**6229751**
WLT 1660 FT	600	1	3.040,000	**6229778**

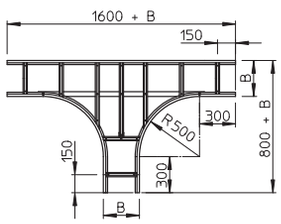
St Steel /pc.

FT Hot-dip galvanised

For further stabilisation, additional supports should be planned for the area of the fittings.

Horizontal tee, for all wide span cable ladders of 160 mm side height.





90° vertical bend, rising

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WLBS 90 162 FT	200	1	1.275,000	**6230423**
WLBS 90 163 FT	300	1	1.335,000	**6230431**
WLBS 90 164 FT	400	1	1.385,000	**6230458**
WLBS 90 165 FT	500	1	1.445,000	**6230466**
WLBS 90 166 FT	600	1	1.495,000	**6230474**

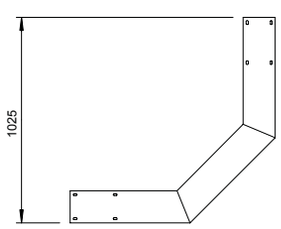
St Steel /pc.

FT Hot-dip galvanised

For further stabilisation, additional supports should be planned for the area of the fittings.

90° vertical bend, for all wide span cable ladders of 160 mm side height.





90° vertical bend, falling

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WLBF 90 162 FT	200	1	1.275,000	**6230725**
WLBF 90 163 FT	300	1	1.335,000	**6230733**
WLBF 90 164 FT	400	1	1.385,000	**6230741**
WLBF 90 165 FT	500	1	1.445,000	**6230768**
WLBF 90 166 FT	600	1	1.495,000	**6230776**

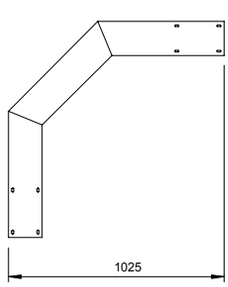
St Steel /pc.

FT Hot-dip galvanised

For further stabilisation, additional supports should be planned for the area of the fittings.

90° vertical bend, for all wide span cable ladders of 160 mm side height.

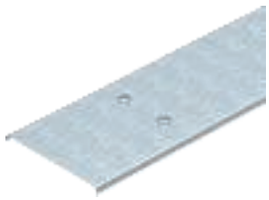


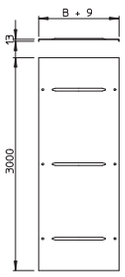


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Always indicate the item number when ordering.

Cover





Type	Width mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
WDRL 1116 20 FS	200	1	3000	3	180,000	**6227422**
WDRL 1116 30 FS	300	1	3000	3	260,000	**6227430**
WDRL 1116 40 FS	400	1	3000	3	495,555	**6227449**
WDRL 1116 50 FS	500	1.5	3000	3	520,000	**6227457**
WDRL 1116 60 FS	600	1.5	3000	3	617,000	**6227465**
WDRL 1116 20 DD	200	1	3000	3	193,340	**6227600**
WDRL 1116 30 DD	300	1	3000	3	272,000	**6227604**
WDRL 1116 40 DD	400	1	3000	3	521,067	**6227608**
WDRL 1116 50 DD	500	1.5	3000	3	639,340	**6227612**
WDRL 1116 60 DD	600	1.5	3000	3	760,000	**6227616**

St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

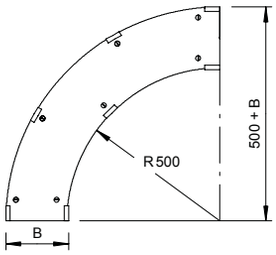
Transverse bead from 500 mm width.

Cover with turn-buckles for wide span cable tray and wide span cable ladder with side heights of 110 and 160 mm.

Take appropriate constructive protection measures if there are high wind speeds.

Cover for 90° bend





Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDBRL 90 20 FS	200	1	1	150,000	**6231462**
WDBRL 90 30 FS	300	1	1	263,000	**6231470**
WDBRL 90 40 FS	400	1	1	440,000	**6231489**
WDBRL 90 50 FS	500	1	1	600,000	**6231497**
WDBRL 90 60 FS	600	1	1	750,000	**6231500**
WDBRL 90 20 DD	200	1	1	245,000	**6231527**
WDBRL 90 30 DD	300	1	1	263,000	**6231535**
WDBRL 90 40 DD	400	1	1	545,000	**6231543**
WDBRL 90 50 DD	500	1	1	697,000	**6231551**
WDBRL 90 60 DD	600	1	1	945,000	**6231578**

St Steel /pc.

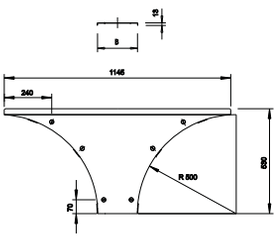
FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

As the connector is mounted from the outside, the fitting cover is 300 mm shorter than the corresponding fitting. This must be observed when installing the track elements.

Cover for wide span 90° bend with pre-mounted turn-buckles.

Cover for add-on tee





Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WAAD 200 FS	200	1.5	1	193,000	**6231900**
WAAD 300 FS	300	1.5	1	234,000	**6231904**
WAAD 400 FS	400	1.5	1	413,000	**6231908**
WAAD 500 FS	500	1.5	1	476,000	**6231912**
WAAD 600 FS	600	1.5	1	538,000	**6231916**
WAAD 200 DD	200	1.5	1	193,000	**6231922**
WAAD 300 DD	300	1.5	1	234,000	**6231926**
WAAD 400 DD	400	1.5	1	413,000	**6231930**
WAAD 500 DD	500	1.5	1	476,000	**6231934**
WAAD 600 DD	600	1.5	1	538,000	**6231938**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Cover for wide span add-on tee with pre-mounted turn-buckles.

Always indicate the item number when ordering.

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Cover for tee

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDTRL 200 DD	200	1	1	392,000	**6231667**
WDTRL 300 DD	300	1	1	552,000	**6231675**
WDTRL 400 DD	400	1	1	1.047,000	**6231683**
WDTRL 500 DD	500	1.25	1	1.380,000	**6231691**
WDTRL 600 DD	600	1.25	1	1.690,000	**6231705**

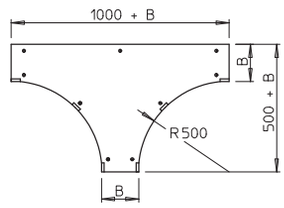
St Steel /pc.

DD Strip galvanised zinc/aluminium, Double Dip



As the connector is mounted from the outside, the fitting cover is 300 mm shorter than the corresponding fitting. This must be observed when installing the track elements.

Cover for wide span tee with pre-mounted turn-buckles.

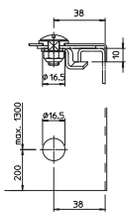


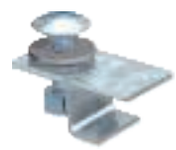
Turn buckle

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
WDR 317 VA4301	10	4,300	**6227627**

V2A Stainless steel, grade 304 /pc.

Turn buckle for additional installation or installation at a later date in wide span covers of side heights 110 and 160 mm.





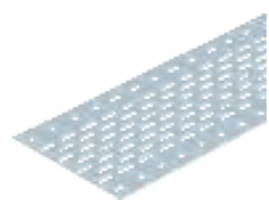
Insert plate

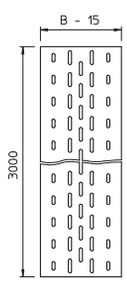
Type	Width mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
ELB-L 20 FS	200	1	3000	3	129,000	**6103235**
ELB-L 30 FS	300	1	3000	3	202,000	**6103251**
ELB-L 40 FS	400	1	3000	3	270,000	**6103286**
ELB-L 50 FS	500	1	3000	3	339,000	**6103316**
ELB-L 60 FS	600	1	3000	3	396,000	**6103332**
ELB-L 20 DD	200	1	3000	3	138,340	**6103352**
ELB-L 30 DD	300	1	3000	3	202,670	**6103356**
ELB-L 40 DD	400	1	3000	3	268,000	**6103360**
ELB-L 50 DD	500	1	3000	3	333,340	**6103364**
ELB-L 60 DD	600	1	3000	3	398,340	**6103368**

St Steel /m

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Insert plate for use in cable ladders.





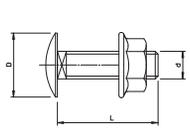
Truss-head bolt with flange nut

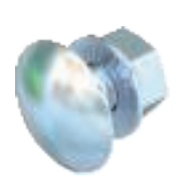
Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRSB 6X30 F	M6 x 30	30	6	13.5	100	1,200	**6406907**

St Steel /100 pc.

F Hot-dip galvanised

Truss-head bolt with square neck including flange nut.





Always indicate the item number when ordering.

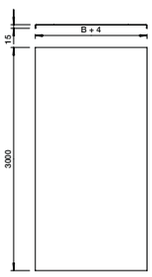
Cover for stand-off mounting



Type	Width mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRL FAM 230 FT	230	1.5	3000	3	323,600	**6051222**
DRL FAM 330 FT	330	1.5	3000	3	450,800	**6051224**
DRL FAM 430 FT	430	1.5	3000	3	577,930	**6051226**
DRL FAM 530 FT	530	1.5	3000	3	705,130	**6051228**
DRL FAM 630 FT	630	1.5	3000	3	832,270	**6051230**

St Steel /m

FT Hot-dip galvanised



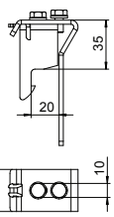
Spacers to be ordered separately. 6065475 for cable trays and ladders, 6065477 for the wide-span systems.

Cover for stand-off mounting.

When using covers outdoors, additional measures against the influence of wind must be taken. Cover clamps or- turn buckles on their own are not sufficient securing elements against wind loads.

Spacer



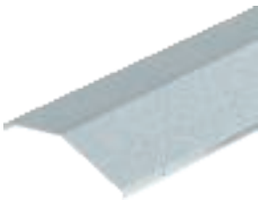


Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
AH 35 WS VA4301	35	8	14,500	**6065477**

V2A Stainless steel, grade 304 /pc.

Spacer for cover mounting on wide-span trays and ladders. 35mm spacing, stainless steel grade 304.

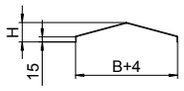
Roof-form cover

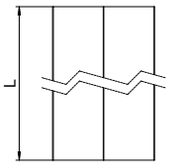


Type	Dimen- sion B mm	Length mm	Dimen- sion H mm	Pack. m	Weight kg/100 m	Item No.
WDRLU DF1116 2FT	200	3000	45	3	380,000	**6227261**
WDRLU DF1116 3FT	300	3000	58	3	544,330	**6227263**
WDRLU DF1116 4FT	400	3000	72	3	707,000	**6227265**
WDRLU DF1116 5FT	500	3000	85	3	869,330	**6227267**
WDRLU DF1116 6FT	600	3000	98	3	1.032,000	**6227269**

St Steel /m

FT Hot-dip galvanised





The bolts are not included in the scope of delivery.

Roof-form cover for installing on cable trays, cable ladders and wide span systems. Self-tapping drilling screws are used for fastening.

Drilling screw





Type	Dimension mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BS BKS KP	M4, 2 x 16	100	0,180	**6049250**

St Steel /100 pc.

G Electrogalvanised

Drilling screw according to DIN 7504.

Always indicate the item number when ordering.

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Wide span cable ladder WKL 200

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
WKL 2020 FT	200	2.5	6	1.320,000	**6232027**
WKL 2030 FT	300	2.5	6	1.358,000	**6232035**
WKL 2040 FT	400	2.5	6	1.398,000	**6232043**
WKL 2050 FT	500	2.5	6	1.440,000	**6232051**
WKL 2060 FT	600	2.5	6	1.423,000	**6232078**

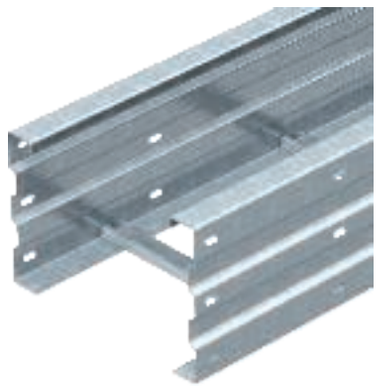
St Steel /m

FT Hot-dip galvanised

Straight connectors of type WRV 200 should be ordered separately and in the appropriate quantity.

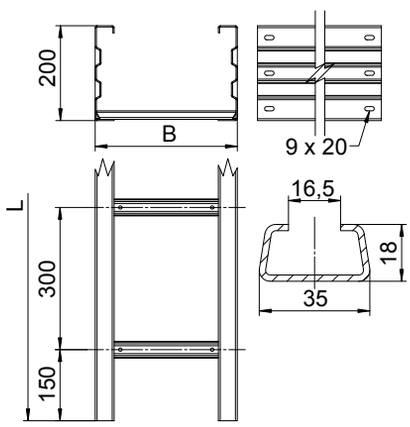
WKL 200 = wide span cable ladder with a side height of 200 mm.

Magnetic shield insulation without cover 10 dB, with cover 15 dB.



Dimensions

Type	Length mm	Dimension B mm	Useful cross-section cm²	Side height mm	Plate thickness mm
WKL 2020 FT	6000	200	344	200	2.5
WKL 2030 FT	6000	300	524	200	2.5
WKL 2040 FT	6000	400	704	200	2.5
WKL 2050 FT	6000	500	884	200	2.5
WKL 2060 FT	6000	600	1064	200	2.5



Load

Type	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m	9.0 m kN/m	10.0 m kN/m
WKL 2020 FT	3	2.5	2	1.4	1
WKL 2030 FT	3	2.5	2	1.4	1
WKL 2040 FT	3	2.5	2	1.4	1
WKL 2050 FT	3	2.5	2	1.4	1
WKL 2060 FT	3	2.5	2	1.4	1

Load diagram, wide span cable ladder, type WKL 200

1 Permitted cable tray/ladder load in kN/m without man load

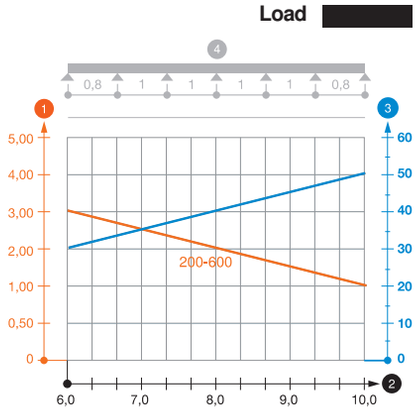
2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width



Straight connector

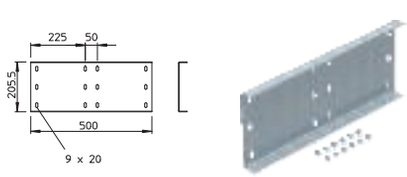
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRV 200 FT	200	4	298,000	**6232507**

St Steel /pc.

FT Hot-dip galvanised

Including appropriate bolts, washers and nuts.

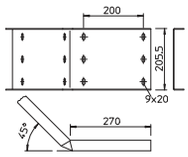
Straight connector for connections of wide span cable ladders and fittings with a side height of 200 mm.



Always indicate the item number when ordering.

45° angle connector, internal connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWV 200 I FT	200	4	322,000	**6232612**

/pc.

St Steel

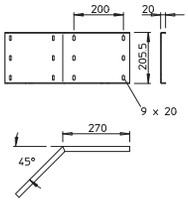
FT Hot-dip galvanised

Including appropriate bolts, washers and nuts.

45° angle connector, horizontal, for wide span cable ladders of 200 mm side height.

45° angle connector, horizontal, external connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWV 200 A FT	200	4	322,000	**6232604**

/pc.

St Steel

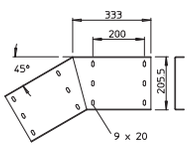
FT Hot-dip galvanised

Including appropriate bolts, washers and nuts.

45° angle connector, horizontal, for wide span cable ladders of 200 mm side height.

45° angle connector, vertical





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWV 200 V FT	200	4	343,000	**6232663**

/pc.

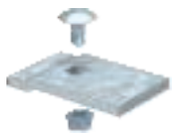
St Steel

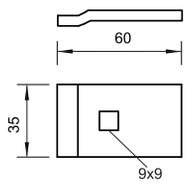
FT Hot-dip galvanised

Including appropriate bolts, washers and nuts.

45° angle connector, vertical, for wide span cable ladders of 200 mm side height.

Hold-down clamp





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LKS 60 5 FT	10	10,000	**6232485**

/pc.

St Steel

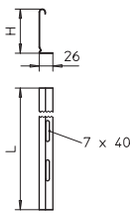
FT Hot-dip galvanised

Fastening on bracket, type AW 80, and AWSS using the enclosed truss-head bolt FRS M8 x 20.

Hold-down clamp for fastening wide span cable ladders.

Barrier strip





Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 110 FS	110	3000	3	85,000	**6062122**
TSG 110 DD	110	3000	3	85,000	**6062335**

/m

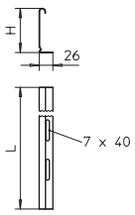
St Steel

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.

Barrier strip





Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 135 FS	135	3000	3	100,000	**6062132**
TSG 135 DD	135	3000	3	100,000	**6062338**

/m

St Steel

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Barrier strip for separation of cables of different voltages or functions.

Always indicate the item number when ordering.

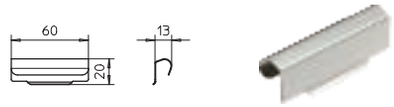
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Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**

V2A Stainless steel, grade 301 /pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.



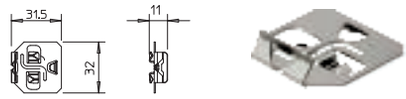


Hold-down clamp for barrier strip fastening

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KL VA4310	30	0,512	**6062284**

V2A Stainless steel, grade 301 /100 pc.

Hold-down clamp for screwless fastening of barrier strips in cable ladders.



90° bend

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WLB 90 2020 FT	200	1	1.881,000	**6233422**
WLB 90 2030 FT	300	1	2.060,000	**6233430**
WLB 90 2040 FT	400	1	2.241,000	**6233449**
WLB 90 2050 FT	500	1	2.421,000	**6233457**
WLB 90 2060 FT	600	1	2.600,000	**6233465**

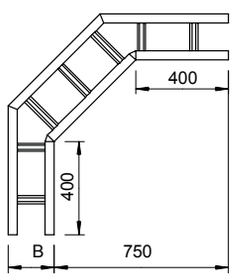
St Steel /pc.

FT Hot-dip galvanised

For further stabilisation, additional supports should be planned for the area of the fittings.

90° bend, horizontal, for all wide span cable ladders of 200 mm side height.





Tee

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WLT 2020 FT	200	1	3.372,000	**6233627**
WLT 2030 FT	300	1	3.580,000	**6233635**
WLT 2040 FT	400	1	3.787,000	**6233643**
WLT 2050 FT	500	1	4.089,000	**6233651**
WLT 2060 FT	600	1	4.308,000	**6233678**

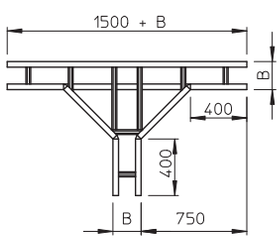
St Steel /pc.

FT Hot-dip galvanised

For further stabilisation, additional supports should be planned for the area of the fittings.

Horizontal tee, for all wide span cable ladders of 200 mm side height.





Always indicate the item number when ordering.

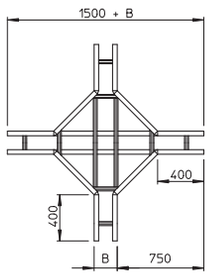
Cross-over



Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WKLK 2020 FT	200	1	4.675,000	**6233724**
WKLK 2030 FT	300	1	4.900,000	**6233732**
WKLK 2040 FT	400	1	5.125,000	**6233740**
WKLK 2050 FT	500	1	5.480,000	**6233759**
WKLK 2060 FT	600	1	5.720,000	**6233767**

St Steel /pc.

FT Hot-dip galvanised



For further stabilisation, additional supports should be planned for the area of the fittings.

Horizontal cross-over for all wide span cable ladders of 200 mm side height.

Always indicate the item number when ordering.

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Cover incl. turn-buckles

Type		Length mm	Pack. m	Weight kg/100 m	Item No.
WKLD 2020 DD	—	3000	3	270,000	**6232380**
WKLD 2030 DD	—	3000	3	390,000	**6232384**
WKLD 2040 DD	—	3000	3	507,000	**6232388**
WKLD 2050 DD	—	3000	3	624,000	**6232392**
WKLD 2060 DD	—	3000	3	744,000	**6232396**

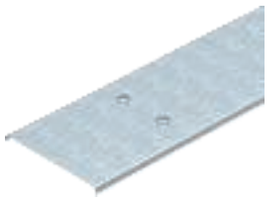
St Steel /m

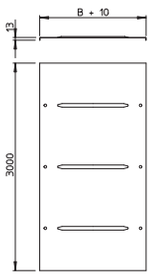
DD Strip galvanised zinc/aluminium, Double Dip

Transverse bead from 500 mm width

Cover for wide span cable ladders of side height 200 mm.

Take appropriate constructive protection measures if there are high wind speeds.



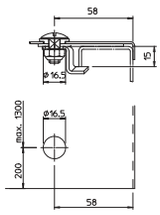


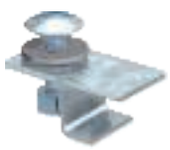
Turn buckle

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
WDR 317 A VA4301	10	2,800	**6232434**

V2A Stainless steel, grade 304 /pc.

Turn buckle for additional installation or installation at a later date in the cover for wide span cable ladders, type WKLD 200.





Always indicate the item number when ordering.



Vertical ladder systems

Always indicate the item number when ordering.

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Vertical ladder systems

	Light-duty cable ladder	458
	Medium-duty cable ladder	460
	Heavy-duty cable ladder with US 5 support	464
	Vertical cable ladder, modular system	464
	Industrial cable ladder	468
	U clamp	473

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Light-duty vertical cable ladder, 3.000 mm



Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
LG 620 VS 3 FS	200	1.5	3	281,700	**6208538**
LG 630 VS 3 FS	300	1.5	3	306,000	**6208541**
LG 640 VS 3 FS	400	1.5	3	330,000	**6208544**
LG 650 VS 3 FS	500	1.5	3	354,300	**6208547**
LG 660 VS 3 FS	600	1.5	3	378,300	**6208550**
LG 620 VS 3 FT	200	1.5	3	298,300	**6208562**
LG 630 VS 3 FT	300	1.5	3	324,300	**6208566**
LG 640 VS 3 FT	400	1.5	3	350,000	**6208570**
LG 650 VS 3 FT	500	1.5	3	376,000	**6208574**
LG 660 VS 3 FT	600	1.5	3	401,700	**6208578**

St Steel /m

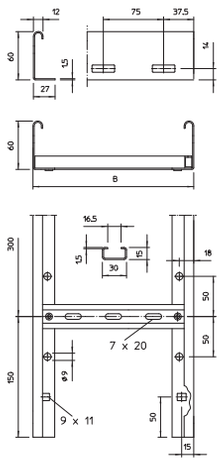
FS Strip-galvanised FT Hot-dip galvanised

The cable ladder is shipped folded up.
You can find the appropriate clamp clip of type 2056 in the Ladder systems section.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

Magnetic shield insulation without cover 10 dB, with cover 15 dB.

Dimensions



Type	Length mm	Width mm	Rail thickness mm	Useful cross-section cm²	Rung spacing mm
LG 620 VS 3 FS	3000	200	1.5	98	300
LG 630 VS 3 FS	3000	300	1.5	148	300
LG 640 VS 3 FS	3000	400	1.5	198	300
LG 650 VS 3 FS	3000	500	1.5	248	300
LG 660 VS 3 FS	3000	600	1.5	298	300

Always indicate the item number when ordering.

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Light-duty vertical cable ladder, 6.000 mm

Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
LG 620 VS 6 FS	200	1.5	6	273,800	**6208627**
LG 630 VS 6 FS	300	1.5	6	298,000	**6208630**
LG 640 VS 6 FS	400	1.5	6	322,200	**6208633**
LG 650 VS 6 FS	500	1.5	6	346,300	**6208636**
LG 660 VS 6 FS	600	1.5	6	370,500	**6208639**
LG 620 VS 6 FT	200	1.5	6	290,000	**6208650**
LG 630 VS 6 FT	300	1.5	6	315,800	**6208653**
LG 640 VS 6 FT	400	1.5	6	334,200	**6208656**
LG 650 VS 6 FT	500	1.5	6	367,500	**6208659**
LG 660 VS 6 FT	600	1.5	6	393,300	**6208661**

St Steel /m

FS Strip-galvanised FT Hot-dip galvanised



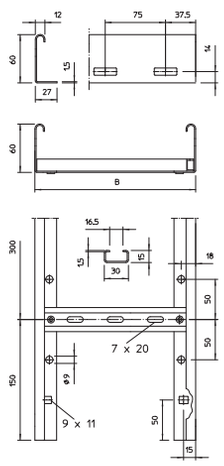
The cable ladder is shipped folded up.
You can find the appropriate clamp clip of type 2056 in the Ladder systems section.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

Magnetic shield insulation without cover 10 dB, with cover 15 dB.

Dimensions

Type	Length mm	Width mm	Rail thickness mm	Useful cross-section cm²	Rung spacing mm
LG 620 VS 6 FS	6000	200	1.5	98	300
LG 630 VS 6 FS	6000	300	1.5	148	300
LG 640 VS 6 FS	6000	400	1.5	198	300
LG 650 VS 6 FS	6000	500	1.5	248	300
LG 660 VS 6 FS	6000	600	1.5	298	300



Always indicate the item number when ordering.

Medium-duty vertical cable ladder SLL, 6.000 mm



Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SLL 620 CPS 4 FS	200	1.5	6	273,000	**6010620**
SLL 630 CPS 4 FS	300	1.5	6	299,500	**6010622**
SLL 640 CPS 4 FS	400	1.5	6	325,800	**6010624**
SLL 650 CPS 4 FS	500	1.5	6	352,300	**6010626**
SLL 660 CPS 4 FS	600	1.5	6	378,800	**6010628**
SLL 620 CPS 4 FT	200	1.5	6	286,300	**6010630**
SLL 630 CPS 4 FT	300	1.5	6	314,000	**6010632**
SLL 640 CPS 4 FT	400	1.5	6	341,700	**6010634**
SLL 650 CPS 4 FT	500	1.5	6	369,200	**6010636**
SLL 660 CPS 4 FT	600	1.5	6	396,800	**6010638**

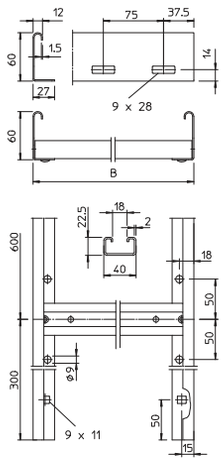
St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

Fastening takes place directly on the wall or using the wall brackets, type WB 30/75. The slot dimension of the rung is 18 mm and the appropriate U clamp is type 2056U.

Vertical ladder with a side height of 60 mm with riveted C profile rungs, open in upwards direction. Standard DIN VDE 0100-520 must be considered when routing the cables and wires.

Dimensions



Type	Length mm	Width mm	Side height mm	Rail thickness mm	Useful cross-section cm^2	Rung spacing mm
SLL 620 CPS 4 FS	6000	200	60	1.5	76	600
SLL 630 CPS 4 FS	6000	300	60	1.5	114	600
SLL 640 CPS 4 FS	6000	400	60	1.5	152	600
SLL 650 CPS 4 FS	6000	500	60	1.5	190	600
SLL 660 CPS 4 FS	6000	600	60	1.5	228	600

Always indicate the item number when ordering.

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Medium-duty vertical cable ladder SLG, 6.000 mm

Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SLG 620 NS 6 FT	200	2	6	335,800	**6207991**
SLG 630 NS 6 FT	300	2	6	351,200	**6207993**
SLG 640 NS 6 FT	400	2	6	366,200	**6207995**
SLG 650 NS 6 FT	500	2	6	393,300	**6207997**
SLG 660 NS 6 FT	600	2	6	410,700	**6207999**

St Steel /m

FT Hot-dip galvanised

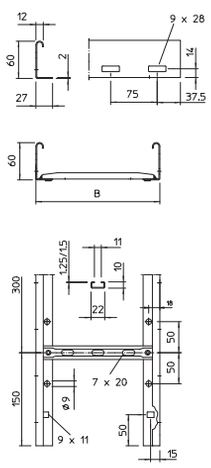
Cable ladder with 60 mm side height with riveted C profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamp, type LKS 40. The slot dimension of the frame is 11 mm and the appropriate U clamp is type 2056/N.

Magnetic shield insulation without cover 10 dB, with cover 15 dB.



Dimensions

Type	Length mm	Width mm	Side height mm	Rail thickness mm	Useful cross-section cm²	Rung spacing mm
SLG 620 NS 6 FT	6000	200	60	2	98	300
SLG 630 NS 6 FT	6000	300	60	2	148	300
SLG 640 NS 6 FT	6000	400	60	2	198	300
SLG 650 NS 6 FT	6000	500	60	2	248	300
SLG 660 NS 6 FT	6000	600	60	2	298	300

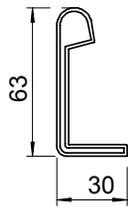


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Always indicate the item number when ordering.

End cap





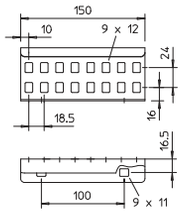
Type	Colour	Pack. pair	Weight kg/100 pairs	Item No.
SKH 60 OR	Pastel orange	40	1,100	**6222537**

PE Polyethylene /pair

End cap to cover cable ladder ends of side height 60 mm.

Straight connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LVG 60 FS	60	10	22,000	**6208840**
LVG 60 FT	60	10	23,000	**6208843**

St Steel /pc.

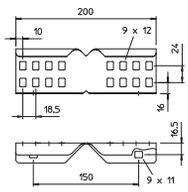
FS Strip-galvanised FT Hot-dip galvanised

The bolt fastening ensures the continuity of the equipotential bonding.

Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

Straight and angle connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LWVG 60 FS	60	10	24,000	**6208895**
LWVG 60 VA4301	60	10	24,000	**6208898**

St Steel V2A Stainless steel, grade 304 /pc.

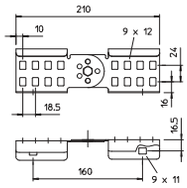
FS Strip-galvanised

The bolt fastening ensures the continuity of the equipotential bonding.

Angle connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

Adjustable connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LGVG 60 FS	60	10	27,000	**6208941**
LGVG 60 FT	60	10	29,000	**6208944**

St Steel /pc.

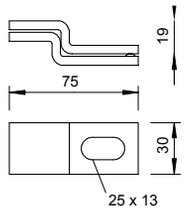
FS Strip-galvanised FT Hot-dip galvanised

The bolt fastening ensures the continuity of the equipotential bonding.

Adjustable connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation. Angle can be adjusted vertically.

Wall bracket





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
WB 30 75 FT	10	20,000	**6019617**

St Steel /pc.

FT Hot-dip galvanised

Wall bracket for fastening vertical ladders to concrete walls and masonry.

Always indicate the item number when ordering.

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Cover for stand-off mounting

Type	Width mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRL FAM 230 FT	230	1.5	3000	3	323,600	**6051222**
DRL FAM 330 FT	330	1.5	3000	3	450,800	**6051224**
DRL FAM 430 FT	430	1.5	3000	3	577,930	**6051226**
DRL FAM 530 FT	530	1.5	3000	3	705,130	**6051228**
DRL FAM 630 FT	630	1.5	3000	3	832,270	**6051230**

St Steel /m

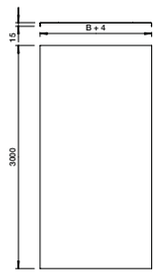
FT Hot-dip galvanised



Spacers to be ordered separately. 6065475 for cable trays and ladders, 6065477 for the wide-span systems.

Cover for stand-off mounting.

When using covers outdoors, additional measures against the influence of wind must be taken. Cover clamps or- turn buckles on their own are not sufficient securing elements against wind loads.

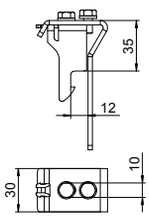


Spacer

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
AH 35 VA4301	35	8	14,100	**6065475**

V2A Stainless steel, grade 304 /pc.

Spacers for stand-off cover mounting on cable trays and cable ladders. Space height 35 mm, stainless steel 1.4301.



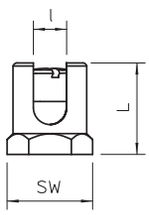


Earthing terminal

Type	Cross–section mm²	SW mm	Thread	Accessories	Pack. pcs	Weight kg/100 pcs.	Item No.
EKL 25 M8	25	21	M8	With screw M8 x 10	50	3,970	**6404001**

CuZn Brass /100 pc.

Earthing screw for fastening the equipotential bonding wire to the cable support system.



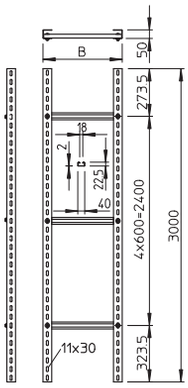


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Always indicate the item number when ordering.

Heavy-duty vertical cable ladder, 3.000 mm





Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SLM 50 C40 2 FT	200	2.5	3	580,000	**6010466**
SLM 50 C40 3 FT	300	2.5	3	615,000	**6010474**
SLM 50 C40 4 FT	400	2.5	3	640,000	**6010482**
SLM 50 C40 5 FT	500	2.5	3	675,000	**6010490**
SLM 50 C40 6 FT	600	2.5	3	695,000	**6010504**
SLM 50 C40 7 FT	700	2.5	3	720,000	**6010512**
SLM 50 C40 8 FT	800	2.5	3	750,000	**6010520**
SLM 50 C40 9 FT	900	2.5	3	775,000	**6010539**
SLM 50 C40 10 FT	1000	2.5	3	805,000	**6010547**
SLM 50 C40 11 FT	1100	2.5	3	835,000	**6010555**
SLM 50 C40 12 FT	1200	2.5	3	860,000	**6010563**

St Steel /m

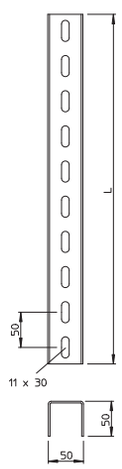
FT Hot-dip galvanised

The vertical ladder is shipped in an unmounted state.
The appropriate clamp clip is type 2056U.

Vertical ladder with a side height of 50 mm with riveted C profile rungs, open in upwards direction.
Standard DIN VDE 0100-520 must be considered when routing the cables and wires.

US 5 support





Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 20 FT	200	2.5	1	51,000	**6340881**
US 5 30 FT	300	2.5	1	79,000	**6340903**
US 5 40 FT	400	2.5	1	106,000	**6340911**
US 5 50 FT	500	2.5	1	133,000	**6340938**
US 5 60 FT	600	2.5	1	160,000	**6340946**
US 5 70 FT	700	2.5	1	175,000	**6340950**
US 5 80 FT	800	2.5	1	200,000	**6340954**
US 5 90 FT	900	2.5	1	227,000	**6340958**
US 5 100 FT	1000	2.5	1	265,000	**6340962**
US 5 150 FT	1500	2.5	1	395,000	**6340966**
US 5 200 FT	2000	2.5	1	506,000	**6340970**
US 5 300 FT	3000	2.5	1	795,000	**6340989**
US 5 600 FT	6000	2.5	1	1.578,000	**6340997**

St Steel /pc.

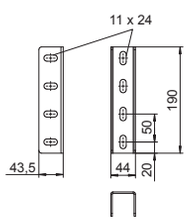
FT Hot-dip galvanised

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.

U support in fixed lengths. Dimensions 50 x 50 mm.

U support connector





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VUS 5 FT	10	44,000	**6018505**

St Steel /pc.

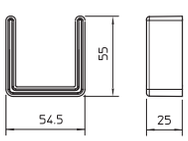
FT Hot-dip galvanised

Including appropriate fastening material.

U support connector to connect US 5 supports.

End cap





Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 KS OR	Pastel orange	20	1,300	**6338462**

PE Polyethylene /pc.

End cap to cover the ends of US 5 supports.

Always indicate the item number when ordering.

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US 3 support

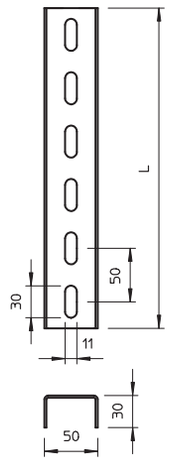
Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 3 600 FT	6000	2	1	834,000	**6342450**

St Steel /pc.

FT Hot-dip galvanised

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

U support in fixed lengths. Dimensions 30 x 50 mm.





U support connector

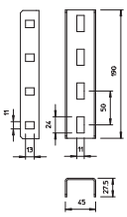
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VUS 3 FT	10	48,000	**6018513**

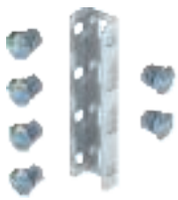
St Steel /pc.

FT Hot-dip galvanised

Including appropriate fastening material.

U support connector to connect US 3 supports.



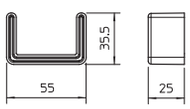


End cap

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
US 3 KS OR	Pastel orange	20	1,070	**6338458**

PE Polyethylene /pc.

End cap to cover the ends of US 3 supports.

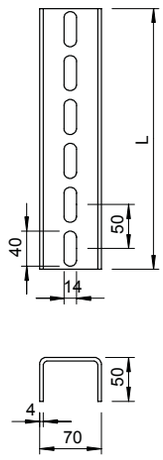




Always indicate the item number when ordering.

US 7 support





Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 7 20 FT	200	4	1	81,000	**6340016**
US 7 30 FT	300	4	1	121,000	**6340032**
US 7 40 FT	400	4	1	161,000	**6340059**
US 7 50 FT	500	4	1	202,000	**6340075**
US 7 60 FT	600	4	1	242,000	**6340091**
US 7 70 FT	700	4	1	283,000	**6340113**
US 7 80 FT	800	4	1	323,000	**6340148**
US 7 90 FT	900	4	1	363,000	**6340164**
US 7 100 FT	1000	4	1	404,000	**6340180**
US 7 110 FT	1100	4	1	444,000	**6340199**
US 7 120 FT	1200	4	1	484,000	**6340202**
US 7 130 FT	1300	4	1	525,000	**6340210**
US 7 140 FT	1400	4	1	565,000	**6340229**
US 7 150 FT	1500	4	1	606,000	**6340237**
US 7 160 FT	1600	4	1	646,000	**6340245**
US 7 170 FT	1700	4	1	686,000	**6340253**
US 7 180 FT	1800	4	1	727,000	**6340261**
US 7 190 FT	1900	4	1	767,000	**6340288**
US 7 200 FT	2000	4	1	807,000	**6340296**
US 7 300 FT	3000	4	1	1.211,000	**6340377**
US 7 400 FT	4000	4	1	1.615,000	**6340393**
US 7 600 FT	6000	4	1	2.422,000	**6340318**

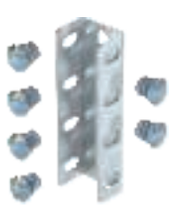
St Steel /pc.

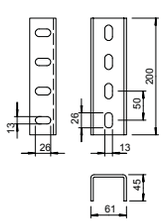
FT Hot-dip galvanised

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

U support in fixed lengths. Dimensions 70 x 50 mm.

U support connector





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VUS 7 FT	10	114,000	**6018378**

St Steel /pc.

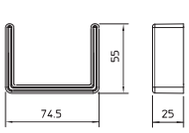
FT Hot-dip galvanised

Including appropriate fastening material.

U support connector to connect US 7 supports.

End cap





Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
US 7 KS OR	Pastel orange	20	1,800	**6338497**

PE Polyethylene /pc.

End cap to cover the ends of US 7 supports.

Always indicate the item number when ordering.

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Rung MS4022

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MS4022P0192FT	192	10	31,800	**6007201**
MS4022P0292FT	292	10	44,700	**6007228**
MS4022P0392FT	392	10	60,100	**6007236**
MS4022P0492FT	492	10	81,500	**6007244**
MS4022P0592FT	592	10	96,000	**6007252**
MS4022P0692FT	692	10	113,000	**6007260**
MS4022P0792FT	792	10	130,000	**6007279**
MS4022P0892FT	892	10	145,000	**6007287**
MS4022P0992FT	992	10	162,000	**6007295**
MS4022P1092FT	1092	10	178,000	**6007309**
MS4022P1192FT	1192	10	197,500	**6007317**

/pc.

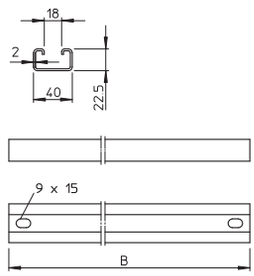
St Steel

FT Hot-dip galvanised

Maximum rung load 175 kg - The appropriate U clamp is type 2056U.

MS4022 rung for use in heavy-duty vertical ladders.





Truss-head bolt with nut and washer

Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRS 8X25 F	M8 x 25	25	8	20	50	2,300	**6406998**
FRS 8X16 F 8.8	M8 x 16	16	8	20	50	2,200	**6406963**

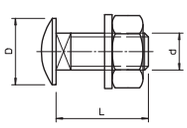
/100 pc.

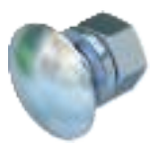
St Steel

F Hot-dip galvanised

The truss-head bolt can be used in combination with hot-dip and double-dip galvanised articles.

Truss-head bolt with square neck. With washer and hexagonal nut.





Large washer

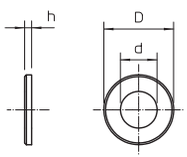
Type	Thread	Dim. d mm	Dimension D mm	Dim. h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN440 9 F	M8	9	28	3	100	1,344	**6408710**

/100 pc.

St Steel

F Hot-dip galvanised

Washer of particularly large outer diameter.





Always indicate the item number when ordering.

Industrial vertical cable ladder C40



Type	Width mm	Pack. m	Weight kg/100 m	Item No.
SLS 80 C40 2 FT	200	6	1.278,000	**6013384**
SLS 80 C40 3 FT	300	6	1.305,000	**6013392**
SLS 80 C40 4 FT	400	6	1.315,000	**6013406**
SLS 80 C40 5 FT	500	6	1.340,000	**6013414**
SLS 80 C40 6 FT	600	6	1.365,000	**6013422**
SLS 80 C40 7 FT	700	6	1.390,000	**6013430**
SLS 80 C40 8 FT	800	6	1.350,000	**6013449**
SLS 80 C40 9 FT	900	6	1.385,000	**6013457**
SLS 80 C40 10 FT	1000	6	1.410,000	**6013465**
SLS 80 C40 11 FT	1100	6	1.435,000	**6013473**
SLS 80 C40 12 FT	1200	6	1.460,000	**6013481**

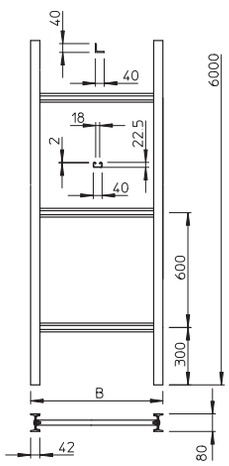
St Steel /m

FT Hot-dip galvanised

The vertical ladder is shipped in an unmounted state.
The appropriate U clamp is type 2056U.

Vertical ladder of side height 80 mm with screwed-in rungs. Standard DIN VDE 0100-520 must be considered when routing the cables and wires.

Dimensions



Type	Length mm	Width mm	Side height mm	Rung spacing mm
SLS 80 C40 2 FT	6000	200	80	600
SLS 80 C40 3 FT	6000	300	80	600
SLS 80 C40 4 FT	6000	400	80	600
SLS 80 C40 5 FT	6000	500	80	600
SLS 80 C40 6 FT	6000	600	80	600
SLS 80 C40 7 FT	6000	700	80	600
SLS 80 C40 8 FT	6000	800	80	600
SLS 80 C40 9 FT	6000	900	80	600
SLS 80 C40 10 FT	6000	1000	80	600
SLS 80 C40 11 FT	6000	1100	80	600
SLS 80 C40 12 FT	6000	1200	80	600

Always indicate the item number when ordering.

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Industrial vertical cable ladder W40

Type	Width mm	Pack. m	Weight kg/100 m	Item No.
SLS 80 W40 4 FT	400	6	1.295,000	6013848
SLS 80 W40 5 FT	500	6	1.335,000	6013856
SLS 80 W40 6 FT	600	6	1.380,000	6013864
SLS 80 W40 7 FT	700	6	1.420,000	6013872
SLS 80 W40 8 FT	800	6	1.460,000	6013880
SLS 80 W40 9 FT	900	6	1.500,000	6013899
SLS 80 W40 10 FT	1000	6	1.545,000	6013902

St Steel /m

FT Hot-dip galvanised

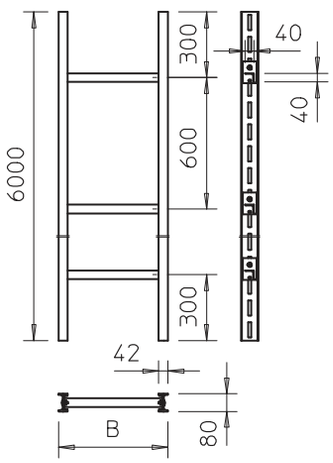
The vertical ladder is shipped in an unmounted state.
The appropriate U clamp is type 2056W.

Vertical ladder of side height 80 mm with screwed-in rungs. Standard DIN VDE 0100-520 must be considered when routing the cables and wires.



Dimensions

Type	Length mm	Width mm	Side height mm	Rung spacing mm
SLS 80 W40 4 FT	6000	400	80	600
SLS 80 W40 5 FT	6000	500	80	600
SLS 80 W40 6 FT	6000	600	80	600
SLS 80 W40 7 FT	6000	700	80	600
SLS 80 W40 8 FT	6000	800	80	600
SLS 80 W40 9 FT	6000	900	80	600
SLS 80 W40 10 FT	6000	1000	80	600

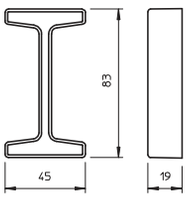


End cap

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
IS 8 KS OR	Pastel orange	20	0,800	6338519

PE Polyethylene /pc.

End cap to cover the ends of IS 8 supports.





I support connector

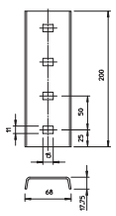
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VIS 8 FT	10	87,000	6018300

St Steel /pc.

FT Hot-dip galvanised

Including appropriate fastening material.

I support connector to connect IS 8 supports.





Support claw

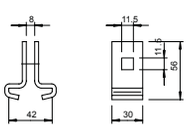
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TGK 30 42 FT	10	17,000	6018963

St Steel /pc.

FT Hot-dip galvanised

The support claw can also be used in conjunction with the heavy-duty ladder, type SLS 80.

Support claw with truss-head bolt, type FRS M10 x 25 for mounting on the IS 8 support.

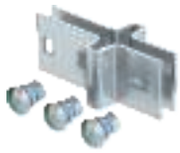


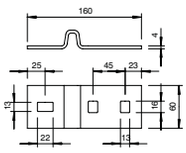


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Always indicate the item number when ordering.

Support strap





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
AHIS 8 FT	10	89,000	**6019064**

St Steel /pc.

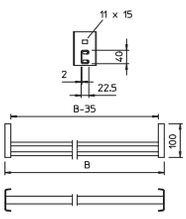
FT Hot-dip galvanised

Including appropriate fastening material.

Support strap for right-angled connection of I supports.

Rung CK 40





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
CK 40 20 FT	154	1	62,300	**6008224**
CK 40 30 FT	254	1	95,500	**6008232**
CK 40 40 FT	354	1	95,500	**6008240**
CK 40 50 FT	454	1	112,000	**6008259**
CK 40 60 FT	554	1	128,600	**6008267**
CK 40 70 FT	654	1	145,200	**6008275**
CK 40 80 FT	754	1	162,000	**6008283**
CK 40 90 FT	854	1	178,400	**6008291**
CK 40 100 FT	954	1	194,900	**6008305**
CK 40 110 FT	1054	1	211,500	**6008313**
CK 40 120 FT	1154	1	228,000	**6008321**

St Steel /pc.

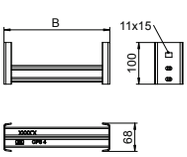
FT Hot-dip galvanised

Maximum rung load 175 kg.

CK40 rung for use in heavy-duty vertical ladders and in IS 8 supports.

Rung CKD 40





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
CKD 40 60 FT	554	1	211,000	**6008269**
CKD 40 70 FT	654	1	243,000	**6008277**
CKD 40 80 FT	754	1	275,000	**6008285**
CKD 40 90 FT	854	1	307,000	**6008293**

St Steel /pc.

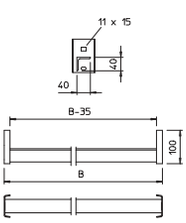
FT Hot-dip galvanised

Maximum rung load 175 kg.

CKD40 rung for use in heavy-duty vertical ladders and in IS 8 supports.

Rung WSK 40





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WSK 40 40 FT	354	1	122,000	**6008046**
WSK 40 50 FT	454	1	147,000	**6008054**
WSK 40 60 FT	554	1	172,000	**6008062**
WSK 40 70 FT	654	1	197,000	**6008070**
WSK 40 80 FT	754	1	222,000	**6008089**
WSK 40 90 FT	854	1	245,000	**6008097**
WSK 40 100 FT	954	1	272,000	**6008100**

St Steel /pc.

FT Hot-dip galvanised

Maximum rung load 250 kg.

Angle profile rungs for use in heavy-duty vertical ladders and in IS 8 supports.

Always indicate the item number when ordering.

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Rung seat

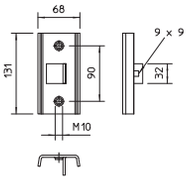
Type	Pack. pair	Weight kg/100 pairs	Item No.
SA CPS 4 FT	5	84,000	**6007496**

St Steel /pair

FT Hot-dip galvanised

The set consists of two rung seats, two hexagonal bolts M8 x 16 mm and four hexagonal bolts M10 x 25 mm.

Rung seat for fastening rungs of type CPS 4 to IS 8 supports.





Rung seat

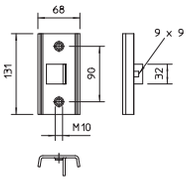
Type	Pack. pair	Weight kg/100 pairs	Item No.
SAA CPS 4 FT	5	82,600	**6007498**

St Steel /pair

FT Hot-dip galvanised

The set consists of two head plates, two truss-head bolts M8 x 16 mm and four hexagonal bolts with coned point M10 x 30 mm.

Rung seat for fastening rungs of type CPS 4 in steel girders.





Rung seat

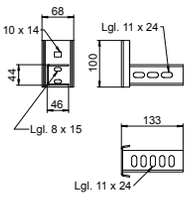
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
SA US5 FT SO	5	47,000	**7194115**

St Steel /pc.

FT SO Hot-dip galvanised 85 µm

The set consists of two rung seats, two hexagonal bolts M8 x 16 mm and four hexagonal bolts M10 x 25 mm.

Rung seat for fastening rungs of type US 5 to IS 8 supports.





Rung seat

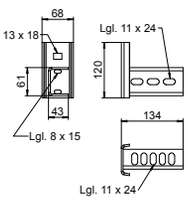
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
SA US7 FT SO	5	77,000	**7194117**

St Steel /pc.

FT SO Hot-dip galvanised 85 µm

The set consists of two rung seats, two hexagonal bolts M8 x 16 mm and four hexagonal bolts M10 x 25 mm.

Rung seat for fastening rungs of type US 7 to IS 8 supports.

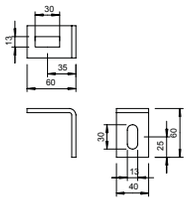




Always indicate the item number when ordering.

Mounting angle





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
BW 60 40 FT	10	22,000	**6019560**

St Steel /pc.

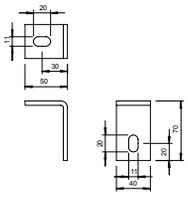
FT Hot-dip galvanised

Including truss-head bolt M12 x 25.

Mounting angle of limb dimension 60 x 60 mm.

Mounting angle





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
BW 70 40 FT	10	22,000	**6019706**

St Steel /pc.

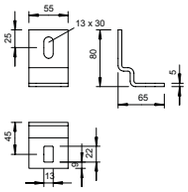
FT Hot-dip galvanised

Including truss-head bolt M10 x 25.

Mounting angle of limb dimension 70 x 50 mm.

Mounting angle





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
BW 80 55 FT	10	26,400	**6019528**

St Steel /pc.

FT Hot-dip galvanised

The mounting angle can also be used in conjunction with the heavy-duty vertical ladder, type SLS 80.

Including fastening bolt M12 x 30.

Mounting angle for mounting IS 8 supports on the wall.

Always indicate the item number when ordering.

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U clamp (BBS clamp)

Type	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2056N 12 FT	8 - 12	100	2,500	**1163124**
2056N 16 FT	12 - 16	100	2,750	**1163167**
2056N 22 FT	16 - 22	100	3,100	**1163221**
2056N 28 FT	22 - 28	100	4,600	**1163280**
2056N 34 FT	28 - 34	100	5,900	**1163345**
2056N 40 FT	34 - 40	100	6,300	**1163396**
2056N 46 FT	40 - 46	100	7,650	**1163469**
2056N 52 FT	46 - 52	100	8,750	**1163523**
2056N 58 FT	52 - 58	50	11,000	**1163582**
2056N 64 FT	58 - 64	50	12,100	**1163647**
2056N 70 FT	64 - 70	50	13,550	**1163701**

St Steel /100 pc.

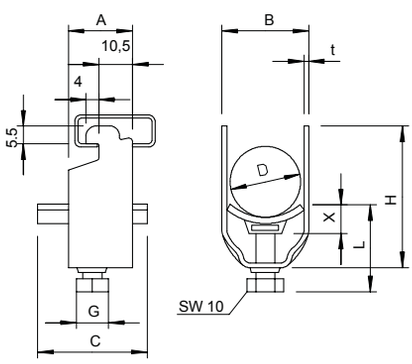
FT Hot-dip galvanised



Suitable for all C profile rails with slot width 11–12 mm; at least 6.5 mm clear internal height and at least 18.5 mm clear internal width.
Clamp and bolt made of hot-dip galvanised steel.
Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Dimensions

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	20	16	34	M6	1.5	5	34	34
12–16	20	20	34	M6	1.5	5	38	34
16–22	20	27	34	M6	1.5	5	44	34
22–28	20	33	34	M6	2	5	51	34
28–34	20	39	34	M8	2	5.5	59	37.5
34–40	20	45	34	M8	2	5.5	66	37.5
40–46	20	51	40	M8	2	5.5	72	37.5
46–52	20	57	40	M8	2	6.5	79	37.5
52–58	23	64	40	M8	2.5	6.5	86	45.5
58–64	23	70	40	M8	2.5	6.5	92	45.5
64–70	23	76	40	M8	2.5	6.5	99	45.5



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Always indicate the item number when ordering.

U clamp (BBS clamp)



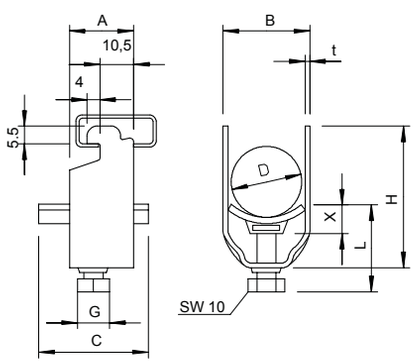
Type	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2056N 2 12 FT	8 - 12	50	3,500	**1164120**
2056N 2 16 FT	12 - 16	50	3,850	**1164163**
2056N 2 22 FT	16 - 22	50	4,650	**1164228**
2056N 2 28 FT	22 - 28	50	7,500	**1164287**
2056N 2 34 FT	28 - 34	50	10,050	**1164341**
2056N 2 40 FT	34 - 40	50	10,050	**1164406**
2056N 2 46 FT	40 - 46	50	11,050	**1164465**
2056N 2 52 FT	46 - 52	50	12,400	**1164511**
2056N 2 58 FT	52 - 58	50	15,600	**1164589**

St Steel /100 pc.

FT Hot-dip galvanised

Suitable for all C profile rails with slot width 11–12 mm; at least 6.5 mm clear internal height and at least 18.5 mm clear internal width.
Clamp and bolt made of hot-dip galvanised steel.
Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Dimensions



D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	20	16	34	M6	1.5	5	49	47
12–16	20	20	34	M6	1.5	5	57	47
16–22	20	27	34	M6	1.5	5	70	59
22–28	20	33	34	M6	2	5	84	47
28–34	20	39	34	M8	2	5.5	97	56.5
34–40	20	45	34	M8	2	5.5	110	56.5
40–46	20	51	40	M8	2	5.5	124	56.5
46–52	20	57	40	M8	2	6.5	137	57.5
52–58	23	64	40	M8	2.5	6.5	150	57.5

Always indicate the item number when ordering.

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U clamp (BBS clamp)

Type	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2056 12 FT	8 - 12	100	3,540	**1160125**
2056 16 FT	12 - 16	100	3,820	**1160168**
2056 22 FT	16 - 22	100	4,508	**1160222**
2056 28 FT	22 - 28	100	6,240	**1160281**
2056 34 FT	28 - 34	100	7,680	**1160346**
2056 40 FT	34 - 40	100	8,260	**1160400**
2056 46 FT	40 - 46	100	10,900	**1160451**
2056 52 FT	46 - 52	100	11,900	**1160524**
2056 58 FT	52 - 58	100	14,300	**1160583**
2056 64 FT	58 - 64	100	15,600	**1160648**
2056 70 FT	64 - 70	50	18,200	**1160702**
2056 76 FT	70 - 76	25	20,600	**1160761**
2056 82 FT	76 - 82	25	22,000	**1160826**
2056 90 FT	82 - 90	25	26,200	**1160907**
2056 100 FT	90 - 100	25	27,800	**1160990**

St Steel /100 pc.

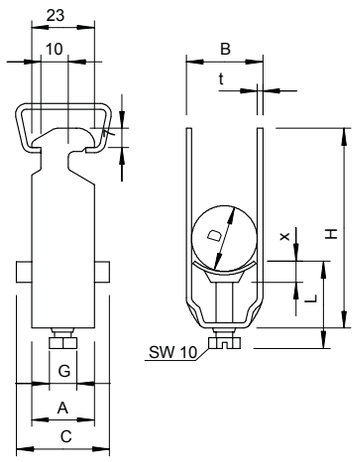
FT Hot-dip galvanised



Suitable for all C profile rails with slot width 16–17 mm.
Hot-dip galvanised steel clamp and bolt, polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Dimensions

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	23	16	34	M6	1.2	5	40	34
12–16	23	20	34	M6	1.5	5	44	34
16–22	23	27	34	M6	1.5	5	50	34
22–28	23	33	34	M6	2	5	58	34
28–34	23	33	34	M8	2	5.5	58	34
34–40	23	45	34	M8	2	5.5	72	37.5
40–46	23	51	40	M8	2	5.5	79	44.5
46–52	23	57	40	M8	2	6	79	44.5
52–58	23	64	40	M8	2.5	6.5	93	45.5
58–64	23	70	40	M8	2.5	6.5	99	45.5
64–70	25	76	40	M8	2.5	6.5	106	45.5
70–76	25	82	40	M8	2.5	6.5	114	45.5
76–82	25	88	40	M8	2.5	6.5	121	45.5
82–90	25	97	40	M8	3	6.5	130	57.5
90–100	25	107	40	M8	3	6.5	140	57.5



Always indicate the item number when ordering.

U clamp (BBS clamp)



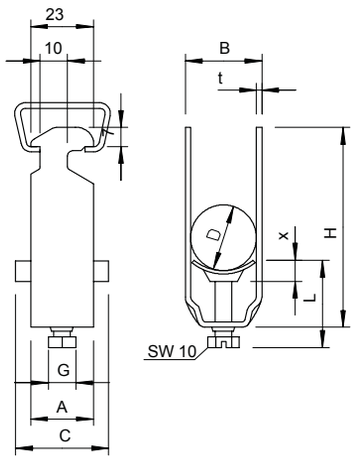
Type	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2056 2 12 FT	8 - 12	50	4,100	**1161121**
2056 2 16 FT	12 - 16	50	4,650	**1161164**
2056 2 22 FT	16 - 22	50	5,150	**1161229**
2056 2 28 FT	22 - 28	50	7,700	**1161288**
2056 2 34 FT	28 - 34	50	10,200	**1161342**
2056 2 40 FT	34 - 40	50	11,450	**1161407**
2056 2 46 FT	40 - 46	50	14,950	**1161466**
2056 2 52 FT	46 - 52	50	16,700	**1161520**
2056 2 58 FT	52 - 58	50	21,400	**1161571**
2056 2 64 FT	58 - 64	50	24,250	**1161644**

St Steel /100 pc.

FT Hot-dip galvanised

Suitable for all C profile rails with slot width 16–17 mm.
Hot-dip galvanised steel clamp and bolt, polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Dimensions



D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	23	16	34	M6	1.5	4.5	52	34
12–16	23	20	34	M6	1.5	4.5	61	34
16–22	23	27	34	M6	1.5	5	73	47
22–28	23	33	34	M6	2	5	87	47
28–34	23	39	34	M8	2	6	101	44.5
34–40	23	45	34	M8	2	6	114	44.5
40–46	23	51	34	M8	2	5.5	129	44.5
46–52	23	57	34	M8	2	6.5	142	45.5
52–58	23	64	34	M8	2.5	6.5	154	45.5
58–64	23	70	40	M8	2.5	6.5	167	45.5

Always indicate the item number when ordering.

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U clamp (BBS clamp)

Type	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2056 3 12 FT	8 - 12	50	4,900	**1162128**
2056 3 16 FT	12 - 16	50	6,200	**1162160**
2056 3 22 FT	16 - 22	50	7,100	**1162225**
2056 3 28 FT	22 - 28	50	10,650	**1162284**
2056 3 34 FT	28 - 34	50	13,100	**1162349**
2056 3 40 FT	34 - 40	50	14,350	**1162403**
2056 3 46 FT	40 - 46	25	19,800	**1162462**

St Steel /100 pc.

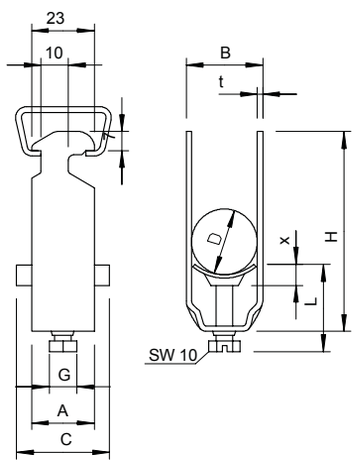
FT Hot-dip galvanised

Suitable for all C profile rails with slot width 16–17 mm.
Hot-dip galvanised steel clamp and bolt, polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.



Dimensions

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	23	16	34	M6	1.5	5	70	47
12–16	23	20	34	M6	1.5	5	82	47
16–22	23	27	34	M6	1.5	5	101	47
22–28	23	33	34	M6	2	5	121	47
28–34	23	39	34	M8	2	6	142	56.5
34–40	23	45	34	M8	2	6	162	56.5
40–46	23	51	40	M8	2	6	184	56.5



Always indicate the item number when ordering.

U clamp (BBS clamp)

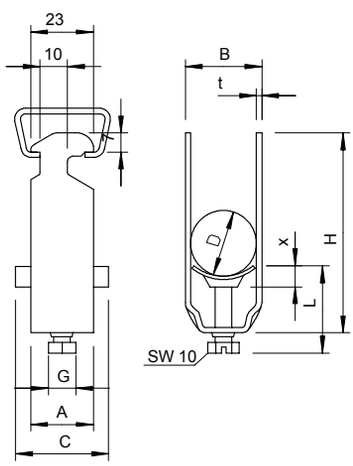


Type	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2056 12 ALU	8 - 12	100	0,750	**1183206**
2056 16 ALU	12 - 16	100	0,900	**1183214**
2056 22 ALU	16 - 22	100	1,050	**1183222**
2056 28 ALU	22 - 28	100	1,500	**1183230**
2056 34 ALU	28 - 34	100	2,300	**1183249**
2056 40 ALU	34 - 40	100	2,700	**1183257**
2056 46 ALU	40 - 46	100	3,600	**1183265**
2056 52 ALU	46 - 52	100	3,900	**1183273**
2056 58 ALU	52 - 58	50	4,200	**1183281**
2056 64 ALU	58 - 64	50	4,500	**1183303**
2056 70 ALU	64 - 70	50	5,400	**1183311**
2056 76 ALU	70 - 76	25	5,850	**1183338**

Alu Aluminium /100 pc.

Suitable for all C profile rails with 16–17 mm slot width; aluminium ALMg 3 clamp and bolt, polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Dimensions



D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	23	16	34	M6	1.5	5	40	34
12–16	23	20	34	M6	1.5	5	44	34
16–22	23	27	34	M6	1.5	5	50	34
22–28	23	33	34	M6	2	5	58	34
28–34	23	33	34	M8	2	5.5	58	34
34–40	23	45	34	M8	2	5.5	72	37.5
40–46	23	51	40	M8	2	5.5	79	44.5
46–52	23	57	40	M8	2	6	79	44.5
52–58	23	64	40	M8	2.5	6.5	93	45.5
58–64	23	70	40	M8	2.5	6.5	99	45.5
64–70	25	76	40	M8	2.5	6.5	106	45.5
70–76	25	82	40	M8	2.5	6.5	114	45.5

Always indicate the item number when ordering.

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U clamp (BBS clamp)

Type	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2056 2 12 ALU	8 - 12	50	1,000	**1183389**
2056 2 16 ALU	12 - 16	50	1,250	**1183397**
2056 2 22 ALU	16 - 22	50	1,500	**1183400**
2056 2 28 ALU	22 - 28	50	2,000	**1183419**
2056 2 34 ALU	28 - 34	50	3,200	**1183427**
2056 2 40 ALU	34 - 40	50	3,750	**1183435**
2056 2 46 ALU	40 - 46	50	4,850	**1183443**
2056 2 52 ALU	46 - 52	50	5,300	**1183451**
2056 2 58 ALU	52 - 58	50	6,000	**1183478**

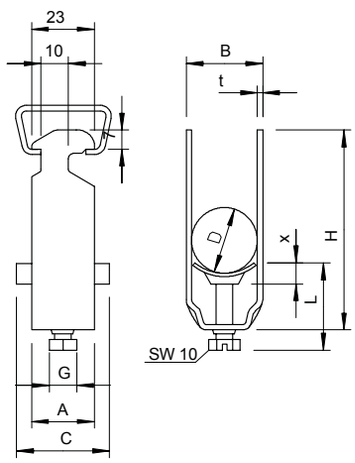
Alu Aluminium /100 pc.

Suitable for all C profile rails with 16–17 mm slot width; aluminium ALMg 3 clamp and bolt, polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.



Dimensions

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	23	16	34	M6	1.5	4.5	52	34
12–16	23	20	34	M6	1.5	4.5	61	34
16–22	23	27	34	M6	1.5	5	73	47
22–28	23	33	34	M6	2	5	87	47
28–34	23	39	34	M8	2	6	101	44.5
34–40	23	45	34	M8	2	6	114	44.5
40–46	23	51	34	M8	2	5.5	129	44.5
46–52	23	57	34	M8	2	6.5	142	45.5
52–58	23	64	34	M8	2.5	6.5	154	45.5



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Always indicate the item number when ordering.

U clamp (BBS clamp)



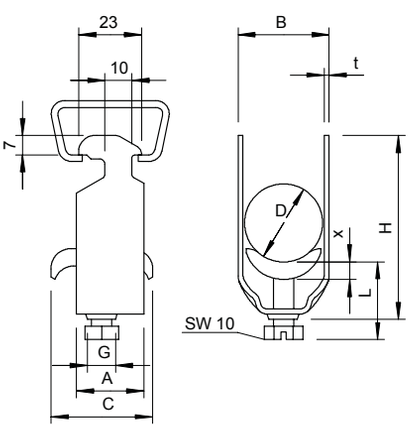
Type	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2056 M 12 FT	8 - 12	100	3,200	**1156004**
2056 M 16 FT	12 - 16	100	3,500	**1156012**
2056 M 22 FT	16 - 22	100	4,400	**1156020**
2056 M 28 FT	22 - 28	100	6,100	**1156039**
2056 M 34 FT	28 - 34	100	7,700	**1156047**
2056 M 40 FT	34 - 40	100	8,600	**1156055**
2056 M 46 FT	40 - 46	100	9,600	**1156063**
2056 M 52 FT	46 - 52	100	10,400	**1156071**
2056 M 58 FT	52 - 58	100	13,100	**1156098**
2056 M 64 FT	58 - 64	100	14,500	**1156101**
2056 M 70 FT	64 - 70	50	16,100	**1156128**
2056 M 76 FT	70 - 76	25	18,300	**1156136**
2056 M 82 FT	76 - 82	25	19,100	**1156144**
2056 M 90 FT	82 - 90	25	23,300	**1156152**
2056 M 100 FT	90 - 100	25	25,400	**1156160**

St Steel /100 pc.

FT Hot-dip galvanised

Suitable for all C profile rails with slot width 16–17 mm.
Clamp, bolt and pressure sleeve made of hot-dip galvanised steel.

Dimensions



D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	23	16	30	M6	1.5	3.5	40	32.5
12–16	23	20	30	M6	1.5	3.5	44	32.5
16–22	23	27	30	M6	1.5	4.5	50	46.5
22–28	23	33	30	M6	2	4.5	58	46.5
28–34	23	39	35	M8	2	5	66	44
34–40	23	45	35	M8	2	5	72	44
40–46	23	51	35	M8	2	5	79	44
46–52	23	57	35	M8	2	5	86	44
52–58	23	64	35	M8	2.5	5	93	44
58–64	23	70	35	M8	2.5	5	99	56
64–70	25	76	35	M8	2.5	5	106	56
70–76	25	82	40	M8	2.5	5	114	56
76–82	25	88	40	M8	2.5	5	121	56
82–90	25	97	40	M8	3	5	130	56
90–100	25	107	40	M8	3	5	140	56

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Always indicate the item number when ordering.

U clamp (BBS clamp)

Type	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2056U 12 FT	8 - 12	100	3,150	**1175122**
2056U 16 FT	12 - 16	100	3,600	**1175165**
2056U 22 FT	16 - 22	100	4,200	**1175211**
2056U 28 FT	22 - 28	100	5,800	**1175289**
2056U 34 FT	28 - 34	100	7,500	**1175343**
2056U 40 FT	34 - 40	100	8,100	**1175408**
2056U 46 FT	40 - 46	100	10,000	**1175467**
2056U 52 FT	46 - 52	100	11,200	**1175521**
2056U 58 FT	52 - 58	100	13,400	**1175580**
2056U 64 FT	58 - 64	100	14,300	**1175645**
2056U 70 FT	64 - 70	50	15,250	**1175696**
2056U 76 FT	70 - 76	25	20,600	**1175769**
2056U 82 FT	76 - 82	25	22,000	**1175823**
2056U 90 FT	82 - 90	25	26,200	**1175904**
2056U 100 FT	90 - 100	25	30,000	**1175998**

St Steel /100 pc.

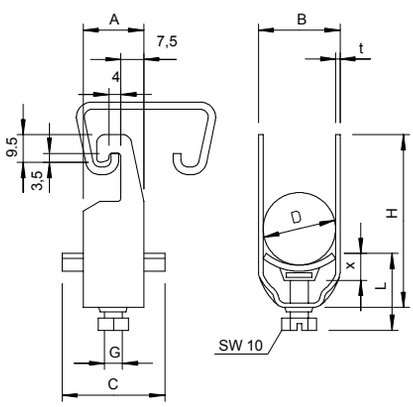
FT Hot-dip galvanised



Suitable for all C profile rails with slot width 18 and 22 mm. Also suitable for flat, angle and U steel of 4 - 12 mm material thickness.
BBS clamp and bolt made of hot-dip galvanised steel. Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Dimensions

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	20	16	34	M6	1.5	5	42	34
12–16	20	20	34	M6	1.5	5	46	34
16–22	20	27	34	M6	1.5	5	53	34
22–28	20	33	34	M6	2	5	59	34
28–34	20	39	34	M8	2	5.5	67	37.5
34–40	20	45	34	M8	2	5.5	73	37.5
40–46	20	51	40	M8	2	5.5	79	37.5
46–52	20	57	40	M8	2	6.5	85	38.5
52–58	23	64	40	M8	2.5	6.5	91	38.5
58–64	23	70	40	M8	2.5	6.5	97	38.5
64–70	23	76	40	M8	2.5	6.5	103	38.5
70–76	25	82	40	M8	2.5	6.5	110	45.5
76–82	25	88	40	M8	2.5	6.5	116	45.5
82–90	25	97	40	M8	3	6.5	125	45.5
90–100	25	107	40	M8	3	6.5	135	45.5



Always indicate the item number when ordering.

U clamp (BBS clamp)



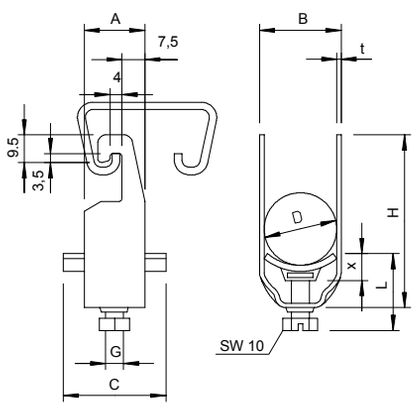
Type	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2056U 2 12 FT	8 - 12	50	2,850	**1176129**
2056U 2 16 FT	12 - 16	50	3,050	**1176161**
2056U 2 22 FT	16 - 22	50	4,950	**1176226**
2056U 2 28 FT	22 - 28	50	6,940	**1176285**
2056U 2 34 FT	28 - 34	50	9,500	**1176331**
2056U 2 40 FT	34 - 40	50	11,350	**1176404**
2056U 2 46 FT	40 - 46	50	11,350	**1176463**
2056U 2 52 FT	46 - 52	50	15,050	**1176528**
2056U 2 58 FT	52 - 58	50	19,800	**1176587**

St Steel /100 pc.

FT Hot-dip galvanised

Suitable for all C profile rails with slot width 18 and 22 mm. Also suitable for flat, angle and U steel of 4 - 12 mm material thickness.
BBS clamp and bolt made of hot-dip galvanised steel. Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Dimensions



D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	20	16	34	M6	1.5	5	56	34
12–16	20	20	34	M6	1.5	5	64	34
16–22	20	27	34	M6	1.5	5	77	47
22–28	20	33	34	M6	2	5	89	47
28–34	20	39	34	M8	2	5.5	103	44.5
34–40	20	45	34	M8	2	5.5	115	44.5
40–46	20	51	40	M8	2	5.5	128	44.5
46–52	20	57	40	M8	2	6.5	140	45.5
52–58	20	64	40	M8	2.5	6.5	152	45.5

Always indicate the item number when ordering.

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U clamp (BBS clamp)

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056U 3 12 FT	8 - 12		50	4,750	**1177125**
2056U 3 16 FT	12 - 16		50	4,850	**1177168**
2056U 3 22 FT	16 - 22		50	6,600	**1177222**
2056U 3 28 FT	22 - 28		50	10,500	**1177281**
2056U 3 34 FT	28 - 34		50	13,250	**1177346**
2056U 3 40 FT	34 - 40		50	14,400	**1177400**
2056U 3 46 FT	40 - 46		50	18,950	**1177451**

St Steel /100 pc.

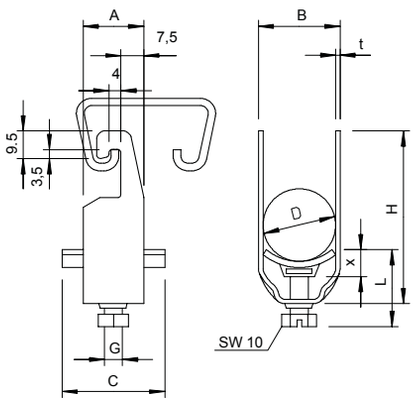
FT Hot-dip galvanised

Suitable for all C profile rails with slot width 18 and 22 mm. Also suitable for flat, angle and U steel of 4 - 12 mm material thickness.
BBS clamp and bolt made of hot-dip galvanised steel. Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.



Dimensions

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	20	16	34	M6	1.5	5	70	47
12–16	20	20	34	M6	1.5	5	82	47
16–22	20	27	34	M6	1.5	5	101	47
22–28	20	33	34	M6	2	5	119	47
28–34	20	39	34	M6	2	5.5	139	44.5
34–40	20	45	34	M8	2	5.5	157	44.5
40–46	20	51	40	M8	2	5.5	177	56.5



Always indicate the item number when ordering.

U clamp (BBS clamp)



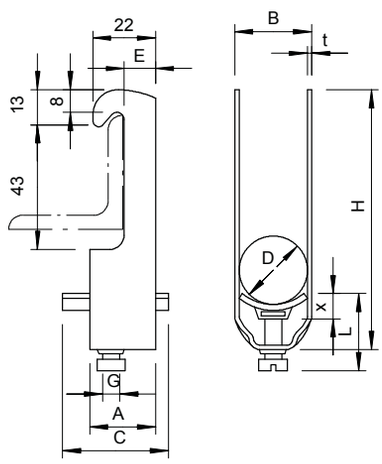
Type	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2056W 12 FT	8 - 12	100	4,450	**1180126**
2056W 16 FT	12 - 16	100	4,890	**1180169**
2056W 22 FT	16 - 22	100	5,700	**1180223**
2056W 28 FT	22 - 28	100	7,800	**1180282**
2056W 34 FT	28 - 34	100	9,400	**1180347**
2056W 40 FT	34 - 40	100	10,000	**1180401**
2056W 46 FT	40 - 46	100	12,800	**1180460**
2056W 58 FT	52 - 58	50	17,100	**1180584**
2056W 64 FT	58 - 64	50	18,600	**1180649**
2056W 52 FT	46 - 52	100	13,600	**1180525**
2056W 70 FT	64 - 70	50	18,500	**1180681**
2056W 76 FT	70 - 76	25	20,600	**1180762**
2056W 82 FT	76 - 82	25	22,000	**1180827**
2056W 90 FT	82 - 90	25	26,200	**1180908**

St Steel /100 pc.

FT Hot-dip galvanised

Suitable for angular steel of 40 mm limb length.
Clamp and bolt made of hot-dip galvanised steel. Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Dimensions



D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	23	16	34	M6	1.5	5	74	27
12–16	23	20	34	M6	1.5	5	78	27
16–22	23	27	34	M6	1.5	5	85	27
22–28	23	33	34	M6	2	5	91	27
28–34	23	39	34	M8	2	5.5	99	31.5
34–40	23	45	34	M8	2	5.5	105	31.5
40–46	25	51	40	M8	2	5.5	111	31.5
52–58	25	64	40	M8	2.5	6.5	123	32.5
58–64	25	70	40	M8	2.5	6.5	130	32.5
46–52	25	57	40	M8	2	6.5	117	32.5
64–70	25	76	40	M8	2.5	6.5	136	32.5
70–76	25	82	40	M8	2.5	6.5	143	38.5
76–82	25	88	40	M8	2.5	6.5	149	38.5
82–90	25	97	40	M8	3	6.5	158	38.5

Always indicate the item number when ordering.

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U clamp (BBS clamp)

Type	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2056W 2 12 FT	8 - 12	50	5,150	**1181122**
2056W 2 16 FT	12 - 16	50	5,700	**1181165**
2056W 2 22 FT	16 - 22	50	7,050	**1181211**
2056W 2 28 FT	22 - 28	50	10,350	**1181289**
2056W 2 34 FT	28 - 34	50	11,600	**1181343**
2056W 2 40 FT	34 - 40	25	12,700	**1181408**
2056W 2 46 FT	40 - 46	25	16,750	**1181467**
2056W 2 52 FT	46 - 52	25	18,200	**1181521**
2056W 2 58 FT	52 - 58	25	23,000	**1181580**

St Steel /100 pc.

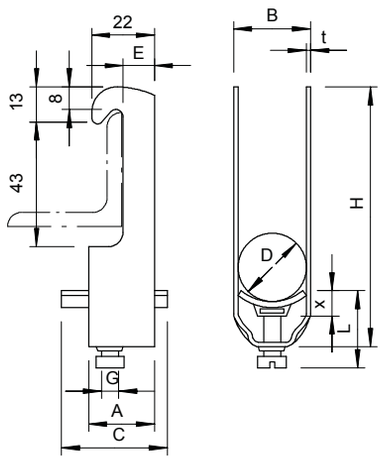
FT Hot-dip galvanised



Suitable for angular steel of 40 mm limb length.
Clamp and bolt made of hot-dip galvanised steel. Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Dimensions

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	23	16	34	M6	1.5	5	88	34
12–16	23	20	34	M6	1.5	5	96	34
16–22	23	27	34	M6	1.5	5	109	34
22–28	23	33	34	M6	2	5	121	34
28–34	23	39	34	M8	2	5.5	135	37.5
34–40	23	45	34	M8	2	5.5	147	37.5
40–46	25	51	40	M8	2	5.5	160	37.5
46–52	25	57	40	M8	2	6.5	172	38.5
52–58	25	64	40	M8	2.5	6.5	185	38.5



Always indicate the item number when ordering.

U clamp (BBS clamp)



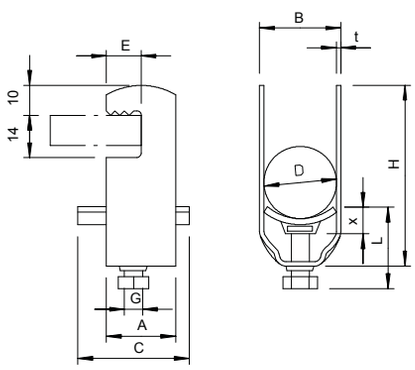
Type	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2056F 12 FT	8 - 12	100	3,700	**1169122**
2056F 16 FT	12 - 16	100	3,900	**1169165**
2056F 22 FT	16 - 22	100	4,500	**1169211**
2056F 28 FT	22 - 28	100	6,000	**1169289**
2056F 34 FT	28 - 34	100	8,000	**1169343**
2056F 40 FT	34 - 40	100	8,500	**1169408**
2056F 46 FT	40 - 46	100	10,600	**1169467**
2056F 52 FT	46 - 52	100	11,700	**1169521**
2056F 58 FT	52 - 58	50	13,050	**1169580**
2056F 64 FT	58 - 64	50	14,800	**1169645**
2056F 70 FT	64 - 70	50	17,700	**1169696**
2056F 76 FT	70 - 76	25	20,600	**1169769**
2056F 82 FT	76 - 82	25	22,000	**1169823**
2056F 90 FT	82 - 90	25	26,200	**1169904**

St Steel /100 pc.

FT Hot-dip galvanised

Suitable for flat, bracket and U irons of 4–12 mm material thickness.
Clamp and bolt made of hot-dip galvanised steel. Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Dimensions



D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	23	16	34	M6	1.5	5	43	34
12–16	23	20	34	M6	1.5	5	47	34
16–22	23	27	34	M6	1.5	5	54	34
22–28	23	33	34	M6	2	5	60	34
28–34	23	39	34	M8	2	5.5	68	37.5
34–40	23	45	34	M8	2	5.5	74	37.5
40–46	25	51	40	M8	2	5.5	80	37.5
46–52	25	57	40	M8	2	6.5	86	38.5
52–58	25	64	40	M8	2.5	6.5	92	38.5
58–64	25	70	40	M8	2.5	6.5	98	38.5
64–70	25	76	40	M8	2.5	6.5	104	38.5
70–76	25	82	40	M8	2.5	6.5	111	45.5
76–82	25	88	40	M8	2.5	6.5	117	45.5
82–90	25	97	40	M8	3	6.5	126	45.5

Always indicate the item number when ordering.

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U clamp (BBS clamp)

Type	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2056F 2 12 FT	8 - 12	50	4,250	**1170120**
2056F 2 16 FT	12 - 16	50	4,550	**1170163**
2056F 2 22 FT	16 - 22	50	5,200	**1170228**
2056F 2 28 FT	22 - 28	50	7,900	**1170287**
2056F 2 34 FT	28 - 34	50	9,900	**1170341**
2056F 2 40 FT	34 - 40	50	11,200	**1170406**
2056F 2 46 FT	40 - 46	50	12,000	**1170465**
2056F 2 52 FT	46 - 52	50	16,600	**1170511**

St Steel /100 pc.

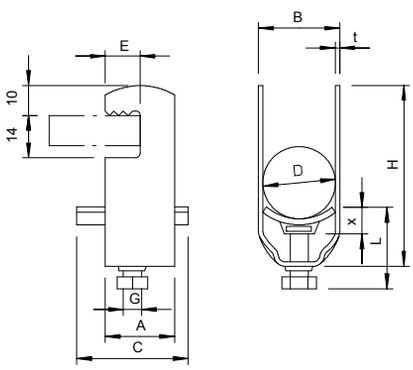
FT Hot-dip galvanised

Suitable for flat, bracket and U irons of 4–12 mm material thickness.
Clamp and bolt made of hot-dip galvanised steel. Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.



Dimensions

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	23	16	34	M6	1.5	4.5	57	25
12–16	23	20	34	M6	1.5	4.5	65	25
16–22	23	27	34	M6	1.5	5	78	38
22–28	23	33	34	M6	2	5	90	47
28–34	23	39	34	M8	2	6	104	33
34–40	23	45	34	M8	2	6	116	33
40–46	25	51	40	M8	2	6	128	33
46–52	25	57	40	M8	2	6.5	140	33

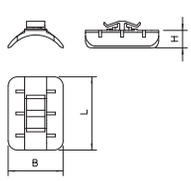


Counter sleeve

Type	Clamping range D mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
2058 12 LGR	8 - 12	2400	100	0,177	**1195123**
2058 16 LGR	12 - 16	1200	100	0,189	**1195166**
2058 22 LGR	16 - 22	1000	100	0,187	**1195220**
2058 28 LGR	22 - 28	1000	100	0,244	**1195271**
2058 34 LGR	28 - 34	1200	100	0,303	**1195344**
2058 40 LGR	34 - 40	1200	100	0,325	**1195409**
2058 46 LGR	40 - 46	1200	100	0,409	**1195468**
2058 52 LGR	46 - 52	1200	100	0,442	**1195522**
2058 58 LGR	52 - 58	1200	100	0,486	**1195581**
2058 64 LGR	58 - 64	500	50	0,540	**1195646**
2058 70 LGR	64 - 70	500	50	0,550	**1195700**

PP Polypropylene /100 pc.

Area of use of rails with slot width 16–17 mm. Counter sleeve is clamped into the slot width as protection between the cable and rail.



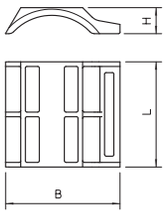


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Always indicate the item number when ordering.

Counter-sleeve, plastic, universal





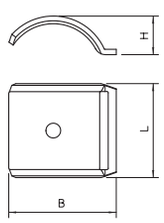
Type	Clamping range D mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
2058FW 12 LGR	8 - 12	2400	100	0,099	**1197126**
2058FW 16 LGR	12 - 16	1200	100	0,130	**1197169**
2058FW 22 LGR	16 - 22	1000	100	0,170	**1197223**
2058FW 28 LGR	22 - 28	1000	100	0,216	**1197282**
2058FW 34 LGR	28 - 34	1200	100	0,280	**1197347**
2058FW 40 LGR	34 - 40	1200	100	0,318	**1197401**
2058FW 46 LGR	40 - 46	1200	100	0,415	**1197460**
2058FW 52 LGR	46 - 52	1200	100	0,425	**1197525**
2058FW 58 LGR	52 - 58	1600	100	0,460	**1197584**
2058FW 64 LGR	58 - 64	600	50	0,525	**1197649**
2058FW 70 LGR	64 - 70	400	50	0,565	**1197703**
2058FW 76 LGR	70 - 76	500	25	0,924	**1197762**
2058FW 82 LGR	76 - 82	500	25	0,998	**1197827**
2058FW 90 LGR	82 - 90	500	25	1,070	**1197908**
2058FW 100 LGR	90 - 100	500	25	1,150	**1197991**

PP Polypropylene /100 pc.

Irrespective of the rail, universally applicable by pushing onto a limb of the U clamp.

Counter sleeve, metal, universal





Type	Clamping range D mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
2058FW M 12 FT	8 - 12	1000	100	0,940	**1199846**
2058FW M 16 FT	12 - 16	1200	100	1,100	**1199854**
2058FW M 22 FT	16 - 22	1200	100	1,200	**1199862**
2058FW M 28 FT	22 - 28	1000	100	1,400	**1199870**
2058FW M 34 FT	28 - 34	400	100	2,160	**1199889**
2058FW M 40 FT	34 - 40	200	100	2,490	**1199897**
2058FW M 46 FT	40 - 46	200	100	3,270	**1199900**
2058FW M 52 FT	46 - 52	200	50	3,460	**1199919**
2058FW M 58 FT	52 - 58	200	50	3,620	**1199927**
2058FW M 64 FT	58 - 64	300	50	4,280	**1199935**
2058FW M 70 FT	64 - 70	200	50	4,590	**1199943**

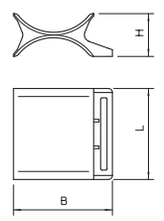
St Steel /100 pc.

FT Hot-dip galvanised

Irrespective of the rail, universally applicable by pushing onto a limb of the U clamp.

Double sleeve, plastic





Type	Clamping range D mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
2058 2 12 LGR	8 - 12	2100	50	0,170	**1196111**
2058 2 16 LGR	12 - 16	1200	50	0,225	**1196162**
2058 2 22 LGR	16 - 22	600	50	0,287	**1196227**
2058 2 28 LGR	22 - 28	500	50	0,382	**1196286**
2058 2 34 LGR	28 - 34	600	50	0,470	**1196340**
2058 2 40 LGR	34 - 40	600	50	0,700	**1196405**
2058 2 46 LGR	40 - 46	600	50	0,886	**1196464**
2058 2 52 LGR	46 - 52	600	50	1,112	**1196529**
2058 2 58 LGR	52 - 58	600	50	1,156	**1196588**

PP Polypropylene /100 pc.

Double sleeve as intermediate layer between two or three cables within a U clamp.

Always indicate the item number when ordering.

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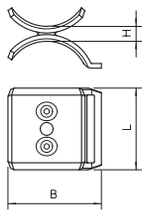
Double sleeve, metal

Type	Clamping range D mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
2058 M2 12 FT	8 - 12	600	100	1,360	**1199706**
2058 M2 16 FT	12 - 16	600	50	1,800	**1199714**
2058 M2 22 FT	16 - 22	500	50	2,300	**1199722**
2058 M2 28 FT	22 - 28	600	50	3,100	**1199730**
2058 M2 34 FT	28 - 34	300	50	3,760	**1199749**
2058 M2 40 FT	34 - 40	100	50	5,600	**1199757**

St Steel /100 pc.

FT Hot-dip galvanised

Double sleeve as intermediate layer between two or three cables within a U clamp.





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Always indicate the item number when ordering.



Luminaire support systems

Always indicate the item number when ordering.

Luminaire support systems



Luminaire support channel 492



Luminaire support tray 500

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Luminaire support channel



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
LTS 50 FS	50	1.5	6	140,000	**6075000**
LTS 50 FT	50	1.5	6	144,100	**6075005**

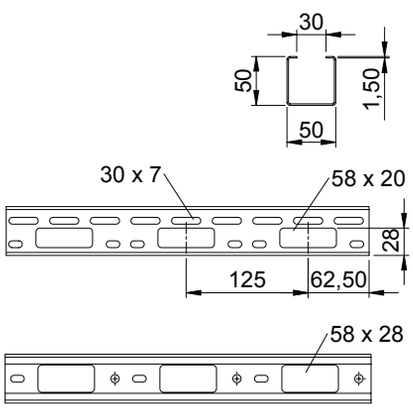
St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

Perforated luminaire support channel for cable routing and luminaire mounting.

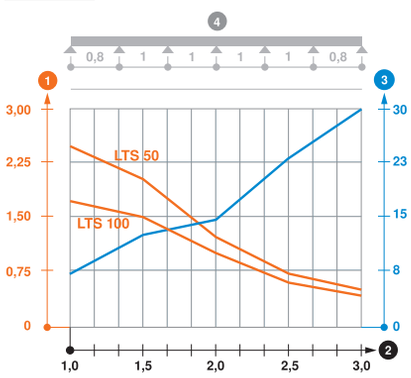
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Width mm	Useful cross-section cm²
LTS 50 FS	6000	50	22

Load



Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
LTS 50 FS	2.5	2	1.2	0.7	0.5

Load diagram, luminaire support rail, type LTS

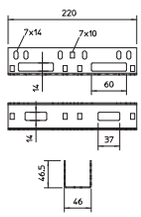
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Straight connector





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VF AZK 50 FS	25	27,100	**6066615**
VF AZK 50 DD	25	27,100	**6066623**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

An adjustable connector can be created using two straight and angle connectors.

Straight connector for connection of luminaire support channels and AZ channels.

Always indicate the item number when ordering.

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Luminaire support channel

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
LTS 100 FS	100	1.5	6	177,000	**6075024**

St Steel /m

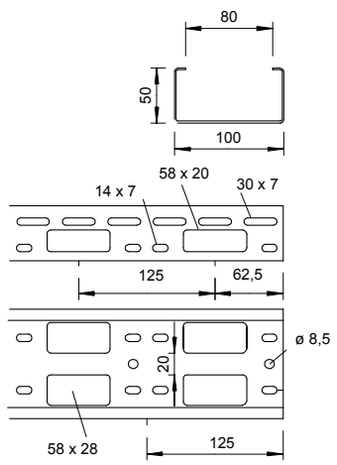
FS Strip-galvanised

Perforated luminaire support channel for cable routing and luminaire mounting.
Magnetic shield insulation without cover 20 dB, with cover 50 dB.



Dimensions

Type	Length mm	Width mm	Useful cross-section cm^2
LTS 100 FS	6000	100	46



Load

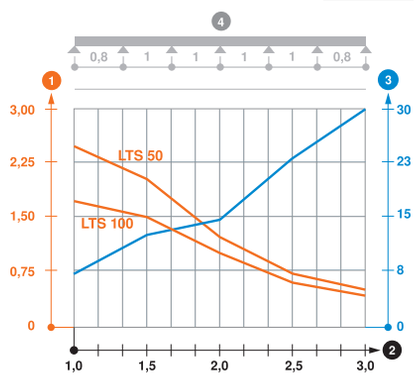
Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
LTS 100 FS	1.7	1.5	1	0.6	0.4

Load diagram, luminaire support rail, type LTS

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width



Cover with turn buckle

Type	Width mm	Length mm	Pack. m	Weight kg/100 m	Item No.
AZDMD 50 FS	53	3000	3	75,000	**6080138**
AZDMD 100 FS	103	3000	3	96,700	**6080227**

St Steel /m

FS Strip-galvanised

Cover with turn buckle for AZ channel.





Always indicate the item number when ordering.

Cover with turn buckle





Type	Width mm	Length mm	Pack. m	Weight kg/100 m	Item No.
AZDMD 50 DD	53	3000	3	58,300	**6080154**
AZDMD 100 DD	103	3000	3	101,700	**6080235**

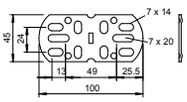
St Steel /m

DD Strip galvanised zinc/aluminium, Double Dip

Cover with turn buckle for AZ channel.

Straight and angle connector





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VF AZK FT	25	7,500	**6066550**

St Steel /pc.

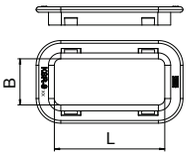
FT Hot-dip galvanised

An adjustable connector can be created using two straight and angle connectors. Scope of delivery including bolts with flange nuts.

Straight and angle connector for connection of AZ channels.

Cable protection ring





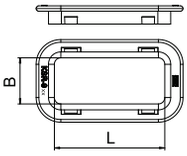
Type	Colour	for perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-910 PE	Light grey	20 x 58	25	0,470	**6066712**

PE Polyethylene /pc.

Cable protection ring for bottom perforation in cable trays of type IKS and for side perforation in AZ channels and luminaire support channel.

Cable protection ring





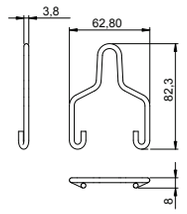
Type	Colour	for perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-915 PE	Light grey	28 x 58	25	0,520	**6066704**

PE Polyethylene /pc.

Cable protection ring for bottom perforations in AZ channels and luminaire support channels.

Suspension bracket





Type	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AHB 50 D4 FT	0.35	50	1,985	**6066505**

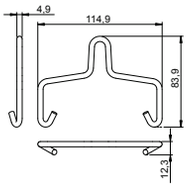
St Steel /100 pc.

F Hot-dip galvanised

Suspension bracket for chain or steel wire tensioning rope fastening of the luminaire support rail, type LTS 50, and the AZ small duct, type AZK 50.

Suspension bracket





Type	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AHB 100 D5 FT	0.6	50	4,060	**6066510**

St Steel /100 pc.

F Hot-dip galvanised

Suspension bracket for chain or steel wire tensioning rope fastening of the luminaire support rail, type LTS 100, and the AZ small duct, type AZK 100.

Always indicate the item number when ordering.

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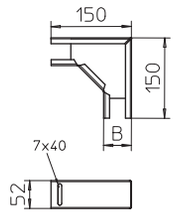
90° bend

Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LTS B DD	50	50	1	35,700	**6074901**

St Steel /pc.

DD Strip galvanised zinc/aluminium, Double Dip

90° bend, horizontal, for AZ channel AZK 050 and luminaire support channel LTS 50.





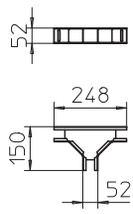
Tee

Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LTS T DD	50	50	1	46,500	**6074912**

St Steel /pc.

DD Strip galvanised zinc/aluminium, Double Dip

Horizontal tee, for AZ channel AZK 050 and luminaire support channel LTS 50.





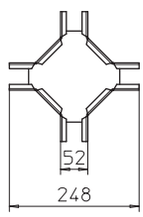
Cross-over

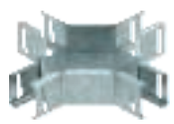
Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LTS K DD	50	50	1	57,000	**6074921**

St Steel /pc.

DD Strip galvanised zinc/aluminium, Double Dip

Cross-over, horizontal, for AZ channel AZK 050 and luminaire support channel LTS 50.



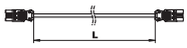


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Always indicate the item number when ordering.

Connection cable 3 x 1.5 mm²





Type	Cable length mm	Cross-section mm²	Number of poles	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VL-3Q1.5 3 SW	3000	1.5	3	Black	1	42,000	**6108102**
VL-3Q1.5 5 SW	5000	1.5	3	Black	1	70,000	**6108104**
VL-3Q1.5 10 SW	10000	1.5	3	Black	1	140,000	**6108109**

/pc.

Connection cable 3 x 1.5 mm² in the version socket – connector with GST18i connection system.

Connection cable 3 x 2.5 mm²





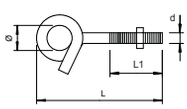
Type	Cable length mm	Cross-section mm²	Number of poles	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VL-3Q2.5 3 SW	3000	2.5	3	Black	1	54,000	**6108152**
VL-3Q2.5 5 SW	5000	2.5	3	Black	1	90,000	**6108154**
VL-3Q2.5 10 SW	10000	2.5	3	Black	1	180,000	**6108159**

/pc.

Connection cable 3 x 2.5 mm² in the version socket – connector with GST18i connection system.

Ceiling hook





Type	Thread	Dim. d mm	Dim. L mm	Dimension L1 mm	Dimension d Ø mm	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
948 TG6	M6	6	70	46	13	1	25	5,000	**3453820**

St Steel

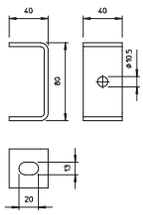
/100 pc.

G Electrogalvanised

Tightly wound ceiling hook. Including two large washers and nuts.

Ceiling bracket





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DB FT	20	16,000	**6356109**

St Steel

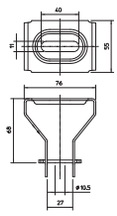
/pc.

FT Hot-dip galvanised

Ceiling bracket for threaded rod suspension.

Ceiling bracket, variable





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DBV FS	20	18,200	**6356055**

St Steel

/pc.

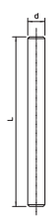
FS Strip-galvanised

The locked threaded rod seat offers the option of infinite angle adjustment.

Ceiling bracket for suspension with threaded rods. The variable adjustment permits universal use.

Threaded rod





Type	Thread	Dim. d mm	Dim. L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2078 M8 1M G	M8	8	1000	10	30,000	**3141128**
2078 M10 1M G	M10	10	1000	10	49,000	**3141209**
2078 M12 1M G	M12	12	1000	10	62,000	**3141306**
2078 M8 2M G	M8	8	2000	10	60,000	**3141136**
2078 M10 2M G	M10	10	2000	10	98,000	**3141140**
2078 M12 2M G	M12	12	2000	10	140,000	**3141144**

St Steel

/100 pc.

G Electrogalvanised

Threaded rod to DIN 976.

Always indicate the item number when ordering.

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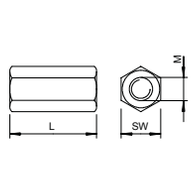
Connection sleeve

Type	Thread	Dim. L mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
12005 M8 G	M8	30	13	50	2,000	**6410081**
12005 M10 G	M10	40	17	50	6,000	**6410103**
12005 M12 G	M12	40	19	25	7,000	**6410111**

St Steel /100 pc.

G Electrogalvanised

Connection sleeve with continuous internal thread.





Ceiling bracket, trapezoidal

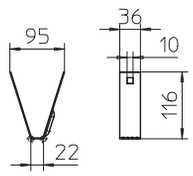
Type	Material thickness mm	F in kN	Pack. pcs	Weight kg/100 pcs.	Item No.
TPB 100 FS	1.5	0.8	20	9,900	**6357506**

St Steel /pc.

FS Strip-galvanised

Important: Observe the statics of the trapezoidal metal ceiling.

Ceiling bracket for fastening to standard trapezoidal ceilings.





Splint for trapezoidal ceiling bracket

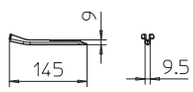
Type	Material thickness mm	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
TPB R FS	1.5	0.8	20	3,700	**6357536**

St Steel /pc.

FS Strip-galvanised

Important: Observe the statics of the trapezoidal metal ceiling.

Splint for fastening and securing the ceiling bracket to trapezoidal ceilings.





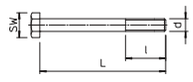
Hexagonal bolt

Type	Dimension mm	Dim. L mm	Dim. l mm	Dim. d mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 10X110 G	M10 x 110	110	30	10	17	20	9,500	**6418244**

St Steel /100 pc.

G Electrogalvanised

Hexagonal bolt with washers and hexagonal nut.





Suspension chain

Type	Material thickness mm	Pack. m	Weight kg/100 m	Item No.
LTK-K 10 G	2.6	10	19,000	**6050360**
LTK-K 25 G	2.6	25	19,000	**6050370**

St Steel /m

G Electrogalvanised

Chain according to DIN 5686 for suspending luminaire support systems.



Quick link

Type	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KNG G	4	100	0,700	**6050375**

St Steel /100 pc.

G Electrogalvanised

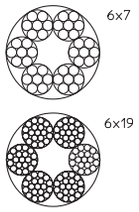
Quick link for connecting the chain, type LTK.



Always indicate the item number when ordering.

Steel wire tensioning rope





Type	Cable diameter mm	Breaking load kN	In rings m	Weight kg/100 m	Item No.
957 3 G	3	5.29	50	3,220	**5303206**

St Steel — price/100 m

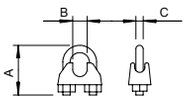
G Electrogalvanised

Steel wire tensioning rope, galvanised with fibre inlay (hemp core).
Cable Ø 2 - 6 mm: round-stranded cable 6 x 7 according to DIN 3055.
Cable Ø 8 - 10 mm: round-stranded cable 6 x 19 according to DIN 3060.
Minimum break force 1770 N/mm².

Application for interior areas!

Wire rope clamp





Type	For rope-Ø mm	Dimension A mm	Dimension B mm	Dimension C mm	Pack. pcs	Weight kg/100 pcs.	Item No.
947 3 F	3	20	4	4	25	1,061	**5302021**

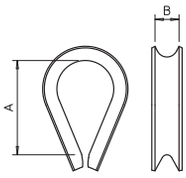
TG Cast iron — /100 pc.

F Hot-dip galvanised

Wire cable clamp for fastening steel wire tensioning cables.
Application for interior areas!

Rope thimble





Type	For rope-Ø mm	Dimension A mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
946 3 G	3	21.5	4	25	0,345	**5301033**

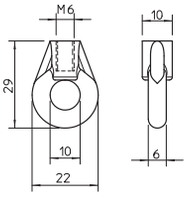
St Steel — /100 pc.

G Electrogalvanised

Cable eye stiffener according to DIN 65457.
Application for interior areas!

Ring eyelet





Type	Thread	Dim. D mm	Dimension d Ø mm	Dim. L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2084 K M6	M6	22	10	29	100	1,500	**3463060**

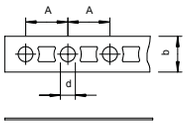
Zn Die-cast zinc — /100 pc.

G Electrogalvanised

Ring eyelet with metric internal thread.

Perforated steel strap





Type	Dimension mm	Dim. d mm	Dimension A mm	per roll m	Pack. pcs	Weight kg/100 pcs.	Item No.
5055 I12 FS	12 x 1	5.2	14.4	10	1	73,000	**1470124**
5055 II17 FS	17 x 1	6.5	20	10	1	106,000	**1470175**
5055 III26 FS	26 x 1.2	8.5	25	10	1	204,500	**1470264**
5055 LI12 FS	12 x 0.75	5.2	14.4	10	1	59,000	**1471120**
5055 LII17 FS	17 x 0.75	6.5	20	10	1	84,200	**1471171**
5055 LIII26 FS	26 x 1	8.5	25	10	1	172,300	**1471260**

St Steel — /pc.

FS Strip-galvanised

Perforated steel strap, in practical uncoiling box.

Always indicate the item number when ordering.

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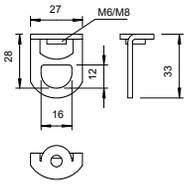
TS suspension eyelet

Type	Thread	Breaking load kN	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
2990 M6 G	M6	3.5	500	50	2,320	**3462862**
2990 M8 G	M8	3.5	500	50	2,320	**3462889**

St Steel /100 pc.

G Electrogalvanised

Suspension eyelet with interior thread.

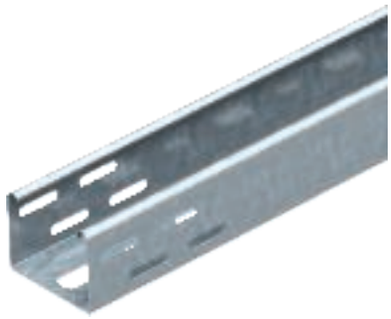




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Always indicate the item number when ordering.

Luminaire support tray



Type	Width mm	Plate thickness mm	Colour	Pack. m	Weight kg/100 m	Item No.
LTR 3000 FS	75	0.75	—	3	125,700	**6055810**
LTR 6000 FS	75	0.75	—	6	125,700	**6055812**
LTR FSK RW	75	0.75	Pure white	6	129,540	**6055820**

St Steel /m

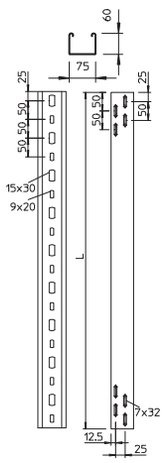
FS Strip-galvanised PE50 PES50 - Polyester / epoxy

The white version is a visible surface coating.

Luminaire support tray with perforated base for fastening luminaires and cable penetration.

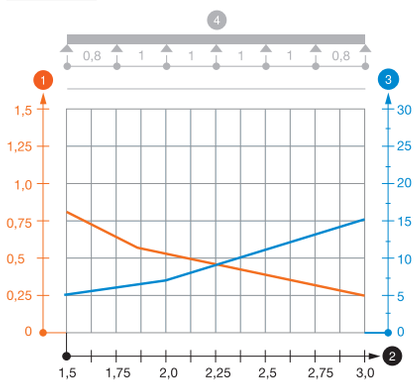
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Width mm	Useful cross-section cm²
LTR 3000 FS	3000	75	42
LTR 6000 FS	6000	75	42

Load



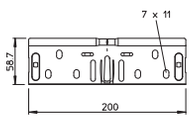
Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
LTR 3000 FS	0.8	0.55	0.35	0.25
LTR 6000 FS	0.8	0.55	0.35	0.25

Load diagram, luminaire support tray, type LTR

- Support width in m
- 1 Permitted cable tray/ladder load in kN/m without man load
- Rail bend in mm at permitted kN/m
- 2 Support width in m
- Max. possible cable load at greatest possible width
- 3 Rail bend in mm at permitted kN/m
- Permitted cable tray/ladder load in kN/m without man load
- 4 Load scheme during testing
- Cable tray/ladder width in mm
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width

Straight connector set





Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RV 607 FS	60	75	10	18,800	**6068150**

St Steel /pc.

FS Strip-galvanised

The continuous earthing connection is guaranteed without a screw connection.

Quick connector set for straight, screwless connections of cable trays and fittings with a side height of 60 mm.

Always indicate the item number when ordering.

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Central suspension

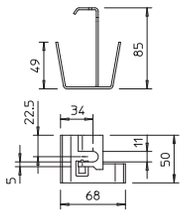
Type	For width mm	For threaded rod	Pack. pcs	Weight kg/100 pcs.	Item No.
MAH LTR FS	75	M10	25	12,000	**6358810**

St Steel /pc.

FS Strip-galvanised

The central hanger can be used with all cable trays of width 75 mm and side height 60 mm.

Central hanger for luminaire support tray, type LTR, for threaded rod and chain suspension.





Cover with turn buckle

Type	Width mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRL 075 FS	75	0.75	3000	3	82,330	**6052029**

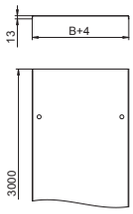
St Steel /m

FS Strip-galvanised

Transverse bead from 500 mm width.

Cover for cable trays and cable ladders with three pairs of turn buckles.

When using covers outdoors, additional measures against the influence of wind must be taken. Cover clamps or turn buckles on their own are not sufficient securing elements against wind loads.





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Always indicate the item number when ordering.



Marine systems

Always indicate the item number when ordering.

Marine systems



Cable tray systems 504



Cable ladder systems 508

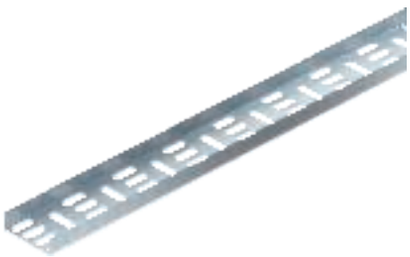


Tightening strap 516



Mounting systems 520

Cable tray, marine standard



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKR 15 050 FS	50	1	2	49,000	**6045952**
MKR 15 075 FS	75	1	2	64,000	**6045960**
MKR 15 100 FS	100	1	2	76,000	**6045979**
MKR 15 150 FS	150	1	2	104,000	**6045995**
MKR 15 200 FS	200	1	2	131,000	**6046002**
MKR 15 300 FS	300	1.5	2	275,000	**6046029**
MKR 15 050 FT	50	1.25	2	65,500	**6045057**
MKR 15 075 FT	75	1.25	2	84,700	**6045073**
MKR 15 100 FT	100	1.25	2	104,000	**6045103**
MKR 15 125 FT	125	1.25	2	125,500	**6045138**
MKR 15 150 FT	150	1.5	2	162,500	**6045154**
MKR 15 200 FT	200	1.5	2	205,500	**6045200**
MKR 15 250 FT	250	1.5	2	253,000	**6045251**
MKR 15 300 FT	300	1.5	2	292,700	**6045308**

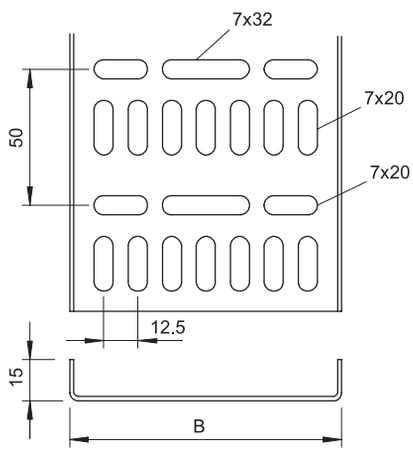
St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

The cable tray is manufactured according to the VG standard 88900. The side rail of the cable track is unperforated. Also available in 1.25 mm on request.

Perforated metal cable tray according to marine standard. Cable tray with 7 x 20 mm base perforation for cable ventilation and simplified mounting.

Dimensions



Type	Length mm	Width mm	Dimension B mm	Side height mm
MKR 15 050 FS	2000	50	50	15
MKR 15 075 FS	2000	75	75	15
MKR 15 100 FS	2000	100	100	15
MKR 15 150 FS	2000	150	150	15
MKR 15 200 FS	2000	200	200	15
MKR 15 300 FS	2000	300	300	15

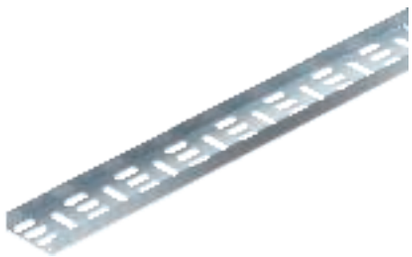
Always indicate the item number when ordering.

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Cable tray, marine standard

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKR 15 050 ALU	50	1.25	2	25,500	**6045707**
MKR 15 075 ALU	75	1.25	2	33,000	**6045715**
MKR 15 100 ALU	100	1.25	2	39,500	**6045723**
MKR 15 150 ALU	150	1.5	2	70,500	**6045758**
MKR 15 200 ALU	200	1.5	2	89,500	**6045766**
MKR 15 250 ALU	250	1.5	2	108,000	**6045774**

Alu Aluminium /m

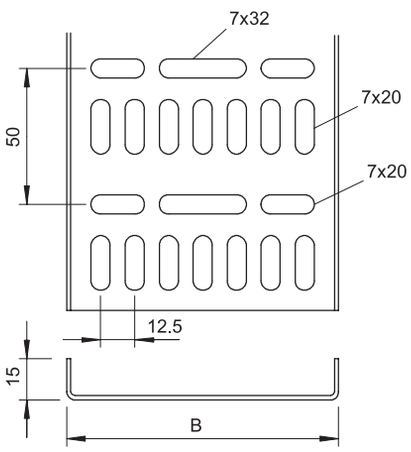


The cable tray is manufactured according to the VG standard 88900. The side rail of the cable track is unperforated.

Perforated metal cable tray according to marine standard. Cable tray with 7 x 20 mm base perforation for cable ventilation and simplified mounting.

Dimensions

Type	Length mm	Width mm	Dimension B mm	Side height mm
MKR 15 050 ALU	2000	50	50	15
MKR 15 075 ALU	2000	75	75	15
MKR 15 100 ALU	2000	100	100	15
MKR 15 150 ALU	2000	150	150	15
MKR 15 200 ALU	2000	200	200	15
MKR 15 250 ALU	2000	250	250	15



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Always indicate the item number when ordering.

Cable tray, marine standard



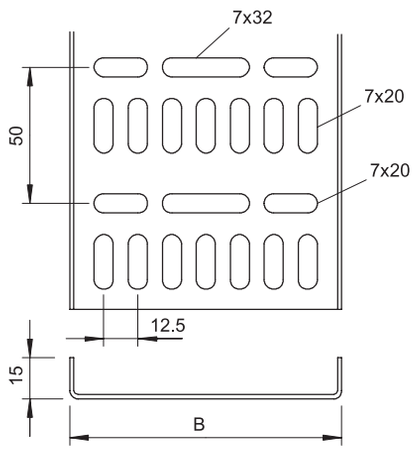
Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKR 15 050VA4301	50	1.25	2	61,250	**6045830**
MKR 15 075VA4301	75	1.25	2	80,000	**6045832**
MKR 15 100VA4301	100	1.25	2	95,000	**6045834**
MKR 15 150VA4301	150	1.5	2	156,000	**6045838**
MKR 15 200VA4301	200	1.5	2	196,500	**6045840**
MKR 15 300VA4301	300	1.5	2	275,000	**6045844**
MKR 15 050VA4571	50	1.25	2	49,000	**6045850**
MKR 15 075VA4571	75	1.25	2	64,000	**6045852**
MKR 15 100VA4571	100	1.25	2	76,000	**6045854**
MKR 15 150VA4571	150	1.5	2	156,000	**6045858**
MKR 15 200VA4571	200	1.5	2	196,500	**6045860**
MKR 15 300VA4571	300	1.5	2	275,000	**6045864**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /m

The cable tray is manufactured according to the VG standard 88900. The side rail of the cable track is unperforated.

Perforated metal cable tray according to marine standard. Cable tray with 7 x 20 mm base perforation for cable ventilation and simplified mounting.

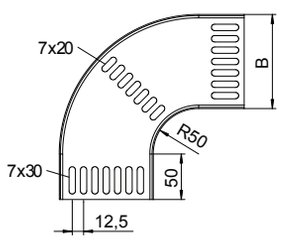
Dimensions



Type	Length mm	Width mm	Dimension B mm	Side height mm
MKR 15 050VA4301	2000	50	50	15
MKR 15 075VA4301	2000	75	75	15
MKR 15 100VA4301	2000	100	100	15
MKR 15 150VA4301	2000	150	150	15
MKR 15 200VA4301	2000	200	200	15
MKR 15 300VA4301	2000	300	300	15

Bend 90 °





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 90 75 050 FS	51	1	14,600	**7061146**
RB 90 75 075 FS	76	1	21,300	**7061050**
RB 90 75 100 FS	101	1	28,400	**7061244**
RB 90 75 125 FS	126	1	56,500	**7061252**
RB 90 75 150 FS	151	1	73,300	**7061360**
RB 90 75 200 FS	201	1	102,400	**7061449**
RB 90 75 250 FS	252	1	163,800	**7061546**
RB 90 75 300 FS	302	1	206,000	**7061643**
RB 90 75 050 FT	51	1	16,000	**7061145**
RB 90 75 075 FT	76	1	23,280	**7061048**
RB 90 75 100 FT	101	1	31,090	**7061242**
RB 90 75 200 FT	201	1	110,600	**7061447**
RB 90 75 250 FT	252	1	176,900	**7061544**
RB 90 75 300 FT	302	1	222,480	**7061641**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

90° bend, horizontal, for all ship construction cable tray types according to the marine standard of 15 mm side height.

Always indicate the item number when ordering.

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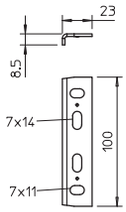
Screw connector

Type	Dimension mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SV MKR FS	16 x 29 x 60	25	4,900	**6066242**
SV MKR FT	16 x 29 x 60	25	5,000	**6066240**

St Steel /pc.

FS Strip-galvanised FT Hot-dip galvanised

Straight connector for straight connection of cable trays, according to the marine standard, and fittings with a side height of 15 mm.

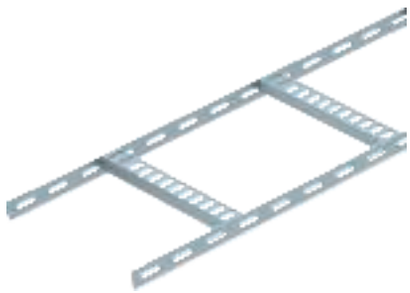




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Always indicate the item number when ordering.

Cable ladder, light duty



Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SL 42 075 FT	75	3	2	114,000	**7097115**
SL 42 100 FT	100	3	2	118,000	**7097123**
SL 42 150 FT	150	3	2	125,000	**7097131**
SL 42 200 FT	200	3	2	132,500	**7097158**
SL 42 250 FT	250	3	2	140,000	**7097166**
SL 42 300 FT	300	3	2	147,500	**7097174**

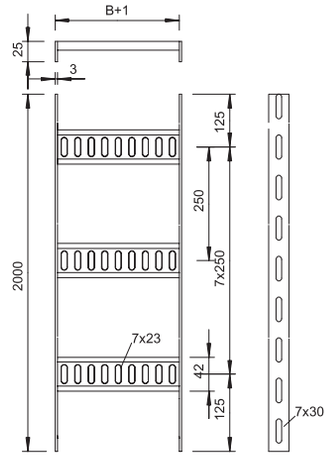
St Steel /m

FT Hot-dip galvanised

The marine cable ladder, including fittings, is also available in stainless steel on request. Powder coating according to RAL colours possible.

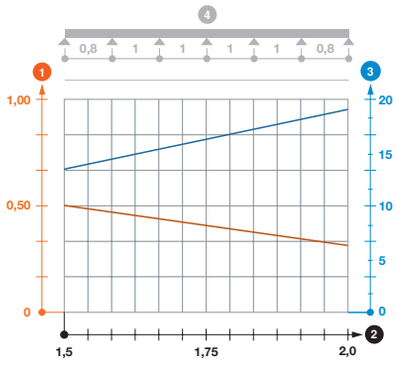
Marine cable ladder with perforated side rail of side height 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction. Load tested according to IEC in conjunction with connector, type SLV.

Dimensions



Type	Length mm	Width mm	Side height mm	Rail thickness mm
SL 42 075 FT	2000	75	25	3
SL 42 100 FT	2000	100	25	3
SL 42 150 FT	2000	150	25	3
SL 42 200 FT	2000	200	25	3
SL 42 250 FT	2000	250	25	3
SL 42 300 FT	2000	300	25	3

Load



Type	1.5 m kN/m	2.0 m kN/m
SL 42 075 FT	0.5	0.36
SL 42 100 FT	0.5	0.36
SL 42 150 FT	0.5	0.36
SL 42 200 FT	0.5	0.36
SL 42 250 FT	0.5	0.36
SL 42 300 FT	0.5	0.36

Load diagram, cable ladder, light duty SL42

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

Load curve with cable tray/ladder width in mm

Strut bend curve according to support width

4 Load scheme during testing

Always indicate the item number when ordering.

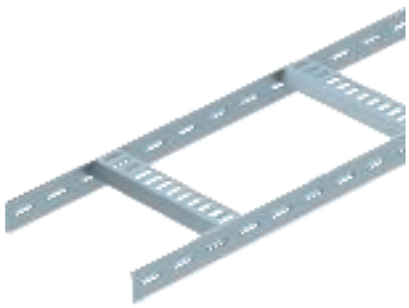
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Cable ladder, standard

Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SL 62 110 FT	110	5	3	307,300	**7097409**
SL 62 160 FT	160	5	3	314,300	**7097417**
SL 62 210 FT	210	5	3	342,700	**7097425**
SL 62 310 FT	310	5	3	378,000	**7097433**
SL 62 410 FT	410	5	3	413,000	**7097441**
SL 62 510 FT	510	5	3	448,700	**7097468**
SL 62 610 FT	610	5	3	483,700	**7097476**

St Steel /m

FT Hot-dip galvanised

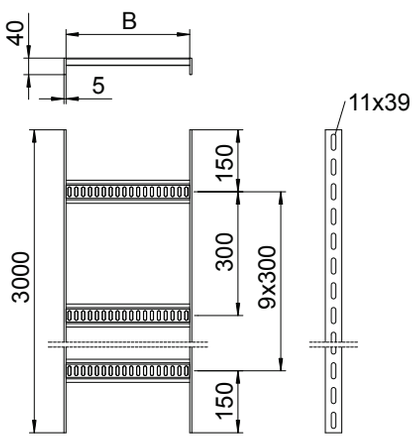


The marine cable ladder, including fittings, is also available in stainless steel on request. Powder coating according to RAL colours possible.

Marine cable ladder with perforated side rail of side height 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction. Load tested according to IEC in conjunction with connector, type SLV.

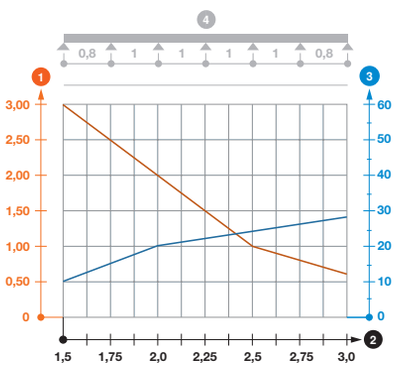
Dimensions

Type	Length mm	Width mm	Side height mm	Rail thickness mm
SL 62 110 FT	3000	110	40	5
SL 62 160 FT	3000	160	40	5
SL 62 210 FT	3000	210	40	5
SL 62 310 FT	3000	310	40	5
SL 62 410 FT	3000	410	40	5
SL 62 510 FT	3000	510	40	5
SL 62 610 FT	3000	610	40	5



Load

Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SL 62 110 FT	3	2	1	0.6
SL 62 160 FT	3	2	1	0.6
SL 62 210 FT	3	2	1	0.6
SL 62 310 FT	3	2	1	0.6
SL 62 410 FT	3	2	1	0.6
SL 62 510 FT	3	2	1	0.6
SL 62 610 FT	3	2	1	0.6



Load diagram, cable ladder SL62

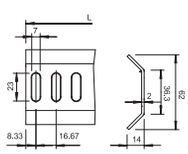
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

Rung, standard

Type	Length mm	Pack. m	Weight kg/100 m	Item No.
SLSP 62 300 SG	3000	3	98,900	**7102674**
SLSP 62 300 FT	3000	3	104,800	**7102771**

St Steel /m

SG welding primed FT Hot-dip galvanised





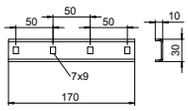
Light-duty rung with 7 x 23 mm perforation. For welding in cable ladders, type SL 62, and for static constructions.

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Always indicate the item number when ordering.

Connector





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SLV 42 FT	42	20	11,900	**7103540**

St Steel /pc.

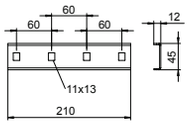
FT Hot-dip galvanised

The bolt fastening ensures the continuity of the equipotential bonding.

Straight connector as external connector to connect cable ladders and fittings with a side height of 25 mm.

Connector





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SLV 62 FT	62	10	20,900	**7103548**

St Steel /pc.

FT Hot-dip galvanised

The bolt fastening ensures the continuity of the equipotential bonding.

Straight connector as external connector to connect cable ladders and fittings with a side height of 40 mm.

Always indicate the item number when ordering.

Cable ladder with Z rung, light duty

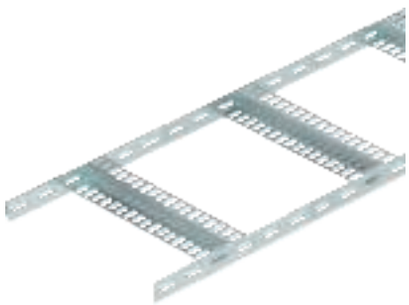
Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SLZ L 100 FT	100	3	3	175,340	**7098002**
SLZ L 150 FT	150	3	3	186,670	**7098004**
SLZ L 200 FT	200	3	3	198,340	**7098006**
SLZ L 300 FT	300	3	3	221,670	**7098008**
SLZ L 400 FT	400	3	3	245,000	**7098010**
SLZ L 500 FT	500	3	3	268,340	**7098012**
SLZ L 600 FT	600	3	3	291,670	**7098014**

St Steel /m

FT Hot-dip galvanised

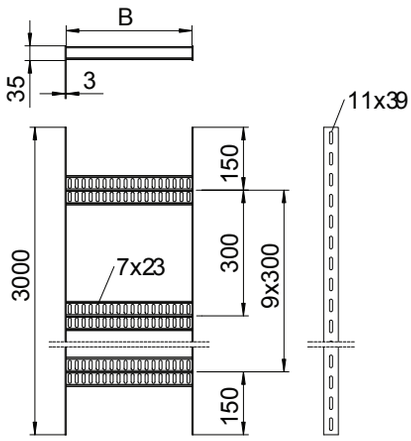
The marine cable ladder, including fittings, is also available in stainless steel on request. Powder coating according to RAL colours possible.

Light-duty marine cable ladder with perforated side rail of side height 35 mm with welded, perforated Z rungs. Load tested according to IEC in conjunction with connector, type SLV.



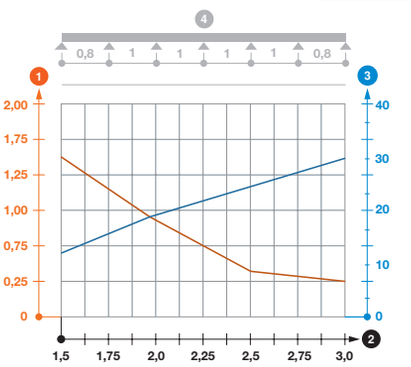
Dimensions

Type	Length mm	Width mm	Side height mm	Rail thickness mm
SLZ L 100 FT	3000	100	35	3
SLZ L 150 FT	3000	150	35	3
SLZ L 200 FT	3000	200	35	3
SLZ L 300 FT	3000	300	35	3
SLZ L 400 FT	3000	400	35	3
SLZ L 500 FT	3000	500	35	3
SLZ L 600 FT	3000	600	35	3



Load

Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SLZ L 100 FT	1.5	0.85	0.35	0.25
SLZ L 150 FT	1.5	0.85	0.35	0.25
SLZ L 200 FT	1.5	0.85	0.35	0.25
SLZ L 300 FT	1.5	0.85	0.35	0.25
SLZ L 400 FT	1.5	0.85	0.35	0.25
SLZ L 500 FT	1.5	0.85	0.35	0.25
SLZ L 600 FT	1.5	0.85	0.35	0.25

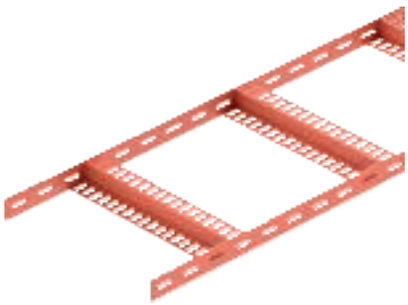


Load diagram, cable ladder SLZ L

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

Always indicate the item number when ordering.

Cable ladder with Z rung, light duty



Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SLZ L 100 SG	100	3	3	167,000	**7098032**
SLZ L 150 SG	150	3	3	177,340	**7098034**
SLZ L 200 SG	200	3	3	187,670	**7098036**
SLZ L 300 SG	300	3	3	208,670	**7098038**
SLZ L 400 SG	400	3	3	229,340	**7098040**
SLZ L 500 SG	500	3	3	250,000	**7098042**
SLZ L 600 SG	600	3	3	270,670	**7098044**

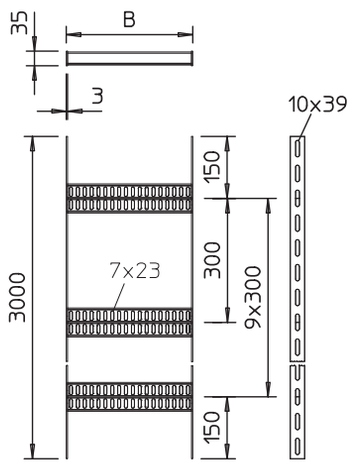
St Steel /m

SG welding primed

The marine cable ladder, including fittings, is also available in stainless steel on request. Powder coating according to RAL colours possible.

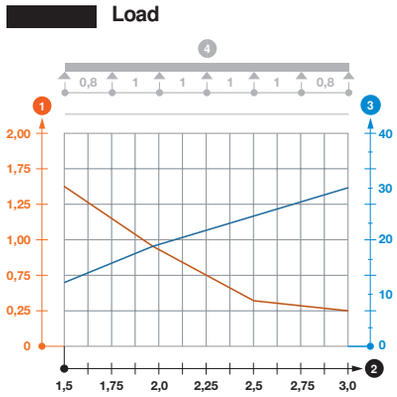
Light-duty marine cable ladder with perforated side rail of side height 35 mm with welded, perforated Z rungs. Load tested according to IEC in conjunction with connector, type SLV. Welding primer, type SIGMA-WELD 199, also available in white.

Dimensions



Type	Length mm	Width mm	Side height mm	Rail thickness mm
SLZ L 100 SG	3000	100	35	3
SLZ L 150 SG	3000	150	35	3
SLZ L 200 SG	3000	200	35	3
SLZ L 300 SG	3000	300	35	3
SLZ L 400 SG	3000	400	35	3
SLZ L 500 SG	3000	500	35	3
SLZ L 600 SG	3000	600	35	3

Load



Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SLZ L 100 SG	1.5	0.85	0.35	0.25
SLZ L 150 SG	1.5	0.85	0.35	0.25
SLZ L 200 SG	1.5	0.85	0.35	0.25
SLZ L 300 SG	1.5	0.85	0.35	0.25
SLZ L 400 SG	1.5	0.85	0.35	0.25
SLZ L 500 SG	1.5	0.85	0.35	0.25
SLZ L 600 SG	1.5	0.85	0.35	0.25

Load diagram, cable ladder SLZ L

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

Always indicate the item number when ordering.

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Cable ladder with Z rung, standard

Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SLZ 100 FT	100	5	3	328,700	**7098132**
SLZ 200 FT	200	5	3	385,300	**7098134**
SLZ 300 FT	300	5	3	441,700	**7098136**
SLZ 400 FT	400	5	3	498,300	**7098138**
SLZ 500 FT	500	5	3	554,700	**7098140**
SLZ 600 FT	600	5	3	611,300	**7098142**
SLZ 700 FT	700	5	3	667,700	**7098144**
SLZ 800 FT	800	5	3	724,300	**7098146**
SLZ 900 FT	900	5	3	780,700	**7098148**
SLZ 1000 FT	1000	5	3	837,300	**7098150**
SLZ 1200 FT	1200	5	3	950,300	**7098152**

St Steel /m

FT Hot-dip galvanised

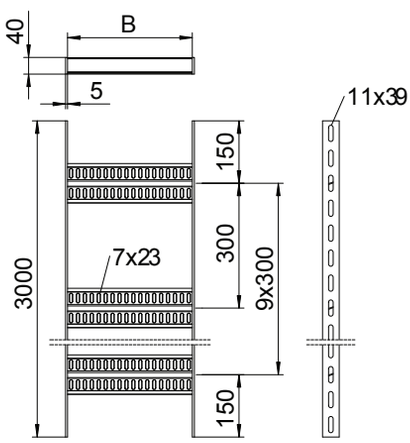


The marine cable ladder, including fittings, is also available in stainless steel on request. Powder coating according to RAL colours possible.

Marine cable ladder with perforated side rail of side height 40 mm with welded, perforated Z rungs. Load tested according to IEC in conjunction with connector, type SLV.

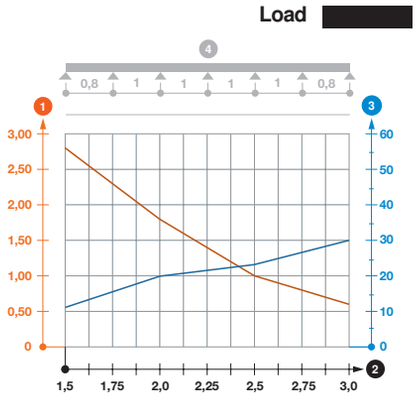
Dimensions

Type	Length mm	Width mm	Side height mm	Rail thickness mm
SLZ 100 FT	3000	100	40	5
SLZ 200 FT	3000	200	40	5
SLZ 300 FT	3000	300	40	5
SLZ 400 FT	3000	400	40	5
SLZ 500 FT	3000	500	40	5
SLZ 600 FT	3000	600	40	5
SLZ 700 FT	3000	700	40	5
SLZ 800 FT	3000	800	40	5
SLZ 900 FT	3000	900	40	5
SLZ 1000 FT	3000	1000	40	5
SLZ 1200 FT	3000	1200	40	5



Load

Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SLZ 100 FT	2.8	1.75	1	0.6
SLZ 200 FT	2.8	1.75	1	0.6
SLZ 300 FT	2.8	1.75	1	0.6
SLZ 400 FT	2.8	1.75	1	0.6
SLZ 500 FT	2.8	1.75	1	0.6
SLZ 600 FT	2.8	1.75	1	0.6
SLZ 700 FT	2.8	1.75	1	0.6
SLZ 800 FT	2.8	1.75	1	0.6
SLZ 900 FT	2.8	1.75	1	0.6
SLZ 1000 FT	2.8	1.75	1	0.6
SLZ 1200 FT	2.8	1.75	1	0.6

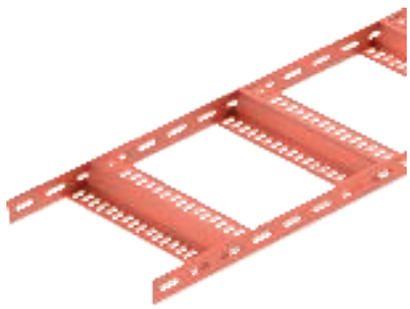


Load diagram, cable ladder SLZ

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

Always indicate the item number when ordering.

Cable ladder with Z rung, standard



Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SLZ 100 SG	100	5	3	319,000	**7098162**
SLZ 200 SG	200	5	3	372,300	**7098164**
SLZ 300 SG	300	5	3	425,700	**7098166**
SLZ 400 SG	400	5	3	479,000	**7098168**
SLZ 500 SG	500	5	3	532,300	**7098170**
SLZ 600 SG	600	5	3	585,700	**7098172**
SLZ 700 SG	700	5	3	639,000	**7098174**
SLZ 800 SG	800	5	3	692,300	**7098176**
SLZ 900 SG	900	5	3	745,700	**7098178**
SLZ 1000 SG	1000	5	3	799,000	**7098180**
SLZ 1200 SG	1200	5	3	905,300	**7098182**

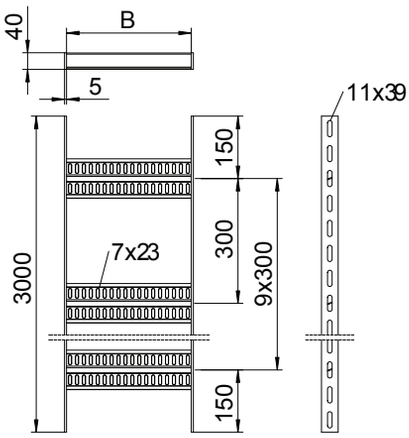
St Steel /m

SG welding primed

The marine cable ladder, including fittings, is also available in stainless steel on request. Powder coating according to RAL colours possible.

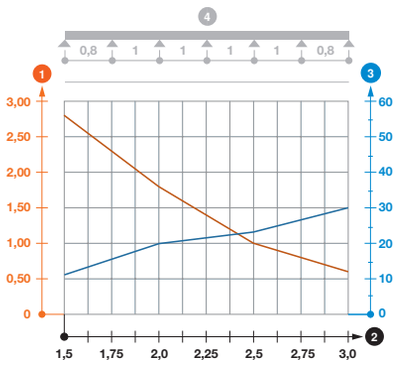
Marine cable ladder with perforated side rail of side height 40 mm with welded, perforated Z rungs. Load tested according to IEC in conjunction with connector, type SLV. Welding primer, type SIGMA-WELD 199, also available in white.

Dimensions



Type	Length mm	Width mm	Side height mm	Rail thickness mm
SLZ 100 SG	3000	100	40	5
SLZ 200 SG	3000	200	40	5
SLZ 300 SG	3000	300	40	5
SLZ 400 SG	3000	400	40	5
SLZ 500 SG	3000	500	40	5
SLZ 600 SG	3000	600	40	5
SLZ 700 SG	3000	700	40	5
SLZ 800 SG	3000	800	40	5
SLZ 900 SG	3000	900	40	5
SLZ 1000 SG	3000	1000	40	5
SLZ 1200 SG	3000	1200	40	5

Load



Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SLZ 100 SG	2.8	1.75	1	0.6
SLZ 200 SG	2.8	1.75	1	0.6
SLZ 300 SG	2.8	1.75	1	0.6
SLZ 400 SG	2.8	1.75	1	0.6
SLZ 500 SG	2.8	1.75	1	0.6
SLZ 600 SG	2.8	1.75	1	0.6
SLZ 700 SG	2.8	1.75	1	0.6
SLZ 800 SG	2.8	1.75	1	0.6
SLZ 900 SG	2.8	1.75	1	0.6
SLZ 1000 SG	2.8	1.75	1	0.6
SLZ 1200 SG	2.8	1.75	1	0.6

Load diagram, cable ladder SLZ

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

Always indicate the item number when ordering.

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90° bend with Z rung

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SLBZ 90 100 FT	100	1	231,000	**7099000**
SLBZ 90 150 FT	150	1	269,000	**7099001**
SLBZ 90 200 FT	200	1	306,500	**7099002**
SLBZ 90 300 FT	300	1	382,000	**7099004**
SLBZ 90 400 FT	400	1	458,000	**7099006**
SLBZ 90 500 FT	500	1	533,000	**7099008**
SLBZ 90 600 FT	600	1	609,000	**7099010**
SLBZ 90 700 FT	700	1	806,000	**7099012**
SLBZ 90 800 FT	800	1	900,000	**7099014**
SLBZ 90 900 FT	900	1	994,000	**7099016**
SLBZ 90 1000 FT	1000	1	1.088,000	**7099018**
SLBZ 90 1200 FT	1200	1	1.276,000	**7099020**

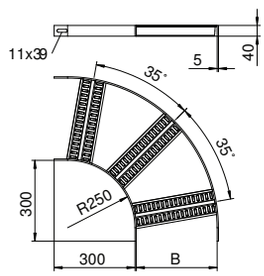
St Steel /pc.

FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.

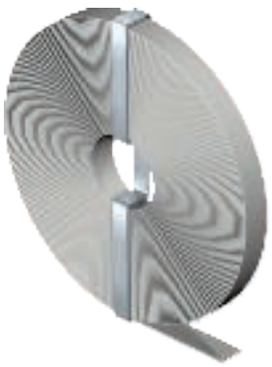
90° bend, horizontal, for all shipping cable ladder types with a side height of 40 mm and Z rung.





Always indicate the item number when ordering.

Tightening strap



Type	Dimension mm	Minimum breaking load kN	Colour	Pack. m	Weight kg/100 m	Item No.
574 G STGR	17 x 1.2	1.35	Stone grey	25	5,880	**6490018**

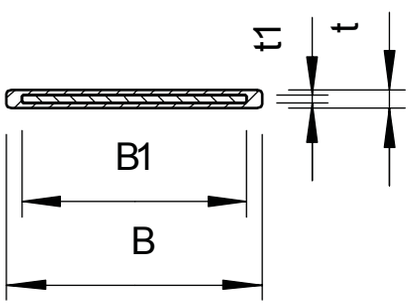
St Steel

G Electrogalvanised

price/100 m

Galvanised tightening strap and with plastic covering for fastening on cable trays and ladders.

Dimensions



Dimensions

Type	B	t	B1	t1
	mm	mm	mm	mm
574 G STGR	17	1.2	15.5	0.3

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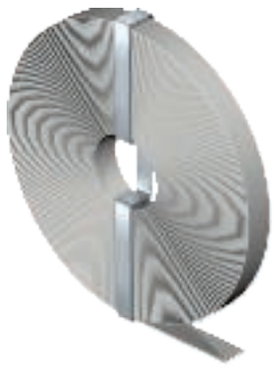
Always indicate the item number when ordering.

Tightening strap

Type	Dimension mm	Minimum breaking load kN	Colour	Pack. m	Weight kg/100 m	Item No.
574 03 SW	17 x 1.2	2.25	Jet black	25	6,950	**6490026**
574 03 LBL	17 x 1.2	2.25	Light blue	25	6,950	**6490034**
574 05 PGN	17 x 1.2	3.5	Patina green	25	7,120	**6490050**

V2A Stainless steel, grade 301 price/100 m

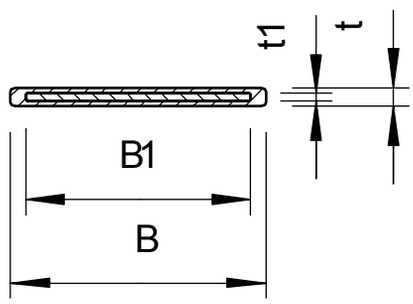
Tightening strap made of rustproof steel and with plastic covering for fastening on cable trays and ladders.



Dimensions

Type	B	t	B1	t1
	mm	mm	mm	mm
574 03 SW	17	1.2	15.5	0.3
574 03 LBL	17	1.2	15.5	0.3
574 05 PGN	17	1.2	14.5	0.5

Dimensions



Tightening strap

Type	Dimension mm	Length mm	Minimum breaking load kN	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
574 03 30 SW	17 x 1.2	300	2.25	Jet black	25	2,410	**6490111**
574 03 30 LBL	17 x 1.2	300	2.25	Light blue	25	2,410	**6490107**
574 03 45 LBL	17 x 1.2	450	2.25	Light blue	25	3,260	**6490123**
574 05 55 PGN	17 x 1.2	550	3.5	Patina green	25	4,660	**6490158**
574 05 65 PGN	17 x 1.2	650	3.5	Patina green	25	5,370	**6490174**

V2A Stainless steel, grade 304 V2A Stainless steel, grade 301 /100 pc.

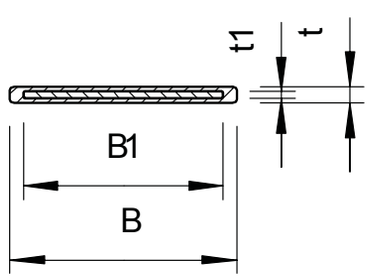
Tightening strap, 574, completely pre-assembled with tightening strap lock.



Dimensions

Type	B	t	B1	t1
	mm	mm	mm	mm
574 03 30 SW	17	1.2	15.5	0.3
574 03 30 LBL	17	1.2	15.5	0.3
574 03 45 LBL	17	1.2	15.5	0.3
574 05 55 PGN	17	1.2	14.5	0.5
574 05 65 PGN	17	1.2	14.5	0.5

Dimensions



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Always indicate the item number when ordering.

Tightening strap



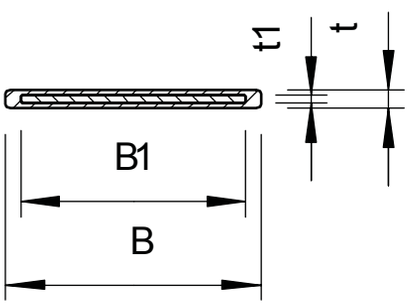
Type	Dimension mm	Length mm	Minimum breaking load kN	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
574 03 45 STGR	17 x 1.2	450	1.35	Stone grey	25	3,260	**6490125**

St Steel /100 pc.

G Electrogalvanised

Tightening strap, 574, electrogalvanised, completely pre-assembled with tightening strap lock.

Dimensions

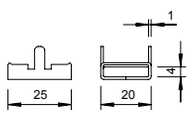


Dimensions

Type	B	t	B1	t1
	mm	mm	mm	mm
574 03 45 STGR	17	1.2	15.5	0.3

Tightening strap lock





Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
192	1200	100	0,900	**6490905**

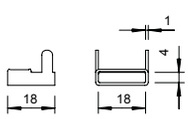
St Steel /100 pc.

DD Strip galvanised zinc/aluminium, Double Dip

Tightening strap lock for mounting under the ceiling.

Tightening strap lock





Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
197 VA4301	1800	100	0,560	**6490964**
197 VA4401	1800	100	0,560	**6490972**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 /100 pc.

Tightening strap lock for single-sided locking of tightening strap in problematic areas.

Always indicate the item number when ordering.

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Spring chuck

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
575	1	29,700	**6498019**

St Steel /pc.

For tightening strap 574/...
Mounting of the tightening strap:
1. Cut the strap to the right length, push it through the lock and turn it over.
2. Loop the strap around the cable, push the loose end through the lock.
3. Tighten the end of the strap with the pliers.
4. Turn the end of the taut strap with the pliers. Remove the pliers.
5. Completely turnover the turned end of the strap with the hammer, secure the end of the strap by hitting the two standing lobes of the lock.



Spring chuck

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
576	1	132,000	**6498027**

St Steel /pc.

For tightening strap 574/...

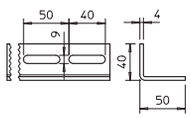


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Always indicate the item number when ordering.

Angle profile





Type	Length mm	Pack. m	Weight kg/100 m	Item No.
WESP 50 40 FT	3000	3	246,340	**7105673**

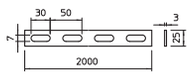
St Steel /m

FT Hot-dip galvanised

Angle profile with double perforation row to create suspension and support constructions.

Construction and suspension profile, SL42





Type	Length mm	Version	Pack. m	Weight kg/100 m	Item No.
SLH 42 FT	2000	Perforated	2	51,500	**7103611**

St Steel /m

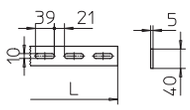
FT Hot-dip galvanised

The rail profile is available in unpainted steel and in stainless steel on request.

Perforated rail profile of marine cable ladder, SL 42, for creation of suspension and support structures.

Construction and suspension profile, SL62





Type	Length mm	Version	Pack. m	Weight kg/100 m	Item No.
SLH 62 FT	3000	Perforated	3	136,000	**7103643**

St Steel /m

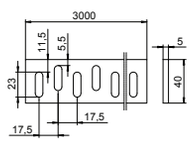
FT Hot-dip galvanised

The rail profile is available in unpainted steel and in stainless steel on request.

Perforated side rail of marine cable ladder, SL 62, for creation of suspension and support structures.

Construction and suspension profile, flat iron rung





Type	Length mm	Pack. m	Weight kg/100 m	Item No.
FESP 40 5 FT	3000	15	130,000	**7104356**

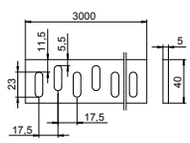
St Steel /m

FT Hot-dip galvanised

Flat iron profile with double, side-offset slot row to create suspended and support constructions.

Construction and suspension profile, flat iron rung





Type	Length mm	Pack. m	Weight kg/100 m	Item No.
FESP 40 5 SG	3000	15	127,000	**7104358**

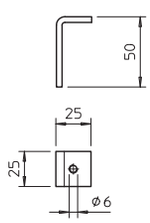
St Steel /m

SG welding primed

Flat iron profile with double, side-offset slot row to create suspended and support constructions.

Welding angle





Type	Dimension mm	Pack. pcs	Weight kg/100 pcs.	Item No.
ASW FT	25x50	10	5,700	**6015350**

St Steel /pc.

FT Hot-dip galvanised

Connection bracket for mounting marine cable ladders and marine tracks, for welding to steel constructions in ship construction.

Always indicate the item number when ordering.

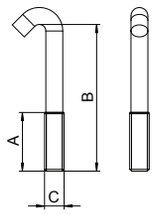
04 KTS Masterkatalog Länder / en / 25/10/2016 (LLExport_04366) / 25/10/2016

Hook screw

Type	Thread length mm	Overall length mm	Thread	Pack. pcs	Weight kg/100 pcs.	Item No.
HS M6x45 A4	18	51	M6	25	0,970	**1154970**
HS M8x60 A4	22	68	M8	25	2,330	**1154975**

V4A Stainless steel, A4 /100 pc.

Hook screw for fastening cable tracks on the bracket.





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Always indicate the item number when ordering.



Modular systems

Always indicate the item number when ordering.

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Modular systems

	**AZ channel**	524
	**Accessories**	530
	**Motor connection column**	534
	**BKK system**	535
	**Accessories**	535

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AZ channel system 50



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
AZK 050 FS	50	1.5	3	135,000	**6075096**
AZK 050 FT	50	1.5	12	137,000	**6075142**

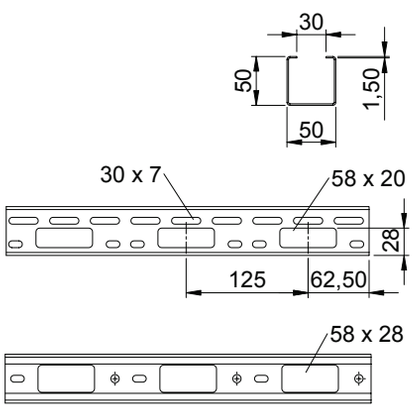
St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

AZ channel with a side height of 50 mm.

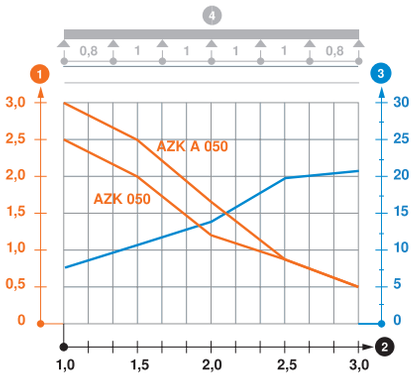
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Width mm	Side height mm
AZK 050 FS	3000	50	50

Load



Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
AZK 050 FS	2.5	2	1.2	0.85	0.5

Load diagram, AZ channel

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

04 KTS Masterkatalog Länder / en / 25/10/2016 (LLExport_04366) / 25/10/2016

AZ channel system 50

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
AZK A 050 FT	50	1.5	3	165,670	**6076149**

St Steel

FT Hot-dip galvanised

/m

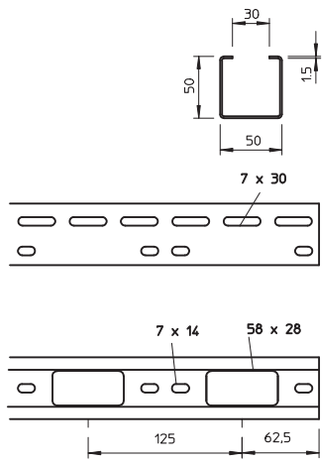
AZ channel with a side height of 50 mm.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.



Dimensions

Type	Length mm	Width mm	Side height mm
AZK A 050 FT	3000	50	50



Load

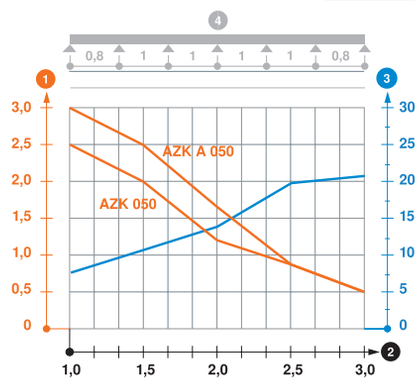
Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
AZK A 050 FT	3	2.5	1.7	0.85	0.5

Load diagram, AZ channel

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

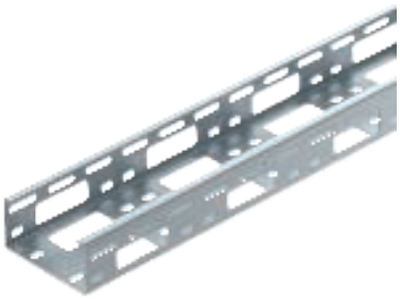
— Strut bend curve according to support width



Always indicate the item number when ordering.

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AZ channel system 100



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
AZK 100 FS	100	1.5	3	177,000	**6075231**
AZK 100 FT	100	1.5	12	188,000	**6075258**

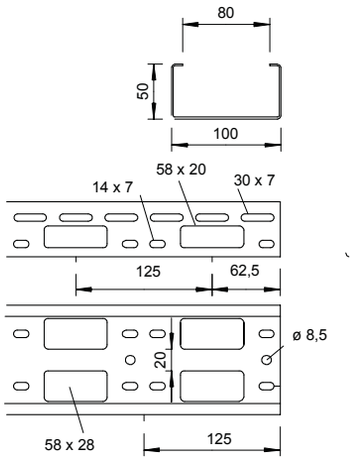
St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

AZ channel with a side height of 50 mm.

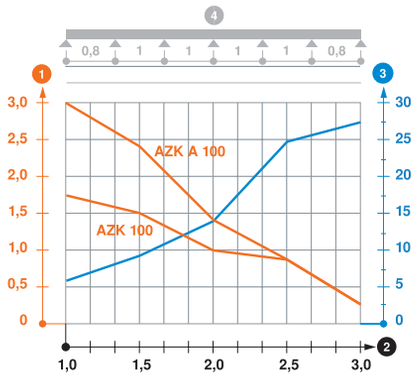
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Width mm	Side height mm
AZK 100 FS	3000	100	50

Load



Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
AZK 100 FS	1.7	1.5	1	0.8	0.25

Load diagram, AZ channel

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

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AZ channel system 100

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
AZK A 100 FT	100	1.5	3	165,670	**6076246**

St Steel

FT Hot-dip galvanised

/m

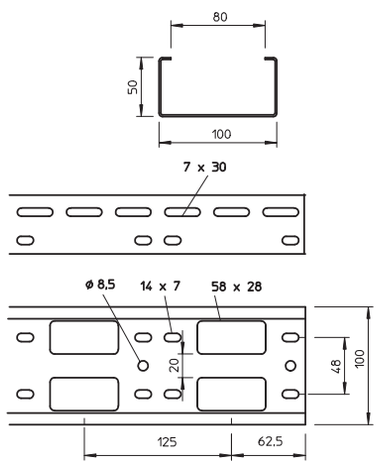
AZ channel with a side height of 50 mm.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.



Dimensions

Type	Length mm	Width mm	Side height mm
AZK A 100 FT	3000	100	50



Load

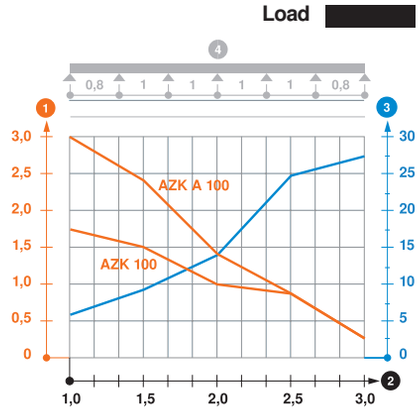
Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
AZK A 100 FT	3	2.4	1.4	0.8	0.25

Load diagram, AZ channel

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

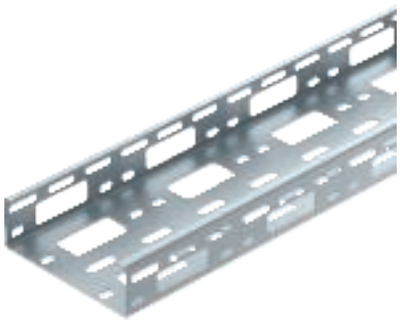
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width



Always indicate the item number when ordering.

AZ channel system 150



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
AZK 150 FS	150	1.5	3	231,700	**6075320**
AZK 150 FT	150	1.5	3	245,700	**6075325**

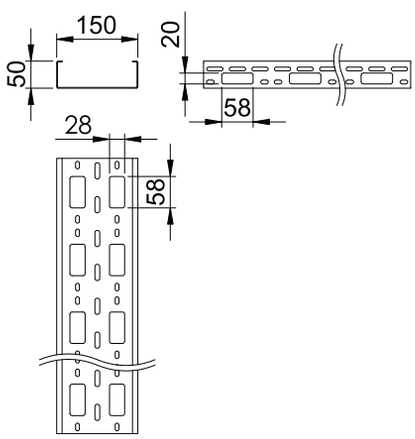
St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

AZ channel with a side height of 50 mm.

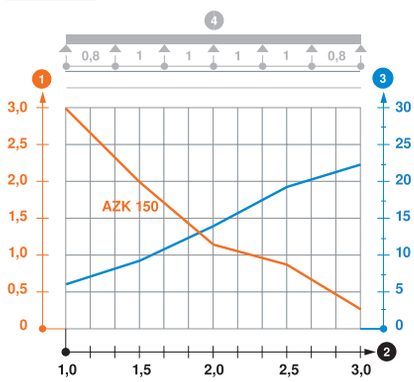
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Width mm	Side height mm
AZK 150 FS	3000	150	50

Load



Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
AZK 150 FS	3	2	1.2	0.8	0.25

Load diagram, AZ channel

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

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AZ channel system 200

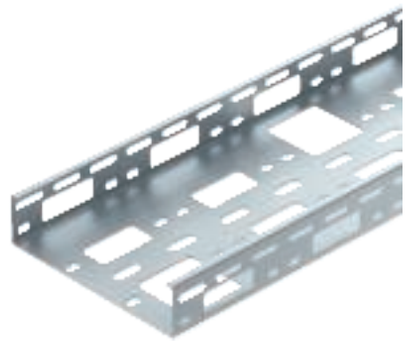
Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
AZK 200 FS	200	1.5	3	280,300	**6075345**
AZK 200 FT	200	1.5	3	296,000	**6075350**

St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

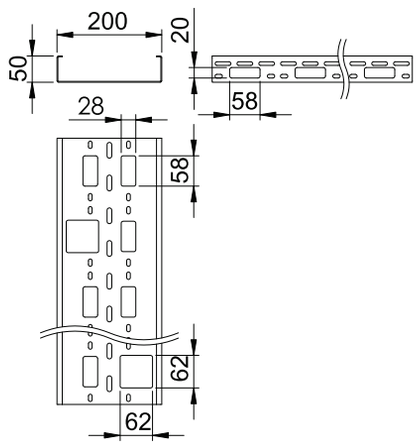
AZ channel with a side height of 50 mm.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.



Dimensions

Type	Length mm	Width mm	Side height mm
AZK 200 FS	3000	200	50



Load

Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
AZK 200 FS	2.5	1.9	1.3	0.8	0.3

Load diagram, AZ channel

1 Permitted cable tray/ladder load in kN/m without man load

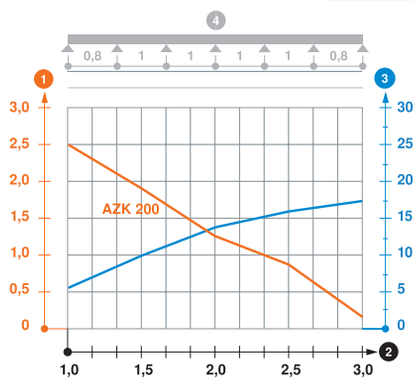
2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

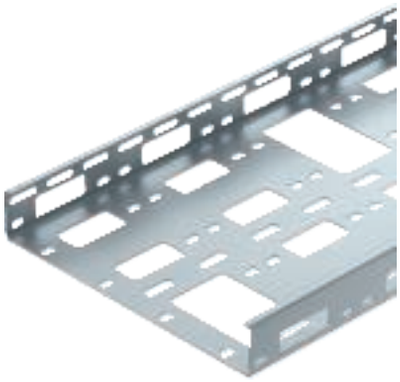
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width



Always indicate the item number when ordering.

AZ channel system 300



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
AZK 300 FS	300	1.5	6	359,300	**6075370**
AZK 300 FT	300	1.5	6	381,000	**6075375**

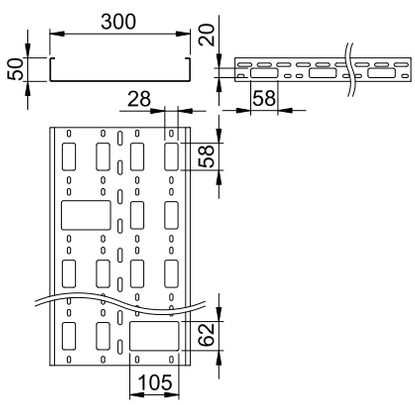
St Steel /m

FS Strip-galvanised FT Hot-dip galvanised

AZ channel with a side height of 50 mm.

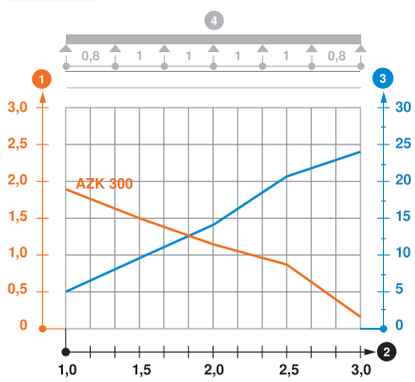
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Width mm	Side height mm
AZK 300 FS	3000	300	50

Load



Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
AZK 300 FS	1.9	1.5	1.2	0.8	0.3

Load diagram, AZ channel

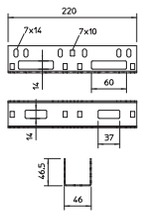
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Straight connector





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VF AZK 50 FS	25	27,100	**6066615**
VF AZK 50 DD	25	27,100	**6066623**

St Steel /pc.

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Straight connector for connection of luminaire support channels and AZ channels.

Always indicate the item number when ordering.

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Straight and angle connector

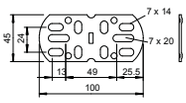
Type		Pack. pcs	Weight kg/100 pcs.	Item No.
VF AZK FT		25	7,500	**6066550**

St Steel /pc.

FT Hot-dip galvanised

An adjustable connector can be created using two straight and angle connectors. Scope of delivery including bolts with flange nuts.

Straight and angle connector for connection of AZ channels.





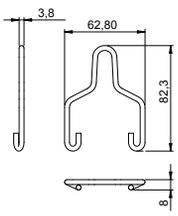
Suspension bracket

Type	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AHB 50 D4 FT	0.35	50	1,985	**6066505**

St Steel /100 pc.

F Hot-dip galvanised

Suspension bracket for chain or steel wire tensioning rope fastening of the luminaire support rail, type LTS 50, and the AZ small duct, type AZK 50.





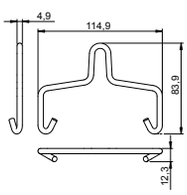
Suspension bracket

Type	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AHB 100 D5 FT	0.6	50	4,060	**6066510**

St Steel /100 pc.

F Hot-dip galvanised

Suspension bracket for chain or steel wire tensioning rope fastening of the luminaire support rail, type LTS 100, and the AZ small duct, type AZK 100.



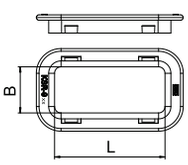


Cable protection ring

Type	Colour	for perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-915 PE	Light grey	28 x 58	25	0,520	**6066704**

PE Polyethylene /pc.

Cable protection ring for bottom perforations in AZ channels and luminaire support channels.



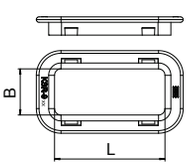


Cable protection ring

Type	Colour	for perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-910 PE	Light grey	20 x 58	25	0,470	**6066712**

PE Polyethylene /pc.

Cable protection ring for bottom perforation in cable trays of type IKS and for side perforation in AZ channels and luminaire support channel.



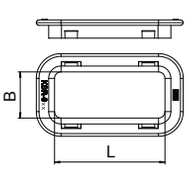


Cable protection ring

Type	Colour	For floor perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-920 PE	Light grey	62 x 62	25	0,770	**6066696**

PE Polyethylene /pc.

Cable protection ring for bottom perforations in AZ channels and luminaire support channels.

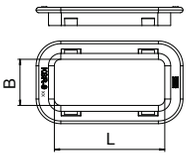




Always indicate the item number when ordering.

Cable protection ring





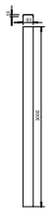
Type	Colour	For floor perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-925 PE	Light grey	105 x 62	25	1,040	**6066688**

PE Polyethylene /pc.

Cable protection ring for bottom perforations in AZ channels and luminaire support channels.

Cover





Type	Width mm	Length mm	Pack. m	Weight kg/100 m	Item No.
AZDU 50 DD	53	3000	3	55,000	**6080158**
AZDU 100 DD	103	3000	3	93,300	**6080239**

St Steel /m

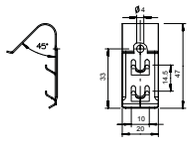
DD Strip galvanised zinc/aluminium, Double Dip

To fasten the cover, use the cover clamp, type DKU.

Cover without turn-buckles for AZ channel.

Cover clamp





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DKU VA4310	20	0,800	**6065600**

V2A Stainless steel, grade 301 /100 pc.

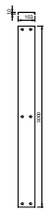
Depending on the tray width, 4–6 cover clamps are required for secure fastening of a 3 m cover.

Cover clamp for universal fastening of covers on cable trays, mesh cable trays and AZ channels.

The cover clamp is not suitable for use with mesh cable trays with a side height of 35 mm.

Cover with turn buckle





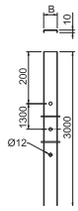
Type	Width mm	Length mm	Pack. m	Weight kg/100 m	Item No.
AZDMD 50 FS	53	3000	3	75,000	**6080138**
AZDMD 100 FS	103	3000	3	96,700	**6080227**
AZDMD 150 FS	153	3000	3	133,000	**6080860**
AZDMD 200 FS	203	3000	3	172,330	**6080885**
AZDMD 300 FS	303	3000	3	250,700	**6080910**

St Steel /m

FS Strip-galvanised

Cover with turn buckle for AZ channel.

Cover with turn buckle



Type	Width mm	Dimension H mm	Length mm	Weight kg/100 m	Item No.
AZDG 50 FS	53	10	3000	75,000	**6080960**
AZDG 100 FS	103	10	3000	93,330	**6080979**

St Steel /m

FS Strip-galvanised

Perforated cover, for threaded rod installation, without turn buckle for AZ small duct.

To fasten the cover, the cover clamp DKU is required.

Always indicate the item number when ordering.

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Cover with turn buckle

Type	Width mm	Length mm	Pack. m	Weight kg/100 m	Item No.
AZDMD 50 DD	53	3000	3	58,300	**6080154**
AZDMD 100 DD	103	3000	3	101,700	**6080235**
AZDMD 150 FT	153	3000	3	137,000	**6080865**
AZDMD 200 FT	203	3000	3	177,000	**6080890**
AZDMD 300 FT	303	3000	3	250,700	**6080915**

St Steel /m

FT Hot-dip galvanised DD Strip galvanised zinc/aluminium, Double Dip

Cover with turn buckle for AZ channel.





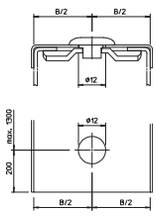
Turn buckle

Type	For width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
AZDR 50 FT	50	20	2,000	**6065112**

St Steel /pc.

FT Hot-dip galvanised

Turn buckle for installation in the cover for AZ channel and BKK system at a later date.





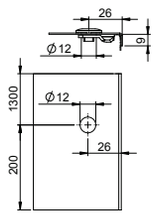
Turn buckle

Type	For width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
AZDR 100 FT	100	20	1,100	**6065104**

St Steel /pc.

FT Hot-dip galvanised

Turn buckle for installation in the cover for AZ channel and BKK system at a later date.

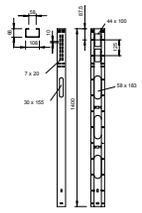




Always indicate the item number when ordering.

Motor connection column





Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MAS 140 10 FT	1400	1	505,000	**6356311**

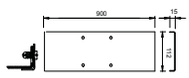
St Steel /pc.

FT Hot-dip galvanised

Vertical motor connection column to supply electrical devices.

Cover for motor connection column





Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MASD 90 FT	900	1	160,000	**6356915**

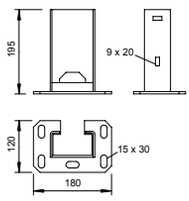
St Steel /pc.

FT Hot-dip galvanised

Cover with turn-buckle for motor connection column.

Column foot





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
SF 140 11 FT	1	200,000	**6356397**

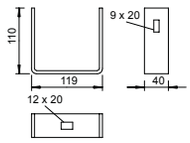
St Steel /pc.

FT Hot-dip galvanised

Column foot for fastening of the motor connection column.

Mounting bracket





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
BF 140 10 FT	10	50,000	**6356362**

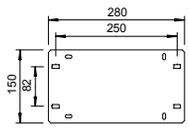
St Steel /pc.

FT Hot-dip galvanised

Mounting bracket for side fastening of motor connection columns to bases or on the wall.

Device plate, GP 15





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GP 15 28 FT	1	101,000	**6357008**

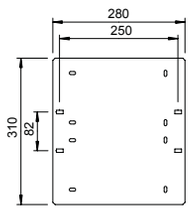
St Steel /pc.

FT Hot-dip galvanised

Mounting plate for fastening to motor connection column, type MAS 140/10.

Device plate, GP 31





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GP 31 28 FT	1	210,000	**6357016**

St Steel /pc.

FT Hot-dip galvanised

Mounting plate for fastening to motor connection column, type MAS 140/10.

Always indicate the item number when ordering.

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BKK basic profile, standard

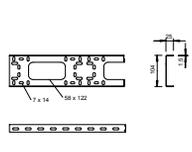
Type	Plate thickness mm	Dimension mm	Length mm	Pack. m	Weight kg/100 m	Item No.
BKK 104 FT	1.5	104 x 25	3000	3	134,340	**6070248**

St Steel

FT Hot-dip galvanised

/m

BKK basic profile, perforated, for creation of individual cable trays.





BKK basic profile, standard

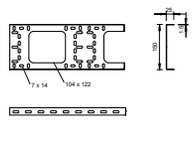
Type	Plate thickness mm	Dimension mm	Length mm	Pack. m	Weight kg/100 m	Item No.
BKK 150 FT	1.5	150 x 25	3000	3	160,000	**6070345**

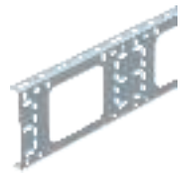
St Steel

FT Hot-dip galvanised

/m

BKK basic profile, perforated, for creation of individual cable trays.





BKK basic profile, standard

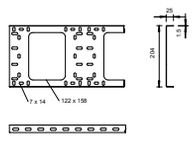
Type	Plate thickness mm	Dimension mm	Length mm	Pack. m	Weight kg/100 m	Item No.
BKK 200 FT	1.5	200 x 25	3000	3	212,000	**6070442**

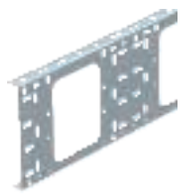
St Steel

FT Hot-dip galvanised

/m

BKK basic profile, perforated, for creation of individual cable trays.





Joint connector

Type	Plate thickness mm	Dimension mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SSV FT	2	23 x 23 x 100	25	8,700	**6066046**

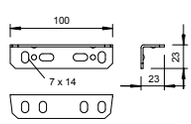
St Steel

FT Hot-dip galvanised

/pc.

Including appropriate fastening material.

Joint connector for horizontal connection of BKK basic profiles.





Adjustable connector

Type	Plate thickness mm	Dimension mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SV DD	2	86 x 23	50	3,300	**6066941**

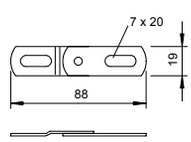
St Steel

DD Strip galvanised zinc/aluminium, Double Dip

/pc.

Including appropriate fastening material.

Adjustable connector for vertical bend connections of BKK systems.





Truss-head bolt

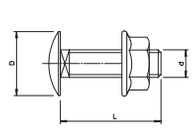
Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRSB 6X12 F	M 6 x 12	12	6	13.5	100	0,990	**6406122**
FRSB 6X15 F	M 6 x 15	15	6	13.5	100	0,800	**6406157**
FRSB 6X20 F	M 6 x 20	20	6	13.5	100	1,000	**6406203**

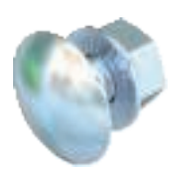
St Steel

F Hot-dip galvanised

/100 pc.

Truss-head bolt with square neck including flange nut.





Always indicate the item number when ordering.



Stainless steel systems

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Stainless steel systems

	Cable trays	538
	Mesh cable trays	568
	Cable ladders	583
	Wide span cable trays, wide span cable ladders	589
	Supports	600
	Vertical ladders	632
	AZ channel	639
	BKK basic profiles	645

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Cable tray RKS-Magic®



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
RKSM 610 VA4301	100	0.75	3	132,130	**6047613**
RKSM 615 VA4301	150	0.75	3	155,080	**6047632**
RKSM 620 VA4301	200	0.75	3	180,000	**6047640**
RKSM 630 VA4301	300	0.75	3	235,080	**6047656**
RKSM 640 VA4301	400	0.9	3	325,900	**6047691**
RKSM 650 VA4301	500	0.9	3	385,900	**6047721**
RKSM 660 VA4301	600	0.9	3	445,900	**6047737**
RKSM 610 VA4571	100	0.75	3	132,130	**6047614**
RKSM 615 VA4571	150	0.75	3	155,080	**6047633**
RKSM 620 VA4571	200	0.75	3	180,000	**6047641**
RKSM 630 VA4571	300	0.75	3	235,080	**6047657**
RKSM 640 VA4571	400	0.9	3	325,900	**6047692**
RKSM 650 VA4571	500	0.9	3	385,900	**6047722**
RKSM 660 VA4571	600	0.9	3	445,900	**6047738**

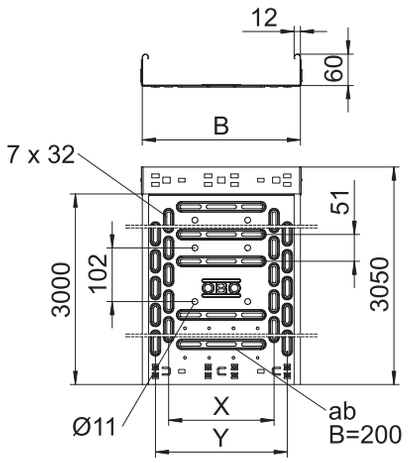
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /m

Cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation, with beaded straight base perforation, 7 x 20 mm, for bracket mounting and, from the width 200 mm, with 7 x 32 mm transverse beading for cable ventilation and simplified mounting. With 11 mm perforation for direct threaded rod suspension. Continuous side perforation, 7 x 20 mm, as connector perforation.
The stock length is 3,050 mm, the useful length when combined is 3,000 mm.
The spring element FED 60 can be ordered separately as a accessory part (spare) for the cable tray RKS-Magic with a side height of 60 mm under the article number 6068859.
The continuous equipotential bonding is guaranteed without additional components.

RKSM 60 = efficient magic cable tray system with 60 mm side height.

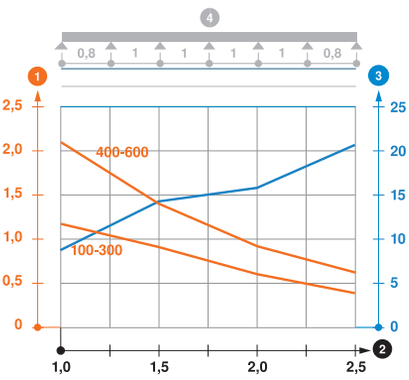
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Dimension B mm	Useful cross-section cm²	Dimension x mm	Dimension y mm
RKSM 610 VA4301	3050	100	58	—	50
RKSM 615 VA4301	3050	150	88	50	100
RKSM 620 VA4301	3050	200	118	100	150
RKSM 630 VA4301	3050	300	178	200	250
RKSM 640 VA4301	3050	400	238	300	350
RKSM 650 VA4301	3050	500	298	400	450
RKSM 660 VA4301	3050	600	358	450	550

Load



Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
RKSM 610 VA4301	1.2	0.9	0.6	0.4
RKSM 615 VA4301	1.2	0.9	0.6	0.4
RKSM 620 VA4301	1.2	0.9	0.6	0.4
RKSM 630 VA4301	1.2	0.9	0.6	0.4
RKSM 640 VA4301	2.1	1.35	0.9	0.6
RKSM 650 VA4301	2.1	1.35	0.9	0.6
RKSM 660 VA4301	2.1	1.35	0.9	0.6

Load diagram, cable tray, type RKSM 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

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Cable tray SKS-Magic®

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
SKSM 610 VA4301	100	1.5	3	249,180	**6059490**
SKSM 620 VA4301	200	1.5	3	331,470	**6059494**
SKSM 630 VA4301	300	1.5	3	387,540	**6059496**
SKSM 640 VA4301	400	1.5	3	443,940	**6059498**
SKSM 650 VA4301	500	1.5	3	500,660	**6059500**
SKSM 660 VA4301	600	1.5	3	556,720	**6059502**
SKSM 610 VA4571	100	1.5	3	253,340	**6059507**
SKSM 620 VA4571	200	1.5	3	331,470	**6059511**
SKSM 630 VA4571	300	1.5	3	387,540	**6059513**
SKSM 640 VA4571	400	1.5	3	443,930	**6059515**
SKSM 650 VA4571	500	1.5	3	509,000	**6059517**
SKSM 660 VA4571	600	1.5	3	556,720	**6059519**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /m

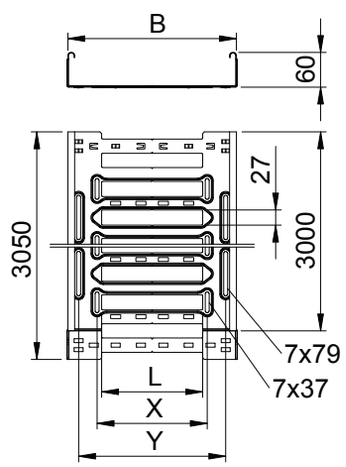


Cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation, with beaded straight base perforation, 7 x 79 mm, for bracket mounting. All widths with cross beading for stabilisation and duct ventilation. Continuous side perforation, 7 x 20 mm, as additional connector perforation. From a cable tray width of 200 mm, they are suitable for use under sprinkler systems according to VdS guideline 2092 permeable cable tray system with 30% hole surface.
The stock length is 3,050 mm, the useful length when combined is 3,000 mm.
The spring element FED 60 can be ordered separately as an accessory part (spare) for the Magic cable trays of side height 60 mm, 85 mm and 110 mm under the article number 6068859.
Continuous equipotential bonding is guaranteed without additional components. VDE-tested cable tray system.

SKSM 60 = heavy-duty Magic cable tray system with 60 mm side height.

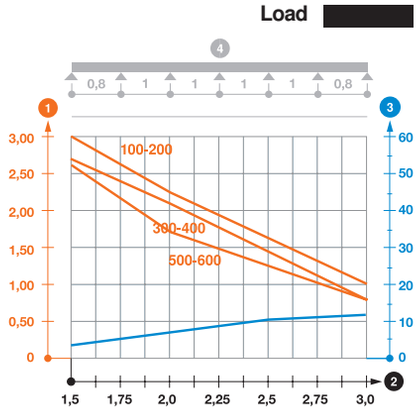
Dimensions

Type	Length mm	Dimension B mm	Useful cross-section cm²	Dimension x mm	Dimension y mm
SKSM 610 VA4301	3050	100	58	—	62
SKSM 620 VA4301	3050	200	118	96	162
SKSM 630 VA4301	3050	300	178	196	262
SKSM 640 VA4301	3050	400	238	296	362
SKSM 650 VA4301	3050	500	298	396	462
SKSM 660 VA4301	3050	600	358	496	562



Load

Type	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
SKSM 610 VA4301	3	2.25	1
SKSM 620 VA4301	3	2.25	1
SKSM 630 VA4301	2.7	2.1	0.8
SKSM 640 VA4301	2.7	2.1	0.8
SKSM 650 VA4301	1.9	1.55	0.8
SKSM 660 VA4301	1.9	1.55	0.8



Load diagram, cable tray, type SKSM 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

Cable tray MKS-Magic®, unperforated



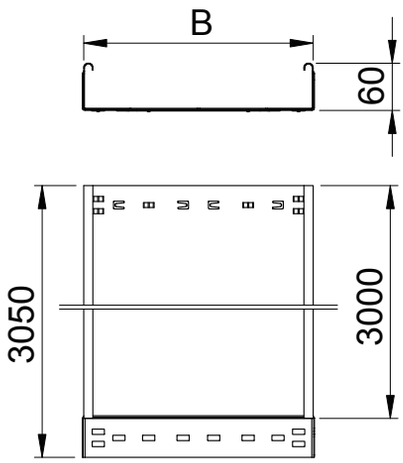
Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKSMU 610 VA4301	100	1	3	192,450	**6059265**
MKSMU 620 VA4301	200	1	3	271,150	**6059269**
MKSMU 630 VA4301	300	1	3	350,490	**6059271**
MKSMU 640 VA4301	400	1	3	429,500	**6059273**
MKSMU 650 VA4301	500	1	3	508,520	**6059275**
MKSMU 660 VA4301	600	1	3	587,200	**6059277**

V2A Stainless steel, grade 304 /m

Unperforated cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation.
The stock length is 3,050 mm, the useful length when combined is 3,000 mm.
The spring element FED 60 can be ordered separately as a accessory part (spare) for the Magic cable trays with a side height of 60 mm, 85 mm and 110 mm under the article number 6068859.
The continuous equipotential bonding is guaranteed without additional components. VDE-tested cable tray system.

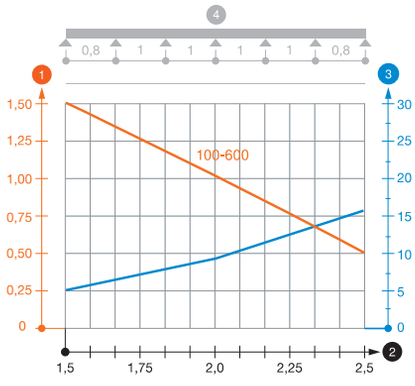
MKSMU 60 = Medium-duty Magic cable tray system, unperforated, with a side height of 60 mm.

Dimensions



Type	Length mm	Dimension B mm	Useful cross-section cm²
MKSMU 610 VA4301	3050	100	58
MKSMU 620 VA4301	3050	200	118
MKSMU 630 VA4301	3050	300	178
MKSMU 640 VA4301	3050	400	238
MKSMU 650 VA4301	3050	500	298
MKSMU 660 VA4301	3050	600	358

Load



Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSMU 610 VA4301	1.5	1	0.5
MKSMU 620 VA4301	1.5	1	0.5
MKSMU 630 VA4301	1.5	1	0.5
MKSMU 640 VA4301	1.5	1	0.5
MKSMU 650 VA4301	1.5	1	0.5
MKSMU 660 VA4301	1.5	1	0.5

Load diagram, cable tray, type MKSMU 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

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Cable tray SKS-Magic®, unperforated

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
SKSMU 610 VA4301	100	1.5	3	288,850	**6059722**
SKSMU 620 VA4301	200	1.5	3	407,210	**6059726**
SKSMU 630 VA4301	300	1.5	3	525,570	**6059728**
SKSMU 640 VA4301	400	1.5	3	644,260	**6059730**
SKSMU 650 VA4301	500	1.5	3	762,620	**6059732**
SKSMU 660 VA4301	600	1.5	3	881,000	**6059734**

V2A Stainless steel, grade 304 /m

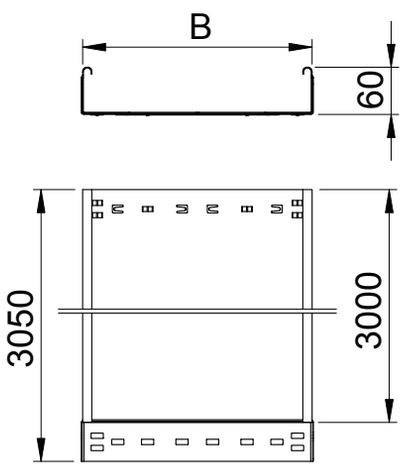


Unperforated cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation.
The stock length is 3,050 mm, the useful length when combined is 3,000 mm.
The spring element FED 60 can be ordered separately as a accessory part (spare) for the Magic cable trays with a side height of 60 mm, 85 mm and 110 mm under the article number 6068859.
The continuous equipotential bonding is guaranteed without additional components. VDE-tested cable tray system.

SKSMU 60 = Heavy-duty Magic cable tray system, unperforated, with 60 mm side height.

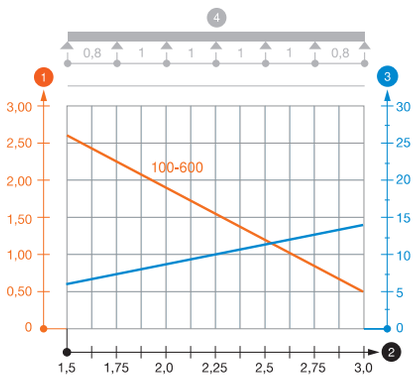
Dimensions

Type	Length mm	Dimension B mm	Useful cross-section cm²
SKSMU 610 VA4301	3050	100	58
SKSMU 620 VA4301	3050	200	118
SKSMU 630 VA4301	3050	300	178
SKSMU 640 VA4301	3050	400	238
SKSMU 650 VA4301	3050	500	298
SKSMU 660 VA4301	3050	600	358



Load

Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKSMU 610 VA4301	2.6	1.9	1.1	0.55
SKSMU 620 VA4301	2.6	1.9	1.1	0.55
SKSMU 630 VA4301	2.6	1.9	1.1	0.55
SKSMU 640 VA4301	2.6	1.9	1.1	0.55
SKSMU 650 VA4301	2.6	1.9	1.1	0.55
SKSMU 660 VA4301	2.6	1.9	1.1	0.55



Load diagram, cable tray, type SKSMU 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

Cable tray MKS



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKS 610 VA4301	100	1	3	173,700	**6056016**
MKS 620 VA4301	200	1	3	239,000	**6056024**
MKS 630 VA4301	300	1	3	305,000	**6056040**
MKS 640 VA4301	400	1	3	403,330	**6056059**
MKS 650 VA4301	500	1	3	435,000	**6056075**
MKS 660 VA4301	600	1	3	500,000	**6056083**

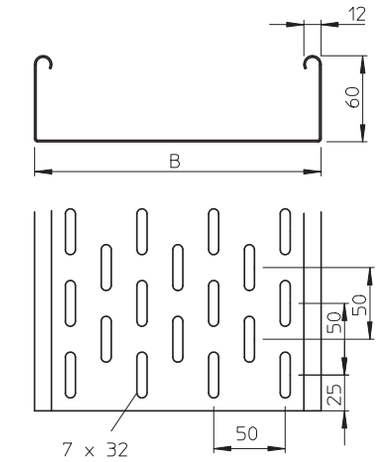
V2A Stainless steel, grade 304 /m

Connecting parts should be ordered in the appropriate quantity.

MKS 60 = Medium-duty cable tray system with a side height of 60 mm.

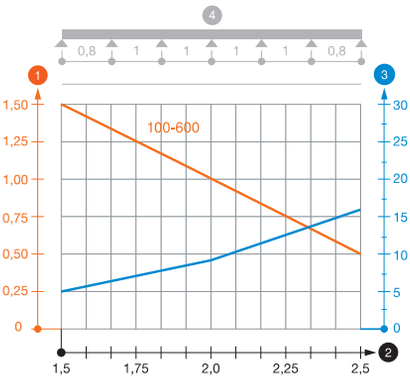
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Dimension B mm	Useful cross-section cm²
MKS 610 VA4301	3000	100	58
MKS 620 VA4301	3000	200	118
MKS 630 VA4301	3000	300	178
MKS 640 VA4301	3000	400	238
MKS 650 VA4301	3000	500	298
MKS 660 VA4301	3000	600	358

Load



Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKS 610 VA4301	1.5	1	0.5
MKS 620 VA4301	1.5	1	0.5
MKS 630 VA4301	1.5	1	0.5
MKS 640 VA4301	1.5	1	0.5
MKS 650 VA4301	1.5	1	0.5
MKS 660 VA4301	1.5	1	0.5

Load diagram, cable tray MKS 60 VA

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Cable tray MKSU

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKSU 610 VA4301	100	0.8	3	154,000	**6063772**
MKSU 620 VA4301	200	0.8	3	217,000	**6063780**
MKSU 630 VA4301	300	0.8	3	280,000	**6063799**
MKSU 640 VA4301	400	1	3	428,340	**6063845**
MKSU 650 VA4301	500	1	3	506,000	**6063861**
MKSU 660 VA4301	600	1	3	584,000	**6063888**

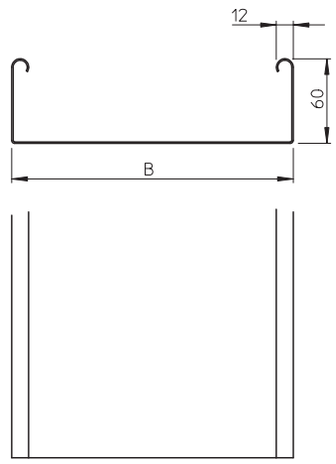
V2A Stainless steel, grade 304 /m

The cable tray has connector perforations on both sides.
Connecting parts should be ordered separately and in the appropriate quantity.
MKSU 60 = Medium-duty cable tray system, unperforated, with a side height of 60 mm.
Magnetic shield insulation without cover 20 dB, with cover 50 dB.



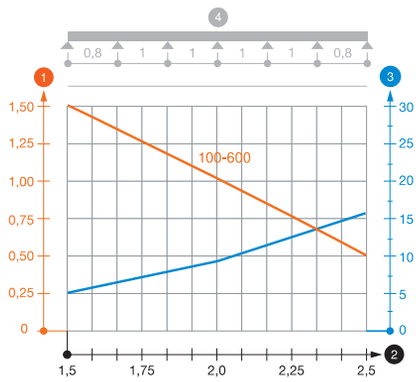
Dimensions

Type	Length mm	Dimension B mm	Useful cross-section cm²
MKSU 610 VA4301	3000	100	58
MKSU 620 VA4301	3000	200	118
MKSU 630 VA4301	3000	300	178
MKSU 640 VA4301	3000	400	238
MKSU 650 VA4301	3000	500	298
MKSU 660 VA4301	3000	600	358



Load

Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSU 610 VA4301	1.5	1	0.5
MKSU 620 VA4301	1.5	1	0.5
MKSU 630 VA4301	1.5	1	0.5
MKSU 640 VA4301	1.5	1	0.5
MKSU 650 VA4301	1.5	1	0.5
MKSU 660 VA4301	1.5	1	0.5



Load diagram, cable tray MKSU 60 VA

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

Cable tray SKS



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
SKS 610 VA4301	100	1.5	3	263,300	**6056735**
SKS 620 VA4301	200	1.5	3	356,670	**6056737**
SKS 630 VA4301	300	1.5	3	466,700	**6056739**
SKS 640 VA4301	400	1.5	3	566,700	**6056742**
SKS 650 VA4301	500	1.5	3	666,700	**6056744**
SKS 660 VA4301	600	1.5	3	766,700	**6056746**
SKS 610 VA4571	100	1.5	3	263,300	**6056750**
SKS 620 VA4571	200	1.5	3	356,670	**6056755**
SKS 630 VA4571	300	1.5	3	466,700	**6056757**
SKS 640 VA4571	400	1.5	3	566,700	**6056759**
SKS 650 VA4571	500	1.5	3	666,700	**6056761**
SKS 660 VA4571	600	1.5	3	766,700	**6056763**

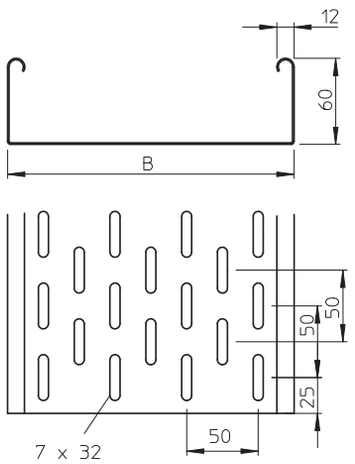
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /m

Connecting parts should be ordered in the appropriate quantity.

SKS 60 = Heavy-duty cable tray system with 60 mm side height.

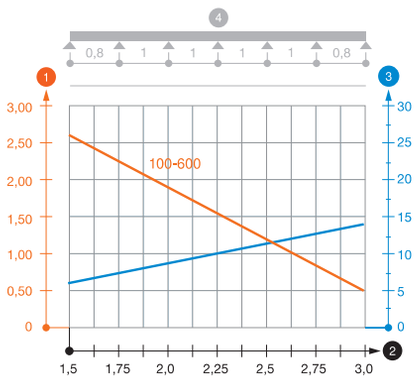
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Dimension B mm	Useful cross-section cm²
SKS 610 VA4301	3000	100	58
SKS 620 VA4301	3000	200	118
SKS 630 VA4301	3000	300	178
SKS 640 VA4301	3000	400	238
SKS 650 VA4301	3000	500	298
SKS 660 VA4301	3000	600	358

Load



Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKS 610 VA4301	2.65	1.8	1.15	0.5
SKS 620 VA4301	2.65	1.8	1.15	0.5
SKS 630 VA4301	2.65	1.8	1.15	0.5
SKS 640 VA4301	2.65	1.8	1.15	0.5
SKS 650 VA4301	2.65	1.8	1.15	0.5
SKS 660 VA4301	2.65	1.8	1.15	0.5

Load diagram, cable tray, type SKS 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

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Cable tray DKS

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
DKS 610 VA4571	100	0.8	3	129,000	**6085668**
DKS 620 VA4571	200	0.8	3	174,340	**6085672**
DKS 630 VA4571	300	1	3	216,670	**6085673**
DKS 640 VA4571	400	1	3	329,340	**6085675**

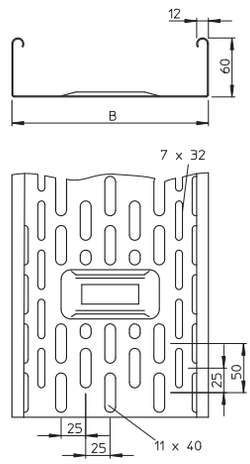
V4A Stainless steel, grade 316 Ti /m

Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.
Bottom penetration from width 200 mm.
Connecting parts should be ordered in the appropriate quantity.
DKS 60 = perforated cable tray system with 60 mm side height.
Magnetic shield insulation without cover 20 dB, with cover 50 dB.



Dimensions

Type	Length mm	Dimension B mm	Useful cross-section cm²
DKS 610 VA4571	3000	100	58
DKS 620 VA4571	3000	200	118
DKS 630 VA4571	3000	300	178
DKS 640 VA4571	3000	400	238



Load

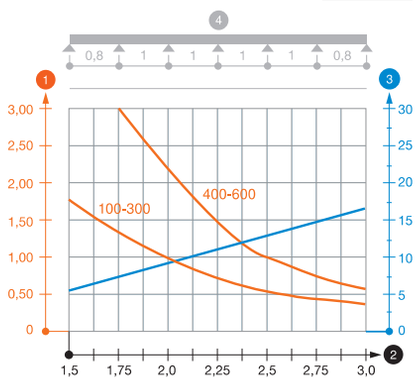
Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
DKS 610 VA4571	1	0.5	0.35
DKS 620 VA4571	1	0.5	0.5
DKS 630 VA4571	1	0.5	0.35
DKS 640 VA4571	1.1	0.75	0.45

Load diagram, cable tray DKS 60 VA

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

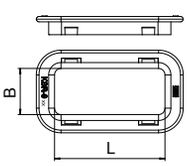


Cable protection ring

Type	Colour	for perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-910 PE	Light grey	20 x 58	25	0,470	**6066712**

PE Polyethylene /pc.

Cable protection ring for bottom perforation in cable trays of type IKS and for side perforation in AZ channels and luminaire support channel.

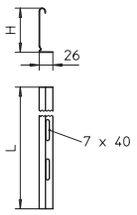




Always indicate the item number when ordering.

Barrier strip





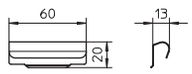
Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 60 VA4301	60	3000	3	55,000	**6062084**
TSG 60 VA4571	60	3000	3	56,670	**6062086**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /m

Barrier strip for separation of cables of different voltages or functions.

Barrier strip connector





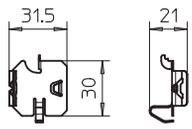
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**
TSGV VA4310	10	1,000	**6067970**

V2A Stainless steel, grade 301 /pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.

Hold-down clamp for barrier strip fastening in RKSM





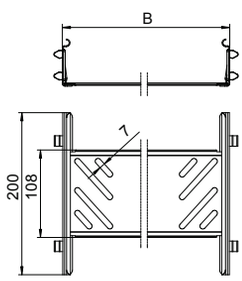
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KR VA4310	30	0,580	**6062280**

V2A Stainless steel, grade 301 /100 pc.

Hold-down clamp for screwless fastening of barrier strips in the cable tray types RKSM, MKS and SKS.

Magic straight connector set





Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KTSMV 610 VA4301	60	100	1	30,500	**6068958**
KTSMV 615 VA4301	60	150	1	34,900	**6068960**
KTSMV 620 VA4301	60	200	1	37,200	**6068962**
KTSMV 630 VA4301	60	300	1	44,000	**6068964**
KTSMV 640 VA4301	60	400	1	50,700	**6068966**
KTSMV 650 VA4301	60	500	1	57,400	**6068968**
KTSMV 660 VA4301	60	600	1	64,200	**6068970**
KTSMV 610 VA4571	60	100	1	30,500	**6068980**
KTSMV 615 VA4571	60	150	1	34,900	**6068982**
KTSMV 620 VA4571	60	200	1	37,200	**6068984**
KTSMV 630 VA4571	60	300	1	44,000	**6068986**
KTSMV 640 VA4571	60	400	1	50,700	**6068988**
KTSMV 650 VA4571	60	500	1	57,400	**6068990**
KTSMV 660 VA4571	60	600	1	64,200	**6068992**

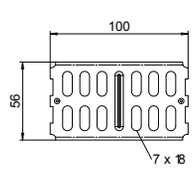
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 60 mm.

Straight connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RLVK 60 VA4301	60	10	8,800	**6067654**
RLVK 60 VA4571	60	10	9,000	**6067675**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

Including appropriate fastening material.

Straight connector for straight connection of cable trays and fittings with a side height of 60 mm.

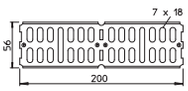
Always indicate the item number when ordering.

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Straight and angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWVL 60 VA4301	60	10	17,500	**6067662**
RWVL 60 VA4571	60	10	17,500	**6067664**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.





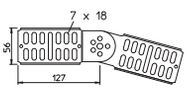
Including appropriate fastening material.

Straight and angle connector for cable trays and fittings with a side height of 60 mm.

Adjustable connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGV 60 VA4301	60	10	25,000	**7082258**
RGV 60 VA4571	60	10	25,000	**7082265**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.





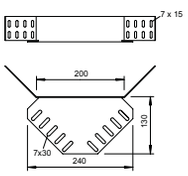
Including appropriate fastening material.

Adjustable connector for cable trays with a side height of 60 mm.

Corner connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
REV 60 VA4301	60	5	32,500	**6068022**
REV 60 VA4571	60	5	32,500	**6068054**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.





Fastening materials should be ordered separately.

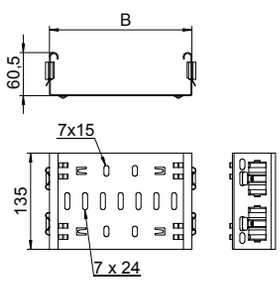
Corner connector for cable trays with side height 60 mm.

Magic straight connector

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FVM 610 VA 4301	100	1	31,900	**6065730**
FVM 615 VA 4301	150	1	37,900	**6065732**
FVM 620 VA 4301	200	1	44,000	**6065734**
FVM 630 VA 4301	300	1	57,000	**6065736**
FVM 640 VA 4301	400	1	69,400	**6065738**
FVM 650 VA 4301	500	1	82,000	**6065740**
FVM 660 VA 4301	600	1	94,600	**6065742**
FVM 610 VA 4571	100	1	31,900	**6065750**
FVM 615 VA 4571	150	1	37,900	**6065752**
FVM 620 VA 4571	200	1	44,000	**6065754**
FVM 630 VA 4571	300	1	57,000	**6065756**
FVM 640 VA 4571	400	1	69,400	**6065758**
FVM 650 VA 4571	500	1	82,000	**6065760**
FVM 660 VA 4571	600	1	94,600	**6065762**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.





The fitting connect is compatible with cable tray types MKSM, MKSMU, SKSM and SKSMU.

Magic straight connector for direct and screwless joining of Magic fittings with a side height of 60 mm.
The straight connector is equipped with four brackets and can also be used for the direct connection with a cut cable tray with only two brackets mounted to one side. To join a cut cable tray with a fitting, an additional Magic straight connector set is needed.

Always indicate the item number when ordering.

Reducer / stop-end

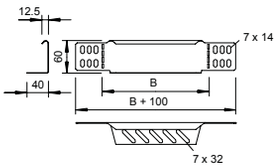


Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWEB 610 VA4301	60	100	1	9,000	**7109814**
RWEB 615 VA4301	60	150	1	13,400	**7109816**
RWEB 620 VA4301	60	200	1	18,000	**7109830**
RWEB 630 VA4301	60	300	1	26,000	**7109857**
RWEB 640 VA4301	60	400	1	34,000	**7109873**
RWEB 650 VA4301	60	500	1	42,000	**7109903**
RWEB 660 VA4301	60	600	1	49,000	**7109938**

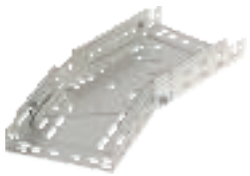
V2A Stainless steel, grade 304 /pc.

From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

Reducer and end closure plate for cable trays with side height 60 mm.



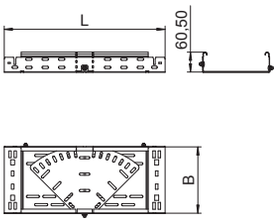
Magic bend, variable



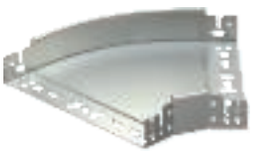
Type	Dim. L mm	Width mm	Dim. L mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBMV 610 VA 4301	340	100	340	1	1	75,900	**6040520**
RBMV 620 VA 4301	490	200	490	1	1	163,200	**6040524**
RBMV 630 VA 4301	640	300	640	1.25	1	386,300	**6040526**
RBMV 640 VA 4301	820	400	820	1.25	1	619,600	**6040528**
RBMV 650 VA 4301	960	500	960	1.5	1	985,300	**6040530**
RBMV 660 VA 4301	1120	600	1120	1.5	1	1.346,600	**6040532**
RBMV 610 VA 4571	340	100	340	1	1	75,900	**6040540**
RBMV 615 VA 4571	420	150	420	1	1	117,000	**6040542**
RBMV 620 VA 4571	490	200	490	1	1	163,200	**6040544**
RBMV 630 VA 4571	640	300	640	1.25	1	360,200	**6040546**
RBMV 640 VA 4571	820	400	820	1.25	1	619,600	**6040548**
RBMV 650 VA 4571	960	500	960	1.5	1	985,300	**6040550**
RBMV 660 VA 4571	1120	600	1120	1.5	1	1.346,600	**6040552**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

Magic bend 0°–90°, variable, with quick connector system. For all cable tray types of 60 mm side height.



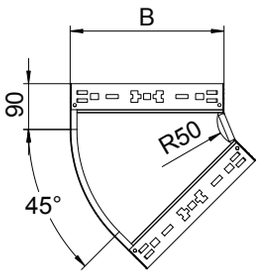
45° Magic bend



Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBM 45 610VA4301	100	1	50,400	**6041080**
RBM 45 615VA4301	150	1	67,300	**6041082**
RBM 45 620VA4301	200	1	86,000	**6041084**
RBM 45 630VA4301	300	1	128,300	**6041086**
RBM 45 640VA4301	400	1	174,800	**6041088**
RBM 45 660VA4301	600	1	298,300	**6041092**

V2A Stainless steel, grade 304 /pc.

45° bend with quick connector system. For all cable tray types of 60 mm side height.



Always indicate the item number when ordering.

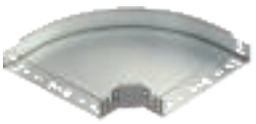
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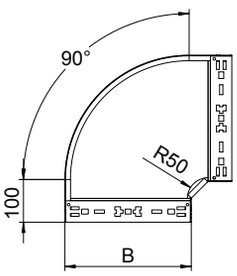
90° Magic bend

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBM 90 610VA4301	100	1	65,700	**6041180**
RBM 90 615VA4301	150	1	92,000	**6041182**
RBM 90 620VA4301	200	1	122,100	**6041184**
RBM 90 630VA4301	300	1	192,800	**6041186**
RBM 90 640VA4301	400	1	275,400	**6041188**
RBM 90 650VA4301	500	1	377,200	**6041190**
RBM 90 660VA4301	600	1	494,300	**6041192**
RBM 90 610VA4571	100	1	65,700	**6041200**
RBM 90 615VA4571	150	1	92,000	**6041202**
RBM 90 620VA4571	200	1	122,100	**6041204**
RBM 90 630VA4571	300	1	192,800	**6041206**
RBM 90 640VA4571	400	1	275,400	**6041208**
RBM 90 650VA4571	500	1	377,200	**6041210**
RBM 90 660VA4571	600	1	494,300	**6041212**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

90° bend with quick connector system. For all cable tray types of 60 mm side height.





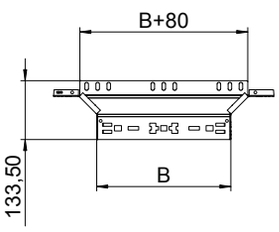
Magic add-on tee

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RAAM 610 VA4301	100	1	37,900	**6041270**
RAAM 615 VA4301	150	1	44,300	**6041271**
RAAM 620 VA4301	200	1	50,600	**6041275**
RAAM 630 VA4301	300	1	63,500	**6041277**
RAAM 640 VA4301	400	1	76,500	**6041279**
RAAM 650 VA4301	500	1	89,300	**6041282**
RAAM 660 VA4301	600	1	102,700	**6041284**
RAAM 610 VA4571	100	1	37,900	**6041290**
RAAM 620 VA4571	200	1	50,600	**6041294**
RAAM 630 VA4571	300	1	63,500	**6041296**
RAAM 640 VA4571	400	1	76,500	**6041298**
RAAM 650 VA4571	500	1	89,300	**6041300**
RAAM 660 VA4571	600	1	102,700	**6041303**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

Add-on tee with quick connector system. For all cable tray types of 60 mm side height.



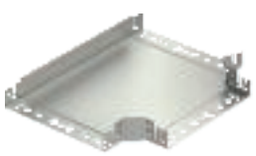


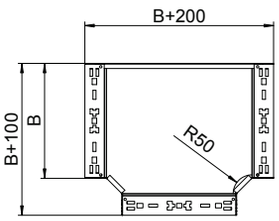
Magic tee

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RTM 610 VA4301	100	1	83,600	**6041360**
RTM 620 VA4301	200	1	150,600	**6041365**
RTM 630 VA4301	300	1	235,700	**6041367**
RTM 640 VA4301	400	1	335,600	**6041369**
RTM 650 VA4301	500	1	460,500	**6041371**
RTM 660 VA4301	600	1	605,000	**6041373**
RTM 610 VA4571	100	1	83,600	**6041380**
RTM 620 VA4571	200	1	150,600	**6041384**
RTM 630 VA4571	300	1	235,700	**6041386**
RTM 640 VA4571	400	1	335,600	**6041388**
RTM 650 VA4571	500	1	460,500	**6041390**
RTM 660 VA4571	600	1	605,000	**6041392**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

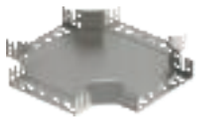
Magic tee with quick connector system. For all cable tray types of 60 mm side height.

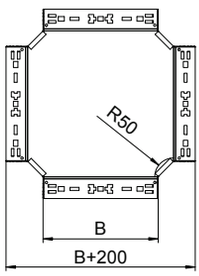




Always indicate the item number when ordering.

Magic cross-over



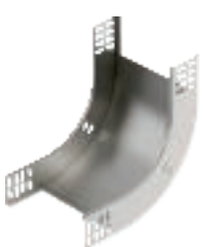


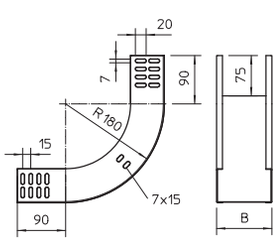
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RKM 610 VA4301	100	1	93,200	**7027041**
RKM 620 VA4301	200	1	168,000	**7027045**
RKM 630 VA4301	300	1	246,100	**7027047**
RKM 640 VA4301	400	1	343,400	**7027049**
RKM 650 VA4301	500	1	468,300	**7027051**
RKM 660 VA4301	600	1	612,800	**7027053**
RKM 610 VA4571	100	1	93,200	**7027061**
RKM 620 VA4571	200	1	168,000	**7027065**
RKM 630 VA4571	300	1	246,100	**7027067**
RKM 640 VA4571	400	1	343,400	**7027069**
RKM 650 VA4571	500	1	468,300	**7027071**
RKM 660 VA4571	600	1	612,800	**7027073**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

Cross-over with quick connector system. For all cable tray types of 60 mm side height.

90° vertical bend, rising





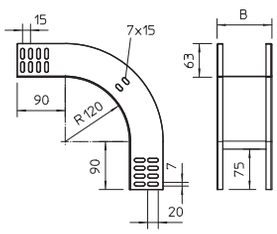
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 610 S VA4301	100	1	66,000	**7007105**
RBV 615 S VA4301	150	1	84,000	**7007107**
RBV 620 S VA4301	200	1	109,000	**7007109**
RBV 630 S VA4301	300	1	145,000	**7007113**
RBV 640 S VA4301	400	1	181,000	**7007117**
RBV 650 S VA4301	500	1	216,000	**7007119**
RBV 660 S VA4301	600	1	252,000	**7007121**
RBV 610 S VA4571	100	1	73,000	**7006720**
RBV 620 S VA4571	200	1	105,000	**7006724**
RBV 630 S VA4571	300	1	145,000	**7006728**
RBV 640 S VA4571	400	1	181,000	**7006732**
RBV 650 S VA4571	500	1	216,000	**7006736**
RBV 660 S VA4571	600	1	252,000	**7006740**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.
90° rising vertical bend, for all cable tray types of 60 mm side height.

90° vertical bend, falling





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 610 F VA4301	100	1	61,000	**7007155**
RBV 615 F VA4301	150	1	73,000	**7007156**
RBV 620 F VA4301	200	1	84,000	**7007157**
RBV 630 F VA4301	300	1	107,000	**7007159**
RBV 640 F VA4301	400	1	130,000	**7007161**
RBV 650 F VA4301	500	1	153,000	**7007163**
RBV 660 F VA4301	600	1	176,000	**7007165**
RBV 610 F VA4571	100	1	61,000	**7006750**
RBV 620 F VA4571	200	1	84,000	**7006754**
RBV 630 F VA4571	300	1	107,000	**7006758**
RBV 640 F VA4571	400	1	130,000	**7006762**
RBV 650 F VA4571	500	1	153,000	**7006766**
RBV 660 F VA4571	600	1	176,000	**7006770**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.
90° vertical bend, falling, for all cable tray types of 60 mm side height.

Always indicate the item number when ordering.

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90° adjustable vertical bend

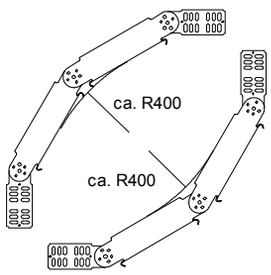
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGBV 610 VA4301	100	1	172,000	**7138113**
RGBV 620 VA4301	200	1	218,000	**7138121**
RGBV 630 VA4301	300	1	265,000	**7138148**
RGBV 640 VA4301	400	1	311,000	**7138156**
RGBV 650 VA4301	500	1	394,500	**7138164**
RGBV 660 VA4301	600	1	430,000	**7138172**

V2A Stainless steel, grade 304 /pc.

The bend is shipped in an unmounted state. No additional fastening materials are required.

90° adjustable vertical bend, for all cable tray types with a side height of 60 mm.





45° bend 100–300

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB45 610 VA4301	100	1	45,000	**7133107**
RB45 620 VA4301	200	1	70,000	**7133120**
RB45 630 VA4301	300	1	100,000	**7133142**
RB45 610 VA4571	100	1	45,000	**7133261**
RB45 620 VA4571	200	1	70,000	**7133263**
RB45 630 VA4571	300	1	100,000	**7133265**

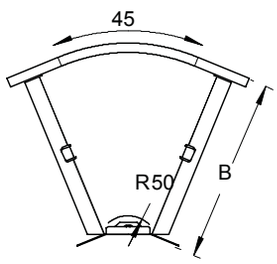
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

GB pickled

The fitting is shipped in an unmounted state. The WKV 60 angle connector is designed for 90° bends and can be adjusted to 45° on site.
Including appropriate fastening material.

45° bend, horizontal, for all cable tray types of 60 mm side height.





45° bend 400–600

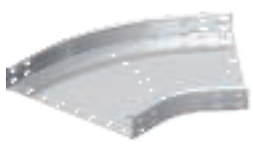
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBU 45 640VA4301	400	1	250,000	**7133235**
RBU 45 650VA4301	500	1	350,000	**7133243**
RBU 45 660VA4301	600	1	465,000	**7133251**
RBU 45 640VA4571	400	1	250,000	**7133271**
RBU 45 650VA4571	500	1	350,000	**7133273**
RBU 45 660VA4571	600	1	465,000	**7133275**

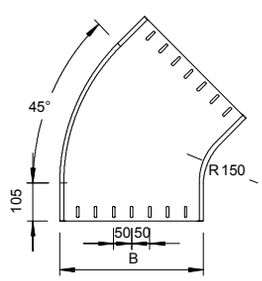
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

GB pickled

Fitting, unperforated, in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

45° bend, horizontal and unperforated, for all cable tray types of 60 mm side height.





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Always indicate the item number when ordering.

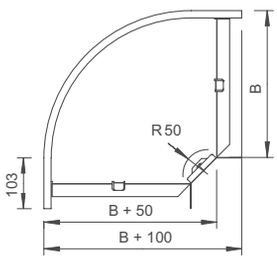
90° bend 100–300



Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB90 610 VA4301	100	1	125,000	**7134122**
RB90 620 VA4301	200	1	110,000	**7134130**
RB90 630 VA4301	300	1	165,000	**7134138**
RB90 610 VA4571	100	1	125,000	**7134286**
RB90 620 VA4571	200	1	110,000	**7134288**
RB90 630 VA4571	300	1	165,000	**7134290**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

GB pickled



The fitting is shipped in an unmounted state.
Including appropriate fastening material.

90° bend, horizontal, for all cable tray types of 60 mm side height.
The 100 mm width has a rectangle shape and does not correspond to the image.

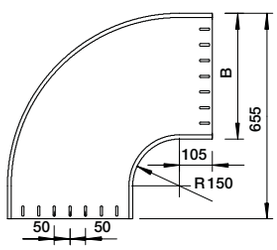
90° bend 400–600



Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBU 90 640VA4301	400	1	465,000	**7134231**
RBU 90 650VA4301	500	1	610,000	**7134258**
RBU 90 660VA4301	600	1	770,000	**7134266**
RBU 90 640VA4571	400	1	465,000	**7134292**
RBU 90 650VA4571	500	1	610,000	**7134294**
RBU 90 660VA4571	600	1	770,000	**7134296**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

GB pickled



Fitting, unperforated, in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

90° bend, horizontal and unperforated, for all cable tray types of 60 mm side height.

Add-on tee 100–300

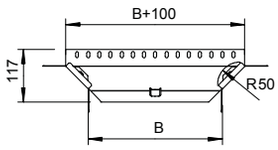


Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RAA 610 VA4301	100	1	43,000	**7136120**
RAA 620 VA4301	200	1	40,000	**7136133**
RAA 630 VA4301	300	1	50,000	**7136141**
RAA 610 VA4571	100	1	43,000	**7136122**
RAA 630 VA4571	200	1	50,000	**7136143**
RAA 620 VA4571	300	1	40,000	**7136135**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

The fitting is shipped in an unmounted state.
Including appropriate fastening material.

Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height.



Always indicate the item number when ordering.

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Add-on tee 400–600

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RAAU 640 VA4301	400	1	220,000	**7136242**
RAAU 650 VA4301	500	1	255,000	**7136250**
RAAU 660 VA4301	600	1	285,000	**7136269**
RAAU 640 VA4571	400	1	220,000	**7136244**
RAAU 650 VA4571	500	1	255,000	**7136252**
RAAU 660 VA4571	600	1	285,000	**7136271**

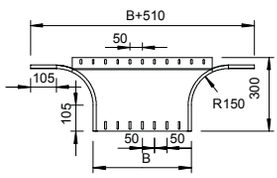
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

GB pickled



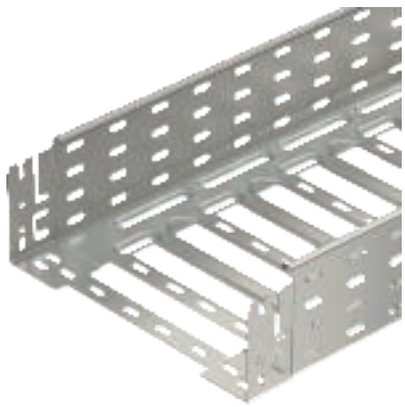
Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

Add-on tee, unperforated, for horizontal and vertical use. For all cable tray types of 60 mm side height.



Always indicate the item number when ordering.

Cable tray MKS-Magic®



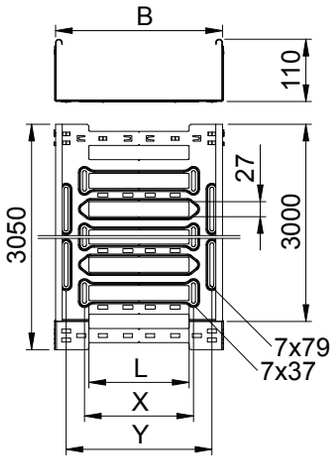
Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKSM 110 VA4301	100	1	3	236,720	**6059190**
MKSM 120 VA4301	200	1	3	291,800	**6059194**
MKSM 130 VA4301	300	1	3	329,180	**6059196**
MKSM 140 VA4301	400	1	3	366,890	**6059198**
MKSM 150 VA4301	500	1	3	404,590	**6059200**
MKSM 160 VA4301	600	1	3	441,970	**6059202**

V2A Stainless steel, grade 304 /m

Cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation, with beaded straight base perforation, 7 x 79 mm, for bracket mounting. All widths with cross beading for stabilisation and duct ventilation. Continuous side perforation, 7 x 20 mm, as additional connector perforation. From a cable tray width of 200 mm, they are suitable for use under sprinkler systems according to VdS guideline 2092 permeable cable tray system with 30% hole surface. The stock length is 3,050 mm, the useful length when combined is 3,000 mm.
The spring element FED 60 can be ordered separately as an accessory part (spare) for the Magic cable trays of side height 60 mm, 85 mm and 110 mm under the article number 6068859. Continuous equipotential bonding is guaranteed without additional components. VDE-tested cable tray system.

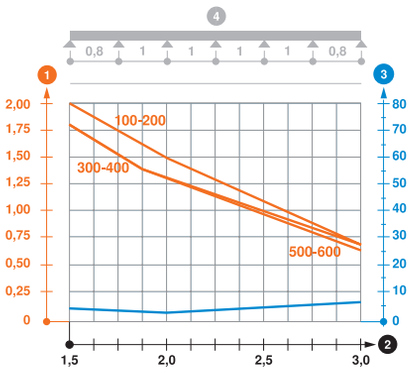
MKSM 110 = medium-duty Magic cable tray system with a side height of 110 mm.

Dimensions



Type	Length mm	Dimension B mm	Useful cross-section cm²	Dim. L mm	Dimension x mm	Dimension y mm
MKSM 110 VA4301	3050	100	108	30	—	62
MKSM 120 VA4301	3050	200	218	80	96	162
MKSM 130 VA4301	3050	300	328	180	196	262
MKSM 140 VA4301	3050	400	438	280	296	362
MKSM 150 VA4301	3050	500	548	380	396	462
MKSM 160 VA4301	3050	600	655	480	496	562

Load



Type	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
MKSM 110 VA4301	2	1.5	0.7
MKSM 120 VA4301	2	1.5	0.7
MKSM 130 VA4301	1.45	1.2	0.7
MKSM 140 VA4301	1.45	1.2	0.7
MKSM 150 VA4301	1.1	0.95	0.65
MKSM 160 VA4301	1.1	0.95	0.65

Load diagram, cable tray, type MKSM 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

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Cable tray MKS-Magic®, unperforated

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKSMU 110 VA4301	100	1	3	271,150	**6059416**
MKSMU 120 VA4301	200	1	3	350,160	**6059420**
MKSMU 130 VA4301	300	1	3	428,900	**6059422**
MKSMU 140 VA4301	400	1	3	507,860	**6059424**
MKSMU 150 VA4301	500	1	3	586,880	**6059426**
MKSMU 160 VA4301	600	1	3	665,900	**6059428**

V2A Stainless steel, grade 304 /m

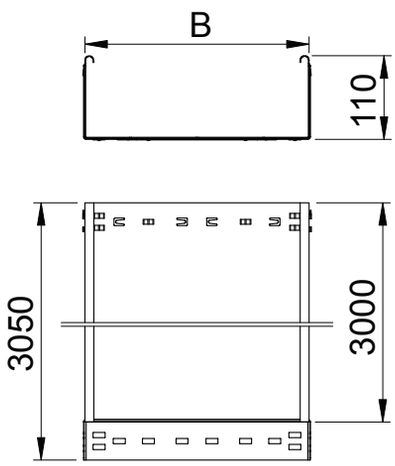


Unperforated cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation.
The stock length is 3,050 mm, the useful length when combined is 3,000 mm.
The spring element FED 60 can be ordered separately as a accessory part (spare) for the Magic cable trays with a side height of 60 mm, 85 mm and 110 mm under the article number 6068859.
The continuous equipotential bonding is guaranteed without additional components. VDE-tested cable tray system.

MKSMU 110 = Medium duty Magic cable tray system, unperforated, with a side height of 110 mm.

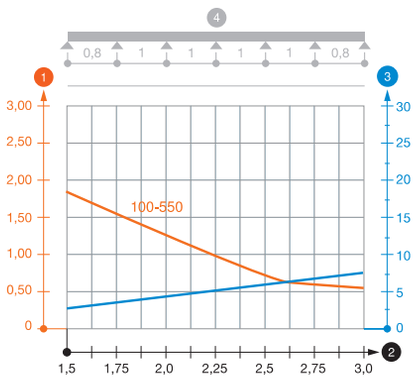
Dimensions

Type	Length mm	Dimension B mm	Useful cross-section cm²
MKSMU 110 VA4301	3050	100	108
MKSMU 120 VA4301	3050	200	218
MKSMU 130 VA4301	3050	300	328
MKSMU 140 VA4301	3050	400	438
MKSMU 150 VA4301	3050	500	548
MKSMU 160 VA4301	3050	600	655



Load

Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
MKSMU 110 VA4301	1.85	1.3	0.75	0.6
MKSMU 120 VA4301	1.85	1.3	0.75	0.6
MKSMU 130 VA4301	1.85	1.3	0.75	0.6
MKSMU 140 VA4301	1.85	1.3	0.75	0.6
MKSMU 150 VA4301	1.85	1.3	0.75	0.6
MKSMU 160 VA4301	1.85	1.3	0.75	0.6



Load diagram, cable tray, type MKSMU 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

Cable tray MKS

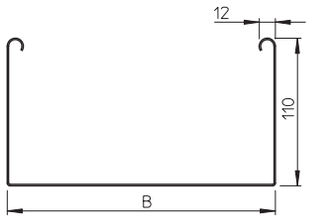


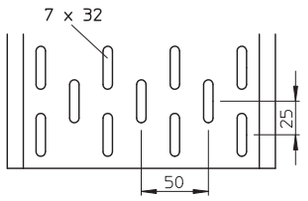
Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKS 110 VA4301	100	1	3	243,000	**6060803**
MKS 120 VA4301	200	1	3	335,000	**6060811**
MKS 130 VA4301	300	1	3	407,000	**6060838**
MKS 140 VA4301	400	1	3	440,340	**6060846**

V2A Stainless steel, grade 304 /m

The cable tray is fastened to the bracket with bolts, type FRS M6 x 12.
MKS 110 = medium-duty cable tray system with a side height of 110 mm.
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

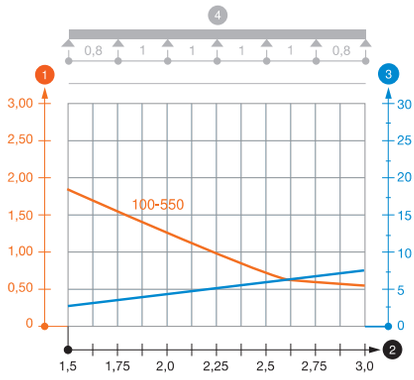
Dimensions





Type	Length mm	Dimension B mm	Useful cross-section cm²
MKS 110 VA4301	3000	100	110
MKS 120 VA4301	3000	200	220
MKS 130 VA4301	3000	300	330
MKS 140 VA4301	3000	400	440

Load



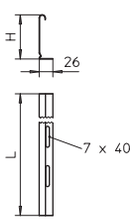
Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
MKS 110 VA4301	1.85	1.3	0.75	0.6
MKS 120 VA4301	1.85	1.3	0.75	0.6
MKS 130 VA4301	1.85	1.3	0.75	0.6
MKS 140 VA4301	1.85	1.3	0.75	0.6

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Barrier strip 85 mm





Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 85 VA4301	85	3000	3	69,670	**6062173**

V2A Stainless steel, grade 304 /m

Barrier strip for separation of cables of different voltages or functions.

Always indicate the item number when ordering.

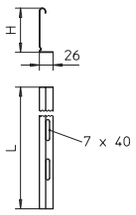
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Barrier strip 110 mm

Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 110 VA4301	110	3000	3	84,340	**6062255**

V2A Stainless steel, grade 304 /m

Barrier strip for separation of cables of different voltages or functions.



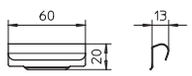


Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**

V2A Stainless steel, grade 301 /pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.





Magic straight connector set

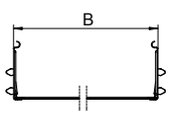
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KTSMV 110 VA4301	100	1	44,100	**6069134**
KTSMV 120 VA4301	200	1	50,800	**6069138**
KTSMV 130 VA4301	300	1	57,600	**6069140**
KTSMV 140 VA4301	400	1	64,300	**6069142**
KTSMV 150 VA4301	500	1	71,000	**6069144**
KTSMV 160 VA4301	600	1	77,800	**6069146**

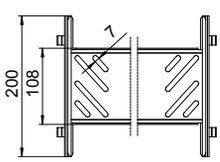
V2A Stainless steel, grade 304 /pc.

The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 110 mm.





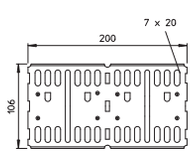


Straight connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RLVL 110 VA4301	110	10	28,000	**6067948**

V2A Stainless steel, grade 304 /pc.

Straight and angle connector for cable trays and fittings with a side height of 110 mm.



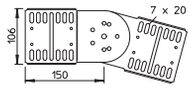


Adjustable connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGV 110 VA4301	110	4	64,000	**7082479**

V2A Stainless steel, grade 304 /pc.

Adjustable connector for cable trays with a side height of 110 mm.

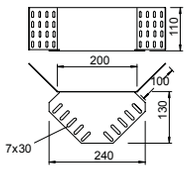




Always indicate the item number when ordering.

Corner connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
REV 110 VA4301	110	5	75,000	**6068049**

V2A Stainless steel, grade 304 /pc.

Corner connector for cable trays with side height 110 mm.

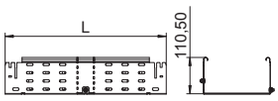
Magic bend, variable

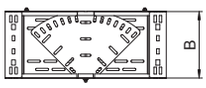


Type	Dim. L mm	Width mm	Dim. L mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBMV 110 VA 4301	340	100	340	1	1	107,800	**6040720**
RBMV 120 VA 4301	490	200	490	1	1	209,200	**6040724**
RBMV 130 VA 4301	640	300	640	1.25	1	442,400	**6040726**
RBMV 140 VA 4301	820	400	820	1.25	1	684,000	**6040728**
RBMV 150 VA 4301	960	500	960	1.5	1	1.134,000	**6040730**
RBMV 160 VA 4301	1120	600	1120	1.5	1	1.522,400	**6040732**

V2A Stainless steel, grade 304 /pc.

Magic bend 0°-90°, variable, with quick connector system. For all cable tray types of 110 mm side height.





Magic straight connector

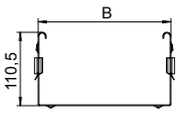


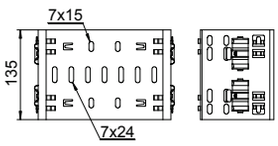
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FVM 110 VA 4301	100	1	42,900	**6065930**
FVM 120 VA 4301	200	1	55,000	**6065934**
FVM 130 VA 4301	300	1	67,700	**6065936**
FVM 140 VA 4301	400	1	80,400	**6065938**
FVM 150 VA 4301	500	1	92,400	**6065940**
FVM 160 VA 4301	600	1	105,000	**6065942**

V2A Stainless steel, grade 304 /pc.

The fitting connect is compatible with cable tray types MKSM, MKSMU, SKSM and SKSMU.

Magic straight connector for direct and screwless joining of Magic fittings with a side height of 110 mm.
The straight connector is equipped with four brackets and can also be used for the direct connection with a cut cable tray with only two brackets mounted to one side. To join a cut cable tray with a fitting, an additional Magic straight connector set is needed.





Always indicate the item number when ordering.

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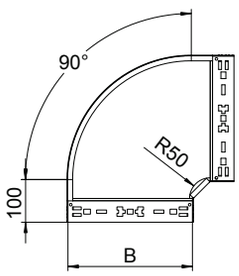
90° Magic bend

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBM 90 110VA4301	100	1	90,900	**6041880**
RBM 90 120VA4301	200	1	154,900	**6041882**
RBM 90 130VA4301	300	1	233,400	**6041884**
RBM 90 140VA4301	400	1	323,600	**6041886**
RBM 90 150VA4301	500	1	433,100	**6041888**
RBM 90 160VA4301	600	1	558,000	**6041890**

V2A Stainless steel, grade 304 /pc.

90° bend with quick connector system. For all cable tray types of 110 mm side height.





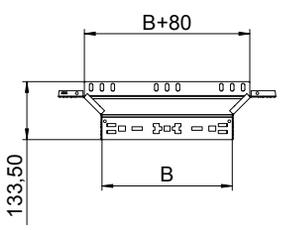
Magic add-on tee

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RAAM 110 VA4301	100	1	53,700	**6041960**
RAAM 120 VA4301	200	1	66,300	**6041962**
RAAM 130 VA4301	300	1	79,200	**6041964**
RAAM 140 VA4301	400	1	92,200	**6041966**
RAAM 150 VA4301	500	1	105,100	**6041968**
RAAM 160 VA4301	600	1	118,400	**6041970**

V2A Stainless steel, grade 304 /pc.

Add-on tee with quick connector system. For all cable tray types of 110 mm side height.





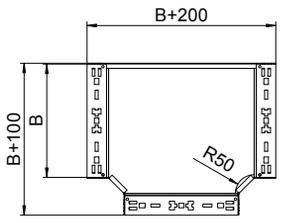
Magic tee

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RTM 110 VA4301	100	1	113,600	**6042050**
RTM 120 VA4301	200	1	185,500	**6042052**
RTM 130 VA4301	300	1	275,600	**6042054**
RTM 140 VA4301	400	1	380,300	**6042056**
RTM 150 VA4301	500	1	510,100	**6042060**
RTM 160 VA4301	600	1	659,500	**6042062**

V2A Stainless steel, grade 304 /pc.

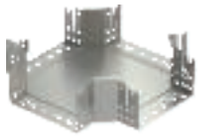
Tee with quick connector system. For all cable tray types of 110 mm side height.

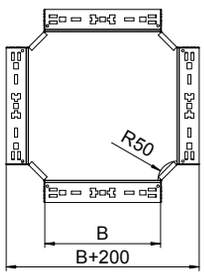




Always indicate the item number when ordering.

Magic cross-over





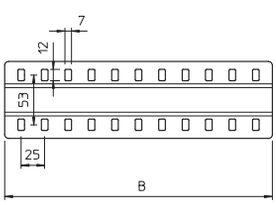
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RKM 110 VA4301	100	1	124,700	**7027201**
RKM 120 VA4301	200	1	192,300	**7027205**
RKM 130 VA4301	300	1	277,600	**7027207**
RKM 140 VA4301	400	1	374,800	**7027209**
RKM 150 VA4301	500	1	499,800	**7027211**
RKM 160 VA4301	600	1	644,300	**7027213**

V2A Stainless steel, grade 304 /pc.

Cross-over with quick connector system. For all cable tray types of 110 mm side height.

Joint plate





Type	Width mm	Quantity of screws pc.	Pack. pcs	Weight kg/100 pcs.	Item No.
SSLB 100 VA4301	85	2	20	7,700	**7070353**
SSLB 200 VA4301	185	2	20	16,700	**7070361**
SSLB 300 VA4301	285	3	20	25,700	**7070365**
SSLB 400 VA4301	385	4	20	34,700	**7070369**
SSLB 500 VA4301	485	5	20	43,700	**7070373**
SSLB 600 VA4301	585	6	20	52,700	**7070381**
SSLB 100 VA4571	85	2	20	7,700	**7070390**
SSLB 200 VA4571	185	2	20	16,700	**7070392**
SSLB 300 VA4571	285	3	20	25,700	**7070394**
SSLB 400 VA4571	385	4	20	34,700	**7070396**
SSLB 500 VA4571	485	5	20	43,700	**7070398**
SSLB 600 VA4571	585	6	20	52,700	**7070400**

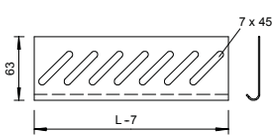
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

Including appropriate fastening material.

Wide joint plate for use in all cable trays and wide span cable trays.

Bottom end plate





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BEB 100 VA4301	100	100	5,500	**7084013**
BEB 150 VA4301	150	100	8,400	**7084015**
BEB 200 VA4301	200	100	11,400	**7084048**
BEB 300 VA4301	300	100	17,200	**7084064**
BEB 400 VA4301	400	100	23,100	**7084080**
BEB 500 VA4301	500	50	29,000	**7084102**
BEB 600 VA4301	600	50	35,000	**7084129**
BEB 100 VA4571	100	100	5,500	**7084141**
BEB 150 VA4571	150	100	8,400	**7084142**
BEB 200 VA4571	200	100	11,400	**7084143**
BEB 300 VA4571	300	100	17,200	**7084145**
BEB 400 VA4571	400	100	23,100	**7084147**
BEB 500 VA4571	500	50	29,000	**7084149**
BEB 600 VA4571	600	50	35,000	**7084151**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

For fastening, please order screws, type FRSB M6 x 12, separately.

For base reinforcement at the ends of the tray and as cable protection.

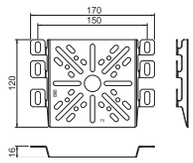
Always indicate the item number when ordering.

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Mounting plate

Type	Height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MP UNI VA4301	115	170	40	13,300	**7085133**

V2A Stainless steel, grade 304 /pc.





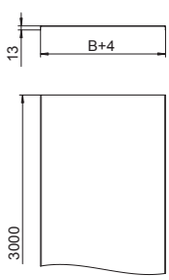
Fastening on the side rail of the mesh cable tray is carried out without bolts by bending the lugs.
Fastening on the side rail of cable trays or cable ladders is carried out with two truss-head bolts.
Type B9/T junction boxes can be mounted very easily by inserting the bolt plug supplied into the centre hole on the mounting plate.
Please order the bolt, type FRSB 6 x 12, separately.
Mounting plate, for fastening on the side rail of cable support systems.

Cover

Type	Width mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRLU 050 VA4301	50	1	3000	3	59,670	**6052821**
DRLU 100 VA4301	100	1	3000	3	99,000	**6052824**
DRLU 150 VA4301	150	1	3000	3	138,000	**6052828**
DRLU 200 VA4301	200	1	3000	3	177,670	**6052831**
DRLU 300 VA4301	300	1	3000	3	256,000	**6052834**
DRLU 400 VA4301	400	1	3000	3	334,670	**6052837**
DRLU 500 VA4301	500	1.25	3000	3	516,000	**6052841**
DRLU 600 VA4301	600	1.25	3000	3	737,270	**6052844**
DRLU 100 VA4571	100	1	3000	3	99,000	**6052991**
DRLU 150 VA4571	150	1	3000	3	138,000	**6052992**
DRLU 200 VA4571	200	1	3000	3	177,670	**6052993**
DRLU 300 VA4571	300	1	3000	3	256,000	**6052994**
DRLU 400 VA4571	400	1	3000	3	334,670	**6052995**
DRLU 500 VA4571	500	1.25	3000	3	619,500	**6052996**
DRLU 600 VA4571	600	1.25	3000	3	737,270	**6052998**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /m



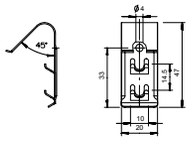


Transverse bead from 500 mm width.
Cover for cable trays and mesh cable trays.
When using covers outdoors, additional measures against the influence of wind must be taken. Cover clamps or- turn buckles on their own are not sufficient securing elements against wind loads.

Cover clamp, universal

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DKU VA4310	20	0,800	**6065600**

V2A Stainless steel, grade 301 /100 pc.





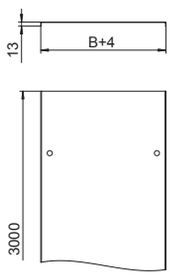
Depending on the tray width, 4–6 cover clamps are required for secure fastening of a 3 m cover.
Cover clamp for universal fastening of covers on cable trays, mesh cable trays and AZ channels.
The cover clamp is not suitable for use with mesh cable trays with a side height of 35 mm.

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Always indicate the item number when ordering.

Cover with turn buckle





Type	Width mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRL 100 VA4301	100	1	3000	3	118,000	**6052878**
DRL 150 VA4301	150	1	3000	3	157,340	**6052886**
DRL 200 VA4301	200	1	3000	3	196,340	**6052894**
DRL 300 VA4301	300	1	3000	3	275,000	**6052908**
DRL 400 VA4301	400	1	3000	3	354,000	**6052932**
DRL 500 VA4301	500	1.25	3000	3	637,670	**6052959**
DRL 600 VA4301	600	1.25	3000	3	755,340	**6052975**
DRL 100 VA4571	100	1	3000	3	118,000	**6052980**
DRL 150 VA4571	150	1	3000	3	157,340	**6052982**
DRL 200 VA4571	200	1	3000	3	185,000	**6052981**
DRL 300 VA4571	300	1	3000	3	275,000	**6052983**
DRL 400 VA4571	400	1	3000	3	354,000	**6052984**
DRL 500 VA4571	500	1.25	3000	3	637,660	**6052985**
DRL 600 VA4571	600	1.25	3000	3	755,340	**6052986**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /m

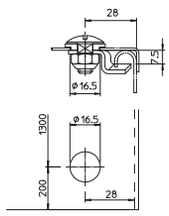
Transverse bead from 500 mm width.

Cover for cable trays and cable ladders with three pairs of turn buckles.

When using covers outdoors, additional measures against the influence of wind must be taken. Cover clamps or turn buckles on their own are not sufficient securing elements against wind loads.

Turn buckle





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DRLM 316 VA4301	10	2,800	**6222358**

V2A Stainless steel, grade 304 /pc.

Single-sided turn buckle. Use for cover widths of 50 – 600 mm.

Turn buckle for additional installation or installation at a later date.

Cover for 45° Magic bend

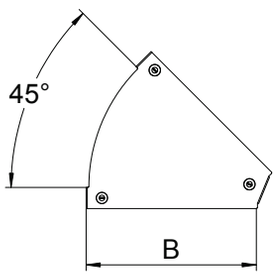


Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFBM 45 100 V2A	100	1.25	1	13,100	**7138430**
DFBM 45 150 V2A	150	1.25	1	19,800	**7138432**
DFBM 45 200 V2A	200	1.25	1	28,100	**7138434**
DFBM 45 300 V2A	300	1.25	1	49,300	**7138436**
DFBM 45 400 V2A	400	1.25	1	95,100	**7138438**

V2A Stainless steel, grade 304 /pc.

The cover can be used with fittings of all side heights.

Cover for 45° bend with pre-mounted turn buckles.



Always indicate the item number when ordering.

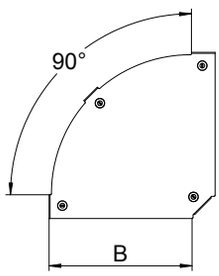
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Cover for 90° Magic bend

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFBM 90 100 V2A	100	1.25	1	18,500	**7138570**
DFBM 90 150 V2A	150	1.25	1	29,900	**7138572**
DFBM 90 200 V2A	200	1.25	1	44,400	**7138574**
DFBM 90 300 V2A	300	1.25	1	83,000	**7138576**
DFBM 90 400 V2A	400	1.25	1	166,400	**7138578**
DFBM 90 500 V2A	500	1.25	1	245,500	**7138580**
DFBM 90 600 V2A	600	1.25	1	339,500	**7138582**
DFBM 90 100 V4A	100	1.25	1	18,500	**7138590**
DFBM 90 150 V4A	150	1.25	1	29,900	**7138592**
DFBM 90 200 V4A	200	1.25	1	44,400	**7138594**
DFBM 90 300 V4A	300	1.25	1	83,000	**7138596**
DFBM 90 400 V4A	400	1.25	1	166,400	**7138598**
DFBM 90 500 V4A	500	1.25	1	245,500	**7138600**
DFBM 90 600 V4A	600	1.25	1	339,500	**7138602**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.





The cover can be used with fittings of all side heights.

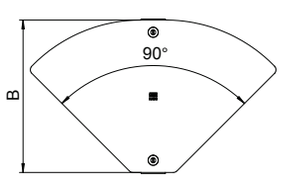
Cover for 90° bend with pre-mounted turn buckles.

Cover for variable Magic bend

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFBMV 100 VA4301	100	1	1	16,800	**6040800**
DFBMV 150 VA4301	150	1	1	27,500	**6040802**
DFBMV 200 VA4301	200	1	1	41,300	**6040804**
DFBMV 300 VA4301	300	1	1	78,100	**6040806**
DFBMV 400 VA4301	400	1.25	1	158,100	**6040808**
DFBMV 500 VA4301	500	1.25	1	234,900	**6040810**
DFBMV 600 VA4301	600	1.25	1	327,200	**6040812**
DFBMV 100 VA4571	100	1	1	16,800	**6040820**
DFBMV 150 VA4571	150	1	1	27,500	**6040822**
DFBMV 200 VA4571	200	1	1	41,300	**6040824**
DFBMV 300 VA4571	300	1	1	78,100	**6040826**
DFBMV 400 VA4571	400	1.25	1	158,100	**6040828**
DFBMV 500 VA4571	500	1.25	1	234,900	**6040830**
DFBMV 600 VA4571	600	1.25	1	327,200	**6040832**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.





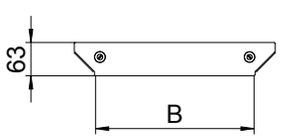
Cover for the variable bend, adjustable to an angle of 0 to 90°, locking through turn buckle and through overlapping with cable tray cover.

Cover for Magic add-on tee

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFAAM 100 V2A	100	1.25	1	11,100	**7138720**
DFAAM 150 V2A	150	1.25	1	13,500	**7138722**
DFAAM 200 V2A	200	1.25	1	14,500	**7138724**
DFAAM 300 V2A	300	1.25	1	20,900	**7138726**
DFAAM 400 V2A	400	1.25	1	31,700	**7138728**
DFAAM 500 V2A	500	1.25	1	37,900	**7138730**
DFAAM 600 V2A	600	1.25	1	44,100	**7138732**
DFAAM 100 V4A	100	1.25	1	11,100	**7138740**
DFAAM 150 V4A	150	1.25	1	13,500	**7138742**
DFAAM 200 V4A	200	1.25	1	14,500	**7138744**
DFAAM 300 V4A	300	1.25	1	20,900	**7138746**
DFAAM 400 V4A	400	1.25	1	31,700	**7138748**
DFAAM 500 V4A	500	1.25	1	37,900	**7138750**
DFAAM 600 V4A	600	1.25	1	44,100	**7138752**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.



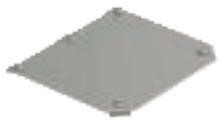


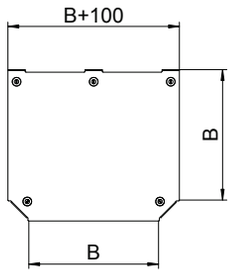
The cover can be used with fittings of all side heights.

Cover for add-on tee with pre-mounted turn buckles.

Always indicate the item number when ordering.

Cover for Magic tee





Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFTM 100 V2A	100	1.25	1	31,000	**7138860**
DFTM 150 V2A	150	1.25	1	40,300	**7138862**
DFTM 200 V2A	200	1.25	1	59,700	**7138864**
DFTM 300 V2A	300	1.25	1	110,600	**7138866**
DFTM 400 V2A	400	1.25	1	220,300	**7138868**
DFTM 500 V2A	500	1.25	1	322,700	**7138870**
DFTM 600 V2A	600	1.25	1	444,600	**7138872**
DFTM 100 V4A	100	1.25	1	31,000	**7138880**
DFTM 150 V4A	150	1.25	1	40,300	**7138882**
DFTM 200 V4A	200	1.25	1	59,700	**7138884**
DFTM 300 V4A	300	1.25	1	110,600	**7138886**
DFTM 400 V4A	400	1.25	1	220,300	**7138888**
DFTM 500 V4A	500	1.25	1	322,700	**7138890**
DFTM 600 V4A	600	1.25	1	444,600	**7138892**

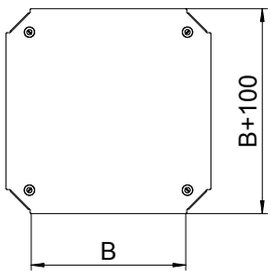
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

The cover can be used with fittings of all side heights.

Cover for tee with pre-mounted turn buckle.

Cover for Magic cross-over





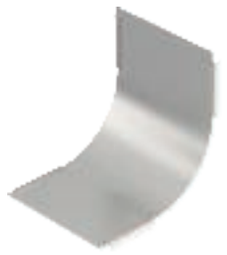
Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFKM 100 V2A	100	1.25	1	31,000	**7139020**
DFKM 150 V2A	150	1.25	1	48,500	**7139022**
DFKM 200 V2A	200	1.25	1	69,900	**7139024**
DFKM 300 V2A	300	1.25	1	124,500	**7139026**
DFKM 400 V2A	400	1.25	1	242,900	**7139028**
DFKM 500 V2A	500	1.25	1	350,500	**7139030**
DFKM 600 V2A	600	1.25	1	477,600	**7139032**
DFKM 100 V4A	100	1.25	1	31,000	**7139040**
DFKM 150 V4A	150	1.25	1	48,500	**7139042**
DFKM 200 V4A	200	1.25	1	69,900	**7139044**
DFKM 300 V4A	300	1.25	1	124,500	**7139046**
DFKM 400 V4A	400	1.25	1	242,900	**7139048**
DFKM 500 V4A	500	1.25	1	350,500	**7139050**
DFKM 600 V4A	600	1.25	1	477,600	**7139052**

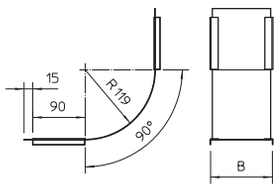
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

The cover can be used with fittings of all side heights.

Cover for cross-over with pre-mounted turn buckles.

Cover for 90° vertical bend, falling





Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBV 100 S VA4301	100	0.75	1	34,000	**7130905**
DBV 150 S VA4301	150	0.75	1	50,000	**7130906**
DBV 200 S VA4301	200	0.75	1	39,000	**7130907**
DBV 300 S VA4301	300	0.75	1	49,000	**7130909**
DBV 400 S VA4301	400	0.75	1	68,000	**7130911**
DBV 500 S VA4301	500	0.75	1	86,000	**7130913**
DBV 600 S VA4301	600	0.75	1	105,000	**7130915**
DBV 100 S VA4571	100	0.75	1	21,000	**7130920**
DBV 150 S VA4571	150	0.75	1	50,000	**7130921**
DBV 200 S VA4571	200	0.75	1	39,000	**7130922**
DBV 300 S VA4571	300	0.75	1	49,000	**7130924**
DBV 400 S VA4571	400	0.75	1	68,000	**7130926**
DBV 500 S VA4571	500	0.75	1	86,000	**7130928**
DBV 600 S VA4571	600	0.75	1	105,000	**7130930**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Cover for all rising vertical bends.

Always indicate the item number when ordering.

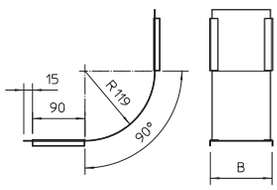
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Cover for 90° vertical bend, falling, side height 60

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBV60100F VA4301	100	0.75	1	25,000	**7130952**
DBV60150F VA4301	150	0.75	1	62,000	**7130953**
DBV60200F VA4301	200	0.75	1	49,000	**7130954**
DBV60300F VA4301	300	0.75	1	73,000	**7130956**
DBV60400F VA4301	400	0.75	1	96,000	**7130958**
DBV60500F VA4301	500	0.75	1	120,000	**7130960**
DBV60600F VA4301	600	0.75	1	143,000	**7130962**
DBV60100F VA4571	100	0.75	1	25,000	**7130972**
DBV60150F VA4571	150	0.75	1	62,000	**7130973**
DBV60200F VA4571	200	0.75	1	49,000	**7130974**
DBV60300F VA4571	300	0.75	1	73,000	**7130976**
DBV60400F VA4571	400	0.75	1	96,000	**7130978**
DBV60500F VA4571	500	0.75	1	120,000	**7130980**
DBV60600F VA4571	600	0.75	1	143,000	**7130982**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.





The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Cover for falling vertical bends of side height 60 mm.

Cover for 45° bend 100–300

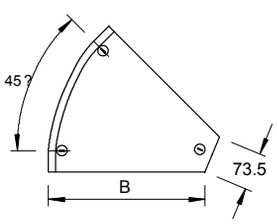
Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFB 45 100VA4301	100	1	1	14,000	**7133901**
DFB 45 200VA4301	200	1	1	35,000	**7133928**
DFB 45 300VA4301	300	1	1	55,000	**7133936**
DFB 45 100VA4571	100	1	1	14,000	**7133984**
DFB 45 200VA4571	200	1	1	35,000	**7133986**
DFB 45 300VA4571	300	1	1	55,000	**7133988**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.



The cover can be used with fittings of all side heights.

Cover for 45° bend with pre-mounted turn buckles.



Cover for 45° bend 400–600

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFB 45 400VA4301	400	1.25	1	142,500	**7133944**
DFB 45 600VA4301	600	1.25	1	230,000	**7133979**
DFB 45 400VA4571	400	1.25	1	230,000	**7133990**
DFB 45 500VA4571	500	1.25	1	320,000	**7133992**
DFB 45 600VA4571	600	1.25	1	420,000	**7133994**

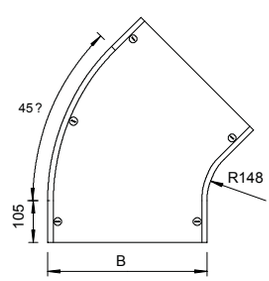
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

GB pickled



The cover can be used with fittings of all side heights.

Cover for 45° bend with pre-mounted turn buckles.



Always indicate the item number when ordering.

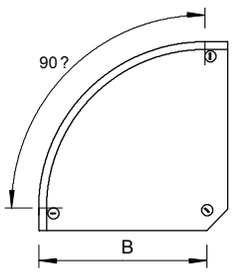
Cover for 90° bend 100–300



Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFB 90 100VA4301	100	1	1	65,000	**7134908**
DFB 90 200VA4301	200	1	1	55,000	**7134916**
DFB 90 300VA4301	300	1	1	95,000	**7134924**
DFB 90 100VA4571	100	1	1	65,000	**7134982**
DFB 90 200VA4571	200	1	1	55,000	**7134988**
DFB 90 300VA4571	300	1	1	95,000	**7134990**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

GB pickled



The cover can be used with fittings of all side heights.

Cover for 90° bend with pre-mounted turn buckles.

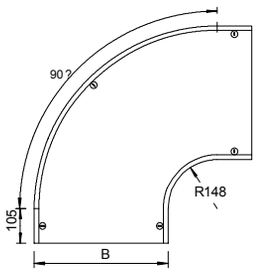
Cover for 90° bend 400–600



Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFB 90 400VA4301	400	1.25	1	275,000	**7134932**
DFB 90 500VA4301	500	1.25	1	470,000	**7134940**
DFB 90 600VA4301	600	1.25	1	588,000	**7134967**
DFB 90 400VA4571	400	1.25	1	335,000	**7134992**
DFB 90 500VA4571	500	1.25	1	450,000	**7134994**
DFB 90 600VA4571	600	1.25	1	580,000	**7134996**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

GB pickled



The cover can be used with fittings of all side heights.

Cover for 90° bend with pre-mounted turn buckles.

Cover for add-on tee 100–300

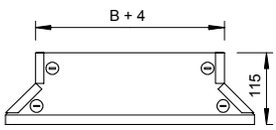


Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFAA 100 VA4301	100	1	1	52,000	**7136900**
DFAA 200 VA4301	200	1	1	72,000	**7136919**
DFAA 300 VA4301	300	1	1	92,000	**7136927**
DFAA 200 VA4571	200	1	1	28,000	**7136921**
DFAA 300 VA4571	300	1	1	37,000	**7136929**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

The cover can be used with fittings of all side heights.

Cover for add-on tee with pre-mounted turn buckles.



Always indicate the item number when ordering.

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Cover for add-on tee 400–600

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFAA 400 VA4301	400	1.25	1	111,500	**7136935**
DFAA 500 VA4301	500	1.25	1	159,000	**7136943**
DFAA 600 VA4301	600	1.25	1	183,500	**7136978**
DFAA 400 VA4571	400	1.25	1	152,000	**7136937**
DFAA 500 VA4571	500	1.25	1	172,000	**7136944**
DFAA 600 VA4571	600	1.25	1	202,000	**7136980**

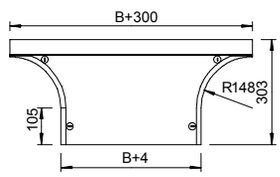
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

GB pickled



The cover can be used with fittings of all side heights.

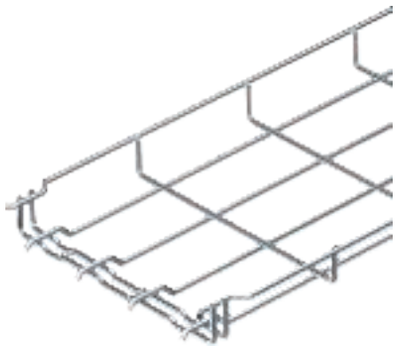
Cover for add-on tee with pre-mounted turn buckles.



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Always indicate the item number when ordering.

Mesh cable tray GR-Magic® 35



Type	Width mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
GRM 35 50VA4301	50	3.9	3	45,000	**6000054**
GRM 35 100VA4301	100	3.9	3	49,000	**6000055**
GRM 35 150VA4301	150	3.9	3	62,600	**6000056**
GRM 35 200VA4301	200	3.9	3	76,300	**6000057**
GRM 35 300VA4301	300	4.8	3	157,900	**6000059**
GRM 35 50VA4401	50	3.9	3	44,620	**6000086**
GRM 35 100VA4401	100	3.9	3	49,000	**6000087**
GRM 35 150VA4401	150	3.9	3	62,600	**6000089**
GRM 35 200VA4401	200	3.9	3	76,300	**6000090**
GRM 35 300VA4401	300	4.8	3	157,900	**6000091**

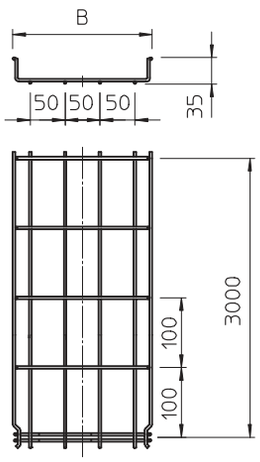
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 /m

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 35/50 = 20 x 100 mm).

Mesh cable tray with shaped connector of side height 35 mm.

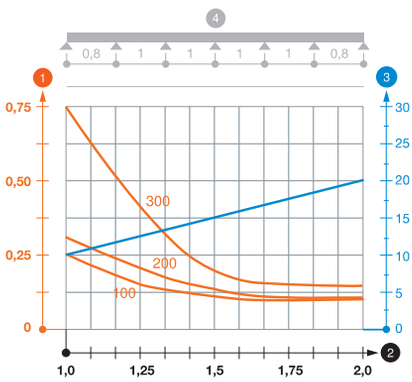
Magnetic shield insulation without cover 15 dB, with cover 25 dB.

Dimensions



Type	Length mm	Dimension B mm	Useful cross-section cm²
GRM 35 50VA4301	3000	50	17.5
GRM 35 100VA4301	3000	100	35
GRM 35 150VA4301	3000	150	52.5
GRM 35 200VA4301	3000	200	70
GRM 35 300VA4301	3000	300	105

Load



Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
GRM 35 50VA4301	0.25	0.11	0.1
GRM 35 100VA4301	0.25	0.11	0.1
GRM 35 150VA4301	0.25	0.11	0.1
GRM 35 200VA4301	0.3	0.14	0.1
GRM 35 300VA4301	0.75	0.22	0.15

Load diagram, GR-Magic mesh cable tray, type GRM 35

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

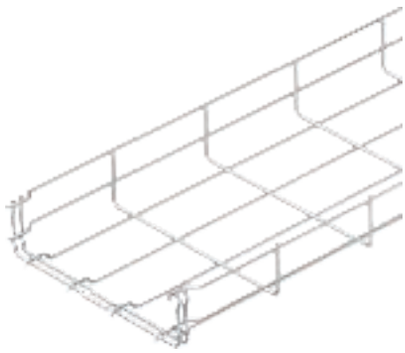
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Mesh cable tray GR-Magic® 55

Type	Width mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
GRM 55 50VA4301	50	3.9	3	67,000	**6001070**
GRM 55 100VA4301	100	3.9	3	72,666	**6001072**
GRM 55 150VA4301	150	3.9	3	88,000	**6001074**
GRM 55 200VA4301	200	3.9	3	99,000	**6001076**
GRM 55 300VA4301	300	4.8	3	191,100	**6001078**
GRM 55 400VA4301	400	4.8	3	243,000	**6001080**
GRM 55 500VA4301	500	4.8	3	287,000	**6001082**
GRM 55 600VA4301	600	4.8	3	331,000	**6001085**
GRM 55 50VA4401	50	3.9	3	67,000	**6001087**
GRM 55 100VA4401	100	3.9	3	72,666	**6001088**
GRM 55 150VA4401	150	3.9	3	88,000	**6001090**
GRM 55 200VA4401	200	3.9	3	99,000	**6001091**
GRM 55 300VA4401	300	4.8	3	191,100	**6001093**
GRM 55 400VA4401	400	4.8	3	243,000	**6001095**
GRM 55 500VA4401	500	4.8	3	287,000	**6001097**
GRM 55 600VA4401	600	4.8	3	331,000	**6001099**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 /m

GB pickled



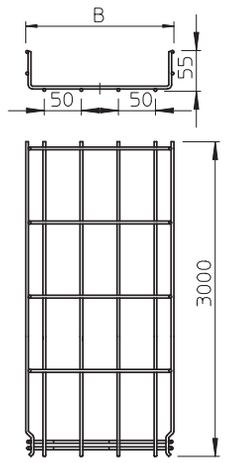
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 55/50 = 20 x 100 mm).

Mesh cable tray with shaped connector of side height 55 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

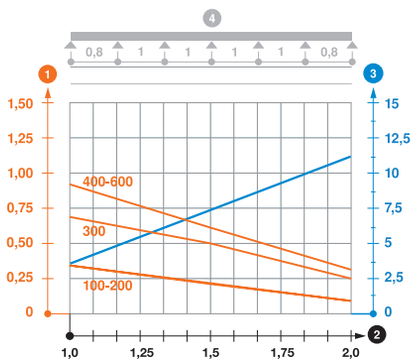
Dimensions

Type	Length mm	Dimension B mm	Useful cross-section cm²
GRM 55 50VA4301	3000	50	16
GRM 55 100VA4301	3000	100	40
GRM 55 150VA4301	3000	150	63
GRM 55 200VA4301	3000	200	87
GRM 55 300VA4301	3000	300	129
GRM 55 400VA4301	3000	400	175
GRM 55 500VA4301	3000	500	220
GRM 55 600VA4301	3000	600	265



Load

Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
GRM 55 50VA4301	0.25	0.12	0.08
GRM 55 100VA4301	0.25	0.12	0.08
GRM 55 150VA4301	0.25	0.12	0.08
GRM 55 200VA4301	0.25	0.12	0.08
GRM 55 300VA4301	0.6	0.28	0.25
GRM 55 400VA4301	0.6	0.28	0.25
GRM 55 500VA4301	0.75	0.38	0.25
GRM 55 600VA4301	0.75	0.38	0.25



Load diagram, mesh cable tray GRM 55 VA

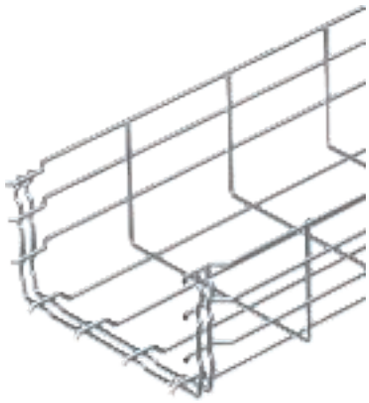
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

Mesh cable tray GR-Magic® 105



Type	Width mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
GRM105 100VA4301	100	3.9	3	99,000	**6002451**
GRM105 150VA4301	150	3.9	3	109,130	**6002455**
GRM105 200VA4301	200	4.8	3	193,000	**6002457**
GRM105 300VA4301	300	4.8	3	235,000	**6002460**
GRM105 400VA4301	400	4.8	3	277,000	**6002463**
GRM105 500VA4301	500	4.8	3	319,000	**6002466**
GRM105 600VA4301	600	4.8	3	361,100	**6002469**
GRM105 100VA4401	100	3.9	3	99,000	**6002475**
GRM105 150VA4401	150	3.9	3	109,130	**6002476**
GRM105 200VA4401	200	4.8	3	193,000	**6002477**
GRM105 300VA4401	300	4.8	3	235,000	**6002479**
GRM105 400VA4401	400	4.8	3	277,000	**6002481**
GRM105 500VA4401	500	4.8	3	319,000	**6002483**
GRM105 600VA4401	600	4.8	3	361,100	**6002485**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 /m

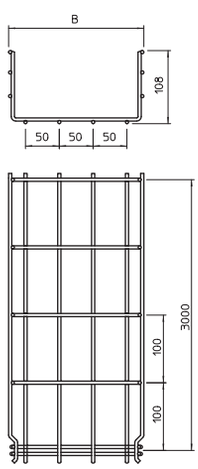
GB pickled

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

Mesh cable tray with shaped connector of side height 105 mm.

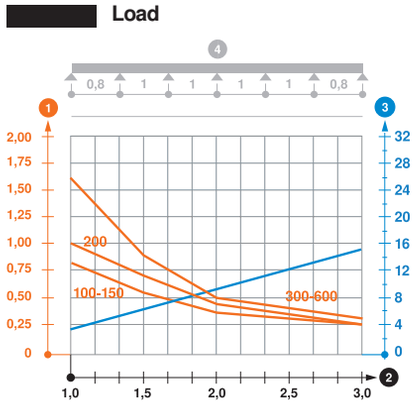
Magnetic shield insulation without cover 15 dB, with cover 25 dB.

Dimensions



Type	Length mm	Dimension B mm	Useful cross-section cm²
GRM105 100VA4301	3000	100	82
GRM105 150VA4301	3000	150	130
GRM105 200VA4301	3000	200	175
GRM105 300VA4301	3000	300	268
GRM105 400VA4301	3000	400	363
GRM105 500VA4301	3000	500	459
GRM105 600VA4301	3000	600	554

Load



Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
GRM105 100VA4301	0.8	0.55	0.37	0.25
GRM105 150VA4301	0.8	0.55	0.37	0.25
GRM105 200VA4301	0.8	0.55	0.37	0.25
GRM105 300VA4301	1.1	0.75	0.53	0.3
GRM105 400VA4301	1.1	0.75	0.53	0.3
GRM105 500VA4301	1.25	0.85	0.6	0.3
GRM105 600VA4301	1.25	0.85	0.6	0.3

Load diagram, mesh cable tray, type GRM 105

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

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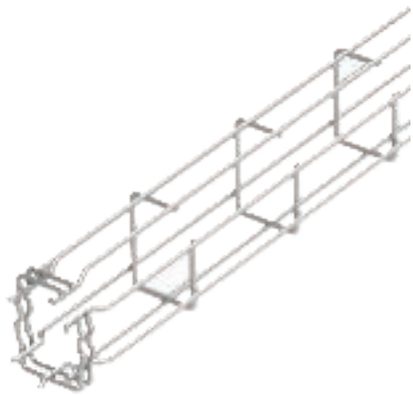
G mesh cable tray Magic, side height 50 mm

Type	Side height mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
G-GRM 50 50V2A	50	3.9	3	67,100	**6005550**
G-GRM 50 50V4A	50	3.9	3	67,100	**6005565**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 /m

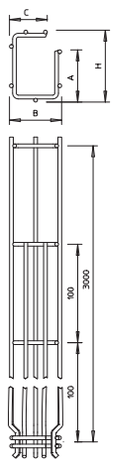
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Bracket mounting or direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.



Dimensions

Type	Length mm	Dimension B mm	Dimension H mm	Dimension C mm	Dimension A mm
G-GRM 50 50V2A	3000	55	55	33	40



Load

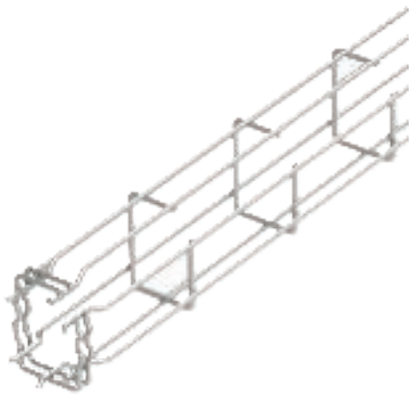
G-GRM 50/50

	Support spacing [m]			
	Load [kN/m]			
Fastening variant	**1**	**1.5**	**2**	**2.5**
Wall fastening K12 1818	0.2	0.15	0.1	0.05
Ceiling fastening K12 1818	0.25	0.2	0.10	0.05

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Always indicate the item number when ordering.

G mesh cable tray Magic, side height 75 mm



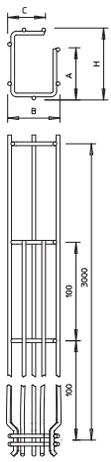
Type	Side height mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
G-GRM 75 50V2A	75	3.9	3	79,900	**6005553**
G-GRM 75 50V4A	75	3.9	3	79,900	**6005568**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 /m

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Bracket mounting or direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Dimensions



Type	Length mm	Dimension B mm	Dimension H mm	Dimension C mm	Dimension A mm
G-GRM 75 50V2A	3000	53	73	40	53

Load

G-GRM 75/50

	Support spacing [m]			
	Load [kN/m]			
Fastening variant	**1**	**1.5**	**2**	**2.5**
Wall fastening K12 1818	0.3	0.2	0.15	0.1
Ceiling fastening K12 1818	0.35	0.2	0.15	0.1

Always indicate the item number when ordering.

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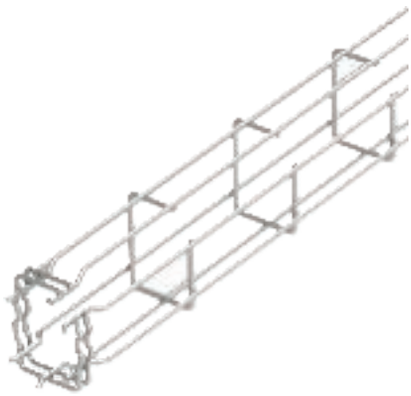
G mesh cable tray Magic, side height 125 mm

Type	Side height mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
G-GRM 125 75V2A	125	3.9	3	108,200	**6005556**
G-GRM 125 75V4A	125	3.9	3	108,200	**6005571**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 /m

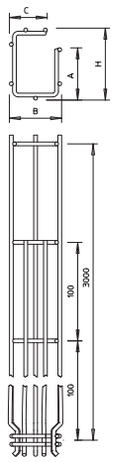
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Bracket mounting or direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.



Dimensions

Type	Length mm	Dimension B mm	Dimension H mm	Dimension C mm	Dimension A mm
G-GRM 125 75V2A	3000	75	125	40	96



Load

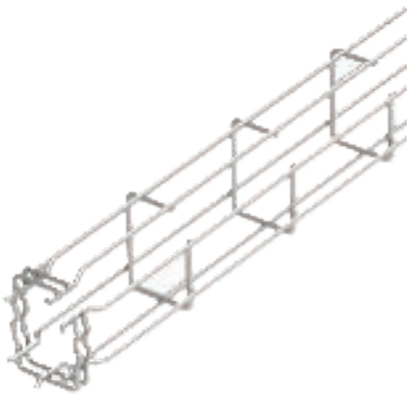
G-GRM 125/75

	Support spacing [m]			
	Load [kN/m]			
Fastening variant	**1**	**1.5**	**2**	**2.5**
Bracket MWAG 12-11	0.6	0.35	0.3	0.2
Wall fastening K12 1818	0.25	0.25	0.2	0.15
Ceiling fastening K12 1818	0.3	0.25	0.2	0.15

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Always indicate the item number when ordering.

G mesh cable tray Magic, side height 150 mm



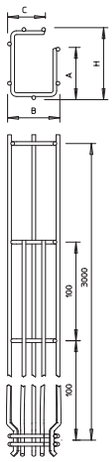
Type	Side height mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
G-GRM 150 100V2A	150	3.9	3	128,000	**6005559**
G-GRM 150 100V4A	150	3.9	3	128,000	**6005574**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 /m

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Bracket mounting or direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Dimensions



Type	Length mm	Dimension B mm	Dimension H mm	Dimension C mm	Dimension A mm
G-GRM 150 100V2A	3000	100	155	70	120

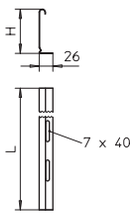
Load

G-GRM 150/100

	Support spacing [m]			
	Load [kN/m]			
Fastening variant	**1**	**1.5**	**2**	**2.5**
Bracket MWAG 12-11	0.6	0.5	0.35	0.3
Wall fastening K12 1818	0.25	0.2	0.15	0.1
Ceiling fastening K12 1818	0.25	0.25	0.15	0.1

Barrier strip 30 mm





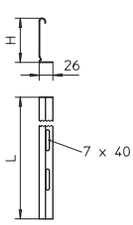
Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 30 VA4301	30	3000	3	37,670	**6062052**
TSG 30 VA4571	30	3000	3	38,670	**6062054**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /m

Barrier strip for separation of cables of different voltages or functions.

Barrier strip 45 mm





Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 45 VA4301	45	3000	3	47,000	**6062025**
TSG 45 VA4571	45	3000	3	48,000	**6062028**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /m

Barrier strip for separation of cables of different voltages or functions.

Always indicate the item number when ordering.

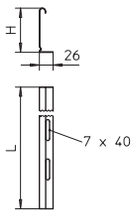
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Barrier strip 85 mm

Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 85 VA4301	85	3000	3	69,670	**6062173**

V2A Stainless steel, grade 304 /m

Barrier strip for separation of cables of different voltages or functions.



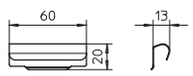


Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**

V2A Stainless steel, grade 301 /pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.



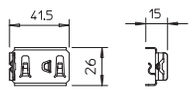


Hold-down clamp for barrier strip fastening

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS GR VA4310	30	0,830	**6062282**

V2A Stainless steel, grade 301 /100 pc.

Hold-down clamp for fastening barrier strips in mesh cable trays.





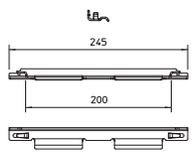
Quick connector

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GRV 245 VA4404	245	20	13,500	**6016688**

V4A Stainless steel, grade 316 L /pc.

Two straight connectors, type GRV 245, are used for each connection point.

Long mesh cable tray connection for screwless straight connection of mesh cable trays.





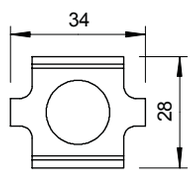
Joint connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GSV 34 VA4301	20	3,000	**6016642**
GSV 34 VA4401	20	3,000	**6016648**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 /pc.

Including screw of type FRS M6 x 20.

Screwed version of joint connector for mesh cable trays.





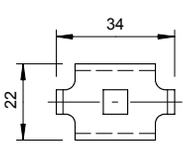
Hold-down clamp

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GKS 34 VA4301	20	2,000	**6016839**
GKS 34 VA4401 SP	10	2,000	**6016859**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 /pc.

Including FRS M6 x 20 bolt with flange nut.

Clamp for fixing mesh cable trays to wall or support brackets.



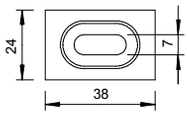


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Always indicate the item number when ordering.

Hold-down clamp





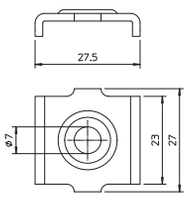
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GKT 38 VA4301	20	2,200	**6017045**
GKT 38 VA4401 SP	10	2,200	**6017092**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 /pc.

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

Hold-down clamp





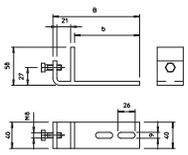
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GKB 34 VA4301	20	1,000	**6016676**

V2A Stainless steel, grade 304 /pc.

Clamp for fastening mesh cable trays of width 50 mm to the floor.

Beam clamp, vertical





Type	Dimension B mm	Dimension b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BFK 132 58VA4301	132	99	10	38,000	**6003871**

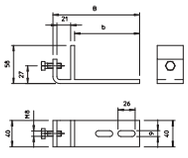
V2A Stainless steel, grade 304 /pc.

GB pickled

The cable support system attached to the beam clamp runs vertically.
Beam clamp for clamping on the steel girder.

Beam clamp, vertical





Type	Dimension B mm	Dimension b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BFK 166 58 20V2A	166	133	10	46,000	**6003877**

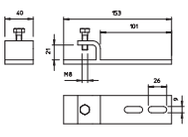
V2A Stainless steel, grade 304 /pc.

GB pickled

The cable support system attached to the beam clamp runs vertically.
Beam clamp for clamping on the steel girder.

Beam clamp, horizontal





Type	Dimension B mm	Dimension b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BFK 153 33VA4301	153	101	10	36,000	**6003873**

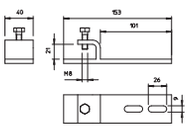
V2A Stainless steel, grade 304 /pc.

GB pickled

The cable support system attached to the beam clamp is horizontal routing.
Beam clamp for clamping on the steel girder.

Beam clamp, horizontal





Type	Dimension B mm	Dimension b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BFK 187 33VA4301	187	135	10	42,000	**6003879**

V2A Stainless steel, grade 304 /pc.

GB pickled

The cable support system attached to the beam clamp is horizontal routing.
Beam clamp for clamping on the steel girder.

Always indicate the item number when ordering.

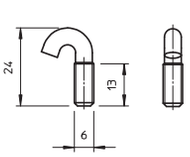
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Hook screw

Type	Thread	Pack. pcs	Weight kg/100 pcs.	Item No.
HS M6x13 A2	M6	100	0,500	**1154990**

V2A Stainless steel, A2 /100 pc.

Hook screw for fastening cable tracks on the bracket.



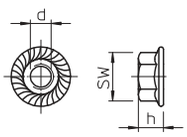


Flange nut

Type	Dim. d mm	Dim. h mm	SW mm	Grade	Pack. pcs	Weight kg/100 pcs.	Item No.
KM M6 A2	6	6	10	A2-70	100	0,315	**6408966**
KM M6 A4	6	6	10	A4-70	100	0,315	**6408970**
KM M8 A4	8	8	13	A4-70	100	0,800	**6408920**
KM M10 A4	10	10	17	A4-70	100	1,320	**6408930**
KM M12 A4	12	12	19	A4-70	100	2,260	**6408940**

V2A Stainless steel, A2 V4A Stainless steel, A4 /100 pc.

Flange nut with pressed washer in accordance with EN 1661.



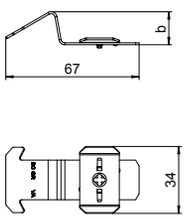


Hold down clip

Type	Dimension b mm	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
BC GR 4.8 VA	17	For 3.9 and 4.8 mm wires	20	1,760	**6016665**

V2A Stainless steel, grade 301 /pc.

Hold-down clip for the screwless mounting of mesh cable trays onto MS profile rails.





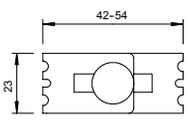
Corner connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GEV 36 VA4301	20	3,000	**6016731**
GEV 36 VA4401 SP	10	3,000	**6016764**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 /pc.

Including FRS M6 x 12 bolt with flange nut

Corner connector for the creation of mesh cable tray bend elements.





Wall clamp / central hanger

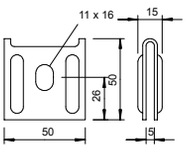
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
K12 1818 VA4301	25	7,600	**6016421**

V2A Stainless steel, grade 304 /pc.

Recommendation:
As wall mounting up to max. mesh cable tray width 200 mm.
As centre suspension up to max. mesh cable tray width 200 mm.

As a trapeze suspension from a width of 300 mm.

Wall clamp and central hanger for mesh cable trays.



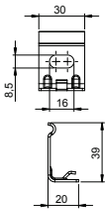


Wall clamp for GRM 35 50

Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WH GRM35 VA4401	35	50	10	1,950	**6016445**

V4A Stainless steel, grade 316 /pc.

Wall clamp for fastening of mesh cable trays GRM 35 50



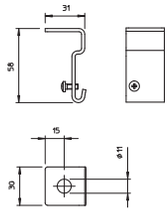


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Always indicate the item number when ordering.

Side holder





Type	For threaded rod	Pack. pcs	Weight kg/100 pcs.	Item No.
SH M10 A4	M10	20	5,500	**6015340**

V4A Stainless steel, grade 316 /pc.

Side holder for suspension of mesh cable trays.

Threaded rod





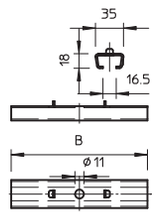
Type	Thread	Dim. d mm	Dim. L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2078 M8 1M V2A	M8	8	1000	10	30,000	**3141310**
2078 M10 1M V2A	M10	10	1000	10	49,000	**3141312**
2078 M12 1M V2A	M12	12	1000	10	70,000	**3141314**
2078 M8 1M V4A	M8	8	1000	50	30,000	**3141492**
2078 M10 1M V4A	M10	10	1000	25	49,000	**3141502**
2078 M12 1M V4A	M12	12	1000	20	70,000	**3141512**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /100 pc.

Threaded rod to DIN 976.

Central suspension





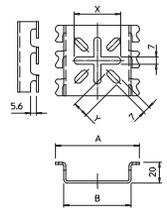
Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 170 VA4404	170	25	20,000	**6015418**
GMS 270 VA4404	270	25	32,000	**6015419**
GMS 370 VA4404	370	25	43,000	**6015420**
GMS 470 VA4404	470	10	55,000	**6015421**
GMS 570 VA4404	570	10	67,000	**6015422**

V4A Stainless steel, grade 316 L /pc.

Central hanger including clamp for mesh cable tray suspensions.

Mounting plate





Type	Dimension A mm	Dimension B mm	Dimension x mm	Dimension y mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MPG 65 VA4404	81	65	45	15	30	8,800	**6006488**
MPG 90 VA4404	111	95	45	38	30	16,100	**6006489**

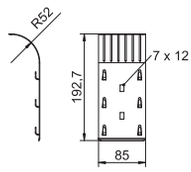
V4A Stainless steel, grade 316 L /pc.

Accessories can be fastened to the mounting plate. In addition, the mounting plate can be used for wall bracket.

Mounting for screwless fastening on mesh cable trays.

Drop-out plate





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KAB GR VA 1.4301	10	14,100	**6220145**

V2A Stainless steel, grade 304 /pc.

The cable exit plate allows compliance with specific bend radii (fibre-optic cables), thus preventing possible cable breaks. Can be mounted in a lengthwise direction and at the side, can be arranged for greater widths.

Drop-out plate for mesh cable trays.

Always indicate the item number when ordering.

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Cover, unperforated

Type	Width mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRLU 050 VA4301	50	1	3000	3	59,670	**6052821**
DRLU 100 VA4301	100	1	3000	3	99,000	**6052824**
DRLU 150 VA4301	150	1	3000	3	138,000	**6052828**
DRLU 200 VA4301	200	1	3000	3	177,670	**6052831**
DRLU 300 VA4301	300	1	3000	3	256,000	**6052834**
DRLU 400 VA4301	400	1	3000	3	334,670	**6052837**
DRLU 500 VA4301	500	1.25	3000	3	516,000	**6052841**
DRLU 600 VA4301	600	1.25	3000	3	737,270	**6052844**

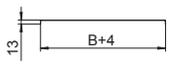
V2A Stainless steel, grade 304 /m

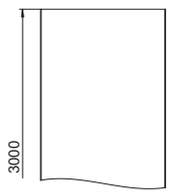
Transverse bead from 500 mm width.

Cover for cable trays and mesh cable trays.

When using covers outdoors, additional measures against the influence of wind must be taken. Cover clamps or- turn buckles on their own are not sufficient securing elements against wind loads.







Cover clamp, universal

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DKU VA4310	20	0,800	**6065600**

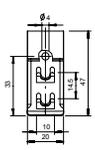
V2A Stainless steel, grade 301 /100 pc.

Depending on the tray width, 4–6 cover clamps are required for secure fastening of a 3 m cover.

Cover clamp for universal fastening of covers on cable trays, mesh cable trays and AZ channels.

The cover clamp is not suitable for use with mesh cable trays with a side height of 35 mm.



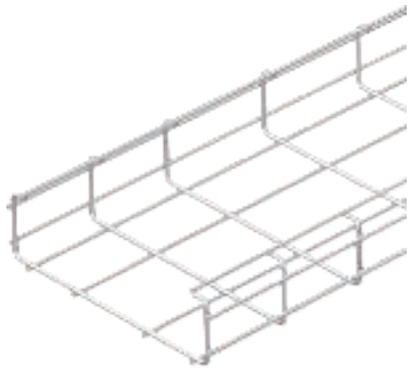




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Always indicate the item number when ordering.

C mesh cable tray



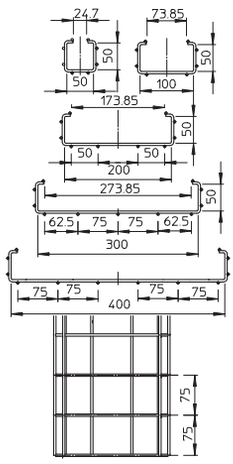
Type	Width mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
CGR 50 50 VA4301	50	4.5	3	125,400	**6016200**
CGR 50 100VA4301	100	4.5	3	133,600	**6016235**
CGR 50 200VA4301	200	4.5	3	181,000	**6016251**
CGR 50 300VA4301	300	4.5	3	210,000	**6016253**
CGR 50 400VA4301	400	4.5	3	240,000	**6016255**

V2A Stainless steel, grade 304 /m

GB pickled

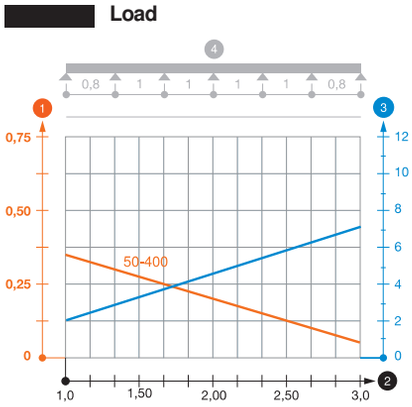
C-shaped mesh cable tray made of spot-welded steel wire of side height 50 mm.
Magnetic shield insulation 15 dB.

Dimensions



Type	Length mm	Dimension B mm	Useful cross-section cm²
CGR 50 50 VA4301	3000	50	13
CGR 50 100VA4301	3000	100	33
CGR 50 200VA4301	3000	200	74
CGR 50 300VA4301	3000	300	116
CGR 50 400VA4301	3000	400	157

Load



Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
CGR 50 50 VA4301	0.32	0.25	0.18
CGR 50 100VA4301	0.32	0.25	0.18
CGR 50 200VA4301	0.32	0.25	0.18
CGR 50 300VA4301	0.32	0.25	0.18
CGR 50 400VA4301	0.32	0.25	0.18

Load diagram, C mesh cable tray CGR 50 VA

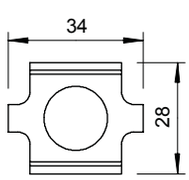
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Joint connector





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GSV 34 VA4301	20	3,000	**6016642**

V2A Stainless steel, grade 304 /pc.

Including screw of type FRS M6 x 20.
Screwed version of joint connector for mesh cable trays.

Always indicate the item number when ordering.

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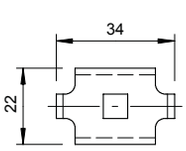
Hold-down clamp

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GKS 34 VA4301	20	2,000	**6016839**

V2A Stainless steel, grade 304 /pc.

Including FRS M6 x 20 bolt with flange nut.

Clamp for fixing mesh cable trays to wall or support brackets.





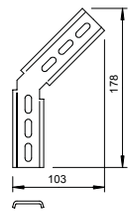
45° mounting angle

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
MW 45 SL10VA4301	20	20,000	**6017339**

V2A Stainless steel, grade 304 /pc.

Each with two clamps of type KS 23/35.

45° installation profile, vertical, for C mesh cable tray and GR-Magic mesh cable tray with a side height of 55 mm.





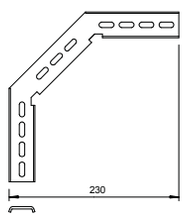
90° mounting angle

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
MW 90 SL17VA4301	20	27,000	**6016278**
MW 90 SL23VA4301	20	34,700	**6016308**

V2A Stainless steel, grade 304 /pc.

Each with two clamps of type KS 23/35.

90° installation profile, vertical, for C mesh cable tray and GR-Magic mesh cable tray with a side height of 55 mm.





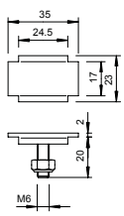
Hold-down clamp

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS 23 35 VA4301	20	2,015	**6016529**

V2A Stainless steel, grade 304 /pc.

Including M6 locknut.

Clamp for mounting bracket, type MW 45 and MW 90.



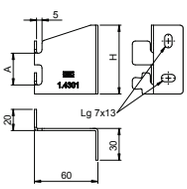


Horizontal wall bracket

Type	Dimension A mm	Dimension H mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WBH CGR50 VA4301	30	65	25	8,600	**6016411**

V2A Stainless steel, grade 304 /pc.

Wall mounting for horizontal wall fastening of the C mesh cable tray. Screwless mesh cable tray fastening on the wall mounting.



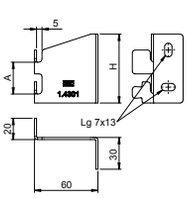


Vertical wall bracket

Type	Dimension A mm	Dimension H mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WBV CGR50 VA4301	75	110	25	16,000	**6016415**

V2A Stainless steel, grade 304 /pc.

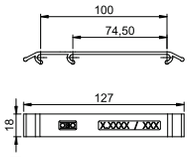
Wall mounting for vertical wall fastening of the C mesh cable tray. Screwless mesh cable tray fastening on the wall mounting.





Always indicate the item number when ordering.

Identification clip











Type	KS GR OR	KS GR ZGB	KS GR LBL	KS GR SGN
Colour	Pastel orange	Zinc yellow	Light blue	Signal green
Weight kg/100 pcs.	0.92	0.92	0.92	0.92
Pack. pcs	10	10	10	10
Item No.	**6017712**	**6017713**	**6017714**	**6017715**

PA Polyamide /pc.

The identification clip is fastened to the mesh cable tray without screws simply by attaching it.
Identification clip for screwless fastening on mesh cable trays.

Cable ladder LG 60 VS

Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
LG 620 VS6VA4301	200	1.5	6	273,800	**6208700**
LG 630 VS6VA4301	300	1.5	6	298,000	**6208703**
LG 640 VS6VA4301	400	1.5	6	322,200	**6208706**
LG 650 VS6VA4301	500	1.5	6	346,300	**6208709**
LG 660 VS6VA4301	600	1.5	6	378,300	**6208712**
LG 620 VS6VA4571	200	1.5	6	273,800	**6101200**
LG 630 VS6VA4571	300	1.5	6	298,000	**6101208**
LG 640 VS6VA4571	400	1.5	6	322,200	**6101216**
LG 650 VS6VA4571	500	1.5	6	346,300	**6101223**
LG 660 VS6VA4571	600	1.5	6	378,300	**6101232**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /m

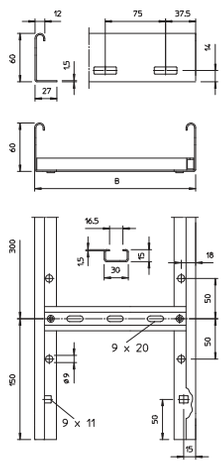


Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

Magnetic shield insulation without cover 10 dB, with cover 15 dB.

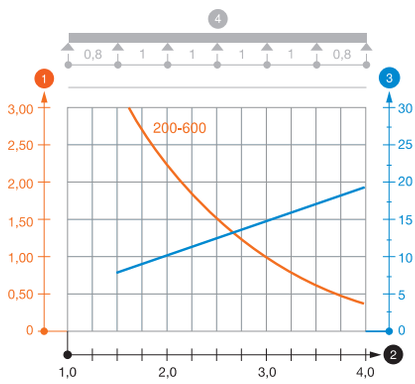
Dimensions

Type	Length mm	Width mm	Useful cross-section cm^2	Rung spacing mm
LG 620 VS6VA4301	6000	200	98	300
LG 630 VS6VA4301	6000	300	148	300
LG 640 VS6VA4301	6000	400	198	300
LG 650 VS6VA4301	6000	500	248	300
LG 660 VS6VA4301	6000	600	298	300



Load

Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	3.5 m kN/m	4.0 m kN/m
LG 620 VS6VA4301	3.1	2.25	1.5	1.1	0.75	0.45
LG 630 VS6VA4301	3.1	2.25	1.5	1.1	0.75	0.45
LG 640 VS6VA4301	3.1	2.25	1.5	1.1	0.75	0.45
LG 650 VS6VA4301	3.1	2.25	1.5	1.1	0.75	0.45
LG 660 VS6VA4301	3.1	2.25	1.5	1.1	0.75	0.45



Load diagram, LG 60 VS

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

Cable ladder LCIS



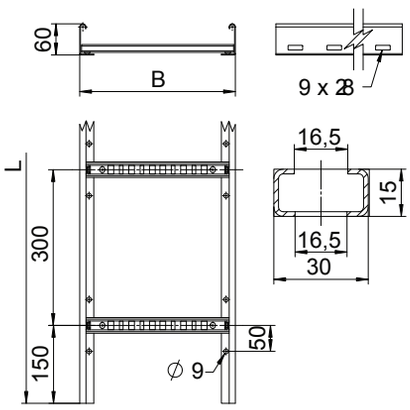
Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
LCIS 620 6 A2	200	1.5	6	267,000	**6207252**
LCIS 630 6 A2	300	1.5	6	288,840	**6207254**
LCIS 640 6 A2	400	1.5	6	310,500	**6207256**
LCIS 650 6 A2	500	1.5	6	332,340	**6207258**
LCIS 660 6 A2	600	1.5	6	354,000	**6207260**
LCIS 620 6 A4	200	1.5	6	267,000	**6207202**
LCIS 630 6 A4	300	1.5	6	288,840	**6207204**
LCIS 640 6 A4	400	1.5	6	310,500	**6207206**
LCIS 650 6 A4	500	1.5	6	332,340	**6207208**
LCIS 660 6 A4	600	1.5	6	354,000	**6207210**

V2A Stainless steel, A2 V4A Stainless steel, A4 /m

Cable ladder with 60 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamps, type LKS 40. The slot dimension of the frame is 16.5 mm and the appropriate U clamp is type 2056.

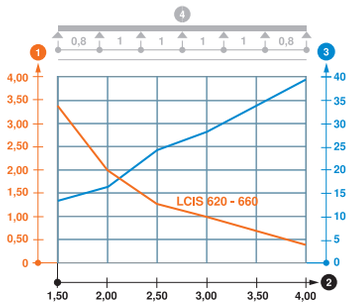
Magnetic shield insulation without cover 10 dB, with cover 15 dB.

Dimensions



Type	Length mm	Width mm	Rail thickness mm	Useful cross-section cm²	Rung spacing mm
LCIS 620 6 A2	6000	200	1.5	80	300
LCIS 630 6 A2	6000	300	1.5	120	300
LCIS 640 6 A2	6000	400	1.5	160	300
LCIS 650 6 A2	6000	500	1.5	200	300
LCIS 660 6 A2	6000	600	1.5	240	300

Load



Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LCIS 620 6 A2	3.3	2	1.3	1	0.4
LCIS 630 6 A2	3.3	2	1.3	1	0.4
LCIS 640 6 A2	3.3	2	1.3	1	0.4
LCIS 650 6 A2	3.3	2	1.3	1	0.4
LCIS 660 6 A2	3.3	2	1.3	1	0.4

Load diagram LCIS 60

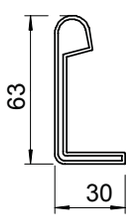
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

End cap





Type	Colour	Pack. pair	Weight kg/100 pairs	Item No.
SKH 60 OR	Pastel orange	40	1,100	**6222537**

PE Polyethylene /pair

End cap to cover cable ladder ends of side height 60 mm.

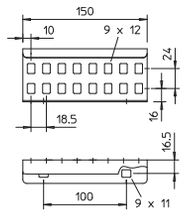
Straight connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LVG 60 VA4301	60	10	22,000	**6208846**
LVG 60 VA4571	60	10	22,000	**6208835**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

The bolt fastening ensures the continuity of the equipotential bonding.

Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.





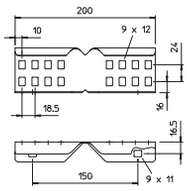
Straight and angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LWVG 60 VA4301	60	10	24,000	**6208898**
LWVG 60 VA4571	60	10	22,000	**6208891**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

The bolt fastening ensures the continuity of the equipotential bonding.

Angle connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation.





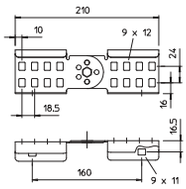
Adjustable connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LGVG 60 VA4301	60	10	29,000	**6208947**
LGVG 60 VA4571	60	10	29,000	**6208932**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

The bolt fastening ensures the continuity of the equipotential bonding.

Adjustable connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation. Angle can be adjusted vertically.





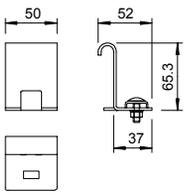
Connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LAS 60 VA4301	10	13,000	**6221386**

V2A Stainless steel, grade 304 /pc.

To increase the cable supporting surface, use a conjunction of corner plates of type LEB.

Connector for creation of branches at the same height at a later date.



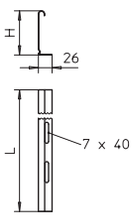


Barrier strip

Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 45 VA4301	45	3000	3	47,000	**6062025**
TSG 45 VA4571	45	3000	3	48,000	**6062028**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /m

Barrier strip for separation of cables of different voltages or functions.



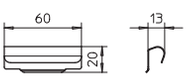


Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**

V2A Stainless steel, grade 301 /pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.

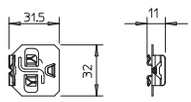




Always indicate the item number when ordering.

Hold-down clamp for barrier strip fastening





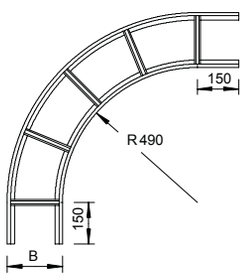
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KL VA4310	30	0,512	**6062284**

V2A Stainless steel, grade 301 /100 pc.

Hold-down clamp for screwless fastening of barrier strips in cable ladders.

90° bend





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LBI 90 620 VS VA	200	1	358,000	**7160046**
LBI 90 630 VS VA	300	1	412,000	**7160054**
LBI 90 640 VS VA	400	1	497,000	**7160062**
LBI 90 650 VS VA	500	1	558,000	**7160089**
LBI 90 660 VS VA	600	1	664,000	**7160097**
LBI 90 620VS V4A	200	1	358,000	**7160102**
LBI 90 630VS V4A	300	1	412,000	**7160103**
LBI 90 640VS V4A	400	1	497,000	**7160104**
LBI 90 650VS V4A	500	1	558,000	**7160105**
LBI 90 660VS V4A	600	1	664,000	**7160106**

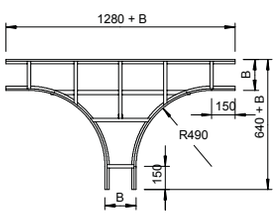
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

Connectors should be ordered separately and in the appropriate quantity.

90° bend, horizontal, for cable ladders with VS rungs and a side height of 60 mm.

Tee





Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LT 620 VS VA4301	200	1	677,000	**7162022**
LT 630 VS VA4301	300	1	795,000	**7162049**
LT 640 VS VA4301	400	1	879,000	**7162057**
LT 650 VS VA4301	500	1	962,000	**7162073**
LT 660 VS VA4301	600	1	1.104,000	**7162081**
LT 620 VS VA4571	200	1	680,000	**7162102**
LT 630 VS VA4571	300	1	795,000	**7162103**
LT 640 VS VA4571	400	1	879,000	**7162104**
LT 650 VS VA4571	500	1	962,000	**7162105**
LT 660 VS VA4571	600	1	1.104,000	**7162106**

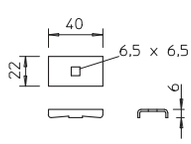
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

Connectors should be ordered separately and in the appropriate quantity.

Tee, horizontal, for cable ladders with medium-duty rungs (VS) and a side height of 60 mm.

Hold-down clamp





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LKS 40 VA4301	10	2,500	**6017134**

V2A Stainless steel, grade 304 /pc.

Hold-down clamp for fastening cable ladders.

Always indicate the item number when ordering.

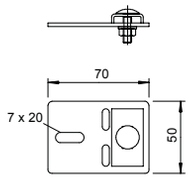
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Support

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LAL 70 VA4301	20	10,200	**6221017**

V2A Stainless steel, grade 304 /pc.

Support for fastening rising or falling cable ladders.



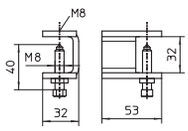


Beam clamp for cable ladders

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KLL 32 VA4301	10	17,100	**6221063**

V2A Stainless steel, grade 304 /pc.

Beam clamp for fastening cable ladders to steel girders.



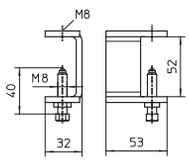


Beam clamp for cable ladders

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KLL 52 VA4301	10	21,000	**6221073**

V2A Stainless steel, grade 304 /pc.

Beam clamp for fastening cable ladders to steel girders.



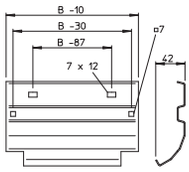


Drop-out plate

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LAB 20 VA4301	200	20	26,000	**7164017**
LAB 30 VA4301	300	25	38,000	**7164025**
LAB 40 VA4301	400	25	50,000	**7164033**
LAB 50 VA4301	500	15	63,000	**7164041**
LAB 60 VA4301	600	15	75,000	**7164068**

V2A Stainless steel, grade 304 /pc.

Drop-out plate for installation on the rung for vertically exiting cables.





Cover with turn buckle

Type	Width mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRL 200 VA4301	200	1	3000	3	196,340	**6052894**
DRL 300 VA4301	300	1	3000	3	275,000	**6052908**
DRL 400 VA4301	400	1	3000	3	354,000	**6052932**
DRL 500 VA4301	500	1.25	3000	3	637,670	**6052959**
DRL 600 VA4301	600	1.25	3000	3	755,340	**6052975**
DRL 100 VA4571	100	1	3000	3	118,000	**6052980**
DRL 150 VA4571	150	1	3000	3	157,340	**6052982**
DRL 200 VA4571	200	1	3000	3	185,000	**6052981**
DRL 300 VA4571	300	1	3000	3	275,000	**6052983**
DRL 400 VA4571	400	1	3000	3	354,000	**6052984**
DRL 500 VA4571	500	1.25	3000	3	637,660	**6052985**
DRL 600 VA4571	600	1.25	3000	3	755,340	**6052986**

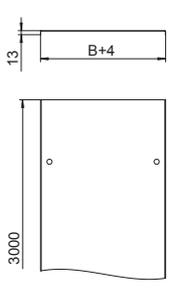
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /m

Transverse bead from 500 mm width.

Cover for cable trays and cable ladders with three pairs of turn buckles.

When using covers outdoors, additional measures against the influence of wind must be taken. Cover clamps or- turn buckles on their own are not sufficient securing elements against wind loads.

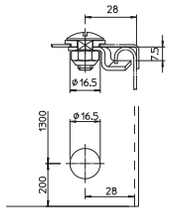




Always indicate the item number when ordering.

Turn buckle





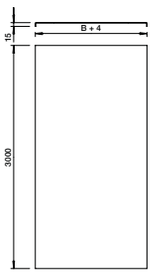
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DRLM 316 VA4301	10	2,800	**6222358**

V2A Stainless steel, grade 304 /pc.

Single-sided turn buckle. Use for cover widths of 50 – 600 mm.

Turn buckle for additional installation or installation at a later date.

Cover for stand-off mounting



Type	Width mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRL FAM 230 V2A	230	1.5	3000	3	299,670	**6051192**
DRL FAM 330 V2A	330	1.5	3000	3	417,330	**6051194**
DRL FAM 430 V2A	430	1.5	3000	3	535,000	**6051196**
DRL FAM 530 V2A	530	1.5	3000	3	653,000	**6051198**
DRL FAM 630 V2A	630	1.5	3000	3	770,670	**6051200**
DRL FAM 230 V4A	230	1.5	3000	3	299,670	**6051210**
DRL FAM 330 V4A	330	1.5	3000	3	417,330	**6051212**
DRL FAM 430 V4A	430	1.5	3000	3	535,000	**6051214**
DRL FAM 530 V4A	530	1.5	3000	3	653,000	**6051216**
DRL FAM 630 V4A	630	1.5	3000	3	770,670	**6051218**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /m

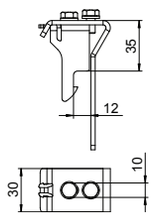
Spacers to be ordered separately. 6065475 for cable trays and ladders, 6065477 for the wide-span systems.

Cover for stand-off mounting.

When using covers outdoors, additional measures against the influence of wind must be taken. Cover clamps or turn buckles on their own are not sufficient securing elements against wind loads.

Spacer





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
AH 35 VA4301	35	8	14,100	**6065475**

V2A Stainless steel, grade 304 /pc.

Spacers for stand-off cover mounting on cable trays and cable ladders. Space height 35 mm, stainless steel 1.4301.

Always indicate the item number when ordering.

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Wide span cable ladder WKLG 110

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
WKLG 1120 VA4301	200	2	6	567,000	**6311202**
WKLG 1130 VA4301	300	2	6	593,000	**6311206**
WKLG 1140 VA4301	400	2	6	620,000	**6311210**
WKLG 1150 VA4301	500	2	6	630,000	**6311214**
WKLG 1160 VA4301	600	2	6	674,000	**6311218**
WKLG 1120 VA4571	200	2	6	567,000	**6311225**
WKLG 1130 VA4571	300	2	6	593,000	**6311227**
WKLG 1140 VA4571	400	2	6	620,000	**6311229**
WKLG 1150 VA4571	500	2	6	630,000	**6311231**
WKLG 1160 VA4571	600	2	6	674,000	**6311233**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /m



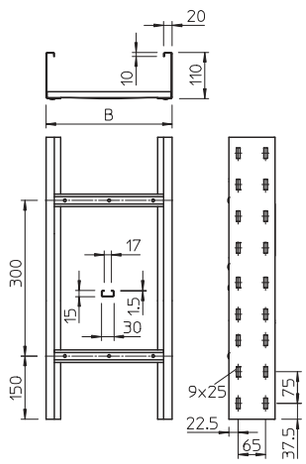
Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

WKLG 110 = wide span cable ladder with perforated side rails of side height of 110 mm.

Magnetic shield insulation without cover 10 dB, with cover 15 dB.

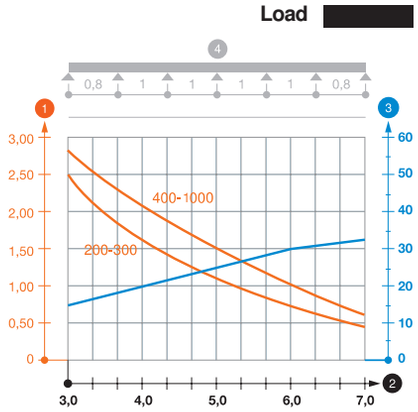
Dimensions

Type	Length mm	Dimension B mm	Useful cross-section cm²
WKLG 1120 VA4301	6000	200	186
WKLG 1130 VA4301	6000	300	281
WKLG 1140 VA4301	6000	400	376
WKLG 1150 VA4301	6000	500	471
WKLG 1160 VA4301	6000	600	566



Load

Type	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m
WKLG 1120 VA4301	2.3	1.6	1.1	0.8	0.4
WKLG 1130 VA4301	2.3	1.6	1.1	0.8	0.4
WKLG 1140 VA4301	2.3	2.1	1.5	1	0.7
WKLG 1150 VA4301	2.3	2.1	1.5	1	0.7
WKLG 1160 VA4301	2.3	2.1	1.5	1	0.7



Load diagram, wide span cable ladder, type WKLG 110.

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

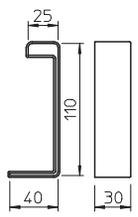
— Strut bend curve according to support width

End cap

Type	Colour	Pack. pair	Weight kg/100 pairs	Item No.
SKHW 110 OR	Pastel orange	20	4,400	**6310398**

PE Polyethylene /pair

End cap to cover the ends of wide span cable ladders.

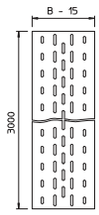




Always indicate the item number when ordering.

Insert plate





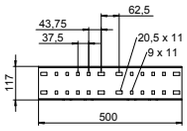
Type	Width mm	Length mm	Pack. m	Weight kg/100 m	Item No.
ELB-L20 VA4301	200	3000	3	132,000	**6103614**
ELB-L30 VA4301	300	3000	3	199,000	**6103618**
ELB-L40 VA4301	400	3000	3	264,000	**6103622**
ELB-L50 VA4301	500	3000	3	330,000	**6103626**
ELB-L60 VA4301	600	3000	3	395,000	**6103630**

V2A Stainless steel, grade 304 /m

Insert plate for use in cable ladders.

Straight connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRVL 110 VA4301	110	2	143,000	**6091229**
WRVL 110 VA4571	110	2	143,000	**6091234**

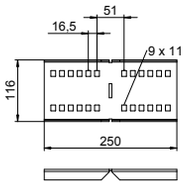
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

Including appropriate bolts, washers and nuts.

Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 110 mm.

Straight and angle connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWVK 110 VA4301	110	2	69,000	**6091393**
WRWVK 110 VA4571	110	2	69,000	**6091397**

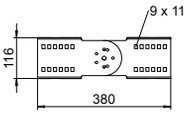
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 110 mm.

Adjustable connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRGV 110 VA4301	110	2	120,000	**6091338**
WRGV 110 VA4571	110	2	120,000	**6091343**

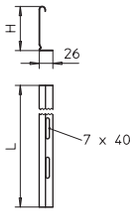
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

Including appropriate bolts, washers and nuts.

Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.

Barrier strip 85 mm





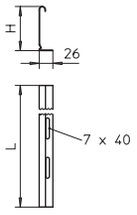
Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 85 VA4301	85	3000	3	69,670	**6062173**

V2A Stainless steel, grade 304 /m

Barrier strip for separation of cables of different voltages or functions.

Barrier strip 110 mm





Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 110 VA4301	110	3000	3	84,340	**6062255**

V2A Stainless steel, grade 304 /m

Barrier strip for separation of cables of different voltages or functions.

Always indicate the item number when ordering.

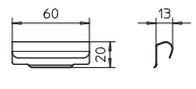
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Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**

V2A Stainless steel, grade 301 /pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.



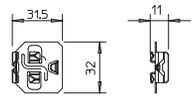


Hold-down clamp for barrier strip fastening

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KL VA4310	30	0,512	**6062284**

V2A Stainless steel, grade 301 /100 pc.

Hold-down clamp for screwless fastening of barrier strips in cable ladders.



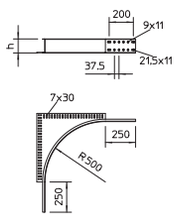


Add-on corner

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WEAS 110 VA4301	110	1	504,000	**6098483**

V2A Stainless steel, grade 304 /pc.

Add-on corner for wide span cable trays and ladders with a side height of 110 mm.





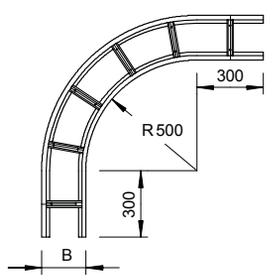
90° bend

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WLB 90 112VA4571	200	1	900,000	**6312550**
WLB 90 113VA4571	300	1	1.030,000	**6312552**
WLB 90 114VA4571	400	1	1.105,000	**6312554**
WLB 90 115VA4571	500	1	1.230,000	**6312556**
WLB 90 116VA4571	600	1	1.330,000	**6312558**

V4A Stainless steel, grade 316 Ti /pc.

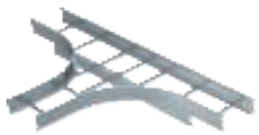
For further stabilisation, additional supports should be planned for the area of the fittings.
90° bend, horizontal, for all wide span cable ladders of 110 mm side height.





Always indicate the item number when ordering.

Tee

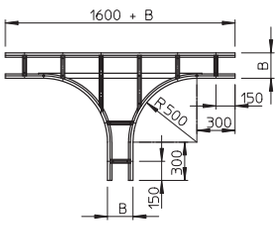


Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WLT 1120 VA4571	200	1	1.750,000	**6312815**
WLT 1130 VA4571	300	1	1.870,000	**6312817**
WLT 1140 VA4571	400	1	1.990,000	**6312819**
WLT 1150 VA4571	500	1	2.147,000	**6312821**
WLT 1160 VA4571	600	1	2.340,000	**6312823**

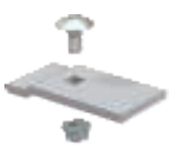
V4A Stainless steel, grade 316 Ti /pc.

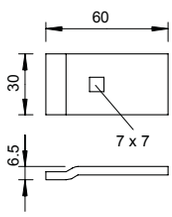
For further stabilisation, additional supports should be planned for the area of the fittings.

Horizontal tee, for all wide span cable ladders of 110 mm side height.



Hold-down clamp





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LKS 60 4 VA4301	10	8,000	**6221130**
LKS 60 4 VA4571	10	7,000	**6221157**

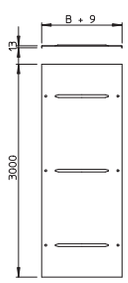
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

Fastening on brackets, type AW 15, AW 30 and AW 55, using the enclosed truss-head bolt FRS M6x20.

Hold-down clamp for fastening cable ladders.

Cover incl. turn buckles





Type	Width mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
WDRL 1116 20 V2A	200	1.5	3000	3	193,340	**6227360**
WDRL 1116 30 V2A	300	1.5	3000	3	272,000	**6227362**
WDRL 1116 40 V2A	400	1.5	3000	3	521,070	**6227364**
WDRL 1116 50 V2A	500	1.5	3000	3	660,000	**6227366**
WDRL 1116 60 V2A	600	1.5	3000	3	760,000	**6227368**

V2A Stainless steel, grade 304 /m

Cross beading from 500 mm width.

If a turn buckle is installed at a later time, the following dimensions of the drill hole arrangement should be maintained.

Cover for wide span trays and ladders with the side height 110 and 160 mm.

Take appropriate constructive protection measures if there are high wind speeds.

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Cover for stand off mounting

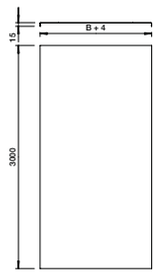
Type	Width mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRL FAM 230 V2A	230	1.5	3000	3	299,670	**6051192**
DRL FAM 330 V2A	330	1.5	3000	3	417,330	**6051194**
DRL FAM 430 V2A	430	1.5	3000	3	535,000	**6051196**
DRL FAM 530 V2A	530	1.5	3000	3	653,000	**6051198**
DRL FAM 630 V2A	630	1.5	3000	3	770,670	**6051200**
DRL FAM 230 V4A	230	1.5	3000	3	299,670	**6051210**
DRL FAM 330 V4A	330	1.5	3000	3	417,330	**6051212**
DRL FAM 430 V4A	430	1.5	3000	3	535,000	**6051214**
DRL FAM 530 V4A	530	1.5	3000	3	653,000	**6051216**
DRL FAM 630 V4A	630	1.5	3000	3	770,670	**6051218**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /m

Spacers to be ordered separately. 6065475 for cable trays and ladders, 6065477 for the wide-span systems.

Cover for stand-off mounting.

When using covers outdoors, additional measures against the influence of wind must be taken. Cover clamps or- turn buckles on their own are not sufficient securing elements against wind loads.

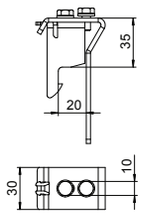


Spacer

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
AH 35 WS VA4301	35	8	14,500	**6065477**

V2A Stainless steel, grade 304 /pc.

Spacer for cover mounting on wide-span trays and ladders. 35mm spacing, stainless steel grade 304.





Wide span cable tray WKSG 110



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
WKSG 120 VA 4301	200	2	6	717,000	**6098161**
WKSG 130 VA 4301	300	2	6	825,000	**6098165**
WKSG 140 VA 4301	400	2	6	933,200	**6098169**
WKSG 150 VA 4301	500	2	6	1.041,200	**6098173**
WKSG 160 VA 4301	600	2	6	1.149,300	**6098177**

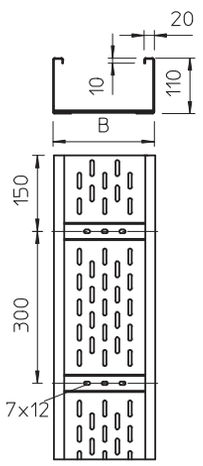
V2A Stainless steel, grade 304 /m

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

WKSG 110 = wide span cable tray system, perforated, with a side height of 110 mm.

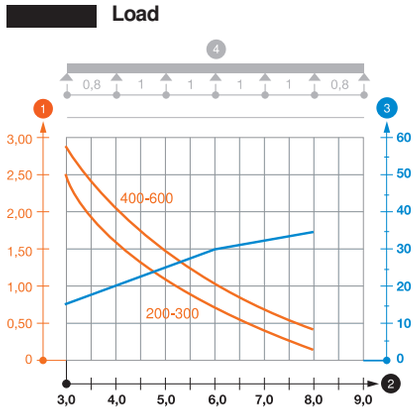
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Dimension B mm	Useful cross-section cm²
WKSG 120 VA 4301	6000	200	202
WKSG 130 VA 4301	6000	300	305
WKSG 140 VA 4301	6000	400	408
WKSG 150 VA 4301	6000	500	511
WKSG 160 VA 4301	6000	600	614

Load



Type	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKSG 120 VA 4301	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 130 VA 4301	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 140 VA 4301	2.9	2	1.5	1	0.7	0.4
WKSG 150 VA 4301	2.9	2	1.5	1	0.7	0.4
WKSG 160 VA 4301	2.9	2	1.5	1	0.7	0.4

Load diagram, wide span cable tray, type WKSG 110

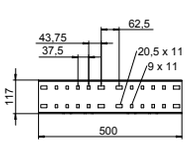
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Straight connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRVL 110 VA4301	110	2	143,000	**6091229**

V2A Stainless steel, grade 304 /pc.

Including appropriate bolts, washers and nuts.

Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 110 mm.

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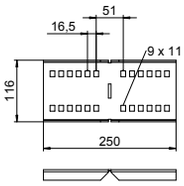
Straight and angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWVK 110 VA4301	110	2	69,000	**6091393**

V2A Stainless steel, grade 304 /pc.

Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 110 mm.





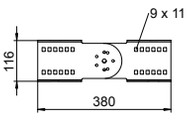
Adjustable connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRGV 110 VA4301	110	2	120,000	**6091338**

V2A Stainless steel, grade 304 /pc.

Including appropriate bolts, washers and nuts.

Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.



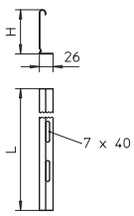


Barrier strip 85 mm

Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 85 VA4301	85	3000	3	69,670	**6062173**

V2A Stainless steel, grade 304 /m

Barrier strip for separation of cables of different voltages or functions.



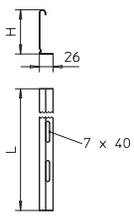


Barrier strip 110 mm

Type	Dimension H mm	Dim. L mm	Pack. m	Weight kg/100 m	Item No.
TSG 110 VA4301	110	3000	3	84,340	**6062255**

V2A Stainless steel, grade 304 /m

Barrier strip for separation of cables of different voltages or functions.



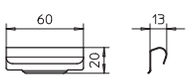


Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1,000	**6067970**

V2A Stainless steel, grade 301 /pc.

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.



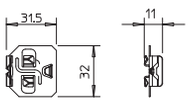


Hold-down clamp for barrier strip fastening

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KL VA4310	30	0,512	**6062284**

V2A Stainless steel, grade 301 /100 pc.

Hold-down clamp for screwless fastening of barrier strips in cable ladders.

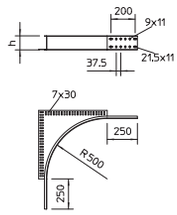




Always indicate the item number when ordering.

Add-on corner





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WEAS 110 VA4301	110	1	504,000	**6098483**

V2A Stainless steel, grade 304 /pc.

Add-on corner for wide span cable trays and ladders with a side height of 110 mm.

Joint plate

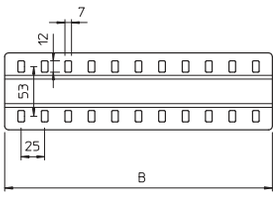


Type	Width mm	Quantity of screws pc.	Pack. pcs	Weight kg/100 pcs.	Item No.
SSLB 200 VA4301	185	2	20	16,700	**7070361**
SSLB 300 VA4301	285	3	20	25,700	**7070365**
SSLB 400 VA4301	385	4	20	34,700	**7070369**
SSLB 500 VA4301	485	5	20	43,700	**7070373**
SSLB 600 VA4301	585	6	20	52,700	**7070381**

V2A Stainless steel, grade 304 /pc.

Including appropriate fastening material.

Wide joint plate for use in all cable trays and wide span cable trays.



Always indicate the item number when ordering.

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Wide span cable tray WKSG 160

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
WKSG 162 VA 4301	200	2	6	871,800	**6098571**
WKSG 163 VA 4301	300	2	6	979,800	**6098573**
WKSG 164 VA 4301	400	2	6	1.088,000	**6098575**
WKSG 165 VA 4301	500	2	6	1.196,200	**6098577**
WKSG 166 VA 4301	600	2	6	1.304,300	**6098579**

V2A Stainless steel, grade 304 /m

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

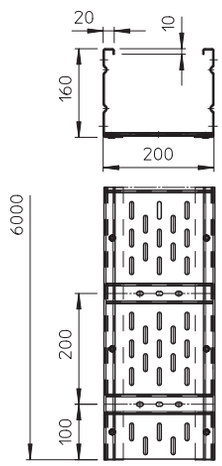
WKSG 110 = wide span cable tray system, perforated, with a side height of 110 mm.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.



Dimensions

Type	Length mm	Dimension B mm	Useful cross-section cm²
WKSG 162 VA 4301	6000	200	302
WKSG 163 VA 4301	6000	300	455
WKSG 164 VA 4301	6000	400	608
WKSG 165 VA 4301	6000	500	761
WKSG 166 VA 4301	6000	600	914



Load

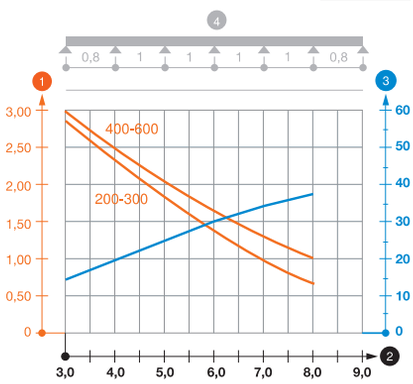
Type	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKSG 162 VA 4301	2.9	2.3	1.8	1.4	1	0.7
WKSG 163 VA 4301	2.9	2.3	1.8	1.4	1	0.7
WKSG 164 VA 4301	3	2.5	2	1.6	1.3	1
WKSG 165 VA 4301	3	2.5	2	1.6	1.3	1
WKSG 166 VA 4301	3	2.5	2	1.6	1.3	1

Load diagram, wide span cable tray, type WKSG 160

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width



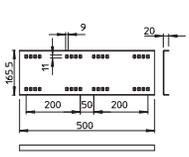
Straight connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRVL 160 VA4301	160	2	218,000	**6227724**

V2A Stainless steel, grade 304 /pc.

Including appropriate bolts, washers and nuts.

Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 160 mm.

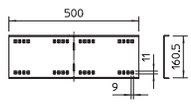




Always indicate the item number when ordering.

Straight and angle connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWVK 160 VA4301	160	2	186,000	**6227836**

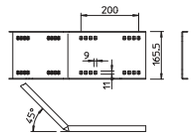
V2A Stainless steel, grade 304 /pc.

Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 160 mm.

45° angle connector, horizontal





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWV 160 I V2A	160	1	239,000	**6227914**

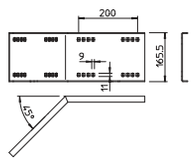
V2A Stainless steel, grade 304 /pc.

Including appropriate bolts, washers and nuts.

45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

45° angle connector, horizontal





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWV 160 A V2A	160	1	234,000	**6227868**

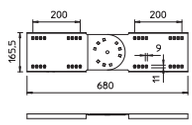
V2A Stainless steel, grade 304 /pc.

Including appropriate bolts, washers and nuts.

45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

Adjustable connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRGV 160 VA4301	160	2	310,000	**6227965**

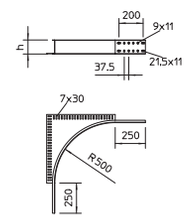
V2A Stainless steel, grade 304 /pc.

Including appropriate bolts, washers and nuts.

Adjustable connector for wide span cable trays and ladders with a side height of 160 mm.

Add-on corner





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WEAS 160 VA4301	160	1	702,000	**6098868**

V2A Stainless steel, grade 304 /pc.

Add-on corner for wide span cable trays and ladders with a side height of 110 mm.

Always indicate the item number when ordering.

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Joint plate

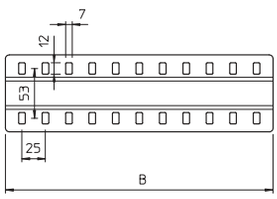
Type	Width mm	Quantity of screws pc.	Pack. pcs	Weight kg/100 pcs.	Item No.
SSLB 200 VA4301	185	2	20	16,700	**7070361**
SSLB 300 VA4301	285	3	20	25,700	**7070365**
SSLB 400 VA4301	385	4	20	34,700	**7070369**
SSLB 500 VA4301	485	5	20	43,700	**7070373**
SSLB 600 VA4301	585	6	20	52,700	**7070381**

V2A Stainless steel, grade 304 /pc.



Including appropriate fastening material.

Wide joint plate for use in all cable trays and wide span cable trays.



Always indicate the item number when ordering.

TP wall and ceiling bracket



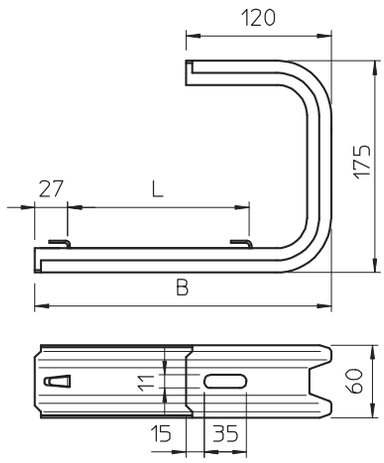
Type	For width mm	F in kN ceiling kN	F in kN Wall kN	Pack. pcs	Weight kg/100 pcs.	Item No.
TPDG 145 VA4301	100	1.3	1.4	6	53,000	**6365989**
TPDG 195 VA4301	150	0.95	1.05	6	60,000	**6365991**
TPDG 245 VA4301	200	0.8	0.87	5	67,000	**6365993**
TPDG 345 VA4301	300	0.5	0.55	5	81,000	**6365995**

V2A Stainless steel, grade 304 /pc.

Important! If the ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
Max. side height of the cable support system 60 mm.

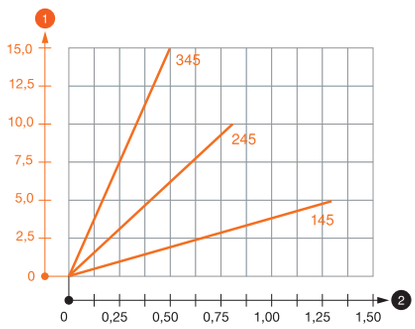
TP wall and ceiling bracket with clamping lugs for screwless mesh cable tray fastening.

Dimensions



Type	Dimension B mm	Dimension H mm
TPDG 145 VA4301	145	175
TPDG 195 VA4301	195	175
TPDG 245 VA4301	245	175
TPDG 345 VA4301	345	175

Load



Load diagram, ceiling bracket TPDG

1. Bending of the bracket tip at permitted bracket load
2. Approved bracket load in kN without man load
- Load curve with bracket lengths in mm

Characteristic anchor load values for TPDG wall and ceiling bracket

Wall fastening						
F F		Max. load F [kN]				
		Bracket length [mm]				
	Anchor type	145	245	345	445	545
	BZ-U 8-30/95	1,00	0,70	0,50	0,40	0,30
	BZ-U 10-30/110	1,50	0,90	0,55	0,45	0,35

Ceiling fastening						
		Max. load F [kN]				
		Bracket width [mm]				
	Anchor type	145	245	345	445	545
	BZ-U 8-30/95	1,30	0,80	0,50	0,35	0,25
	BZ-U 10-30/110	1,30	0,80	0,50	0,35	0,25

Max. total load F = cable weight + cable tray + ceiling clamp. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25.

Always indicate the item number when ordering.

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TP support

Type	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
TPS 445 VA4301	1.05	15	72,000	**6364848**
TPS 545 VA4301	0.8	15	85,000	**6364850**
TPS 645 VA4301	0.61	15	99,000	**6364852**

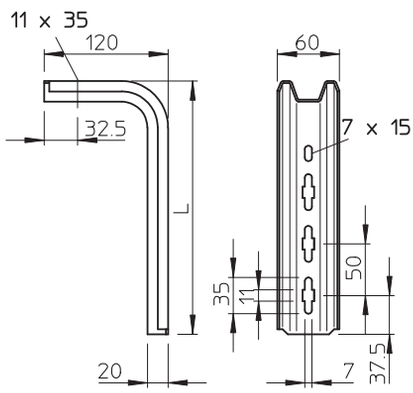
V2A Stainless steel, grade 304 /pc.

If the profile is fastened directly to the ceiling or the profile is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.
Important: only use brackets of length 345 mm or less.
TP support for fastening to horizontal concrete ceilings.



Dimensions

Type	Length mm
TPS 445 VA4301	445
TPS 545 VA4301	545
TPS 645 VA4301	645

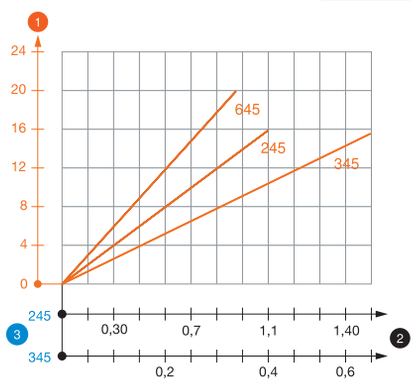


Load diagram, TP supports, type TPS

Load

1. Bending of the end of the suspended support at permitted bracket load
2. Approved bracket load in kN without man load
3. Bracket length in mm

— Load curves with support lengths in mm



Characteristic anchor load values for TP support

Single-sided load				
	Max. load F [kN]			
	Bracket width [mm]			
Anchor type	145	245	345	
BZ-U 8-30/95	1,50	1,00	0,65	
BZ-U 10-30/110	1,50	1,50	0,65	

Double-sided load			
	Max. load F [kN]		
	Bracket width [mm]		
Anchor type	145	245	345
BZ-U 8-30/95	1,50	1,50	1,20
BZ-U 10-30/110	1,50	1,50	1,50

Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing ai = 17 cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

Always indicate the item number when ordering.

TP support / wall and support bracket



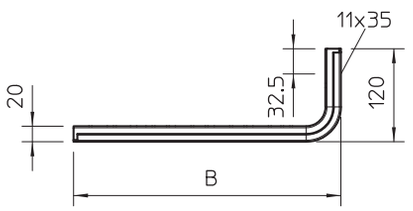
Type	For width mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
TPSA 145 VA4301	100	1.5	50	32,000	**6364871**
TPSA 245 VA4301	200	0.9	20	45,000	**6364876**
TPSA 345 VA4301	300	0.55	20	59,000	**6364881**

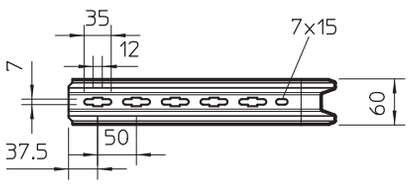
V2A Stainless steel, grade 304 /pc.

If the profile is fastened directly to the ceiling or the profile is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.

TP support/bracket for fastening to horizontal concrete ceilings and walls.

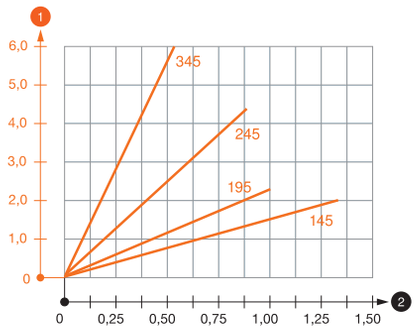
Dimensions





Type	Dimension B mm	Dimension H mm
TPSA 145 VA4301	145	120
TPSA 245 VA4301	245	120
TPSA 345 VA4301	345	120

Load



Load diagram, bracket TPSA

1. Bending of the bracket tip at permitted bracket load
2. Approved bracket load in kN without man load

— Load curve with bracket lengths in mm

Characteristic anchor load values for TP bracket

Wall fastening					
F F		Max. load F [kN]			
		Bracket width [mm]			
	Anchor type	145	195	245	345
	BZ-U 8-30/95	1,00	0,80	0,70	0,50
	BZ-U 10-30/110	1,50	1,00	0,90	0,55

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Always indicate the item number when ordering.

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TP support / wall and support bracket

Type	For width mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
TPSAG 145 VA4301	100	1.5	50	32,000	**6366145**
TPSAG 195 VA4301	150	1	20	40,000	**6366146**
TPSAG 245 VA4301	200	0.9	20	47,000	**6366148**
TPSAG 345 VA4301	300	0.55	20	61,000	**6366149**

V2A Stainless steel, grade 304 /pc.

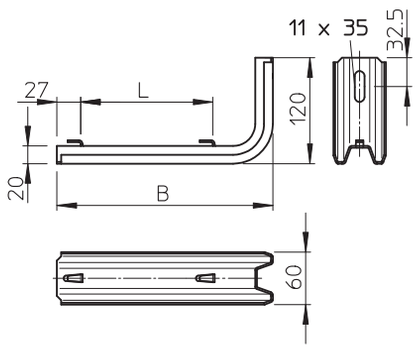
If the bracket is fastened directly to the wall or the profiles are screwed together, then, for reasons of stability, always use the spacer, type DS 4.

TP bracket with clamping lugs for screwless mesh cable tray fastening.



Dimensions

Type	Dimension B mm	Dim. L mm
TPSAG 145 VA4301	145	50
TPSAG 195 VA4301	195	100
TPSAG 245 VA4301	245	150
TPSAG 345 VA4301	345	250

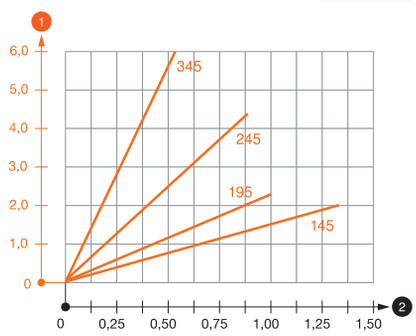


Load

Load diagram, bracket TPSAG

1. Bending of the bracket tip at permitted bracket load
2. Approved bracket load in kN without man load

— Load curve with bracket lengths in mm



Characteristic anchor load values for TP bracket

Bracket load				
	Anchors	Max. total load F in kN		
	Approx.	Bracket length in mm		
	F kN	145	245	345
	2,4	1,50	0,90	0,55
	4,3	1,50	1,20	0,80

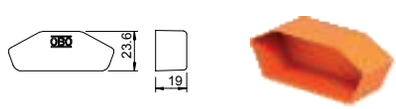
Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

End cap

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
TPS KS OR	Pastel orange	10	0,700	**6364625**

PE Polyethylene /pc.

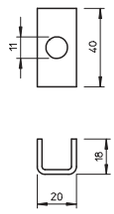
End cap to cover ends of TP supports.



Always indicate the item number when ordering.

Spacer





Type		Pack. pcs	Weight kg/100 pcs.	Item No.
DS 4 VA4301		10	3,700	**6416594**

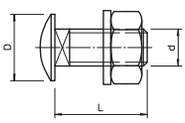
V2A Stainless steel, grade 304 /pc.

For static reasons, the spacer is always used to prevent the profile from deforming when the fastening bolts are tightened.

Spacer for use in profiles, type TP.

Truss-head bolt





Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Grade	Pack. pcs	Weight kg/100 pcs.	Item No.
FRS 10x25 TPS A2	M10x25	25	10	18	A2-70	50	4,000	**6407537**

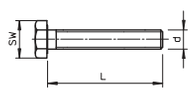
V2A Stainless steel, A2 /100 pc.

The truss-head screw can be used in combination with hot-dip and double-dip galvanised articles.

Truss-head bolt with square neck. With washer and hexagonal nut.

Hexagonal bolt





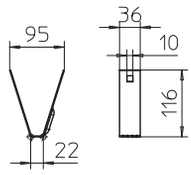
Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Grade	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 10x30 A4	M10x30	30	10	17	A4-70	50	3,000	**3160752**

V4A Stainless steel, A4 /100 pc.

Hexagonal bolt for universal fixing of structure components.

Ceiling bracket, trapezoidal





Type	Material thickness mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
TPB 100 VA4301	1.5	0.8	20	9,900	**6357516**

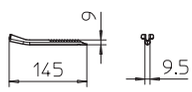
V2A Stainless steel, grade 304 /pc.

Important: Observe the statics of the trapezoidal metal ceiling.

Ceiling bracket for fastening to standard trapezoidal ceilings.

Splint for trapezoidal ceiling bracket





Type	Material thickness mm	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
TPB R VA4301	1.5	0.8	20	3,700	**6357538**

V2A Stainless steel, grade 304 /pc.

Important: Observe the statics of the trapezoidal metal ceiling.

Splint for fastening and securing the ceiling bracket to trapezoidal ceilings.

Always indicate the item number when ordering.

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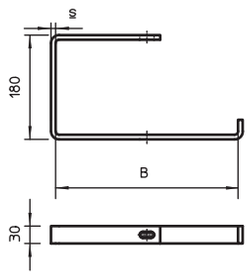
Ceiling bracket

Type	Width mm	Dimension s mm	Hole-Ø mm	F in kN ceiling kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AHB 100 VA4571	100	6	11	0.6	1	53,000	**6363905**
AHB 150 VA4571	150	8	11	0.6	1	86,000	**6363909**
AHB 200 VA4571	200	8	11	0.6	1	100,000	**6363913**
AHB 300 VA4571	300	8	11	0.35	1	128,000	**6363940**
AHB 400 VA4571	400	8	11	0.3	1	155,000	**6363948**

V4A Stainless steel, grade 316 Ti /pc.

Ceiling bracket for cable support systems.



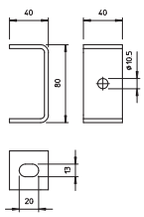


Ceiling bracket

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DB VA 4571	10	16,000	**6356113**

V4A Stainless steel, grade 316 Ti /pc.

Ceiling bracket for threaded rod suspension.



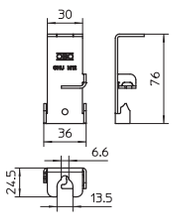


Side holder, universal

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
SHU M12 VA4301	50	5,100	**6015326**
SHU M12 VA4571	50	5,100	**6015328**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

Side holder to fasten cable trays, mesh cable trays and cable ladders to ceilings using a threaded rod.



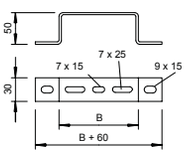


Stand-off bracket

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBL 50 100VA4571	100	10	15,500	**6015630**
DBL 50 200VA4571	200	10	22,800	**6015632**
DBL 50 300VA4571	300	10	36,900	**6015633**
DBL 50 400VA4571	400	10	46,300	**6015634**

V4A Stainless steel, grade 316 Ti /pc.

Stand-off bracket for cable trays and mesh cable trays.

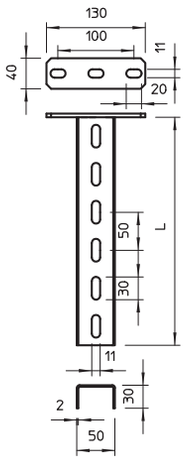




Always indicate the item number when ordering.

US 3 support





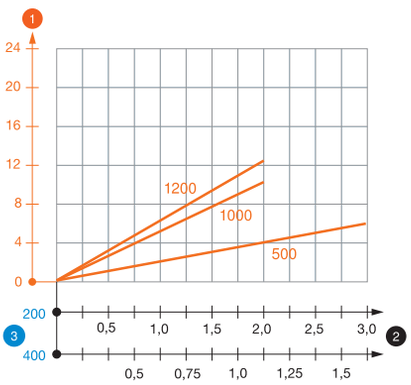
Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 3 K 20VA4301	200	2	1	44,000	**6342401**
US 3 K 30VA4301	300	2	1	58,000	**6342403**
US 3 K 40VA4301	400	2	1	71,000	**6342405**
US 3 K 50VA4301	500	2	1	84,000	**6342407**
US 3 K 60VA4301	600	2	1	97,000	**6342409**
US 3 K 70VA4301	700	2	1	110,000	**6342411**
US 3 K 80VA4301	800	2	1	123,000	**6342413**
US 3 K 90VA4301	900	2	1	137,000	**6342415**
US 3 K 100VA4301	1000	2	1	150,000	**6342417**
US 3 K 20VA4571	200	2	1	44,000	**6342375**
US 3 K 30VA4571	300	2	1	58,000	**6342530**
US 3 K 40VA4571	400	2	1	71,000	**6342379**
US 3 K 50VA4571	500	2	1	84,000	**6342381**
US 3 K 60VA4571	600	2	1	97,000	**6342389**
US 3 K 70VA4571	700	2	1	110,000	**6342391**
US 3 K 80VA4571	800	2	1	123,000	**6342393**
US 3 K 90VA4571	900	2	1	137,000	**6342395**
US 3 K 100VA4571	1000	2	1	150,000	**6342397**
US 3 K110 VA4571	1100	2	1	166,000	**6342396**
US 3 K120 VA4571	1200	2	1	110,000	**6342398**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

GB pickled

Suspended support (U profile) of dimensions 50 x 30 mm with welded head plate.

Load



Load diagram, U support, type US 3 K

1. Bending of the end of the suspended support at permitted bracket load
2. Approved bracket load in kN without man load
3. Bracket length in mm

— Load curves with support lengths in mm

Characteristic anchor load values for US 3 K suspended support

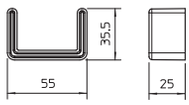
Single-sided load					
		Max. load F [kN]			
		Bracket width [mm]			
	Anchor type	110	210	310	410
	BZ-U 8-10/75	2,00	1,50	1,15	0,90
	BZ-U 10-10/90	3,50	2,70	2,00	1,75

Double-sided load					
		Max. load F [kN]			
		Bracket width [mm]			
	Anchor type	110	210	310	410
	BZ-U 8-10/75	3,75	3,25	2,80	2,50
	BZ-U 10-10/90	5,50	5,80	5,00	4,50

Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing ai = 10 cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

End cap





Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
US 3 KS OR	Pastel orange	20	1,070	**6338458**

PE Polyethylene /pc.

End cap to cover the ends of US 3 supports.

Always indicate the item number when ordering.

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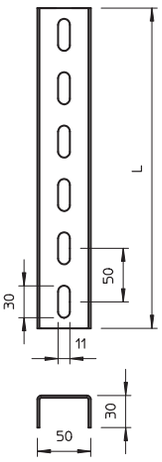
US 3 support

Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 3 30 VA4301	300	2	1	40,000	**6342455**
US 3 50 VA4301	500	2	1	66,000	**6342457**
US 3 100 VA4301	1000	2	1	132,000	**6342460**
US 3 150 VA4301	1500	2	1	198,000	**6342463**
US 3 200 VA4301	2000	2	1	263,000	**6342466**
US 3 600 VA4301	6000	2	1	790,000	**6342468**
US 3 30 VA4571	300	2	1	40,000	**6342485**
US 3 50 VA4571	500	2	1	66,000	**6342488**
US 3 100 VA4571	1000	2	1	132,000	**6342491**
US 3 150 VA4571	1500	2	1	198,000	**6342494**
US 3 200 VA4571	2000	2	1	263,000	**6342497**
US 3 600 VA4571	6000	2	1	790,000	**6342505**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

U support in fixed lengths. Dimensions 30 x 50 mm.





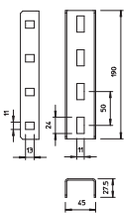
U support connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VUS 3 VA4301	1	25,600	**6018517**
VUS 3 VA4571	1	48,000	**6018520**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

Including appropriate fastening material.

U support connector to connect US 3 supports.



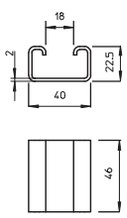


Spacer

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DSK 25 VA4301	10	7,500	**6416448**
DSK 25 VA4571	10	7,500	**6416450**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

Spacer for use in U 3 supports.





Head plate

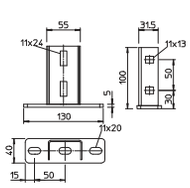
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KU 3 VA4301	10	41,000	**6348876**
KU 3 VA4571	10	41,000	**6348877**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

GB pickled

The head plate can be mounted to fixed lengths of the U support, type US 3.
Including appropriate fastening material.

Head plate for mounting on US 3 supports.





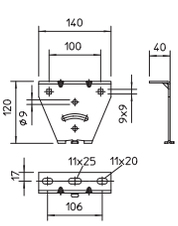
Head plate, variable

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KU 3 V VA4301	20	40,000	**6348884**

V2A Stainless steel, grade 304 /pc.

The variable head plate can be mounted to fixed lengths of the U support, type US 3, or profile rails, type 2068.

Head plate for installation on US 3 supports and profile rails, type 2068.

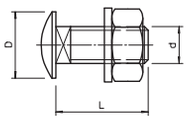




Always indicate the item number when ordering.

Truss-head bolt





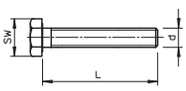
Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Grade	Pack. pcs	Weight kg/100 pcs.	Item No.
FRS 10x25 A2	M10 x 25	25	10	24	A2-70	50	4,500	**6406718**
FRS 10x25 A4	M10 x 25	25	10	24	A4-70	50	4,500	**6407524**

V2A Stainless steel, A2 V4A Stainless steel, A4 /100 pc.

Truss-head bolt with square neck including washer and hexagonal nut.

Hexagonal bolt





Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Grade	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 10x80 A4	M10 x 80	80	10	17	A4-70	20	7,800	**6418248**
SKS 10x90 A2	M10 x 90	90	10	17	A2-70	20	10,038	**6418255**
SKS 10x90 A4	M10 x 90	90	10	17	A4-70	20	7,800	**6418256**

V2A Stainless steel, A2 V4A Stainless steel, A4 /100 pc.

Hexagonal bolt for universal fixing of structure components.

Always indicate the item number when ordering.

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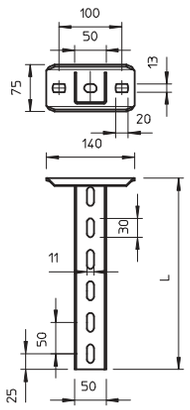
US 5 support

Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 K 20 VA4301	200	2.5	1	100,000	**6341358**
US 5 K 30 VA4301	300	2.5	1	125,000	**6341362**
US 5 K 40 VA4301	400	2.5	1	150,000	**6341366**
US 5 K 50 VA4301	500	2.5	1	175,000	**6341370**
US 5 K 60 VA4301	600	2.5	1	200,000	**6341374**
US 5 K 70 VA4301	700	2.5	1	225,000	**6341378**
US 5 K 80 VA4301	800	2.5	1	255,000	**6341382**
US 5 K 90 VA4301	900	2.5	1	280,000	**6341386**
US 5 K 100VA4301	1000	2.5	1	300,000	**6341390**
US 5 K 110VA4301	1100	2.5	1	330,000	**6341394**
US 5 K 120VA4301	1200	2.5	1	360,000	**6341398**
US 5 K 20 VA4571	200	2.5	1	100,000	**6341209**
US 5 K 30 VA4571	300	2.5	1	125,000	**6341213**
US 5 K 40 VA4571	400	2.5	1	150,000	**6341217**
US 5 K 50 VA4571	500	2.5	1	175,000	**6341221**
US 5 K 60 VA4571	600	2.5	1	200,000	**6341225**
US 5 K 70 VA4571	700	2.5	1	225,000	**6341228**
US 5 K 80 VA4571	800	2.5	1	255,000	**6341233**
US 5 K 90 VA4571	900	2.5	1	280,000	**6341237**
US 5 K 100VA4571	1000	2.5	1	300,000	**6341241**
US 5 K 110VA4571	1100	2.5	1	360,000	**6341245**
US 5 K 120VA4571	1200	2.5	1	360,000	**6341249**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

GB pickled

Suspended support (U profile) with welded head plate.



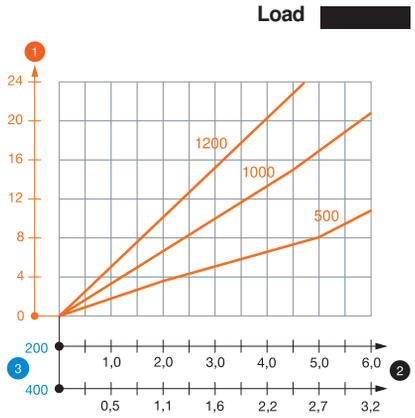


Load diagram, U support, type US 5 K VA

1. Bending of the end of the suspended support at permitted bracket load
2. Approved bracket load in kN without man load
3. Bracket length in mm

— Load curves with support lengths in mm

Load



Characteristic anchor load values for US 5 K support

Single-sided load					
	Max. load F [kN]				
	Bracket width [mm]				
Anchor type	110	210	310	410	
BZ-U 10-10/90	3,75	2,75	2,20	1,80	
BZ 70 M12-15/110	5,75	4,75	3,85	3,25	

Double-sided load						
	Max. load F [kN]					
	Bracket width [mm]					
Anchor type	110	210	310	410	510	610
BZ-U 10-10/90	5,50	5,80	5,00	4,50	3,80	1,75
BZ 70 M12-15/110	10,00	10,00	9,00	8,00	6,75	5,50

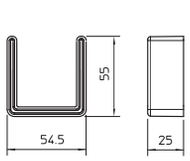
Max. total load F = cable weight + cable tray + bracket + support. The tabular values for double-sided loads take the available axis spacing ai = 10 cm into account. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

End cap

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 KS OR	Pastel orange	20	1,300	**6338462**

PE Polyethylene /pc.

End cap to cover the ends of US 5 supports.

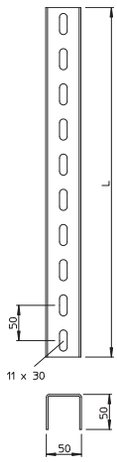




Always indicate the item number when ordering.

US 5 support





Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 20 VA4301	200	2.5	1	48,000	**6341101**
US 5 30 VA4301	300	2.5	1	72,000	**6341105**
US 5 40 VA4301	400	2.5	1	97,000	**6341109**
US 5 50 VA4301	500	2.5	1	121,000	**6341113**
US 5 70 VA4301	700	2.5	1	169,000	**6341121**
US 5 80 VA4301	800	2.5	1	193,000	**6341125**
US 5 90 VA4301	900	2.5	1	217,000	**6341129**
US 5 100 VA4301	1000	2.5	1	242,000	**6341133**
US 5 110 VA4301	1100	2.5	1	266,000	**6341137**
US 5 120 VA4301	1200	2.5	1	290,000	**6341141**
US 5 300 VA4301	3000	2.5	1	726,000	**6341152**
US 5 30 VA4571	300	2.5	1	73,000	**6341053**
US 5 40 VA4571	400	2.5	1	97,000	**6341055**
US 5 50 VA4571	500	2.5	1	121,000	**6341057**
US 5 60 VA4571	600	2.5	1	145,000	**6341059**
US 5 80 VA4571	800	2.5	1	193,000	**6341063**
US 5 90 VA4571	900	2.5	1	217,000	**6341065**
US 5 300 VA4571	3000	2.5	1	726,000	**6341073**

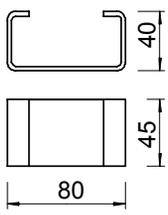
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.

U support in fixed lengths. Dimensions 50 x 50 mm.

Spacer





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DSK 45 VA4301	10	15,000	**6416489**
DSK 45 VA4571	10	15,000	**6416462**

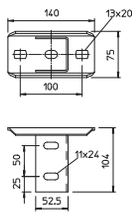
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the hexagonal bolts.

Spacer for use in U 5 supports.

Head plate, transverse version





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KUS 5 NOK VA4301	10	61,000	**6348947**

V2A Stainless steel, grade 304 /pc.

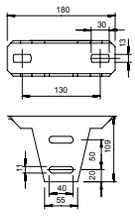
GB pickled

When installing the head plate, please use the spacer, type DSK 45.

Head plate for installation in US 5 support.

Head plate, variable version





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KU 5 V VA4301	4	81,000	**6348925**

V2A Stainless steel, grade 304 /pc.

The spacer, type DSK 47, is used to install the head plate.

Variable head plate for installation on US 5 support.

Always indicate the item number when ordering.

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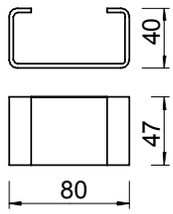
Spacer

Type		Pack. pcs	Weight kg/100 pcs.	Item No.
DSK 47 VA4301		10	16,000	**6416507**
DSK 47 VA4571		10	16,000	**6416511**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

For static reasons, the spacer is always used to increase stability to prevent the head plate from deforming when the bolts are tightened.

Spacer for use in head plate, type KU 5 V.



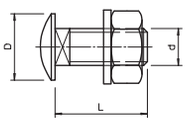


Truss-head bolt

Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Grade	Pack. pcs	Weight kg/100 pcs.	Item No.
FRS 10x25 A2	M10 x 25	25	10	24	A2-70	50	4,500	**6406718**
FRS 10x25 A4	M10 x 25	25	10	24	A4-70	50	4,500	**6407524**

V2A Stainless steel, A2 V4A Stainless steel, A4 /100 pc.

Truss-head bolt with square neck including washer and hexagonal nut.



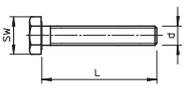


Hexagonal bolt

Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Grade	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 10x80 A4	M10 x 80	80	10	17	A4-70	20	7,800	**6418248**
SKS 10x90 A2	M10 x 90	90	10	17	A2-70	20	10,038	**6418255**
SKS 10x90 A4	M10 x 90	90	10	17	A4-70	20	7,800	**6418256**

V2A Stainless steel, A2 V4A Stainless steel, A4 /100 pc.

Hexagonal bolt for universal fixing of structure components.



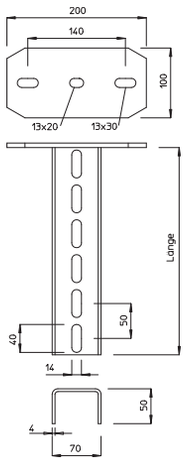


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Always indicate the item number when ordering.

US 7 support





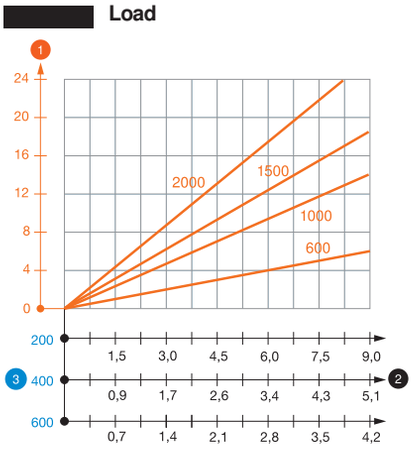
Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 7 K 20 VA4301	200	4	1	173,000	**6338607**
US 7 K 30 VA4301	300	4	1	213,000	**6338615**
US 7 K 40 VA4301	400	4	1	253,000	**6338623**
US 7 K 50 VA4301	500	4	1	293,000	**6338631**
US 7 K 60 VA4301	600	4	1	332,000	**6338658**
US 7 K 70 VA4301	700	4	1	372,000	**6338666**
US 7 K 80 VA4301	800	4	1	412,000	**6338674**
US 7 K 90 VA4301	900	4	1	452,000	**6338682**
US 7 K 100VA4301	1000	4	1	491,000	**6338690**
US 7 K 110VA4301	1100	4	1	531,000	**6338704**
US 7 K 120VA4301	1200	4	1	571,000	**6338712**
US 7 K 140VA4301	1400	4	1	650,000	**6338739**
US 7 K 150VA4301	1500	4	1	690,000	**6338747**
US 7 K 200VA4301	2000	4	1	889,000	**6338801**
US 7 K 100VA4571	1000	4	1	491,000	**6338872**
US 7 K 200VA4571	2000	4	1	889,000	**6338881**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

GB pickled

Suspended support (U profile) with welded head plate.

Load



Load diagram, U support, type US 7 K VA

1. Bending of the end of the suspended support at permitted bracket load
2. Approved bracket load in kN without man load
3. Bracket length in mm
- Load curves with support lengths in mm

Characteristic anchor load values for U support, type US 7 K

Single-sided load

Anchor type	Max. load F [kN] Bracket width [mm] 110	210	310	410	510	610
BZ-U 10-10/90	4,25	3,25	2,50	2,25	2,00	1,75
BZ 70 M12-15/110	7,25	5,50	4,50	4,00	3,50	3,00

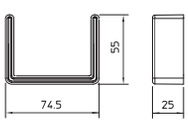
Double-sided load

Anchor type	Max. load F [kN] Bracket width [mm] 110	210	310	410	510	610
BZ-U 10-10/90	7,25	6,25	5,75	5,25	4,80	4,50
BZ 70 M12-15/110	11,00	11,00	10,00	9,00	8,50	8,00

Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing ai = 14 cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

End cap





Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
US 7 KS OR	Pastel orange	20	1,800	**6338497**

PE Polyethylene /pc.

End cap to cover the ends of US 7 supports.

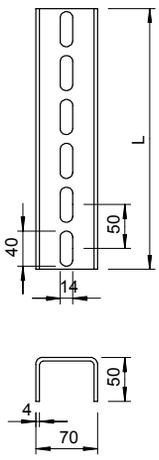
US 7 support

Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 7 50 VA4301	500	4	1	199,000	**6341764**
US 7 100 VA4301	1000	4	1	397,000	**6341810**
US 7 150 VA4301	1500	4	1	596,000	**6341861**
US 7 200 VA4301	2000	4	1	795,000	**6341950**
US 7 300 VA4301	3000	4	1	1.192,000	**6341969**
US 7 600 VA4301	6000	4	1	2.384,000	**6341993**
US 7 600 VA4571	6000	4	1	2.384,000	**6341995**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

U support in fixed lengths. Dimensions 70 x 50 mm.





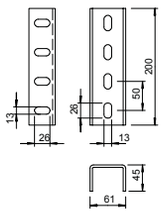
U support connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VUS 7 VA4301	1	110,000	**6018408**

V2A Stainless steel, grade 304 /pc.

Including appropriate fastening material.

U support connector to connect US 7 supports.





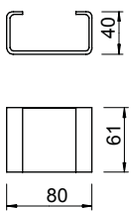
Spacer

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DSK 61 VA4301	10	25,000	**6416527**
DSK 61 VA4571 10	10	25,000	**6416533**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the hexagonal bolts.

Spacer for use in U 7 supports.





Head plate, heavy-duty

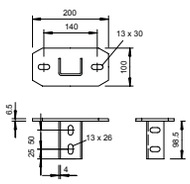
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KUS 7 VA4301	10	140,000	**6349277**

V2A Stainless steel, grade 304 /pc.

GB pickled

Please order fastening material (two truss-head bolts FRS 12 x 25) separately.

Heavy-duty head plate for installation in US 7 supports.





Head plate, variable

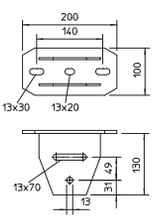
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KU 7 VQP VA4301	1	180,000	**6349196**

V2A Stainless steel, grade 304 /pc.

GB pickled

Please order fastening material (two hexagonal bolts SKS 12 x 100 and spacer DSK 45) separately.

Variable head plate for installation on US 7 support.

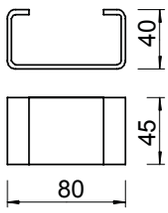




Always indicate the item number when ordering.

Spacer





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DSK 45 VA4301	10	15,000	**6416489**
DSK 45 VA4571	10	15,000	**6416462**

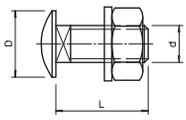
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the hexagonal bolts.

Spacer for use in U 5 supports.

Truss-head bolt





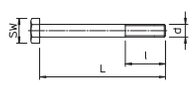
Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Grade	Pack. pcs	Weight kg/100 pcs.	Item No.
FRS 12x25 A2	M12 x 25	25	12	30	A2-70	25	6,400	**6406750**
FRS 10x25 A4	M10 x 25	25	10	24	A4-70	50	4,500	**6407524**

V2A Stainless steel, A2 V4A Stainless steel, A4 /100 pc.

Truss-head bolt with square neck including washer and hexagonal nut.

Hexagonal bolt





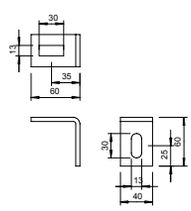
Type	Dimension mm	Dim. L mm	Dim. l mm	Dim. d mm	SW mm	Grade	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 12x80 A2	M12 x 80	80	30	12	19	A2-70	20	11,800	**6418279**
SKS 12x100 A2	M12 x 100	100	30	12	19	A2-70	20	12,000	**6418368**
SKS 12x110 A2	M12 x 110	110	30	12	19	A2-70	20	14,500	**6418376**

V2A Stainless steel, A2 /100 pc.

Hexagonal bolt for universal fixing of structure components.

Mounting angle





Type	Pack. pcs	Weight kg/100 pcs.	Item No.
BW 60 40 VA4301	10	22,000	**6019587**
BW 60 40 VA4571	10	22,000	**6019583**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

Including truss-head bolt M12 x 25.

Mounting angle of limb dimension 60 x 60 mm.

Always indicate the item number when ordering.

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Wall and support bracket AW 15

Type	Width mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AW 15 11 VA4301	110	1.5	30	14,000	**6421008**
AW 15 21 VA4301	210	1.5	30	25,600	**6421024**
AW 15 31 VA4301	310	1.5	30	32,500	**6421032**
AW 15 41 VA4301	410	1.5	30	55,000	**6421036**
AW 15 51 VA4301	510	1.5	20	68,000	**6421040**
AW 15 61 VA4301	610	1.5	20	85,000	**6421044**
AW 15 11 VA4571	110	1.5	30	14,000	**6392008**
AW 15 21 VA4571	210	1.5	30	25,600	**6392016**
AW 15 31 VA4571	310	1.5	30	35,200	**6392024**
AW 15 41 VA4571	410	1.5	30	55,000	**6392032**
AW 15 51 VA4571	510	1.5	20	68,000	**6392040**
AW 15 61 VA4571	610	1.5	20	85,000	**6392059**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

GB pickled

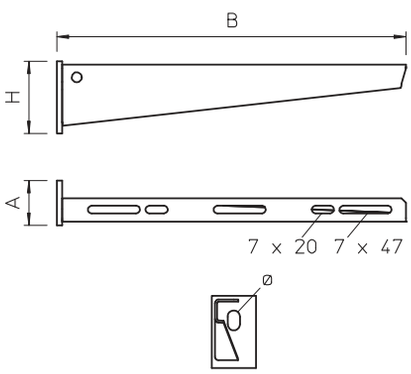


Fastening of the bracket to the U support of width 400 mm or greater using hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate.

Dimensions

Type	Width mm	Dimension A mm	Dimension H mm	Hole-Ø mm
AW 15 11 VA4301	110	40	50	11
AW 15 21 VA4301	210	40	60	11
AW 15 31 VA4301	310	40	65	11
AW 15 41 VA4301	410	40	70	11
AW 15 51 VA4301	510	40	75	11
AW 15 61 VA4301	610	40	80	11

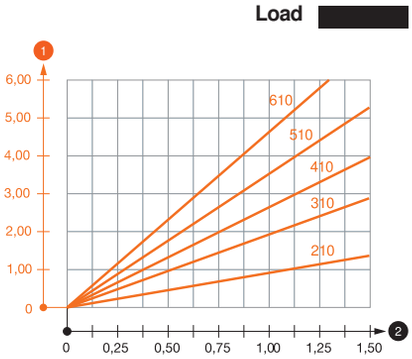


Load diagram, bracket AW 15 VA

1. Bending of the bracket tip at permitted bracket load
2. Approved bracket load in kN without man load

— Load curve with bracket lengths in mm

Load



Characteristic anchor load values for wall bracket AW 15

Bracket load							
F F	Anchors	Max. total load F in kN					
	Approx.	Bracket length in mm					
	F kN	100	200	300	400	500	600
	3.57	1,09	0,90	0,73	0,65	0,61	0,55

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Always indicate the item number when ordering.

Wall and support bracket AWG 15



Type	Width mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AWG 15 11 VA4301	110	1.5	30	13,000	**6420625**
AWG 15 21 VA4301	210	1.5	30	25,000	**6420628**
AWG 15 31 VA4301	310	1.5	30	33,000	**6420631**
AWG 15 41 VA4301	410	1.5	30	53,000	**6420634**
AWG 15 51 VA4301	510	1.5	20	65,000	**6420637**
AWG 15 61 VA4301	610	1.5	20	80,000	**6420640**
AWG 15 11 VA4571	110	1.5	30	13,000	**6420642**
AWG 15 21 VA4571	210	1.5	30	25,000	**6420644**
AWG 15 31 VA4571	310	1.5	30	33,000	**6420646**
AWG 15 41 VA4571	410	1.5	30	53,000	**6420648**
AWG 15 51 VA4571	510	1.5	20	65,000	**6420650**
AWG 15 61 VA4571	610	1.5	20	80,000	**6420652**

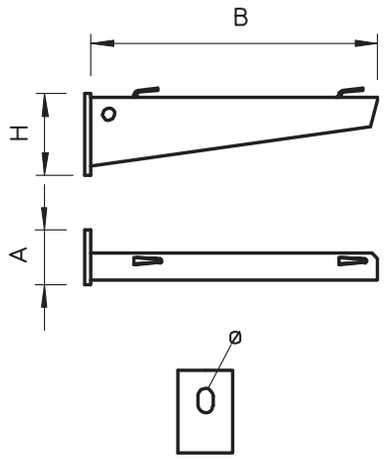
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

GB pickled

Fastening of the bracket to the U support of width 400 mm or greater using hexagonal bolt through both sides of the support. Please insert suitable spacers.

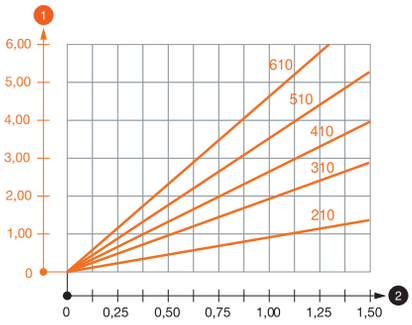
Light-duty wall and support bracket with welded head plate for screwless mesh cable tray fastening.

Dimensions



Type	Width mm	Dimension A mm	Dimension H mm	Hole-Ø mm
AWG 15 11 VA4301	110	40	50	11
AWG 15 21 VA4301	210	40	60	11
AWG 15 31 VA4301	310	40	65	11
AWG 15 41 VA4301	410	40	70	11
AWG 15 51 VA4301	510	40	75	11
AWG 15 61 VA4301	610	40	80	11

Load



Load diagram, bracket type AW G 15

1 Bending of the bracket tip at permitted bracket load

2 Approved bracket load in kN without man load

— Load curve with bracket lengths in mm

Characteristic anchor load values for wall and support bracket AW G 15

Bracket load							
F F	Anchors	Max. total load F in kN					
	Approx.	Bracket length in mm					
	F kN	100	200	300	400	500	600
	3.57	1,09	0,90	0,73	0,65	0,61	0,55

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Wall and support bracket AW 30

Type	Width mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AW 30 11 VA4301	110	3	1	21,200	**6442803**
AW 30 21 VA4301	210	3	1	38,200	**6442838**
AW 30 31 VA4301	310	3	1	61,000	**6442854**
AW 30 41 VA4301	410	3	1	86,000	**6442870**
AW 30 51 VA4301	510	3	1	126,000	**6442897**
AW 30 61 VA4301	610	3	1	154,000	**6442919**
AW 30 11 VA4571	110	3	1	21,200	**6443615**
AW 30 21 VA4571	210	3	1	38,000	**6443311**
AW 30 31 VA4571	310	3	1	61,000	**6443621**
AW 30 41 VA4571	410	3	1	86,000	**6443346**
AW 30 51 VA4571	510	3	1	126,000	**6443625**
AW 30 61 VA4571	610	3	1	154,000	**6443627**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

GB pickled

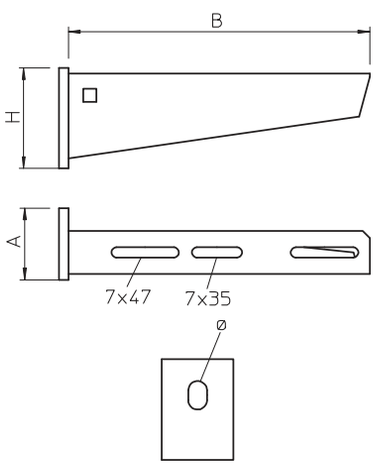


Fastening of the bracket to the U support of width 400 mm or greater using hexagonal bolt through both sides of the support. Please insert suitable spacers.

Medium-duty wall and support bracket with welded head plate.

Dimensions

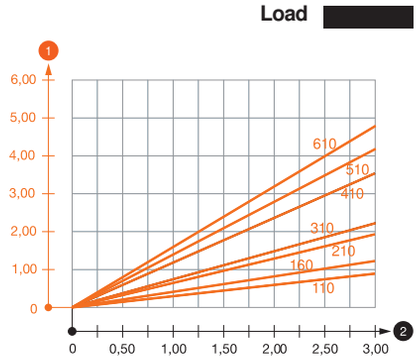
Type	Width mm	Dimension A mm	Dimension H mm	Hole-Ø mm
AW 30 11 VA4301	110	50	60	11
AW 30 21 VA4301	210	50	70	13
AW 30 31 VA4301	310	50	80	13
AW 30 41 VA4301	410	50	80	13
AW 30 51 VA4301	510	50	90	13
AW 30 61 VA4301	610	50	100	13



Load

Load diagram, bracket AW 30 VA

1. Bending of the bracket tip at permitted bracket load
2. Approved bracket load in kN without man load
- Load curve with bracket lengths in mm



Characteristic anchor load values for wall and support bracket AW 30

Bracket load							
F F	Anchors	Max. total load F in kN					
	Approx.	Bracket length in mm					
	F kN	100	200	300	400	500	600
	3.57	1,66	1,12	0,99	0,76	0,74	0,74
	4.76	2,21	1,50	1,32	1,01	0,99	0,99

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Always indicate the item number when ordering.

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Wall and support bracket AW 55



Type	Width mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AW 55 21 VA4301	210	5.5	1	77,000	**6443063**
AW 55 31 VA4301	310	5.5	1	123,000	**6443067**
AW 55 41 VA4301	410	5.5	1	167,000	**6443071**
AW 55 51 VA4301	510	5.5	1	249,000	**6443075**
AW 55 61 VA4301	610	5.5	1	305,000	**6443079**
AW 55 71 VA4301	710	5.5	1	415,000	**6443083**
AW 55 21 VA4571	210	5.5	1	77,000	**6418557**
AW 55 31 VA4571	310	5.5	1	123,000	**6418573**
AW 55 41 VA4571	410	5.5	1	167,000	**6418601**
AW 55 51 VA4571	510	5.5	1	249,000	**6418622**
AW 55 61 VA4571	610	5.5	1	305,000	**6418638**

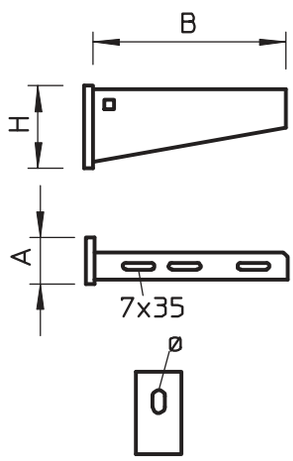
V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

GB pickled

Fastening of the bracket to the U support of width 400 mm or greater using hexagonal bolt through both sides of the support. Please insert suitable spacers.

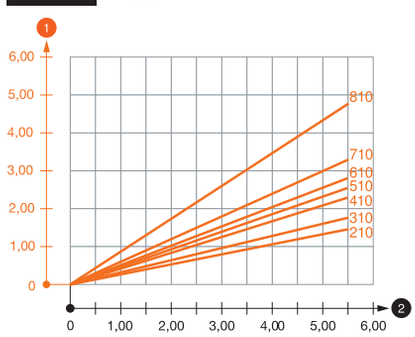
Heavy-duty wall and support bracket with welded head plate.

Dimensions



Type	Width mm	Dimension A mm	Dimension H mm	Hole-Ø mm
AW 55 21 VA4301	210	50	90	13.5
AW 55 31 VA4301	310	50	110	13.5
AW 55 41 VA4301	410	50	130	13.5
AW 55 51 VA4301	510	60	145	13.5
AW 55 61 VA4301	610	60	165	13.5
AW 55 71 VA4301	710	60	195	13.5

Load



Load diagram, bracket, type AW 55

1. Bending of the bracket tip at permitted bracket load
2. Approved bracket load in kN without man load
- Load curve with bracket lengths in mm

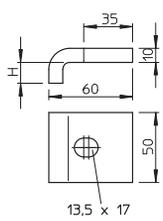
Characteristic anchor load values for wall and support bracket AW 55

Bracket load							
F F	Anchors	Max. total load F in kN					
	Approx.	Bracket length in mm					
	F kN	200	300	400	500	600	700
	3.57	1,47	1,46	1,44	1,38	1,38	1,28
	4.76	1,97	1,94	1,93	1,84	1,84	1,71

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Clamping angle KWS





Type	Height mm	F in kN kN	Bolt	Pack. pair	Weight kg/100 pairs	Item No.
KWS 5 VA4301	5	5.7	M12 x 40	5	69,000	**6355404**
KWS 10 VA4301	10	5.7	M12 x 50	5	69,000	**6355412**
KWS 15 VA4301	15	5.7	M12 x 50	5	73,000	**6355420**
KWS 20 VA4301	20	5.7	M12 x 60	5	79,000	**6355439**
KWS 25 VA4301	25	5.7	M12 x 60	5	83,000	**6355447**

V2A Stainless steel, grade 304 /pair

Choose the clamping angle according to the thickness of the flange.

Clamping angle, with hexagonal bolt, type KWS, for direct fixing of constructions to steel girder flanges.

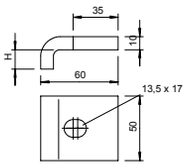
Always indicate the item number when ordering.

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Clamping angle KWH

Type	Height mm	F in kN kN	Bolt	Pack. pair	Weight kg/100 pairs	Item No.
KWH 5 VA4301	5	5.7	M12 x 40	5	65,000	**6355307**
KWH 10 VA4301	10	5.7	M12 x 50	5	69,000	**6355315**
KWH 15 VA4301	15	5.7	M12 x 50	5	73,000	**6355323**
KWH 20 VA4301	20	5.7	M12 x 60	5	79,000	**6355331**
KWH 25 VA4301	25	5.7	M12 x 60	5	83,000	**6355358**

V2A Stainless steel, grade 304 /pair





Choose the clamping angle according to the thickness of the flange.
The clamping angle is used in conjunction with profile rails of slot width 22 mm (e.g. type CPS 5).
Clamping angle, with hammer-head bolt, type KWH, for fixing in the profile rail, type CPS 5.

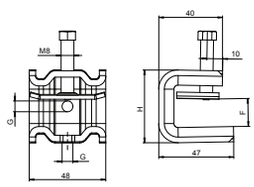
Beam clamp SSP, V2A

Type	Flange thickness mm	Dimension H mm	For threaded rod	Pack. pcs	Weight kg/100 pcs.	Item No.
SSP 6-21 M6 V2A	6 - 21	46	M6	25	23,200	**1486234**

V2A Stainless steel, grade 304 /100 pc.

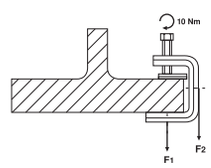
This type of support clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M6 threads are also incorporated, to fix threaded rods, for example.





SSP 6-21 M6 V2A

Breaking load F1 kN	1.75
Breaking load F2 kN	1.5



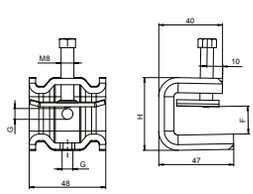
Beam clamp SSP, V2A

Type	Flange thickness mm	Dimension H mm	For threaded rod	Pack. pcs	Weight kg/100 pcs.	Item No.
SSP 6-21 M8 V2A	6 - 21	46	M8	25	23,200	**1486284**

V2A Stainless steel, grade 304 /100 pc.

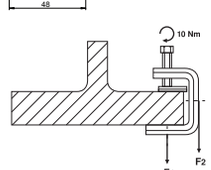
This type of support clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M8 threads are also incorporated to fix threaded rods, for example.





SSP 6-21 M8 V2A

Breaking load F1 kN	1.75
Breaking load F2 kN	1.5



Always indicate the item number when ordering.

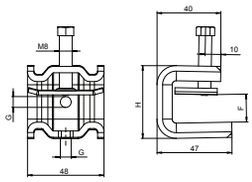
Beam clamp SSP, V4A

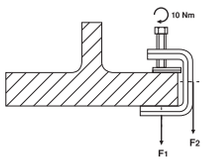


Type	Flange thickness mm	Dimension H mm	For threaded rod	Pack. pcs	Weight kg/100 pcs.	Item No.
SSP 6-21 M6 V4A	6 - 21	46	M6	25	23,200	**1486236**

V4A Stainless steel, grade 316 L /100 pc.

This type of support clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M6 threads are also incorporated, to fix threaded rods, for example.





SSP 6-21 M6 V4A

Breaking load F1 kN	1.75
Breaking load F2 kN	1.5

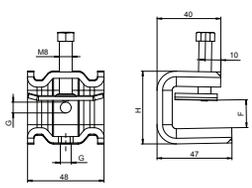
Beam clamp SSP, V4A

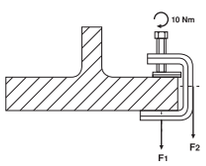


Type	Flange thickness mm	Dimension H mm	For threaded rod	Pack. pcs	Weight kg/100 pcs.	Item No.
SSP 6-21 M8 V4A	6 - 21	46	M8	25	23,200	**1486286**

V4A Stainless steel, grade 316 L /100 pc.

This type of support clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M8 threads are also incorporated to fix threaded rods, for example.





SSP 6-21 M8 V4A

Breaking load F1 kN	1.75
Breaking load F2 kN	1.5

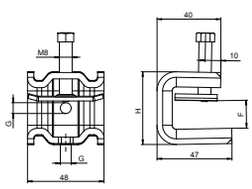
Beam clamp SSP, V2A

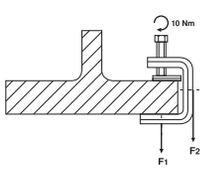


Type	Flange thickness mm	Dimension H mm	For threaded rod	Pack. pcs	Weight kg/100 pcs.	Item No.
SSP 20-40 M6 V2A	20 - 40	65	M6	25	27,700	**1486242**

V2A Stainless steel, grade 304 /100 pc.

This type of support clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M6 threads are also incorporated, to fix threaded rods, for example.





SSP 20-40 M6 V2A

Breaking load F1 kN	1.4
Breaking load F2 kN	1.3

Always indicate the item number when ordering.

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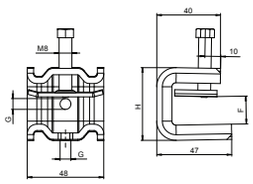
Beam clamp SSP, V2A

Type	Flange thickness mm	Dimension H mm	For threaded rod	Pack. pcs	Weight kg/100 pcs.	Item No.
SSP 20-40 M8 V2A	20 - 40	65	M8	25	27,800	**1486292**

V2A Stainless steel, grade 304 /100 pc.

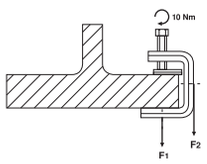
This type of support clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M8 threads are also incorporated to fix threaded rods, for example.





SSP 20-40 M8 V2A

Breaking load F1 kN	1.4
Breaking load F2 kN	1.3



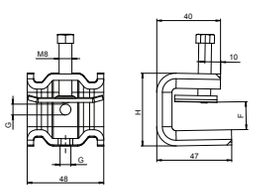
Beam clamp SSP, V4A

Type	Flange thickness mm	Dimension H mm	For threaded rod	Pack. pcs	Weight kg/100 pcs.	Item No.
SSP 20-40 M6 V4A	20 - 40	65	M6	25	27,700	**1486244**

V4A Stainless steel, grade 316 L /100 pc.

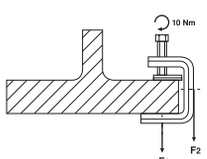
This type of support clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M6 threads are also incorporated, to fix threaded rods, for example.





SSP 20-40 M6 V4A

Breaking load F1 kN	1.4
Breaking load F2 kN	1.3



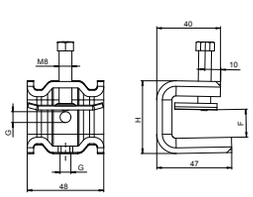
Beam clamp SSP, V4A

Type	Flange thickness mm	Dimension H mm	For threaded rod	Pack. pcs	Weight kg/100 pcs.	Item No.
SSP 20-40 M8 V4A	20 - 40	65	M8	25	27,800	**1486294**

V4A Stainless steel, grade 316 L /100 pc.

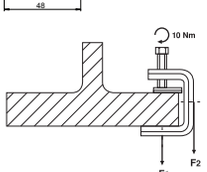
This type of support clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M8 threads are also incorporated to fix threaded rods, for example.





SSP 20-40 M8 V4A

Breaking load F1 kN	1.4
Breaking load F2 kN	1.3

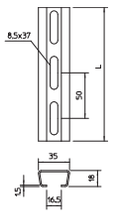


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Always indicate the item number when ordering.

Medium anchor profile rail





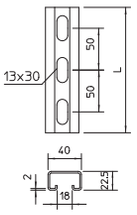
Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
AML3518P2000A2	35 x 18	1.5	2000	20	80,000	**1119702**
AML3518P6000A2	35 x 18	1.5	6000	6	80,000	**1119729**

V2A Stainless steel, grade 304 price/100 m

Profile rail, perforated, slot width 16.5 mm.

Heavy-duty mounting rail





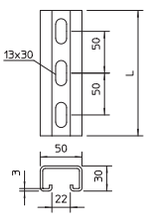
Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
MS4022P2000A2	40 x 22.5	2	2000	10	152,500	**1121960**
MS4022P6000A2	40 x 22.5	2	6000	6	152,500	**1121901**

V2A Stainless steel, grade 304 price/100 m

Heavy-duty profile rail, perforated, slot width 18 mm.

Heavy-duty mounting rail





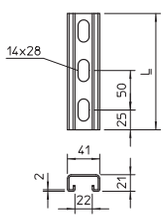
Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
MS5030P2000A2	50 x 30	3	2000	2	282,500	**1121480**
MS5030P6000A2	50 x 30	3	6000	6	282,500	**1121499**

V2A Stainless steel, grade 304 price/100 m

Heavy-duty profile rail with continuous perforation, slot width 22 mm.

Heavy-duty mounting rail





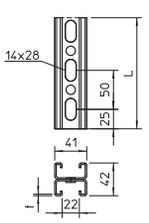
Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
MS4121P3000A2	41x21	2	3000	3	185,340	**1122928**
MS4121P6000A2	41x21	2	6000	6	172,670	**1122929**
MS4121P2000A4	41x21	2	2000	2	175,000	**1122476**
MS4121P3000A4	41x21	2	3000	3	172,670	**1122931**
MS4121P6000A4	41x21	2	6000	6	172,670	**1122932**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti price/100 m

Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm.

Heavy-duty mounting rail, back to back





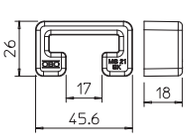
Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
MS4142P6000A2	41 x 42	2	6000	6	283,800	**1122954**

V2A Stainless steel, grade 304 price/100 m

Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm. Double version, i.e. two profile rails are interconnected on the base (welded).

End cap MS4121





Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
MS4121 SK	Pastel orange	25	0,650	**1122902**

PE Polyethylene /100 pc.

End caps for profile rail, type MS4121.

Always indicate the item number when ordering.

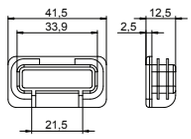
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End cap MS4121

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
MS4121 EK	Pastel orange	50	0,645	**1122904**

PE Polyethylene /100 pc.

End cap for profile rail, type MS4121.



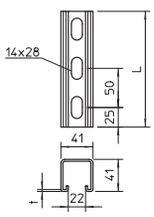


Heavy-duty mounting rail

Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
MS4141P1000A2	41 x 41	2	1000	1	201,100	**1122978**
MSL4141P3000A2	41 x 41	2	3000	3	201,100	**1122980**
MSL4141P6000A2	41 x 41	2	6000	6	201,100	**1122982**
MS4141P1000A4	41 x 41	2	1000	1	201,100	**1122988**
MSL4141P3000A4	41 x 41	2	3000	3	201,100	**1122990**
MSL4141P6000A4	41 x 41	2	6000	6	201,100	**1122992**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti price/100 m

Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm.



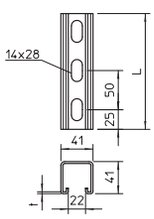


Heavy-duty mounting rail

Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
MSL4141PP1000A2	41 x 41	2	1000	1	179,400	**1123014**
MSL4141PP3000A2	41 x 41	2	3000	3	179,400	**1123016**
MSL4141PP6000A2	41 x 41	2	6000	6	179,400	**1123018**
MSL4141PP1000A4	41 x 41	2	1000	1	179,400	**1123021**
MSL4141PP3000A4	41 x 41	2	3000	3	179,400	**1123023**
MSL4141PP6000A4	41 x 41	2	6000	6	179,400	**1123025**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti price/100 m

Heavyweight profile rail with continuous, three-sided perforation, slot width 22 mm.



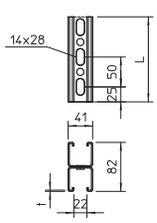


Heavy-duty mounting rail, back to back

Type	Dimension W x H mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
MS4182P3000A2	41 x 82	2	3000	3	402,200	**1122682**
MS4182P6000A2	41 x 82	2	6000	6	402,200	**1122684**

V2A Stainless steel, grade 304 price/100 m

Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm. Double version, i.e. two profile rails are interconnected on the base (welded).



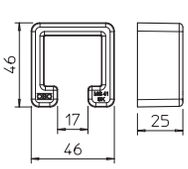


End cap for mounting rail MS 41

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
MS4141 SK	Pastel orange	25	1,320	**1122900**

PE Polyethylene /100 pc.

End caps for profile rail, type MS4141.



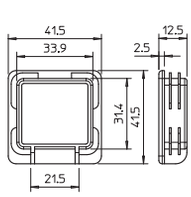


End cap MS4141

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
MS4141 EK	Pastel orange	50	0,670	**1122906**

PE Polyethylene /100 pc.

End cap for profile rail, type MS4141.



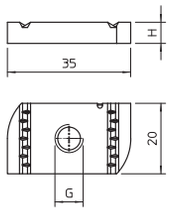


Always indicate the item number when ordering.

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Slide nut, 22 mm slot width, for MS4121 / 4141





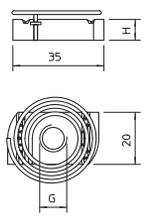
Type	Thread	Dimension H mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
G22 M6 V4A	M6	6	300	50	2,700	**1146401**
G22 M8 V4A	M8	6	300	50	2,470	**1146403**
G22 M10 V4A	M10	8	300	50	3,200	**1146406**
G22 M12 V4A	M12	9.5	300	50	3,700	**1146408**

V4A Stainless steel, grade 316 /100 pc.

Slide nut for profile rail MS4121 / 4141, without tensioning spring with toothing, fixing by 90° rotation.

Slide nut, 22 mm slot width, for MS4121 / 4141





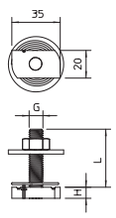
Type	Thread	Dimension H mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMF22 M6 V4A	M6	6	300	50	2,926	**1146430**
GMF22 M8 V4A	M8	6	300	50	2,867	**1146434**
GMF22 M10 V4A	M10	8	200	50	3,470	**1146438**
GMF22 M12 V4A	M12	9.5	200	50	4,110	**1146442**

V4A Stainless steel, grade 316 /100 pc.

Slide nut for profile rail MS4121 / 4141, with tensioning spring and toothing, fixing by 90° rotation.

Hammer-head bolt, for MS4121 / 4141





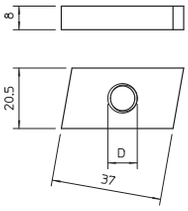
Type	Thread	Dim. L mm	Dimension H mm	Washer Ø mm	Pack. pcs	Weight kg/100 pcs.	Item No.
HKF22 M8x30 V4A	M8	30	6	40	25	7,288	**1148990**
HKF22 M8x50 V4A	M8	50	6	40	25	8,134	**1148992**
HKF22 M10x30 V4A	M10	30	8	40	25	9,191	**1148996**
HKF22 M10x50 V4A	M10	50	8	40	25	10,187	**1148998**
HKF22 M12x30 V4A	M12	30	9.5	40	25	10,567	**1149002**

V4A Stainless steel, grade 316 /100 pc.

V4A hammer-head bolt for profile rail MS4121 / 4141, with tensioning spring and toothing, fixing by 90° rotation

Slide nut, 22 mm slot width



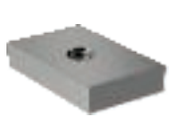


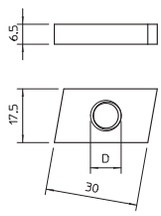
Type	Dimension D mm	Recommended load capacity kN	Pack. pcs	Weight kg/100 pcs.	Item No.
GMH22 M6 VA	6	1.94	50	4,500	**1146646**
GMH22 M8 VA	8	3.57	50	4,300	**1146648**
GMH22 M10 VA	10	5.7	50	4,300	**1146650**
GMH22 M12 VA	12	8.32	50	4,200	**1146652**

V4A Stainless steel, grade 316 /100 pc.

Slide nut for profile rails with a slot width of 22 mm. Cannot be used for mounting rail MS4121 and MS4141.

Slide nut, 18 mm slot width





Type	Dimension D mm	Recommended load capacity kN	Pack. pcs	Weight kg/100 pcs.	Item No.
GMH18 M6 VA	6	1.94	50	2,400	**1146556**
GMH18 M8 VA	8	3.57	50	2,300	**1146558**
GMH18 M10 VA	10	5.7	50	2,300	**1146560**
GMH18 M12 VA	12	8.32	50	2,000	**1146562**

V4A Stainless steel, grade 316 /100 pc.

Slide nut for profile rails with a slot width of 18 mm.

Always indicate the item number when ordering.

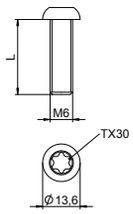
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Flat-head screw with internal Torx

Type	Dimension mm	Dim. L mm	Head Ø mm	Screw system	Pack. pcs	Weight kg/100 pcs.	Item No.
7380T 6x20 V2A	M6 x 20	20	13.6	TX 30	100	0,580	**3164972**
7380T 6x35 V2A	M6 x 35	35	13.6	TX 30	100	0,910	**3164976**

V2A Stainless steel, grade 304 /100 pc.

Flat head screw with Torx drive, according to ISO 7380-1, suitable for fastening cable routes on brackets as well as for the mounting of barrier strips. The rounded head shape provides optimum cable protection. The Torx drive offers optimum force transmission in the screw movement.

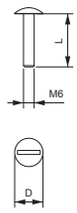




Pan head screw

Type	Dimension mm	Dim. L mm	Head Ø mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BS M6x30 VA	M6 x 30	30	14	100	0,790	**1148896**

V2A Stainless steel, grade 304 /100 pc.



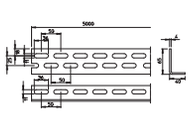


Angle profile

Type	Length mm	Pack. m	Weight kg/100 m	Item No.
WP 40 65 5000 VA	5000	5	240,000	**6373062**

V2A Stainless steel, grade 304 /m

Angle profile, perforated on both sides, for creation of special support structures.



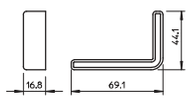


End cap

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
WPK SR OR	Pastel orange	20	0,600	**6372881**
WPK SL OR	Pastel orange	20	0,600	**6372898**

PE Polyethylene /pc.

End cap to cover the ends of angle profile, type WE 40/65.



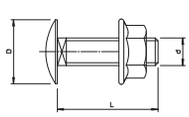


Truss-head bolt with flange nut

Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Grade	Pack. pcs	Weight kg/100 pcs.	Item No.
FRSB 6x12 A2	M 6 x 12	12	6	13.5	A2-50	100	0,830	**6406138**
FRSB 6x16 A2	M 6 x 16	16	6	13.5	A2-50	100	0,800	**6406189**
FRSB 6x20 A2	M 6 x 20	20	6	13.5	A2-50	100	0,960	**6406205**
FRSB 6x12 A4	M 6 x 12	12	6	13.5	A4-50	100	0,796	**6406142**
FRSB 6x16 A4	M 6 x 16	16	6	13.5	A4-50	100	0,800	**6406193**
FRSB 6x20 A4	M 6 x 20	20	6	13.5	A4-70	100	0,960	**6406207**

V2A Stainless steel, A2 V4A Stainless steel, A4 /100 pc.

Truss-head bolt with square neck including flange nut.

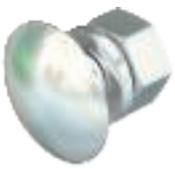


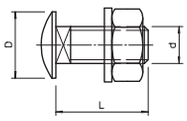


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Always indicate the item number when ordering.

Truss-head bolt with nut and washer





Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Grade	Pack. pcs	Weight kg/100 pcs.	Item No.
FRS 6x12 A2	M 6 x 12	12	6	13.5	A2-70	100	0,760	**6406521**
FRS 6x16 A2	M 6 x 16	15	6	13.5	A2-70	100	0,900	**6406556**
FRS 6x20 A2	M 6 x 20	20	6	13.5	A2-70	100	1,000	**6406602**
FRS 8x16 A2	M 8 x 16	16	8	20	A2-70	50	2,200	**6406696**
FRS 8x20 A2	M 8 x 20	20	8	20	A2-70	50	2,100	**6406807**
FRS 8x25 A2	M 8 x 25	25	8	20	A2-70	50	2,300	**6406815**
FRS 8x35 A2	M 8 x 35	35	8	20	A2-70	50	2,700	**6406823**
FRS 10x20 A2	M 10 x 20	20	10	24	A2-70	50	3,900	**6406866**
FRS 10x25 A2	M10 x 25	25	10	24	A2-70	50	4,500	**6406718**
FRS 10x30 A2	M 10 x 30	30	10	24	A2-70	50	4,500	**6406726**
FRS 12x25 A2	M12 x 25	25	12	30	A2-70	25	6,400	**6406750**
FRS 12x30 A2	M 12 x 30	30	12	30	A2-50	25	6,800	**6406769**
FRS 6x12 A4	M 6 x 12	12	6	13.5	A4-70	100	0,820	**6406564**
FRS 6x16 A4	M 6 x 16	16	6	13.5	A4-70	100	0,900	**6406580**
FRS 6x20 A4	M 6 x 20	20	6	13.5	A4-70	100	1,000	**6406610**
FRS 8x16 A4	M8 x 16	16	8	20	A4-70	50	2,200	**6406653**
FRS 8x16 A4	M8 x 16	16	8	20	A4-70	50	2,200	**6406698**
FRS 10x20 A4	M 10 x 20	20	10	24	A4-70	50	4,000	**6406870**
FRS 10x25 A4	M10 x 25	25	10	24	A4-70	50	4,500	**6407524**
FRS 10x20S A4	M 10 x 20	20	10	24	A4-70	50	4,100	**6406872**
FRS 12x25 A4	M 12 x 25	25	12	30	A4-70	25	6,400	**6406785**

V2A Stainless steel, A2 V4A Stainless steel, A4 /100 pc.

Truss-head bolt with square neck including washer and hexagonal nut.

Threaded rod





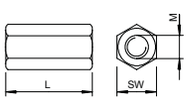
Type	Thread	Dim. d mm	Dim. L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2078 M6 1M V2A	M6	6	1000	10	18,300	**3141327**
2078 M8 1M V2A	M8	8	1000	10	30,000	**3141310**
2078 M10 1M V2A	M10	10	1000	10	49,000	**3141312**
2078 M12 1M V2A	M12	12	1000	10	70,000	**3141314**
2078 M6 1M V4A	M6	6	1000	50	18,300	**3141482**
2078 M8 1M V4A	M8	8	1000	50	30,000	**3141492**
2078 M10 1M V4A	M10	10	1000	25	49,000	**3141502**
2078 M12 1M V4A	M12	12	1000	20	70,000	**3141512**
2078 M6 2M V2A	M6	6	2000	10	36,600	**3141328**
2078 M8 2M V2A	M8	8	2000	10	60,000	**3141330**
2078 M10 2M V2A	M10	10	2000	10	98,000	**3141339**
2078 M12 2M V2A	M12	12	2000	10	140,000	**3141316**
2078 M6 2M V4A	M6	6	2000	25	36,600	**3141484**
2078 M8 2M V4A	M8	8	2000	10	60,000	**3141494**
2078 M10 2M V4A	M10	10	2000	20	98,000	**3141504**
2078 M12 2M V4A	M12	12	2000	10	140,000	**3141514**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /100 pc.

Threaded rod to DIN 976.

Connection sleeve





Type	Thread	Dim. L mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
12005 M8 V2A	M8	30	13	50	2,000	**6410154**
12005 M10 V2A	M10	40	17	50	6,000	**6410162**

V2A Stainless steel, grade 304 /100 pc.

Connection sleeve with continuous internal thread.

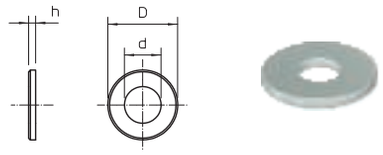
Always indicate the item number when ordering.

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Washer

Type	Thread	Dim. d mm	Dimension D mm	Dim. h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
966 M6 VA	M6	6.4	12	1.6	100	0,114	**3402304**
966 M8 VA	M8	8.4	16	1.6	100	0,214	**3402312**
966 M10 VA	M10	10.5	20	2	100	0,408	**3402320**
966 M12 VA	M12	13	24	2.5	100	0,627	**3402339**
966 M6 V4A	M6	6.4	12	1.6	100	0,114	**3402306**
966 M8 V4A	M8	8.4	16	1.6	100	0,214	**3402314**
966 M10 V4A	M10	10.5	20	2	100	0,408	**3402322**
966 M12 V4A	M12	13	24	2.5	100	0,627	**3402345**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /100 pc.

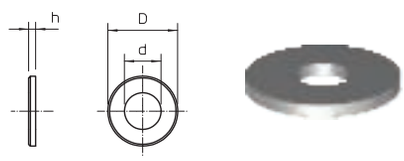


Washer according to DIN 125, shape A, for universal use.

Large washer

Type	Thread	Dim. d mm	Dimension D mm	Dim. h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
964 M8 G20 V2A	M8	8.4	20	1.5	100	0,240	**3403125**
964 M8 G25 V2A	M8	8.4	25	1.2	100	0,370	**3403135**
964 M8 G40 V2A	M8	8.5	40	1.5	100	0,370	**3403145**
964 M10 G30 V2A	M10	10.5	30	1.5	100	0,592	**3403155**
964 M10 G40 V2A	M10	10.5	40	1.5	100	0,592	**3403175**
964 M8 G20 V4A	M8	8.4	20	1.5	100	0,240	**3403127**
964 M8 G25 V4A	M8	8.4	25	1.2	100	0,370	**3403137**
964 M8 G40 V4A	M8	8.4	40	1.5	100	0,370	**3403147**
964 M10 G30 V4A	M10	10.5	30	1.5	100	0,592	**3403163**
964 M10 G40 V4A	M10	10.5	40	1.5	100	0,592	**3403177**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /100 pc.

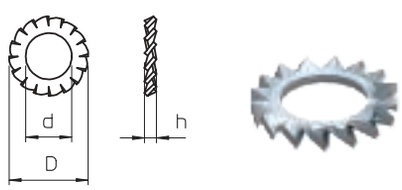


Washer of particularly large outer diameter. In the case of connections on the MS 41 mounting rail, we recommend the external diameter of 40 mm.

Serrated washer

Type	Thread	Dim. d mm	Dimension D mm	Dim. h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 6798 M6 VA	M6	6.4	11	2.1	100	0,040	**3404331**
DIN 6798 M8 VA	M8	8.4	15	2.4	100	0,080	**3404358**
DIN 6798 M6 4401	M6	6.4	11	2.1	100	0,036	**3404372**
DIN 6798 M8 4401	M8	8.4	15	2.4	100	0,080	**3404377**
DIN6798 M10 4401	M10	10.5	18	2.7	100	0,125	**3404381**
DIN6798 M12 4401	M12	13	20.5	3	100	0,170	**3404385**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 V2A Stainless steel, grade 301 /100 pc.

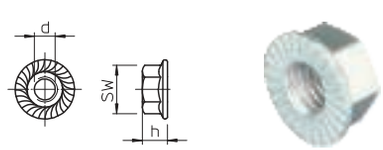


Serrated washer to DIN 6798, shape A.

Flange nut

Type	Dim. d mm	Dim. h mm	SW mm	Grade	Pack. pcs	Weight kg/100 pcs.	Item No.
KM M6 A2	6	6	10	A2-70	100	0,315	**6408966**
KM M6 A4	6	6	10	A4-70	100	0,315	**6408970**
KM M8 A4	8	8	13	A4-70	100	0,800	**6408920**
KM M10 A4	10	10	17	A4-70	100	1,320	**6408930**
KM M12 A4	12	12	19	A4-70	100	2,260	**6408940**

V2A Stainless steel, A2 V4A Stainless steel, A4 /100 pc.

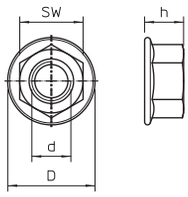


Flange nut with pressed washer in accordance with EN 1661.

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Flange nut DIN 6923





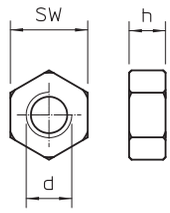
Type	Thread	SW mm	Dim. h mm	Dim. d mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 6923 M8 VA	M8	13	8	17.9	100	0,800	**3156120**
DIN 6923 M10 VA	M10	17	10	21.8	50	1,320	**3156122**
DIN 6923 M12 VA	M12	19	12	26	50	2,100	**3156126**

V2A Stainless steel, grade 304 /100 pc.

Flange nut with pressed washer in accordance with EN 1661.

Hexagonal nut





Type	Thread	SW mm	Dim. h mm	Dim. d mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 934 M6 VA	M6	10	5.2	6	100	0,250	**3397068**
DIN 934 M8 VA	M8	13	6.8	8	100	0,520	**3397084**
DIN 934 M10 VA	M10	17	8.4	10	100	1,160	**3397106**
DIN 934 M12 VA	M12	19	10.8	12	100	1,730	**3397114**
DIN 934 M6 V4A	M6	10	5.2	6	100	0,250	**3400173**
DIN 934 M8 V4A	M8	13	6.8	8	100	0,520	**3400175**
DIN 934 M10 V4A	M10	17	8.4	10	100	1,084	**3400177**
DIN 934 M12 V4A	M12	19	10.8	12	100	1,730	**3397145**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /100 pc.

Hexagonal nut to DIN 934 with metric thread.

Nail anchor N-K with nail head

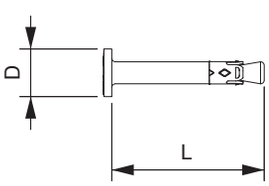


Type	Bore hole Ø mm	Bore hole depth mm	Fixture thickness mm	Dim. L mm	Dimension D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
N-K 6-5/44 A4	6	40	5	44	13	50	1,140	**3498393**

V4A Stainless steel, A4 /100 pc.

European technical approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.

The nail anchor N can be used for multiple fastenings of non-load-bearing systems, indoors and outdoors, in cracked and non-cracked concrete, thereby combining the benefits of a bolt tie with an even easier mounting. The nail anchor only needs to be hammered into the drill hole. When the load occurs, the nail anchor spreads itself and bolts itself in the drill hole.



Always indicate the item number when ordering.

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Nail anchor N with thread

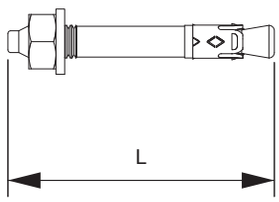
Type	Thread	Bore hole Ø mm	Bore hole depth mm	Fixture thickness mm	Dim. L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
N 6-5/49 A4	M6	6	40	5	49	50	1,200	**3498399**

V4A Stainless steel, A4 /100 pc.



European technical approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.

The nail anchor N can be used for multiple fastenings of non-load-bearing systems, indoors and outdoors, in cracked and non-cracked concrete, thereby combining the benefits of a bolt tie with an even easier mounting. The nail anchor only needs to be hammered into the drill hole. It is not necessary to apply torque subsequently. When the load occurs, the nail anchor spreads itself and bolts itself in the drill hole.



Wedge anchor BZ

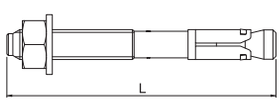
Type	Thread	Dim. L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BZ12-15-35/110A4	M12	110	25	10,440	**3498352**

V4A Stainless steel, A4 /100 pc.



European technical approval ETA-99/0010, including characteristic values under fire exposure to fire resistance R 120.
Proof of suitability in the case of seismic impacts, categories C1 and C2.
Shock approval by the Federal Office for Civil Protection in Bern, Switzerland.

Wedge anchor BZ for the anchoring of medium-duty to heavy-duty loads, indoors and outdoors, both in cracked and non-cracked concrete. It combines high approved loads with small edge distances and axial spacings.



Standard anchoring depth

Loads and characteristic values		M8	M10	M 12-15/110	M16
Standard anchoring depth	mm	-	-	70	-
Drill hole Ø	mm	-	-	12	-
Drill hole depth	mm	-	-	90	-
Clamping strength	mm	-	-	15	-
Approx. load area, tension zone	KN	-	-	7.6	-

Reduced anchoring depth

Loads and characteristic values		M8	M10	M 12-35/110	M16
Reduced anchoring depth	mm	-	-	50	-
Drill hole Ø	mm	-	-	12	-
Drill hole depth	mm	-	-	70	-
Clamping strength	mm	-	-	35	-
Approx. load area, tension zone	KN	-	-	6.1	-

Always indicate the item number when ordering.

Wedge anchor BZ-U

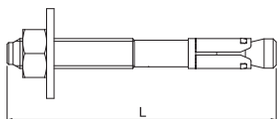


Type	Thread	Dim. L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BZ-U8-10-21/75A4	M8	75	50	3,460	**3498322**
BZ-U8-30-41/95A4	M8	95	50	4,090	**3498328**
BZU10-10-30/90A4	M10	90	50	6,740	**3498336**

V4A Stainless steel, A4 /100 pc.

European technical approval ETA-99/0010, including characteristic values under fire exposure to fire resistance R 120.
Proof of suitability in the case of seismic impacts, categories C1 and C2.
Shock approval by the Federal Office for Civil Protection in Bern, Switzerland.

Wedge anchor BZ for the anchoring of medium-duty to heavy-duty loads, indoors and outdoors, both in cracked and non-cracked concrete. It combines high approved loads with small edge distances and axial spacings.



Standard anchoring depth

Loads and characteristic values		M 8-10/75	M 8-30/95	M 10-10/90	M10
Standard anchoring depth	mm	46	46	60	-
Drill hole Ø	mm	8	8	10	-
Drill hole depth	mm	60	60	75	-
Clamping strength	mm	10	30	10	-
Approx. load area, tension zone	KN	2.4	2.4	4.3	-

Reduced anchoring depth

Loads and characteristic values		M 8-21/75	M 8-41/95	M 10-30/90	M10
Reduced anchoring depth	mm	35	35	40	-
Drill hole Ø	mm	8	8	10	-
Drill hole depth	mm	49	49	55	-
Clamping strength	mm	21	41	30	-
Approx. load area, tension zone	KN	2.4	2.4	3.6	-

Drop-in anchor

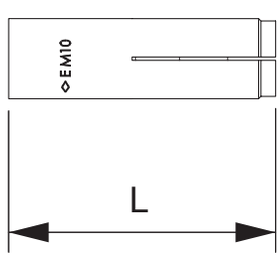


Type	Thread	Screw-in depth min.-max. mm	Bore hole Ø mm	Bore hole depth mm	Dim. L mm	Perm. load range, tension zone kN	Pack. pcs	Weight kg/100 pcs.	Item No.
E M 8x40 A4	M8	9 - 20	10	40	40	2	50	1,490	**3492912**
E M 10x40 A4	M10	11 - 15	12	40	40	2	50	2,160	**3492922**
E M 12x50 A4	M12	13 - 18	15	50	50	2.4	50	4,380	**3492932**

V4A Stainless steel, A4 /100 pc.

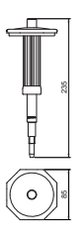
European Technical Approval ETA-02/0020 (option 7) for single fixings in non-cracked concrete and European Technical Approval ETA-05/0116 for multiple fixings in cracked and non-cracked concrete, including characteristic values under fire exposure to fire protection R 120.

The drop-in anchor E can be used for single fixings in non-cracked concrete as well as for multiple fixings in cracked concrete of non-load-bearing systems.
The setting tool is placed onto the anchor sleeve thereby creating a visible mark which confirms the correct installation. Through the controlled expansion, the necessary axial spacings and edge distances are decreased significantly.



Setting tool for drop-in anchor





Type	Length mm	Thread	Pack. pcs	Weight kg/100 pcs.	Item No.
E-MSH 8x40	235	M8	1	38,000	**3492970**
E-MSH 10x40	235	M10	1	45,000	**3492974**
E-MSH 12x50	235	M12	1	47,000	**3492978**

St Steel /pc.
G Electrogalvanised

Setting tool with hand protection for drop-in anchor of the type E.

Always indicate the item number when ordering.

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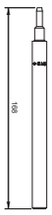
Setting tool for drop-in anchor

Type	Length mm	Thread	Pack. pcs	Weight kg/100 pcs.	Item No.
E-SW 6x30	168	M6	1	51,000	**3492990**

St Steel /pc.

G Electrogalvanised

Setting tool for drop-in anchor of the type E. With the standard version there is no marking made on the anchor sleeve.





Always indicate the item number when ordering.

Vertical cable ladder



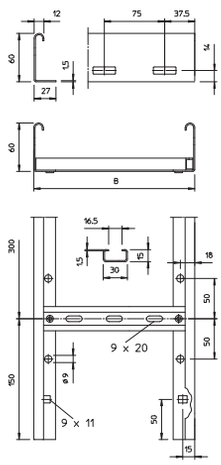
Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
LG 620 VS6VA4301	200	1.5	6	273,800	**6208700**
LG 630 VS6VA4301	300	1.5	6	298,000	**6208703**
LG 640 VS6VA4301	400	1.5	6	322,200	**6208706**
LG 650 VS6VA4301	500	1.5	6	346,300	**6208709**
LG 660 VS6VA4301	600	1.5	6	378,300	**6208712**
LG 620 VS6VA4571	200	1.5	6	273,800	**6101200**
LG 630 VS6VA4571	300	1.5	6	298,000	**6101208**
LG 640 VS6VA4571	400	1.5	6	322,200	**6101216**
LG 650 VS6VA4571	500	1.5	6	346,300	**6101223**
LG 660 VS6VA4571	600	1.5	6	378,300	**6101232**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /m

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

Magnetic shield insulation without cover 10 dB, with cover 15 dB.

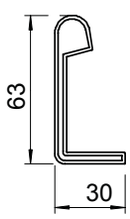
Dimensions



Type	Length mm	Width mm	Useful cross-section cm^2	Rung spacing mm
LG 620 VS6VA4301	6000	200	98	300
LG 630 VS6VA4301	6000	300	148	300
LG 640 VS6VA4301	6000	400	198	300
LG 650 VS6VA4301	6000	500	248	300
LG 660 VS6VA4301	6000	600	298	300

End cap





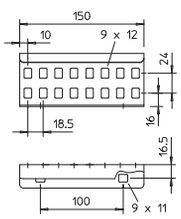
Type	Colour	Pack. pair	Weight kg/100 pairs	Item No.
SKH 60 OR	Pastel orange	40	1,100	**6222537**

PE Polyethylene /pair

End cap to cover cable ladder ends of side height 60 mm.

Straight connector





Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LVG 60 VA4301	60	10	22,000	**6208846**
LVG 60 VA4571	60	10	22,000	**6208835**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

The bolt fastening ensures the continuity of the equipotential bonding.

Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

Always indicate the item number when ordering.

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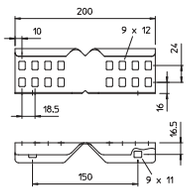
Straight and angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LWVG 60 VA4301	60	10	24,000	**6208898**
LWVG 60 VA4571	60	10	22,000	**6208891**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

The bolt fastening ensures the continuity of the equipotential bonding.

Angle connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation.





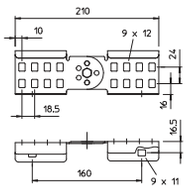
Adjustable connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LGVG 60 VA4301	60	10	29,000	**6208947**
LGVG 60 VA4571	60	10	29,000	**6208932**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

The bolt fastening ensures the continuity of the equipotential bonding.

Adjustable connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation. Angle can be adjusted vertically.



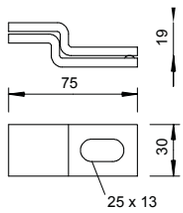


Wall bracket

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
WB 30 75 VA4301	10	20,000	**6019668**

V2A Stainless steel, grade 304 /pc.

Wall bracket for fastening vertical ladders, type LG 60, to concrete walls and masonry.





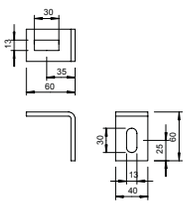
Mounting angle

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
BW 60 40 VA4301	10	22,000	**6019587**
BW 60 40 VA4571	10	22,000	**6019583**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /pc.

Including truss-head bolt M12 x 25.

Mounting angle of limb dimension 60 x 60 mm.





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Always indicate the item number when ordering.

U clamp

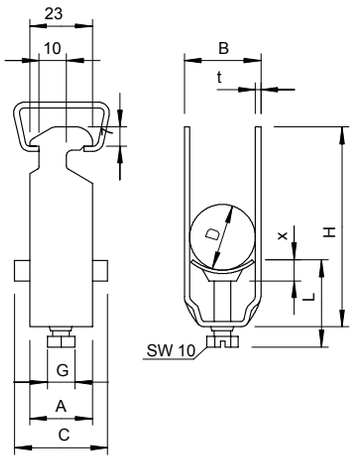


Type	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2056 12 VA	8 - 12	50	3,300	**1159518**
2056 16 VA	12 - 16	50	3,600	**1159526**
2056 22 VA	16 - 22	50	4,200	**1159534**
2056 28 VA	22 - 28	50	6,500	**1159542**
2056 34 VA	28 - 34	50	7,400	**1159550**
2056 40 VA	34 - 40	25	8,000	**1159569**
2056 46 VA	40 - 46	25	10,900	**1159577**
2056 52 VA	46 - 52	25	11,400	**1159585**
2056 58 VA	52 - 58	25	14,500	**1159593**
2056 64 VA	58 - 64	15	15,600	**1159607**
2056 70 VA	64 - 70	15	18,200	**1159615**
2056 76 VA	70 - 76	10	20,800	**1159623**

V2A Stainless steel, grade 304 /100 pc.

Suitable for all C profile rails with slot width 16–17 mm.
Clamp and bolt. Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Dimensions



D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	23	16	34	M6	1.5	5	40	34
12–16	23	20	34	M6	1.5	5	44	34
16–22	23	27	34	M6	1.5	5	50	34
22–28	23	33	34	M6	2	5	58	34
28–34	23	33	34	M8	2	5.5	58	34
34–40	23	45	34	M8	2	5.5	72	37.5
40–46	23	51	40	M8	2	5.5	79	44.5
46–52	23	57	40	M8	2	6	79	44.5
52–58	23	64	40	M8	2.5	6.5	93	45.5
58–64	23	70	40	M8	2.5	6.5	99	45.5
64–70	25	76	40	M8	2.5	6.5	106	45.5
70–76	25	82	40	M8	2.5	6.5	114	45.5

Always indicate the item number when ordering.

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U clamp

Type	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2056 M 12 VA	8 - 12	50	3,200	**1159712**
2056 M 16 VA	12 - 16	50	3,500	**1159716**
2056 M 22 VA	16 - 22	50	4,400	**1159722**
2056 M 28 VA	22 - 28	25	6,100	**1159728**
2056 M 34 VA	28 - 34	25	7,700	**1159734**
2056 M 40 VA	34 - 40	25	8,600	**1159740**
2056 M 46 VA	40 - 46	25	9,600	**1159746**
2056 M 52 VA	46 - 52	25	10,400	**1159752**
2056 M 58 VA	52 - 58	15	13,100	**1159758**
2056 M 64 VA	58 - 64	15	14,500	**1159764**
2056 M 70 VA	64 - 70	15	16,100	**1159770**
2056 M 76 VA	70 - 76	10	18,300	**1159776**

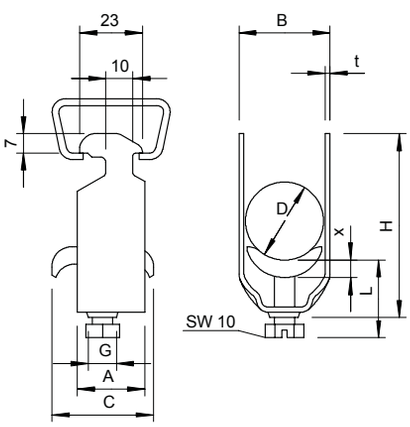
V2A Stainless steel, grade 304 /100 pc.



Suitable for all C profile rails with slot width 16–17 mm.
Clamp, bolt and pressure sleeve all made of stainless steel.

Dimensions

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	23	16	30	M6	1.5	3.5	44	32.5
12–16	23	20	30	M6	1.5	3.5	44	32.5
16–22	23	27	30	M6	1.5	4.5	60	46.5
22–28	23	128	30	M6	2	4.5	58	46.5
28–34	23	39	35	M8	2	5	66	44
34–40	23	45	35	M8	2	5	72	44
40–46	23	51	35	M8	2	5	79	44
46–52	23	57	35	M8	2	5	86	44
52–58	23	64	35	M8	2.5	5	93	44
58–64	23	70	35	M8	2.5	5	99	56
64–70	34	76	35	M8	2.5	5	106	56
70–76	34	82	40	M8	2.5	5	114	56



Always indicate the item number when ordering.

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U clamp

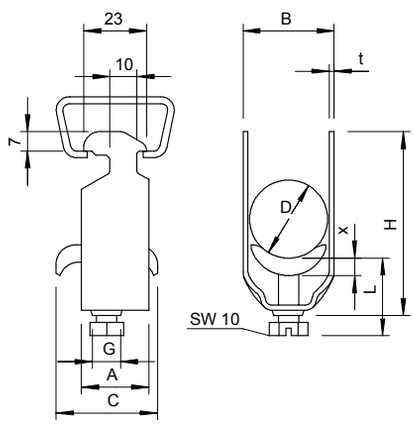


Type	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2056 M2 12 VA	8 - 12	50	3,980	**1161912**
2056 M2 16 VA	12 - 16	50	4,750	**1161916**
2056 M2 22 VA	16 - 22	50	6,900	**1161922**
2056 M2 28 VA	22 - 28	50	7,800	**1161928**
2056 M2 34 VA	28 - 34	50	10,030	**1161934**
2056 M2 40 VA	34 - 40	25	11,205	**1161940**
2056 M2 46 VA	40 - 46	25	13,300	**1161946**
2056 M2 52 VA	46 - 52	25	14,400	**1161952**
2056 M2 58 VA	52 - 58	25	18,550	**1161958**
2056 M2 64 VA	58 - 64	15	20,010	**1161964**

V2A Stainless steel, grade 304 /100 pc.

Suitable for all C profile rails with slot width 16–17 mm.
Clamp, bolt and pressure sleeve all made of stainless steel.

Dimensions



D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	23	16	34	M6	1.5	5	52	34
12–16	23	20	34	M6	1.5	5	61	34
16–22	23	27	34	M6	1.5	5	73	47
20–28	23	128	34	M6	2	5	87	47
28–34	23	39	128	M8	2	5	101	45
34–40	23	45	128	M8	2	5	114	45
40–46	23	51	128	M8	2	5	129	47
46–52	23	57	128	M8	2.5	5	142	47
52–58	23	64	128	M8	2.5	5	154	47
58–64	23	70	128	M8	2.5	5	167	47

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Always indicate the item number when ordering.

U clamp

Type	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2056U 12 VA	8 - 12	50	3,000	**1178504**
2056U 16 VA	12 - 16	50	3,200	**1178512**
2056U 22 VA	16 - 22	50	3,800	**1178520**
2056U 28 VA	22 - 28	50	5,350	**1178539**
2056U 34 VA	28 - 34	50	7,200	**1178547**
2056U 40 VA	34 - 40	25	8,100	**1178555**
2056U 46 VA	40 - 46	25	9,900	**1178563**
2056U 52 VA	46 - 52	25	11,200	**1178571**
2056U 58 VA	52 - 58	25	13,400	**1178598**
2056U 64 VA	58 - 64	15	14,300	**1178601**
2056U 70 VA	64 - 70	15	20,500	**1178628**
2056U 76 VA	70 - 76	10	19,100	**1178636**

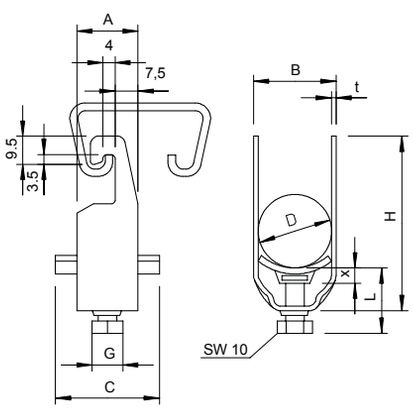
V2A Stainless steel, grade 304 /100 pc.



Suitable for all C profile rails with slot width 18 and 22 mm. Also suitable for flat, angle and U steel of 4 - 12 mm material thickness.
Stainless steel clip and bolt.
Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Dimensions

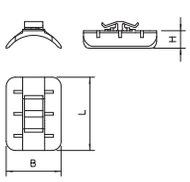
D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	20	16	34	M6	1.5	5	42	34
12–16	20	20	34	M6	1.5	5	46	34
16–22	20	27	34	M6	1.5	5	53	34
22–28	20	33	34	M6	2	5	59	34
28–34	20	39	34	M8	2	5.5	67	37.5
34–40	20	45	34	M8	2	5.5	73	37.5
40–46	20	51	40	M8	2	5.5	79	37.5
46–52	20	57	40	M8	2	6.5	85	38.5
52–58	23	64	40	M8	2.5	6.5	91	38.5
58–64	23	70	40	M8	2.5	6.5	97	38.5
64–70	23	76	40	M8	2.5	6.5	103	38.5
70–76	25	82	40	M8	2.5	6.5	110	45.5



Counter-sleeve, plastic

Type	Clamping range D mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
2058 12 LGR	8 - 12	2400	100	0,177	**1195123**
2058 16 LGR	12 - 16	1200	100	0,189	**1195166**
2058 22 LGR	16 - 22	1000	100	0,187	**1195220**
2058 28 LGR	22 - 28	1000	100	0,244	**1195271**
2058 34 LGR	28 - 34	1200	100	0,303	**1195344**
2058 40 LGR	34 - 40	1200	100	0,325	**1195409**
2058 46 LGR	40 - 46	1200	100	0,409	**1195468**
2058 52 LGR	46 - 52	1200	100	0,442	**1195522**
2058 58 LGR	52 - 58	1200	100	0,486	**1195581**
2058 64 LGR	58 - 64	500	50	0,540	**1195646**
2058 70 LGR	64 - 70	500	50	0,550	**1195700**

PP Polypropylene /100 pc.



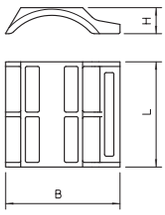


Area of use of rails with slot width 16–17 mm. Counter sleeve is clamped into the slot width as protection between the cable and rail.

Always indicate the item number when ordering.

Counter-sleeve, plastic, universal





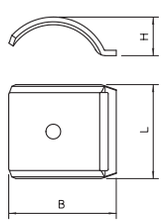
Type	Clamping range D mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
2058FW 12 LGR	8 - 12	2400	100	0,099	**1197126**
2058FW 16 LGR	12 - 16	1200	100	0,130	**1197169**
2058FW 22 LGR	16 - 22	1000	100	0,170	**1197223**
2058FW 28 LGR	22 - 28	1000	100	0,216	**1197282**
2058FW 34 LGR	28 - 34	1200	100	0,280	**1197347**
2058FW 40 LGR	34 - 40	1200	100	0,318	**1197401**
2058FW 46 LGR	40 - 46	1200	100	0,415	**1197460**
2058FW 52 LGR	46 - 52	1200	100	0,425	**1197525**
2058FW 58 LGR	52 - 58	1600	100	0,460	**1197584**
2058FW 64 LGR	58 - 64	600	50	0,525	**1197649**
2058FW 70 LGR	64 - 70	400	50	0,565	**1197703**
2058FW 76 LGR	70 - 76	500	25	0,924	**1197762**
2058FW 82 LGR	76 - 82	500	25	0,998	**1197827**
2058FW 90 LGR	82 - 90	500	25	1,070	**1197908**
2058FW 100 LGR	90 - 100	500	25	1,150	**1197991**

PP Polypropylene /100 pc.

Irrespective of the rail, universally applicable by pushing onto a limb of the U clamp.

Counter-sleeve, metal, universal





Type	Clamping range D mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
2058FW M 8 V2A	4 - 8	1500	100	0,249	**1197096**
2058FW M 12 V2A	8 - 12	1200	100	0,567	**1197134**
2058FW M 16 V2A	12 - 16	1000	100	0,770	**1197177**
2058FW M 22 V2A	16 - 22	1200	100	1,062	**1197231**
2058FW M 28 V2A	22 - 28	1000	100	1,356	**1197290**
2058FW M 34 V2A	28 - 34	400	100	2,187	**1197355**
2058FW M 40 V2A	34 - 40	300	100	2,576	**1197428**
2058FW M 46 V2A	40 - 46	200	100	3,005	**1197479**
2058FW M 52 V2A	46 - 52	200	50	3,425	**1197533**
2058FW M 58 V2A	52 - 58	200	50	3,776	**1197592**
2058FW M 64 V2A	58 - 64	600	50	4,203	**1197606**

V2A Stainless steel, grade 304 /100 pc.

Irrespective of the rail, universally applicable by pushing onto a limb of the BBS clamp clip.

Always indicate the item number when ordering.

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AZ channel, 50 mm

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
AZK 050 VA4301	50	1.5	12	137,000	**6075150**
AZK 050 VA4571	50	1.5	12	137,000	**6075152**

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti /m

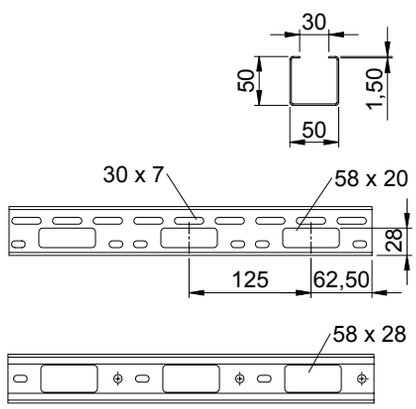
AZ channel with a side height of 50 mm.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.



Dimensions

Type	Length mm	Dimension B mm	Plate thickness mm	Side height mm
AZK 050 VA4301	3000	50	1.5	50



Load

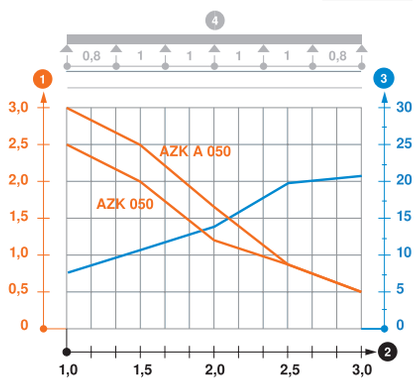
Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
AZK 050 VA4301	2.5	2	1.2	0.85	0.5

Load diagram, AZ channel

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

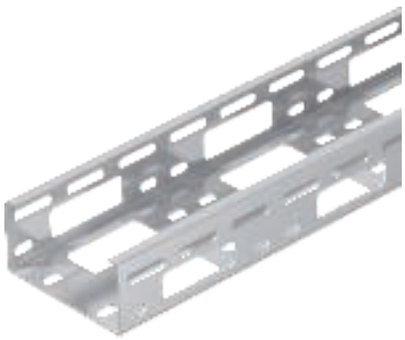
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width



Always indicate the item number when ordering.

AZ channel, 100 mm



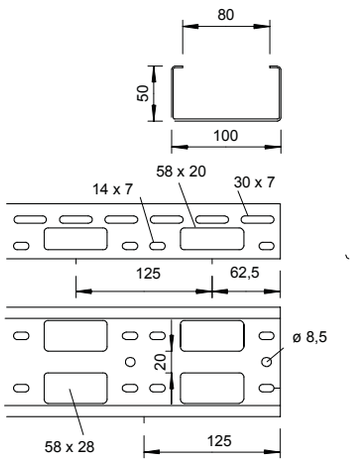
Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
AZK 100 VA4301	100	1.5	6	180,000	**6075304**

V2A Stainless steel, grade 304 /m

AZ channel with a side height of 50 mm.

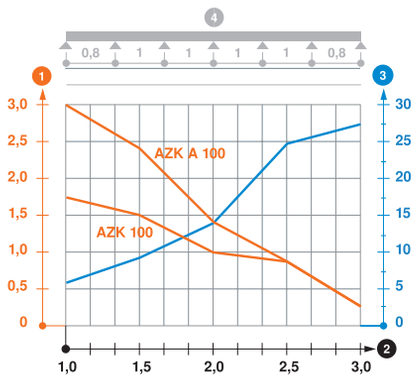
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Dimension B mm	Plate thickness mm	Side height mm
AZK 100 VA4301	3000	100	1.5	50

Load



Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
AZK 100 VA4301	1.7	1.5	1	0.8	0.25

Load diagram, AZ channel

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

AZ channel, 150 mm

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
AZK 150 VA4301	150	1.5	6	231,660	**6075330**
V2A Stainless steel, grade 304					/m

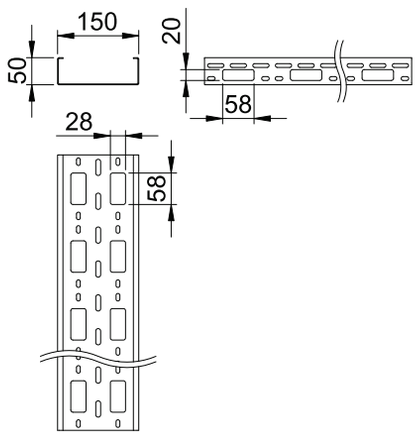
AZ channel with a side height of 50 mm.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.



Dimensions

Type	Length mm	Dimension B mm	Plate thickness mm	Side height mm
AZK 150 VA4301	3000	150	1.5	50



Load

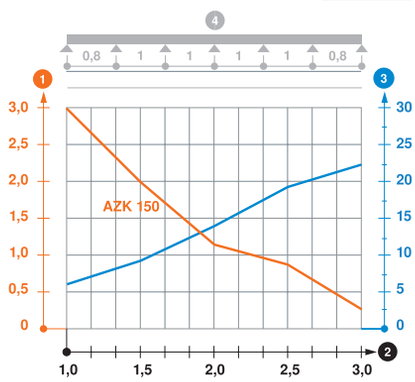
Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
AZK 150 VA4301	3	2	1.2	0.8	0.25

Load diagram, AZ channel

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

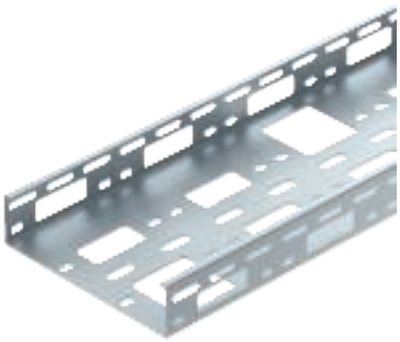
— Strut bend curve according to support width



Always indicate the item number when ordering.

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AZ channel, 200 mm



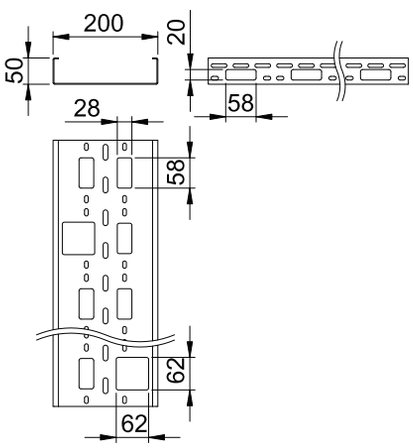
Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
AZK 200 VA4301	200	1.5	6	280,300	**6075355**

V2A Stainless steel, grade 304 /m

AZ channel with a side height of 50 mm.

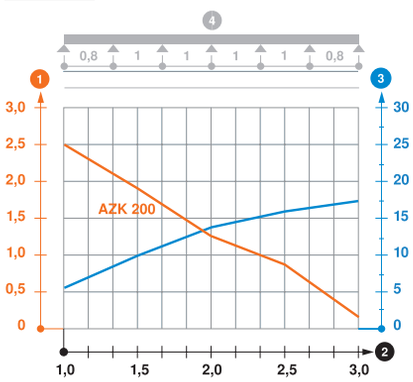
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Dimension B mm	Plate thickness mm	Side height mm
AZK 200 VA4301	3000	200	1.5	50

Load



Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
AZK 200 VA4301	2.5	1.9	1.3	0.8	0.3

Load diagram, AZ channel

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

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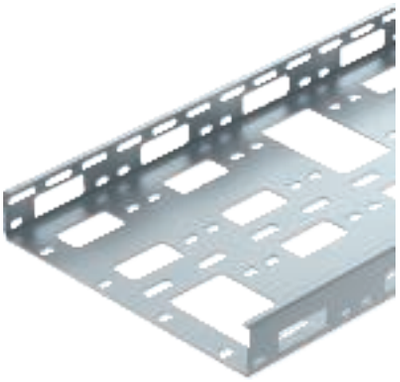
AZ channel, 300 mm

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
AZK 300 VA4301	300	1.5	6	359,300	**6075380**

V2A Stainless steel, grade 304 /m

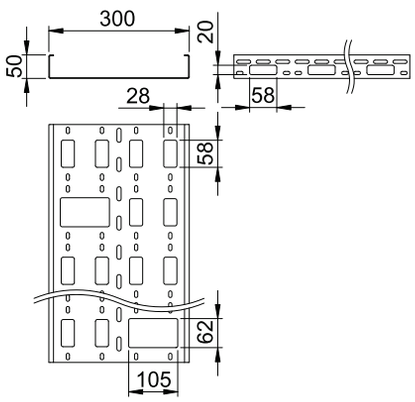
AZ channel with a side height of 50 mm.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.



Dimensions

Type	Length mm	Dimension B mm	Plate thickness mm	Side height mm
AZK 300 VA4301	3000	300	1.5	50



Load

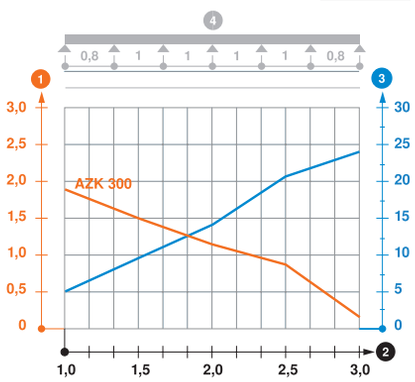
Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
AZK 300 VA4301	1.9	1.5	1.2	0.8	0.3

Load diagram, AZ channel

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width



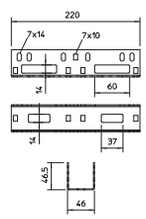
Straight connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VF AZK 50 VA4301	25	27,400	**6066629**

V2A Stainless steel, grade 304 /pc.

An adjustable connector can be created using two straight and angle connectors.

Straight connector for connection of luminaire support channels and AZ channels.

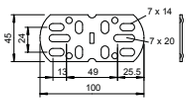




Always indicate the item number when ordering.

Straight and angle connector





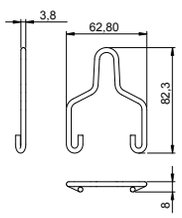
Type		Pack. pcs	Weight kg/100 pcs.	Item No.
VF AZK VA4301		10	7,000	**6066569**
V2A	Stainless steel, grade 304			/pc.

An adjustable connector can be created using two straight and angle connectors. Scope of delivery includes bolts and nuts.

Straight and angle connector for connection of AZ channels.

Suspension bracket



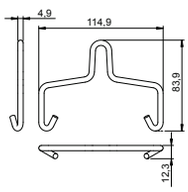


Type	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AHB 50 D4 VA4401	0.35	50	1,985	**6066508**
V4A	Stainless steel, grade 316			/100 pc.

Suspension bracket for chain or steel wire tensioning rope fastening of the luminaire support rail, type LTS 50, and the AZ small duct, type AZK 50.

Suspension bracket



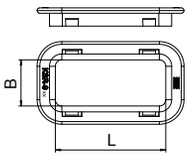


Type	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AHB 100 D5VA4401	0.6	50	4,060	**6066514**
V4A	Stainless steel, grade 316			/100 pc.

Suspension bracket for chain or steel wire tensioning rope fastening of the luminaire support rail, type LTS 100, and the AZ small duct, type AZK 100.

Cable protection ring



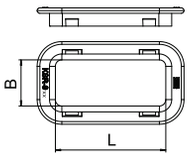


Type	Colour	for perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-910 PE	Light grey	20 x 58	25	0,470	**6066712**
PE	Polyethylene				/pc.

Cable protection ring for bottom perforation in cable trays of type IKS and for side perforation in AZ channels and luminaire support channel.

Cable protection ring



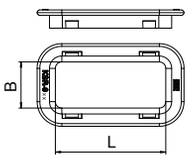


Type	Colour	for perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-915 PE	Light grey	28 x 58	25	0,520	**6066704**
PE	Polyethylene				/pc.

Cable protection ring for bottom perforations in AZ channels and luminaire support channels.

Cable protection ring





Type	Colour	For floor perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-920 PE	Light grey	62 x 62	25	0,770	**6066696**
PE	Polyethylene				/pc.

Cable protection ring for bottom perforations in AZ channels and luminaire support channels.

Always indicate the item number when ordering.

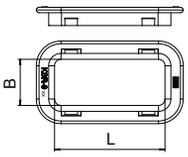
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Cable protection ring

Type	Colour	For floor perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-925 PE	Light grey	105 x 62	25	1,040	**6066688**

PE Polyethylene /pc.

Cable protection ring for bottom perforations in AZ channels and luminaire support channels.





Cover with turn buckle

Type	Width mm	Length mm	Pack. m	Weight kg/100 m	Item No.
AZDMD 50 VA4301	53	3000	30	57,300	**6080197**
AZDMD 100 VA4301	103	3000	3	93,330	**6080294**
AZDMD 150 VA4301	153	3000	3	132,700	**6080870**
AZDMD 200 VA4301	203	3000	3	172,000	**6080895**

V2A Stainless steel, grade 304 /m

Cover with turn buckle for AZ channel.



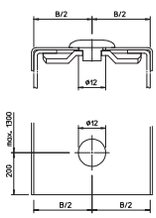


Turn buckle, for 50 mm

Type	For width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
AZDR 50 VA4301	50	10	2,800	**6065309**

V2A Stainless steel, grade 304 /pc.

Turn buckle for installation in the cover for AZ channel of width 50 mm at a later date.



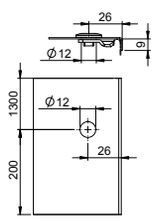


Turn buckle, for 100 mm

Type	For width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
AZDR 100 VA4301	100	10	2,600	**6065317**

V2A Stainless steel, grade 304 /pc.

Turn buckle for installation in the cover for AZ channel and BKK system at a later date.



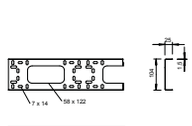


BKK basic profile

Type	Plate thickness mm	Dimension mm	Length mm	Pack. m	Weight kg/100 m	Item No.
BKK 104 VA4301	1.5	104 x 25	3000	3	126,667	**6070779**

V2A Stainless steel, grade 304 /m

BKK basic profile for creation of individual cable trays.



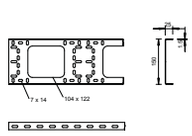


BKK basic profile

Type	Plate thickness mm	Dimension mm	Length mm	Pack. m	Weight kg/100 m	Item No.
BKK 150 VA4301	1.5	150 x 25	3000	3	160,000	**6070787**

V2A Stainless steel, grade 304 /m

BKK basic profile for creation of individual cable trays.

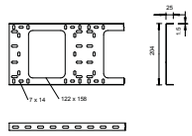




Always indicate the item number when ordering.

BKK basic profile





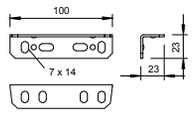
Type	Plate thickness mm	Dimension mm	Length mm	Pack. m	Weight kg/100 m	Item No.
BKK 200 VA4301	1.5	200 x 25	3000	3	210,000	**6070795**

V2A Stainless steel, grade 304 /m

BKK basic profile for creation of individual cable trays.

Joint connector





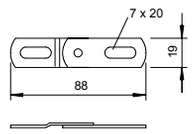
Type	Plate thickness mm	Dimension mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SSV VA4301	2	23 x 23 x 100	25	9,800	**6066054**

V2A Stainless steel, grade 304 /pc.

Joint connector for horizontal connection of BKK basic profiles.

Adjustable connector





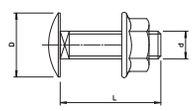
Type	Plate thickness mm	Dimension mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SV VA4301	2	86 x 23	50	4,800	**6066933**

V2A Stainless steel, grade 304 /pc.

Hinge connector for vertical connections of BKK systems.

Truss-head bolt with flange nut





Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Grade	Pack. pcs	Weight kg/100 pcs.	Item No.
FRSB 6x12 A2	M 6 x 12	12	6	13.5	A2-50	100	0,830	**6406138**
FRSB 6x16 A2	M 6 x 16	16	6	13.5	A2-50	100	0,800	**6406189**
FRSB 6x20 A2	M 6 x 20	20	6	13.5	A2-50	100	0,960	**6406205**
FRSB 6x12 A4	M 6 x 12	12	6	13.5	A4-50	100	0,796	**6406142**
FRSB 6x16 A4	M 6 x 16	16	6	13.5	A4-50	100	0,800	**6406193**
FRSB 6x20 A4	M 6 x 20	20	6	13.5	A4-70	100	0,960	**6406207**

V2A Stainless steel, A2 V4A Stainless steel, A4 /100 pc.

Truss-head bolt with square neck including flange nut.

Always indicate the item number when ordering.

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Always indicate the item number when ordering.

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Always indicate the item number when ordering.

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Always indicate the item number when ordering.

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6261314	**7162081**	586
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5858201	**7194117**	471
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6397303	**7205905**	251
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2056 12 ALU	5077299	1183206	478
2056 12 FT	5064459	1160125	475
2056 12 VA	5063612	1159518	634
2056 16 ALU	5077350	1183214	478
2056 16 FT	5064510	1160168	475
2056 16 VA	5063674	1159526	634
2056 2 12 ALU	5435495	1183389	479
2056 2 12 FT	5065357	1161121	476
2056 2 16 ALU	5435556	1183397	479
2056 2 16 FT	5065418	1161164	476
2056 2 22 ALU	5435617	1183400	479
2056 2 22 FT	5065470	1161229	476
2056 2 28 ALU	5435679	1183419	479
2056 2 28 FT	5065531	1161288	476
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2056 2 34 FT	5065593	1161342	476
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2056 2 46 ALU	5435853	1183443	479
2056 2 46 FT	5065715	1161466	476
2056 2 52 ALU	5435914	1183451	479
2056 2 52 FT	5065777	1161520	476
2056 2 58 ALU	5435976	1183478	479
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2056 2 64 FT	5065890	1161644	476
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2056 22 FT	5064572	1160222	475
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2056 52 ALU	5077718	1183273	478
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2056 52 VA	5064039	1159585	634
2056 58 ALU	5077770	1183281	478
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2056 64 ALU	5077831	1183303	478
2056 64 FT	5064992	1160648	475
2056 64 VA	5064152	1159607	634
2056 70 ALU	5435310	1183311	478
2056 70 FT	5065050	1160702	475
2056 70 VA	5064213	1159615	634
2056 76 ALU	5435372	1183338	478
2056 76 FT	5065111	1160761	475
2056 76 VA	5064275	1159623	634
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2056 M 22 FT	5062837	1156020	480
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2056 M 40 FT	5063018	1156055	480
2056 M 40 VA	5668275	1159740	635
2056 M 46 FT	5063070	1156063	480
2056 M 46 VA	5668282	1159746	635
2056 M 52 FT	5063131	1156071	480
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2056 M 58 VA	5668305	1159758	635
2056 M 64 FT	5063254	1156101	480
2056 M 64 VA	5668312	1159764	635
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2056 M 76 FT	5063377	1156136	480
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2056 M2 12 VA	5668343	1161912	636
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2056F 16 FT	5070696	1169165	486
2056F 2 12 FT	5071532	1170120	487
2056F 2 16 FT	5071594	1170163	487
2056F 2 22 FT	5071655	1170228	487
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2056F 2 34 FT	5071778	1170341	487
2056F 2 40 FT	5071839	1170406	487
2056F 2 46 FT	5071891	1170465	487
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2056F 22 FT	5070757	1169211	486
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2056F 40 FT	5070931	1169408	486
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2056F 58 FT	5071112	1169580	486
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2056N 40 FT	5067696	1163396	473
2056N 46 FT	5067757	1163469	473
2056N 52 FT	5067818	1163523	473
2056N 58 FT	5067870	1163582	473
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2056N 70 FT	5067993	1163701	473
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2056U 12 VA	5074595	1178504	637
2056U 16 FT	5072799	1175165	481
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2056U 3 22 FT	5074298	1177222	483
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2056U 3 46 FT	5074533	1177451	483
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2056U 52 FT	5073154	1175521	481
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2056U 58 VA	5075073	1178598	637
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2056W 2 16 FT	5076391	1181165	485
2056W 2 22 FT	5076452	1181211	485
2056W 2 28 FT	5076513	1181289	485
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2058 64 LGR	5081913	1195646	637
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2058FW 22 LGR	5083238	1197223	488
2058FW 22 LGR	5083238	1197223	638
2058FW 28 LGR	5083290	1197282	488
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2058FW 58 LGR	5083597	1197584	488
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AHB 200 FT	6881475	6363911	182
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AHB 300 FT	6881536	6363938	182
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AW 55 71 VA4301	6661879	6443083	618
AW 55 81 FT	6205158	6418686	201
AW 55 91 FT	6205219	6418708	201
AW 80 21 FT	6203475	6417752	202
AW 80 31 FT	6203536	6417779	202
AW 80 41 FT	6203598	6417795	202
AW 80 51 FT	6203659	6417817	202
AW 80 61 FT	6203710	6417833	202
AW 80 71 FT	6203772	6417868	202
AW 80 81 FT	6203833	6417884	202
AW G 15 11 FT	6662470	6420606	199
AW G 15 16 FT	6079155	6420607	199
AW G 15 21 FT	6662531	6420608	199
AW G 15 31 FT	6662593	6420610	199
AW G 15 41 FT	6662654	6420612	199
AW G 15 51 FT	6662715	6420614	199
AW G 15 61 FT	6662777	6420616	199
AWG 15 11 VA4301	5058373	6420625	616
AWG 15 11 VA4571	5706304	6420642	616
AWG 15 21 VA4301	5058380	6420628	616
AWG 15 21 VA4571	5706311	6420644	616
AWG 15 31 VA4301	5058427	6420631	616
AWG 15 31 VA4571	5395362	6420646	616
AWG 15 41 VA4301	5058434	6420634	616
AWG 15 41 VA4571	5706052	6420648	616
AWG 15 51 VA4301	5058502	6420637	616
AWG 15 51 VA4571	5706328	6420650	616
AWG 15 61 VA4301	5058540	6420640	616
AWG 15 61 VA4571	5706359	6420652	616
AWSS 101 FT	6340750	6417938	204
AWSS 21 FT	6340279	6417906	204
AWSS 31 FT	6340330	6417910	204
AWSS 41 FT	6340392	6417914	204
AWSS 51 FT	6340453	6417918	204
AWSS 61 FT	6340514	6417922	204
AWSS 71 FT	6340576	6417926	204
AWSS 81 FT	6340637	6417930	204
AWSS 91 FT	6340699	6417934	204
AWV 21 FT	6206292	6419534	203
AWV 31 FT	6206353	6419550	203
AWV 41 FT	6206414	6419577	203
AWV 51 FT	6206476	6419593	203
AWV 61 FT	6206537	6419615	203
AWVL 11 FS	5058663	6419464	203
AWVL 11 FT	5058670	6419501	203
AWVL 16 FS	5058687	6419468	203
AWVL 16 FT	5058724	6419505	203
AWVL 21 FS	5058731	6419472	203
AWVL 21 FT	5058748	6419509	203
AWVL 31 FS	5058786	6419476	203
AWVL 31 FT	5058793	6419513	203
AWVL 41 FS	5058809	6419480	203
AWVL 41 FT	5058847	6419517	203
		/m	
AZDG 100 FS	6407415	6080979	532
AZDG 50 FS	6407354	6080960	532
AZDMD 100 DD	6406098	6080235	494
AZDMD 100 DD	6406098	6080235	533
AZDMD 100 FS	6069552	6080227	493
AZDMD 100 FS	6069552	6080227	532
AZDMD 100 VA4301	6069613	6080294	645
AZDMD 150 FS	5811305	6080860	532
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AZDMD 300 FS	5811381	6080910	532
AZDMD 300 FT	5811428	6080915	533
AZDMD 50 DD	6405916	6080154	494
AZDMD 50 DD	6405916	6080154	533
AZDMD 50 FS	6069439	6080138	493
AZDMD 50 FS	6069439	6080138	532
AZDMD 50 VA4301	6069491	6080197	645
		/pc.	
AZDR 100 FT	6064397	6065104	533
AZDR 100 VA4301	6064694	6065317	645
AZDR 50 FT	6064458	6065112	533
AZDR 50 VA4301	6064632	6065309	645
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AZDU 100 DD	6084197	6080239	532
AZDU 50 DD	6084135	6080158	532
AZK 050 FS	6068951	6075096	524
AZK 050 FT	6069019	6075142	524
AZK 050 VA4301	6069071	6075150	639
AZK 050 VA4571	5866213	6075152	639
AZK 100 FS	6069132	6075231	526
AZK 100 FT	6069194	6075258	526
AZK 100 VA4301	6069255	6075304	640
AZK 150 FS	5811121	6075320	528
AZK 150 FT	5811138	6075325	528
AZK 150 VA4301	5811145	6075330	641
AZK 200 FS	5811183	6075345	529
AZK 200 FT	5811190	6075350	529
AZK 200 VA4301	5811206	6075355	642
AZK 300 FS	5811244	6075370	530
AZK 300 FT	5811251	6075375	530
AZK 300 VA4301	5811268	6075380	643
AZK A 050 FT	6069316	6076149	525
AZK A 100 FT	6069378	6076246	527
		/pc.	
BC GR 4.8 VA	5980698	6016665	386
BC GR 4.8 VA	5980698	6016665	577
BC GR 6.0 VA	6434152	6016668	384
		/100 pc.	
BE TS GR	5840602	2007833	390
BE TS KR	5840640	2007835	297
BE TS KR	5840640	2007835	348
		/pc.	
BEB 050 DD	6100934	7083616	347
BEB 050 FS	6231010	7083041	347
BEB 100 DD	6983728	7083618	296
BEB 100 DD	6983728	7083618	347
BEB 100 FS	6231072	7083106	296
BEB 100 FS	6231072	7083106	347
BEB 100 VA4301	6232031	7084013	560
BEB 100 VA4571	5866336	7084141	560
BEB 150 DD	6026883	7083622	296
BEB 150 DD	6026883	7083622	347
BEB 150 FS	6231133	7083157	296
BEB 150 FS	6231133	7083157	347
BEB 150 VA4301	5995531	7084015	560
BEB 150 VA4571	5995548	7084142	560
BEB 200 DD	6982943	7083626	296
BEB 200 DD	6982943	7083626	347
BEB 200 DD	6982943	7083626	360
BEB 200 FS	6231195	7083203	296
BEB 200 FS	6231195	7083203	347
BEB 200 VA4301	6232093	7084048	560
BEB 200 VA4571	5866343	7084143	560
BEB 300 DD	6982882	7083630	296
BEB 300 DD	6982882	7083630	347
BEB 300 DD	6982882	7083630	360
BEB 300 FS	6231256	7083300	296
BEB 300 FS	6231256	7083300	347
BEB 300 VA4301	6232154	7084064	560
BEB 300 VA4571	5866350	7084145	560
BEB 400 DD	6024254	7083634	296
BEB 400 DD	6024254	7083634	347
BEB 400 DD	6024254	7083634	360
BEB 400 FS	6231317	7083408	296
BEB 400 FS	6231317	7083408	347

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BEB 500 FS	6231379	7083505	296
BEB 500 FS	6231379	7083505	347
BEB 500 VA4301	6232277	7084102	560
BEB 500 VA4571	5866374	7084149	560
BEB 550 DD	6100996	7083640	347
BEB 550 FS	6231430	7083556	347
BEB 600 DD	6034635	7083642	296
BEB 600 DD	6034635	7083642	347
BEB 600 FS	6231492	7083602	296
BEB 600 FS	6231492	7083602	347
BEB 600 VA4301	6232338	7084129	560
BEB 600 VA4571	5866381	7084151	560
BF 140 10 FT	6295876	6356362	534
BFK 132 58 FT	6079889	6003880	217
BFK 132 58VA4301	6049448	6003871	576
BFK 153 33 FT	6079896	6003884	217
BFK 153 33VA4301	6049561	6003873	576
BFK 166 58 20 FT	6079902	6003888	217
BFK 166 58 20V2A	6049806	6003877	576
BFK 187 33 FT	6079919	6003892	217
BFK 187 33VA4301	6049929	6003879	576
BID 90 200 FT	6445691	6239153	428
BID 90 300 FT	6445752	6239161	428
BID 90 400 FT	6445813	6239188	428
BID 90 500 FT	6445875	6239196	428
BID 90 600 FT	6445936	6239218	428
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BKK 104 FT	6068234	6070248	535
BKK 104 VA4301	6068418	6070779	645
BKK 150 FT	6068296	6070345	535
BKK 150 VA4301	6068470	6070787	645
BKK 200 FT	6068357	6070442	535
BKK 200 VA4301	6068531	6070795	646
BKRS 1010 FS	6341863	6062000	364
BKRS 1020 FS	6341870	6062002	364
BKRS 1030 FS	6341887	6062004	364
BKRS 1040 FS	6341894	6062006	364
BKRS 1050 FS	6341900	6062008	364
BKRS 1060 FS	6341917	6062010	364
BKRS 1110 FS	6147007	6061981	366
BKRS 1120 FS	6147038	6061983	366
BKRS 1130 FS	6147045	6061985	366
BKRS 1140 FS	6147052	6061987	366
BKRS 1150 FS	6147069	6061989	366
BKRS 1160 FS	6147090	6061991	366
		/100 pc.	
BS BKS KP	6147878	6049250	370
BS BKS KP	6147878	6049250	450
BS M6x30 G	6429400	1148898	229
BS M6x30 VA	6429370	1148896	229
BS M6x30 VA	6429370	1148896	625
		/pc.	
BW 60 40 FT	6014590	6019560	192
BW 60 40 FT	6014590	6019560	472
BW 60 40 VA4301	6014651	6019587	614
BW 60 40 VA4301	6014651	6019587	633
BW 60 40 VA4571	5403067	6019583	614
BW 60 40 VA4571	5403067	6019583	633
BW 70 40 FT	6014835	6019706	192
BW 70 40 FT	6014835	6019706	472
BW 80 55 FT	6014538	6019528	193
BW 80 55 FT	6014538	6019528	211
BW 80 55 FT	6014538	6019528	472
		/100 pc.	
BZ 12-15-35/110	6411894	3498350	246
BZ 16-15-35/135	6411917	3498360	246
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BZ-IG M 6-0	6429493	3498370	248
BZ-IG M 8-0	6429509	3498372	248
		/pc.	
BZ-IGS M 10V	6429554	3498384	248
BZ-IGS M 12V	6429561	3498386	248
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		/100 pc.	
BZ-U 10-10-30/90	6411856	3498334	247
BZ-U 8-10-21/75	6411818	3498320	247
BZ-U 8-30-41/95	6411832	3498326	247
BZU10-10-30/90A4	6411863	3498336	247
BZU10-10-30/90A4	6411863	3498336	630
BZ-U10-30-50/110	6411870	3498340	247
BZ-U8-10-21/75A4	6411825	3498322	247
BZ-U8-10-21/75A4	6411825	3498322	630
BZ-U8-30-41/95A4	6411849	3498328	247
BZ-U8-30-41/95A4	6411849	3498328	630
		/m	
CGR 50 100 FT	6013999	6017436	398
CGR 50 100VA4301	6012732	6016235	580
CGR 50 200 FT	6014057	6017444	398
CGR 50 200VA4301	6012794	6016251	580
CGR 50 300 FT	6295692	6017452	398
CGR 50 300VA4301	5891352	6016253	580
CGR 50 400 FT	6014118	6017460	398
CGR 50 400VA4301	5891369	6016255	580
CGR 50 50 FT	6013937	6017428	398
CGR 50 50 VA4301	6012671	6016200	580
		/pc.	
CK 40 100 FT	6007998	6008305	470
CK 40 110 FT	6008056	6008313	470
CK 40 120 FT	6008117	6008321	470
CK 40 20 FT	6629718	6008224	470
CK 40 30 FT	6356058	6008232	470
CK 40 40 FT	6007639	6008240	470
CK 40 50 FT	6007691	6008259	470
CK 40 60 FT	6007752	6008267	470
CK 40 70 FT	6007813	6008275	470
CK 40 80 FT	6007875	6008283	470
CK 40 90 FT	6007936	6008291	470
CKD 40 60 FT	5612766	6008269	470
CKD 40 70 FT	5612773	6008277	470
CKD 40 80 FT	5612780	6008285	470
CKD 40 90 FT	5612797	6008293	470
		/100 pc.	
CM3015P0200FT	5036975	1109782	219
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CM3015P0400FT	5037095	1109804	219
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CM3015P0600FT	5037217	1109820	219
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CM3015P1000FT	5037934	1109863	219
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CM3518 SK	5668114	1124502	220
CML3518P0200FS	5038290	1104268	219
CML3518P0300FS	5038351	1104284	219
CML3518P0400FS	5836353	1104292	219
CML3518P0500FS	5038412	1104306	219
CML3518P0600FS	5036678	1104310	219
CML3518P0700FS	5036739	1104315	219
CML3518P0800FS	5036791	1104320	219
CML3518P0900FS	5036852	1104325	219
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CMS3518P0400FS	5052814	1104391	220
CMS3518P0500FS	5038658	1104403	220
CMS3518P0600FS	5486190	1104411	220
CMS3518P0800FS	5051732	1104427	220
CMS3518P0900FS	5052630	1104435	220
		price/100	
CMS3518P1000FS	5052692	1104445	220
CMS3518P2000FS	5038719	1104454	220
		/pc.	
DB FT	6195671	6356109	178
DB FT	6195671	6356109	496
DB VA 4571	5991830	6356113	605
DBL 50 100 FS	6746118	6015506	181
DBL 50 100 FT	6785414	6015565	181
DBL 50 100VA4571	6937455	6015630	605
DBL 50 150 FS	6746170	6015514	181
DBL 50 150 FT	6785476	6015573	181
DBL 50 200 FS	6746231	6015522	181
DBL 50 200 FT	6785537	6015581	181
DBL 50 200VA4571	6937516	6015632	605
DBL 50 300 FS	6746293	6015530	181
DBL 50 300 FT	6785599	6015603	181
DBL 50 300VA4571	6937578	6015633	605
DBL 50 400 FS	6746354	6015549	181
DBL 50 400 FT	6785650	6015611	181
DBL 50 400VA4571	6937639	6015634	605
DBL 50 500 FS	5239154	6015552	181
DBL 50 500 FT	5239208	6015614	181
DBL 50 600 FS	5239161	6015555	181
DBL 50 600 FT	5239215	6015617	181
DBLG 20 050 FS	6961528	6015646	181
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DBLG 20 050 FT	6042845	6015648	181
DBLG 20 050 FT	6042845	6015648	388
DBLG 20 100 FS	6961580	6015654	181
DBLG 20 100 FS	6961580	6015654	388
DBLG 20 100 FT	6042968	6015656	181
DBLG 20 100 FT	6042968	6015656	388
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DBLG 20 150 FT	6043088	6015660	388
DBLG 20 200 FS	6961641	6015662	181
DBLG 20 200 FS	6961641	6015662	388
DBLG 20 200 FT	6043200	6015664	181
DBLG 20 200 FT	6043200	6015664	388
DBLG 20 300 FS	6961702	6015670	181
DBLG 20 300 FS	6961702	6015670	388
DBLG 20 300 FT	6043323	6015672	181
DBLG 20 300 FT	6043323	6015672	388
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DBLG 20 400 FT	6043446	6015691	181
DBLG 20 400 FT	6043446	6015691	388
DBLG 20 500 FS	5239222	6015693	181
DBLG 20 500 FS	5239222	6015693	388
DBLG 20 500 FT	5239260	6015695	181
DBLG 20 500 FT	5239260	6015695	388
DBLG 20 600 FS	5239277	6015697	181
DBLG 20 600 FS	5239277	6015697	388
DBLG 20 600 FT	5239284	6015699	181
DBLG 20 600 FT	5239284	6015699	388
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DBV 050 S FS	5047551	7130801	356
DBV 100 S DD	5850915	7131508	303
DBV 100 S DD	5850915	7131508	356
DBV 100 S FS	5047568	7130805	303
DBV 100 S FS	5047568	7130805	356
DBV 100 S VA4301	5688600	7130905	564
DBV 100 S VA4571	5886464	7130920	564
DBV 110 100 F DD	5850960	7131556	305
DBV 110 100 F DD	5850960	7131556	358
DBV 110 100 F FS	5712046	7131030	305
DBV 110 100 F FS	5712046	7131030	358
DBV 110 150 F DD	5995777	7131554	358
DBV 110 150 F DD	5995777	7131554	305
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DBV 110 300 F DD	5874775	7131564	358
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DBV 110 300 F FS	5712060	7131038	358
DBV 110 300 F FS	5712060	7131038	305
DBV 110 400 F DD	5809296	7131568	358
DBV 110 400 F DD	5809296	7131568	305
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DBV 110 500 F DD	5874782	7131572	305
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DBV 110 500 F FS	5712084	7131046	305
DBV 110 550 F DD	5874799	7131574	358
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DBV 110 600 F FS	5995760	7131052	358
DBV 110 600 F FS	5995760	7131052	305
DBV 150 S DD	5874386	7131509	303
DBV 150 S DD	5874386	7131509	356
DBV 150 S FS	5047575	7130809	303
DBV 150 S FS	5047575	7130809	356
DBV 150 S VA4301	5995791	7130906	564
DBV 150 S VA4571	5995807	7130921	564
DBV 200 S DD	5809265	7131510	303
DBV 200 S DD	5809265	7131510	356
DBV 200 S FS	5047582	7130813	303
DBV 200 S FS	5047582	7130813	356
DBV 200 S VA4301	5886303	7130907	564
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DBV 300 S DD	5874393	7131514	303
DBV 300 S DD	5874393	7131514	356
DBV 300 S FS	5047612	7130817	303
DBV 300 S FS	5047612	7130817	356
DBV 300 S VA4301	5886327	7130909	564
DBV 300 S VA4571	5886518	7130924	564
DBV 35 050 F DD	5874423	7131590	356
DBV 35 050 F FS	5711896	7130760	356
DBV 35 100 F DD	5874430	7131592	356
DBV 35 100 F FS	5711902	7130764	303
DBV 35 100 F FS	5711902	7130764	356
DBV 35 150 F DD	5874447	7131594	356
DBV 35 150 F FS	5711933	7130768	356
DBV 35 200 F DD	5874485	7131596	356
DBV 35 200 F FS	5711940	7130772	303
DBV 35 200 F FS	5711940	7130772	356
DBV 35 300 F DD	5874492	7131600	356
DBV 35 300 F FS	5711957	7130776	303
DBV 35 300 F FS	5711957	7130776	356
DBV 400 S DD	5809272	7131518	303
DBV 400 S DD	5809272	7131518	356
DBV 400 S FS	5047629	7130821	303
DBV 400 S FS	5047629	7130821	356
DBV 400 S VA4301	5886365	7130911	564
DBV 400 S VA4571	5886525	7130926	564
DBV 500 S DD	5874409	7131524	303
DBV 500 S DD	5874409	7131524	356
DBV 500 S FS	5047636	7130825	303
DBV 500 S FS	5047636	7130825	356
DBV 500 S VA4301	5886389	7130913	564
DBV 500 S VA4571	5886556	7130928	564
DBV 60 050 F DD	5874508	7131630	357
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DBV 60 100 F DD	5874546	7131632	304
DBV 60 100 F DD	5874546	7131632	357
DBV 60 100 F FS	5047681	7130852	304
DBV 60 100 F FS	5047681	7130852	357
DBV 60 150 F DD	5874553	7131634	304
DBV 60 150 F DD	5874553	7131634	357
DBV 60 150 F FS	5047698	7130856	304
DBV 60 150 F FS	5047698	7130856	357
DBV 60 200 F DD	5874560	7131636	304
DBV 60 200 F DD	5874560	7131636	357
DBV 60 200 F FS	5047704	7130860	304
DBV 60 200 F FS	5047704	7130860	357
DBV 60 300 F DD	5874607	7131640	304
DBV 60 300 F DD	5874607	7131640	357
DBV 60 300 F FS	5047735	7130864	304
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DBV 60 500 F DD	5874621	7131648	357
DBV 60 500 F FS	5047759	7130872	304
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DBV 60 600 F DD	5874669	7131652	304
DBV 60 600 F DD	5874669	7131652	357
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DBV 60 600 F FS	5047766	7130876	357
DBV 600 S DD	5874416	7131527	303
DBV 600 S DD	5874416	7131527	356
DBV 600 S FS	5047643	7130829	303
DBV 600 S FS	5047643	7130829	356
DBV 600 S VA4301	5886419	7130915	564
DBV 600 S VA4571	5886563	7130930	564
DBV 85 100 F DD	5874676	7131672	304
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DBV 85 100 F FS	5711964	7130990	304
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DBV 85 200 F DD	5874683	7131676	357
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DBV 85 200 F FS	5711995	7130994	357
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DBV 85 300 F DD	5874713	7131680	357
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DBV 85 300 F FS	5712008	7130998	357
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DBV 85 400 F DD	5874720	7131684	357
DBV 85 400 F DD	5874720	7131684	304
DBV 85 400 F FS	5712015	7131002	357
DBV 85 400 F FS	5712015	7131002	304
DBV 85 500 F DD	5874737	7131688	357
DBV 85 500 F DD	5874737	7131688	304
DBV 85 500 F FS	5712022	7131006	357
DBV 85 500 F FS	5712022	7131006	304
DBV 85 600 F DD	5874744	7131692	357
DBV 85 600 F DD	5874744	7131692	304
DBV 85 600 F FS	5712039	7131010	357
DBV 85 600 F FS	5712039	7131010	304
DBV FS	5373070	6356055	178
DBV FS	5373070	6356055	496
DBV60100F VA4301	5688617	7130952	565
DBV60100F VA4571	5886310	7130972	565
DBV60150F VA4301	5995814	7130953	565
DBV60150F VA4571	5995821	7130973	565
DBV60200F VA4301	5886259	7130954	565
DBV60200F VA4571	5886358	7130974	565
DBV60300F VA4301	5886266	7130956	565
DBV60300F VA4571	5886372	7130976	565
DBV60400F VA4301	5886273	7130958	565
DBV60400F VA4571	5886426	7130978	565
DBV60500F VA4301	5886280	7130960	565
DBV60500F VA4571	5886433	7130980	565
DBV60600F VA4301	5886297	7130962	565
DBV60600F VA4571	5886440	7130982	565
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DF BKR10 10 FSAL	6335671	6049200	368
DF BKR10 FS AL	6146826	6049181	368
DF BKR1010 4FSAL	6449132	6049110	368
DF BKR20 10 FSAL	6335688	6049202	368
DF BKR20 FS AL	6146857	6049183	368
DF BKR2010 4FSAL	6449149	6049111	368
DF BKR30 10 FSAL	6335695	6049204	368
DF BKR30 FS AL	6146864	6049185	368
DF BKR3010 4FSAL	6449156	6049112	368
DF BKR40 10 FSAL	6335701	6049206	368
DF BKR40 FS AL	6146871	6049187	368
DF BKR4010 4FSAL	6449163	6049113	368
DF BKR50 10 FSAL	6335732	6049208	368
DF BKR50 FS AL	6146888	6049189	368
DF BKR5010 4FSAL	6449194	6049114	368
DF BKR60 10 FSAL	6335749	6049210	368
DF BKR60 FS AL	6146918	6049191	368
DF BKR6010 4FSAL	6449200	6049115	368
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DFAA 050 DD	6252138	7131291	353
DFAA 100 DD	6252190	7131305	353
DFAA 100 FS	6249015	7128428	353
DFAA 100 VA4301	6257058	7136900	566
DFAA 150 DD	6027484	7131310	353
DFAA 150 FS	6526154	7128436	353

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DFAA 200 VA4301	6257119	7136919	566
DFAA 200 VA4571	5866800	7136921	566
DFAA 300 DD	6252312	7131348	353
DFAA 300 FS	6249138	7128460	353
DFAA 300 VA4301	6257171	7136927	566
DFAA 300 VA4571	5866817	7136929	566
DFAA 400 DD	6252374	7131356	354
DFAA 400 VA4301	6257232	7136935	567
DFAA 400 VA4571	5866824	7136937	567
DFAA 500 FS	6249251	7128509	354
DFAA 500 VA4301	6257294	7136943	567
DFAA 500 VA4571	5866862	7136944	567
DFAA 550 DD	6252497	7131372	354
DFAA 550 FS	6249312	7128517	354
DFAA 600 DD	6252558	7131380	354
DFAA 600 FS	6249374	7128525	354
DFAA 600 VA4301	6257355	7136978	567
DFAA 600 VA4571	5866879	7136980	567
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DFAAM 100 FS	5930587	7138640	302
DFAAM 100 V2A	5930723	7138720	563
DFAAM 100 V4A	5930815	7138740	563
DFAAM 150 DD	5930662	7138682	302
DFAAM 150 FS	5930594	7138642	302
DFAAM 150 V2A	5930754	7138722	563
DFAAM 150 V4A	5930822	7138742	563
DFAAM 200 DD	5930679	7138684	302
DFAAM 200 FS	5930600	7138644	302
DFAAM 200 V2A	5930761	7138724	563
DFAAM 200 V4A	5930839	7138744	563
DFAAM 300 DD	5930686	7138686	302
DFAAM 300 FS	5930617	7138646	302
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DFAAM 300 V4A	5930846	7138746	563
DFAAM 400 DD	5930693	7138688	302
DFAAM 400 FS	5930624	7138648	302
DFAAM 400 V2A	5930785	7138728	563
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DFAAM 500 V4A	5930860	7138750	563
DFAAM 600 DD	5930716	7138692	302
DFAAM 600 FS	5930648	7138652	302
DFAAM 600 V2A	5930808	7138732	563
DFAAM 600 V4A	5930877	7138752	563
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DFB 45 100 DD	6252671	7131828	352
DFB 45 100 FS	6249855	7128819	352
DFB 45 100VA4301	6253814	7133901	565
DFB 45 100VA4571	5866480	7133984	565
DFB 45 150 DD	6027125	7131836	352
DFB 45 150 FS	6526338	7128827	352
DFB 45 200 DD	6252732	7131844	352
DFB 45 200 FS	6249916	7128835	352
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DFB 45 200VA4571	5866497	7133986	565
DFB 45 300 DD	6252794	7131860	352
DFB 45 300 FS	6249978	7128851	352
DFB 45 300VA4301	6253937	7133936	565
DFB 45 300VA4571	5866503	7133988	565
DFB 45 400 DD	6252855	7131879	352
DFB 45 400 FS	6250035	7128886	352
DFB 45 400VA4301	6253999	7133944	565
DFB 45 400VA4571	5866510	7133990	565
DFB 45 500 DD	6252916	7131887	352
DFB 45 500 FS	6250097	7128908	352
DFB 45 500VA4571	5866527	7133992	565
DFB 45 550 DD	6252978	7131895	352
DFB 45 550 FS	6250158	7128916	352
DFB 45 600 DD	6253036	7131909	352
DFB 45 600 FS	6250219	7128924	352
DFB 45 600VA4301	6254118	7133979	565
DFB 45 600VA4571	5866534	7133994	565
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DFB 90 100 FS	6250752	7129610	353
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DFB 90 100VA4571	5866633	7134982	566
DFB 90 150 DD	6015436	7130538	353
DFB 90 150 FS	6526451	7129629	353
DFB 90 200 DD	6251292	7130546	353

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DFB 90 200VA4571	5866640	7134988	566
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DFB 90 300 FS	6250875	7129653	353
DFB 90 300VA4301	6255016	7134924	566
DFB 90 300VA4571	5866657	7134990	566
DFB 90 400 DD	6251414	7130589	353
DFB 90 400 FS	6250936	7129688	353
DFB 90 400VA4301	6255078	7134932	566
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DFB 90 500 DD	6251476	7130600	353
DFB 90 500 FS	6250998	7129718	353
DFB 90 500VA4301	6255139	7134940	566
DFB 90 500VA4571	5866671	7134994	566
DFB 90 550 DD	6251537	7130619	353
DFB 90 550 FS	6251056	7129726	353
DFB 90 600 DD	6251599	7130627	353
DFB 90 600 FS	6251117	7129734	353
DFB 90 600VA4301	6255191	7134967	566
DFB 90 600VA4571	5866688	7134996	566
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DFBM 45 100 FS	5928751	7138360	301
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DFBM 45 150 FS	5928768	7138362	301
DFBM 45 150 V2A	5928959	7138432	562
DFBM 45 200 DD	5928867	7138404	301
DFBM 45 200 FS	5928775	7138364	301
DFBM 45 200 V2A	5928966	7138434	562
DFBM 45 300 DD	5928874	7138406	301
DFBM 45 300 FS	5928782	7138366	301
DFBM 45 300 V2A	5928973	7138436	562
DFBM 45 400 DD	5928881	7138408	301
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DFBM 45 400 V2A	5928980	7138438	562
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DFBM 90 150 DD	5929208	7138542	301
DFBM 90 150 FS	5929109	7138502	301
DFBM 90 150 V2A	5929277	7138572	563
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DFBM 90 200 FS	5929116	7138504	301
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DFBM 90 200 V4A	5929352	7138594	563
DFBM 90 300 DD	5929222	7138546	301
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DFBM 90 500 DD	5929246	7138550	301
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DFBM 90 600 DD	5929253	7138552	301
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DFBMV 150 FS	6040551	6040762	301
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DFBMV 150 VA4571	6041145	6040822	563
DFBMV 200 DD	6040797	6040784	301
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DFBMV 200 VA4301	6040988	6040804	563
DFBMV 200 VA4571	6041152	6040824	563
DFBMV 300 DD	6040834	6040786	301
DFBMV 300 FS	6040605	6040766	301
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DFBMV 300 VA4571	6041220	6040826	563
DFBMV 400 DD	6040841	6040788	301

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DFBMV 500 FS	6040674	6040770	301
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DFBMV 500 VA4571	6041268	6040830	563
DFBMV 600 DD	6040896	6040792	301
DFBMV 600 FS	6040711	6040772	301
DFBMV 600 VA4301	6041107	6040812	563
DFBMV 600 VA4571	6041275	6040832	563
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DFK 100 FS	6249435	7128614	355
DFK 150 FS	6845651	7128622	355
DFK 200 DD	6251773	7131100	355
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DFK 300 DD	6251834	7131127	355
DFK 300 FS	6249558	7128657	355
DFK 400 DD	6251896	7131143	355
DFK 400 FS	6249619	7128673	355
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DFK 500 FS	6249671	7128703	355
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DFK 600 FS	6249794	7128738	355
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DFKM 150 FS	5931263	7138932	303
DFKM 150 V2A	5931423	7139022	564
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DFTM 200 V2A	5931119	7138864	564
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DFTM 300 DD	5931010	7138836	302
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DFTM 400 FS	5930921	7138798	302
DFTM 400 V2A	5931133	7138868	564
DFTM 400 V4A	5931201	7138888	564
DFTM 500 DD	5931058	7138840	302
DFTM 500 FS	5930938	7138800	302
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DFTM 500 V4A	5931232	7138890	564
DFTM 600 DD	5931065	7138842	302
DFTM 600 FS	5930945	7138802	302
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DHI 050	6397228	7205900	251
DHI 060	6397235	7205901	251
DHI 070	6397242	7205902	251
DHI 080	6397266	7205903	251
DHI 090	6397297	7205904	251
DHI 100	6397303	7205905	251
DHI 110	6397310	7205906	251
DHI 120	6397327	7205907	251
DHI 130	6397358	7205908	251
DHI 140	6397365	7205909	251
DHI 150	6397372	7205910	251
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DIN 128 A M12 G	5302476	3405125	240
DIN 128 A M6 G	5302292	3405060	240
DIN 128 A M8 G	5302353	3405087	240
DIN 6798 A M10 G	5301752	3404102	240
DIN 6798 A M12 G	5301813	3404129	240
DIN 6798 A M6 G	5301639	3404064	240
DIN 6798 A M8 G	5301691	3404080	240
DIN 6798 M6 4401	6095506	3404372	627
DIN 6798 M6 VA	5301936	3404331	627
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DIN 6798 M8 4401	6095513	3404377	627
DIN 6798 M8 VA	5301998	3404358	627
DIN 6798 M8 VA	5301998	3404358	240
DIN 6923 M10 VA	5849711	3156122	241
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DIN 6923 M12 VA	5849728	3156126	241
DIN 6923 M12 VA	5849728	3156126	628
DIN 6923 M8 VA	5849643	3156120	241
DIN 6923 M8 VA	5849643	3156120	628
DIN 934 M10 G	5298212	3400107	241
DIN 934 M10 V4A	5618072	3400177	628
DIN 934 M10 VA	5297796	3397106	241
DIN 934 M10 VA	5297796	3397106	628
DIN 934 M12 G	5298274	3400123	241
DIN 934 M12 V4A	5894810	3397145	628
DIN 934 M12 VA	5297857	3397114	241
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DIN 934 M6 G	5298090	3400069	241
DIN 934 M6 V4A	5909293	3400173	628
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DIN 934 M8 G	5298151	3400085	241
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DIN 934 M8 VA	5297734	3397084	241
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DIN440 14 F	6480135	6408737	239
DIN440 7 F	6479955	6408702	239
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DIN934 M12 F	5298571	3400379	241
DIN934 M6 F	5298397	3400344	241
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DKL 85 VA4310	6517756	6065546	299
DKL 85 VA4310	6517756	6065546	350
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DKS 610 FS	6069736	6085016	320
DKS 610 FT	6070091	6085326	320
DKS 610 VA4571	6181933	6085668	545
DKS 620 FS	6069798	6085032	320
DKS 620 FT	6070152	6085342	320
DKS 620 VA4571	6343218	6085672	545
DKS 630 FS	6069859	6085059	320
DKS 630 FT	6070213	6085369	320
DKS 630 VA4571	6955510	6085673	545
DKS 640 FS	6069910	6085202	320
DKS 640 FT	6070275	6085512	320
DKS 640 VA4571	5020998	6085675	545
DKS 650 FS	6069972	6085229	320
DKS 650 FT	6070336	6085539	320
DKS 660 FS	6070039	6085245	320
DKS 660 FT	6070398	6085555	320
DKS 810 FT	6071173	6086470	332
DKS 820 FT	6071234	6086497	332
DKS 830 FT	6071296	6086519	332
DKS 840 FT	6071357	6086659	332
DKS 850 FT	6071418	6086675	332
DKS 860 FT	6071470	6086691	332
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DKU VA4310	6441372	6065600	299
DKU VA4310	6441372	6065600	350
DKU VA4310	6441372	6065600	391
DKU VA4310	6441372	6065600	532
DKU VA4310	6441372	6065600	561
DKU VA4310	6441372	6065600	579
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DMFR 200 FT	6952397	6083150	361
DMFR 300 FT	6952458	6083152	361
DMFR 400 FT	6952519	6083154	361
DRL 050 DD	6038718	6052700	351
DRL 050 FS	6057856	6052053	351
DRL 050 FT	6433995	6051332	351
DRL 075 FS	6385577	6052029	501
DRL 075 FS	6385577	6052029	351
DRL 100 DD	6038770	6052703	300
DRL 100 DD	6038770	6052703	351
DRL 100 FS	6057979	6052096	300
DRL 100 FS	6057979	6052096	351
DRL 100 FT	6432370	6051340	351
DRL 100 VA4301	6058877	6052878	562
DRL 100 VA4571	5675679	6052980	562
DRL 100 VA4571	5675679	6052980	587
DRL 150 DD	6038831	6052706	300
DRL 150 DD	6038831	6052706	351
DRL 150 FS	6058099	6052150	300
DRL 150 FS	6058099	6052150	351
DRL 150 FT	6432257	6051359	351
DRL 150 VA4301	5995838	6052886	562
DRL 150 VA4571	5995845	6052982	562
DRL 150 VA4571	5995845	6052982	587
DRL 200 DD	6038893	6052709	428
DRL 200 DD	6038893	6052709	300
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DRL 200 FS	6058150	6052207	428
DRL 200 FS	6058150	6052207	300
DRL 200 FS	6058150	6052207	351
DRL 200 FT	6611898	6051367	351
DRL 200 VA4301	6058938	6052894	587
DRL 200 VA4301	6058938	6052894	562
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DRL 200 VA4571	5866169	6052981	587
DRL 300 DD	6038954	6052712	428
DRL 300 DD	6038954	6052712	300
DRL 300 DD	6038954	6052712	351
DRL 300 FS	6058273	6052304	428
DRL 300 FS	6058273	6052304	300
DRL 300 FS	6058273	6052304	351
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DRL 400 FT	6611713	6051413	351
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DRL 400 VA4301	6059058	6052932	562
DRL 400 VA4571	5870883	6052984	562
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DRL 550 FS	6058631	6052568	351
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DRL 600 FS	6058754	6052606	428
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DRL 600 FT	6595631	6051472	351
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DRL 600 VA4571	5866190	6052986	562
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DRL FAM 330 V2A	6219636	6051194	588
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DRL FAM 430 FT	6179862	6051226	450
DRL FAM 430 FT	6179862	6051226	463
DRL FAM 430 V2A	6219643	6051196	588
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GMA M10 FS	6421510	6015247	390
GMA M10 FT	6942619	6015255	390
GMA M6 FS	6421695	6015220	390
GMA M6 FT	5649786	6015224	390
GMA M8 FS	6421572	6015239	390
GMA M8 FT	5928737	6015243	390
		/100 pc.	
GMF22 M10 G	5445661	1146459	228
GMF22 M10 V4A	5890478	1146438	228
GMF22 M10 V4A	5890478	1146438	624
GMF22 M12 G	5445678	1146463	228
GMF22 M12 V4A	5890485	1146442	228
GMF22 M12 V4A	5890485	1146442	624
GMF22 M6 G	5445616	1146451	228
GMF22 M6 V4A	5890454	1146430	228
GMF22 M6 V4A	5890454	1146430	624
GMF22 M8 G	5445623	1146455	228
GMF22 M8 V4A	5890461	1146434	228
GMF22 M8 V4A	5890461	1146434	624
GMH18 M10 G	5054672	1146521	242
GMH18 M10 VA	5084907	1146560	624
GMH18 M12 VA	5084167	1146562	624
GMH18 M6 G	5054559	1146505	242
GMH18 M6 VA	5084129	1146556	624
GMH18 M8 G	5054610	1146513	242
GMH18 M8 VA	5084150	1146558	624
GMH22 M10 G	5054917	1146629	242
GMH22 M10 VA	5084211	1146650	242
GMH22 M10 VA	5084211	1146650	624
GMH22 M12 G	5054979	1146637	242
GMH22 M12 VA	5084228	1146652	242
GMH22 M12 VA	5084228	1146652	624
GMH22 M6 G	5054795	1146602	242
GMH22 M6 VA	5084174	1146646	242
GMH22 M6 VA	5084174	1146646	624
GMH22 M8 G	5054856	1146610	242
GMH22 M8 VA	5084181	1146648	242
GMH22 M8 VA	5084181	1146648	624
GMS 1 VP FT	5486015	1124643	225
GMS 1 VP G	5485759	1124603	225
		/pc.	
GMS 170 FS	6940875	6015400	389
GMS 170 VA4404	6952090	6015418	389
GMS 170 VA4404	6952090	6015418	578
		/100 pc.	
GMS 2 VP FT	5486022	1124645	225

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		/100 pc.	
GMS 2 VP G	5485766	1124605	225
GMS 2 VW 90 FT	5486091	1124659	227
GMS 2 VW 90 G	5485919	1124619	227
		/pc.	
GMS 270 FS	6940936	6015402	389
GMS 270 VA4404	6952151	6015419	389
GMS 270 VA4404	6952151	6015419	578
		/100 pc.	
GMS 3 O 4121 FT	5486152	1124671	226
GMS 3 O 4121 G	5485971	1124631	226
GMS 3 O 4141 FT	5486169	1124673	226
GMS 3 O 4141 G	5485988	1124633	226
GMS 3 VP FT	5486039	1124647	225
GMS 3 VP G	5485803	1124607	225
GMS 3 VP L FT	5486060	1124653	226
GMS 3 VP L G	5485865	1124613	226
GMS 3 VW 45 FT	5486138	1124667	226
GMS 3 VW 45 G	5485957	1124627	226
GMS 3 VW 90 FT	5486107	1124661	227
GMS 3 VW 90 G	5485926	1124621	227
		/pc.	
GMS 370 FS	6940998	6015404	389
GMS 370 VA4404	6952212	6015420	389
GMS 370 VA4404	6952212	6015420	578
		/100 pc.	
GMS 4 KD 90 FT	5486121	1124665	227
GMS 4 KD 90 G	5485940	1124625	227
GMS 4 VP FT	5486046	1124649	225
GMS 4 VP G	5485810	1124609	225
GMS 4 VP T FT	5486077	1124655	226
GMS 4 VP T G	5485872	1124615	226
GMS 4 VW 45 FT	5486145	1124669	227
GMS 4 VW 45 G	5485964	1124629	227
GMS 4 VW 90 FT	5486114	1124663	227
GMS 4 VW 90 G	5485933	1124623	227
		/pc.	
GMS 470 FS	6941056	6015406	389
GMS 470 VA4404	6952274	6015421	389
GMS 470 VA4404	6952274	6015421	578
		/100 pc.	
GMS 5 VP FT	5486053	1124651	225
GMS 5 VP G	5485827	1124611	225
GMS 5 VP X FT	5486084	1124657	225
GMS 5 VP X G	5485889	1124617	225
		/pc.	
GMS 570 FS	6941117	6015408	389
GMS 570 VA4404	6952335	6015422	389
GMS 570 VA4404	6952335	6015422	578
GP 15 28 FT	6296354	6357008	534
GP 31 28 FT	6296415	6357016	534
		/m	
GR 155 300 G	5380153	6003681	383
GR 155 450 G	5380160	6003684	383
GR 155 500 G	5382546	6003685	383
GR 155 600 G	5380191	6003687	383
		/pc.	
GR BS	6931330	6017700	392
		/100 pc.	
GR KS 3.9 OR	5872887	6003750	392
GR KS 4.8 OR	5872894	6003754	392
GR KS 6.0 OR	5872900	6003758	384
		/pc.	
GRB 90 110 FT	6002054	6002307	382
GRB 90 110 G	5456230	6002370	382
GRB 90 115 FT	6027361	6002311	382
GRB 90 115 G	5456247	6002372	382
GRB 90 120 FT	6002115	6002315	382
GRB 90 120 G	5456254	6002374	382
GRB 90 130 FT	6002177	6002323	382
GRB 90 130 G	5456261	6002376	382
GRB 90 140 FT	6002238	6002331	382
GRB 90 140 G	5456278	6002378	382
GRB 90 150 FT	6002290	6002358	382
GRB 90 150 G	5456292	6002382	382
GRB 90 160 FT	6002351	6002366	382
GRB 90 160 G	5456308	6002384	382
GRB 90 510 FT	6001699	6002218	380
GRB 90 510 G	6352630	6001920	380
GRB 90 515 FT	6027248	6002222	380

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		/pc.	
GRB 90 515 G	6624799	6001998	380
GRB 90 520 FT	6001750	6002226	380
GRB 90 520 G	6352692	6001939	380
GRB 90 530 FT	6001811	6002234	380
GRB 90 530 G	6352753	6001947	380
GRB 90 540 FT	6001873	6002242	380
GRB 90 540 G	6352814	6001955	380
GRB 90 550 FT	6001934	6002250	380
GRB 90 550 G	6352876	6001963	380
GRB 90 560 FT	6001996	6002269	380
GRB 90 560 G	6352937	6001971	380
		/m	
GRM 105 100 FT	6021239	6002431	381
GRM 105 100 G	6020270	6002402	381
GRM 105 150 FT	6021352	6002433	381
GRM 105 150 G	6020393	6002404	381
GRM 105 200 FT	6021475	6002435	381
GRM 105 200 G	6020515	6002406	381
GRM 105 300 FT	6021598	6002437	381
GRM 105 300 G	6020638	6002408	381
GRM 105 400 FT	6021710	6002439	381
GRM 105 400 G	6020751	6002410	381
GRM 105 500 FT	6021956	6002443	381
GRM 105 500 G	6020997	6002415	381
GRM 105 600 FT	6022076	6002445	381
GRM 105 600 G	6021116	6002417	381
GRM 35 100 FT	5037200	6000071	374
GRM 35 100 G	5037149	6000062	374
GRM 35 100VA4301	5467700	6000055	568
GRM 35 100VA4401	5360759	6000087	568
GRM 35 150 FT	5037231	6000072	374
GRM 35 150 G	5037170	6000063	374
GRM 35 150VA4301	5467731	6000056	568
GRM 35 150VA4401	5360766	6000089	568
GRM 35 200 FT	5037248	6000073	374
GRM 35 200 G	5037187	6000064	374
GRM 35 200VA4301	5470724	6000057	568
GRM 35 200VA4401	5360773	6000090	568
GRM 35 300 FT	5037255	6000075	374
GRM 35 300 G	5037194	6000066	374
GRM 35 300VA4301	5470731	6000059	568
GRM 35 300VA4401	5360780	6000091	568
GRM 35 50 FT	5624820	6000069	374
GRM 35 50 G	5624813	6000060	374
GRM 35 50VA4301	5650591	6000054	568
GRM 35 50VA4401	5978077	6000086	568
GRM 55 100 F	6317233	6001040	376
GRM 55 100 FT	6814879	6001416	377
GRM 55 100 G	6858552	6001442	376
GRM 55 100VA4301	6101290	6001072	569
GRM 55 100VA4401	5166016	6001088	569
GRM 55 150 F	6317356	6001044	376
GRM 55 150 FT	6078912	6001418	377
GRM 55 150 G	6078974	6001444	376
GRM 55 150VA4301	6101351	6001074	569
GRM 55 150VA4401	5166023	6001090	569
GRM 55 200 4.8 G	5045274	6001447	376
GRM 55 200 4.8FT	5045281	6001421	377
GRM 55 200 F	6317479	6001047	376
GRM 55 200 FT	6814930	6001420	377
GRM 55 200 G	6858613	6001446	376
GRM 55 200VA4301	6101412	6001076	569
GRM 55 200VA4401	5166061	6001091	569
GRM 55 300 F	6323531	6001050	376
GRM 55 300 FT	6815050	6001424	377
GRM 55 300 G	6858675	6001448	376
GRM 55 300VA4301	6101771	6001078	569
GRM 55 300VA4401	5166078	6001093	569
GRM 55 400 F	6323838	6001053	376
GRM 55 400 FT	6815111	6001428	377
GRM 55 400 G	6858736	6001450	376
GRM 55 400VA4301	6102198	6001080	569
GRM 55 400VA4401	5166085	6001095	569
GRM 55 50 FT	5430940	6001415	377
GRM 55 50 G	5430957	6001441	376
GRM 55 500 F	6324132	6001056	376
GRM 55 500 FT	6815173	6001432	377
GRM 55 500 G	6858798	6001452	376
GRM 55 500VA4301	6102259	6001082	569
GRM 55 500VA4401	5166122	6001097	569
GRM 55 50VA4301	5430933	6001070	569
GRM 55 50VA4401	5431046	6001087	569
GRM 55 600 F	6324439	6001059	376
GRM 55 600 FT	6815234	6001436	377

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		/m	
GRM 55 600 G	6858859	6001454	376
GRM 55 600VA4301	6102310	6001085	569
GRM 55 600VA4401	5166139	6001099	569
GRM105 100VA4301	5149620	6002451	570
GRM105 100VA4401	5874904	6002475	570
GRM105 150VA4301	5422624	6002455	570
GRM105 150VA4401	5874911	6002476	570
GRM105 200VA4301	5149637	6002457	570
GRM105 200VA4401	5874928	6002477	570
GRM105 300VA4301	5149644	6002460	570
GRM105 300VA4401	5874959	6002479	570
GRM105 400VA4301	5149675	6002463	570
GRM105 400VA4401	5874966	6002481	570
GRM105 500VA4301	5149682	6002466	570
GRM105 500VA4401	5874980	6002483	570
GRM105 600VA4301	5771586	6002469	570
GRM105 600VA4401	5875017	6002485	570
GRM-2T 55 200 G	5438649	6006395	379
GRM-2T 55 300 G	5438656	6006396	379
GRM-2T 55 400 G	5438663	6006397	379
GRM-2T 55 500 G	5480419	6006468	379
GRM-T 55 100 G	6150854	6006453	378
GRM-T 55 200 G	6151219	6006455	378
GRM-T 55 300 G	6151578	6006456	378
GRM-T 55 400 G	6151936	6006457	378
GRM-T 55 500 G	6152292	6006458	378
		/pc.	
GRS 3.9 DD	6518111	6016545	385
GRS 4.8 DD	6517992	6016561	385
GRV 245 DD	6054251	6016684	385
GRV 245 FS	6052578	6016680	385
GRV 245 VA4404	6054312	6016688	575
GSV 34 FT	6013159	6016634	385
GSV 34 FT	6013159	6016634	399
GSV 34 G	6520510	6016596	385
GSV 34 VA4301	6013210	6016642	575
GSV 34 VA4301	6013210	6016642	580
GSV 34 VA4401	6120079	6016648	575
GSV 6.0 G	5390121	6016589	383
GVM 200 FT	6947898	6083210	359
		/100 pc.	
GVMS 4 ASV FT	5486008	1124641	226
GVMS 4 ASV G	5485742	1124601	226
		/m	
GW 40 80 FT	6002955	6003818	392
		/100 pc.	
HGMH18 M10 G	5055150	1146734	242
HGMH18 M12 G	5055211	1146742	242
HGMH18 M6 G	5055037	1146718	242
HGMH18 M8 G	5055099	1146726	242
HGMH22 M10 G	5055334	1146815	243
HGMH22 M12 G	5055396	1146823	243
HGMH22 M8 G	5055273	1146807	243
HKF22 M10x30 G	5445739	1148961	230
HKF22 M10x30 V4A	5941934	1148996	230
HKF22 M10x30 V4A	5941934	1148996	624
HKF22 M10x50 G	5445746	1148966	230
HKF22 M10x50 V4A	5941941	1148998	230
HKF22 M10x50 V4A	5941941	1148998	624
HKF22 M12x30 G	5445784	1148972	230
HKF22 M12x30 V4A	5941972	1149002	230
HKF22 M12x30 V4A	5941972	1149002	624
HKF22 M8x30 G	5445685	1148950	230
HKF22 M8x30 V4A	5941910	1148990	230
HKF22 M8x30 V4A	5941910	1148990	624
HKF22 M8x50 G	5445722	1148955	230
HKF22 M8x50 V4A	5941927	1148992	230
HKF22 M8x50 V4A	5941927	1148992	624
HMS-KS5X50	5964100	3498204	250
		/pc.	
H-RB M6	6464777	3497933	254

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		/100 pc.	
HS M6x13 A2	5463399	1154990	386
HS M6x13 A2	5463399	1154990	399
HS M6x13 A2	5463399	1154990	577
HS M6x45 A4	5732549	1154970	521
HS M8x60 A4	5732570	1154975	521
		/m	
IKS 610 FS	6168439	6087116	321
IKS 620 FS	6335053	6087132	321
IKS 630 FS	6335114	6087140	321
IKS 640 FS	6335176	6087159	321
		/pc.	
IS 8 100 FT	6183197	6337112	208
IS 8 110 FT	6183258	6337120	208
IS 8 120 FT	5804550	6337139	208
IS 8 130 FT	5805038	6337147	208
IS 8 140 FT	5934936	6337155	208
IS 8 150 FT	6183494	6337163	208
IS 8 160 FT	5934752	6337171	208
IS 8 170 FT	6183616	6337198	208
IS 8 180 FT	5934875	6337201	208
IS 8 190 FT	5934219	6337228	208
IS 8 200 FT	6183791	6337236	208
IS 8 30 FT	6182770	6337031	208
IS 8 300 FT	6183852	6337244	208
IS 8 40 FT	6182831	6337058	208
IS 8 50 FT	6182893	6337066	208
IS 8 60 FT	6182954	6337074	208
IS 8 600 FT	6183913	6337252	208
IS 8 70 FT	6183012	6337082	208
IS 8 80 FT	6183074	6337090	208
IS 8 90 FT	6183135	6337104	208
IS 8 K 100 FT	6196814	6361218	207
IS 8 K 110 FT	6196876	6361234	207
IS 8 K 120 FT	6196937	6361250	207
IS 8 K 130 FT	6196999	6361277	207
IS 8 K 140 FT	6197057	6361293	207
IS 8 K 150 FT	6197118	6361315	207
IS 8 K 160 FT	6197170	6361331	207
IS 8 K 170 FT	6197231	6361366	207
IS 8 K 180 FT	6197293	6361382	207
IS 8 K 20 FT	6196333	6361021	207
IS 8 K 200 FT	6197415	6361420	207
IS 8 K 30 FT	6196395	6361056	207
IS 8 K 40 FT	6196456	6361072	207
IS 8 K 50 FT	6196517	6361099	207
IS 8 K 60 FT	6196579	6361110	207
IS 8 K 70 FT	6196630	6361137	207
IS 8 K 80 FT	6196692	6361153	207
IS 8 K 90 FT	6196753	6361188	207
IS 8 KS OR	5668077	6338519	207
IS 8 KS OR	5668077	6338519	469
K 11 262 FT	6359172	6015107	385
K 12 1818 FS	6208876	6437109	388
K 60 FT	6465972	6348408	240
K 70 FT	6466092	6348440	240
K12 1818 VA4301	6013036	6016421	388
K12 1818 VA4301	6013036	6016421	577
KA-ASY FT	6346875	6346820	192
KA-ASY FT	6346875	6346820	210
KA-AW 30 FT	6536832	6346715	205
KA-AW 80 FT	6536894	6346731	205
KAB GR FS	5677932	6220139	391
KAB GR FT	5807124	6220142	391
KAB GR VA 1.4301	5807155	6220145	578
KA-E 45 FT	6340156	6346758	206
KA-EA FT	5703938	6346763	205
KA-SY FT	6346813	6346804	191
KA-SY FT	6346813	6346804	209
KI 8 AOX FT	6190638	6347088	209
KI 8 FT	6190515	6347053	208
KI 8 NOK FT	6190577	6347061	208
KI 8 VLK FT	6190997	6348157	209
KI 8 VLP FT	6190874	6347843	209

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		/pc.	
KI 8 VQP FT	6190935	6348106	209
KI8 CPS5-1-300FT	5849766	6347026	210
KI8 CPS5-1-400FT	5808541	6347030	210
KI8 CPS5-1-500FT	5849773	6347028	210
KI8 CPS5-2-300FT	5849780	6347036	210
KI8 CPS5-2-400FT	5808558	6347032	210
KI8 CPS5-2-500FT	5849810	6347038	210
KL 20 FT	6003013	6003850	392
KL 30 FT	6003075	6003869	392
KL1 10 S FT	6194292	6354106	214
KL1 15 S FT	6194353	6354114	214
KL1 20 S FT	6194414	6354122	214
KLL 32 FT	5849841	6221061	425
KLL 32 VA4301	5849872	6221063	587
KLL 52 FT	5849889	6221071	425
KLL 52 VA4301	5849896	6221073	587
		/100 pc.	
KM M10 A4	5910985	6408930	577
KM M10 A4	5910985	6408930	627
KM M12 A4	5911043	6408940	577
KM M12 A4	5911043	6408940	627
KM M6 A2	6078554	6408966	240
KM M6 A2	6078554	6408966	386
KM M6 A2	6078554	6408966	400
KM M6 A2	6078554	6408966	577
KM M6 A2	6078554	6408966	627
KM M6 A4	6078615	6408970	577
KM M6 A4	6078615	6408970	627
KM M6 F	6078493	6408962	240
KM M6 G	6623952	6408958	240
KM M8 A4	5910961	6408920	577
KM M8 A4	5910961	6408920	627
KNG G	6936199	6050375	497
		/pc.	
KS 23 35 FT	6012312	6015174	400
KS 23 35 VA4301	6013098	6016529	581
KS GR LBL	5903468	6017714	391
KS GR LBL	5903468	6017714	400
KS GR LBL	5903468	6017714	582
KS GR OR	5848288	6017712	391
KS GR OR	5848288	6017712	400
KS GR OR	5848288	6017712	582
KS GR SGN	5903475	6017715	391
KS GR SGN	5903475	6017715	400
KS GR SGN	5903475	6017715	582
		/100 pc.	
KS GR VA4310	5694625	6062282	375
KS GR VA4310	5694625	6062282	380
KS GR VA4310	5694625	6062282	382
KS GR VA4310	5694625	6062282	399
KS GR VA4310	5694625	6062282	575
		/pc.	
KS GR ZGB	5848295	6017713	391
KS GR ZGB	5848295	6017713	400
KS GR ZGB	5848295	6017713	582
		/100 pc.	
KS KL VA4310	5694656	6062284	407
KS KL VA4310	5694656	6062284	413
KS KL VA4310	5694656	6062284	421
KS KL VA4310	5694656	6062284	441
KS KL VA4310	5694656	6062284	446
KS KL VA4310	5694656	6062284	453
KS KL VA4310	5694656	6062284	586
KS KL VA4310	5694656	6062284	591
KS KL VA4310	5694656	6062284	595
KS KR VA4310	5694618	6062280	261
KS KR VA4310	5694618	6062280	269
KS KR VA4310	5694618	6062280	310
KS KR VA4310	5694618	6062280	322
KS KR VA4310	5694618	6062280	546
		price/100	
KSB 2 PVC	6295395	6072909	256
KSB 2 PVC	6295395	6072909	298
KSB 2 PVC	6295395	6072909	349

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		price/100	
KSB 4 PVC	6295579	6072895	298
KSB 4 PVC	6295579	6072895	349
KSB 4 PVC	6295579	6072895	256
		/pc.	
KSR-910 PE	6065172	6066712	494
KSR-910 PE	6065172	6066712	531
KSR-910 PE	6065172	6066712	545
KSR-910 PE	6065172	6066712	644
KSR-915 PE	6065110	6066704	494
KSR-915 PE	6065110	6066704	531
KSR-915 PE	6065110	6066704	644
KSR-920 PE	5811114	6066696	531
KSR-920 PE	5811114	6066696	644
KSR-925 PE	5811084	6066688	532
KSR-925 PE	5811084	6066688	645
KSR-DR 920 PE	6346639	6087965	269
KSR-DR 920 PE	6346639	6087965	322
KTSMV 110 DD	5890249	6069112	290
KTSMV 110 FS	5890157	6069090	290
KTSMV 110 VA4301	5890317	6069134	557
KTSMV 115 DD	5890256	6069114	290
KTSMV 115 FS	5890164	6069092	290
KTSMV 120 DD	5890263	6069116	290
KTSMV 120 FS	5890195	6069094	290
KTSMV 120 VA4301	5890331	6069138	557
KTSMV 130 DD	5890270	6069118	290
KTSMV 130 FS	5890201	6069096	290
KTSMV 130 VA4301	5890348	6069140	557
KTSMV 140 DD	5890287	6069120	290
KTSMV 140 FS	5890218	6069098	290
KTSMV 140 VA4301	5890355	6069142	557
KTSMV 150 DD	5890294	6069122	290
KTSMV 150 FS	5890225	6069100	290
KTSMV 150 VA4301	5890362	6069144	557
KTSMV 160 DD	5890300	6069124	290
KTSMV 160 FS	5890232	6069102	290
KTSMV 160 VA4301	5890379	6069146	557
KTSMV 310 FS	5889441	6068900	261
KTSMV 320 FS	5889489	6068902	261
KTSMV 330 FS	5889496	6068904	261
KTSMV 610 DD	5890492	6068936	270
KTSMV 610 FS	5889502	6068914	270
KTSMV 610 VA4301	5889571	6068958	546
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LT 630 VS FS	6150977	6213731	415
LT 630 VS FT	6151332	6213839	415
LT 630 VS VA4301	6261130	7162049	586
LT 630 VS VA4571	5675532	7162103	586
LT 640 NS FS	6150311	6213545	414
LT 640 NS FT	6150670	6213650	414
LT 640 VS FS	6151035	6213758	415
LT 640 VS FT	6151394	6213847	415
LT 640 VS VA4301	6261192	7162057	586
LT 640 VS VA4571	5675549	7162104	586
LT 650 NS FS	6150373	6213553	414
LT 650 NS FT	6150731	6213669	414
LT 650 VS FS	6151097	6213766	415
LT 650 VS FT	6151455	6213855	415
LT 650 VS VA4301	6261253	7162073	586
LT 650 VS VA4571	5675587	7162105	586
LT 660 NS FS	6150434	6213561	414
LT 660 NS FT	6150793	6213677	414
LT 660 VS FS	6151158	6213774	415
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LT 660 VS VA4301	6261314	7162081	586
LT 660 VS VA4571	5675594	7162106	586
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LTK-K 10 G	6057559	6050360	497
LTK-K 25 G	6936137	6050370	497
LTR 3000 FS	6943876	6055810	500
LTR 6000 FS	6943937	6055812	500
LTR FSK RW	5163329	6055820	500
LTS 100 FS	5247135	6075024	493
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LTS B DD	5453451	6074901	495
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LVG 110 FS	5065678	6216545	420
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LVG 45 FS	5065197	6200832	406
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LVG 60 FS	5065555	6208840	412
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LVG 60 FT	5065562	6208843	462
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LVG 60 VA4301	5065579	6208846	632
LVG 60 VA4571	6666799	6208835	585
LVG 60 VA4571	6666799	6208835	632
LWVG 110 FS	5065692	6216587	420
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LWVG 60 VA4571	5022084	6208891	585
LWVG 60 VA4571	5022084	6208891	633
LWVM 200 FT	6947836	6083200	359
MAH 050 FS	6765553	6358500	180
MAH 075 FS	6874699	6358510	180
MAH 100 FS	6765676	6358527	180
MAH 150 FS	6765737	6358535	180
MAH 200 FS	6765799	6358543	180
MAH 35 100 FS	5364061	6358690	180
MAH 35 200 FS	5364078	6358692	180
MAH 35 300 FS	5364085	6358694	180
MAH 60 100 FS	6939374	6358705	180
MAH 60 100 FT	6947171	6358752	180
MAH 60 150 FS	6939435	6358709	180
MAH 60 150 FT	6947232	6358756	180
MAH 60 200 FS	6939497	6358713	180
MAH 60 200 FT	6947294	6358760	180
MAH 60 300 FS	6939558	6358717	180
MAH 60 300 FT	6947355	6358764	180
MAH 60 400 FS	6134823	6358720	180
MAH LTR FS	5268611	6358810	501
MAHU 200 FS	5435761	6358853	180
MAHU 200 FS	5435761	6358853	425
MAHU 200 FT	5435839	6358884	180
MAHU 200 FT	5435839	6358884	425
MAHU 300 FS	5435778	6358856	180
MAHU 300 FS	5435778	6358856	425
MAHU 300 FT	5435846	6358888	180
MAHU 300 FT	5435846	6358888	425
MAHU 400 FS	5435785	6358860	180
MAHU 400 FS	5435785	6358860	425
MAHU 400 FT	5435877	6358892	180
MAHU 400 FT	5435877	6358892	425
MAHU 500 FS	5435815	6358864	180
MAHU 500 FS	5435815	6358864	425
MAHU 500 FT	5435884	6358896	180
MAHU 500 FT	5435884	6358896	425
MAHU 600 FS	5435822	6358868	180
MAHU 600 FS	5435822	6358868	425
MAHU 600 FT	5435891	6358900	180
MAHU 600 FT	5435891	6358900	425
MAS 140 10 FT	6295753	6356311	534
MASD 90 FT	6471195	6356915	534
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MFR 220 FT	6947652	6083056	359
MFR 230 FT	6947713	6083060	359
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MKR 15 050 ALU	6381975	6045707	505
MKR 15 050 FS	6561971	6045952	504
MKR 15 050 FT	6053650	6045057	504
MKR 15 050VA4301	5706663	6045830	506
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MKR 15 075 ALU	6382033	6045715	505
MKR 15 075 FS	6562039	6045960	504
MKR 15 075 FT	6053711	6045073	504
MKR 15 075VA4301	5706670	6045832	506
MKR 15 075VA4571	5706755	6045852	506
MKR 15 100 ALU	6382095	6045723	505
MKR 15 100 FS	6562091	6045979	504
MKR 15 100 FT	6053773	6045103	504
MKR 15 100VA4301	5706687	6045834	506
MKR 15 100VA4571	5706762	6045854	506
MKR 15 125 FT	6053834	6045138	504
MKR 15 150 ALU	6382217	6045758	505
MKR 15 150 FS	6562213	6045995	504
MKR 15 150 FT	6053896	6045154	504
MKR 15 150VA4301	5706700	6045838	506
MKR 15 150VA4571	5706786	6045858	506
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MKR 15 200 FS	6562275	6046002	504
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MKR 15 300VA4301	5706731	6045844	506
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MKS 110 FS	6061815	6060102	338
MKS 110 VA4301	6392711	6060803	556
MKS 120 FS	6061877	6060196	338
MKS 120 VA4301	6392773	6060811	556
MKS 130 FS	6061938	6060307	338
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MKS 150 FS	6062058	6060412	338
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MKS 330 FT	6059416	6053300	309
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MKS 610 FS	6059652	6055109	315
MKS 610 FT	6060016	6055532	315
MKS 610 VA4301	6389292	6056016	542
MKS 615 FS	6387731	6055141	315
MKS 615 FT	6387915	6055559	315
MKS 620 FS	6059713	6055206	315
MKS 620 FT	6060078	6055575	315
MKS 620 VA4301	6389353	6056024	542
MKS 630 FS	6059775	6055303	315
MKS 630 FT	6060139	6055613	315
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MKS 640 FS	6059836	6055400	315
MKS 640 FT	6388035	6055664	315
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MKS 650 FS	6059898	6055508	315
MKS 650 FT	6388097	6055699	315
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MKS 660 FT	6388219	6055710	315
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MKS 850 FS	6060979	6057500	330
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MKSM 110 FS	5830627	6059156	286
MKSM 110 FT	5831037	6059173	286
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MKSM 115 FS	5830924	6059158	286
MKSM 115 FT	5831044	6059175	286
MKSM 120 FS	5830931	6059160	286
MKSM 120 FT	5831051	6059177	286
MKSM 120 VA4301	5831174	6059194	554
MKSM 130 FS	5830948	6059162	286
MKSM 130 FT	5831068	6059179	286
MKSM 130 VA4301	5831181	6059196	554
MKSM 140 FS	5830986	6059164	286
MKSM 140 FT	5831105	6059181	286
MKSM 140 VA4301	5831228	6059198	554
MKSM 150 FS	5830993	6059166	286
MKSM 150 FT	5831112	6059183	286
MKSM 150 VA4301	5831235	6059200	554
MKSM 160 FS	5831006	6059168	286
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MKSM 610 FS	5829553	6059000	265
MKSM 610 FT	5830023	6059018	265
MKSM 615 FS	5829935	6059002	265
MKSM 615 FT	5830030	6059020	265
MKSM 620 FS	5829942	6059004	265
MKSM 620 FT	5830047	6059022	265
MKSM 630 FS	5829959	6059006	265
MKSM 630 FT	5830085	6059025	265
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MKSM 660 FT	5830146	6059032	265
MKSM 810 FS	5830344	6059080	276
MKSM 810 FT	5830412	6059097	276
MKSM 820 FS	5830368	6059084	276
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MKSM 830 FS	5830375	6059086	276
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MKSMU 115 FS	5832010	6059384	288
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MKSMU 120 FS	5832027	6059386	288
MKSMU 120 FT	5832140	6059403	288
MKSMU 120 VA4301	5832263	6059420	555
MKSMU 130 FS	5832065	6059388	288
MKSMU 130 FT	5832188	6059405	288
MKSMU 130 VA4301	5832300	6059422	555
MKSMU 140 FS	5832072	6059390	288
MKSMU 140 FT	5832195	6059407	288
MKSMU 140 VA4301	5832317	6059424	555
MKSMU 150 FS	5832089	6059392	288
MKSMU 150 FT	5832201	6059409	288
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MKSMU 160 FS	5832119	6059394	288
MKSMU 160 FT	5832232	6059411	288
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MKSMU 610 FS	5831341	6059230	267
MKSMU 610 FT	5831419	6059248	267
MKSMU 610 VA4301	5831488	6059265	540
MKSMU 615 FS	5831358	6059232	267
MKSMU 615 FT	5831426	6059250	267
MKSMU 620 FS	5831365	6059234	267
MKSMU 620 FT	5831433	6059252	267
MKSMU 620 VA4301	5831501	6059269	540
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MKSMU 650 FT	5831464	6059258	267
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MKSMU 660 FT	5831471	6059260	267
MKSMU 660 VA4301	5831549	6059277	540
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MKSMU 810 FT	5831693	6059325	278
MKSMU 820 FS	5831648	6059312	278
MKSMU 820 FT	5831716	6059329	278
MKSMU 830 FS	5831655	6059314	278
MKSMU 830 FT	5831723	6059331	278
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MKSMU 850 FS	5831679	6059318	278
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MKSU 610 FT	6396795	6064302	318
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MKSU 615 FS	6394630	6063179	318
MKSU 615 FT	6026760	6064319	318
MKSU 620 FS	6063673	6063187	318
MKSU 620 FT	6396856	6064345	318
MKSU 620 VA4301	6064038	6063780	543
MKSU 630 FS	6063734	6063209	318
MKSU 630 FT	6396979	6064396	318
MKSU 630 VA4301	6064090	6063799	543
MKSU 640 FS	6063796	6063225	318
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MMS7.5X80	5519973	3498271	250
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MP 225 UNI FS	5012245	7084870	348
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MP UNI FS	6146895	7084773	296
MP UNI FS	6146895	7084773	347
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MPG 90 FT	6933310	6006487	390
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MS4022 SK	5785316	1124555	220
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MS4022P0192FT	6355518	6007201	467
MS4022P0292FT	6005895	6007228	360
MS4022P0292FT	6005895	6007228	467
MS4022P0392FT	6005956	6007236	360
MS4022P0392FT	6005956	6007236	467
MS4022P0492FT	6006014	6007244	467
MS4022P0592FT	6006076	6007252	467
MS4022P0692FT	6006137	6007260	467
MS4022P0792FT	6006199	6007279	467
MS4022P0892FT	6006250	6007287	467
MS4022P0992FT	6006311	6007295	467
MS4022P1092FT	6006373	6007309	467
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MS4022P2000A2	5050179	1121960	622
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MS4121 SK	5686217	1122902	222
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MS4121P0200FT	5697626	1122933	222
MS4121P0300FT	5697664	1122934	222
MS4121P0400FT	5697671	1122935	222
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MS4121P0600FT	5697725	1122937	222
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MS4141 EK	5894117	1122906	224
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MS4141 SK	5686200	1122900	224
MS4141 SK	5686200	1122900	623
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MS4141P0300FT	5485896	1122517	223
MS4141P0400FT	5486251	1122525	223
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MS4141P0700FT	5487036	1122568	223
MS4141P0800FT	5487098	1122576	223
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MS4141P1000A2	5698203	1122978	623
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MS4141P1000FS	5697503	1122908	223
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MS4141P3000FS	5686224	1122910	223
MS4141P3000FT	5487876	1122622	223
MS4141P6000FS	5686231	1122912	223
MS4141P6000FT	5488170	1122657	223
MS4141PP1000FS	5697978	1122481	224
MS4141PP1000FT	5697961	1122479	224
MS4141PP3000FS	5686248	1122914	224
MS4141PP3000FT	5050735	1122483	224
MS4141PP6000FS	5686255	1122916	224
MS4141PP6000FT	5050742	1122487	224
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MS4142P3000FT	5697794	1122944	222
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MS4182P3000FS	5698036	1122676	224
MS4182P3000FT	5697985	1122671	224
MS4182P6000A2	5938033	1122684	623
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MS5030 SK	5785323	1124563	221
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MS5030P0800FT	5882251	1121308	221
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MS5030P1000FT	5886211	1121448	221
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MS5030P1500FT	5514572	1121363	221
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MS5030P2000A2	5049272	1121480	622
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MS5030P6000A2	5049333	1121499	622
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MS5030RP0300FT	6191833	6349439	221
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MSL4141P1000FT	5698081	1122962	223
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MSL4141P3000A4	5698272	1122990	623
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MSL4141PP1000A2	5698333	1123014	623
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MSL4141PP1000FS	5697923	1123008	223
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MSL4141PP3000A2	5698340	1123016	623
MSL4141PP3000A4	5698401	1123023	623
MSL4141PP3000FS	5698319	1123010	223
MSL4141PP3000FT	5697909	1123003	223
MSL4141PP6000A2	5698388	1123018	623
MSL4141PP6000A4	5698432	1123025	623
MSL4141PP6000FS	5698326	1123012	223
MSL4141PP6000FT	5697916	1123005	223
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MW 45 SL10 FT	6013692	6017320	400
MW 45 SL10VA4301	6013753	6017339	581
MW 90 SL17 FT	6013814	6017347	400
MW 90 SL17VA4301	6012855	6016278	581
MW 90 SL23 FT	6013876	6017355	400
MW 90 SL23VA4301	6012916	6016308	581
MWA 12 11S FS	6636853	6424716	194
MWA 12 21S FS	6636976	6424732	194
MWA 12 31S FS	6637034	6424740	194
MWA 12 41S FS	6637096	6424759	194
MWAG 12 11 FS	6324736	6424600	196
MWAG 12 21 FS	6325030	6424608	196
MWAG 12 31 FS	6325337	6424616	196
MWAG 12 41 FS	6325634	6424624	196
MWAM 12 11 FS	5438526	6424550	195
MWAM 12 21 FS	5438533	6424552	195
MWAM 12 31 FS	5438540	6424554	195
MWAM 12 41 FS	5438571	6424556	195
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N 6-5/49 A4	6429585	3498399	245
N 6-5/49 A4	6429585	3498399	629
N 6-5-10/49	6411948	3498396	245
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RAA 110 FS	6819799	7002637	343
RAA 110 FT	6813490	7123116	343
RAA 120 FS	6819850	7002653	343
RAA 120 FT	6813551	7123213	343
RAA 130 FS	6819911	7002688	343
RAA 130 FT	6813674	7123310	343
RAA 140 FS	6213610	7002696	344
RAA 140 FT	6247097	7123396	344
RAA 150 FS	6213672	7002726	344
RAA 150 FT	6247158	7123507	344
RAA 155 FS	6213733	7002734	344
RAA 155 FT	6247219	7123558	344
RAA 305 FS	5069225	6040314	312
RAA 305 FT	6812899	7120060	312
RAA 310 FS	6453191	6040322	312
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RAA 320 FS	6449835	6040349	312
RAA 320 FT	6813018	7120214	312
RAA 330 FS	6453672	6040357	312
RAA 330 FT	6813070	7120311	312
RAA 605 FT	5703792	7121103	326
RAA 610 FS	6379392	6040403	326
RAA 610 FT	6813131	7121109	326
RAA 610 VA4301	6821235	7136120	552
RAA 610 VA4571	5675686	7136122	552
RAA 615 FS	6502639	6040411	326
RAA 615 FT	6027002	7121205	326
RAA 620 FS	6379453	6040438	326
RAA 620 FT	6813193	7121210	326
RAA 620 VA4301	6821297	7136133	552
RAA 620 VA4571	5866695	7136135	552
RAA 630 FS	6379514	6040446	326
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RAA 640 FT	6246373	7121407	326
RAA 650 FS	6212958	7002416	326
RAA 650 FT	6246434	7121504	326
RAA 660 FS	6213016	7002432	326
RAA 660 FT	6246496	7121601	326
RAA 810 FS	6819614	7002475	335
RAA 810 FT	6813315	7122109	335
RAA 820 FS	6819676	7002491	335
RAA 820 FT	6813377	7122213	335
RAA 830 FS	6819737	7002513	335
RAA 830 FT	6813438	7122310	335
RAA 840 FS	6213252	7002521	336
RAA 840 FT	6246731	7122403	336
RAA 850 FS	6213313	7002556	336
RAA 850 FT	6246793	7122500	336
RAA 860 FS	6213375	7002572	336
RAA 860 FT	6246854	7122608	336
RAAM 110 FS	5882039	6041920	293
RAAM 110 FT	5882091	6041940	293
RAAM 110 VA4301	5882176	6041960	559
RAAM 115 FS	5896067	6041921	293
RAAM 115 FT	5896074	6041941	293
RAAM 120 FS	5882046	6041922	293
RAAM 120 FT	5882107	6041942	293
RAAM 120 VA4301	5882183	6041962	559
RAAM 130 FS	5882053	6041924	293
RAAM 130 FT	5882114	6041944	293
RAAM 130 VA4301	5882190	6041964	559
RAAM 140 FS	5882060	6041926	293
RAAM 140 FT	5882121	6041946	293
RAAM 140 VA4301	5882206	6041966	559
RAAM 150 FS	5882077	6041928	293
RAAM 150 FT	5882152	6041948	293
RAAM 150 VA4301	5882213	6041968	559
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RAAM 610 FT	5878698	6041250	273
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RAAM 615 FS	5878575	6041232	273
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RAAM 615 VA4301	5878803	6041271	549
RAAM 620 FS	5878582	6041234	273
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RAAM 630 FS	5878629	6041236	273
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RAAM 640 FS	5878636	6041238	273
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RAAM 650 FS	5878643	6041240	273
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RAAM 660 FS	5878681	6041242	273
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RAAM 660 VA4571	5878988	6041303	549
RAAM 810 FS	5880851	6041570	283
RAAM 810 FT	5880912	6041590	283
RAAM 820 FS	5880868	6041572	283
RAAM 820 FT	5880929	6041592	283
RAAM 830 FS	5880875	6041574	283
RAAM 830 FT	5880967	6041594	283
RAAM 840 FS	5880882	6041576	283
RAAM 840 FT	5880974	6041596	283
RAAM 850 FS	5880899	6041578	283
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RB 45 120 FS	6818778	7000650	342
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RB 45 630 FS	6052394	6043798	325
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RB 45 860 FS	6210855	7000561	334
RB 45 860 FT	6225316	7067607	334
RB 90 110 FS	6819430	7001894	343
RB 90 110 FT	6814695	7127103	343
RB 90 120 FS	6819492	7001916	343
RB 90 120 FT	6814756	7127227	343
RB 90 130 FS	6819553	7001932	343
RB 90 130 FT	6814817	7127320	343
RB 90 140 FS	6212354	7001940	343
RB 90 140 FT	6248414	7127413	343
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RB 90 150 FT	6248476	7127499	343
RB 90 155 FS	6212477	7001975	343
RB 90 155 FT	6248537	7127545	343
RB 90 305 FT	6813858	7124070	312
RB 90 310 FS	6050239	6043119	312
RB 90 310 FT	6813919	7124120	312
RB 90 315 FS	6926657	6043123	312
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RB 90 320 FT	6813971	7124236	312
RB 90 330 FS	6050352	6043135	312
RB 90 330 FT	6814039	7124325	312
RB 90 605 FT	6380206	7125098	325
RB 90 610 FS	6050475	6043216	325
RB 90 610 FT	6814091	7125100	325
RB 90 615 FS	6050413	6043208	325
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RB 90 620 FS	6050536	6043224	325
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RB 90 630 FS	6050598	6043232	325
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RB 90 75 050 FS	5703983	7061146	506
RB 90 75 050 FT	6223879	7061145	506
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RB 90 810 FS	6818891	7001762	335
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RB 90 820 FS	6819317	7001789	335
RB 90 820 FT	6814572	7126216	335
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RB 90 830 FT	6814633	7126301	335
RB 90 840 FS	6211999	7001819	335
RB 90 840 FT	6248056	7126417	335
RB 90 850 FS	6212057	7001835	335
RB 90 850 FT	6248117	7126514	335
RB 90 860 FS	6212118	7001851	335
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RB45 610 VA4301	6820696	7133107	551
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RB45 620 VA4301	6820757	7133120	551
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RBM 45 110 FT	5880264	6041780	292
RBM 45 115 FS	5895961	6041751	292
RBM 45 115 FT	5895978	6041781	292
RBM 45 120 FS	5880189	6041752	292
RBM 45 120 FT	5880295	6041782	292
RBM 45 130 FS	5880196	6041754	292
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RBM 45 140 FS	5880202	6041756	292
RBM 45 140 FT	5880318	6041786	292
RBM 45 150 FS	5880240	6041758	292
RBM 45 150 FT	5880325	6041788	292
RBM 45 160 FS	5880257	6041760	292
RBM 45 160 FT	5880356	6041790	292
RBM 45 310 FS	5877615	6041000	262
RBM 45 320 FS	5881285	6041002	262
RBM 45 330 FS	5881315	6041004	262
RBM 45 610 FS	5881537	6041040	272
RBM 45 610 FT	5881605	6041060	272
RBM 45 610VA4301	5881674	6041080	548
RBM 45 615 FS	5881544	6041042	272
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RBM 45 620 FS	5881551	6041044	272
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RBM 45 630 FS	5881568	6041046	272
RBM 45 630 FT	5881636	6041066	272
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RBM 45 640 FS	5881575	6041048	272
RBM 45 640 FT	5881643	6041068	272
RBM 45 640VA4301	5881711	6041088	548
RBM 45 650 FS	5881582	6041050	272
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RBM 45 820 FS	5879589	6041412	282
RBM 45 820 FT	5879664	6041432	282
RBM 45 830 FS	5879596	6041414	282
RBM 45 830 FT	5879701	6041434	282
RBM 45 840 FS	5879602	6041416	282
RBM 45 840 FT	5879718	6041436	282
RBM 45 850 FS	5879633	6041418	282
RBM 45 850 FT	5879725	6041438	282
RBM 45 860 FS	5879640	6041420	282
RBM 45 860 FT	5879756	6041440	282
RBM 90 110 FS	5880547	6041840	293
RBM 90 110 FT	5880608	6041860	293
RBM 90 110VA4301	5880783	6041880	559
RBM 90 115 FS	5896029	6041841	293
RBM 90 115 FT	5896036	6041861	293
RBM 90 120 FS	5880554	6041842	293
RBM 90 120 FT	5880738	6041862	293
RBM 90 120VA4301	5880790	6041882	559
RBM 90 130 FS	5880561	6041844	293
RBM 90 130 FT	5880745	6041864	293
RBM 90 130VA4301	5880806	6041884	559
RBM 90 140 FS	5880578	6041846	293
RBM 90 140 FT	5880752	6041866	293
RBM 90 140VA4301	5880813	6041886	559
RBM 90 150 FS	5880585	6041848	293
RBM 90 150 FT	5880769	6041868	293
RBM 90 150VA4301	5880820	6041888	559
RBM 90 160 FS	5880592	6041850	293
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RBM 90 160VA4301	5880837	6041890	559
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RBM 90 330 FS	5881346	6041014	262
RBM 90 610 FS	5881810	6041130	273
RBM 90 610 FT	5881889	6041150	273
RBM 90 610VA4301	5881957	6041180	549
RBM 90 610VA4571	5878407	6041200	549
RBM 90 615 FS	5881827	6041132	273
RBM 90 615 FT	5881896	6041152	273
RBM 90 615VA4301	5878285	6041182	549
RBM 90 615VA4571	5878445	6041202	549
RBM 90 620 FS	5881834	6041134	273
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RBM 90 620VA4301	5878322	6041184	549
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RBM 90 630 FS	5881841	6041136	273
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RBM 90 640 FS	5881858	6041138	273
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RBM 90 650 FS	5881865	6041140	273
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RBM 90 650VA4301	5878384	6041190	549
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RBM 90 810 FT	5879978	6041510	282
RBM 90 820 FS	5879893	6041492	282
RBM 90 820 FT	5879985	6041512	282
RBM 90 830 FS	5879909	6041494	282
RBM 90 830 FT	5879992	6041514	282
RBM 90 840 FS	5879947	6041496	282
RBM 90 840 FT	5880004	6041516	282
RBM 90 850 FS	5879954	6041498	282
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RBM 90 860 FS	5879961	6041500	282
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RBMV 615 FT	5992226	6040502	272
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RBMV 620 FS	5992165	6040484	272
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RBMV 630 VA 4301	5992318	6040526	548
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RBMV 640 FS	5992189	6040488	272
RBMV 640 FT	5992257	6040508	272
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RBMV 650 VA 4301	5992332	6040530	548
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RBMV 660 FS	5992202	6040492	272
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RBMV 660 VA 4301	5992349	6040532	548
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RBMV 810 FT	5992530	6040600	282
RBMV 820 FS	5992479	6040584	282
RBMV 820 FT	5992554	6040604	282
RBMV 830 FS	5992493	6040586	282
RBMV 830 FT	5992561	6040606	282
RBMV 840 FS	5992509	6040588	282
RBMV 840 FT	5992578	6040608	282
RBMV 850 FS	5992516	6040590	282
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RBMV 860 FS	5992523	6040592	282
RBMV 860 FT	5992592	6040612	282
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RB-MW 12 M6	6464746	3497924	254
RB-MW 14 M6	6464753	3497927	254
RB-MW 18 M6	6464760	3497930	254
RB-MW 8 M6	6464722	3497918	254
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RBU 45 640VA4571	5866459	7133271	551
RBU 45 650VA4301	6253692	7133243	551
RBU 45 650VA4571	5866466	7133273	551
RBU 45 660VA4301	6253753	7133251	551
RBU 45 660VA4571	5866473	7133275	551
RBU 90 640VA4301	6254712	7134231	552
RBU 90 640VA4571	5866572	7134292	552
RBU 90 650VA4301	6254774	7134258	552
RBU 90 650VA4571	5866589	7134294	552
RBU 90 660VA4301	6254835	7134266	552
RBU 90 660VA4571	5866626	7134296	552
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RBV 110 F FS	5711810	7007350	346
RBV 110 F FT	5850922	7007468	294
RBV 110 F FT	5850922	7007468	346
RBV 110 S FS	5711711	7007310	294
RBV 110 S FS	5711711	7007310	345
RBV 110 S FT	5850908	7007398	294
RBV 110 S FT	5850908	7007398	345
RBV 115 F FS	5995616	7007352	294
RBV 115 F FT	5995630	7007353	294
RBV 115 S FS	5995579	7007312	294
RBV 115 S FT	5995593	7007313	294
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RBV 120 S FS	5711728	7007314	345
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RBV 120 S FT	5809197	7007400	345
RBV 120 S FT	5809197	7007400	294
RBV 130 F FS	5711834	7007358	346
RBV 130 F FS	5711834	7007358	294
RBV 130 F FT	5863649	7007359	346
RBV 130 F FT	5863649	7007359	294
RBV 130 S FS	5711759	7007318	345
RBV 130 S FS	5711759	7007318	294
RBV 130 S FT	5863618	7007319	345
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RBV 140 F FS	5711841	7007362	346
RBV 140 F FS	5711841	7007362	294
RBV 140 F FT	5809227	7007474	346
RBV 140 F FT	5809227	7007474	294
RBV 140 S FS	5711766	7007322	345
RBV 140 S FS	5711766	7007322	294
RBV 140 S FT	5809203	7007404	345
RBV 140 S FT	5809203	7007404	294
RBV 150 F FS	5711872	7007366	346
RBV 150 F FS	5711872	7007366	294
RBV 150 F FT	5863687	7007367	346
RBV 150 F FT	5863687	7007367	294
RBV 150 S FS	5711773	7007326	345
RBV 150 S FS	5711773	7007326	294
RBV 150 S FT	5863625	7007327	345
RBV 150 S FT	5863625	7007327	294
RBV 155 F FS	5711889	7007370	346
RBV 155 F FT	5863694	7007371	346
RBV 155 S FS	5711780	7007330	345
RBV 155 S FT	5863632	7007331	345
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RBV 160 F FT	5995647	7007374	294
RBV 160 S FS	5995586	7007333	294
RBV 160 S FT	5995609	7007334	294
RBV 305 F FS	5711469	7007200	313
RBV 305 F FT	5863168	7007202	313
RBV 305 S FS	5711414	7007170	312
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RBV 310 S FT	5863236	7007176	312
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RBV 330 S FT	5863274	7007188	312
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RBV 605 S FT	5863335	7007002	328
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RBV 610 F FS	5047445	7007055	328
RBV 610 F FT	5476818	7007056	274
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RBV 610 F VA4301	5688563	7007155	550
RBV 610 F VA4571	5886457	7006750	550
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RBV 610 S FT	5703730	7007006	274
RBV 610 S FT	5703730	7007006	328
RBV 610 S VA4301	5688556	7007105	550
RBV 610 S VA4571	5886570	7006720	550
RBV 615 F FS	5047452	7007059	274
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RBV 615 F FT	5811022	7007060	274
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RBV 615 F VA4301	5995654	7007156	550

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RBV 615 S VA4301	5995678	7007107	550
RBV 620 F FS	5047469	7007063	274
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RBV 620 F FT	5703785	7007064	274
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RBV 620 F VA4301	5886112	7007157	550
RBV 620 F VA4571	5886471	7006754	550
RBV 620 S FS	5047346	7007013	274
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RBV 620 S VA4301	5886181	7007109	550
RBV 620 S VA4571	5886587	7006724	550
RBV 630 F FS	5047490	7007067	274
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RBV 630 F VA4301	5886129	7007159	550
RBV 630 F VA4571	5886488	7006758	550
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RBV 660 F FS	5047520	7007079	274
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RBV 660 F FT	5863328	7007080	328
RBV 660 F FT	5863328	7007080	274
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RBV 660 F VA4571	5886549	7006770	550
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RBV 660 S FT	5863403	7007030	328
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RBV 820 F FS	5711643	7007274	284
RBV 820 F FT	5863427	7007275	336
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RBV 820 S FS	5711544	7007234	336
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RBV 820 S FT	5863519	7007235	336
RBV 820 S FT	5863519	7007235	284
RBV 830 F FS	5711650	7007278	336
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RBV 840 F FT	5863441	7007283	284
RBV 840 S FS	5711582	7007242	336
RBV 840 S FS	5711582	7007242	284
RBV 840 S FT	5863564	7007243	336
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RBV 850 S FS	5711599	7007246	336
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RBV 850 S FT	5863571	7007247	336
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RGBEV 660 FS	6216857	7005423	275
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RGBEV 660 FT	6228379	7075596	275
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RGBV 630 FS	6217991	7006365	329
RGBV 630 FT	6229512	7079303	275
RGBV 630 FT	6229512	7079303	329
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RGBV 640 FT	6229574	7079400	275
RGBV 640 FT	6229574	7079400	329
RGBV 640 VA4301	6258673	7138156	551
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RGBV 650 FT	6229635	7079508	329
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RGBV 650 VA4301	6258734	7138164	551
RGBV 660 FS	6218172	7006446	275
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RGBV 660 FT	6229697	7079605	329
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RGBV 810 FT	6229758	7080107	337
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RKM 640 VA4301	5927662	7027049	550
RKM 640 VA4571	5927730	7027069	550
RKM 650 FS	5927457	7027011	274
RKM 650 FT	5927549	7027031	274
RKM 650 VA4301	5927679	7027051	550
RKM 650 VA4571	5927747	7027071	550
RKM 660 FS	5927464	7027013	274
RKM 660 FT	5927587	7027033	274
RKM 660 VA4301	5927686	7027053	550
RKM 660 VA4571	5927754	7027073	550
RKM 810 FS	5927761	7027081	283
RKM 810 FT	5927839	7027101	283
RKM 820 FS	5927785	7027085	283
RKM 820 FT	5927853	7027105	283
RKM 830 FS	5927792	7027087	283
RKM 830 FT	5927860	7027107	283
RKM 840 FS	5927808	7027089	283
RKM 840 FT	5927877	7027109	283
RKM 850 FS	5927815	7027091	283
RKM 850 FT	5927884	7027111	283
RKM 860 FS	5927822	7027093	283
RKM 860 FT	5927891	7027113	283
		/m	
RKS 305 FS	6055937	6047408	308
RKS 605 FS	6388639	6055885	314
RKS 607 FS	6388691	6055893	314
RKSM 310 FS	5390848	6047417	260
RKSM 320 FS	5390855	6047433	260
RKSM 330 FS	5390862	6047460	260
RKSM 610 FS	5390879	6047611	264
RKSM 610 FT	5903895	6047612	264
RKSM 610 VA4301	5706083	6047613	538
RKSM 610 VA4571	5706113	6047614	538
RKSM 615 FS	5391197	6047630	264
RKSM 615 FT	5903901	6047631	264

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RKSM 615 VA4571	5706137	6047633	538
RKSM 620 FS	5391203	6047638	264
RKSM 620 FT	5903932	6047639	264
RKSM 620 VA4301	5706144	6047640	538
RKSM 620 VA4571	5706175	6047641	538
RKSM 630 FS	5391210	6047654	264
RKSM 630 FT	5903949	6047655	264
RKSM 630 VA4301	5706182	6047656	538
RKSM 630 VA4571	5706199	6047657	538
RKSM 640 FS	5391227	6047689	264
RKSM 640 FT	5903956	6047690	264
RKSM 640 VA4301	5706205	6047691	538
RKSM 640 VA4571	5706236	6047692	538
RKSM 650 FS	5391234	6047719	264
RKSM 650 VA4301	5706243	6047721	538
RKSM 650 VA4571	5706250	6047722	538
RKSM 660 FS	5391241	6047735	264
RKSM 660 VA4301	5706267	6047737	538
RKSM 660 VA4571	5706298	6047738	538
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RLVK 35 FS	6065356	6067085	261
RLVK 35 FS	6065356	6067085	310
RLVK 35 FT	6065714	6067301	310
RLVK 60 FS	6065417	6067093	270
RLVK 60 FS	6065417	6067093	323
RLVK 60 FT	6065899	6067603	270
RLVK 60 FT	6065899	6067603	323
RLVK 60 VA4301	6066018	6067654	546
RLVK 60 VA4571	6955459	6067675	546
RLVKV 60 FS	6456154	6067101	323
RLVL 100 FS	6446292	6067870	365
RLVL 110 FS	6065653	6067131	290
RLVL 110 FS	6065653	6067131	341
RLVL 110 FS	6065653	6067131	367
RLVL 110 FT	6066193	6067913	290
RLVL 110 FT	6066193	6067913	341
RLVL 110 VA4301	6400690	6067948	557
RLVL 85 FS	6065592	6067123	280
RLVL 85 FS	6065592	6067123	333
RLVL 85 FS	6065592	6067123	365
RLVL 85 FT	6066131	6067816	280
RLVL 85 FT	6066131	6067816	333
RT 110 FS	6820153	7003633	344
RT 110 FT	6812714	7119119	344
RT 120 FS	6820214	7003668	344
RT 120 FT	6812776	7119216	344
RT 130 FS	6820276	7003684	344
RT 130 FT	6812837	7119313	344
RT 140 FS	6214877	7003692	344
RT 140 FT	6245772	7119402	344
RT 150 FS	6214938	7003714	344
RT 150 FT	6245833	7119496	344
RT 155 FT	6245895	7119550	344
RT 610 FS	6051076	6043410	327
RT 610 FT	6812356	7117116	327
RT 615 FS	6051014	6043402	327
RT 615 FT	6901692	7117162	327
RT 620 FS	6051137	6043429	327
RT 620 FT	6812417	7117209	327
RT 630 FS	6051199	6043437	327
RT 630 FT	6812479	7117306	327
RT 640 FS	6214150	7003390	327
RT 640 FT	6245055	7117396	327
RT 650 FS	6214211	7003412	327
RT 650 FT	6245116	7117507	327
RT 660 FS	6214273	7003439	327
RT 660 FT	6245178	7117604	327
RTM 110 FS	5882336	6042010	293
RTM 110 FT	5882428	6042030	293
RTM 110 VA4301	5882541	6042050	559
RTM 115 FS	5896104	6042011	293
RTM 115 FT	5896135	6042032	293
RTM 120 FS	5882343	6042012	293
RTM 120 FT	5882466	6042034	293
RTM 120 VA4301	5882558	6042052	559
RTM 130 FS	5882350	6042014	293
RTM 130 FT	5882473	6042036	293
RTM 130 VA4301	5882565	6042054	559
RTM 140 FS	5882367	6042018	293

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RTM 140 VA4301	5882572	6042056	559
RTM 150 FS	5882404	6042020	293
RTM 150 FT	5882527	6042040	293
RTM 150 VA4301	5882589	6042060	559
RTM 160 FS	5882411	6042022	293
RTM 160 FT	5882534	6042042	293
RTM 160 VA4301	5882596	6042062	559
RTM 310 FS	5915386	6041030	263
RTM 320 FS	5915423	6041032	263
RTM 330 FS	5915713	6041034	263
RTM 610 FS	5878995	6041320	273
RTM 610 FT	5879121	6041340	273
RTM 610 VA4301	5879282	6041360	549
RTM 610 VA4571	5879411	6041380	549
RTM 615 FS	5879008	6041322	273
RTM 615 FT	5879169	6041342	273
RTM 620 FS	5879046	6041324	273
RTM 620 FT	5879176	6041344	273
RTM 620 VA4301	5879305	6041365	549
RTM 620 VA4571	5879466	6041384	549
RTM 630 FS	5879053	6041326	273
RTM 630 FT	5879183	6041348	273
RTM 630 VA4301	5879343	6041367	549
RTM 630 VA4571	5879473	6041386	549
RTM 640 FS	5879060	6041328	273
RTM 640 FT	5879220	6041350	273
RTM 640 VA4301	5879350	6041369	549
RTM 640 VA4571	5879480	6041388	549
RTM 650 FS	5879107	6041330	273
RTM 650 FT	5879237	6041352	273
RTM 650 VA4301	5879367	6041371	549
RTM 650 VA4571	5879527	6041390	549
RTM 660 FS	5879114	6041332	273
RTM 660 FT	5879244	6041354	273
RTM 660 VA4301	5879404	6041373	549
RTM 660 VA4571	5879534	6041392	549
RTM 810 FS	5881278	6041660	283
RTM 810 FT	5881414	6041680	283
RTM 820 FS	5881360	6041662	283
RTM 820 FT	5881421	6041682	283
RTM 830 FS	5881377	6041664	283
RTM 830 FT	5881438	6041684	283
RTM 840 FS	5881384	6041666	283
RTM 840 FT	5881445	6041686	283
RTM 850 FS	5881391	6041668	283
RTM 850 FT	5881452	6041688	283
RTM 860 FS	5881407	6041670	283
RTM 860 FT	5881469	6041690	283
RV 605 FS	6049325	6068146	322
RV 607 FS	6897070	6068150	500
RV 607 FS	6897070	6068150	322
RV 610 FS	6066797	6068154	322
RV 615 FS	6066858	6068162	322
RV 620 FS	6066919	6068170	322
RV 630 FS	6066971	6068189	322
RV 640 FS	6067039	6068197	322
RV 650 FS	6067091	6068200	322
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RWEB 1020 FS	6341818	7111804	365
RWEB 1030 FS	6341825	7111806	365
RWEB 1040 FS	6341832	7111808	365
RWEB 1050 FS	6341849	7111810	365
RWEB 1060 FS	6341856	7111812	365
RWEB 110 DD	6241033	7107455	291
RWEB 110 DD	6241033	7107455	342
RWEB 110 FS	6242771	7111096	291
RWEB 110 FS	6242771	7111096	342
RWEB 110 FS	6242771	7111096	367
RWEB 115 FS	5995500	7111201	291
RWEB 120 DD	6241095	7107471	342
RWEB 120 DD	6241095	7107471	291
RWEB 120 FS	6242894	7111207	342
RWEB 120 FS	6242894	7111207	367
RWEB 120 FS	6242894	7111207	291
RWEB 130 DD	6241156	7107501	342
RWEB 130 DD	6241156	7107501	291
RWEB 130 FS	6243013	7111304	342
RWEB 130 FS	6243013	7111304	367
RWEB 130 FS	6243013	7111304	291
RWEB 140 DD	6241217	7107536	342
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RWEB 150 DD	6241279	7107552	291
RWEB 150 FS	6243198	7111509	342
RWEB 150 FS	6243198	7111509	367
RWEB 150 FS	6243198	7111509	291
RWEB 155 DD	6241330	7107560	342
RWEB 155 FS	6243259	7111541	342
RWEB 160 DD	5995524	7107562	291
RWEB 160 FS	5995517	7111740	367
RWEB 160 FS	5995517	7111740	291
RWEB 305 FS	6241392	7108052	311
RWEB 310 FS	6241453	7108109	262
RWEB 310 FS	6241453	7108109	311
RWEB 320 FS	6241514	7108206	262
RWEB 320 FS	6241514	7108206	311
RWEB 330 FS	6241576	7108311	262
RWEB 330 FS	6241576	7108311	311
RWEB 605 DD	6988525	7107145	324
RWEB 610 DD	6982820	7106106	271
RWEB 610 DD	6982820	7106106	324
RWEB 610 FS	6241637	7109105	271
RWEB 610 FS	6241637	7109105	324
RWEB 610 VA4301	6242054	7109814	548
RWEB 615 DD	6308170	7106110	271
RWEB 615 DD	6308170	7106110	324
RWEB 615 FS	6241699	7109156	271
RWEB 615 FS	6241699	7109156	324
RWEB 615 VA4301	5981084	7109816	548
RWEB 620 DD	6982769	7106114	271
RWEB 620 DD	6982769	7106114	324
RWEB 620 FS	6241750	7109202	271
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RWEB 620 VA4301	6242115	7109830	548
RWEB 630 DD	6982707	7106118	271
RWEB 630 DD	6982707	7106118	324
RWEB 630 FS	6241811	7109296	271
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RWEB 630 VA4301	6242177	7109857	548
RWEB 640 DD	6024612	7106122	271
RWEB 640 DD	6024612	7106122	324
RWEB 640 FS	6241873	7109407	271
RWEB 640 FS	6241873	7109407	324
RWEB 640 VA4301	6242238	7109873	548
RWEB 650 DD	6024735	7106126	324
RWEB 650 DD	6024735	7106126	271
RWEB 650 FS	6241934	7109504	271
RWEB 650 FS	6241934	7109504	324
RWEB 650 VA4301	6242290	7109903	548
RWEB 660 DD	6034697	7106130	324
RWEB 660 DD	6034697	7106130	271
RWEB 660 FS	6241996	7109601	271
RWEB 660 FS	6241996	7109601	324
RWEB 660 VA4301	6242351	7109938	548
RWEB 810 DD	6240678	7107315	281
RWEB 810 DD	6240678	7107315	334
RWEB 810 FS	6242412	7110103	281
RWEB 810 FS	6242412	7110103	334
RWEB 820 DD	6240739	7107331	334
RWEB 820 DD	6240739	7107331	281
RWEB 820 FS	6242474	7110200	334
RWEB 820 FS	6242474	7110200	281
RWEB 830 DD	6240791	7107366	334
RWEB 830 DD	6240791	7107366	281
RWEB 830 FS	6242535	7110308	334
RWEB 830 FS	6242535	7110308	281
RWEB 840 DD	6240852	7107382	334
RWEB 840 DD	6240852	7107382	281
RWEB 840 FS	6242597	7110405	334
RWEB 840 FS	6242597	7110405	281
RWEB 850 DD	6240913	7107404	334
RWEB 850 DD	6240913	7107404	281
RWEB 850 FS	6242658	7110502	334
RWEB 850 FS	6242658	7110502	281
RWEB 860 DD	6240975	7107420	334
RWEB 860 DD	6240975	7107420	281
RWEB 860 FS	6242719	7110618	334
RWEB 860 FS	6242719	7110618	281
RWVL 35 FS	6065479	6067107	261
RWVL 35 FS	6065479	6067107	310
RWVL 35 FT	6065776	6067328	310
RWVL 60 FS	6065530	6067115	270

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RWVL 60 VA4571	6343157	6067664	547
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SA CPS 4 FT	5439448	6007496	471
		/pc.	
SA US5 FT SO	5848912	7194115	471
SA US7 FT SO	5858201	7194117	471
		/pair	
SAA CPS 4 FT	5439479	6007498	471
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SB BKS FS	6147816	6049252	369
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SF 140 11 FT	6295814	6356397	534
SH KAB 20 FS	6649990	6015425	389
SH KAB 25 FS	6650057	6015433	389
SH M10 A4	6952038	6015340	578
SH M10 FS	6608539	6015336	389
SH M10 FT	6951970	6015338	389
SHU M12 DD	5851868	6015324	179
SHU M12 FS	5851844	6015322	179
SHU M12 VA4301	5851875	6015326	605
SHU M12 VA4571	5851882	6015328	605
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SKH 110 OR	5668015	6222553	419
SKH 45 OR	5667995	6222502	406
SKH 60 OR	5668008	6222537	412
SKH 60 OR	5668008	6222537	462
SKH 60 OR	5668008	6222537	584
SKH 60 OR	5668008	6222537	632
SKHW 110 OR	5668022	6310398	439
SKHW 110 OR	5668022	6310398	589
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SKS 10X110 G	6348794	6418244	178
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SKS 10X120 F	5505631	3160793	188
SKS 10X120 F	5505631	3160793	237
SKS 10X25 F	5257233	3160734	237
SKS 10x30 A4	5618423	3160752	604
SKS 10X30 F	5257295	3160742	237
SKS 10X40 F	5257356	3160750	237
SKS 10X60 F	6202157	6408516	178
SKS 10X60 F	6202157	6408516	237
SKS 10x80 A4	6822133	6418248	608
SKS 10x80 A4	6822133	6418248	611
SKS 10X80 F	6437474	6418250	185
SKS 10X80 F	6437474	6418250	188
SKS 10X80 F	6437474	6418250	237
SKS 10x90 A2	5911166	6418255	608
SKS 10x90 A2	5911166	6418255	611
SKS 10x90 A4	5759041	6418256	608
SKS 10x90 A4	5759041	6418256	611
SKS 10X90 F	6518470	6418252	185
SKS 10X90 F	6518470	6418252	188
SKS 10X90 F	6518470	6418252	237
		/m	
SKS 110 FS	6062171	6061109	339
SKS 110 FT	6062539	6061605	339
SKS 120 FS	6062232	6061206	339
SKS 120 FT	6062591	6061621	339
		/100 pc.	
SKS 12x100 A2	6204618	6418368	238
SKS 12x100 A2	6204618	6418368	614
SKS 12X100 F	6204496	6418295	192
SKS 12X100 F	6204496	6418295	238
SKS 12x110 A2	6204670	6418376	238
SKS 12x110 A2	6204670	6418376	614
SKS 12X110 F	6204557	6418317	192
SKS 12X110 F	6204557	6418317	238
SKS 12X130 F	6479535	6408478	192
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SKS 12X60 F	5258254	3163156	237
SKS 12x80 A2	6204373	6418279	238
SKS 12x80 A2	6204373	6418279	614
SKS 12X80 F	6204434	6418287	192
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SKS 130 FS	6062294	6061303	339
SKS 130 FT	6062652	6061656	339
SKS 140 FS	6062355	6061400	339
SKS 140 FT	6062713	6061672	339
SKS 150 FS	6062416	6061508	339
SKS 150 FT	6062775	6061702	339
SKS 155 FS	6062478	6061559	339
SKS 155 FT	6062836	6061729	339
SKS 605 FT	6033997	6056632	316
SKS 610 FS	6060191	6056105	316
SKS 610 FT	6389957	6056636	316
SKS 610 VA4301	6120550	6056735	544
SKS 610 VA4571	6050048	6056750	544
SKS 615 FS	6389711	6056156	316
SKS 615 FT	6390014	6056644	316
SKS 620 FS	6060252	6056202	316
SKS 620 FT	6390076	6056652	316
SKS 620 VA4301	6120611	6056737	544
SKS 620 VA4571	6044887	6056755	544
SKS 630 FS	6060313	6056296	316
SKS 630 FT	6390137	6056679	316
SKS 630 VA4301	6120673	6056739	544
SKS 630 VA4571	6050161	6056757	544
SKS 640 FS	6060375	6056407	316
SKS 640 FT	6060559	6056695	316
SKS 640 VA4301	6120734	6056742	544
SKS 640 VA4571	6050284	6056759	544
SKS 650 FS	6060436	6056504	316
SKS 650 FT	6060610	6056717	316
SKS 650 VA4301	6120796	6056744	544
SKS 650 VA4571	6050406	6056761	544
SKS 660 FS	6060498	6056601	316
SKS 660 FT	6060672	6056733	316
SKS 660 VA4301	6120857	6056746	544
SKS 660 VA4571	6050529	6056763	544
		/100 pc.	
SKS 6x10 A2	5256090	3156605	426
SKS 6X12 F	5255857	3156494	237
SKS 6X20 F	5255970	3156516	237
SKS 6X30 F	5256038	3156524	237
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SKS 810 FS	6061099	6058108	331
SKS 810 FT	6061457	6058620	331
SKS 820 FS	6061150	6058205	331
SKS 820 FT	6061518	6058647	331
SKS 830 FS	6061211	6058302	331
SKS 830 FT	6061570	6058663	331
SKS 840 FS	6061273	6058396	331
SKS 840 FT	6061631	6058698	331
SKS 850 FS	6061334	6058507	331
SKS 850 FT	6061693	6058728	331
SKS 860 FS	6061396	6058604	331
SKS 860 FT	6061754	6058744	331
		/100 pc.	
SKS 8X16 F	5256571	3158624	237
SKS 8X20 F	5256632	3158632	237
SKS 8X30 F	5256694	3158640	237
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SKSM 110 FS	5829560	6059614	287
SKSM 110 FT	5829638	6059631	287
SKSM 115 FS	5829577	6059616	287
SKSM 115 FT	5829645	6059633	287
SKSM 120 FS	5829584	6059618	287
SKSM 120 FT	5829652	6059635	287
SKSM 130 FS	5829591	6059620	287
SKSM 130 FT	5829669	6059637	287
SKSM 140 FS	5829607	6059622	287
SKSM 140 FT	5829676	6059639	287
SKSM 150 FS	5829614	6059624	287
SKSM 150 FT	5829683	6059641	287
SKSM 160 FS	5829621	6059626	287
SKSM 160 FT	5829690	6059643	287
SKSM 610 FS	5832485	6059456	266
SKSM 610 FT	5832607	6059473	266
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SKSM 610 VA4571	5832843	6059507	539

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SKSM 620 FS	5832508	6059460	266
SKSM 620 FT	5832621	6059477	266
SKSM 620 VA4301	5832744	6059494	539
SKSM 620 VA4571	5832867	6059511	539
SKSM 630 FS	5832546	6059462	266
SKSM 630 FT	5832669	6059479	266
SKSM 630 VA4301	5832782	6059496	539
SKSM 630 VA4571	5832904	6059513	539
SKSM 640 FS	5832553	6059464	266
SKSM 640 FT	5832676	6059481	266
SKSM 640 VA4301	5832799	6059498	539
SKSM 640 VA4571	5832911	6059515	539
SKSM 650 FS	5832560	6059466	266
SKSM 650 FT	5832683	6059483	266
SKSM 650 VA4301	5832805	6059500	539
SKSM 650 VA4571	5832928	6059517	539
SKSM 660 FS	5832591	6059468	266
SKSM 660 FT	5832713	6059485	266
SKSM 660 VA4301	5832836	6059502	539
SKSM 660 VA4571	5832959	6059519	539
SKSM 810 FS	5832966	6059530	277
SKSM 810 FT	5833086	6059549	277
SKSM 820 FS	5832980	6059534	277
SKSM 820 FT	5833109	6059553	277
SKSM 830 FS	5833024	6059536	277
SKSM 830 FT	5833147	6059555	277
SKSM 840 FS	5833031	6059538	277
SKSM 840 FT	5833154	6059557	277
SKSM 850 FS	5833048	6059540	277
SKSM 850 FT	5833161	6059559	277
SKSM 860 FS	5833079	6059542	277
SKSM 860 FT	5833192	6059561	277
SKSMU 110 FS	5833925	6059836	289
SKSMU 110 FT	5834045	6059853	289
SKSMU 115 FS	5833932	6059838	289
SKSMU 115 FT	5834052	6059855	289
SKSMU 120 FS	5833949	6059840	289
SKSMU 120 FT	5834069	6059857	289
SKSMU 130 FS	5833987	6059842	289
SKSMU 130 FT	5834106	6059859	289
SKSMU 140 FS	5833994	6059844	289
SKSMU 140 FT	5834113	6059861	289
SKSMU 150 FS	5834007	6059846	289
SKSMU 150 FT	5834120	6059863	289
SKSMU 160 FS	5834038	6059848	289
SKSMU 160 FT	5834151	6059865	289
SKSMU 610 FS	5829843	6059688	268
SKSMU 610 FT	5829911	6059705	268
SKSMU 610 VA4301	5830689	6059722	541
SKSMU 615 FS	5829850	6059690	268
SKSMU 615 FT	5829928	6059707	268
SKSMU 620 FS	5829867	6059692	268
SKSMU 620 FT	5830634	6059709	268
SKSMU 620 VA4301	5830702	6059726	541
SKSMU 630 FS	5829874	6059694	268
SKSMU 630 FT	5830641	6059711	268
SKSMU 630 VA4301	5830740	6059728	541
SKSMU 640 FS	5829881	6059696	268
SKSMU 640 FT	5830658	6059713	268
SKSMU 640 VA4301	5830757	6059730	541
SKSMU 650 FS	5829898	6059698	268
SKSMU 650 FT	5830665	6059715	268
SKSMU 650 VA4301	5830764	6059732	541
SKSMU 660 FS	5829904	6059700	268
SKSMU 660 FT	5830672	6059717	268
SKSMU 660 VA4301	5830795	6059734	541
SKSMU 810 FS	5833444	6059762	279
SKSMU 810 FT	5833567	6059779	279
SKSMU 820 FS	5833468	6059766	279
SKSMU 820 FT	5833581	6059783	279
SKSMU 830 FS	5833505	6059768	279
SKSMU 830 FT	5833628	6059785	279
SKSMU 840 FS	5833512	6059770	279
SKSMU 840 FT	5833635	6059787	279
SKSMU 850 FS	5833529	6059772	279
SKSMU 850 FT	5833642	6059789	279
SKSMU 860 FS	5833550	6059774	279
SKSMU 860 FT	5833673	6059791	279
SKSU 110 FS	6395231	6063403	340
SKSU 110 FT	6397754	6064795	340
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SKSU 140 FS	6395415	6063470	340
SKSU 140 FT	5069690	6064922	340
SKSU 150 FS	6395477	6063497	340
SKSU 150 FT	6398232	6064965	340
SKSU 155 FS	5038702	6063500	340
SKSU 155 FT	6102433	6064973	340
SKSU 610 FS	5060369	6063234	319
SKSU 610 FT	5069836	6064307	319
SKSU 620 FS	5060390	6063236	319
SKSU 620 FT	6050888	6064353	319
SKSU 630 FS	5060406	6063238	319
SKSU 630 FT	5069843	6064409	319
SKSU 640 FS	5060413	6063950	319
SKSU 640 FT	5069874	6064435	319
SKSU 650 FS	6063857	6063241	319
SKSU 650 FT	6308958	6064515	319
SKSU 660 FS	6063918	6063276	319
SKSU 660 FT	6397273	6064523	319
SL 42 075 FT	6506897	7097115	508
SL 42 100 FT	6506958	7097123	508
SL 42 150 FT	6507016	7097131	508
SL 42 200 FT	6507078	7097158	508
SL 42 250 FT	6507139	7097166	508
SL 42 300 FT	6979646	7097174	508
SL 62 110 FT	6980246	7097409	509
SL 62 160 FT	6980307	7097417	509
SL 62 210 FT	6980369	7097425	509
SL 62 310 FT	6980420	7097433	509
SL 62 410 FT	6980482	7097441	509
SL 62 510 FT	6508099	7097468	509
SL 62 610 FT	6508150	7097476	509
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SLBI 90 112VS FT	6092819	6217786	423
SLBI 90 113VS FT	6092833	6217787	423
SLBI 90 114VS FT	6092840	6217788	423
SLBI 90 115VS FT	6092857	6217789	423
SLBI 90 116VS FT	6092864	6217790	423
SLBZ 90 100 FT	5807759	7099000	515
SLBZ 90 1000 FT	5807841	7099018	515
SLBZ 90 1200 FT	5807889	7099020	515
SLBZ 90 150 FT	6046430	7099001	515
SLBZ 90 200 FT	5807766	7099002	515
SLBZ 90 300 FT	5784807	7099004	515
SLBZ 90 400 FT	5807773	7099006	515
SLBZ 90 500 FT	5784838	7099008	515
SLBZ 90 600 FT	5807780	7099010	515
SLBZ 90 700 FT	5807810	7099012	515
SLBZ 90 800 FT	5807827	7099014	515
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SLCS 1120 3 FT	6431854	6207302	419
SLCS 1130 3 FT	6431861	6207304	419
SLCS 1140 3 FT	6431878	6207306	419
SLCS 1150 3 FT	6431892	6207310	419
SLCS 1160 3 FT	6431908	6207312	419
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SLDV 110 FT	5895015	6091100	420
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SLG 420 NS 3 FS	5063575	6200540	405
SLG 420 NS 6 FS	5063780	6200623	405
SLG 420 NS 6 FT	5063889	6200646	405
SLG 430 NS 3 FS	5063582	6200543	405
SLG 430 NS 6 FS	5063827	6200626	405
SLG 430 NS 6 FT	5063896	6200649	405
SLG 440 NS 3 FS	5063599	6200546	405
SLG 440 NS 6 FS	5063834	6200629	405
SLG 440 NS 6 FT	5063902	6200652	405
SLG 450 NS 3 FS	5063605	6200549	405
SLG 450 NS 6 FS	5063841	6200632	405
SLG 450 NS 6 FT	5063933	6200655	405
SLG 460 NS 3 FS	5063636	6200552	405
SLG 460 NS 6 FS	5063872	6200635	405
SLG 460 NS 6 FT	5063940	6200658	405
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SLGBV 114 VS FT	6093199	6219084	424
SLGBV 115 VS FT	6093212	6219085	424
SLGBV 116 VS FT	6093229	6219086	424
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SLH 42 FT	6582136	7103611	231
SLH 42 FT	6582136	7103611	520
SLH 62 FT	6468911	7103643	231
SLH 62 FT	6468911	7103643	520
SLL 620 CPS 4 FS	5433965	6010620	460
SLL 620 CPS 4 FT	5434047	6010630	460
SLL 630 CPS 4 FS	5433972	6010622	460
SLL 630 CPS 4 FT	5434085	6010632	460
SLL 640 CPS 4 FS	5433989	6010624	460
SLL 640 CPS 4 FT	5434092	6010634	460
SLL 650 CPS 4 FS	5434023	6010626	460
SLL 650 CPS 4 FT	5434108	6010636	460
SLL 660 CPS 4 FS	5434030	6010628	460
SLL 660 CPS 4 FT	5434146	6010638	460
SLM 50 C40 10 FT	6168613	6010547	464
SLM 50 C40 11 FT	6168552	6010555	464
SLM 50 C40 12 FT	6168491	6010563	464
SLM 50 C40 2 FT	6146116	6010466	464
SLM 50 C40 3 FT	6146178	6010474	464
SLM 50 C40 4 FT	6146239	6010482	464
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SLM 50 C40 6 FT	6168859	6010504	464
SLM 50 C40 7 FT	6168798	6010512	464
SLM 50 C40 8 FT	6168736	6010520	464
SLM 50 C40 9 FT	6168675	6010539	464
SLS 80 C40 10 FT	6011599	6013465	468
SLS 80 C40 11 FT	6011650	6013473	468
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SLS 80 W40 10 FT	6012138	6013902	469
SLS 80 W40 4 FT	6011773	6013848	469
SLS 80 W40 5 FT	6011834	6013856	469
SLS 80 W40 6 FT	6011896	6013864	469
SLS 80 W40 7 FT	6011957	6013872	469
SLS 80 W40 8 FT	6012015	6013880	469
SLS 80 W40 9 FT	6012077	6013899	469
SLSP 62 300 FT	6420131	7102771	509
SLSP 62 300 SG	6303731	7102674	509
		/pc.	
SLT 112 VS FT	6093021	6219182	423
SLT 113 VS FT	6093045	6219183	423
SLT 114 VS FT	6093052	6219184	423
SLT 115 VS FT	6093069	6219185	423
SLT 116 VS FT	6093090	6219186	423
SLV 42 FT	5980469	7103540	510
SLV 62 FT	5980483	7103548	510
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SLZ 100 FT	5708032	7098132	513
SLZ 100 SG	5708148	7098162	514
SLZ 1000 FT	5708124	7098150	513
SLZ 1000 SG	5708230	7098180	514
SLZ 1200 FT	5708131	7098152	513
SLZ 1200 SG	5708247	7098182	514
SLZ 200 FT	5708049	7098134	513
SLZ 200 SG	5708155	7098164	514
SLZ 300 FT	5708056	7098136	513
SLZ 300 SG	5708162	7098166	514
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SLZ 900 FT	5708117	7098148	513
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SLZ L 100 FT	5707646	7098002	511
SLZ L 100 SG	5707745	7098032	512
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SLZ L 300 FT	5707707	7098008	511
SLZ L 300 SG	5707776	7098038	512
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SLZ L 500 FT	5707721	7098012	511
SLZ L 500 SG	5707790	7098042	512
SLZ L 600 FT	5707738	7098014	511
SLZ L 600 SG	5707806	7098044	512
		/100 pc.	
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SSE BKR 200 FS	6146932	6049263	369
SSE BKR 300 FS	6146949	6049265	369
SSE BKR 400 FS	6146970	6049267	369
SSE BKR 500 FS	6146987	6049269	369
SSE BKR 600 FS	6146994	6049271	369
SSLB 100 DD	6095247	7070306	296
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SSLB 100 FS	6079971	7070205	296
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SSLB 100 VA4301	6095728	7070353	560
SSLB 100 VA4571	5021520	7070390	560
SSLB 150 DD	6095308	7070310	296
SSLB 150 DD	6095308	7070310	347
SSLB 150 FS	6094820	7070209	296
SSLB 150 FS	6094820	7070209	347
SSLB 200 DD	6095360	7070314	296
SSLB 200 DD	6095360	7070314	347
SSLB 200 DD	6095360	7070314	360
SSLB 200 DD	6095360	7070314	433
SSLB 200 DD	6095360	7070314	436
SSLB 200 FS	6094882	7070213	296
SSLB 200 FS	6094882	7070213	347
SSLB 200 FS	6094882	7070213	433
SSLB 200 FS	6094882	7070213	436
SSLB 200 VA4301	6095780	7070361	596
SSLB 200 VA4301	6095780	7070361	599
SSLB 200 VA4301	6095780	7070361	560
SSLB 200 VA4571	5021582	7070392	560
SSLB 300 DD	6095421	7070318	296
SSLB 300 DD	6095421	7070318	347
SSLB 300 DD	6095421	7070318	360
SSLB 300 DD	6095421	7070318	433
SSLB 300 DD	6095421	7070318	436
SSLB 300 FS	6094943	7070217	296
SSLB 300 FS	6094943	7070217	347
SSLB 300 FS	6094943	7070217	433
SSLB 300 FS	6094943	7070217	436
SSLB 300 VA4301	6095841	7070365	596
SSLB 300 VA4301	6095841	7070365	599
SSLB 300 VA4301	6095841	7070365	560
SSLB 300 VA4571	5021605	7070394	560
SSLB 400 DD	6095483	7070322	296
SSLB 400 DD	6095483	7070322	347
SSLB 400 DD	6095483	7070322	360
SSLB 400 DD	6095483	7070322	433
SSLB 400 DD	6095483	7070322	436
SSLB 400 FS	6095001	7070221	296
SSLB 400 FS	6095001	7070221	347
SSLB 400 FS	6095001	7070221	433
SSLB 400 FS	6095001	7070221	436
SSLB 400 VA4301	6095902	7070369	596
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SSLB 500 DD	6095544	7070326	433
SSLB 500 DD	6095544	7070326	436
SSLB 500 FS	6095063	7070225	296
SSLB 500 FS	6095063	7070225	347
SSLB 500 FS	6095063	7070225	433
SSLB 500 FS	6095063	7070225	436
SSLB 500 VA4301	6095964	7070373	596
SSLB 500 VA4301	6095964	7070373	599
SSLB 500 VA4301	6095964	7070373	560
SSLB 500 VA4571	5021711	7070398	560
SSLB 550 DD	6095605	7070330	347
SSLB 550 FS	6095124	7070229	347
SSLB 600 DD	6095667	7070334	296
SSLB 600 DD	6095667	7070334	347
SSLB 600 DD	6095667	7070334	433
SSLB 600 DD	6095667	7070334	436
SSLB 600 FS	6095186	7070233	296
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SSLB 600 FS	6095186	7070233	433
SSLB 600 FS	6095186	7070233	436
SSLB 600 VA4301	6096022	7070381	596
SSLB 600 VA4301	6096022	7070381	599
SSLB 600 VA4301	6096022	7070381	560
SSLB 600 VA4571	5021827	7070400	560
		/100 pc.	
SSP 20-40 M6 FT	6342167	1486238	216
SSP 20-40 M6 V2A	6342174	1486242	620
SSP 20-40 M6 V4A	6342181	1486244	621
SSP 20-40 M8 FT	6342204	1486288	216
SSP 20-40 M8 V2A	6342211	1486292	621
SSP 20-40 M8 V4A	6342228	1486294	621
SSP 6-21 M6 FT	6342112	1486232	215
SSP 6-21 M6 V2A	6342136	1486234	619
SSP 6-21 M6 V4A	6342150	1486236	620
SSP 6-21 M8 FT	6342129	1486282	216
SSP 6-21 M8 V2A	6342143	1486284	619
SSP 6-21 M8 V4A	6342198	1486286	620
		/pc.	
SSV FT	6064755	6066046	535
SSV VA4301	6064816	6066054	646
STA BKS10 FT	6147663	6044561	369
STA BKS20 FT	6147694	6044563	369
STA BKS30 FT	6147700	6044565	369
STA BKS40 FT	6147717	6044567	369
STA BKS50 FT	6147724	6044569	369
STA BKS60 FT	6147755	6044571	369
STP Z 1010 FS	6341726	6044581	370
STP Z 1020 FS	6341733	6044583	370
STP Z 1030 FS	6341740	6044585	370
		/m	
STP Z 10300 FS	6341795	6044596	370
		/pc.	
STP Z 1040 FS	6341757	6044587	370
STP Z 1050 FS	6341764	6044589	370
STP Z 1060 FS	6341771	6044591	370
SV DD	6084432	6066941	535
SV MKR FS	5706847	6066242	507
SV MKR FT	6064939	6066240	507
SV VA4301	6065233	6066933	646
		/100 pc.	
SVE 41 FT	5939214	1123121	228
SVE 41 G	5939221	1123124	228
SZ-B 18/0x142	6429486	3498752	248
		/pc.	
T D 200 FT	6446414	6239773	429
T D 300 FT	6446476	6239781	429
T D 400 FT	6446537	6239803	429
T D 500 FT	6446599	6239811	429
T D 600 FT	6446650	6239838	429
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TGK 30 42 FT	6014415	6018963	210
TGK 30 42 FT	6014415	6018963	469
		/pair	
TKH-L-25 FT	6579259	6355812	214
TKH-S-30 FT	6114610	6355804	215
		/pc.	
TKM Chock 1 FS	6429875	1480850	215
TKM Chock 2 FS	6429882	1480852	215
TKM Chock 2 V4A	6429905	1480882	215
TKM Chock 3 FS	6429899	1480854	215
		/pair	
TKS-L-25 FT	6579075	6355808	214
TKS-S-30 FT	6114498	6355800	215
		/pc.	
TPB 100 FS	5523666	6357506	178
TPB 100 FS	5523666	6357506	497
TPB 100 VA4301	5523673	6357516	604
TPB R FS	5523680	6357536	178
TPB R FS	5523680	6357536	497
TPB R VA4301	5523727	6357538	604
TPD 145 FS	6198610	6363806	172
TPD 145 FT	5076858	6363861	172
TPD 245 FS	6198672	6363814	172
TPD 245 FT	5076865	6363865	172
TPD 345 FS	6198733	6363822	172
TPD 345 FT	5076896	6363869	172
TPD 445 FS	5460381	6363826	172
TPD 545 FS	5460428	6363829	172
TPDG 145 FS	6511754	6365906	173
TPDG 145 FT	5076902	6365977	173
TPDG 145 VA4301	5617747	6365989	600
TPDG 195 FS	6042609	6365914	173
TPDG 195 VA4301	5617754	6365991	600
TPDG 245 FS	6511815	6365922	173
TPDG 245 FT	5076919	6365981	173
TPDG 245 VA4301	5617761	6365993	600
TPDG 345 FS	6984329	6365949	173
TPDG 345 FT	5076926	6365985	173
TPDG 345 VA4301	5617778	6365995	600
TPS 3000 FS	6282739	6364802	177
TPS 445 FS	6199334	6364322	174
TPS 445 FT	6473717	6364403	174
TPS 445 VA4301	5617730	6364848	601
TPS 545 FS	6199396	6364349	174
TPS 545 FT	6473779	6364500	174
TPS 545 VA4301	5617860	6364850	601
TPS 645 FS	6199457	6364365	174
TPS 645 FT	6473830	6364608	174
TPS 645 VA4301	5617877	6364852	601
TPS KS OR	5668084	6364625	177
TPS KS OR	5668084	6364625	603
TPSA 145 FS	6198979	6364101	175
TPSA 145 FT	6473892	6364659	175
TPSA 145 VA4301	5733157	6364871	602
TPSA 195 FT	6555673	6364683	175
TPSA 245 FS	6199099	6364209	175
TPSA 245 FT	6473953	6364667	175
TPSA 245 VA4301	5733164	6364876	602
TPSA 345 FS	6199273	6364306	175
TPSA 345 FT	6474011	6364675	175
TPSA 345 VA4301	5733171	6364881	602
TPSAG 145 FS	6627554	6366015	176
TPSAG 145 FT	5076957	6366131	176
TPSAG 145 VA4301	5617785	6366145	603
TPSAG 195 FS	6627615	6366023	176
TPSAG 195 FT	5076964	6366135	176
TPSAG 195 VA4301	5617792	6366146	603
TPSAG 245 FS	6545353	6366031	176
TPSAG 245 FT	5076971	6366139	176
TPSAG 245 VA4301	5617808	6366148	603
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TPSG 3000 FS	6079032	6366090	177
TPSG 3000 FT	5424925	6366093	177
TPSG 300L FS	5381723	6366542	176
TPSG 400L FS	5381754	6366545	176
TPSG 500L FS	5381761	6366548	176
TPSG 600L FS	5381778	6366551	176
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TrayFix-10-L	6095452	5403101	298
TrayFix-10-L	6095452	5403101	349
TrayFix-10-L	6095452	5403101	392
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TrayFix-10-S	6095469	5403102	349
TrayFix-10-S	6095469	5403102	392
TrayFix-16-L	6098613	5403098	298
TrayFix-16-L	6098613	5403098	349
TrayFix-16-L	6098613	5403098	393
TrayFix-16-S	6098620	5403099	298
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TSG 110 DD	5694700	6062335	290
TSG 110 DD	5694700	6062335	341
TSG 110 DD	5694700	6062335	437
TSG 110 DD	5694700	6062335	446
TSG 110 DD	5694700	6062335	452
TSG 110 FS	5694588	6062122	290
TSG 110 FS	5694588	6062122	341
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TSG 110 FS	5694588	6062122	446
TSG 110 FS	5694588	6062122	452
TSG 110 VA4301	5778431	6062255	557
TSG 110 VA4301	5778431	6062255	590
TSG 110 VA4301	5778431	6062255	595
TSG 135 DD	5694717	6062338	437
TSG 135 DD	5694717	6062338	446
TSG 135 DD	5694717	6062338	452
TSG 135 FS	5694595	6062132	437
TSG 135 FS	5694595	6062132	446
TSG 135 FS	5694595	6062132	452
TSG 30 DD	5694663	6062314	309
TSG 30 DD	5694663	6062314	374
TSG 30 DD	5694663	6062314	398
TSG 30 DD	5694663	6062314	407
TSG 30 FS	5694496	6062050	260
TSG 30 FS	5694496	6062050	309
TSG 30 FS	5694496	6062050	374
TSG 30 FS	5694496	6062050	398
TSG 30 FS	5694496	6062050	407
TSG 30 VA4301	5694502	6062052	574
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TSG 45 DD	5694670	6062321	321
TSG 45 DD	5694670	6062321	379
TSG 45 DD	5694670	6062321	413
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TSG 85 FS	5694571	6062114	280
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TSGV VA4310	5694724	6067970	399
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TSGV VA4310	5694724	6067970	421
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US 5 KS OR	5668046	6338462	609
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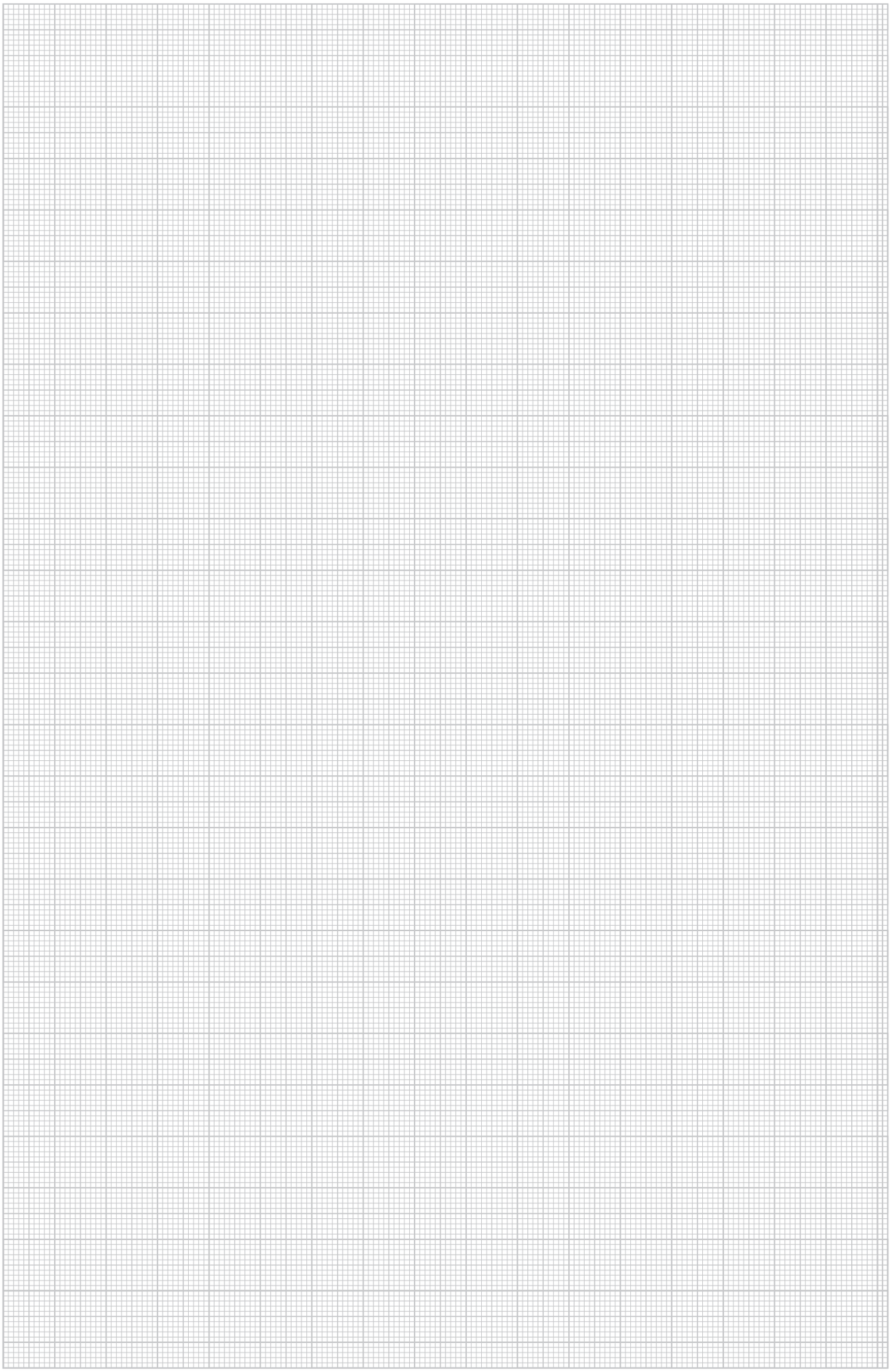
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WKLG 1160 VA4571	5403142	6311233	589
WKLG 1620 FS	6169092	6227023	444
WKLG 1620 FT	6169399	6227120	444
WKLG 1630 FS	6169153	6227031	444
WKLG 1630 FT	6169450	6227139	444
WKLG 1640 FS	6169214	6227058	444
WKLG 1640 FT	6169511	6227147	444
WKLG 1650 FS	6169276	6227066	444
WKLG 1650 FT	6169573	6227155	444
WKLG 1660 FS	6169337	6227074	444
WKLG 1660 FT	6169634	6227163	444
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WKLK 2020 FT	6176892	6233724	454
WKLK 2030 FT	6176953	6233732	454
WKLK 2040 FT	6177011	6233740	454
WKLK 2050 FT	6177073	6233759	454
WKLK 2060 FT	6177134	6233767	454
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WKSG 120 FS	6351435	6098111	432
WKSG 120 FT	6351732	6098141	432
WKSG 120 VA 4301	5683506	6098161	594
WKSG 130 FS	6351497	6098115	432
WKSG 130 FT	6370030	6098145	432
WKSG 130 VA 4301	5683513	6098165	594
WKSG 140 FS	6351558	6098119	432
WKSG 140 FT	6034277	6098149	432
WKSG 140 VA 4301	5683520	6098169	594
WKSG 150 FS	6351619	6098123	432
WKSG 150 FT	6034031	6098153	432
WKSG 150 VA 4301	5683568	6098173	594
WKSG 160 FS	6351671	6098127	432
WKSG 160 FT	6033973	6098157	432
WKSG 160 VA 4301	5683575	6098177	594
WKSG 162 FS	6334810	6098501	435
WKSG 162 FT	6810734	6098550	435
WKSG 162 VA 4301	5683582	6098571	597
WKSG 163 FS	6812059	6098505	435
WKSG 163 FT	6766390	6098554	435
WKSG 163 VA 4301	5683599	6098573	597
WKSG 164 FS	6808939	6098509	435
WKSG 164 FT	6766451	6098558	435
WKSG 164 VA 4301	5683605	6098575	597
WKSG 165 FS	6808397	6098513	435
WKSG 165 FT	6656059	6098562	435
WKSG 165 VA 4301	5683612	6098577	597
WKSG 166 FS	6808335	6098517	435
WKSG 166 FT	6656295	6098566	435
WKSG 166 VA 4301	5683629	6098579	597
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WLB 90 112 FT	6302178	6312438	441
WLB 90 112VA4571	5910251	6312550	591
WLB 90 113 FS	6301935	6312349	441
WLB 90 113 FT	6302239	6312446	441
WLB 90 113VA4571	5910268	6312552	591
WLB 90 114 FS	6301997	6312357	441
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WLB 90 115 FS	6302055	6312365	441
WLB 90 115 FT	6302352	6312462	441
WLB 90 115VA4571	5910329	6312556	591
WLB 90 116 FS	6302116	6312373	441
WLB 90 116 FT	6302413	6312470	441
WLB 90 116VA4571	5910350	6312558	591
WLB 90 162 FS	6171798	6229336	446
WLB 90 162 FT	6172092	6229425	446
WLB 90 163 FS	6171859	6229344	446
WLB 90 163 FT	6172153	6229433	446
WLB 90 164 FS	6171910	6229352	446
WLB 90 164 FT	6172214	6229441	446
WLB 90 165 FS	6171972	6229360	446
WLB 90 165 FT	6172276	6229468	446
WLB 90 166 FS	6172030	6229379	446
WLB 90 166 FT	6172337	6229476	446
WLB 90 2020 FT	6176298	6233422	453
WLB 90 2030 FT	6176359	6233430	453
WLB 90 2040 FT	6176410	6233449	453
WLB 90 2050 FT	6176472	6233457	453
WLB 90 2060 FT	6176533	6233465	453
WLBF 90 162 FT	6174492	6230725	447
WLBF 90 163 FT	6174553	6230733	447
WLBF 90 164 FT	6174614	6230741	447
WLBF 90 165 FT	6174676	6230768	447
WLBF 90 166 FT	6174737	6230776	447
WLBS 90 162 FT	6173891	6230423	447
WLBS 90 163 FT	6173952	6230431	447
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WLBS 90 165 FT	6174072	6230466	447
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WLK 1120 FT	6303311	6312934	442
WLK 1130 FT	6303373	6312942	442
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WLK 1150 FT	6303496	6312969	442
WLK 1160 FT	6303557	6312977	442
WLT 1120 FS	6302475	6312632	442
WLT 1120 FT	6302710	6312713	442
WLT 1120 VA4571	5910367	6312815	592
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WLT 1130 FT	6302772	6312721	442
WLT 1130 VA4571	5910374	6312817	592
WLT 1140 FS	6302598	6312659	442
WLT 1140 FT	6302833	6312748	442
WLT 1140 VA4571	5910381	6312819	592
WLT 1150 FS	6304271	6312667	442
WLT 1150 FT	6302895	6312756	442
WLT 1150 VA4571	5910435	6312821	592
WLT 1160 FS	6302659	6312675	442
WLT 1160 FT	6302956	6312764	442
WLT 1160 VA4571	5910442	6312823	592
WLT 1620 FT	6172696	6229727	447
WLT 1630 FT	6172757	6229735	447
WLT 1640 FT	6172818	6229743	447
WLT 1650 FT	6172870	6229751	447
WLT 1660 FT	6172931	6229778	447
WLT 2020 FT	6176595	6233627	453
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Always indicate the item number when ordering.

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WRAA 163 FT	6335831	6098831	438
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WRAA 164 FT	6335893	6098835	438
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WRAA 165 FT	6656776	6098839	438
WRAA 166 FS	6335718	6098816	438
WRAA 166 FT	6657018	6098843	438
WRB 90 120 FS	6033676	6098304	434
WRB 90 120 FT	6352159	6098344	434
WRB 90 130 FS	6351916	6098308	434
WRB 90 130 FT	6352210	6098348	434
WRB 90 140 FS	6351978	6098312	434
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WRB 90 150 FS	6352036	6098316	434
WRB 90 150 FT	6352272	6098356	434
WRB 90 160 FS	6352098	6098320	434
WRB 90 160 FT	6352333	6098360	434
WRB 90 162 FS	6335237	6098703	437
WRB 90 162 FT	6335534	6098730	437
WRB 90 163 FS	6335299	6098707	437
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WRB 90 166 FS	6335473	6098719	437
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WRGV 110 FS	6299294	6091318	433
WRGV 110 FS	6299294	6091318	440
WRGV 110 FT	6299355	6091334	433
WRGV 110 FT	6299355	6091334	440
WRGV 110 VA4301	6897018	6091338	590
WRGV 110 VA4301	6897018	6091338	595
WRGV 110 VA4571	5403081	6091343	590
WRGV 160 FS	6171071	6227953	437
WRGV 160 FS	6171071	6227953	445
WRGV 160 FT	6171132	6227961	437
WRGV 160 FT	6171132	6227961	445
WRGV 160 VA4301	5696407	6227965	598
WRV 200 FT	6175574	6232507	451
WRVL 110 FS	6299171	6091164	432
WRVL 110 FS	6299171	6091164	440
WRVL 110 FT	6299232	6091180	432
WRVL 110 FT	6299232	6091180	440
WRVL 110 VA4301	6901814	6091229	590
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WRVL 110 VA4571	5403074	6091234	590
WRVL 160 FS	6170470	6227708	435
WRVL 160 FS	6170470	6227708	444
WRVL 160 FT	6170531	6227716	435
WRVL 160 FT	6170531	6227716	444
WRVL 160 VA4301	5684107	6227724	597
WRWV 160 A FS	6170838	6227856	436
WRWV 160 A FS	6170838	6227856	445
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WRWV 160 I FS	6170951	6227902	445
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WRWVK 110 FS	6309610	6091377	433
WRWVK 110 FS	6309610	6091377	440
WRWVK 110 VA4301	6309672	6091393	433
WRWVK 110 VA4301	6309672	6091393	440
WRWVK 110 VA4301	6309672	6091393	590
WRWVK 110 VA4301	6309672	6091393	595
WRWVK 110 VA4571	5403111	6091397	590
WRWVK 160 FS	5767701	6227832	436
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Terms and conditions of sale and delivery of the companies OBO Bettermann GmbH & Co. KG and OBO Bettermann Projekt und Systemtechnik GmbH, and OBO Befestigungselemente GmbH, Menden

1. All our supplies and services shall be governed exclusively by the following terms and conditions, including our additional terms and conditions for cable tray business transactions. Any terms and conditions of business and purchasing of the customer shall be valid only if we have acknowledged them in writing. Our quotations are without engagement; they are mere invitations to submit contract offers. Any and all transactions and agreements, including those entered into by our employees and agents shall only be binding upon our written confirmation or invoicing. The foregoing provision shall also apply to any modifications of the agreed formal requirements.

2. The documents and data pertaining to the quotation, such as illustrations, brochures, drawings, dimensions, loading capacity values and weight details are approximate only, unless they are expressly stipulated to be binding.

Samples are non-binding samples for inspection. Any purchase according to sample will be subject to customary deviations and deviations resulting from normal production processes. The properties of the sample shall be no

guaranteed quality of the purchase object unless expressly stated otherwise in the confirmation of order. Samples must be returned to us at the latest within four weeks in perfect condition. If they are not returned within this period in proper condition, we shall be entitled to charge the purchase price for the sample in accordance with our current price list. All information on our products, in particular the illustrations, drawings, weight, dimension and performance data included in our quotations and printed matter shall be regarded as approximate average values and shall not represent any quality guarantee.

With regard to products made according to customer drawings, samples and other instructions of the customer, we will not provide any warranty nor assume any liability for the due and proper functioning of the product or for any other defects if and to the extent they are based upon the customer's specifications. The customer shall indemnify us from any third party claims, including claims for product liability as may be asserted against us for damages resulting from the products unless we have caused such damages by intent or gross negligence. The customer shall warrant that the manufacture and supply of products made in accordance with his instructions will not infringe any proprietary rights of third parties. Should any proprietary rights be asserted against us, we shall be entitled, without any legal review of the third party claims, to withdraw from the contract after hearing the customer, unless the third party withdraws the claims asserted against us under its proprietary rights within eight days by written declaration. The customer shall compensate us for any damage sustained as a result of the assertion of proprietary rights. In case of withdrawal, the work we have carried out so far shall be remunerated. Further rights under the statutory provisions shall not be affected thereby.

Any moulds, tools and design data produced by us for the execution of the order shall be our exclusive property. Unless expressly agreed otherwise, the customer shall not have any claims thereto, even if he has contributed to the costs of producing any such moulds, tools and design data.

3. The packing, shipping route and means of transportation shall be left to our discretion in the absence of any other agreements. They shall be charged at their cost price. We will take back undamaged cases, when being returned carriage paid, at 2/3 of the amount invoiced. The one-way or pool pallets used for transport shall be either exchanged upon taking delivery or returned. The smallest packing units stocked and listed may not be broken up for rationalisation reasons. In case of orders for different quantities, the nearest packing unit will be supplied.

We reserve the right to deviate from the agreed delivery quantity, in particular in the case of custom-made products, to a customary extent or in conformity with national or international standards. In case of a demand for adhering to a precise quantity, an express reference is necessary and subject to confirmation.

Master and call orders shall oblige the customer to accept the total quantity on which the master/call order is based. Where no particular call orders are specified in the contract, the total quantity of the master call order must be called within twelve months. If the customer fails to adhere to call deadlines, we shall be entitled to deliver and charge the total quantity in full after four weeks from written notice with reference to the consequences of any failure to call. Our rights arising from any default of the customer shall not be affected thereby.

4. Unless otherwise agreed, our prices are quoted ex works and do not include packing and insurance. The value added tax at the rate applicable on the date of dispatch will be added to our prices. The purchaser shall ensure the correctness of his VAT identification number, which he must notify to us immediately without being asked. He shall undertake to inform both us and the competent domestic tax authority without delay of any change in his name, address and VAT identification number.

Delivery shall be franco domicile within Germany, i.e. carriage and packing prepaid, if the net order value is in excess of € 1,200. For small orders below € 100 (net excluding value added tax), we shall invoice a lower quantity surcharge of € 10 (net) per order. Upon transfer of our supplies and services to a carrier or forwarding agent, at the latest upon their leaving our warehouse or supply plant, the risk shall pass to the recipient, even in case of deliveries free place of destination.

5. Delivery periods and delivery deadlines shall be approximate only unless we have expressly stated in writing that they are binding. Delivery periods shall commence upon receipt of our confirmation of order, but not before clarification of all execution details, ex place of delivery. The customer shall only be entitled to withdraw from the contract after having granted a reasonable extension of time. We reserve the right to make partial deliveries. Claims for damages and reimbursement of expenses - for any reason whatsoever - shall be subject to the provisions set out in article 10.

In the event of any circumstances that are beyond our control within the scope of normal operating risks and obstruct or make impracticable any delivery, we shall be entitled to suspend delivery by the duration of such

obstruction plus a reasonable start-up period or to withdraw from the contract for the part not yet fulfilled. The purchaser can demand a statement from us as to whether we wish to deliver within a reasonable period or withdraw. If we fail to make such a statement, the purchaser may withdraw. Our notice to the purchaser shall be deemed to be sufficient evidence that we have been prevented from delivering.

Delivery time is extended in case of such events as labour disputes, strikes and lockouts, orders from the authorities, difficulties with the procurement of materials, spoiled work or post-processing, shutdowns and staff

shortage as well as shortage of means of transport, and general occurrence of unforeseen events beyond our scope of influence, by the length of duration of these events.

6. Payments shall be made upon receipt of invoice less a 3% cash discount for payment within 10 days or net after 30 days from date of invoice. Erection work and all paid labour work must be paid within 10 days without deduction of any cash discount. In case of non-cash payments, the date of the credit note will be deemed to be the date of receipt of payment. Payments received shall always be credited first against costs, then against interest and then against the earliest liability. Cheques and bills of exchange shall only be accepted as means of payment.

Any payment by bill of exchange shall be subject to a prior separate and written agreement, whereby all bill costs shall be borne by the customer and no discount can be granted. The customer shall have no right to refuse performance and no right of retention - for any legal reason whatsoever - unless we have acknowledged his claim beforehand in writing or his claim has the force of law.

The customer shall only be entitled to set off claims which have the force of law, are undisputed or acknowledged by us in writing.

7. We shall retain title to the goods supplied by us until all our claims arising from our business transactions with the customer have been satisfied - current account clause - and all bills of exchange or cheques submitted for payment by the customer have been honoured.

Any treatment or processing of goods subject to our retention of title (reserved goods) shall be carried out for us as the manufacturer in accordance with § 950 BGB (German Civil Code) without any obligation on our part. If our reserved goods are to be regarded as the main item or the main item is owned by the customer, full title to the new item shall pass to us when it is created. In other cases, we shall acquire a co-ownership interest in the new item in the proportion of the sales value of our reserved goods to the other goods used for the new item at the time of processing, intermingling, joining or mixing. The customer shall take custody of our ownership or co-ownership interest free of charge; it shall be treated as reserved goods.

Before transfer of title, our goods shall be neither pledged nor assigned as collateral without our prior consent. In addition, any third party rights or pledges shall be notified to us immediately and we shall be given all details and provided all documents necessary for intervention; otherwise the customer must bear our loss. In the latter case, our total claims against the customer shall also be immediately payable.

The customer shall be entitled to sell or to use our reserved goods in the ordinary course of business subject to the condition that the relevant claims are transferred in accordance with article 8 below. This right shall lapse upon the customer's failure to promptly meet his payment obligations towards us or in the event of any cheque or bill protests or his suspension of payments. In such cases, we shall be entitled to take back the goods provisionally at the customer's expense and to sell them at our duly exercised discretion after a corresponding reminder has been sent to the customer. We will then pass the due amount to the customer's credit.

8. If our goods are sold before payment of our claim, the customer shall be obliged to retain our title against his purchaser until the goods have been paid for in full by the purchaser. The claim arising against the purchaser from such resale as well as any other ancillary rights or security interests of the customer resulting from the sale and any claims for compensation in case of damage to or destruction of our reserved property, including the relevant insurance sum shall hereby be assigned to us. We hereby accept this assignment. Where our co-ownership interest is sold, the relevant claims shall be assigned in the amount corresponding to the value of our interest.

The customer shall, at our request, inform us of his purchasers, notify them of the assignment made and provide us with any and all documents required to assert our rights.

As long as the customer meets his contractual obligations without delay, he shall be authorised to collect the claims assigned. He shall keep the amounts collected on our behalf separately and remit them to us immediately

as soon and as far as our claims become due. The authorisation shall lapse in case of any cheque or bill protest of the customer or his definite suspension of payments. The customer shall bear the costs incurred for any action

taken against third parties and shall advance them upon request.

If the security provided to us by the retention of title and the anticipatory assignment should exceed the claims to be secured by more than 20%, we shall, at the customer's request, release paid supplies of our choice. Upon payment of all our claims by the customer, assigned claims shall pass to the customer.

9. Any complaints for obvious defects regarding the quantity or quality of our supplies and services that are identifiable upon careful inspection shall without delay, but at the latest within the period of limitation of eight days from arrival of the goods at the address of the customer or the person appointed by him, be notified in writing to us, not to our representatives. Slight deviations in dimensions and designs within the scope of defined technical tolerances shall not give rise to any right of complaint. Any rejected goods may only be returned to us with our prior written authorisation.

In case of justified complaints within the prescribed period, we shall, at our option, take remedial action by way of subsequent performance, by rectifying the defect, supplying non-defective goods or providing a credit note for the lower value calculated.

We shall be entitled to refuse subsequent performance in accordance with the statutory provisions. If we refuse subsequent performance, if any subsequent performance remains unsuccessful or if the customer cannot be reasonably expected to accept any subsequent performance, the latter shall be entitled to withdraw from the contract in compliance with the provisions of the following sentences. The customer shall only be entitled to withdraw from the contract - where a withdrawal is not excluded by law - upon the unsuccessful expiry of a reasonable period for subsequent performance set by him, unless this period was not required under the statutory provisions (§§ 281 para. 2, 323 para. 2, 440, 441 para. 1 BGB (German Civil Code)).

In case of his withdrawal, the customer shall be liable for any deterioration, destruction or loss of use resulting from any negligence or intent on his part. Any claims for damages or reimbursement of expenses of the customer shall be subject to the provisions set out in article 10.

In the case of any fraudulent concealment of a defect or in the case of any provision of a quality guarantee for the goods sold at the time of the passing of risk within the meaning of § 444 BGB (German Civil Code) (seller's declaration that the object sold has a specific property at the time of the passing of risk and that the seller, regardless of any fault on his part, intends to be answerable for any and all consequences resulting from its absence), the customer's rights shall be exclusively governed by the statutory provisions.

We shall - in addition to the statutory grounds for refusal - also be entitled to refuse subsequent performance if and as long as the customer fails to send us, at our request, the rejected goods or a sample thereof; the customer shall have no right of withdrawal for any such refusal. We may further refuse any subsequent performance if the goods concerned have been altered or modified without our consent unless the customer can prove that the defect was not caused by such alteration or modification.

The limitation period for any claims arising from defects shall be one year; in the case of goods which have been used in accordance with their intended purpose for a building and have caused its defectiveness, the limitation period shall be two years. The provisions of §§ 478, 479 BGB (German Civil Code) on recourse in the chain of suppliers shall not be affected thereby.

10. In the case of a pre-contractual, contractual or non-contractual breach of duty, including unsatisfactory delivery, tortious conduct and producer's liability, we shall only be liable for compensatory damages and reimbursement of expenses - subject to further contractual or statutory liability requirements - in the case of intent, gross negligence or slightly negligent breach of a material contractual duty (contractual duty the infringement of which jeopardises the fulfilment of the object of the contract). However - except in the case of intent - our liability shall be limited to the typical contractual damage that was foreseeable at the time the contract was entered into.

The purchaser shall not be permitted to make a claim for expenses incurred in vain.

Except for any breach of material duties, our liability for slight negligence shall be excluded, but in any case be limited to the amount of the purchase price.

Any claim asserted by the customer or a third party for payment of a contractual penalty shall be excluded.

With regard to damages caused by delay, we shall only be liable for slight negligence up to the amount of 5% of the purchase price agreed with us.

The exclusions and limitations of liability set forth above shall not apply in the event that a guarantee is given with respect to the quality of the object sold within the meaning of § 444 BGB (German Civil Code) if a defect is fraudulently concealed or in the event of injury to life, physical injury or injury to health, or strict liability under the German Product Liability Act.

Any and all claims for damages against us, for any legal reason whatsoever, shall become statute-barred at the latest after one year from delivery of the goods to the customer, in the case of tortious liability from the time of knowledge, or grossly negligent ignorance, of the circumstances giving rise to the claim and the person liable to pay damages. This provision shall not apply in the case of liability for intent and in the event that a guarantee is given for the quality of the object sold, in the case of fraudulent concealment of a defect or in the event of injury to life, physical injury or injury to health, or strict liability under the German Product Liability Act. Any shorter limitation periods shall take precedence.

11. We shall be entitled to process and store any customer data obtained with regard to or in connection with the business relationship in accordance with the German Federal Data Protection Act, irrespective of whether such data is provided by the purchaser himself or by any third parties.

12. Place of performance for delivery and payment is Menden/Sauerland. The court of competent jurisdiction for any and all disputes, including disputes with regard to bills of exchange and cheques, is the Local Court (Amtsgericht) of Menden or, at our option, the District Court (Landgericht) of Arnsberg, irrespective of the value of the object in dispute. We shall, however, also be entitled to take legal proceedings against the customer at the place of his registered office.

German law shall be exclusively applicable. The application of international purchase laws is hereby excluded.

Should, for any reason whatsoever, individual provisions of our terms and conditions of sale and delivery be invalid, the validity and binding nature of the other provisions shall not be affected thereby. The customer agrees, that the invalid provision shall be replaced by a valid provision that comes as close as possible to the economic meaning of the invalid provision.

13. The prices of products made of brass and copper are subject to certain fluctuations that are based on the relevant DEL listings. The prices of our brass articles are based on a DEL listing of € 150 for Ms 58, those of our copper products on a DEL value for electrolyte copper of € 200.

In case of any increase or reduction in these prices by more than € 15, a five per cent surcharge or deduction shall be made for each 15 points. The calculation of any such surcharges or deductions shall be based on the DEL listing of the date of our receipt of the order.

Valid from November 2015

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Building Connections

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