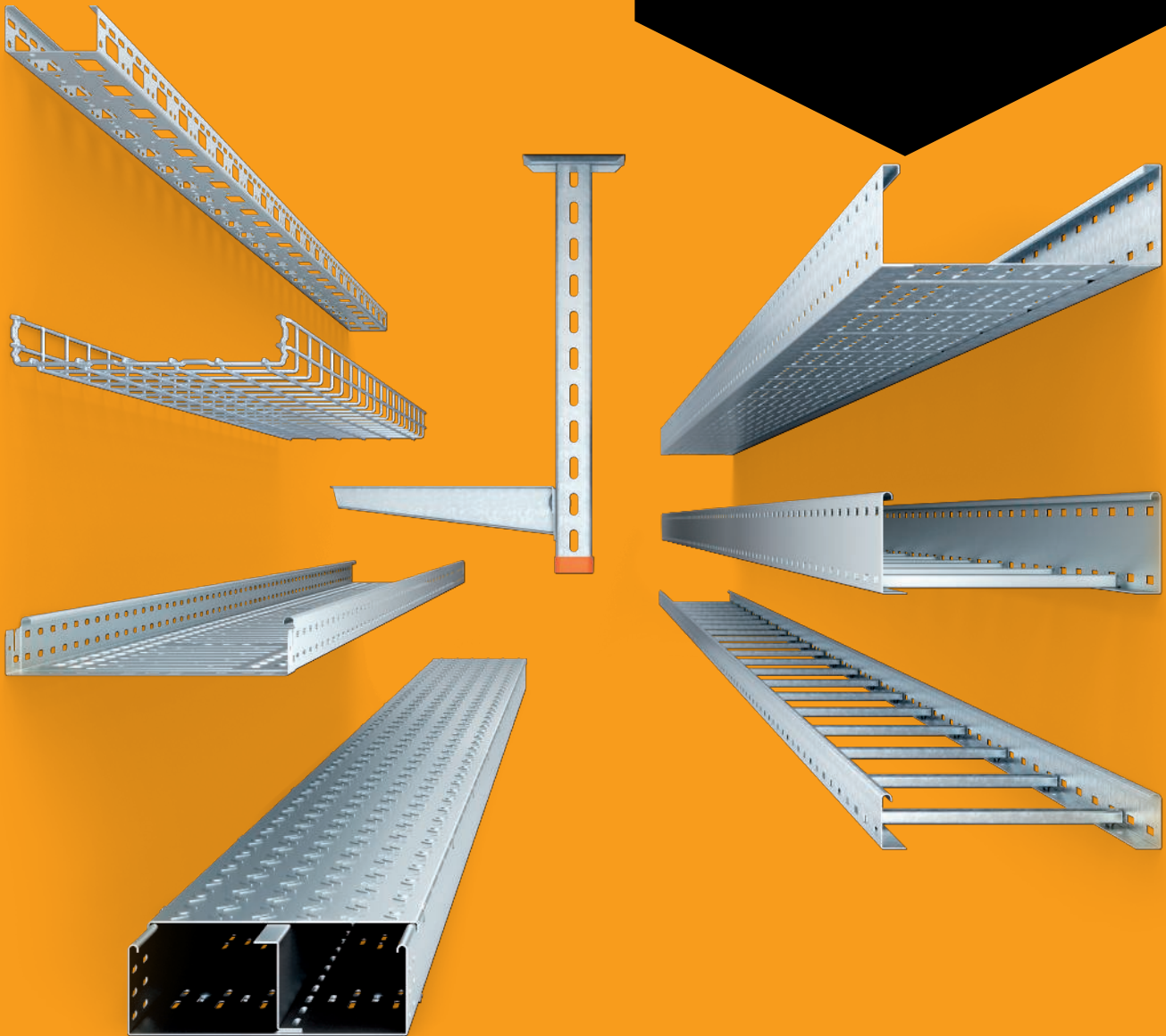


KTS



Cable support systems

Export GmbH & Co KG

2019/2020

Building Connections

OBO
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











Service times
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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
- Product information
- Data sheets
- Data sheets

Invitations to tender for lightning protection/earthing at the highest level:

OBO manufacturers products to RAL GZ642-5 and is dedicated to compliance with the RAL directives. Lightning protection and earthing products can be used for invitations to tender according to RAL.

These documents are continually updated and can be downloaded for free 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 cable support systems, fire protection systems, connection and fastening systems, transient and lightning protection systems, cable routing systems, device systems and underfloor systems can be recalled for free. 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

The new generation is here: 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:

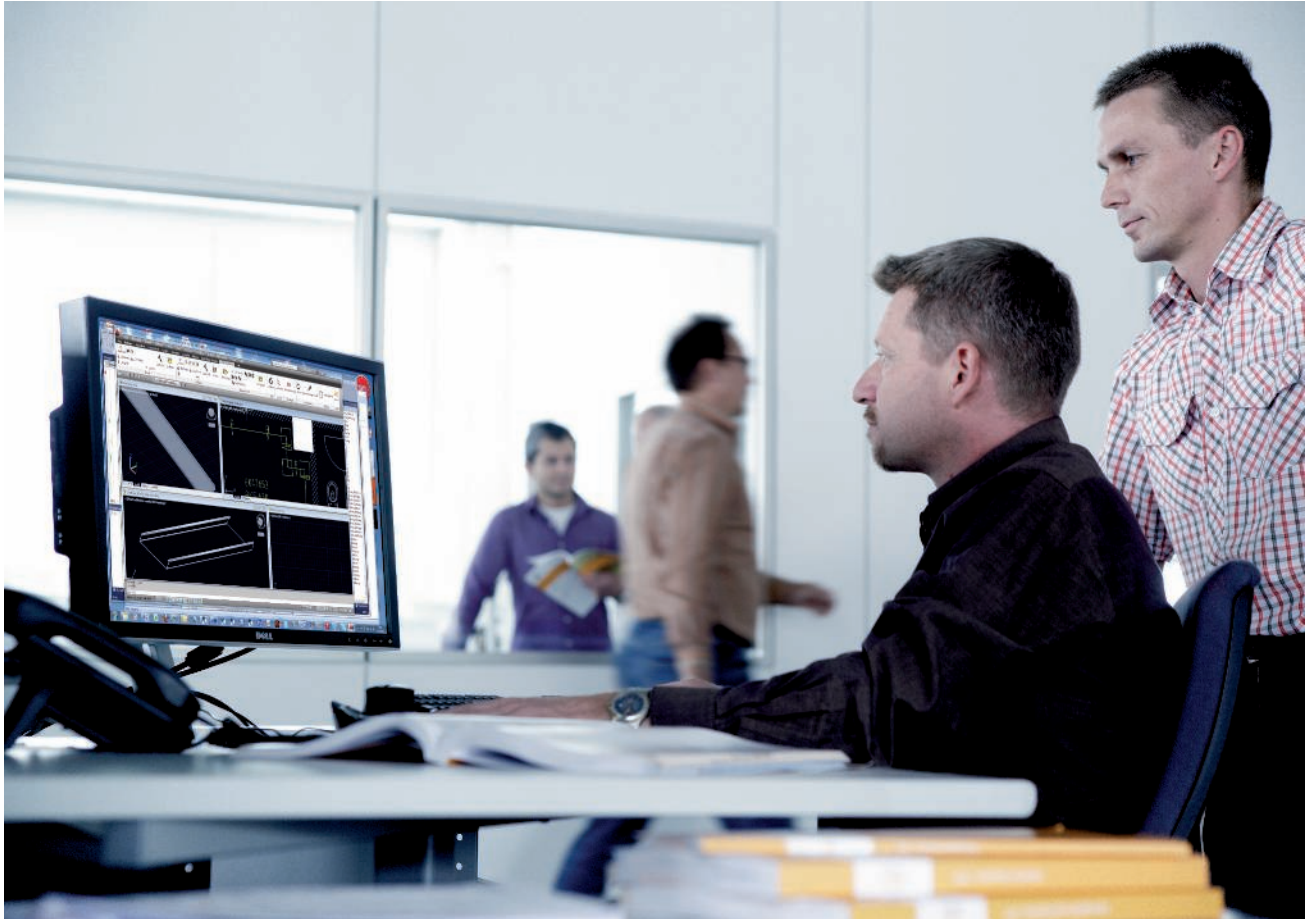
- Redesigned user dialogues
- Simplified operation
- Improved component depiction
- Individual adjustment of object display
- Completely new system (runs on 64-bit systems)
- Mass determination with additional materials
- Output of the mass determination in various formats (Excel, PDF, Text)
- Simple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

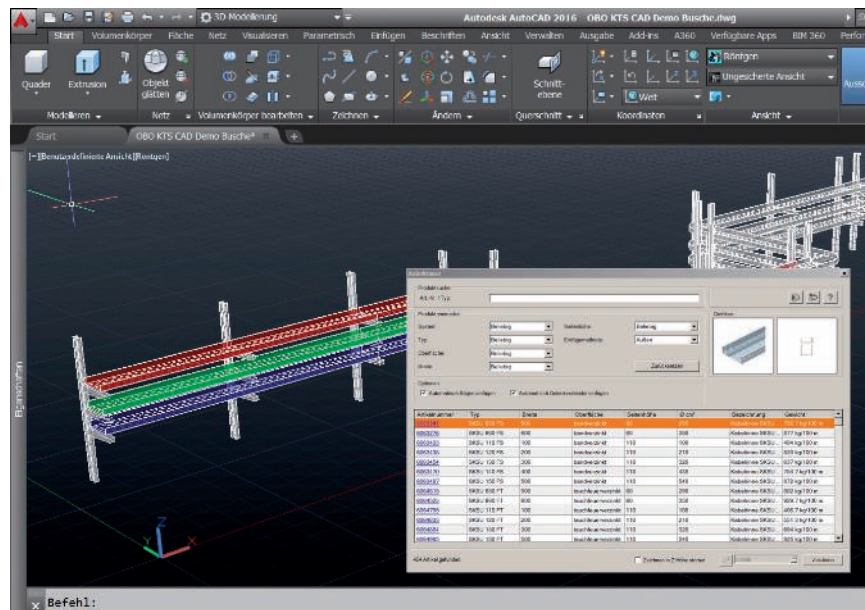
OBO Construct KTS: Project planning, drawing and generation



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.



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 emphasise 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.

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.

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 interferences) 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 (emissions), which are picked up by other devices or units (immision) that act as receivers (interference sink). This, in turn, means that the function of an interference sink can be severely reduced, and, in the worst-case scenario, total failure and economic losses. The interferences can then 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 - Lighting strike - Welding devices	- Galvanic - Inductive - Capacitive - Electromagnetic	- Process computer - Radio receiver systems - Controllers - Converters - Measuring units



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.

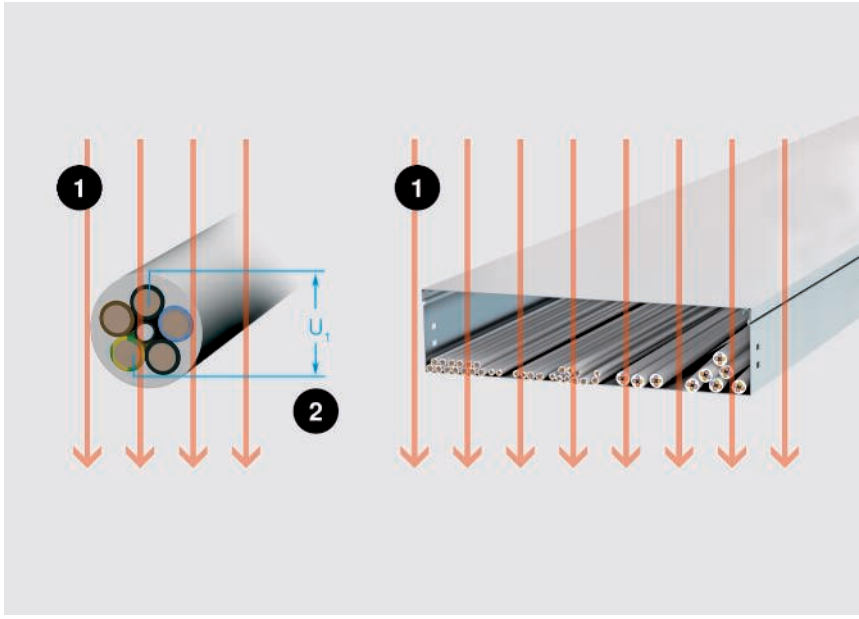
Cable support systems and their contribution to EMC

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.

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 = $V_{1\text{LzuPE}}$



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:

$$\alpha_s = 20 \log (V1/V2) \text{ dB}$$

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.

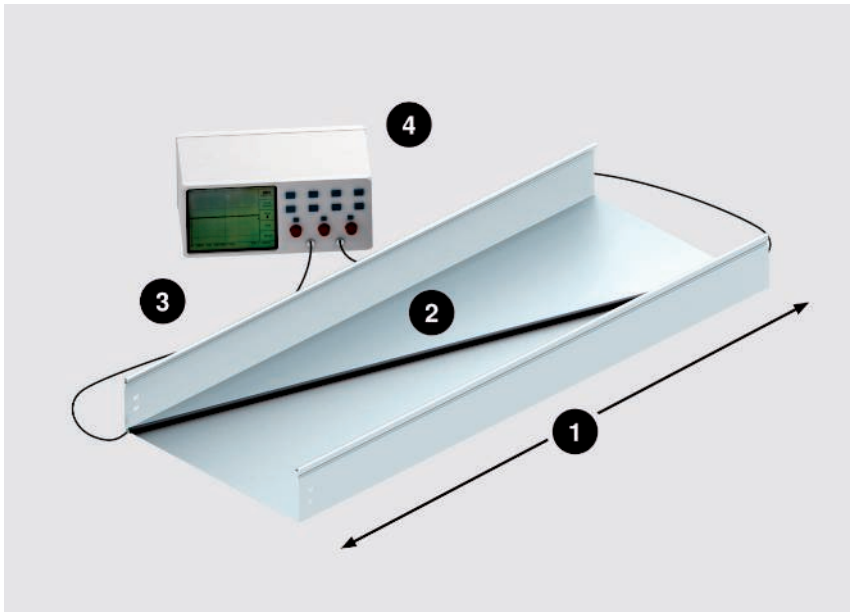
Note:
The shield insulation against electrical fields is almost perfect as it has a Faraday cage.

Magnetic shield insulation 8/20 dB

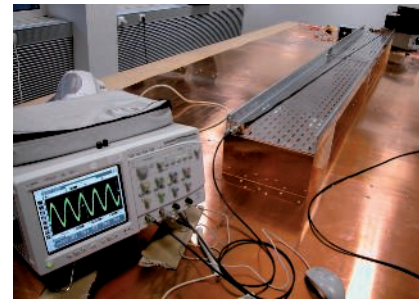
Type, cable tray / cable ladder	Without cover	With cover
RKSM 630 FS	20	50
MKS 630 FS	20	50
MKS 630 FT	20	50
MKSU 630 FS	20	50
MKSU 630 FT	20	50
MKSU 630 VA	20	50
GRM 55/300 FS	15	34
LG 630 NS FT	10	15



Transfer impedance of cable support systems



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



$$Z_T = \frac{U_{\text{Stör}}}{I_{\text{Stör}} \cdot L}$$

Z_T : Transfer impedance

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

$I_{\text{Interference}}$: Interference current, fed into the shield 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 $V_{\text{Interference}}$, measured in the lengthwise direction within the cable support system, to the coupled current $I_{\text{Interference}}$. 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:

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

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:

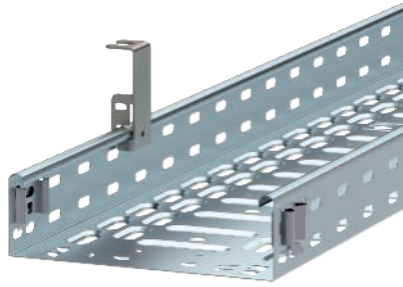
The effect of the cable support system against galvanic coupling was clearly proved by the experiments.

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

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 condensate, 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 at work, 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 sea water 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				

Contact corrosion



Land climate

Construction part material (large)		Construction element material (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

Contact corrosion



Industrial atmosphere

Construction part material (large)		Construction element material (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	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

Contact corrosion



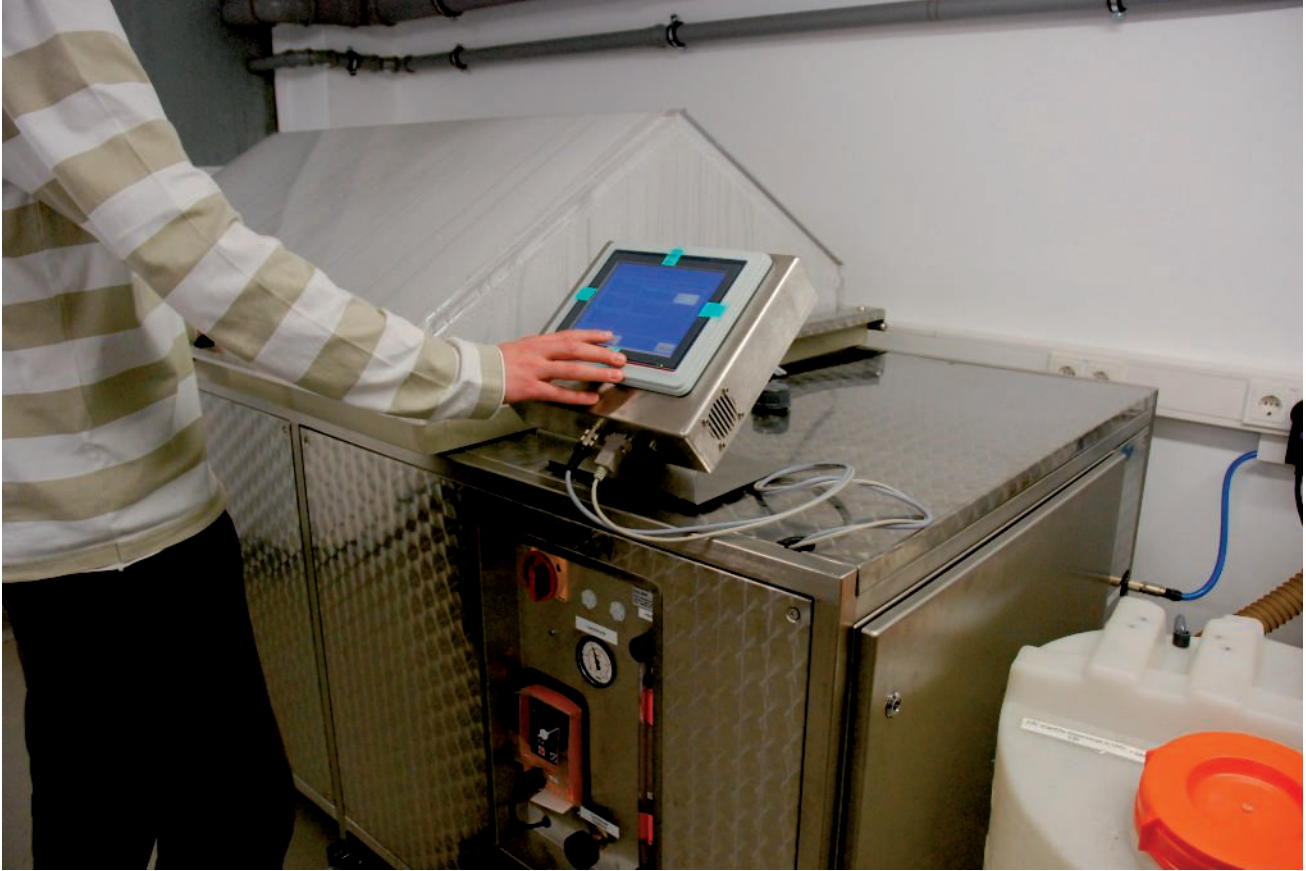
Sea climate

Construction part material (large)		Construction element material (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

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 removal
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. warehouse, 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

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.



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

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



Applications: Tunnel construction, food or chemical industries

For special hygiene and quality requirements, as well as for special visual criteria for open wiring, there are also OBO stainless steel systems.

V2A 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

Product range: V2A programme with the title "Stainless steel systems, grade 2"

SS4 stainless steel

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

Product range: V4A programme with the title "Stainless steel systems, grade 4"



Applications with specific optical requirements or special environmental conditions

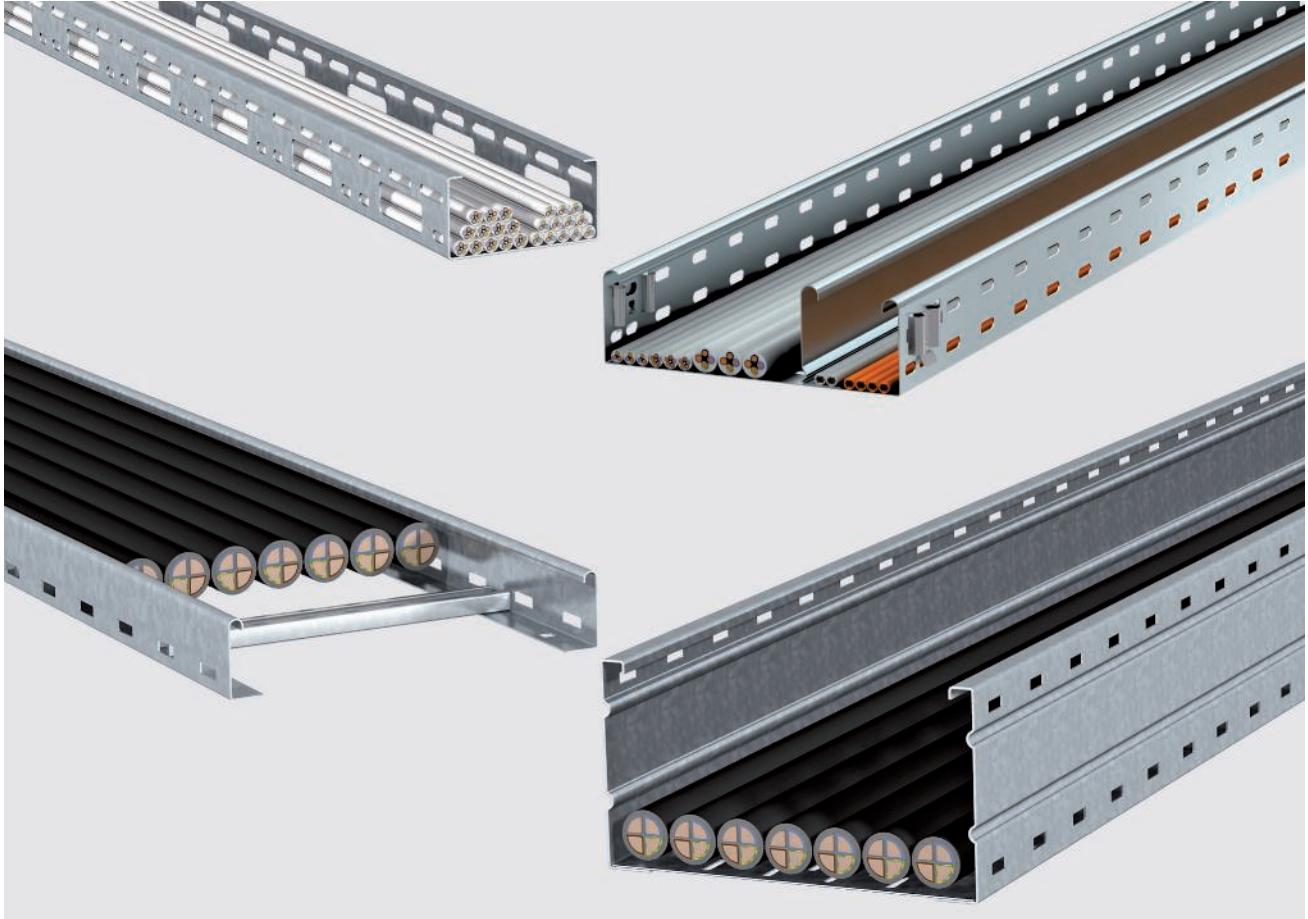
Colour-coated cable support systems are becoming ever more popular. The coating may be required for optical reasons or for reasons of corrosion protection.

Colour coatings for reasons of corrosion protection

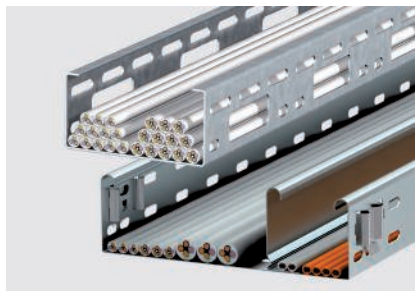
- Cable support system in FT (hot-dip galvanised version)
- All RAL colours available
- Coating of the visible surfaces and/or the complete system
- Suitable for the colour of the structure when routed openly
- Separation of different voltages/functions (e.g. blue 230/400 V power supply; red weak current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

Colour-coated systems are not indicated specially in this catalogue. You can obtain details of these systems by contacting our telephone hotline on +49 23 73 89 - 12 38.

Which cabling method is used?

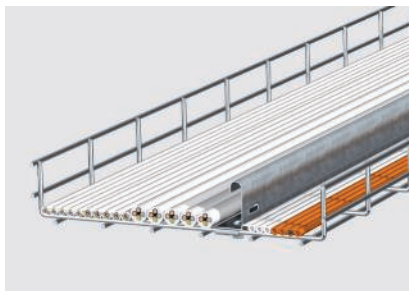


Not all cables are the same. To select the perfect cable support system, you need to know which type of cables are to be laid: Are they sensitive data cables, which must be laid at a certain distance from each other on account of the necessary shielding? Or power cables, for which a not inconsiderable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



Universal cable trays

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



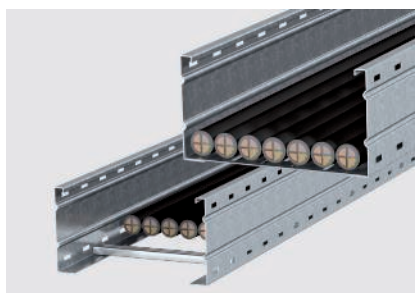
Mesh cable trays for the installation of light cables

Areas of application: IT cabling, telephone cabling and control cables. Also suitable for use in false ceilings and cavity floors.



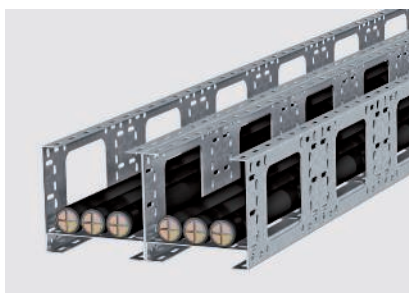
Cable ladders for power cables with a large cross-section

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

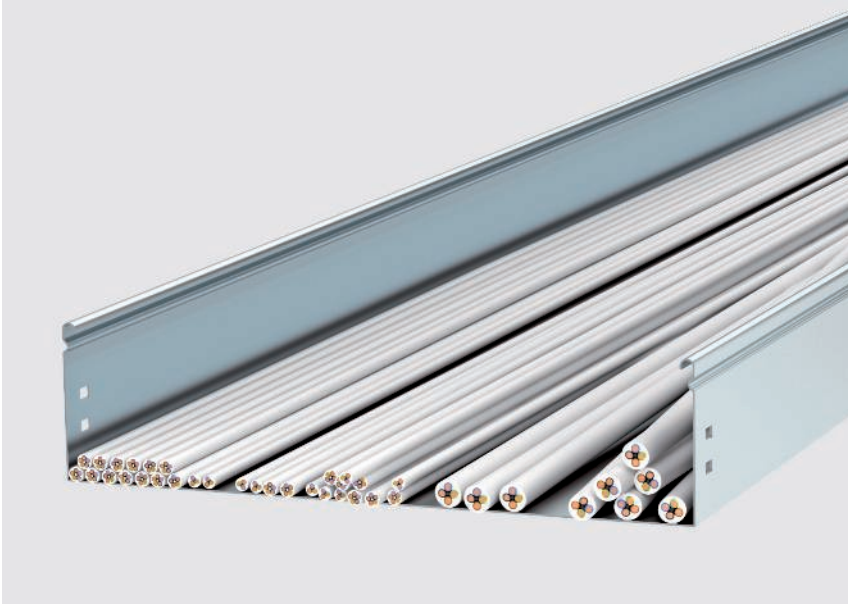
The product range that knows no bounds. The range of individually combinable products is particularly suited to complex installation tasks.



AZ channel for universal use

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

How can I work out the volume of cables?



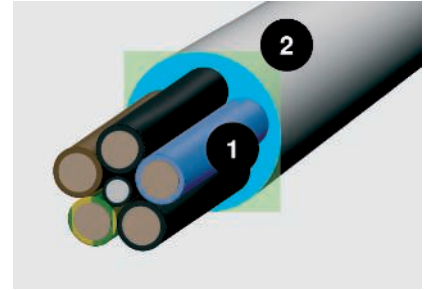
The usable cross-section of the cable simulates the cavity in real laying.

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.

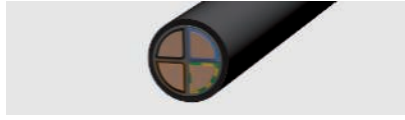
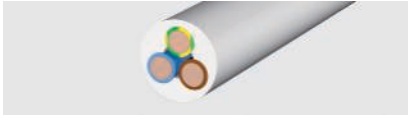
Calculation with the formula $(2r)^2$

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.



Cable diameter (1) and space required (2)

Cable volume



Insulated power cables

Type	Diameter mm	Usable cross-section cm ²
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 cm ²
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	25	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	Diameter mm	Usable cross-section cm ²
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	6	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



Coax cable (standard)

Type	Diameter mm	Usable cross-section cm ²
SAT/BK cable	6.8	0.48



IT cables type Cat...

Type	Diameter mm	Usable cross-section cm ²
Cat. 5	8	0.64
Cat. 6	8	0.64

How can I find a system of the appropriate volume?



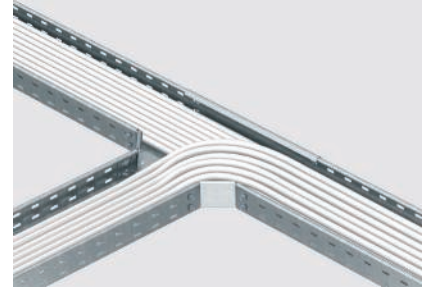
Cable height

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



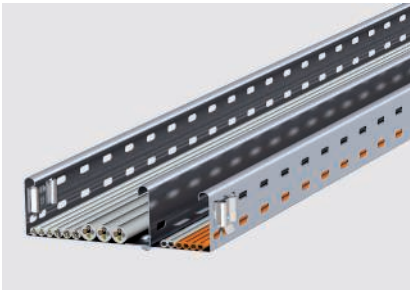
Volume reserve

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

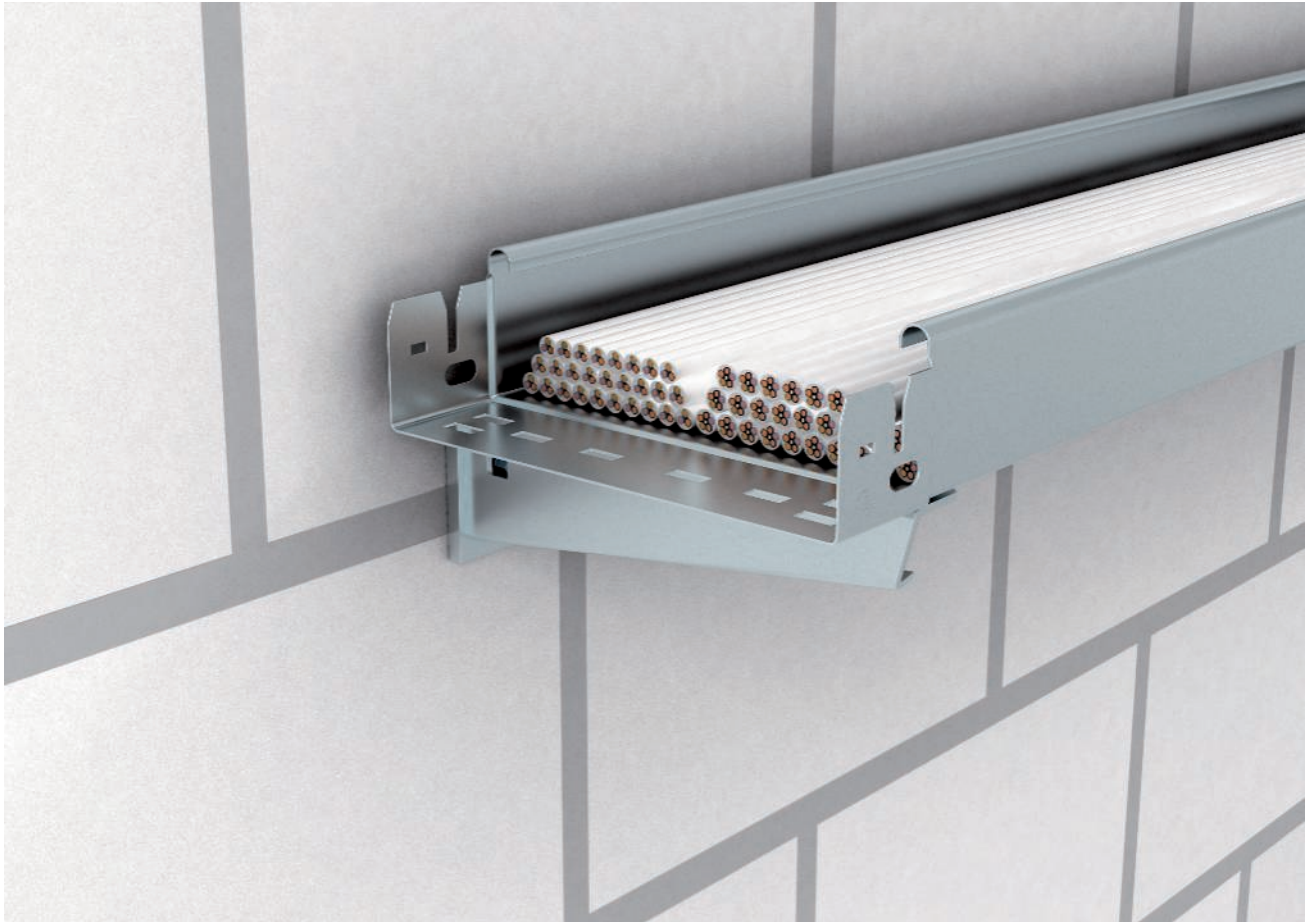
Flat, wide variant:

- e.g. for power cables
- Cable tray width: 300 mm
- Side rail height: 35 mm
- Usable cross-section: 103 cm²

Narrow, high variant:

- e.g. for data cables
- Cable tray width: 100 mm
- Side height: 110 mm
- Usable cross-section: 108 cm²

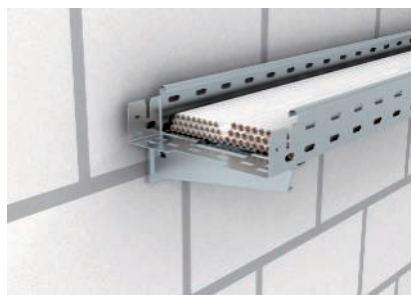
Reference laying types



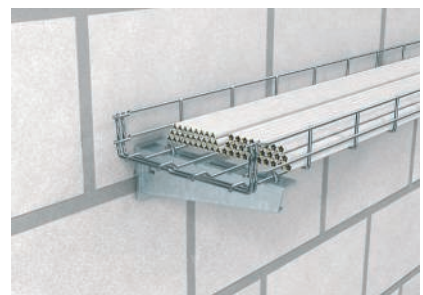
When selecting the correct system, also observe the current DIN/VDE standards (0298 T1 to T4). They provide information on the heating of conductors, depending on the amassment and the ambient temperature.



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

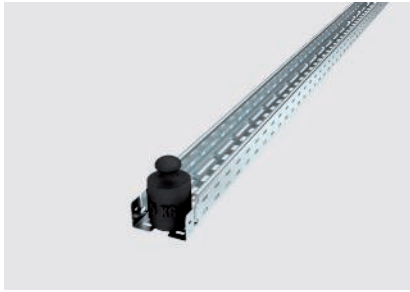


Reference laying type: E or F
Cable on perforated cable tray, horizontal/vertical, e.g. type RKSM/MKSM



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

How do I calculate the cable weight?



100 mm = 15 kg/m



200 mm = 30 kg/m



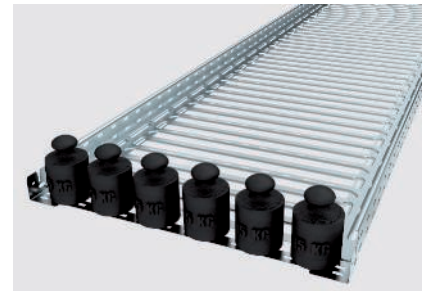
300 mm = 45 kg/m



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.

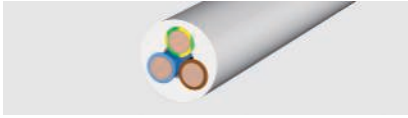
	0.028 N	
Cable load (F) =	_____	x Usable cross-section
	m x mm ²	

	0.028 N	
1. Cable load (F) =	_____	x 17,800 mm ² = 500 N/m
	m x mm ²	

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

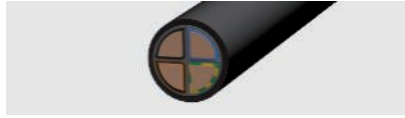
3. Maximum occurring load = 50 kg/m

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



Coax cable (Standard)

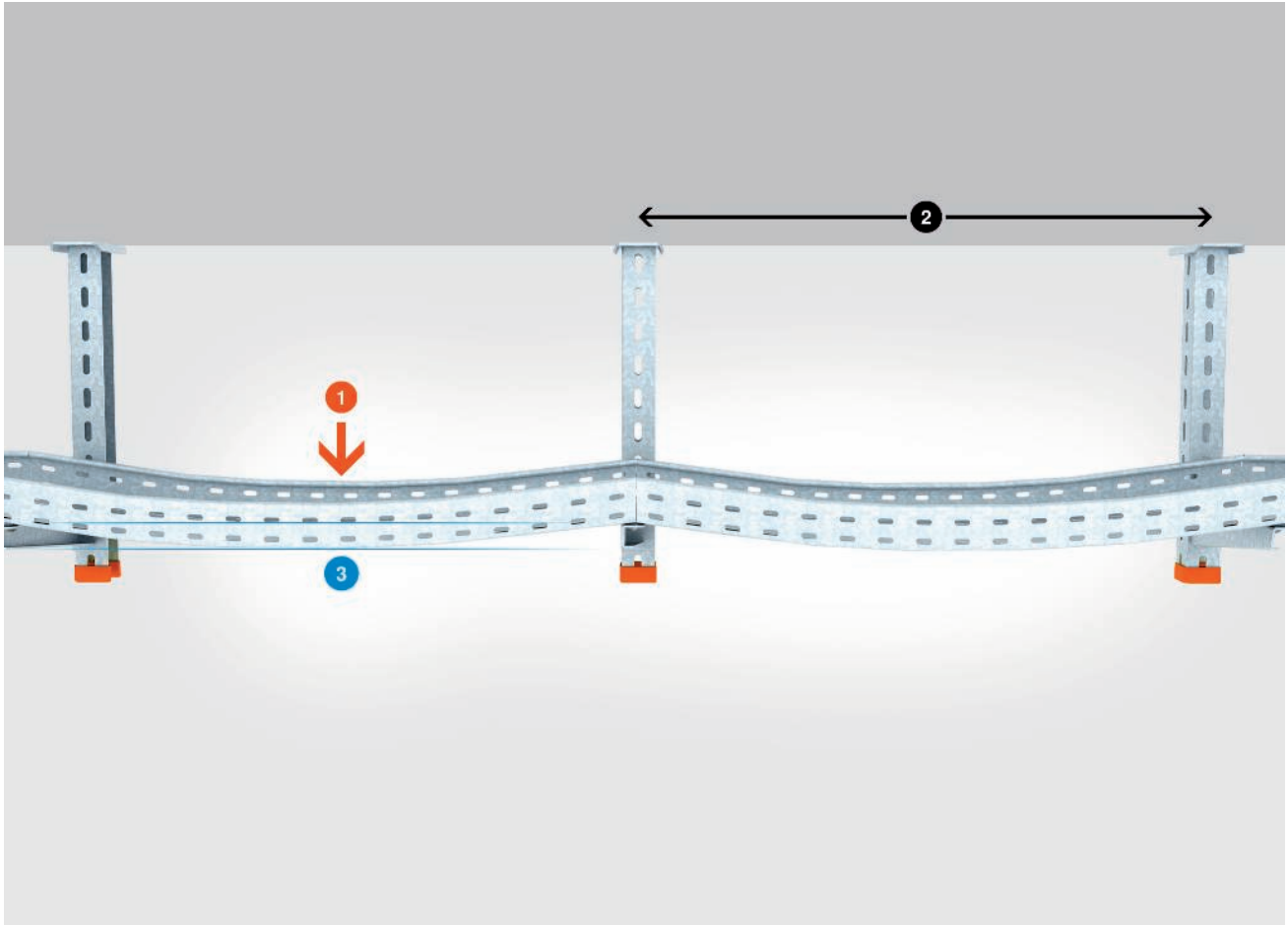
Type	Cable load kg/m
SAT/BK cable	0.06



IT cables Type Cat...

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

Which trays and ladders can support which cable load?



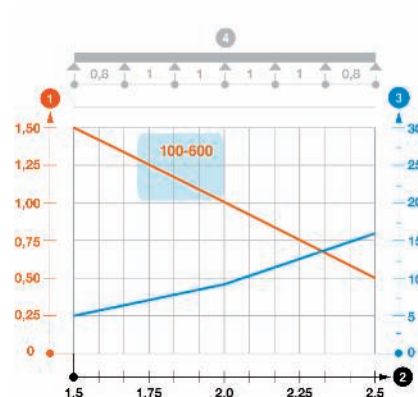
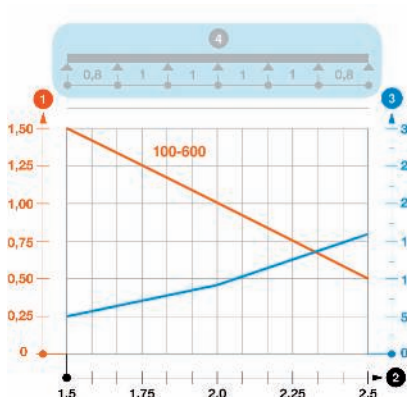
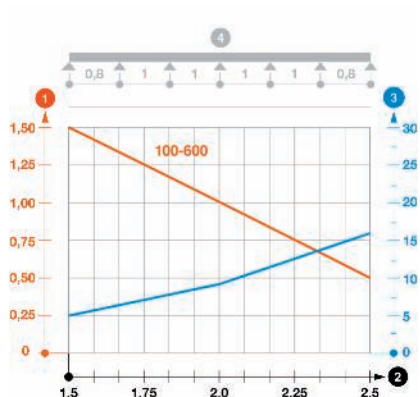
Explanation of the pictograms: 1 = load in kN without man load, 2 = support width in m, 3 = strut bend in mm

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.

Which trays and ladders can support which cable load?



Load diagram, legend

- 1 = Load in kN/m
without human weight
- 2 = Support width in m
- 3 = Strut bending in mm
- 4 = Schematic diagram
of the spans during
the testing process
- = Approved load depending on
support width for the different
tray widths
- = Rail bend depending on
span

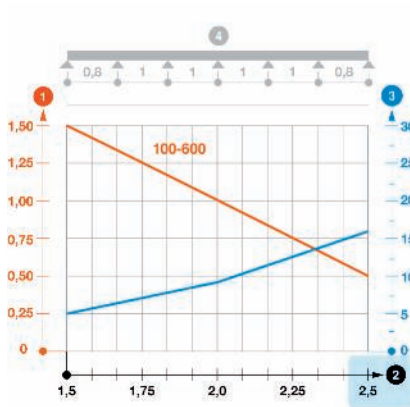
Information 1: The testing process

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 $0.8 \times L$ at the front and rear ends of the cable tray.

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

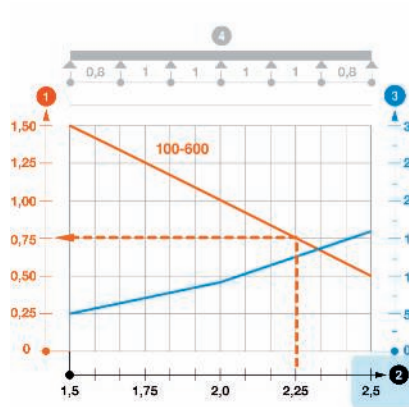
The load capacity of the cable trays according to the support width can be read off in the diagram using the load curves – this is an example for a cable tray for the tray widths 100 to 600 mm. It may occur that, in the load curves, width differences must be made, allowing multiple curves to be visible 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.

Which trays and ladders can support which cable load?



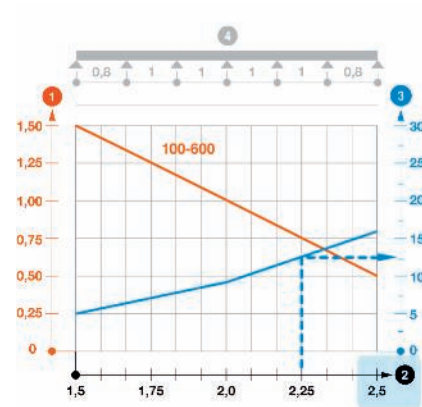
Information 3: Possible support spacings

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.

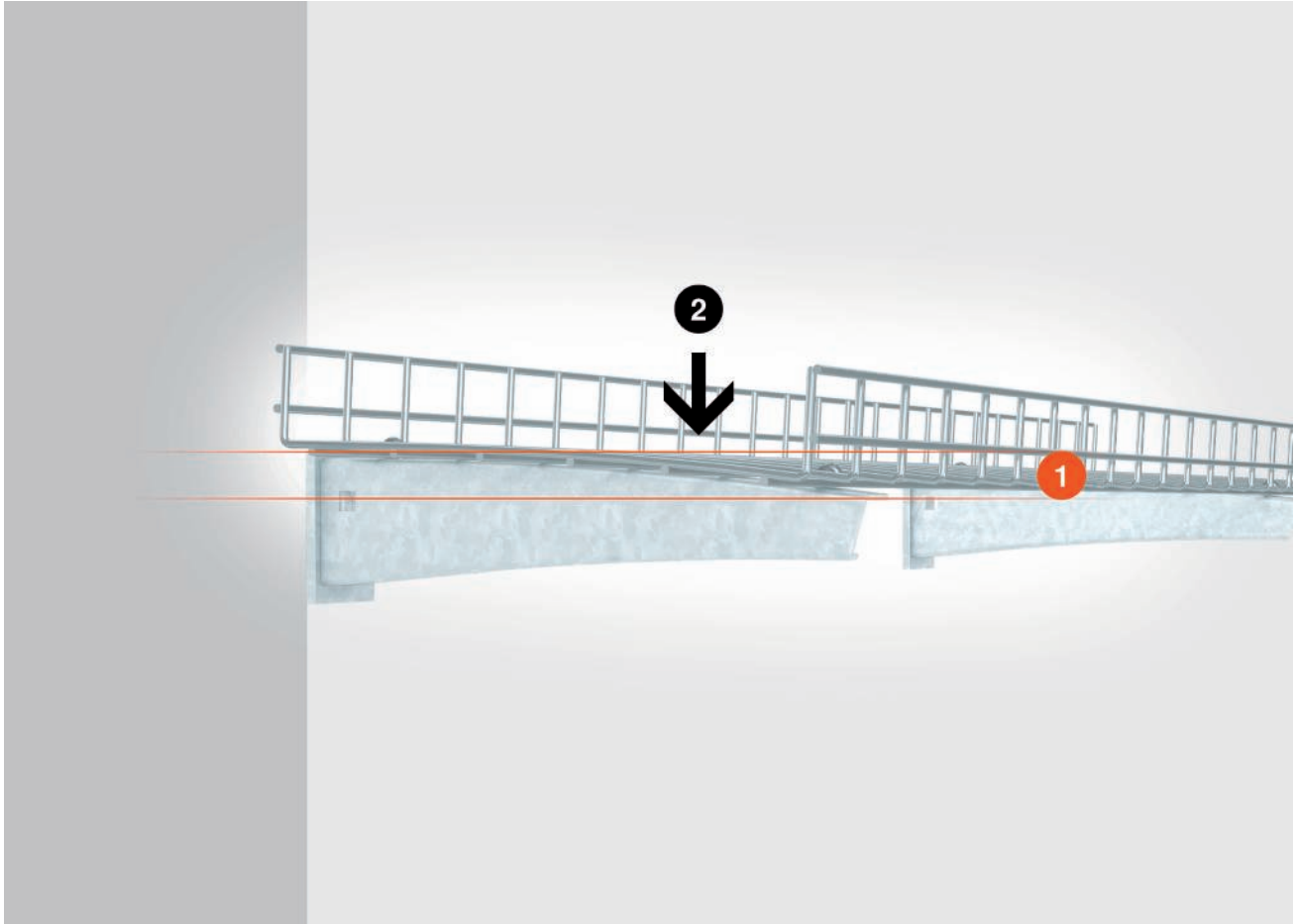


Information 5: W = Strut sag

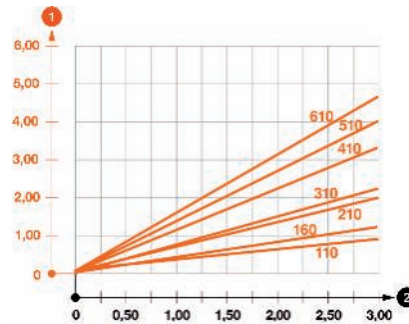
To what extent does the load on a cable tray cause the strut to bend? This information is supplied by the blue curve (w) in millimetres (orientation values on the axis on the right-hand side of the diagram).

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.

Which bracket can support which cable load?



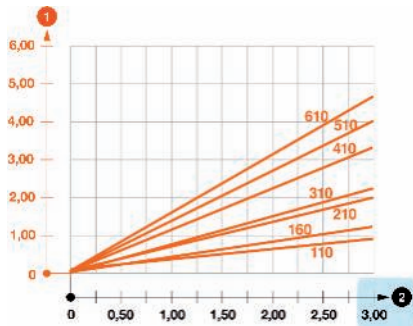
Key components of the OBO cable support systems are the installation components, in particular the brackets and suspended supports. They connect the cable trays and ladders to the wall and to the ceiling, and are thus an important construction element of the overall system. When calculating the load 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

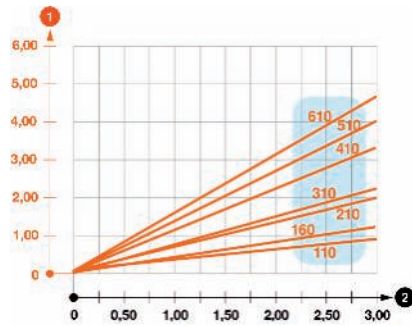
- 1 = Bend in mm at the bracket tip
- 2 = Load without man load in kN/m
- = Load curves for the various bracket lengths

Which bracket can support which cable load?



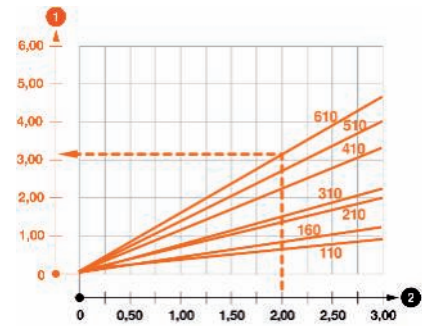
Information 1: Recommended maximum load of the brackets

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.



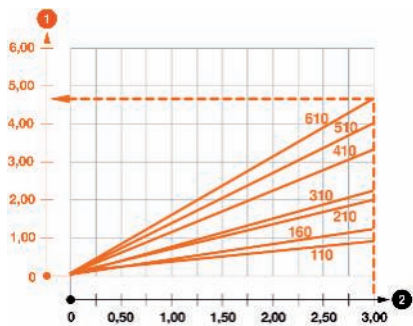
Information 2: Load curves for all bracket widths

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.

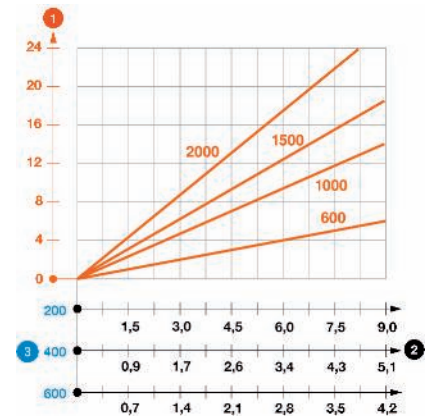
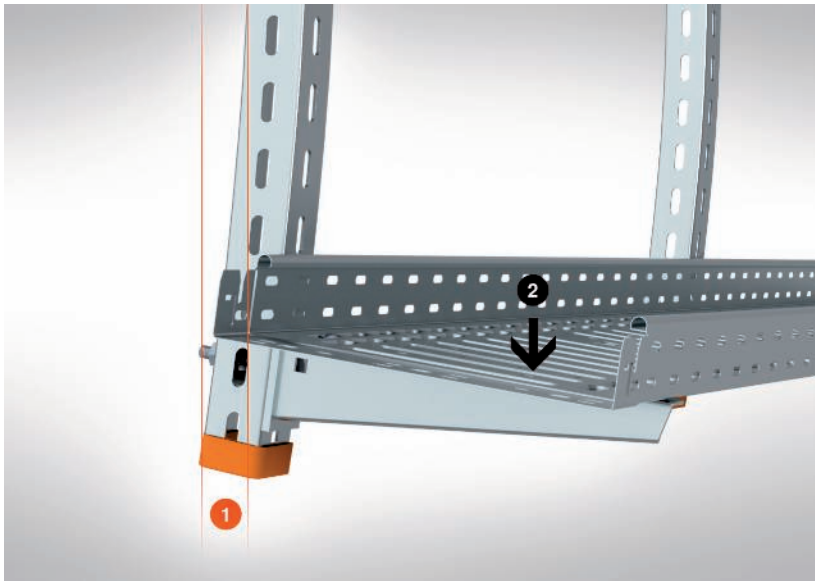


Information 4: Bending of the bracket tip at maximum load

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.

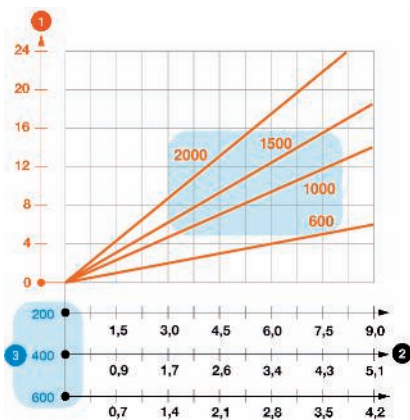


Which support can support which cable load?



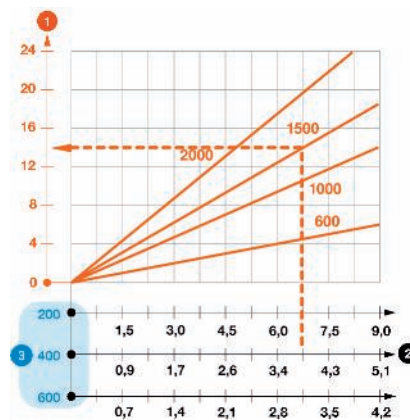
Load diagram, legend

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



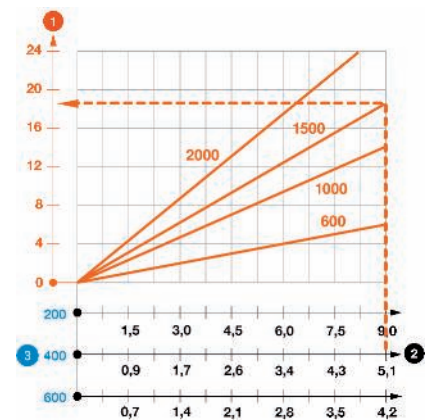
Information 1: Various support lengths and bracket widths

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.



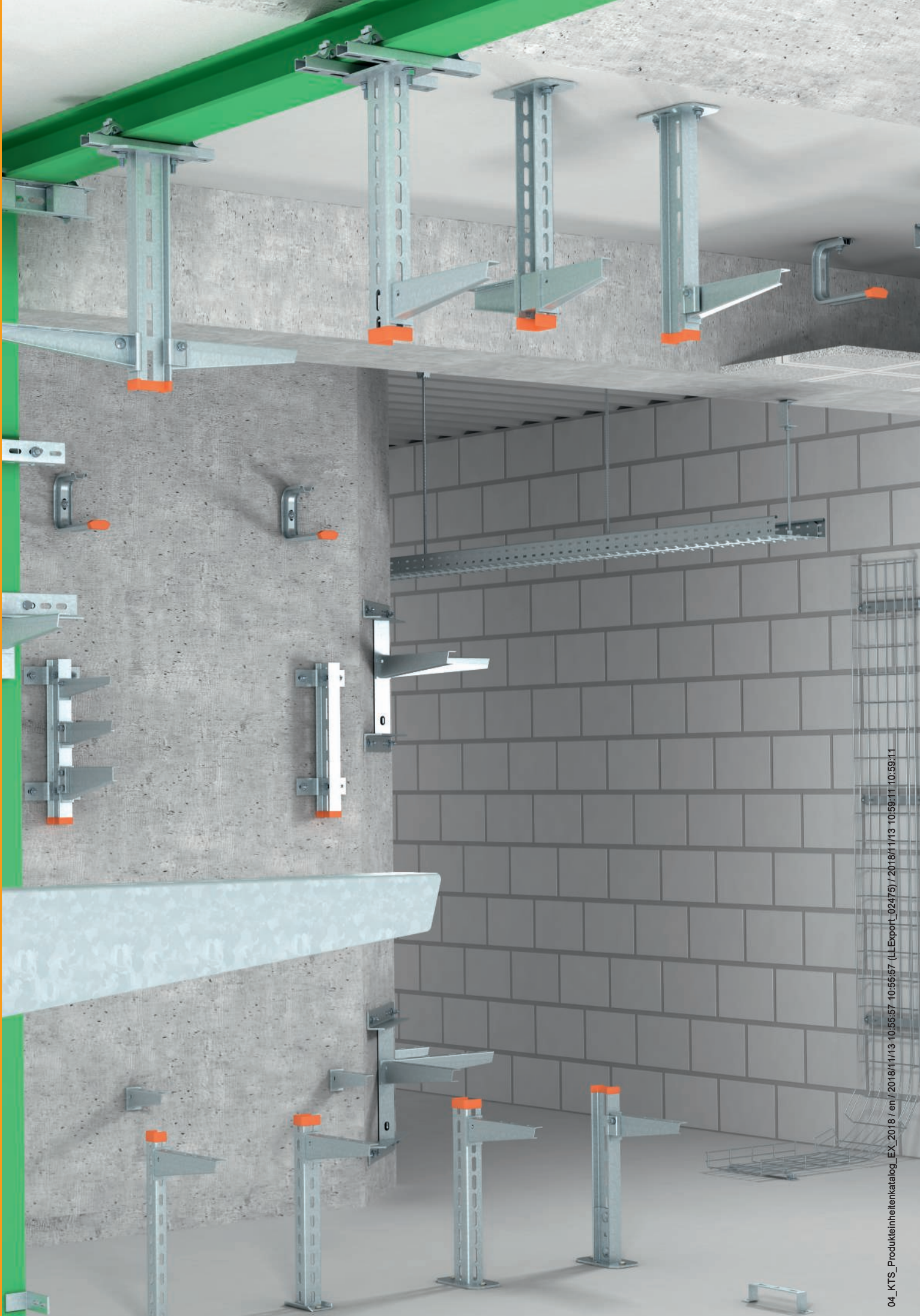
Information 2: Calculation of the deflection for the example

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.



04_KTS_Produnkteilheitenkatalog_EX_2018 / en / 2018/11/13 10:55:57 (LExport_02475) / 2018/11/13 10:59:11 10:59:11

Mounting systems

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TP wall and ceiling bracket



Type	For		F in kN		Pack. pcs.	Weight kg/100 pcs.	Item No.
	width mm	F in kN	ceiling	Wall			
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	0.35	0.45		5	93.300	6363826
TPD 545 FS	500	0.25	0.35		5	107.000	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

Si Steel

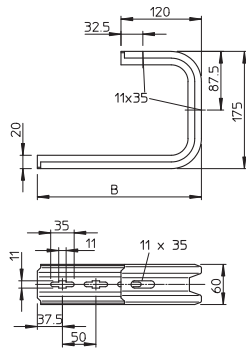
FS Strip-galvanised FT Hot-dip galvanised

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.

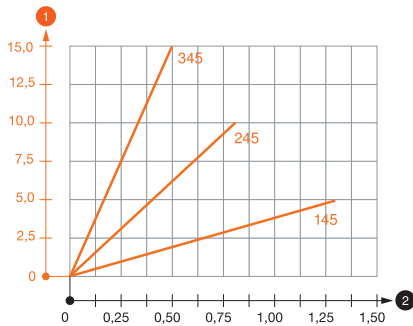
TP wall and ceiling bracket for universal use.

Dimensions



Type	Dimen-	
	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 Permitted 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					
		Max. load F [kN]					
		Bracket length [mm]					
		Anchor type	145	245	345	445	545
	BZ-U 8-30-41/95	1.00	0.70	0.50	0.40	0.30	
	BZ-U 10-30-50/110	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 8-30-41/95	1.30	0.80	0.50	0.35	0.25	
	BZ-U 10-30-50/110	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.

TP support

Type	Length mm	Pack. pcs	Weight		Item No.
			kg/100	pcs.	
TPS 445 FS	445	1	73.000		6364322
TPS 545 FS	545	1	80.000		6364349
TPS 645 FS	645	1	99.000		6364365
TPS 445 FT	445	1	75.000		6364403
TPS 545 FT	545	1	89.000		6364500
TPS 645 FT	645	1	103.000		6364608
TPS 445 A2	445	1	72.000		6364848
TPS 545 A2	545	1	85.000		6364850
TPS 645 A2	645	1	99.000		6364852

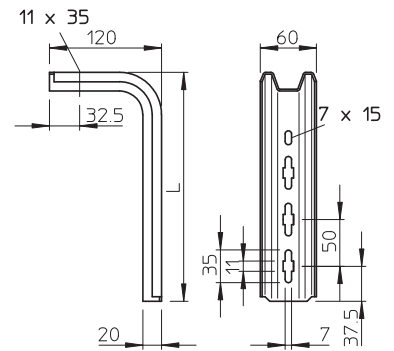
Sl Steel V2A Stainless steel, A2
 FS Strip-galvanised FT Hot-dip galvanised

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.

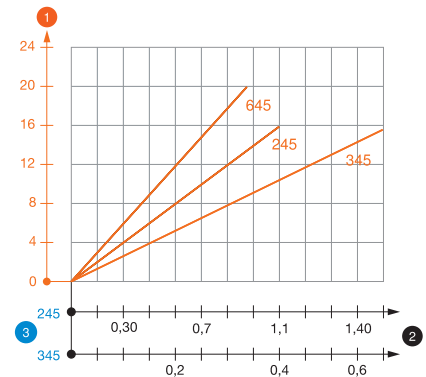
Important: only use brackets of length 345 mm or less.
 TP support for fastening to horizontal concrete ceilings.

Type	Dimension L mm
TPS 445 FS	445
TPS 545 FS	545
TPS 645 FS	645

Dimensions



Load



Load diagram, TP supports, type TPS

- 1 Bending of the end of the suspended support at permitted bracket load
- 2 Permitted 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				
Anchor type	Max. load F [kN]			Bracket width [mm]
	Bracket width [mm]			
	145	245	345	
BZ-U 8-30-41/95	1,50	1,00	0,65	0,65
BZ-U 10-30-50/110	1,50	1,50	0,65	0,65

Double-sided load				
Anchor type	Max. load F [kN]			Bracket width [mm]
	Bracket width [mm]			
	145	245	345	
BZ-U 8-30-41/95	1,50	1,50	1,20	1,20
BZ-U 10-30-50/110	1,50	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 $a_i = 17$ 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).

TP support / wall and support bracket

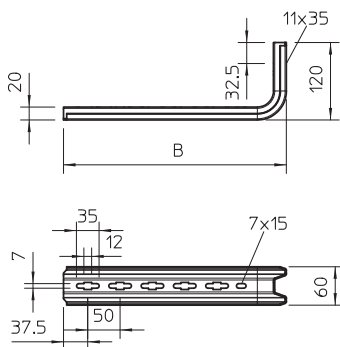


Type	For width F in kN		Pack. pcs.	Weight kg/100 pcs.		Item No.
	mm	kN				
TPSA 145 FS	100	1.5	1	32.000		6364101
TPSA 245 FS	200	0.9	1	45.000		6364209
TPSA 345 FS	300	0.55	1	59.000		6364306
TPSA 145 FT	100	1.5	1	33.000		6364659
TPSA 195 FT	150	1	1	40.000		6364683
TPSA 245 FT	200	0.9	1	47.000		6364667
TPSA 345 FT	300	0.55	1	62.000		6364675
TPSA 145 A2	100	1.5	1	32.000		6364871
TPSA 245 A2	200	0.9	1	45.000		6364876
TPSA 345 A2	300	0.55	1	59.000		6364881

St Steel V2A Stainless steel, A2
 FS Strip-galvanised FT Hot-dip galvanised

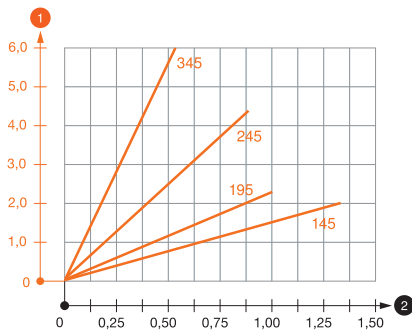
If the profile is fastened directly to the ceiling or the profile is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4. TP support/bracket for fastening to horizontal concrete ceilings and walls.

Dimensions



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

Load



Load diagram, bracket TPSA

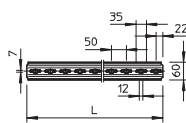
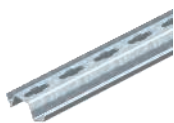
- 1 Bending of the bracket tip at permitted bracket load
- 2 Permitted bracket load in kN without man load
- Load curve with bracket lengths in mm

Characteristic anchor load values for TP bracket

Anchor type	Wall fastening			
	Max. load F [kN]			
	Bracket width [mm]			
	145	195	245	345
BZ-U 8-30-41/95	1,00	0,80	0,70	0,50
BZ-U 10-30-50/110	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).

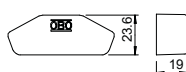
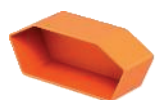
TP profile



Type	Length mm	Pack. pcs.	Weight kg/100 pcs.		Item No.
TPS 3000 FS	3000	1	441.000		6364802

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	0.569		6364625

PE Polyethylene
 End cap to cover ends of TP supports.

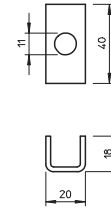
Spacer

Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
DS 4 FS	20	3.700	6416551
DS 4 FT	20	3.800	6416586
DS 4 A2	10	3.700	6416594

St Steel **V2A** Stainless steel, A2
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.

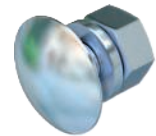
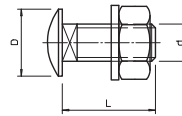


Truss-head bolt with nut and washer

Type	Dimension mm	Dimension L mm	Dimension D mm	Resistance class	Pack. pcs.	Weight kg/100 pcs.	Item No.
FRS 10x25 TPS F	M10 x 25	25	18	5.6	50	4.300	6407536
FRS 10x25 TPS A2	M10 x 25	25	18	A2-70	50	4.000	6407537

St Steel **V2A** Stainless steel, A2
F Hot-dip galvanised

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.

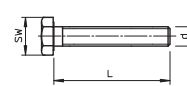


Hexagonal bolt

Type	Dimension mm	Dimension L mm	Dimension 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
F Hot-dip galvanised

Hexagonal bolt for universal fixing of structure components.

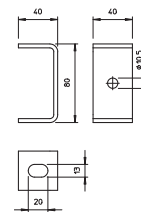


Ceiling bracket

Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
DB FT	20	16.000	6356109
DB A4	10	16.000	6356113

St Steel **V4A** Stainless steel, A4
FT Hot-dip galvanised

Ceiling bracket for threaded rod suspension.



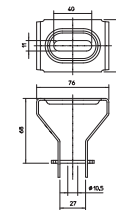
Ceiling bracket, variable

Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
DBV FS	20	18.200	6356055

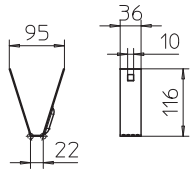
St Steel
FS Strip-galvanised

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

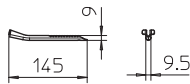


Type	Material		Pack.	Weight		Item No.
	thickness	F in kN		pcs	kg/100 pcs.	
TPB 100 FS	1.5	0.8	20	9.900		6357506
TPB 100 A2	1.5	0.8	20	9.900		6357516

St Steel **V2A** Stainless steel, A2
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

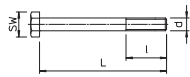


Type	Material		Pack.	Weight		Item No.
	thickness	Breaking load		pcs	kg/100 pcs.	
TPB R FS	1.5	0.8	20	3.100		6357536
TPB R A2	1.5	0.8	20	3.100		6357538

St Steel **V2A** Stainless steel, A2
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

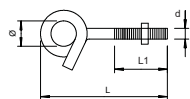


Type	Dimension	Dimen- sion L	Dimen- sion L1	Dimen- sion d	SW	Pack.	Weight		Item No.
							mm	mm	
SKS 10x110 G	M10x110	110	30	10	17	20	9.500		6418244

St Steel
G Electrogalvanised

Hexagonal bolt with washers and hexagonal nut.

Ceiling hook



Type	Thread	Dimen- sion d	Dimen- sion L	Dimen- sion L1	Dimen- sion d Ø	Breaking load	Pack.	Weight		Item No.
								mm	mm	
948 TG6	M6	6	70	46	13	1	25	5.000		3453820

St Steel
G Electrogalvanised

Tightly wound ceiling hook. Including two large washers and nuts.

Threaded rod

Type	Thread	Dimension d mm	Dimension L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TR M6 1M G	M6	6	1000	10	18.300	3141047
TR M8 1M G	M8	8	1000	10	30.000	3141128
TR M10 1M G	M10	10	1000	10	49.000	3141209
TR M12 1M G	M12	12	1000	10	62.000	3141306
TR M6 2M G	M6	6	2000	10	36.600	3141048
TR M8 2M G	M8	8	2000	10	60.000	3141136
TR M10 2M G	M10	10	2000	10	98.000	3141140
TR M12 2M G	M12	12	2000	10	140.000	3141144
TR M6 1M A2	M6	6	1000	10	18.300	3141327
TR M8 1M A2	M8	8	1000	10	30.000	3141310
TR M10 1M A2	M10	10	1000	10	49.000	3141312
TR M12 1M A2	M12	12	1000	10	70.000	3141314
TR M6 2M A2	M6	6	2000	10	36.600	3141328
TR M8 2M A2	M8	8	2000	10	60.000	3141330
TR M10 2M A2	M10	10	2000	10	98.000	3141339
TR M12 2M A2	M12	12	2000	10	140.000	3141316
TR M6 1M A4	M6	6	1000	50	18.300	3141482
TR M8 1M A4	M8	8	1000	50	30.000	3141492
TR M10 1M A4	M10	10	1000	25	49.000	3141502
TR M12 1M A4	M12	12	1000	20	70.000	3141512
TR M6 2M A4	M6	6	2000	25	36.600	3141484
TR M8 2M A4	M8	8	2000	25	60.000	3141494
TR M10 2M A4	M10	10	2000	20	98.000	3141504
TR M12 2M A4	M12	12	2000	10	140.000	3141514

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

G Electrogalvanised

Threaded rod to DIN 976.



Mounting systems

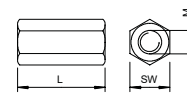
Connection sleeve

Type	Thread	Dimension L mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
CSTR M8 G	M8	30	13	50	2.000	6410081
CSTR M10 G	M10	40	17	50	6.000	6410103
CSTR M12 G	M12	40	19	25	7.000	6410111
CSTR M8 A2	M8	30	13	50	2.000	6410154
CSTR M10 A2	M10	40	17	50	6.000	6410162

St Steel V2A Stainless steel, A2

G Electrogalvanised

Connection sleeve with continuous internal thread.



Central hanger for cable tray, side height 35 mm

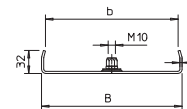
Type	For width mm	For threaded rod	Dimension B mm	Dimension b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MAH 35 100 FS	100	M10	95	84	20	9.400	6358690
MAH 35 200 FS	200	M10	195	184	20	18.600	6358692
MAH 35 300 FS	300	M10	295	284	20	27.700	6358694

St Steel

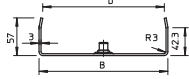
FS Strip-galvanised

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.



Central hanger for cable tray, side height 60 mm



Type	For width mm	For threaded rod	Dimension B mm	Dimension b mm	F in 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

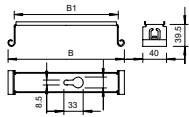
St Steel

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.

Central hanger for cable tray



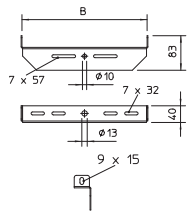
Type	For width mm	Dimension B mm	Dimension B1 mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
MAH 050 FS	50	47	26	50	5.000	6358500
MAH 075 FS	75	72	51	50	6.500	6358510
MAH 100 FS	100	97	76	50	7.500	6358527
MAH 150 FS	150	147	126	50	8.000	6358535
MAH 200 FS	200	197	176	50	12.500	6358543

St Steel

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

FS Strip-galvanised **FT** Hot-dip galvanised

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

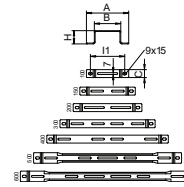
Universal central suspension for fastening to threaded rods and supports.

Stand-off bracket

Type	Dimension B mm	Pack. pcs	Weight		Item No.
			kg/100	pcs.	
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	
DBL 50 100 A4	100	10	15.500	6015630	
DBL 50 200 A4	200	10	22.800	6015632	
DBL 50 300 A4	300	10	36.900	6015633	
DBL 50 400 A4	400	10	46.300	6015634	

St Steel V4A Stainless steel, A4
FS Strip-galvanised FT Hot-dip galvanised

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



Mounting systems

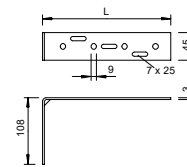


Wall bracket

Type	Dimension L mm	F in kN kN	Pack. pcs	Weight		Item No.
				kg/100	pcs.	
WW 100 15 FS	158	0.12	25	25.000	6015360	
WW 100 20 FS	208	0.09	25	30.000	6015379	

St Steel
FS Strip-galvanised

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

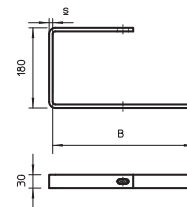


Ceiling bracket

Type	For width mm	Dimension B mm	Hole Ø mm	F in kN kN	Pack. pcs	Weight		Item No.
						kg/100	pcs.	
AHB 100 FT	100	115	11	0.6	1	54.000	6363903	
AHB 150 FT	150	165	11	0.6	1	87.000	6363907	
AHB 200 FT	200	215	11	0.6	1	101.000	6363911	
AHB 300 FT	300	315	11	0.35	1	130.000	6363938	
AHB 400 FT	400	415	11	0.2	1	157.000	6363946	
AHB 100 A4	100	115	11	0.6	1	53.000	6363905	
AHB 150 A4	150	165	11	0.6	1	86.000	6363909	
AHB 200 A4	200	215	11	0.6	1	100.000	6363913	
AHB 300 A4	300	315	11	0.35	1	128.000	6363940	
AHB 400 A4	400	415	11	0.3	1	155.000	6363948	

St Steel V4A Stainless steel, A4
FT Hot-dip galvanised

Ceiling bracket for cable support systems.

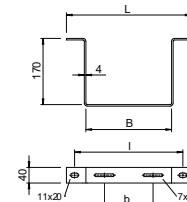


Suspension clamp for tunnel

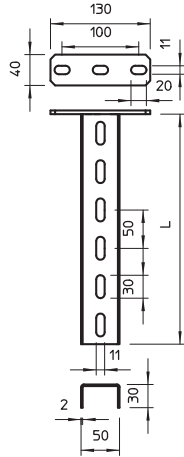
Type	Dimension B mm	Dimension L mm	Dimension b mm	Dimension l mm	Pack. pcs	Weight		Item No.
						kg/100	pcs.	
AHB-T1712 VA4547	120	220	25	180	16	67.000	6363997	
AHB-T1722 VA4547	220	320	125	280	14	78.000	6364007	
AHB-T1732 VA4547	320	420	225	380	11	91.000	6364017	

V5A Stainless steel, S31254

Special suspension clamp for cable support systems in tunnels. Additional variants, such as adapter or connection clamps, as well as various head shapes, on request.



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

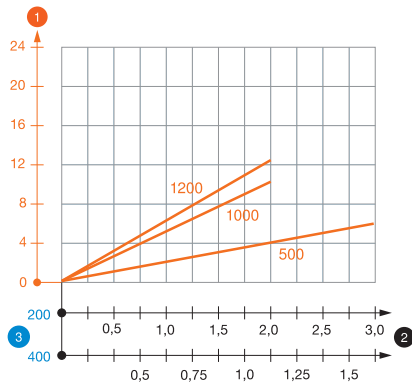
SI Steel

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



Load diagram, U support, type US 3 K

- 1 Bending of the end of the suspended support at permitted bracket load
 - 2 Permitted bracket load in kN without man load
 - 3 Bracket length in mm
- Load curves with support lengths in mm

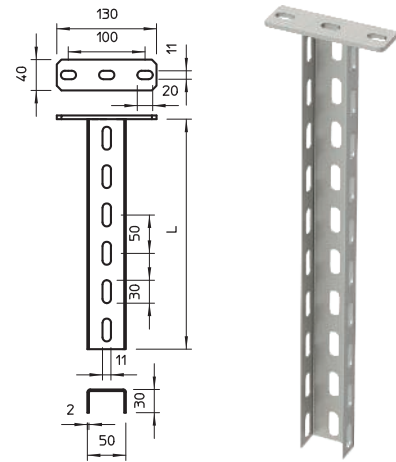
Characteristic anchor load values for US 3 K suspended support

Single-sided load					
Anchor type	Max. load F [kN]				
	Bracket width [mm]				
BZ-U 8-10-21/75	110	210	310	410	0,90
BZ-U 10-10-30/90	3,50	2,70	2,00	1,75	1,75

Double-sided load					
Anchor type	Max. load F [kN]				
	Bracket width [mm]				
BZ-U 8-10-21/75	110	210	310	410	2,50
BZ-U 10-10-30/90	5,50	5,80	5,00	4,50	4,50

Max. total load F = cable weight + cable tray + bracket + support. The tabular values for double-sided loads take the available axis spacing $a_i = 10$ 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).

US 3 support



Type	Length mm	Material thickness mm	Tensile load kN	Pack. pcs	Weight kg/100 pcs	Item No.
US 3 K 20 A2	200	2	5	1	44.000	6342401
US 3 K 30 A2	300	2	5	1	58.000	6342403
US 3 K 40 A2	400	2	5	1	71.000	6342405
US 3 K 50 A2	500	2	5	1	84.000	6342407
US 3 K 60 A2	600	2	5	1	97.000	6342409
US 3 K 70 A2	700	2	5	1	110.000	6342411
US 3 K 80 A2	800	2	5	1	123.000	6342413
US 3 K 90 A2	900	2	5	1	137.000	6342415
US 3 K 100 A2	1000	2	5	1	150.000	6342417
US 3 K 20 A4	200	2	5	1	44.000	6342375
US 3 K 30 A4	300	2	5	1	58.000	6342530
US 3 K 40 A4	400	2	5	1	71.000	6342379
US 3 K 50 A4	500	2	5	1	84.000	6342381
US 3 K 60 A4	600	2	5	1	97.000	6342389
US 3 K 70 A4	700	2	5	1	110.000	6342391
US 3 K 80 A4	800	2	5	1	123.000	6342393
US 3 K 90 A4	900	2	5	1	137.000	6342395
US 3 K 100 A4	1000	2	5	1	150.000	6342397
US 3 K 110 A4	1100	2	5	1	166.000	6342396
US 3 K 120 A4	1200	2	5	1	110.000	6342398

V2A Stainless steel, A2 V4A Stainless steel, A4

GB Stained

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

Load diagram, U support, type US 3 K

- 1 Bending of the end of the suspended support at permitted bracket load
 - 2 Permitted bracket load in kN without man load
 - 3 Bracket length in mm
- Load curves with support lengths in mm

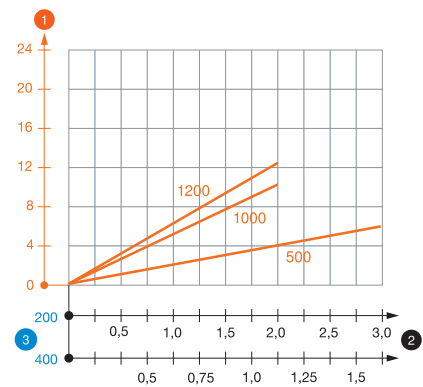
Characteristic anchor load values for US 3 K suspended support

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 + 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).

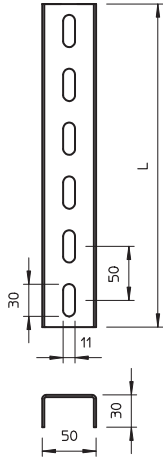
Load



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U support system US 3

US 3 support



Type	Length mm	Material thickness mm	Weight		Item No.
			Pack. pcs.	kg/100 pcs.	
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
US 3 30 A2	300	2	1	40.000	6342455
US 3 50 A2	500	2	1	66.000	6342457
US 3 100 A2	1000	2	1	132.000	6342460
US 3 150 A2	1500	2	1	198.000	6342463
US 3 200 A2	2000	2	1	263.000	6342466
US 3 600 A2	6000	2	1	790.000	6342468
US 3 30 A4	300	2	1	40.000	6342485
US 3 50 A4	500	2	1	66.000	6342488
US 3 100 A4	1000	2	1	132.000	6342491
US 3 150 A4	1500	2	1	198.000	6342494
US 3 200 A4	2000	2	1	263.000	6342497
US 3 600 A4	6000	2	1	790.000	6342505

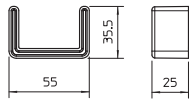
SI Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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.

End cap

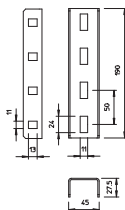


Type	Colour	Weight		Item No.
		Pack. pcs.	kg/100 pcs.	
US 3 KS OR	Pastel orange	20	1.068	6338458

PE Polyethylene

End cap to cover the ends of US 3 supports.

U support connector



Type	Weight		Item No.
	Pack. pcs.	kg/100 pcs.	
VUS 3 FT	10	48.000	6018513
VUS 3 A2	1	25.600	6018517
VUS 3 A4	1	48.000	6018520

SI Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FT Hot-dip galvanised

Including appropriate fastening material.

U support connector to connect US 3 supports.

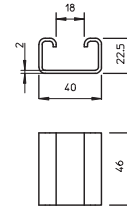
Spacer

Type	Pack. pcs	Weight kg/100 pcs	Item No.
DSK 25 A2	10	7.500	6416448
DSK 25 FT	20	7.500	6416446
DSK 25 A4	10	7.500	6416450

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FT Hot-dip galvanised

Spacer for use in U 3 supports.



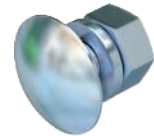
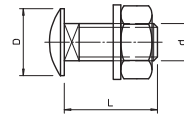
Truss-head bolt with nut and washer

Type	Dimension mm	Dimension L mm	Dimension D mm	Resistance class	Pack. pcs	Weight kg/100 pcs	Item No.
FRS 10x25 F 8.8	M10 x 25	25	24	8.8	50	4.500	6407560
FRS 10x25 A2	M10 x 25	25	24	A2-70	50	4.500	6406718
FRS 10x25 A4	M10 x 25	25	24	A4-70	50	4.500	6407524

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

F Hot-dip galvanised

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.



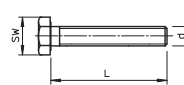
Hexagonal bolt

Type	Dimension mm	Dimension L mm	Dimension 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 10x90 A2	M10 x 90	90	10	17	20	10.038	6418255
SKS 10x80 A4	M10 x 80	80	10	17	20	7.800	6418248
SKS 10x90 A4	M10 x 90	90	10	17	20	7.800	6418256

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

F Hot-dip galvanised

Hexagonal bolt for universal fixing of structure components.



Head plate

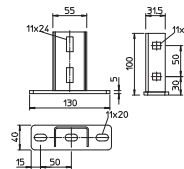
Type	Pack. pcs	Weight kg/100 pcs	Item No.
KU 3 FT	10	46.800	6348874
KU 3 A4	10	41.000	6348877

St Steel V4A Stainless steel, A4

GB Stained 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.



Head plate, variable

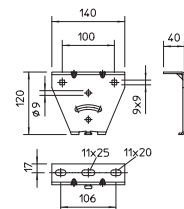
Type	Pack. pcs	Weight kg/100 pcs	Item No.
KU 3 V FS	20	40.000	6348881
KU 3 V FT	20	41.300	6348883
KU 3 V A2	20	40.000	6348884
KU 3 A2	10	41.000	6348876

St Steel V2A Stainless steel, A2

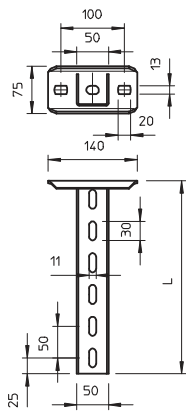
FS Strip-galvanised GB Stained FT Hot-dip galvanised

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.



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

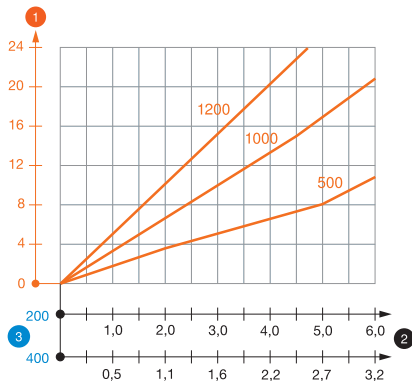
SI Steel

FT Hot-dip galvanized

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 Permitted 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 10-10-30/90	3,75	2,75	2,20	1,80		
BZ 12-15-35/110	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 10-10-30/90	5,50	5,80	5,00	4,50	3,80	1,75
BZ 12-15-35/110	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 $a_i = 10$ 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).

US 5 support



Type	Length mm	Material thickness mm	Tensile load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 K 20 A2	200	2.5	10	1	100.000	6341358
US 5 K 30 A2	300	2.5	10	1	125.000	6341362
US 5 K 40 A2	400	2.5	10	1	150.000	6341366
US 5 K 50 A2	500	2.5	10	1	175.000	6341370
US 5 K 60 A2	600	2.5	10	1	200.000	6341374
US 5 K 70 A2	700	2.5	10	1	225.000	6341378
US 5 K 80 A2	800	2.5	10	1	255.000	6341382
US 5 K 90 A2	900	2.5	10	1	280.000	6341386
US 5 K 100 A2	1000	2.5	10	1	300.000	6341390
US 5 K 110 A2	1100	2.5	10	1	330.000	6341394
US 5 K 120 A2	1200	2.5	10	1	360.000	6341398
US 5 K 20 A4	200	2.5	10	1	100.000	6341209
US 5 K 30 A4	300	2.5	10	1	125.000	6341213
US 5 K 40 A4	400	2.5	10	1	150.000	6341217
US 5 K 50 A4	500	2.5	10	1	175.000	6341221
US 5 K 60 A4	600	2.5	10	1	180.000	6341225
US 5 K 70 A4	700	2.5	10	1	225.000	6341228
US 5 K 80 A4	800	2.5	10	1	255.000	6341233
US 5 K 90 A4	900	2.5	10	1	280.000	6341237
US 5 K 100 A4	1000	2.5	10	1	300.000	6341241
US 5 K 110 A4	1100	2.5	10	1	360.000	6341245
US 5 K 120 A4	1200	2.5	10	1	360.000	6341249

V2A Stainless steel, A2 V4A Stainless steel, A4

GB Stained

Suspended support (U profile) with welded head plate.

Load diagram, U support, type US 5 K VA

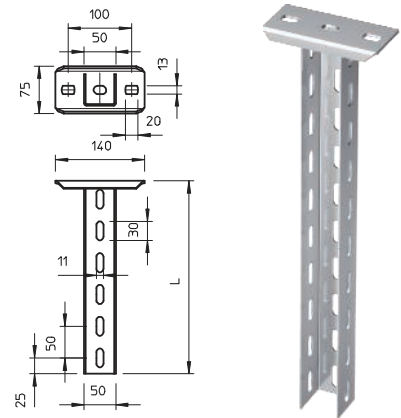
- 1 Bending of the end of the suspended support at permitted bracket load
 - 2 Permitted bracket load in kN without man load
 - 3 Bracket length in mm
- Load curves with support lengths in mm

Characteristic anchor load values for US 5 K support

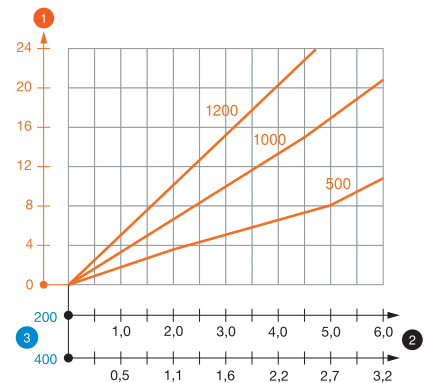
Single-sided load					
Anchor type	Max. load F [kN]				
	Bracket width [mm]				
	110	210	310	410	410
BZ-U 10-10/90	3,75	2,75	2,20	1,80	1,80
BZ 70 M12-15/110	5,75	4,75	3,85	3,25	3,25

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).



Load

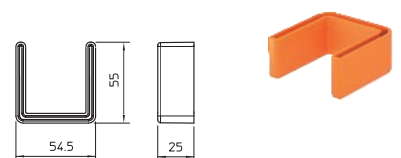


End cap

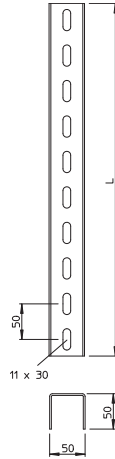
Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 KS OR	Pastel orange	20	1.300	6338462

PE Polyethylene

End cap to cover the ends of US 5 supports.



US 5 support

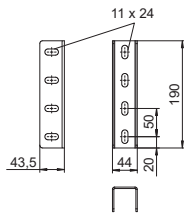


Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 20 FT	200	2.5	1	51.000	6340881
US 5 30 FT	300	2.5	1	79.000	6340903
US 5 40 FT	400	2.5	1	106.000	6340911
US 5 50 FT	500	2.5	1	133.000	6340938
US 5 60 FT	600	2.5	1	160.000	6340946
US 5 70 FT	700	2.5	1	175.000	6340950
US 5 80 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
US 5 20 A2	200	2.5	1	48.000	6341101
US 5 30 A2	300	2.5	1	72.000	6341105
US 5 40 A2	400	2.5	1	97.000	6341109
US 5 50 A2	500	2.5	1	121.000	6341113
US 5 70 A2	700	2.5	1	169.000	6341121
US 5 80 A2	800	2.5	1	193.000	6341125
US 5 90 A2	900	2.5	1	217.000	6341129
US 5 100 A2	1000	2.5	1	242.000	6341133
US 5 110 A2	1100	2.5	1	266.000	6341137
US 5 120 A2	1200	2.5	1	290.000	6341141
US 5 300 A2	3000	2.5	1	726.000	6341152
US 5 30 A4	300	2.5	1	73.000	6341053
US 5 40 A4	400	2.5	1	97.000	6341055
US 5 50 A4	500	2.5	1	121.000	6341057
US 5 60 A4	600	2.5	1	145.000	6341059
US 5 80 A4	800	2.5	1	193.000	6341063
US 5 90 A4	900	2.5	1	217.000	6341065
US 5 300 A4	3000	2.5	1	726.000	6341073

St Steel
 V2A Stainless steel, A2
 V4A Stainless steel, A4
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

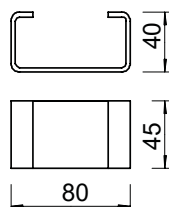


Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VUS 5 FT	10	44.000	6018505

St Steel
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	18.000	6416500
DSK 45 A2	10	15.000	6416489
DSK 45 A4	10	15.000	6416462

St Steel
 V2A Stainless steel, A2
 V4A Stainless steel, A4
FT Hot-dip galvanised

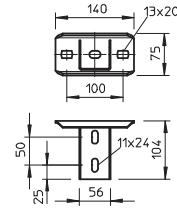
For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the hexagonal bolts.
 Spacer for use in U 5 support and in the head plate, type KU 7 VQP.

Head plate for US 5 support

Type	Pack. pcs	Weight kg/100 pcs	Item No.
KUS 5 FT	10	61.000	6348904

- St Steel
- FT Hot-dip galvanised

When installing the head plate, please use the spacer, type DSK 45.
Head plate for installation in US 5 support.

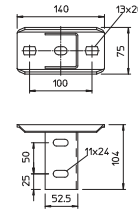


Head plate US 5 NOK

Type	Pack. pcs	Weight kg/100 pcs	Item No.
KUS 5 NOK FT	10	75.000	6348939
KUS 5 NOK A2	10	61.000	6348947

- St Steel
- V2A Stainless steel, A2
- GB Stained
- FT Hot-dip galvanised

When installing the head plate, please use the spacer, type DSK 45.
Head plate with U support mounting rotated 90°.

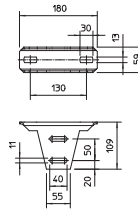


Head plate for US 5 support, variable

Type	Pack. pcs	Weight kg/100 pcs	Item No.
KU 5 V FT	4	82.000	6348920
KU 5 V A2	4	81.000	6348925

- St Steel
- V2A Stainless steel, A2
- 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.

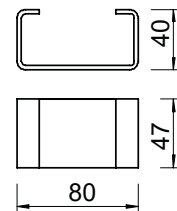


Spacer

Type	Pack. pcs	Weight kg/100 pcs	Item No.
DSK 47 FT	20	19.000	6416504
DSK 47 A2	10	16.000	6416507
DSK 47 A4	10	16.000	6416511

- St Steel
- V2A Stainless steel, A2
- V4A Stainless steel, A4
- 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.

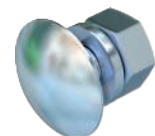
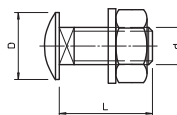


Truss-head bolt with nut and washer

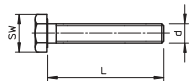
Type	Dimension mm	Dimension L mm	Dimension D mm	Resistance class	Pack. pcs	Weight kg/100 pcs	Item No.
FRS 10x25 F 8.8	M10 x 25	25	24	8.8	50	4.500	6407560
FRS 10x25 A2	M10 x 25	25	24	A2-70	50	4.500	6406718
FRS 10x25 A4	M10 x 25	25	24	A4-70	50	4.500	6407524

- St Steel
- V2A Stainless steel, A2
- V4A Stainless steel, A4
- F Hot-dip galvanised

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



Hexagonal bolt



Type	Dimension mm	Dimen- sion L mm	Dimen- sion 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	M10 x 120	120	10	17	20	13.500	3160793
SKS 10x90 A2	M10 x 90	90	10	17	20	10.038	6418255
SKS 10x80 A4	M10 x 80	80	10	17	20	7.800	6418248
SKS 10x90 A4	M10 x 90	90	10	17	20	7.800	6418256

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4

F Hot-dip galvanised

Hexagonal bolt for universal fixing of structure components.

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	177.000	6339018
US 7 K 30 FT	300	4	11	1	218.000	6339034
US 7 K 40 FT	400	4	11	1	261.000	6339050
US 7 K 50 FT	500	4	11	1	302.000	6339077
US 7 K 60 FT	600	4	11	1	344.000	6339093
US 7 K 70 FT	700	4	11	1	387.000	6339115
US 7 K 80 FT	800	4	11	1	418.000	6339131
US 7 K 90 FT	900	4	11	1	470.000	6339166
US 7 K 100 FT	1000	4	11	1	499.000	6339182
US 7 K 110 FT	1100	4	11	1	550.000	6339190
US 7 K 120 FT	1200	4	11	1	591.000	6339204
US 7 K 130 FT	1300	4	11	1	636.000	6339212
US 7 K 140 FT	1400	4	11	1	675.000	6339220
US 7 K 150 FT	1500	4	11	1	718.000	6339239
US 7 K 160 FT	1600	4	11	1	760.000	6339247
US 7 K 170 FT	1700	4	11	1	802.000	6339255
US 7 K 180 FT	1800	4	11	1	843.000	6339263
US 7 K 190 FT	1900	4	11	1	884.000	6339271
US 7 K 200 FT	2000	4	11	1	927.000	6339298

St Steel

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

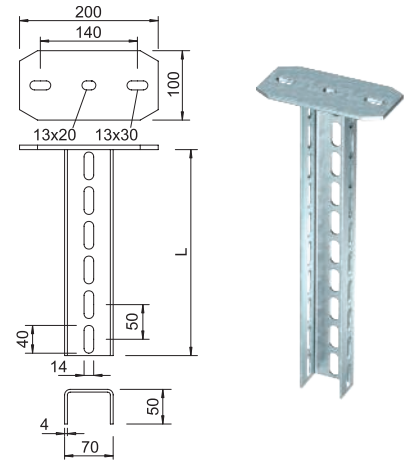
- 1 Bending of the end of the suspended support at permitted bracket load
 - 2 Permitted bracket load in kN without man load
 - 3 Bracket length in mm
- Load curves with support lengths in mm

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

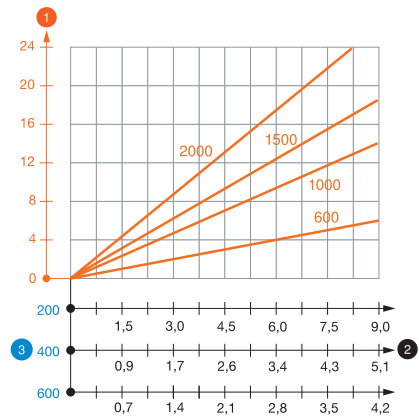
		Single-sided load						
		Max. load F [kN]						
		Bracket width [mm]						
Anchor type		110	210	310	410	510	610	
	BZ-U 10-10-30/90	4,25	3,25	2,50	2,25	2,00	1,75	
	BZ 12-15-35/110	7,25	5,50	4,50	4,00	3,50	3,00	

		Double-sided load						
		Max. load F [kN]						
		Bracket width [mm]						
Anchor type		110	210	310	410	510	610	
	BZ-U 10-10-30/90	7,25	6,25	5,75	5,25	4,80	4,50	
	BZ 12-15-35/110	11,00	11,00	10,00	9,00	8,50	8,00	

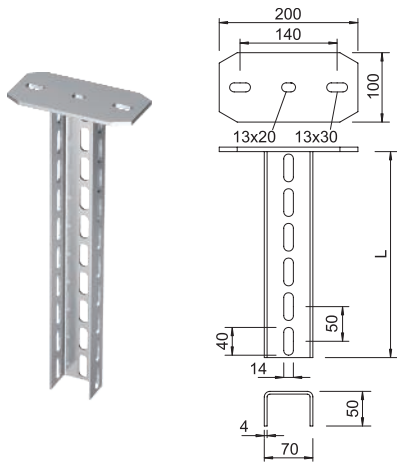
Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing $a_i = 14$ cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete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



Load



US 7 support



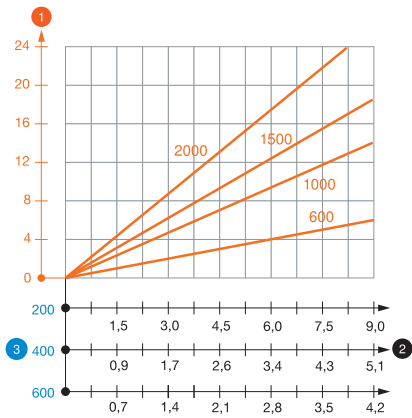
Type	Length mm	Material thickness mm	Tensile load kN	Pack. pcs.	Weight kg/100 pcs.	Item No.
US 7 K 20 A2	200	4	11	1	173.000	6338607
US 7 K 30 A2	300	4	11	1	213.000	6338615
US 7 K 40 A2	400	4	11	1	256.000	6338623
US 7 K 50 A2	500	4	11	1	296.000	6338631
US 7 K 60 A2	600	4	11	1	337.000	6338658
US 7 K 70 A2	700	4	11	1	377.000	6338666
US 7 K 80 A2	800	4	11	1	410.000	6338674
US 7 K 90 A2	900	4	11	1	459.000	6338682
US 7 K 100 A2	1000	4	11	1	491.000	6338690
US 7 K 110 A2	1100	4	11	1	531.000	6338704
US 7 K 120 A2	1200	4	11	1	571.000	6338712
US 7 K 140 A2	1400	4	11	1	650.000	6338739
US 7 K 150 A2	1500	4	11	1	690.000	6338747
US 7 K 200 A2	2000	4	11	1	889.000	6338801
US 7 K 100 A4	1000	4	11	1	500.000	6338872
US 7 K 200 A4	2000	4	11	1	905.000	6338881

V2A Stainless steel, A2 V4A Stainless steel, A4

GB Stained

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 Permitted bracket load in kN without man load
 - 3 Bracket length in mm
- Load curves with support lengths in mm

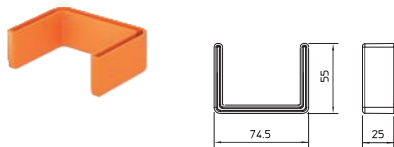
Characteristic anchor load values for U support, type US 7 K

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 $a_i = 14$ 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	1.806	6338497
PE	Polyethylene			

End cap to cover the ends of US 7 supports.

US 7 support

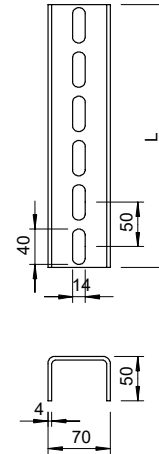
Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 7 20 FT	200	4	1	81.000	6340016
US 7 30 FT	300	4	1	121.000	6340032
US 7 40 FT	400	4	1	166.000	6340059
US 7 50 FT	500	4	1	208.000	6340075
US 7 60 FT	600	4	1	249.000	6340091
US 7 70 FT	700	4	1	290.000	6340113
US 7 80 FT	800	4	1	323.000	6340148
US 7 90 FT	900	4	1	370.000	6340164
US 7 100 FT	1000	4	1	416.000	6340180
US 7 110 FT	1100	4	1	457.000	6340199
US 7 120 FT	1200	4	1	484.000	6340202
US 7 130 FT	1300	4	1	540.000	6340210
US 7 140 FT	1400	4	1	580.000	6340229
US 7 150 FT	1500	4	1	620.000	6340237
US 7 160 FT	1600	4	1	660.000	6340245
US 7 170 FT	1700	4	1	686.000	6340253
US 7 180 FT	1800	4	1	750.000	6340261
US 7 190 FT	1900	4	1	790.000	6340288
US 7 200 FT	2000	4	1	807.000	6340296
US 7 300 FT	3000	4	1	1,250.000	6340377
US 7 400 FT	4000	4	1	1,660.000	6340393
US 7 600 FT	6000	4	1	2,490.000	6340318
US 7 50 A2	500	4	1	202.000	6341764
US 7 100 A2	1000	4	1	406.000	6341810
US 7 150 A2	1500	4	1	608.000	6341861
US 7 200 A2	2000	4	1	811.000	6341950
US 7 300 A2	3000	4	1	1,216.000	6341969
US 7 600 A2	6000	4	1	2,433.000	6341993
US 7 600 A4	6000	4	1	2,433.000	6341995

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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

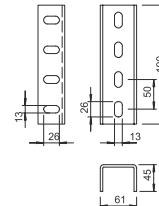
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VUS 7 FT	10	113.400	6018378
VUS 7 A2	1	110.000	6018408

St Steel V2A Stainless steel, A2

FT Hot-dip galvanised

Including appropriate fastening material.

U support connector to connect US 7 supports.



Spacer

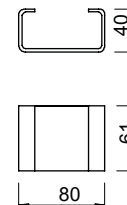
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DSK 61 FT	20	25.000	6416519
DSK 61 A2	10	21.000	6416527
DSK 61 A4	10	21.000	6416533

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

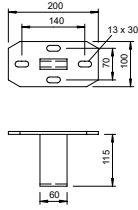
FT Hot-dip galvanised

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 for US 7 support



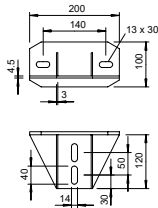
Type
KU 7 FT

St Steel
FT Hot-dip galvanised

Please order fastening material (two hexagonal bolts SKS 12 x 100) separately.
Light-duty head plate for mounting on US 7 support.

Pack. pcs.	Weight kg/100 pcs.	Item No.
10	148.000	6349102

Head plate, heavy-duty



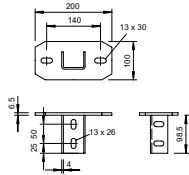
Type
KU 7 NOX FT

St Steel
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.

Pack. pcs.	Weight kg/100 pcs.	Item No.
1	184.000	6349056

Head plate, heavy-duty



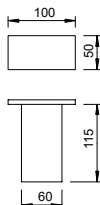
Type
KUS 7 A2

V2A Stainless steel, A2
GB Stained

Please order fastening material (two truss-head bolts FRS 12 x 25) separately.
Heavy-duty head plate for installation in US 7 supports.

Pack. pcs.	Weight kg/100 pcs.	Item No.
10	140.000	6349277

Head plate for welding



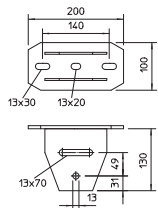
Type
KU 7 AOX FT

St Steel
FT Hot-dip galvanised

Please order fastening material (two hexagonal bolts SKS 12 x 100) separately.
Head plate for US 7 support for welding on steel girder.

Pack. pcs.	Weight kg/100 pcs.	Item No.
1	82.000	6349218

Head plate for US 7 support, variable



Type
KU 7 VQP FT

KU 7 VQP A2

St Steel V2A Stainless steel, A2
GB Stained 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.

Pack. pcs.	Weight kg/100 pcs.	Item No.
10	181.600	6349153
1	180.700	6349196

Spacer

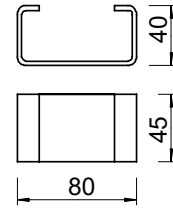
Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
DSK 45 FT	20	18.000	6416500
DSK 45 A2	10	15.000	6416489
DSK 45 A4	10	15.000	6416462

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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 support and in the head plate, type KU 7 VQP.



Adapter head plate, symmetrical

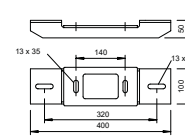
Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
KA-SY FT	1	277.000	6346804

St Steel

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.



Adapter head plate, asymmetrical

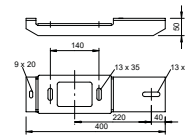
Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
KA-ASY FT	1	280.000	6346820

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.



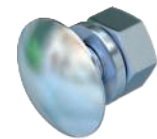
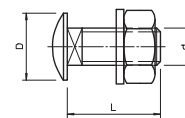
Truss-head bolt with nut and washer

Type	Dimension mm	Dimension L mm	Dimension D mm	Resistance class	Pack. pcs.	Weight kg/100 pcs.	Item No.
FRS 12x25 F	M12 x 25	25	30	—	10	6.400	6406254
FRS 12x25 A2	M12 x 25	25	30	A2-70	25	6.400	6406750

St Steel V2A Stainless steel, A2

F Hot-dip galvanised

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



Hexagonal bolt

Type	Dimension mm	Dimension L mm	Dimension d mm	SW mm	Resistance class	Pack. pcs.	Weight kg/100 pcs.	Item No.
SKS 12x80 F	M12 x 80	80	12	19	—	20	11.800	6418287
SKS 12x100 F	M12 x 100	100	12	19	—	20	12.600	6418295
SKS 12x110 F	M12 x 110	110	12	19	—	20	14.500	6418317
SKS 12x130 F	M12 x 130	130	12	19	—	20	15.500	6408478
SKS 12x80 A2	M12 x 80	80	12	19	A2-70	20	11.800	6418279
SKS 12x100 A2	M12 x 100	100	12	19	A2-70	20	12.000	6418368
SKS 12x110 A2	M12 x 110	110	12	19	A2-70	20	14.500	6418376

St Steel V2A Stainless steel, A2

F Hot-dip galvanised

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



Wall and support bracket MWA 12



Type	Width F in kN		Weight		Item No.
	mm	kN	Pack. pcs.	kg/100 pcs.	
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

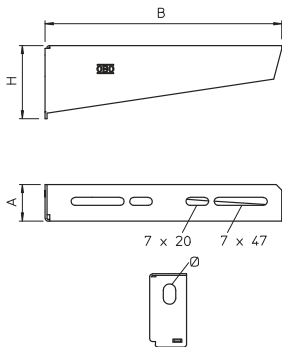
Sl Steel

FS Strip-galvanised

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

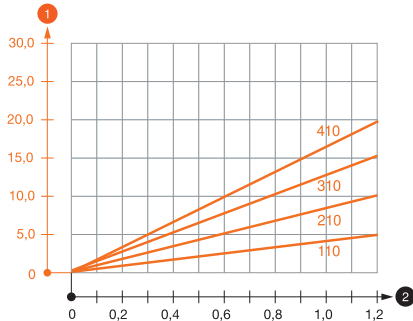
Light-duty wall and support bracket.

Dimensions



Type	Dimension B mm	Dimension A mm	Dimension H mm	Hole Ø mm	Di-
					men-
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 Permitted 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				
Anchor type	Max. load F [kN]			
	Bracket width [mm]			
	110	210	310	410
BZ-U 8-10-21/75	1,20	0,95	0,70	0,65
BZ-U 10-10-30/90	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				
Support	Bracket length in mm			
	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

Wall and support bracket MWAM 12

Type	Width F in kN		Pack. pcs.	Weight	
	mm	kN		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

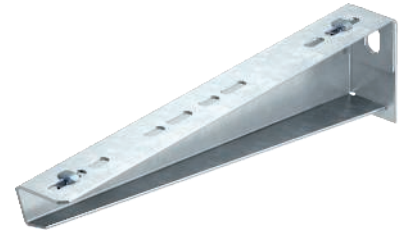
St Steel

FS Strip-galvanised

Wall and support bracket MWAM.. including:

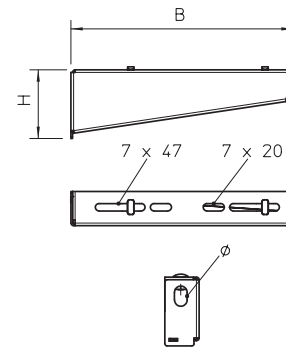
1. Two pre-mounted quick connectors for efficient cable tray fastening.
2. Truss-head bolt M10 x 25 for fastening on the U support.

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

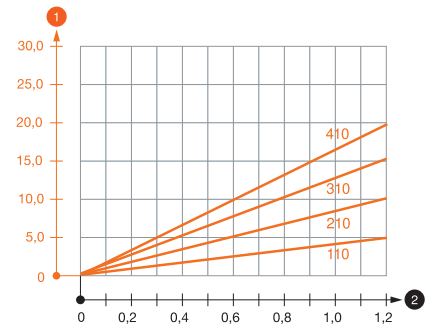


Type	Dimension B mm	Dimension A mm	Dimension H mm	Hole Ø mm	Di-
					men-
MWAM 12 11 FS	110	32.5	53	11	
MWAM 12 21 FS	210	32.5	65	11	
MWAM 12 31 FS	310	38	75	11	
MWAM 12 41 FS	410	38	83	11	

Dimensions



Load



Load diagram, bracket type MWAM 12

- 1 Bending of the bracket tip at permitted bracket load
 - 2 Permitted 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

Anchor type	Max. load F [kN]			
	Bracket width [mm]			
	110	210	310	410
BZU 8-10-21/75	1,20	0,95	0,70	0,65
BZU 10-10-30/90	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

Support	Max. total load F in kN			
	Bracket length in mm			
	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

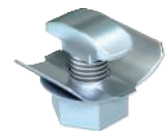
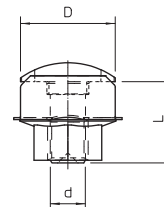
Type	Dimension mm	Dimension L mm	Dimension D mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
FCM F	M6 x 12	—	—	50	0.720	6424548

St Steel

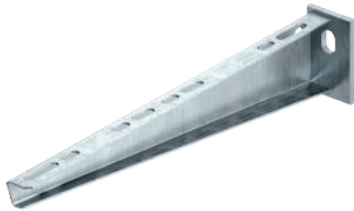
F Hot-dip galvanised

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.



Wall and support bracket AW 15



Type	Width F in kN		Pack. pcs.	Weight	
	mm	kN		kg/100 pcs.	Item No.
AW 15 11 FT	110	1.5	30	14.000	6420656
AW 15 16 FT	160	1.5	30	20.000	6420664
AW 15 21 FT	210	1.5	30	24.700	6420680
AW 15 31 FT	310	1.5	30	39.900	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

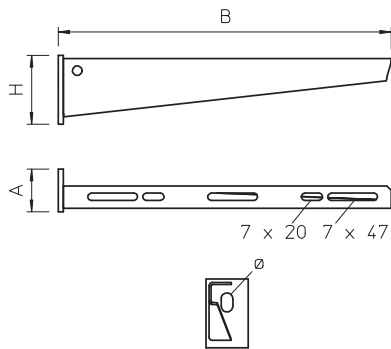
St Steel

FT Hot-dip galvanized

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.

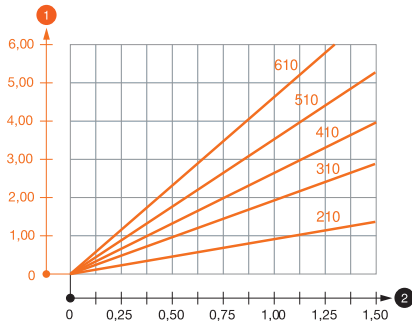
Light-duty wall and support bracket with welded head plate.

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 Permitted bracket load in kN without man load
- Load curve with bracket lengths in mm

Characteristic anchor load values for wall bracket AW 15

Anchor type	Wall fastening									
	Max. load F [kN]									
	Bracket width [mm]									
	110	160	210	310	410	510	560	610		
BZ-U 8-10-21/75	1,10	0,90	0,80	0,65	0,55	0,50	0,45	0,45		
BZ-U 10-10-30/90	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

Support	Max. total load F in kN			
	Bracket length in mm			
	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

Wall and support bracket AW 15



Type	Width F in kN		Pack. pcs	Weight		Item No.
	mm	kN		kg/100 pcs.		
AW 15 11 A2	110	1.5	30	14.000		6421008
AW 15 21 A2	210	1.5	30	24.000		6421024
AW 15 31 A2	310	1.5	30	38.200		6421032
AW 15 41 A2	410	1.5	30	55.000		6421036
AW 15 51 A2	510	1.5	20	68.000		6421040
AW 15 61 A2	610	1.5	20	85.000		6421044
AW 15 11 A4	110	1.5	30	14.000		6392008
AW 15 21 A4	210	1.5	30	24.000		6392016
AW 15 31 A4	310	1.5	30	38.200		6392024
AW 15 41 A4	410	1.5	30	55.000		6392032
AW 15 51 A4	510	1.5	20	68.000		6392040
AW 15 61 A4	610	1.5	20	85.000		6392059

V2A Stainless steel, A2 V4A Stainless steel, A4

GB Stained

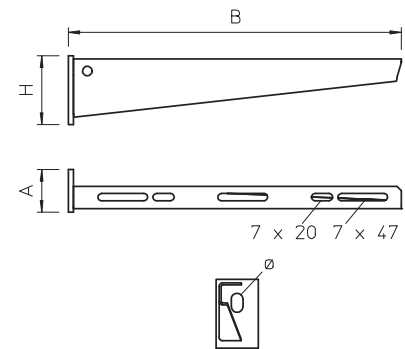
Fastening of the bracket to the U support of width 400 mm or greater using hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate.



Type	Width mm	Di-men- sion		
		A mm	Dimen- sion H mm	Hole Ø mm
AW 15 11 A2	110	40	50	11
AW 15 21 A2	210	40	60	11
AW 15 31 A2	310	40	65	11
AW 15 41 A2	410	40	70	11
AW 15 51 A2	510	40	75	11
AW 15 61 A2	610	40	80	11

Dimensions



Load

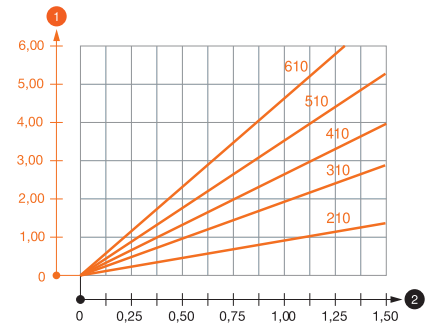
Load diagram, bracket AW 15 VA

- 1 Bending of the bracket tip at permitted bracket load
- 2 Permitted bracket load in kN without man load
- Load curve with bracket lengths in mm

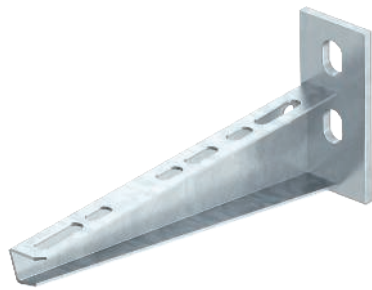
Characteristic anchor load values for wall bracket AW 15

Bracket load							
Anchor	Max. total load F in kN						
	Permitted						
	F kN	100	200	300	400	500	600
Permitted	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 15



Type	Width F in kN		Pack. pcs.	Weight	
	mm	kN		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	28.400	6420915
AW 15 31 FT 2L	310	1.5	30	42.000	6420918
AW 15 41 FT 2L	410	1.5	30	59.300	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

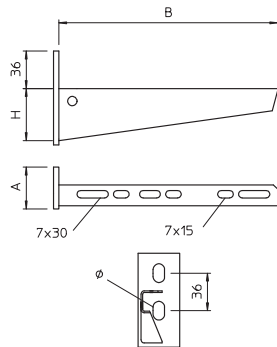
SI Steel

FT Hot-dip galvanised

The double-perforated bracket offers the special option of double anchoring on lightweight partitions and light masonry.

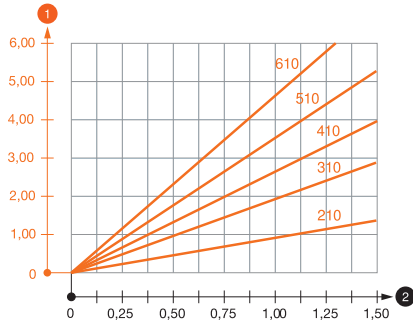
Wall and support bracket with welded head plate and two fastening holes.

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 Permitted bracket load in kN without man load
- Load curve with bracket lengths in mm

Characteristic anchor load values for wall bracket AW 15

Anchor type	Max. load F [kN]								
	Bracket width [mm]								
	110	160	210	310	410	510	560	610	
BZ-U 8-10-21/75	1,10	0,90	0,80	0,65	0,55	0,50	0,45	0,45	
BZ-U 10-10-30/90	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).

Wall and support bracket AW 30

Type	Width F in kN		Pack. pcs.	Weight		Item No.
	mm	kN		kg/100	pcs.	
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	39.300		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	130.000		6419798
AW 30 56 FT	560	3	1	148.800		6419844
AW 30 61 FT	610	3	1	158.000		6419828
AW 30 71 FT	710	3	1	207.000		6419836



St. Steel

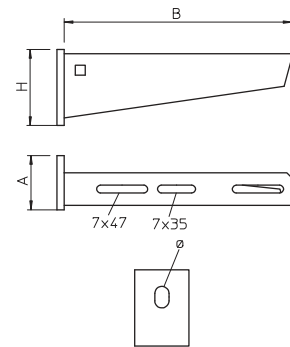
FT Hot-dip galvanised

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.

Type	Dimension B mm	Dimension A mm	Dimension	
			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

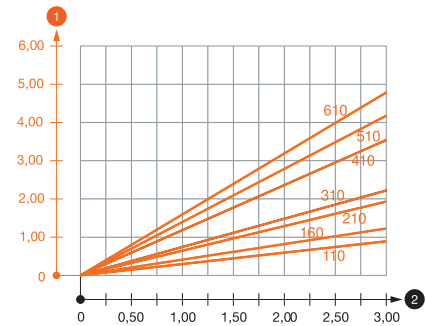
Dimensions



Load

Load diagram, bracket, type AW 30

- 1 Bending of the bracket tip at permitted bracket load
 - 2 Permitted 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

Anchor type	Wall fastening						
	Max. load F [kN]						
	Bracket width [mm]						
	110	160	210	310	410	510	560
BZ-U 10-10-30/90	2,50	2,10	1,65	1,40	1,10	1,00	1,00
BZ 12-15-35/110	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

Support	Max. total load F in kN			
	Bracket length in mm			
	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

Wall and support bracket AW 30



Type	Width F in kN		Weight		Item No.
	mm	kN	Pack. pcs.	kg/100 pcs.	
AW 30 11 A2	110	3	1	21.000	6442803
AW 30 21 A2	210	3	1	37.500	6442838
AW 30 31 A2	310	3	1	60.500	6442854
AW 30 41 A2	410	3	1	86.000	6442870
AW 30 51 A2	510	3	1	126.000	6442897
AW 30 61 A2	610	3	1	154.000	6442919
AW 30 11 A4	110	3	1	21.000	6443615
AW 30 21 A4	210	3	1	37.500	6443311
AW 30 31 A4	310	3	1	60.500	6443621
AW 30 41 A4	410	3	1	86.000	6443346
AW 30 51 A4	510	3	1	126.000	6443625
AW 30 61 A4	610	3	1	154.000	6443627

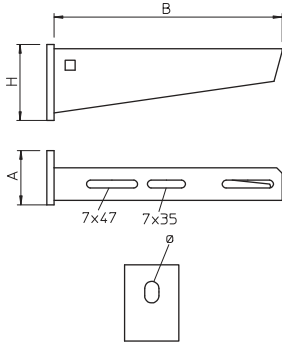
V2A Stainless steel, A2 V4A Stainless steel, A4

GB Stained

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.

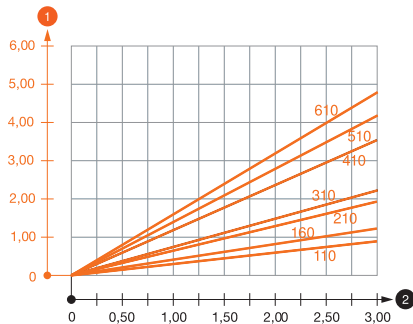
Medium-duty wall and support bracket with welded head plate.

Dimensions



Type	Width mm	Di- men- sion		
		A mm	Dimen- sion H mm	Hole Ø mm
AW 30 11 A2	110	50	60	11
AW 30 21 A2	210	50	70	13
AW 30 31 A2	310	50	80	13
AW 30 41 A2	410	50	80	13
AW 30 51 A2	510	50	90	13
AW 30 61 A2	610	50	100	13

Load



Load diagram, bracket AW 30 VA

- ① Bending of the bracket tip at permitted bracket load
- ② Permitted 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

Anchor Permitted	Bracket load					
	Max. total load F in kN					
	Bracket length in mm					
F kN	100	200	300	400	500	600
	3,57	1,66	1,12	0,99	0,76	0,74
	4,76	2,21	1,50	1,32	1,01	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).

Wall and support bracket AW 55



Type	Width F in kN		Pack. pcs.	Weight		Item No.
	mm	kN		kg/100 pcs.		
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

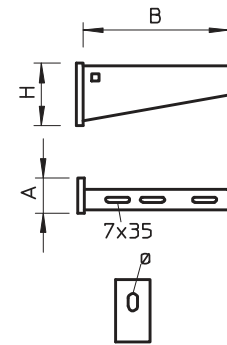
FT Hot-dip galvanised

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.

Type	Dimension B mm	Dimension A mm	Dimension H mm	Hole Ø mm	Di-
					men-
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	

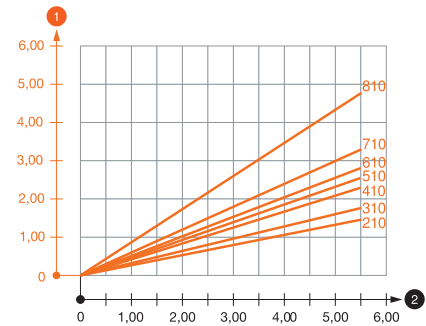
Dimensions



Load

Load diagram, bracket, type AW 55

- 1 Bending of the bracket tip at permitted bracket load
 - 2 Permitted bracket load in kN without man load
- Load curve with bracket lengths in mm

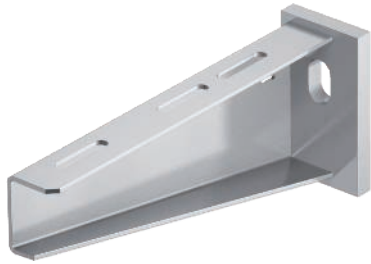


Characteristic anchor load values for wall and support bracket AW 55

Anchor type	Wall fastening							
	Max. load F [kN]							
	Bracket width [mm]							
	210	310	410	510	560	610	710*	
BZ-U 10-10-30/90	2,20	2,10	2,00	1,90	1,90	1,80	1,75	
BZ 12-15-35/110	3,80	3,50	3,50	3,25	3,30	3,00	3,00	
SZ-B 18/0x142	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).

Wall and support bracket AW 55



Type	Width F in kN		Pack. pcs.	Weight kg/100 pcs.	Item No.
	mm	kN			
AW 55 21 A2	210	5.5	1	77.000	6443063
AW 55 31 A2	310	5.5	1	123.000	6443067
AW 55 41 A2	410	5.5	1	167.000	6443071
AW 55 51 A2	510	5.5	1	249.000	6443075
AW 55 61 A2	610	5.5	1	305.000	6443079
AW 55 71 A2	710	5.5	1	445.000	6443083
AW 55 21 A4	210	5.5	1	77.000	6418557
AW 55 31 A4	310	5.5	1	123.000	6418573
AW 55 41 A4	410	5.5	1	167.000	6418601
AW 55 51 A4	510	5.5	1	249.000	6418622
AW 55 61 A4	610	5.5	1	305.000	6418638

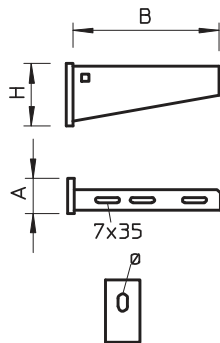
V2A Stainless steel, A2 V4A Stainless steel, A4

GB Stained

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.

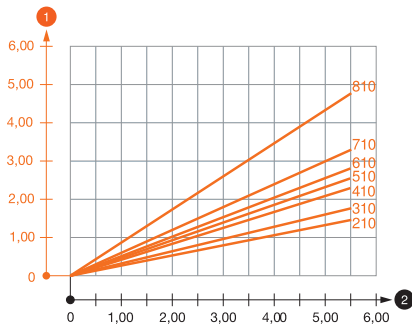
Heavy-duty wall and support bracket with welded head plate.

Dimensions



Type	Width mm	Dimension A mm	Dimension H mm	Hole Ø mm
AW 55 21 A2	210	50	90	13.5
AW 55 31 A2	310	50	110	13.5
AW 55 41 A2	410	50	130	13.5
AW 55 51 A2	510	60	145	13.5
AW 55 61 A2	610	60	165	13.5
AW 55 71 A2	710	60	195	13.5

Load



Load diagram, bracket, type AW 55

- 1 Bending of the bracket tip at permitted bracket load
- 2 Permitted 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

Anchor Permitted	Bracket load					
	Max. total load F in kN					
	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).

Wall bracket AW 80

Type	Width F in kN		Pack. pcs.	Weight kg/100 pcs.	Item No.
	mm	kN			
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

FT Hot-dip galvanised

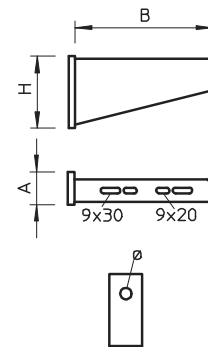
When fastening cable trays and ladders with truss-head bolts of size M6, please order large washers separately (perforation in bracket 9 x ...).

Heavy-duty wall bracket with welded head plate.

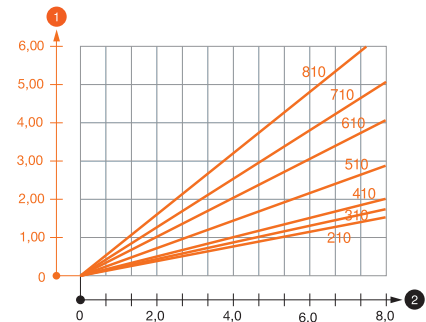


Type	Dimension B mm	Dimension A mm	Dimension H mm	Hole Ø mm	Dimension B mm
AW 80 21 FT	210	50	110	17.5	
AW 80 31 FT	310	50	145	17.5	
AW 80 41 FT	410	50	165	17.5	
AW 80 51 FT	510	60	195	17.5	
AW 80 61 FT	610	60	210	17.5	
AW 80 71 FT	710	60	235	17.5	
AW 80 81 FT	810	60	260	17.5	

Dimensions



Load



Load diagram, bracket type AW 80

- 1 Bending of the bracket tip at permitted bracket load
- 2 Permitted bracket load in kN without man load
- Load curve with bracket lengths in mm

Characteristic anchor load values for wall bracket AW 80

Anchor type	Max. load F [kN]							
	Bracket width [mm]							
	210	310	410	510	610	710*	810*	
BZ 12-15-35/110	4,75	4,60	4,50	4,50	4,25	3,80	3,50	
SZB 18/0x142	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).

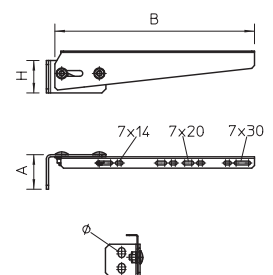
Wall bracket, variable AWVL

Type	Width mm	Dimension H mm	Dimension A mm	Hole Ø mm	F in kN	Pack. pcs.	Weight kg/100 pcs.	Item No.
AWVL 11 FS	170	60	64	13	0.75	5	48.000	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	49.500	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

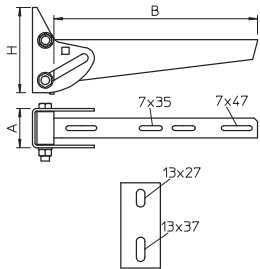
St Steel

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 AWF FT



Type	Dimension		F in kN	Pack. pcs	Weight kg/100 pcs.	Item No.
	Width mm	Dimension H mm				
AWV 21 FT	210	130	60	5	129.000	6419534
AWV 31 FT	310	130	60	5	149.000	6419550
AWV 41 FT	410	130	60	5	171.000	6419577
AWV 51 FT	510	130	60	5	209.000	6419593
AWV 61 FT	610	130	60	5	239.000	6419615

St Steel

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 and clamping bracket AWSS



Type	Width mm	F in 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

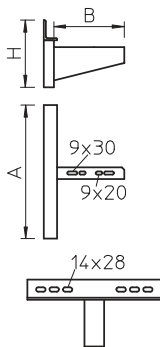
St Steel

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.

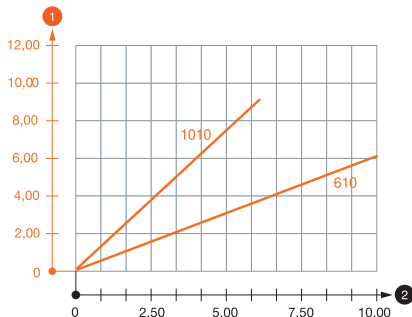
Wall bracket, heavy-duty.

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 Permitted 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	Max. load F [kN]									
	Bracket width [mm]									
	Anchor type	210	310	410	510	610	710°	810°	910°	1010°
BZ 12-15-35/110	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.

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

Sl Steel

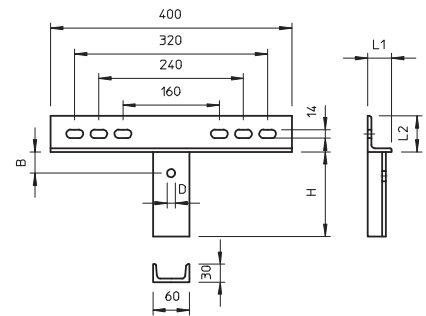
FT Hot-dip galvanised

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.



Type	Height mm	Width mm
KA-AW 30 FT	140	400
KA-AW 80 FT	270	400

Dimensions



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 12-15-35/110		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 12-15-35/110		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).

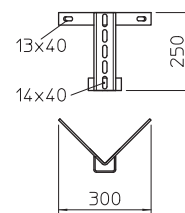
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KA-EA FT	2	201.000	6346763

Sl Steel

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.

Corner seat



Adapter plate



Type

KA-E 45 FT

St Steel

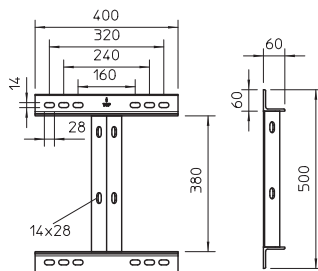
FT Hot-dip galvanised

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.

Pack.	Weight		Item No.
	pcs.	kg/100 pcs.	
1	618.000		6346758

Dimensions



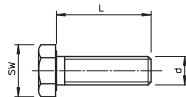
Type	Height mm	Width mm
KA-E 45 FT	500	400

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 12-15-35/110	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

SKS 12x40 GF

St Steel

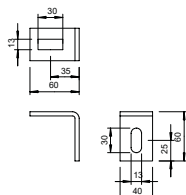
F Hot-dip galvanised

For fastening wall and support brackets on adapter plates.

Hexagonal bolt with hexagonal nut, large washer and washer.

Type	Dimension mm	Dimen- sion L mm	Dimen- sion d mm	SW mm	Pack. pcs.	Weight		Item No.
						kg/100 pcs.		
SKS 12x40 GF	M12 x 40	40	12	19	10	9.800		3164020

Mounting angle



Type

BW 60 40 FT

BW 60 40 A2

BW 60 40 A4

St Steel

V2A Stainless steel, A2

V4A Stainless steel, A4

FT Hot-dip galvanised

Including truss-head bolt M12 x 25.

Mounting angle of limb dimension 60 x 60 mm.

Pack.	Weight		Item No.
	pcs.	kg/100 pcs.	
10	22.000		6019560
10	22.000		6019587
10	22.000		6019583

Mounting angle

Type

BW 70 40 FT

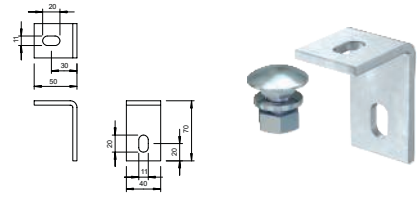
St Steel

FT Hot-dip galvanised

Including truss-head bolt M10 x 25.

Mounting angle of limb dimension 70 x 50 mm.

Pack.	Weight	Item No.
pcs	kg/100 pcs.	
10	22.000	6019706



Fastening bracket

Type

BW 80 55 FT

St Steel

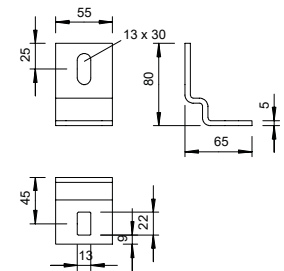
FT Hot-dip galvanised

The mounting angle can also be used in conjunction with the heavy-duty vertical ladder, type SLS 80.

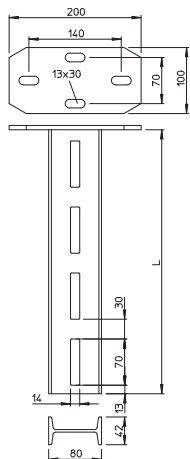
Including fastening bolt M12x30.

Mounting angle for mounting IS 8 supports on the wall.

Pack.	Weight	Item No.
pcs	kg/100 pcs.	
10	32.900	6019528



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

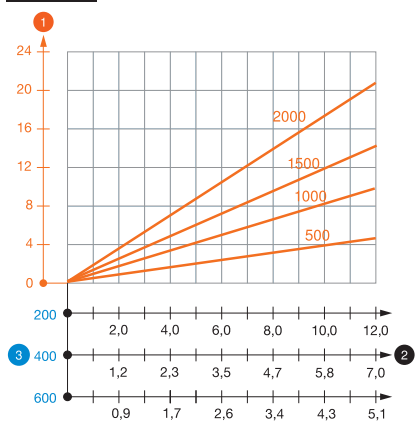
SI Steel

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



Load diagram, I support, type IS 8 K

- 1 Bending of the end of the suspended support at permitted bracket load
- 2 Permitted bracket load in kN without man load
- 3 Bracket length in mm
- Load curves with support lengths in mm

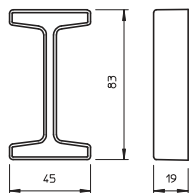
Characteristic anchor load values for IS 8 K suspended support

Single-sided load						
Anchor type	Max. load F [kN]					
	Bracket width [mm]					
	110	210	310	410	510	610
BZ-U 10-10-30/90	4,00	3,25	2,70	3,00	1,75	1,75
BZ 12-15-35/110	7,25	5,75	4,75	4,00	3,25	3,00

Double-sided load						
Anchor type	Max. load F [kN]					
	Bracket width [mm]					
	110	210	310	410	510	610
BZ-U 10-10-30/90	7,00	6,25	5,70	5,25	4,75	4,50
BZ 12-15-35/110	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 $a_i = 14$ 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

End cap to cover the ends of IS 8 supports.

IS 8 support

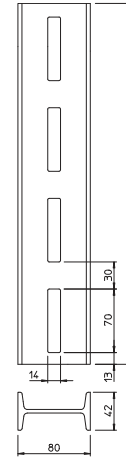
Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
IS 8 30 FT	300	1	171.000	6337031
IS 8 40 FT	400	1	229.000	6337058
IS 8 50 FT	500	1	286.000	6337066
IS 8 60 FT	600	1	344.000	6337074
IS 8 70 FT	700	1	402.000	6337082
IS 8 80 FT	800	1	459.000	6337090
IS 8 90 FT	900	1	517.000	6337104
IS 8 100 FT	1000	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

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

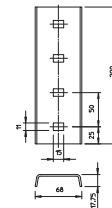
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VIS 8 FT	10	87.000	6018300

St Steel

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

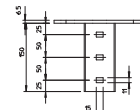
St Steel

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	159.100	6347061

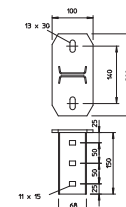
St Steel

FT Hot-dip galvanised

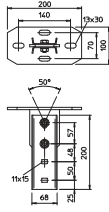
Including appropriate fastening material.

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.



Head plate, variable



Type

KI 8 VQP FT

St Steel

FT Hot-dip galvanised

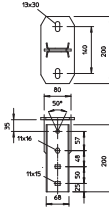
Including appropriate fastening material.

Limit the length of the support to max. 2,000 mm.

Variable head plate, adjustable in straight direction, for installation on IS 8 support.

Pack.	Weight		Item No.
	kg/100	pcs.	
1	219.000	6348106	

Head plate, variable



Type

KI 8 VLK FT

St Steel

FT Hot-dip galvanised

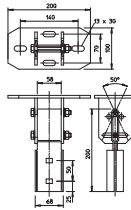
Including appropriate fastening material.

Limit the length of the support to max. 2,000 mm.

Variable head plate, adjustable in straight direction, for installation on IS 8 support.

Pack.	Weight		Item No.
	kg/100	pcs.	
1	227.000	6348157	

Head plate, variable



Type

KI 8 VLP FT

St Steel

FT Hot-dip galvanised

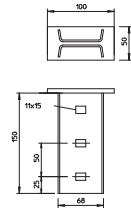
Including appropriate fastening material.

Limit the length of the support to max. 2,000 mm.

Variable head plate, adjustable in transverse direction, for installation on IS 8 support.

Pack.	Weight		Item No.
	kg/100	pcs.	
1	275.000	6347843	

Head plate for welding



Type

KI 8 AOX FT

St Steel

FT Hot-dip galvanised

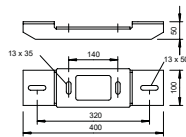
Including appropriate fastening material.

Limit the length of the support to max. 2,000 mm.

Head plate for welded mounting on IS 8 support.

Pack.	Weight		Item No.
	kg/100	pcs.	
1	84.000	6347088	

Adapter head plate, symmetrical



Type

KA-SY FT

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

Pack.	Weight		Item No.
	kg/100	pcs.	
1	277.000	6346804	

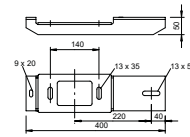
Adapter head plate, asymmetrical

Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
KA-ASY FT	1	280.000	6346820

- 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.



Head plate with a welded-on CPS 5 rail

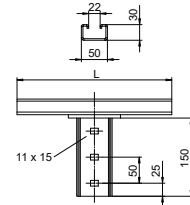
Type	Length mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
K18 CPS5-1-300FT	300	1	166.000	6347026
K18 CPS5-1-400FT	400	1	195.000	6347030
K18 CPS5-1-500FT	500	1	224.000	6347028

- St Steel
- FT Hot-dip galvanised

Including appropriate fastening material.

Head plate with a welded-on MS5030 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

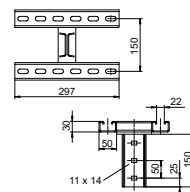
Type	Length mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
K18 CPS5-2-300FT	300	1	281.000	6347036
K18 CPS5-2-400FT	400	1	345.300	6347032
K18 CPS5-2-500FT	500	1	397.000	6347038

- St Steel
- FT Hot-dip galvanised

Including appropriate fastening material.

Head plate with two welded-on MS5030 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.



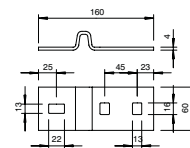
Support strap

Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
AHIS 8 FT	10	89.900	6019064

- St Steel
- FT Hot-dip galvanised

Including appropriate fastening material.

Support strap for right-angled connection of I supports.



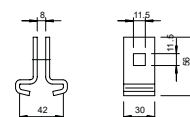
Support claw

Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
TGK 30 42 FT	10	17.000	6018963

- St Steel
- 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.



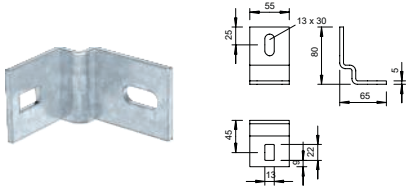
04_KTS_Produnkteilheitenkatalog_EX_2018 / en / 2018/11/13 10:55:57 (LLEXP02475) / 2018/11/13 10:59:11 10:59:11

Mounting systems



I support systems

Fastening bracket



Type

BW 80 55 FT

St Steel

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 M12x30.

Mounting angle for mounting IS 8 supports on the wall.

Pack.	Weight		Item No.
	kg/100	pcs.	
10	32.900	6019528	

Support bracket AS 15



Width F in kN
mm kN

Type

Type	Width F in kN		Pack.	Weight		Item No.
	mm	kN		pcs.	kg/100	
AS 15 11 FT	110	1.5	30	27.400	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	46.500	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

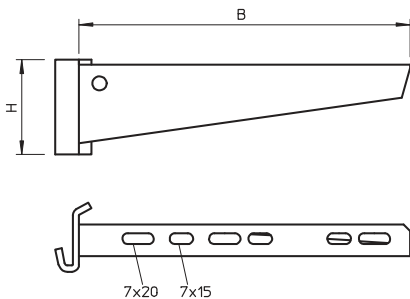
FT Hot-dip galvanised

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

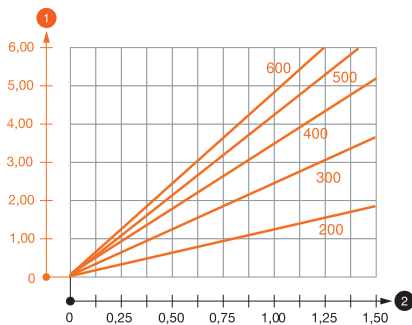


Dimen- Dimen-
sion B sion H
mm mm

Type

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



Load diagram, bracket type AS 15

- ① Bending of the bracket tip at permitted bracket load
- ② Permitted bracket load in kN without man load
- Load curve with bracket lengths in mm

Support bracket AS 30



Type	Width F in kN		Pack. pcs.	Weight	
	mm	kN		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	73.000	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

FT Hot-dip galvanised

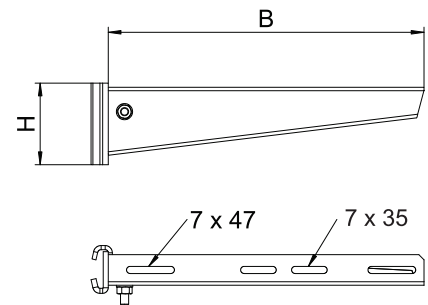
The support bracket can be fastened to both sides of the I support.

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.

Type	Dimen-	Dimen-
	sion B	sion H
	mm	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

Dimensions



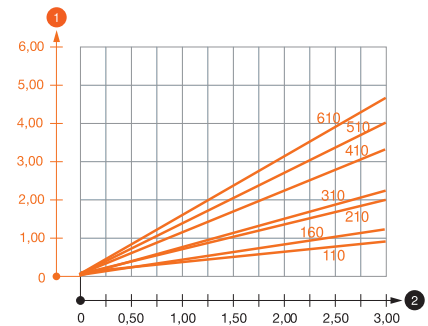
Load diagram, bracket type AS 30

1 Bending of the bracket tip at permitted bracket load

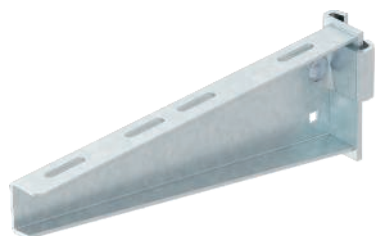
2 Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm

Load



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

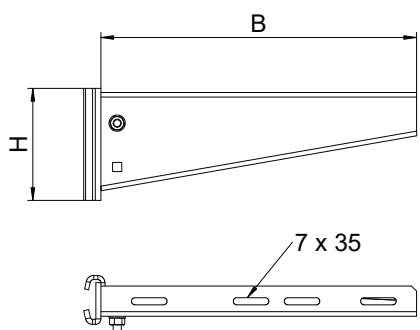
FT Hot-dip galvanised

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.

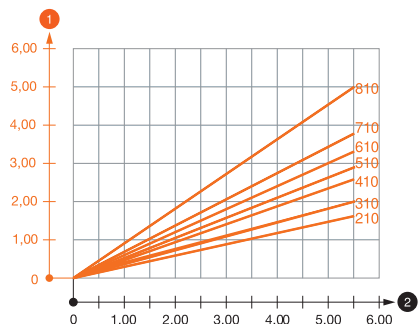
Heavy-duty support bracket for infinitely adjustable fastening on IS 8 support.

Dimensions



Type	Dimen- sion B mm	Dimen- sion 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 Permitted bracket load in kN without man load
- Load curve with bracket lengths in mm

Clamping lug for clamp fastening system

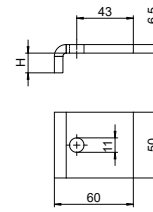
Type	Height		Bolt	Pack. pcs	Weight kg/100 pcs.	Item No.
	mm					
KL1 10 S FT	10		M10 x 40	10	22.500	6354106
KL1 15 S FT	15		M10 x 50	10	24.000	6354114
KL1 20 S FT	20		M10 x 50	10	25.000	6354122

St Steel

FT Hot-dip galvanised

Choose the clamping lug according to the thickness of the flange.

Clamping lug, type KL1, to fasten light support structures to steel girder flanges.



Clamping angle KWS

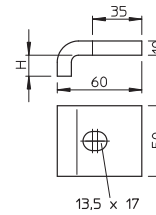
Type	Height mm	F in kN	Bolt	Pack. pair	Weight kg/100 pairs	Item No.
KWS 10 FT	10	5.7	M12 x 50	10	70.000	6355226
KWS 15 FT	15	5.7	M12 x 50	10	146.000	6355234
KWS 20 FT	20	5.7	M12 x 60	10	79.000	6355242
KWS 25 FT	25	5.7	M12 x 60	10	80.000	6355250
KWS 5 A2	5	5.7	M12 x 40	5	62.000	6355404
KWS 10 A2	10	5.7	M12 x 50	5	68.000	6355412
KWS 15 A2	15	5.7	M12 x 50	5	146.000	6355420
KWS 20 A2	20	5.7	M12 x 60	5	77.000	6355439
KWS 25 A2	25	5.7	M12 x 60	5	81.000	6355447

St Steel V2A Stainless steel, A2

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 profile KWH for MS5030, 22 mm slot width

Type	Height mm	F in kN	Bolt	Pack. pair	Weight kg/100 pairs	Item No.
KWH 10 FT	10	5.7	M12 x 50	10	73.000	6355048
KWH 15 FT	15	5.7	M12 x 50	10	76.000	6355056
KWH 20 FT	20	5.7	M12 x 60	10	82.000	6355064
KWH 25 FT	25	5.7	M12 x 60	10	87.000	6355072
KWH 5 A2	5	5.7	M12 x 40	5	65.000	6355307
KWH 10 A2	10	5.7	M12 x 50	5	71.000	6355315
KWH 15 A2	15	5.7	M12 x 50	5	146.000	6355323
KWH 20 A2	20	5.7	M12 x 60	5	80.000	6355331
KWH 25 A2	25	5.7	M12 x 60	5	84.000	6355358

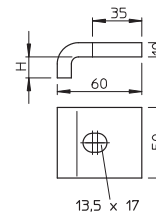
St Steel V2A Stainless steel, A2

FT Hot-dip galvanised

Adapt the clamping angle to the material thickness of the flange.

The clamping angle is used in conjunction with profile rails of slot width 22 mm.

Clamping profile, with hook-head bolt, type KWH, for fastening in the mounting rail, type MS5030.



Chuck jaw, light-duty TKS

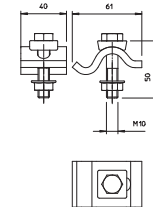
Type	Height mm	F in kN	Pack. pair	Weight kg/100 pairs	Item No.

St Steel

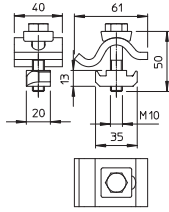
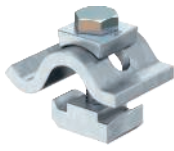
FT Hot-dip galvanised

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

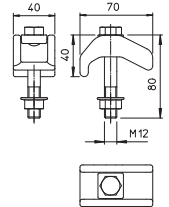


Type	Height		F in kN	Pack. pair	Weight kg/100 pairs	Item No.
	mm	kN				
TKH-L-25 FT	25	10		10	46.000	6355812

- St** Steel
- 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 combination with profile rails of slot width 18 mm and 22 mm. Light-duty tensioning claw with slide nut for fixing mounting rails to steel girder flanges.

Chuck jaw, heavy-duty TKS

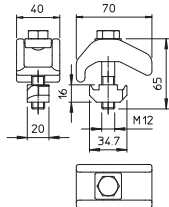
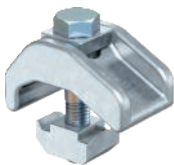


Type	Height		F in kN	Pack. pair	Weight kg/100 pairs	Item No.
	mm	kN				
TKS-S-30 FT	30	21		10	84.000	6355800

- St** Steel
- 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

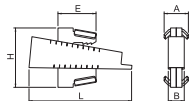


Type	Height		F in kN	Pack. pair	Weight kg/100 pairs	Item No.
	mm	kN				
TKH-S-30 FT	30	21		10	81.000	6355804

- St** Steel
- 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 combination with profile rails of slot width, 22 mm. Heavy-duty chuck jaw with slide nut for fastening profile rails to steel girders.

Beam clamp TKM Chock FS

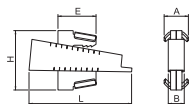


Type	Flange thickness mm	For threaded rod	Breaking load kN	Pack. pcs	Weight		Item No.
					kg/100 pcs.	pcs.	
TKM Chock 1 FS	8 - 20	M6 / M8	2	25	16.100		1480850
TKM Chock 2 FS	8 - 20	M8 / M10	3.5	25	16.400		1480852
TKM Chock 3 FS	8 - 20	M12	5	25	16.800		1480854

- St** Steel
- FS** Strip-galvanised

Beam 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	Flange thickness mm	For threaded rod	Breaking load kN	Pack. pcs	Weight		Item No.
					kg/100 pcs.	pcs.	
TKM Chock 2 A4	8 - 20	M8/M10	3.5	25	16.400		1480882

- V4A** Stainless steel, A4

Beam 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 6-21

Type	Flange thickness mm	For threaded rod	Breaking load F1 kN	Breaking load F2 kN	Pack. pcs.	Weight	
						kg/100 pcs.	Item No.
SSP 6-21 M6 FT	6 - 21	M6	1.75	1.5	25	23.900	1486232
SSP 6-21 M6 A2	6 - 21	M6	1.75	1.5	25	23.200	1486234
SSP 6-21 M6 A4	6 - 21	M6	1.75	1.5	25	23.200	1486236

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FT Hot-dip galvanised

This type of beam 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

SSP 6-21 M6 A2

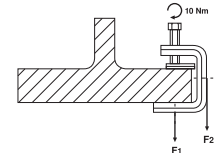
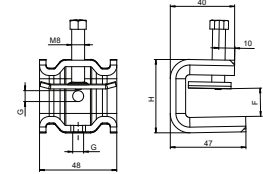
Breaking load F1 kN 1.75

Breaking load F2 kN 1.5

SSP 6-21 M6 A4

Breaking load F1 kN 1.75

Breaking load F2 kN 1.5



Beam clamp SSP 6-21

Type	Flange thickness mm	For threaded rod	Breaking load F1 kN	Breaking load F2 kN	Pack. pcs.	Weight	
						kg/100 pcs.	Item No.
SSP 6-21 M8 FT	6 - 21	M8	1.75	1.5	25	23.900	1486282
SSP 6-21 M8 A2	6 - 21	M8	1.75	1.5	25	23.200	1486284
SSP 6-21 M8 A4	6 - 21	M8	1.75	1.5	25	23.200	1486286

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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 also two more M6 threads are introduced, for example to attach threaded rods.

SSP 6-21 M8 FT

Breaking load F1 kN 1.75

Breaking load F2 kN 1.5

SSP 6-21 M8 A2

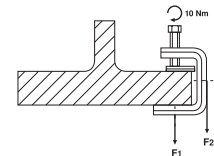
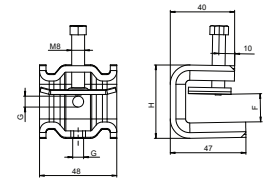
Breaking load F1 kN 1.75

Breaking load F2 kN 1.5

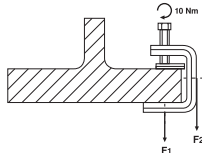
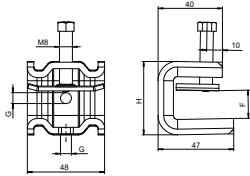
SSP 6-21 M8 A4

Breaking load F1 kN 1.75

Breaking load F2 kN 1.5



SSP support clamp



Type	Flange thickness mm	For threaded rod	Breaking load F1 kN	Breaking load F2 kN	Weight		Item No.
					Pack. pcs	kg/100 pcs.	
SSP 20-40 M6 FT	20 - 40	M6	1.4	1.3	25	27.700	1486238
SSP 20-40 M6 A2	20 - 40	M6	1.4	1.3	25	27.700	1486242
SSP 20-40 M6 A4	20 - 40	M6	1.4	1.3	25	27.700	1486244

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4
FT Hot-dip galvanised

This type of beam 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

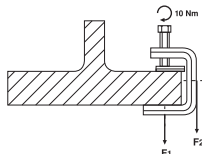
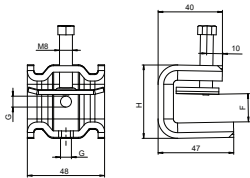
SSP 20-40 M6 A2

Breaking load F1 kN 1.4
 Breaking load F2 kN 1.3

SSP 20-40 M6 A4

Breaking load F1 kN 1.4
 Breaking load F2 kN 1.3

SSP support clamp



Type	Flange thickness mm	For threaded rod	Breaking load F1 kN	Breaking load F2 kN	Weight		Item No.
					Pack. pcs	kg/100 pcs.	
SSP 20-40 M8 FT	20 - 40	M8	1.4	1.3	25	27.800	1486288
SSP 20-40 M8 A2	20 - 40	M8	1.4	1.3	25	27.800	1486292
SSP 20-40 M8 A4	20 - 40	M8	1.4	1.3	25	27.800	1486294

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4
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 also two more M8 threads are introduced, for example to attach threaded rods.

SSP 20-40 M8 FT

Breaking load F1 kN 1.4
 Breaking load F2 kN 1.3

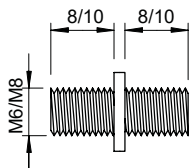
SSP 20-40 M8 A2

Breaking load F1 kN 1.4
 Breaking load F2 kN 1.3

SSP 20-40 M8 A4

Breaking load F1 kN 1.4
 Breaking load F2 kN 1.3

Double nipple



Type	Thread length mm	Shipping box pcs	Weight		Item No.
			Pack. pcs	kg/100 pcs.	
3100 M6 G	8	2600	100	0.355	3131068
3100 M8 G	10	2400	100	0.680	3131084

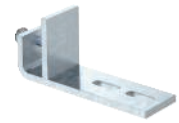
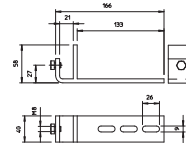
St Steel
G Electrogalvanised
 Double nipple with metric thread.

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
BFK 166 58 20 A2	166	133	10	46.000	6003877

St Steel **V2A** Stainless steel, A2
GB Stained **FT** Hot-dip galvanised

The cable support system attached to the beam clamp runs vertically.
 Beam clamp for clamping on the steel girder.

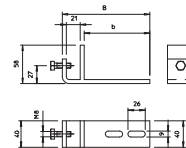


Beam clamp, vertical BFK 132

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
BFK 132 58 A2	132	99	10	38.000	6003871

St Steel **V2A** Stainless steel, A2
GB Stained **FT** Hot-dip galvanised

The cable support system attached to the beam clamp runs vertically.
 Beam clamp for clamping on the steel girder.

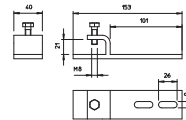


Beam clamp, horizontal BFK 153

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
BFK 153 33 A2	153	101	10	37.200	6003873

St Steel **V2A** Stainless steel, A2
GB Stained **FT** Hot-dip galvanised

The cable support system attached to the beam clamp runs horizontally.
 Beam clamp for clamping on the steel girder.

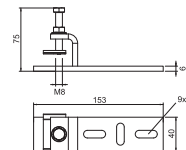


Fastening clamp

Type	Dimension B mm	Dimension b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BFKD 153 44 FT	153	101	10	41.400	6003885

St Steel
FT Hot-dip galvanised

The cable support system attached to the fastening clamp runs horizontally.
 Fastening clamp with pressure plate for clamping on the steel girder.

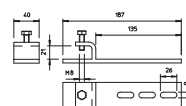


Beam clamp, horizontal BFK 187

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
BFK 187 33 A2	187	135	10	42.000	6003879

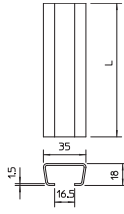
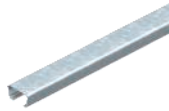
St Steel **V2A** Stainless steel, A2
GB Stained **FT** Hot-dip galvanised

The cable support system attached to the beam clamp is horizontal routing.
 Beam clamp for clamping on the steel girder.



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Anchor rail AM3518, slot 16.5 mm, unperforated



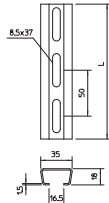
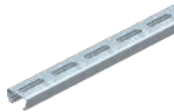
Type	Length mm	Dimension W x H mm	Material thickness mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
AML3518UP2000BK	2000	35 x 18	1.5	2000	20	90.000	1118021
AML3518UP2000FS	2000	35 x 18	1.5	2000	20	90.000	1118226
AML3518UP2000FT	2000	35 x 18	1.5	2000	20	89.400	1118129

St Steel

FS Strip-galvanised **BK** Bright **FT** Hot-dip galvanised

Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Anchor rail AML3518, slot 16.5 mm, perforated



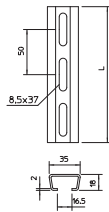
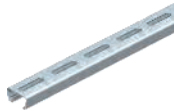
Type	Length mm	Dimension W x H mm	Material thickness mm	Dimen- sion L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
AML3518P0200FT	200	35 x 18	1.5	200	25	17.800	1119696
AML3518P0300FT	300	35 x 18	1.5	300	25	26.700	1119693
AML3518P0400FT	400	35 x 18	1.5	400	10	35.600	1119690
AML3518P0500FT	500	35 x 18	1.5	500	10	44.500	1119687
AML3518P0600FT	600	35 x 18	1.5	600	10	53.400	1119684
AML3518P0700FT	700	35 x 18	1.5	700	10	62.300	1119681
AML3518P0800FT	800	35 x 18	1.5	800	10	71.200	1119678

St Steel

FT Hot-dip galvanised

Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Profile rail 2068, slot width 16.5, perforated



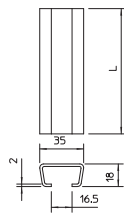
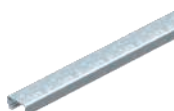
Type	Length mm	Dimension W x H mm	Material thickness mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
AML3518P1000FT	1000	35 x 18	1.5	1000	10	89.000	1119672
AML3518P2000FT	2000	35 x 18	1.5	2000	20	89.000	1119656
AML3518P1000A2	1000	35 x 18	1.5	1000	10	82.000	1119700
AML3518P2000A2	2000	35 x 18	1.5	2000	20	80.000	1119702
AML3518P6000A2	6000	35 x 18	1.5	6000	6	80.000	1119729

St Steel **V2A** Stainless steel, A2

FT Hot-dip galvanised

Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Anchor rail AM3518, slot 16.5 mm, unperforated



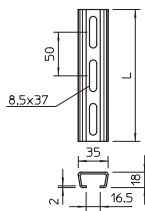
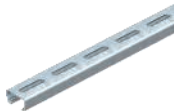
Type	Length mm	Dimension W x H mm	Material thickness mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
AMS3518UP2000BK	2000	35 x 18	2	2000	20	116.000	1112023
AMS3518UP2000FS	2000	35 x 18	2	2000	20	116.000	1112120
AMS3518UP2000FT	2000	35 x 18	2	2000	20	121.350	1112228

St Steel

FS Strip-galvanised **BK** Bright **FT** Hot-dip galvanised

Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Anchor rail AMS3518, slot 16.5 mm, perforated



Type	Length mm	Dimension W x H mm	Material thickness mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
AMS3518P2000FS	2000	35 x 18	2	2000	2	115.000	1112708
AMS3518P2000FT	2000	35 x 18	2	2000	20	122.000	1112759

St Steel

FS Strip-galvanised **FT** Hot-dip galvanised

Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

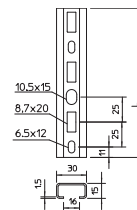
CM3015 profile rail, slot 16 mm, perforated

Type	Length mm	Dimension W x H mm	Material thickness mm	Dimen- sion L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
CM3015P0200FT	200	30 x 15	1.5	200	25	15.000	1109782
CM3015P0300FT	300	30 x 15	1.5	300	25	22.000	1109790
CM3015P0400FT	400	30 x 15	1.5	400	10	30.000	1109804
CM3015P0500FT	500	30 x 15	1.5	500	10	37.000	1109812
CM3015P0600FT	600	30 x 15	1.5	600	10	44.000	1109820
CM3015P0700FT	700	30 x 15	1.5	700	10	50.000	1109839
CM3015P0800FT	800	30 x 15	1.5	800	10	56.000	1109847

St Steel

FT Hot-dip galvanised

Profile rail, perforated, slot width 16 mm.



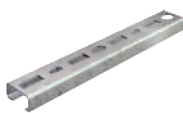
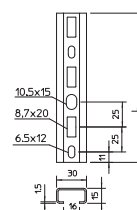
CM3015 profile rail, slot 16 mm, perforated

Type	Length mm	Dimension W x H mm	Material thickness mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
CM3015P1000FT	1000	30 x 15	1.5	1000	10	73.000	1109863
CM3015P2000FT	2000	30 x 15	1.5	2000	20	73.000	1109871

St Steel

FT Hot-dip galvanised

Profile rail, perforated, slot width 16 mm.



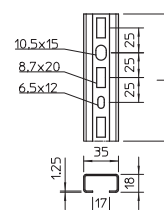
CM3518 profile rail, slot 17 mm, perforated

Type	Length mm	Dimension W x H mm	Material thickness mm	Dimen- sion L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
CML3518P0150FS	150	35 x 18	1.25	150	25	10.600	1104241
CML3518P0200FS	200	35 x 18	1.25	200	25	14.200	1104268
CML3518P0300FS	300	35 x 18	1.25	300	25	21.300	1104284
CML3518P0400FS	400	35 x 18	1.25	400	10	28.400	1104292
CML3518P0500FS	500	35 x 18	1.25	500	10	35.500	1104306
CML3518P0600FS	600	35 x 18	1.25	600	10	42.600	1104310
CML3518P0700FS	700	35 x 18	1.25	700	10	49.700	1104315
CML3518P0800FS	800	35 x 18	1.25	800	10	56.800	1104320
CML3518P0900FS	900	35 x 18	1.25	900	10	63.900	1104325

St Steel

FS Strip-galvanised

Light-duty profile rail, perforated, slot width 17 mm.



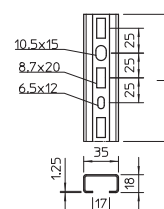
CM3518 profile rail, slot 17 mm, perforated

Type	Length mm	Dimension W x H mm	Material thickness mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
CML3518P1000FS	1000	35 x 18	1.25	1000	1	71.000	1104497
CML3518P2000FS	2000	35 x 18	1.25	2000	2	71.000	1104500

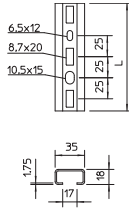
St Steel

FS Strip-galvanised

Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.



CM3518 profile rail, slot 17 mm, perforated



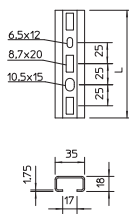
Type	Length mm	Dimension W x H mm	Material thickness mm	Dimen- sion L mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
CMS3518P0150FS	150	35 x 18	1.75	150	25	14.670	1104349
CMS3518P0200FS	200	35 x 18	1.75	200	25	19.560	1104357
CMS3518P0300FS	300	35 x 18	1.75	300	25	29.340	1104373
CMS3518P0400FS	400	35 x 18	1.75	400	10	39.120	1104391
CMS3518P0500FS	500	35 x 18	1.75	500	10	48.900	1104403
CMS3518P0600FS	600	35 x 18	1.75	600	10	58.680	1104411
CMS3518P0700FS	700	35 x 18	1.75	700	10	68.460	1104422
CMS3518P0800FS	800	35 x 18	1.75	800	10	78.240	1104427
CMS3518P0900FS	900	35 x 18	1.75	900	10	88.020	1104435

St Steel

FS Strip-galvanised

Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

CM3518 profile rail, slot 17 mm, perforated



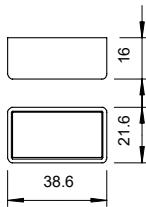
Type	Length mm	Dimension W x H mm	Material thickness mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
CMS3518P1000FS	1000	35 x 18	1.75	1000	10	97.800	1104445
CMS3518P2000FS	2000	35 x 18	1.75	2000	2	97.800	1104454

St Steel

FS Strip-galvanised

Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Protective cap

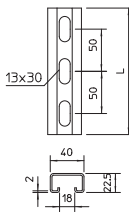


Type	Colour	Pack. pcs.	Weight kg/100 pcs.	Item No.
CM3518 SK	Pastel orange	50	0.384	1124502

PE Polyethylene

Protective cap for profile rail types CM3518 and AM3518.

MS4022 mounting rail, heavy-duty, slot 18 mm, perforated



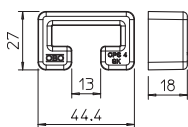
Type	Length mm	Dimension W x H mm	Material thickness mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
MS4022P2000FT	2000	40 x 22,5	2	2000	10	152.500	1121979
MS4022P6000FT	6000	40 x 22,5	2	6000	6	152.500	1121898
MS4022P2000A2	2000	40 x 22,5	2	2000	10	152.500	1121960
MS4022P6000A2	6000	40 x 22,5	2	6000	6	152.500	1121901

St Steel **V2A** Stainless steel, A2

FT Hot-dip galvanised

Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

Protective cap MS4022



Type	Colour	Pack. pcs.	Weight kg/100 pcs.	Item No.
MS4022 SK	Pastel orange	25	0.675	1124555

PE Polyethylene

Protective caps for profile rail, type MS4022.

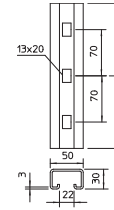
MS5030 mounting rail, slot 22 mm, perforated

Type	Length mm	Dimension W x H mm	Material thickness mm	Dimen- sion L mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
MS5030RP0220FT	220	50 x 30	3	220	1	69.000	6349404
MS5030RP0260FT	260	50 x 30	3	260	1	81.500	6349412
MS5030RP0300FT	300	50 x 30	3	300	1	94.000	6349439
MS5030RP0340FT	340	50 x 30	3	340	1	107.000	6349447
MS5030RP0380FT	380	50 x 30	3	380	1	119.000	6349463

St Steel

FT Hot-dip galvanised

Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.



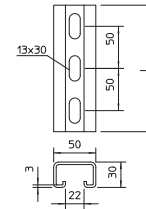
MS5030 mounting rail, slot 22 mm, perforated

Type	Length mm	Dimension W x H mm	Material thickness mm	Dimen- sion L mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
MS5030P0200FT	200	50 x 30	3	200	1	57.000	1121391
MS5030P0300FT	300	50 x 30	3	300	1	85.000	1121243
MS5030P0400FT	400	50 x 30	3	400	1	113.000	1121278
MS5030P0500FT	500	50 x 30	3	500	1	141.000	1121405
MS5030P0600FT	600	50 x 30	3	600	1	170.000	1121294
MS5030P0700FT	700	50 x 30	3	700	1	198.000	1121332
MS5030P0800FT	800	50 x 30	3	800	1	235.000	1121308
MS5030P0900FT	900	50 x 30	3	900	1	255.000	1121336
MS5030P1500FT	1500	50 x 30	3	1500	1	424.000	1121363

St Steel

FT Hot-dip galvanised

Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.



MS5030 mounting rail, slot 22 mm, perforated

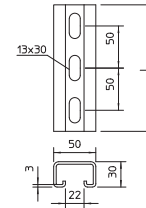
Type	Length mm	Dimension W x H mm	Material thickness mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
MS5030P1000FT	1000	50 x 30	3	1000	1	282.500	1121448
MS5030P2000FT	2000	50 x 30	3	2000	2	282.500	1121464
MS5030P3000FT	3000	50 x 30	3	3000	3	308.100	1121466
MS5030P6000FT	6000	50 x 30	3	6000	6	282.500	1121472
MS5030P2000A2	2000	50 x 30	3	2000	2	282.500	1121480
MS5030P6000A2	6000	50 x 30	3	6000	6	282.500	1121499

St Steel

V2A Stainless steel, A2

FT Hot-dip galvanised

Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

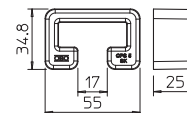


Protective cap

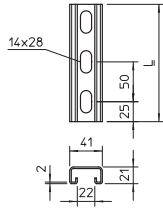
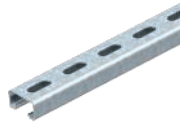
Type	Colour	Pack. pcs.	Weight kg/100 pcs.	Item No.
MS5030 SK	Pastel orange	25	1.260	1124563

PE Polyethylene

Protective caps for profile rail, type MS5030.



MS4121 mounting rail, slot width 22 mm, perforated

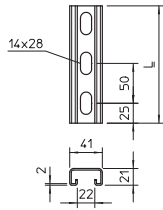


Type	Length mm	Dimension W x H mm	Material thickness mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
MS4121P2000FS	2000	41x21	2	2000	2	175.000	1122918
MS4121P3000FS	3000	41x21	2	3000	3	141.900	1122920
MS4121P6000FS	6000	41x21	2	6000	6	141.900	1122922

St Steel
FS Strip-galvanised

Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

MS4121 mounting rail, slot width 22 mm, perforated

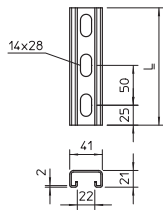


Type	Length mm	Dimension W x H mm	Material thickness mm	Dimen- sion L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MS4121P0200FT	200	41x21	2	200	1	35.100	1122933
MS4121P0300FT	300	41x21	2	300	1	53.000	1122934
MS4121P0400FT	400	41x21	2	400	1	70.000	1122935
MS4121P0500FT	500	41x21	2	500	1	87.000	1122936
MS4121P0600FT	600	41x21	2	600	1	105.000	1122937
MS4121P0700FT	700	41x21	2	700	1	123.000	1122938
MS4121P0800FT	800	41x21	2	800	1	140.000	1122939
MS4121P0900FT	900	41x21	2	900	1	158.000	1122940

St Steel
FT Hot-dip galvanised

Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

MS4121 mounting rail, slot width 22 mm, perforated

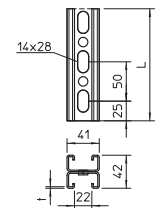


Type	Length mm	Dimension W x H mm	Material thickness mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
MS4121P2000FT	2000	41x21	2	2000	2	183.000	1122923
MS4121P3000FT	3000	41x21	2	3000	3	151.300	1122924
MS4121P6000FT	6000	41x21	2	6000	6	184.000	1122926
MS4121P2000A2	2000	41x21	2	2000	2	175.000	1122925
MS4121P3000A2	3000	41x21	2	3000	3	185.340	1122928
MS4121P6000A2	6000	41x21	2	6000	6	172.670	1122929
MS4121P2000A4	2000	41x21	2	2000	2	175.000	1122476
MS4121P3000A4	3000	41x21	2	3000	3	172.670	1122931
MS4121P6000A4	6000	41x21	2	6000	6	172.670	1122932

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4
FT Hot-dip galvanised

Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

MS4121 mounting rail, slot width 22 mm, double, perforated



Type	Length mm	Dimension W x H mm	Material thickness mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
MS4142P3000FS	3000	41x42	2	3000	3	303.000	1122947
MS4142P6000FS	6000	41x42	2	6000	6	303.000	1122948
MS4142P3000FT	3000	41x42	2	3000	3	303.000	1122944
MS4142P6000FT	6000	41x42	2	6000	6	303.000	1122945
MS4142P6000A2	6000	41x42	2	6000	6	283.800	1122954

St Steel **V2A** Stainless steel, A2
FS Strip-galvanised **FT** Hot-dip galvanised

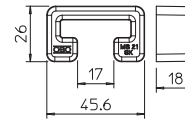
Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm. Double version, i.e. two profile rails are interconnected on the base (clinched).

Protective cap

Type	Colour	Pack. pcs.	Weight kg/100 pcs.	Item No.
MS4121 SK	Pastel orange	25	0.650	1122902

PE Polyethylene

Protective caps for profile rail, type MS4121.

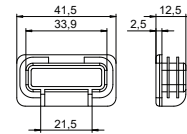


End cap MS4121

Type	Colour	Pack. pcs.	Weight kg/100 pcs.	Item No.
MS4121 EK	Pastel orange	50	0.645	1122904

PE Polyethylene

End cap for profile rail, type MS4121.

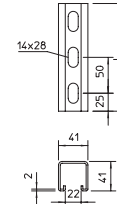


MS4141 mounting rail, slot width 22 mm, perforated

Type	Length mm	Dimension W x H mm	Material thickness mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
MSL4141P1000FS	1000	41x41	2	1000	1	201.100	1122970
MSL4141P3000FS	3000	41x41	2	3000	3	201.100	1122972
MSL4141P6000FS	6000	41x41	2	6000	6	201.100	1122974
MSL4141P1000FT	1000	41x41	2	1000	1	214.700	1122962
MSL4141P3000FT	3000	41x41	2	3000	3	214.700	1122964
MSL4141P6000FT	6000	41x41	2	6000	6	214.700	1122966
MSL4141P1000A2	1000	41x41	2	1000	1	201.100	1122978
MSL4141P3000A2	3000	41x41	2	3000	3	201.100	1122980
MSL4141P6000A2	6000	41x41	2	6000	6	201.100	1122982
MSL4141P1000A4	1000	41x41	2	1000	1	201.100	1122988
MSL4141P3000A4	3000	41x41	2	3000	3	201.100	1122990
MSL4141P6000A4	6000	41x41	2	6000	6	201.100	1122992

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4
 FS Strip-galvanised FT Hot-dip galvanised

Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

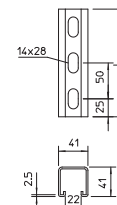


MS4141 mounting rail, slot width 22 mm, perforated

Type	Length mm	Dimension W x H mm	Material thickness mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
MS4141P1000FS	1000	41x41	2.5	1000	1	247.500	1122908
MS4141P3000FS	3000	41x41	2.5	3000	3	247.500	1122910
MS4141P6000FS	6000	41x41	2.5	6000	6	247.500	1122912
MS4141P1000FT	1000	41x41	2.5	1000	1	261.400	1122606
MS4141P3000FT	3000	41x41	2.5	3000	3	261.400	1122622
MS4141P6000FT	6000	41x41	2.5	6000	6	260.670	1122657

St Steel
 FS Strip-galvanised FT Hot-dip galvanised

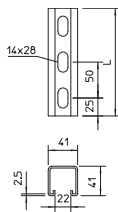
Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.



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Mounting systems

MS4141 mounting rail, slot width 22 mm, perforated

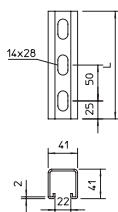


Type	Length mm	Dimension W x H mm	Material thickness mm	Dimen- sion L mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
MS4141P0200FT	200	41x41	2.5	200	1	52.400	1122509
MS4141P0300FT	300	41x41	2.5	300	1	78.500	1122517
MS4141P0400FT	400	41x41	2.5	400	1	104.700	1122525
MS4141P0500FT	500	41x41	2.5	500	1	130.800	1122533
MS4141P0600FT	600	41x41	2.5	600	1	156.900	1122541
MS4141P0700FT	700	41x41	2.5	700	1	183.000	1122568
MS4141P0800FT	800	41x41	2.5	800	1	209.200	1122576
MS4141P0900FT	900	41x41	2.5	900	1	235.300	1122584

St Steel
FT Hot-dip galvanised

Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

MS4141 mounting rail, slot width 22 mm, side-perforated

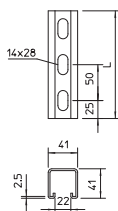


Type	Length mm	Dimension W x H mm	Material thickness mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
MSL4141PP1000FS	1000	41x41	2	1000	1	179.400	1123008
MSL4141PP3000FS	3000	41x41	2	3000	3	179.400	1123010
MSL4141PP6000FS	6000	41x41	2	6000	6	179.400	1123012
MSL4141PP1000FT	1000	41x41	2	1000	1	191.500	1123001
MSL4141PP3000FT	3000	41x41	2	3000	3	191.500	1123003
MSL4141PP6000FT	6000	41x41	2	6000	6	191.500	1123005
MSL4141PP1000A2	1000	41x41	2	1000	1	179.400	1123014
MSL4141PP3000A2	3000	41x41	2	3000	3	179.400	1123016
MSL4141PP6000A2	6000	41x41	2	6000	6	179.400	1123018
MSL4141PP1000A4	1000	41x41	2	1000	1	179.400	1123021
MSL4141PP3000A4	3000	41x41	2	3000	3	179.400	1123023
MSL4141PP6000A4	6000	41x41	2	6000	6	179.400	1123025

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4
FS Strip-galvanised **FT** Hot-dip galvanised

Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

MS4141 mounting rail, slot width 22 mm, side-perforated



Type	Length mm	Dimension W x H mm	Material thickness mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
MS4141PP1000FS	1000	41x41	2.5	1000	1	281.000	1122481
MS4141PP3000FS	3000	41x41	2.5	3000	3	218.000	1122914
MS4141PP6000FS	6000	41x41	2.5	6000	6	218.340	1122916
MS4141PP1000FT	1000	41x41	2.5	1000	1	225.000	1122479
MS4141PP3000FT	3000	41x41	2.5	3000	3	233.340	1122483
MS4141PP6000FT	6000	41x41	2.5	6000	6	225.000	1122487

St Steel
FS Strip-galvanised **FT** Hot-dip galvanised

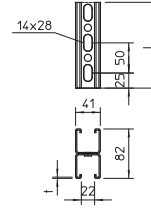
Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

MS4141 mounting rail, slot width 22 mm, double, perforated

Type	Length mm	Dimension W x H mm	Material thickness mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
MS4182P3000FS	3000	41x82	2	3000	3	402.200	1122676
MS4182P6000FS	6000	41x82	2	6000	6	402.200	1122678
MS4182P3000FT	3000	41x82	2	3000	3	402.200	1122671
MS4182P6000FT	6000	41x82	2	6000	6	402.200	1122673
MS4182P3000A2	3000	41x82	2	3000	3	402.200	1122682
MS4182P6000A2	6000	41x82	2	6000	6	402.200	1122684

St Steel V2A Stainless steel, A2
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).

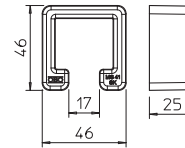


Protective cap for mounting rail MS4141

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.

PE Polyethylene

Protective caps for profile rail, type MS4141.

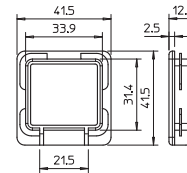


End cap MS4141

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.

PE Polyethylene

End cap for profile rail, type MS4141.



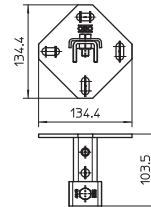
Wall, floor and ceiling bracket with 3 holes

Type	Version	Dimension W x H mm	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.

St Steel
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.

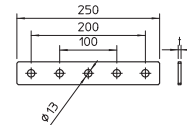


Connection plate with 5 holes

Type	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.

St Steel
FT Hot-dip galvanised

Connection plate with five holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

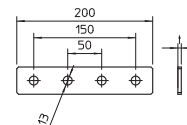


Connection plate with 4 holes

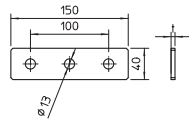
Type	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.

St Steel
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

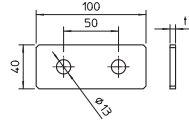


Type	Material thickness mm	Pack. pcs	Weight kg/100 pcs	Item No.
GMS 3 VP FT	5	20	24.010	1124647

- Steel
- 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

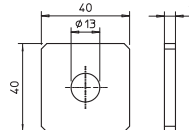
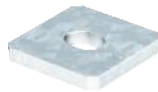


Type	Material thickness mm	Pack. pcs	Weight kg/100 pcs	Item No.
GMS 2 VP FT	5	10	14.000	1124645

- Steel
- 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

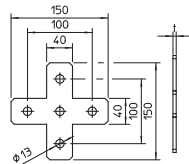
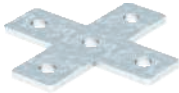


Type	Material thickness mm	Pack. pcs	Weight kg/100 pcs	Item No.
GMS 1 VP FT	5	10	7.120	1124643

- Steel
- 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

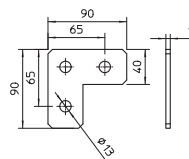
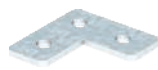


Type	Material thickness mm	Pack. pcs	Weight kg/100 pcs	Item No.
GMS 5 VP X FT	5	10	48.000	1124657

- Steel
- Hot-dip galvanised

Connection plate with five holes for cross connection of profile rails 41 x 41 mm and 41 x 21 mm.

Connection plate, L-shaped

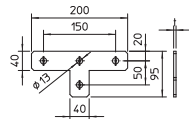


Type	Material thickness mm	Pack. pcs	Weight kg/100 pcs	Item No.
GMS 3 VP L FT	5	10	25.000	1124653

- Steel
- 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	Material thickness mm	Pack. pcs	Weight kg/100 pcs	Item No.
GMS 4 VP T FT	5	10	41.000	1124655

- Steel
- Hot-dip galvanised

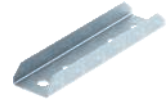
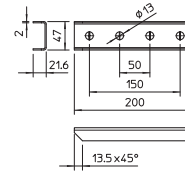
Connection plate with four holes for T-shaped connection of profile rails 41 x 41 mm and 41 x 21 mm.

Connector

Type	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
GVMS 4 ASV FT	With continuous perforation 13 mm	10	44.040	1124641

- St** Steel
- 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.

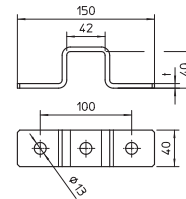


Omega clamp

Type	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 O 4141 FT	5	10	35.000	1124673

- St** Steel
- FT** Hot-dip galvanised

Fastening clip with 3 holes for cross-wise connection of profile rails 41 x 41 mm.

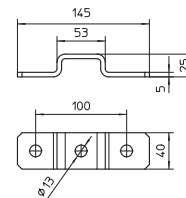


Omega clamp

Type	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 O 4121 FT	5	10	26.800	1124671

- St** Steel
- FT** Hot-dip galvanised

Fastening clip with 3 holes for cross-wise connection of profile rails 41 x 21 mm.

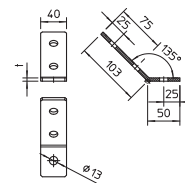


Mounting bracket, 45° with 3 holes

Type	Version	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 VW 45 FT	45° angle	40	10	24.010	1124667

- St** Steel
- 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°.

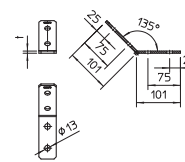


Mounting bracket, 45° with 4 holes

Type	Version	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 4 VW 45 FT	45° angle	40	10	32.000	1124669

- St** Steel
- 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°.

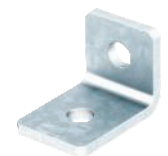
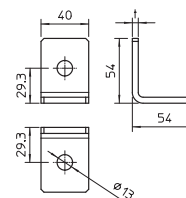


Mounting bracket, 90° with 2 holes

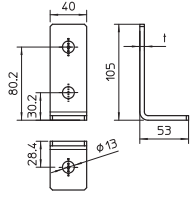
Type	Version	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 2 VW 90 FT	90° angle	60	10	14.000	1124659

- St** Steel
- FT** Hot-dip galvanised

Mounting bracket 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

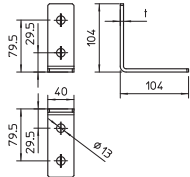


Type	Version	Shipping box pcs	Pack. pcs	Weight kg/100 pcs	Item No.
GMS 3 VW 90 FT	90° angle	40	10	25.910	1124661

- Si Steel
- 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

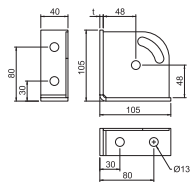


Type	Version	Shipping box pcs	Pack. pcs	Weight kg/100 pcs	Item No.
GMS 4 VW 90 FT	90° angle	30	10	32.000	1124663

- Si Steel
- FT Hot-dip galvanised

Mounting bracket 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 6 holes

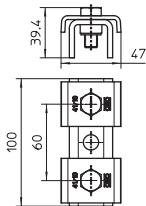
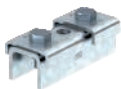


Type	Version	Shipping box pcs	Pack. pcs	Weight kg/100 pcs	Item No.
GMS 6 KD FT	90° bracket		10	50.900	1124792
GMS 6 KD A2	90° bracket		10	48.800	1124796
GMS 6 KD A4	90° bracket		10	48.800	1124798

- Si Steel V2A Stainless steel, A2 V4A Stainless steel, A4
- FT Hot-dip galvanised

Reinforced mounting bracket with 6 holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°. Additional fastening option for a strut at an angle of 45° with an adjusting range of +/- 30°. Can be used for angles between 15° and 75°.

Rail connector SV with 3 holes



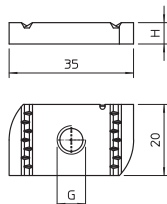
Type	Version	Dimension W x H mm	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs	Item No.
SVE 41 FT	Perforated	47x39,4	4	100	10	42.000	1123121

- Si Steel
- 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



Type	Length mm	Width mm	Height mm	Thread	Pack. pcs	Weight kg/100 pcs	Item No.
MS41SN M6 ZL	35	20	6	M6	50	2.880	1147206
MS41SN M8 ZL	35	20	6	M8	50	2.800	1147210
MS41SN M10 ZL	35	20	8	M10	50	3.650	1147214
MS41SN M12 ZL	35	20	9.5	M12	50	4.200	1147218
MS41SN M6 A4	35	20	6	M6	50	2.880	1147226
MS41SN M8 A4	35	20	6	M8	50	2.800	1147230
MS41SN M10 A4	35	20	8	M10	50	3.650	1147234
MS41SN M12 A4	35	20	9.5	M12	50	4.200	1147238

- Si Steel V4A Stainless steel, A4
- ZL Zinc scale

Slide nut for use with MS4121 und MS4141 profile rails

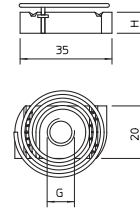
Slide nut with spring

Type	Length mm	Width mm	Height mm	Thread	Pack. pcs	Weight kg/100 pcs.	Item No.
MS41SNF M6 F	35	20	6	M6	50	3.200	1147306
MS41SNF M8 F	35	20	6	M8	50	3.150	1147310
MS41SNF M10 F	35	20	8	M10	50	4.000	1147314
MS41SNF M12 F	35	20	9.5	M12	50	4.550	1147318
MS41SNF M6 A4	35	20	6	M6	50	3.200	1147336
MS41SNF M8 A4	35	20	6	M8	50	3.150	1147340
MS41SNF M10 A4	35	20	8	M10	50	4.000	1147344
MS41SNF M12 A4	35	20	9.5	M12	50	4.550	1147348

Sl Steel **V4A** Stainless steel, A4

F Hot-dip galvanised

Slide nut with spring for use with MS4121 und MS4141 profile rails



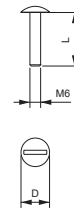
Pan head screw, steel

Type	Dimension mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BS M6x30 G	M6x30	100	0.800	1148898
BS M6x30 A2	M6x30	100	0.790	1148896

Sl Steel **V2A** Stainless steel, A2

G Electrogalvanised

The cup screw is used to connect two panels or to fasten cable sections on brackets. The flat, rounded head offers optimum cable protection.



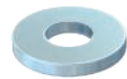
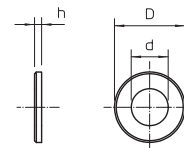
Washer

Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WS M6 D12 G	M6	6.4	12	1.6	100	0.114	3402061
WS M6 D12 A2	M6	6.4	12	1.6	100	0.114	3402304

Sl Steel **V2A** Stainless steel, A2

G Electrogalvanised

Washer according to DIN 125, shape A, for universal use.



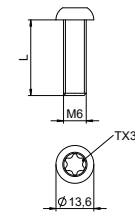
Flat-head screw with internal Torx, steel

Type	Dimension mm	Screw system	Pack. pcs	Weight kg/100 pcs.	Item No.
7380T 6x20 G	M6x20	Torx	100	0.570	3164952
7380T 6x35 G	M6x35	Torx	100	0.910	3164956
7380T M6x20 A2	M6x20	Torx	100	0.580	3164972
7380T M6x35 A2	M6x35	Torx	100	0.910	3164976

Sl Steel **V2A** Stainless steel, A2

G Electrogalvanised

Flat head screw with TX 30, 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.



Hammer-head bolt



Type	Length mm	Width mm	Height mm	Thread	Pack. pcs.	Weight kg/100 pcs.	Item No.
MS41HB M6x30 ZL	35	20	6	M6x30	50	4.000	1148306
MS41HB M8x30 ZL	35	20	6	M8x30	50	4.850	1148310
MS41HB M8x60 ZL	35	20	6	M8x60	25	6.000	1148314
MS41HB M8x100 ZL	35	20	6	M8x100	20	7.600	1148318
MS41HB M10x30 ZL	35	20	8	M10x30	50	7.400	1148322
MS41HB M10x60 ZL	35	20	8	M10x60	25	9.250	1148326
MS41HB M10x100ZL	35	20	8	M10x100	20	11.700	1148330
MS41HB M12x30 ZL	35	20	9.5	M12x30	50	9.750	1148334
MS41HB M12x60 ZL	35	20	9.5	M12x60	25	12.400	1148338
MS41HB M12x100ZL	35	20	9.5	M12x100	20	15.950	1148342
MS41HB M6x30 A4	35	20	6	M6x30	50	4.000	1148406
MS41HB M8x30 A4	35	20	6	M8x30	50	4.800	1148410
MS41HB M8x60 A4	35	20	6	M8x60	25	6.000	1148414
MS41HB M8x100 A4	35	20	6	M8x100	20	7.550	1148418
MS41HB M10x30 A4	35	20	8	M10x30	50	7.350	1148422
MS41HB M10x60 A4	35	20	8	M10x60	25	9.200	1148426
MS41HB M10x100A4	35	20	8	M10x100	20	11.650	1148430
MS41HB M12x30 A4	35	20	9.5	M12x30	50	9.700	1148434
MS41HB M12x60 A4	35	20	9.5	M12x60	25	12.400	1148438
MS41HB M12x100A4	35	20	9.5	M12x100	20	15.900	1148442

St Steel V4A Stainless steel, A4

ZL Zinc scale

Hammer-head bolt for use with MS4121 und MS4141 profile rails

Hammer-head bolt with spring



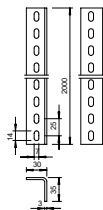
Type	Length mm	Width mm	Height mm	Thread	Pack. pcs.	Weight kg/100 pcs.	Item No.
MS41HBF M8x30 F	35	20	6	M8x30	50	5.200	1148376
MS41HBF M8x60 F	35	20	6	M8x60	25	6.300	1148380
MS41HBF M10x30 F	35	20	8	M10x30	50	7.700	1148384
MS41HBF M10x60 F	35	20	8	M10x60	25	9.550	1148388
MS41HBF M12x30 F	35	20	9.5	M12x30	50	10.000	1148392
MS41HBF M12x60 F	35	20	9.5	M12x60	25	12.700	1148396
MS41HBF M8x30 A4	35	20	6	M8x30	50	4.800	1148476
MS41HBF M8x60 A4	35	20	6	M8x60	25	5.950	1148480
MS41HBF M10x30A4	35	20	8	M10x30	50	7.350	1148484
MS41HBF M10x60A4	35	20	8	M10x60	25	9.200	1148488
MS41HBF M12x30A4	35	20	9.5	M12x30	50	9.700	1148492
MS41HBF M12x60A4	35	20	9.5	M12x60	25	12.400	1148496

St Steel V4A Stainless steel, A4

F Hot-dip galvanised

Hammer-head bolt with spring for use with MS4121 und MS4141 profile rails

Angle profile



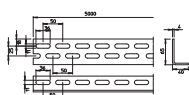
Type	Length mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
WP 30 35 2000 FT	2000	10	257.000	6373100
WP 30 35 5000 FT	5000	1	643.000	6373103

St Steel

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
WP 40 65 5000 A2	5000	5	240.000	6373062

St Steel V2A Stainless steel, A2

FT Hot-dip galvanised

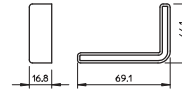
Angle profile, perforated on both sides, for creation of special support structures.

End cap

Type	Colour	Pack. pcs.	Weight		Item No.
			kg/100 pcs.	kg/100 pcs.	
WPK SR OR	Pastel orange	20	0.585		6372881
WPK SL OR	Pastel orange	20	0.576		6372898

PE Polyethylene

End cap to cover the ends of angle profile, type WE 40/65.



Slotted steel strap

Type	Dimension mm	Hole size mm	Length mm	Pack. m	Weight		Item No.
					kg/100 m	kg/100 m	
OSS 20x3 3M FT	20 x 3	6,5 x 40	3000	60	35.000		1465767
OSS 30x3 3M FT	30 x 3	8,5 x 60	3000	30	72.000		1465805
OSS 40x4 3M FT	40 x 4	8,5 x 70	3000	30	101.000		1465821

St Steel

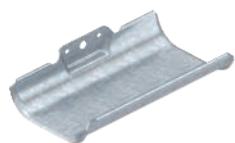
FT Hot-dip galvanised

Perforated slotted steel strap in strips.



Cable carrier trough system

Cable carrier trough, single, for individual routing

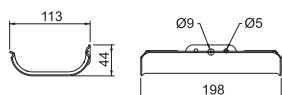


Type	Side	F in kN	Pack.	Weight	Item No.
	height	per trough		kg/100	
	mm	kN	pcs.	pcs.	
KTW 100 FT	44	0.35	1	48.000	6006890

- St Steel
- 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 carrier troughs



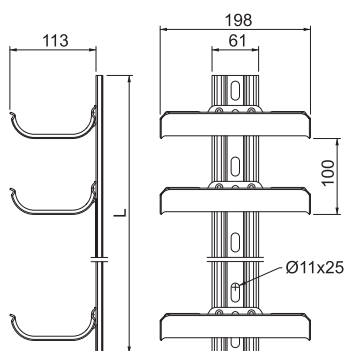
Type	Dimension L mm	Number of troughs	F in kN per trough	Pack. pcs.	Weight	Item No.
					kg/100 pcs.	
KTW 100 1 FT	140	1	0.5	1	6.100	6006901
KTW 100 2 FT	200	2	0.5	1	111.000	6006902
KTW 100 3 FT	300	3	0.5	1	168.000	6006903
KTW 100 4 FT	400	4	0.5	1	225.000	6006904
KTW 100 5 FT	500	5	0.5	1	361.000	6006905
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
- 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

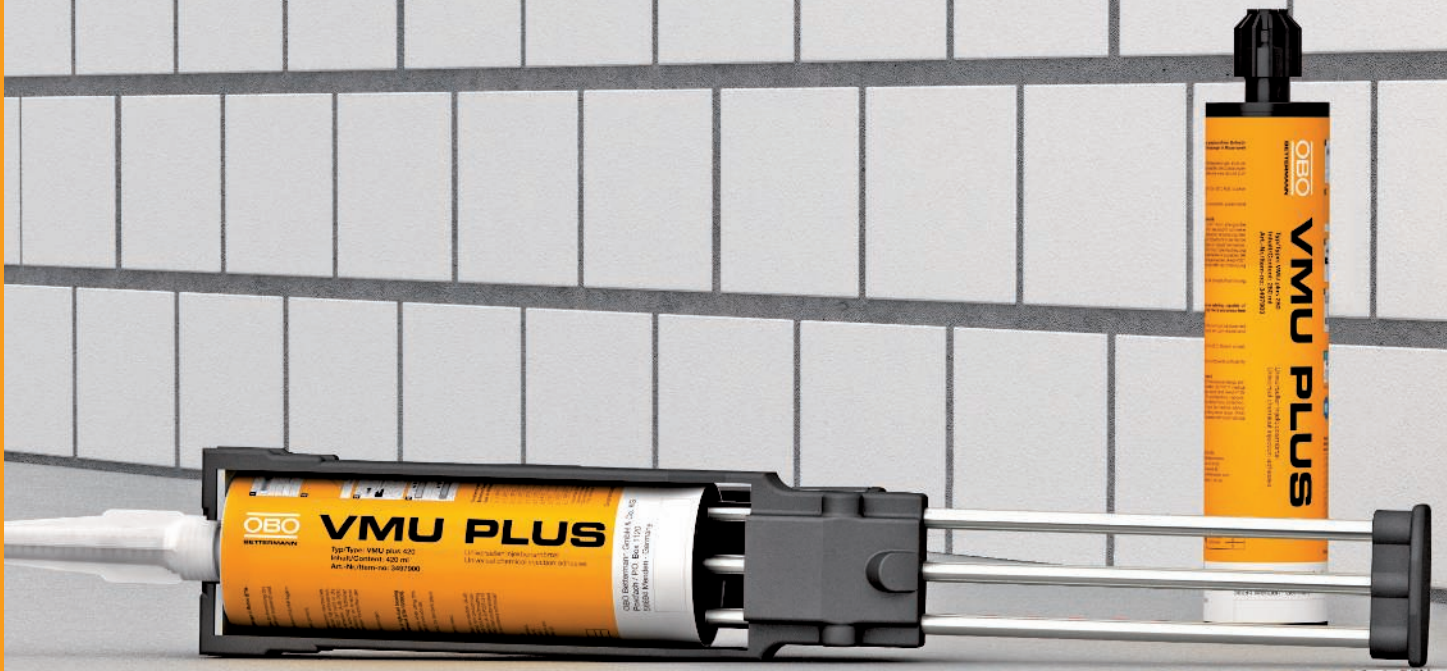


Load

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

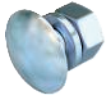
The specified values are based on concrete of resistance grade C25/30. Fastening anchor type: BZ 10-100-120. Comply with the installation conditions of the DIBt approval (anchors).





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Fastening systems



Screw and fastening systems

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Anchor systems

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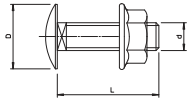
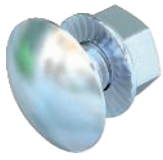


Earthing systems, surface refinement and edge protection

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Truss-head bolt with flange nut



Type	Dimension mm	Dimension L mm	Dimension d mm	Dimension 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 6x16 F	M 6 x 16	16	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	M 6 x 30	30	6	13.5	100	1.200	6406907

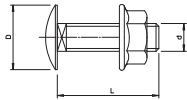
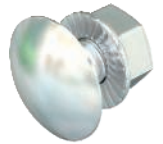
St Steel

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 combination nut.

Truss-head bolt with flange nut

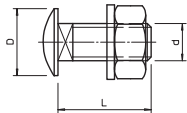
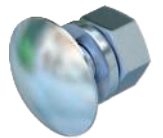


Type	Dimension mm	Dimension L mm	Dimension D mm	Dimension d mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
FRSB 6x12 A2	M 6 x 12	12	13.5	6	100	0.830	6406138
FRSB 6x16 A2	M 6 x 16	16	13.5	6	100	0.800	6406189
FRSB 6x20 A2	M 6 x 20	20	13.5	6	100	0.960	6406205
FRSB 6x12 A4	M 6 x 12	12	13.5	6	100	0.796	6406142
FRSB 6x16 A4	M 6 x 16	16	13.5	6	100	0.800	6406193
FRSB 6x20 A4	M 6 x 20	20	13.5	6	100	0.960	6406207

V2A Stainless steel, A2 V4A Stainless steel, A4

Truss-head bolt with square neck including flange nut.

Truss-head bolt with nut and washer



Type	Dimension mm	Dimension L mm	Dimension D mm	Resistance class	Pack. pcs.	Weight kg/100 pcs.	Item No.
FRS 8x16 F 8.8	M 8 x 16	16	20	8.8	50	2.200	6406963
FRS 8x16 F 5.6	M 8 x 16	16	20	5.6	50	2.000	6406939
FRS 8x20 F	M 8 x 20	20	20	—	50	2.100	6406971
FRS 8x25 F	M 8 x 25	25	20	8.8	50	2.300	6406998
FRS 8x35 F	M 8 x 35	35	20	—	50	2.700	6407048
FRS 10x20 F	M 10 x 20	20	24	—	50	4.100	6407471
FRS 10x25 F	M 10 x 25	25	24	5.6	50	4.500	6407528
FRS 10x25 F 8.8	M10 x 25	25	24	8.8	50	4.500	6407560
FRS 10x25 TPS F	M10 x 25	25	18	5.6	50	4.300	6407536
FRS 10x30 F	M 10 x 30	30	24	8.8	50	5.000	6407579
FRS 12x25 F	M12 x 25	25	30	—	10	6.400	6406254
FRS 12x30 F	M 12 x 30	30	30	—	20	6.800	6406270

St Steel

F Hot-dip galvanised

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

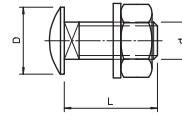
Truss-head bolt with square neck. With washer and hexagonal nut.

Truss-head bolt with nut and washer

Type	Dimension mm	Dimension L mm	Dimension D mm	Resistance class	Pack. pcs.	Weight kg/100 pcs.	Item No.
FRS 6x12 A2	M 6 x 12	12	13.5	A2-70	100	0.760	6406521
FRS 6x16 A2	M 6 x 16	15	13.5	A2-70	100	0.900	6406556
FRS 6x20 A2	M 6 x 20	20	13.5	A2-70	100	1.000	6406602
FRS 8x16 A2	M 8 x 16	16	20	A2-70	50	2.200	6406696
FRS 8x20 A2	M 8 x 20	20	20	A2-70	50	2.100	6406807
FRS 8x25 A2	M 8 x 25	25	20	A2-70	50	2.300	6406815
FRS 8x35 A2	M 8 x 35	35	20	A2-70	50	2.700	6406823
FRS 10x20 A2	M 10 x 20	20	24	A2-70	50	4.100	6406866
FRS 10x25 A2	M10 x 25	25	24	A2-70	50	4.500	6406718
FRS 10x30 A2	M10 x 30	30	24	A2-70	50	4.500	6406726
FRS 12x25 A2	M12 x 25	25	30	A2-70	25	6.400	6406750
FRS 12x30 A2	M 12 x 30	30	30	A2-50	25	6.800	6406769
FRS 6x12 A4	M 6 x 12	12	13.5	A4-70	100	0.820	6406564
FRS 6x16 A4	M 6 x 16	16	13.5	A4-70	100	0.900	6406580
FRS 6x20 A4	M 6 x 20	20	13.5	A4-70	100	1.000	6406610
FRS 8x16 A4	M8x16	16	20	A4-70	50	2.200	6406653
FRS 8x16 A4	M8x16	16	20	A4-70	50	2.200	6406698
FRS 12x25 A4	M 12 x 25	25	30	A4-70	25	6.400	6406785
FRS 10x20 A4	M 10 x 20	20	24	A4-70	50	4.000	6406870
FRS 10x20S A4	M 10 x 20	20	24	A4-70	50	4.100	6406872

V2A Stainless steel, A2 V4A Stainless steel, A4

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



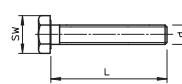
Hexagonal bolt ISO 4017

Type	Thread	Dimension mm	Dimension L mm	Dimension d mm	SW mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
HHS M8x20 G	M8	M 8 x 20	20	8	13	100	1.230	3158209
HHS M8x25 G	M8	M 8 x 25	25	8	13	100	1.390	3158241
HHS M8x30 G	M8	M 8 x 30	30	8	13	100	1.550	3158306
HHS M10x20 G	M10	M 10 x 20	20	10	17	100	2.320	3160203
HHS M10x30 G	M10	M 10 x 30	30	10	17	100	2.820	3160300
HHS M10x40 G	M10	M 10 x 40	40	10	17	50	3.240	3160408
HHS M10x50 G	M10	M 10 x 50	50	10	17	50	3.820	3160505
HHS M10x60 G	M10	M 10 x 60	60	10	17	50	4.330	3160602
HHS M12x30 G	M12	M 12 x 30	30	12	19	50	4.020	3162303
HHS M12x40 G	M12	M 12 x 40	40	12	19	50	4.740	3162400
HHS M12x50 G	M12	M 12 x 50	50	12	19	50	5.450	3162508

St Steel

G Electrogalvanised

Hexagonal bolt to ISO 4017 with metric thread



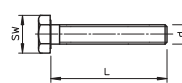
Hexagonal bolt with nut and washer

Type	Dimension mm	Dimension L mm	Dimension d mm	SW mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
SKS 6x12 F	M6 x 12	12	6	10	100	0.810	3156494
SKS 6x20 F	M6 x 20	20	6	10	100	0.900	3156516
SKS 6x30 F	M6 x 30	30	6	10	100	1.100	3156524

St Steel

F Hot-dip galvanised

Hexagonal bolt for universal fixing of structure components.



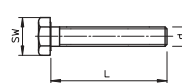
Hexagonal bolt with nut and washer

Type	Dimension mm	Dimension L mm	Dimension d mm	SW mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
SKS 8x16 F	M8 x 16	16	8	13	50	1.900	3158624
SKS 8x20 F	M8 x 20	20	8	13	50	1.500	3158632
SKS 8x30 F	M8 x 30	30	8	13	50	2.300	3158640

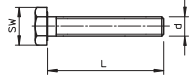
St Steel

F Hot-dip galvanised

Hexagonal bolt for universal fixing of structure components.



Hexagonal bolt



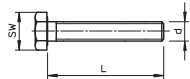
Type	Dimension mm	Dimen- sion L mm	Dimen- sion d mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 10x25 F	M10 x 25	25	10	17	50	4.200	3160734
SKS 10x30 F	M10 x 30	30	10	17	50	4.400	3160742
SKS 10x40 F	M10 x 40	40	10	17	50	4.900	3160750
SKS 10x60 F	M10 x 60	60	10	17	20	6.000	6408516
SKS 10x80 F	M10 x 80	80	10	17	20	7.700	6418250
SKS 10x90 F	M10 x 90	90	10	17	20	7.800	6418252
SKS 10x120 F	M10 x 120	120	10	17	20	13.500	3160793

St Steel

F Hot-dip galvanised

Hexagonal bolt for universal fixing of structure components.

Hexagonal bolt with nut and washer VA



Type	Dimension mm	Dimen- sion L mm	Dimen- sion d mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 10x30 A4	M10 x 30	30	10	17	50	3.000	3160752

V4A Stainless steel, A4

Hexagonal bolt for universal fixing of structure components.

Hexagonal bolt with nut and washer



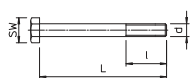
Type	Dimension mm	Dimen- sion L mm	Dimen- sion d mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 12x30 F	M12 x 30	30	12	19	20	7.200	3163091
SKS 12x40 F	M12 x 40	40	12	19	25	7.800	3163113
SKS 12x60 F	M12 x 60	60	12	19	25	9.000	3163156

St Steel

F Hot-dip galvanised

Hexagonal bolt for universal fixing of structure components.

Hexagonal bolt



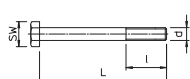
Type	Dimension mm	Dimen- sion L mm	Dimen- sion d mm	SW mm	Resistance class	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 12x80 F	M12 x 80	80	12	19	—	20	11.800	6418287
SKS 12x100 F	M12 x 100	100	12	19	—	20	12.600	6418295
SKS 12x110 F	M12 x 110	110	12	19	—	20	14.500	6418317
SKS 12x130 F	M12 x 130	130	12	19	—	20	15.500	6408478

St Steel

F Hot-dip galvanised

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

Hexagonal bolt with nut and washer, V2A



Type	Dimension mm	Dimen- sion L mm	Dimen- sion d mm	SW mm	Resistance class	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 12x80 A2	M12 x 80	80	12	19	A2-70	20	11.800	6418279
SKS 12x100 A2	M12 x 100	100	12	19	A2-70	20	12.000	6418368
SKS 12x110 A2	M12 x 110	110	12	19	A2-70	20	14.500	6418376

V2A Stainless steel, A2

Hexagonal bolt for universal fixing of structure components.

Screw-locking adhesive

Type	Contents ml	Pack. pcs	Weight		Item No.
			kg/100 pcs.	kg/100 pcs.	
Loctite 243	50	1	7.800		2362940

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.



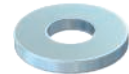
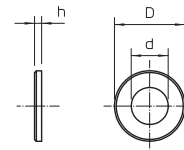
Washer

Type	Thread	Dimen- sion d mm	Dimen- sion D mm	Dimen- sion h mm	Pack. pcs	Weight		Item No.
						kg/100 pcs.	kg/100 pcs.	
WS M6 D12 G	M6	6.4	12	1.6	100	0.114		3402061
WS M8 D16 G	M8	8.4	16	1.6	100	0.214		3402088
WS M10 D20 G	M10	10.5	20	2	100	0.408		3402096
WS M12 D24 G	M12	13	24	2.5	100	0.627		3402126
WS M6 D12 A2	M6	6.4	12	1.6	100	0.114		3402304
WS M8 D16 A2	M8	8.4	16	1.6	100	0.214		3402312
WS M10 D20 A2	M10	10.5	20	2	100	0.408		3402320
WS M12 D24 A2	M12	13	24	2.5	100	0.627		3402339
WS M6 D12 A4	M6	6.4	12	1.6	100	0.114		3402306
WS M8 D16 A4	M8	8.4	16	1.6	100	0.214		3402314
WS M10 D20 A4	M10	10.5	20	2	100	0.408		3402322
WS M12 D24 A4	M12	13	24	2.5	100	0.627		3402345

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4

G Electrogalvanised

Washer according to DIN 125, shape A, for universal use.



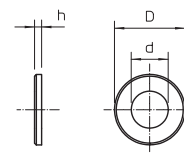
Washer

Type	Thread	Dimen- sion d mm	Dimen- sion D mm	Dimen- sion h mm	Pack. pcs	Weight		Item No.
						kg/100 pcs.	kg/100 pcs.	
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

F Hot-dip galvanised

Washer for universal use.



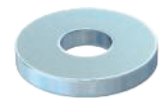
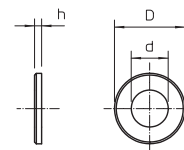
Washer ISO 7093

Type	Thread	Dimen- sion d mm	Dimen- sion D mm	Dimen- sion h mm	Pack. pcs	Weight		Item No.
						kg/100 pcs.	kg/100 pcs.	
WS M6 D28 G	M6	6.5	28	2.5	100	1.150		3402207
WS M8 D28 G	M8	8.5	28	2.5	100	1.100		3402215
WS M10 D28 G	M10	11	28	2.5	100	1.020		3402223

St Steel

G Electrogalvanised

Washer of large outer diameter for universal use.



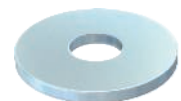
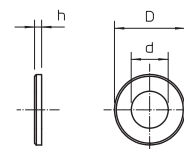
Large washer

Type	Thread	Dimen- sion d mm	Dimen- sion D mm	Dimen- sion h mm	Pack. pcs	Weight		Item No.
						kg/100 pcs.	kg/100 pcs.	
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

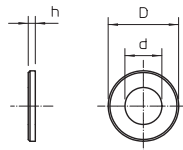
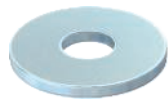
St Steel

F Hot-dip galvanised

Washer of particularly large outer diameter.



Large washer steel



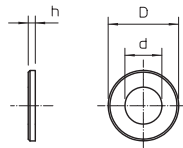
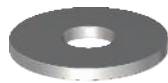
Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WS M4 G15 G	M4	4.3	15	1.2	100	0.156	3403025
WS M5 G20 G	M5	5.3	20	1.2	100	0.274	3403041
WS M6 G25 G	M6	6.4	25	1.2	100	0.415	3403084
WS M6 G30 G	M6	6.4	30	1.3	100	0.675	3403092
WS M6 G20 G	M6	6.4	20	1.5	100	0.262	3403076
WS M8 G25 G	M8	8.4	25	1.2	100	0.370	3403130
WS M8 G20 G	M8	8.4	20	1.5	100	0.240	3403122
WS M10 G30 G	M10	10.5	30	1.5	100	0.592	3403165

St Steel

G Electrogalvanised

Washer of particularly large outer diameter.

Large washer, V2A

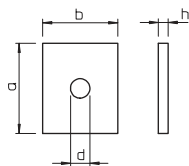
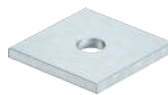


Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WS M8 D20 A2	M8	8.4	20	1.5	100	0.240	3403125
WS M8 D25 A2	M8	8.4	25	1.2	100	0.370	3403135
WS M8 D40 A2	M8	8.5	40	1.5	100	0.370	3403145
WS M10 D30 A2	M10	10.5	30	1.5	100	0.592	3403155
WS M10 D40 A2	M10	10.5	40	1.5	100	0.592	3403175
WS M8 D20 A4	M8	8.4	20	1.5	100	0.240	3403127
WS M8 D25 A4	M8	8.4	25	1.2	100	0.370	3403137
WS M8 D40 A4	M8	8.4	40	1.5	100	0.370	3403147
WS M10 D30 A4	M10	10.5	30	1.5	100	0.592	3403163
WS M10 D40 A4	M10	10.5	40	1.5	100	0.592	3403177

V2A Stainless steel, A2 **V4A** Stainless steel, A4

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.

Counter plate



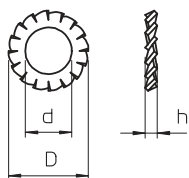
Type	Dimension a mm	Dimension b mm	Dimension d mm	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
K 60 FT	60	50	13	6.5	10	15.000	6348408
K 70 FT	70	70	17	6.5	10	24.000	6348440

St Steel

FT Hot-dip galvanised

Counter plate to increase the contact surface for pass-through installation of brackets and supports.

Serrated washer DIN 6798



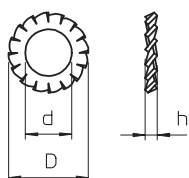
Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SWS M6 G	M6	6.4	11	2.1	100	0.036	3404064
SWS M8 G	M8	8.4	15	2.4	100	0.080	3404080
SWS M10 G	M10	10.5	18	2.7	100	0.125	3404102
SWS M12 G	M12	13	20.5	3	100	0.160	3404129

St Steel

G Electrogalvanised

Serrated washer to DIN 6798, shape A.

Serrated washer DIN 6798 A2



Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SWS M6 A2	M6	6.4	11	2.1	100	0.040	3404331
SWS M8 A2	M8	8.4	15	2.4	100	0.080	3404358

V2A Stainless steel, A2

Serrated washer to DIN 6798, shape A.

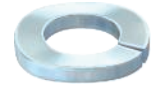
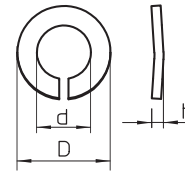
Lock washer

Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LWS M6 G	M6	6.3	11.8	2.1	100	0.070	3405060
LWS M8 G	M8	8.3	14.8	2.6	100	0.130	3405087
LWS M10 G	M10	10.5	18.1	3	100	0.210	3405109
LWS M12 G	M12	12.5	21.1	3.5	100	0.320	3405125

St Steel

G Electrogalvanised

Lock washer according to DIN 128, shape A.



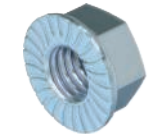
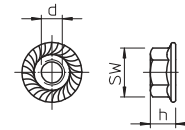
Flange nut

Type	Dimension d mm	Dimension h mm	SW mm	Resistance class	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

F Hot-dip galvanised G Electrogalvanised

Combination nut with washer based on EN 1661.

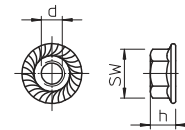


Combination nut, V2A

Type	Dimension d mm	Dimension h mm	SW mm	Resistance class	Pack. pcs	Weight kg/100 pcs.	Item No.
KM M6 A2	6	6	10	A2-70	100	0.315	6408966
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
KM M6 A4	6	6	10	A4-70	100	0.315	6408970

V2A Stainless steel, A2 V4A Stainless steel, A4

Nut with pressed washer.

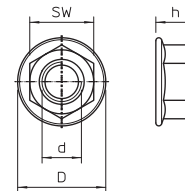


Hexagonal nut with underhead tothing DIN 6923 V2A

Type	Thread	SW mm	Dimension h mm	Dimension d mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KM M8 A2	M8	13	8	17.9	100	0.800	3156120
KM M10 A2	M10	17	10	21.8	50	1.320	3156122
KM M12 A2	M12	19	12	26	50	2.100	3156126

V2A Stainless steel, A2

Combination nut with pressed washer in accordance with EN 1661.



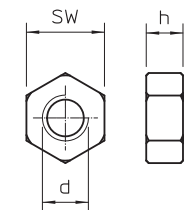
Hexagonal nut DIN 934 G

Type	Thread	SW mm	Dimension h mm	Dimension d mm	Pack. pcs	Weight kg/100 pcs.	Item No.
HN M6 G	M6	10	5.2	6	100	0.225	3400069
HN M8 G	M8	13	6.8	8	100	0.474	3400085
HN M10 G	M10	17	8.4	10	100	1.084	3400107
HN M12 G	M12	19	10.8	12	100	1.730	3400123

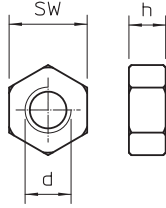
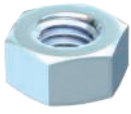
St Steel

G Electrogalvanised

Hexagonal nut to DIN 934 with metric thread.



Hexagonal nut



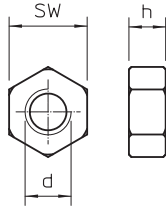
Type	Thread	SW mm	Dimen- sion h mm	Dimen- sion d mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN934 M6 F	M6	10	5.2	6	100	0.250	3400344
DIN934 M8 F	M8	13	6.8	8	100	0.520	3400352
DIN934 M10 F	M10	17	8.4	10	100	1.160	3400360
DIN934 M12 F	M12	19	10.8	12	100	1.730	3400379

St Steel

F Hot-dip galvanised

Hexagonal nut to DIN 934 with metric thread.

Hexagonal nut DIN 934 V2A



Type	Thread	SW mm	Dimen- sion h mm	Dimen- sion d mm	Pack. pcs	Weight kg/100 pcs.	Item No.
HN M6 A2	M6	10	5.2	6	100	0.250	3397068
HN M8 A2	M8	13	6.8	8	100	0.520	3397084
HN M10 A2	M10	17	8.4	10	100	1.160	3397106
HN M12 A2	M12	19	10.8	12	100	1.730	3397114

V2A Stainless steel, A2

Hexagonal nut to DIN 934 with metric thread.



Nail anchor N with thread

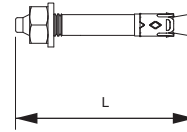
Type	Thread	Bore hole		Clamping range	Dimension L	Pack. pcs.	Weight kg/100 pcs.	Item No.
		mm	mm					
N 6-5-10/49	M6	6	40	5 - 10	49	100	1.160	3498396

St Steel

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 bolt tie with even easier mounting. The nail tie only needs to be hammered into the drill hole. It is not necessary to apply torque subsequently. When the load occurs, the nail tie spreads itself and bolts itself in the drill hole.



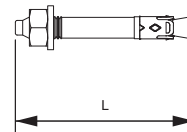
Nail anchor N with thread, V4A

Type	Thread	Bore hole		Fixture thickness	Dimension L	Pack. pcs.	Weight kg/100 pcs.	Item No.
		mm	mm					
N 6-5/49 A4	M6	6	40	5	49	50	1.200	3498399

V4A Stainless steel, A4

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.



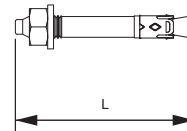
Nail tie N V5A

Type	Thread	Bore hole		Fixture thickness	Dimension L	Pack. pcs.	Weight kg/100 pcs.	Item No.
		mm	mm					
N 6-5/49 HCR	M6	6	40	5	49	50	1.200	3498398

V5A Stainless steel, A5

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 in areas with highly corrosive impacts 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

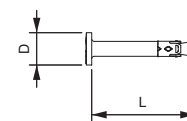
Type	Bore hole	Clamping range	Dimension L	Dimension D	Pack. pcs.	Weight kg/100 pcs.	Item No.	
								mm
N-K 6-5-10/44	6	40	5 - 10	44	13	100	1.135	3498390

St Steel

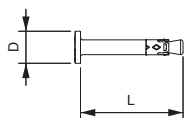
G Electrogalvanised

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, V4A

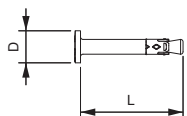


Type	Bore hole	Bore hole	Fixture	Dimen-	Dimen-	Pack.	Weight	Item No.
	Ø	depth	thickness	sion L	sion D		kg/100	
	mm	mm	mm	mm	mm	pcs	pcs.	
N-K 6-5/44 A4	6	40	5	44	13	50	1.140	3498393
V4A Stainless steel, A4								

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.

Nail tie N-K V5A



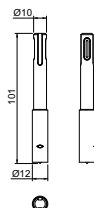
Type	Bore hole	Bore hole	Fixture	Dimen-	Dimen-	Pack.	Weight	Item No.
	Ø	depth	thickness	sion L	sion D		kg/100	
	mm	mm	mm	mm	mm	pcs	pcs.	
N-K 6-5/44 HCR	6	40	5	44	13	50	1.135	3498392
V5A Stainless steel, A5								

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 in areas with highly corrosive impacts 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.

Setting tool for Nail anchor



Type	Pack.	Weight	Item No.
		kg/100	
	pcs	pcs.	
N-K SWZ SDS	1	5.000	3498314
S Steel			
G Electrogalvanised			

Setting tool for nail tie, type N-K, with SDS plus seat.



Bolt tie BZ

Type	Thread	Dimension L mm	Weight		Item No.
			Pack. pcs	kg/100 pcs.	
BZ 8-100-111/165	M8	165	50	5.700	3498341
BZ 10-75-95/155	M10	155	50	8.900	3498345
BZ10-100-120/180	M10	180	25	10.320	3498342
BZ 10-150/230	M10	230	25	13.600	3498344
BZ 12-15-35/110	M12	110	25	10.320	3498350
BZ 12-85-105/180	M12	180	25	14.900	3498354
BZ12-105-125/200	M12	200	25	16.400	3498356
BZ 12-160/255	M12	255	20	22.400	3498358
BZ 16-15-35/135	M16	135	20	21.600	3498360

St Steel

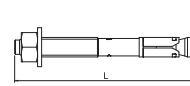
G Electrogalvanised

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 Characteristics	Anchoring depth	Bore hole Ø	Bore hole depth	Clamping strength	Approved load area, tension zone
	mm	mm	mm	mm	kN
M 8-100/165	46	8	60	100	2.4
M 10-75/155	60	10	75	75	4.3
M 10-100/180	60	10	75	100	4.3
M 10-150/230	60	10	75	150	4.3
M 12-15/110	70	12	90	15	7.6
M 12-85/180	70	12	90	85	7.6
M 12-105/200	70	12	90	105	7.6
M 12-160/255	70	12	90	160	7.6
M 16-15/135	85	16	110	15	11.9

Reduced anchoring depth

Loads and Characteristics	Anchoring depth	Bore hole Ø	Bore hole depth	Clamping strength	Approved load area, tension zone
	mm	mm	mm	mm	kN
M 8-111/165	35	8	49	111	2.4
M 10-95/155	40	10	55	95	3.6
M 10-120/180	40	10	55	120	3.6
M 12-35/110	50	12	70	35	6.1
M 12-105/180	50	12	70	105	6.1
M 12-125/200	50	12	70	125	6.1
M 16-35/135	65	16	90	35	9.0

Bolt tie BZ, V4A

Type	Thread	Dimension L mm	Weight		Item No.
			Pack. pcs	kg/100 pcs.	
BZ12-15-35/110A4	M12	110	25	10.440	3498352

V4A Stainless steel, A4

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

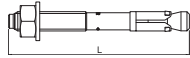
Standard anchoring depth

Loads and Characteristics	embedment depth	Bore hole Ø	Bore hole depth	Clamping strength	Approved load area, tension zone
	mm	mm	mm	mm	kN
M 12-15/110	70	12	90	15	7.6

Reduced anchoring depth

Loads and Characteristics	embedment depth	Bore hole Ø	Bore hole depth	Clamping strength	Approved load area, tension zone
	mm	mm	mm	mm	kN
M 12-35/110	50	12	70	35	6.1

Bolt tie BZ V5A



Type	Thread	Dimension L mm	Weight		Item No.
			Pack. pcs	kg/100 pcs	
BZ 8-10-21/75HCR	M8	75	100	3.080	3498516
BZ10-10-30/90HCR	M10	90	50	6.040	3498556

V5A Stainless steel, A5

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 in areas with highly corrosive impacts, both in cracked and non-cracked concrete. It combines high approved loads with small edge distances and axial spacings.

Load

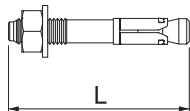
Standard anchoring depth

Loads and characteristic values	M 8-10/75	M 10-10/90	M 12-15/110	M16
Standard anchoring depth	46	60	70	-
Bore hole Ø	8	10	12	-
Bore hole depth	60	75	90	-
Clamping strength	10	10	15	-
App. load area, tension zone	KN 2.4	4.3	7.6	-

Reduced anchoring depth

Loads and characteristic values	M 8-21/75	M 10-30/90	M 12-35/110	M16
Reduced anchoring depth	35	40	50	-
Bore hole Ø	8	10	12	-
Bore hole depth	49	55	70	-
Clamping strength	21	30	35	-
App. load area, tension zone	KN 2.4	3.6	6.1	-

Bolt tie BZ s



Type	Thread	Dimension L mm	Weight		Item No.
			Pack. pcs	kg/100 pcs	
BZ 8-11/65 s	M8	65	100	2.600	3498410
BZ 10-10/70 s	M10	70	50	4.700	3498412
BZ 12-10/85 s	M12	85	25	8.100	3498414

Sl Steel

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 Berne, Switzerland.

Wedge anchor BZ with reduced anchoring depth 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

Reduced anchoring depth

Loads and Characteristics	Anchoring depth	Bore hole Ø	Bore hole depth	Clamping strength	Approved load area, tension zone
	mm	mm	mm	mm	kN
M 8-11/65	35	8	49	11	2,4
M 10-10/70	40	10	55	10	3,6
M 12-10/85	50	12	70	10	6,1

Bolt tie BZ-U

Type	Thread	Dimension L mm	Pack. pcs.	Weight	
				kg/100	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

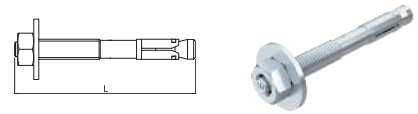
G Electrogalvanised

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.

Bolt tie 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 Characteristics	Anchoring depth	Bore hole Ø	Bore hole depth	Clamping strength	Approved load area, tension zone
	mm	mm	mm	mm	kN
M 8-10/75	46	8	60	10	2,4
M 8-30/75	46	8	60	30	2,4
M 10-10/90	60	10	75	10	4,3
M 10-30/110	60	10	75	30	4,3

Reduced anchoring depth

Loads and Characteristics	Anchoring depth	Bore hole Ø	Bore hole depth	Clamping strength	Approved load area, tension zone
	mm	mm	mm	mm	kN
M 8-21/75	35	8	49	21	2,4
M 8-41/95	35	8	49	41	2,4
M 10-30/90	40	10	55	30	3,6
M 10-50/110	40	10	55	50	3,6

Bolt tie BZ-U, V4A

Type	Thread	Dimension L mm	Pack. pcs.	Weight	
				kg/100	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

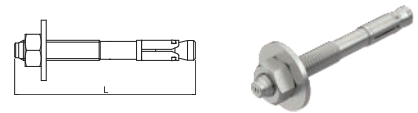
V4A Stainless steel, A4

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

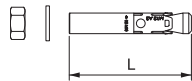
Loads and Characteristics	Anchoring depth	Bore hole Ø	Bore hole depth	Clamping strength	Approved load area, tension zone
	mm	mm	mm	mm	kN
M 8-10/75	46	8	60	10	2,4
M 8-30/75	46	8	60	30	2,4
M 10-10/90	60	10	75	10	4,3

Reduced anchoring depth

Loads and Characteristics	Anchoring depth	Bore hole Ø	Bore hole depth	Clamping strength	Approved load area, tension zone
	mm	mm	mm	mm	kN
M 8-21/75	35	8	49	21	2,4
M 8-41/95	35	8	49	41	2,4
M 10-30/90	40	10	55	30	3,6



Bolt tie BZ-IG



Type	Thread	Bore hole Ø mm	Bore hole depth mm	Dimension 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
- G** Electrogalvanised

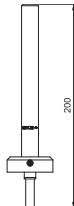
European technical approval ETA-99/0010, including characteristic values under fire exposure to fire resistance R 120.

Shock approval by the Federal Office for Civil Protection in Bern, Switzerland.

Bolt tie 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.

Tool set BZ-IG

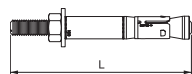


Type	Thread	Pack. pcs	Weight kg/100 pcs.	Item No.
BZ-IGS M 6V	M6	1	39.400	3498380
BZ-IGS M 8V	M8	1	38.300	3498382
BZ-IGS M 10V	M10	1	40.600	3498384
BZ-IGS M 12V	M12	1	42.100	3498386

- St** Steel
- G** Electrogalvanised

Setting tool BZ-IGS for push-through installation.

High-load anchor SZ-B



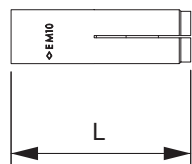
Type	Thread	Bore hole Ø mm	Bore hole depth mm	Dimension L mm	Fixture thickness mm	Perm. load range, tension zone kN	Pack. pcs	Weight kg/100 pcs.	Item No.
SZ-B 18/0x142	M12	18	105	142	30	12.3	20	21.123	3498752

- St** Steel
- 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.

Drop-in anchor E



Type	Thread	Screw-in depth min.-max. mm	Bore hole Ø mm	Bore hole depth mm	Dimension 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
- 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, V4A

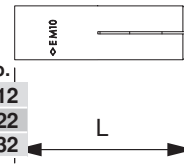
Type	Thread	Screw-in depth		Bore hole Ø	Bore hole depth	Dimen- sion L	Perm. load range, tension zone	Pack. pcs.	Weight kg/100 pcs.	Item No.
		min.	max.							
E M 8x40 A4	M8	9	20	10	40	40	2	50	1.490	3492912
E M 10x40 A4	M10	11	15	12	40	40	2	50	2.160	3492922
E M 12x50 A4	M12	13	18	15	50	50	2.4	50	4.380	3492932

V4A Stainless steel, A4

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.



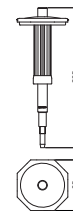
Setting tool for drop-in anchor

Type	Length		Thread	Pack. pcs.	Weight kg/100 pcs.	Item No.
	mm	mm				
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

G Electrogalvanised

Setting tool with hand protection for drop-in anchor of the type E.



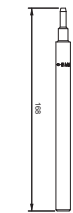
Setting tool for drop-in anchor

Type	Length		Thread	Pack. pcs.	Weight kg/100 pcs.	Item No.
	mm	mm				
E-SW 6x30	168		M6	1	51.000	3492990

St Steel

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.



Hollow core anchor Easy

Type	Thread	Bore hole		Dimen- sion L	Pack. pcs.	Weight kg/100 pcs.	Item No.
		Ø	depth				
Easy M6	M6	10	40		50	1.000	3498768
Easy M8	M8	12	44		25	1.500	3498770
Easy M10	M10	16	53		25	3.320	3498774
Easy M12	M12	18	58		25	4.230	3498776

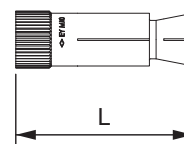
St Steel

G Electrogalvanised

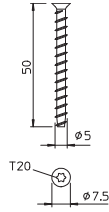
General type approval Z-21.1-1785 granted by the German Institute for civil engineering (DIBt), Berlin, including permissible loads when exposed to fire up to a fire resistance duration of 120 minutes.

Hollow core anchor "Easy" for mounting in prestressed hollow concrete slabs. When the screw or the nut is tightened, the cone 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

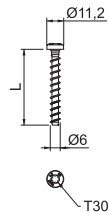


Type	Dimension mm	Anchor length mm	Bore hole Ø mm	Head Ø mm	Screw system	Weight		Item No.
						Pack. pcs	kg/100 pcs.	
MMS-plus KS 5x50	5 x 50	50	4	7.5	Torx	200	0.460	3498204

- St** Steel
- G** Electrogalvanised

Screw 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.

Fire protection screw tie



Type	Dimension mm	Screw system	Weight		Item No.
			Pack. pcs	kg/100 pcs.	
MMS-plus 6X50	6 x 50	Torx	100	1.000	3498108

- St** Steel
- G** Electrogalvanised

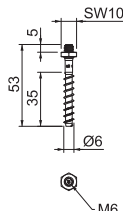
Substrate

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 installation without additional anchors. Drive T30, drill hole 5 mm. Tested anchor according to ETAG 001 - Part 3. Fire resistance class to R120 for concrete and masonry.

MMS-ST with thread

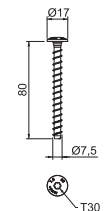


Type	Dimension mm	Anchor length mm	Bore hole Ø mm	SW Thread mm	Weight		Item No.
					Pack. pcs	kg/100 pcs.	
MMS-plus ST 6x55	6x55	60	5	M6 10	100	1.030	3498264

- St** Steel
- G** Electrogalvanised

Fire protection bolt tie with M6 thread and hexagonal head for direct mounting without additional anchors. WAF 10, drill hole 5 mm. Tested anchor according to ETAG 001 - Part 3. Fire resistance class to R120 for concrete and masonry.

Bolt tie

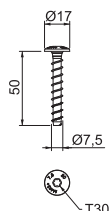


Type	Dimension mm	Anchor length mm	Bore hole Ø mm	Head Ø mm	Screw system	Weight		Item No.
						Pack. pcs	kg/100 pcs.	
MMS-plus 7.5X80	7,5 x 80	80	6	13.2	Torx	50	1.600	3498272

- St** Steel
- G** Electrogalvanised

Fire protection bolt tie with pan head for direct mounting without anchors. Drive T40, drill hole 6 mm. Tested anchor according to ETAG 001 - Part 3. Fire resistance class to R120 for concrete and masonry.

Fire protection screw tie



Type	Dimension mm	Anchor length mm	Bore hole Ø mm	Head Ø mm	Screw system	Weight		Item No.
						Pack. pcs	kg/100 pcs.	
MMS-plus 7.5X50	7,5 x 50	50	6	17	Torx	100	1.500	3498261

- St** Steel
- G** Electrogalvanised

Fire protection bolt tie with large pan head for direct mounting without additional anchors. Drive T30, drill hole 6 mm. Tested anchor according to ETAG 001 - Part 3. Fire resistance class to R120 for concrete and masonry.

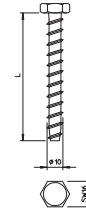
MMS hex

Type	Dimension mm	Dimension L mm	Bore hole Ø mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MMS-plus 10x80	10 x 80	80	8	13	25	4.000	3498124
MMS-plus 10x100	10 x 100	100	8	13	25	4.800	3498159

St Steel

G Electrogalvanised

Fire protection bolt tie with hexagonal head for direct mounting without additional anchor. WAF 13, drill hole 8 mm. Tested anchor according to ETAG 001 - Part 3. Fire resistance class to R120 for concrete and masonry.



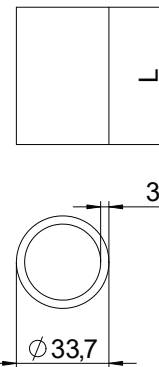
Spacer sleeve for insulated ceilings

Type	Dimension 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

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.



Injection mortar in cartridge, 280 ml

Type	Contents ml	Pack. pcs	Weight kg/100 pcs.	Item No.
VMU plus 280	280	1	56.000	3497800

The injection mortar VMU is a 2-component mortar, which sticks the anchor rods and internal thread sleeves in concrete or masonry without any spreading pressure. Depending on the size of the means of fastening, loads of different magnitudes can be fastened to the anchor rods or internal thread sleeves.

The injection mortar possesses a European technical approval (ETA) for cracked and uncracked concrete, as well as for masonry of full or hollow brick. It is earthquake-proof according to performance category C1 and has fire protection approvals for concrete and masonry with a fire resistance class up to 120 minutes.

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.



Installation



Injection mortar in cartridge, 420 ml



Type	Contents ml	Weight		Item No.
		Pack. pcs	kg/100 pcs.	
VMU plus 420	420	1	83.000	3497803

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 Assessment 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 $-10\text{ }^{\circ}\text{C}$ to $+40\text{ }^{\circ}\text{C}$ (concrete), ambient temperature after complete hardening $-40\text{ }^{\circ}\text{C}$ to $+120\text{ }^{\circ}\text{C}$ (in concrete). If stored in a dark, cool and dry place, will keep for at least 18 months.

Installation

Hardening times according to the substrate temperature

Temperature [$^{\circ}\text{C}$]	-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 $+15\text{ }^{\circ}\text{C}$!

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	Weight		Item No.
	Pack. pcs	kg/100 pcs.	
VM-P 345 Profi	1	100.000	3497906

Plastic

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	Weight		Item No.
	Pack. pcs	kg/100 pcs.	
VM-P 380 Profi	1	110.000	3497909

Plastic

High-quality 2-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.

Anchor rod



Type	Dimension		SW Thread	SW mm	Weight		Item No.
	L mm	d mm			Pack. pcs	kg/100 pcs.	
VMU-A 8-110vz	110	6.5	M8	13	10	4.350	3497820
VMU-A 10-130vz	130	8.2	M10	17	10	8.150	3497822
VMU-A 10-150vz	150	8.2	M10	17	10	9.150	3497824
VMU-A 12-155vz	155	9.9	M12	19	10	13.850	3497826

St Steel

G Electrogalvanised

With the anchor rod and matching plastic wire sleeve, loads are fastened without spreading pressure in masonry walls using the VMS plus injection mortar. The system is also used for fastening in concrete ceilings. On concrete and full brick walls, the anchor rod is only mounted with the injection mortar VMU plus, without a wire sleeve.

Installation

Characteristic mounting and measurement values

Threaded rod		VMU-AH	VMU-AH	VMU-AH	VMU-AH	VMU-AH	VMU-AH
		6-65vz	8-65vz	8-120vz	10-140vz	10-160vz	12-165vz
eff. anchoring depth	mm	49	49	93	93	93	93
Drill hole \varnothing	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	VMU-SH	VMU-SH	VMU-SH	VMU-SH	VMU-SH
		12x50	12x50	18x95	18x95	18x95	18x95

* Masonry anchoring basis: Hollow brick HLZ, 2DF; according to DIN 105, EN 771-1

Load values for other anchoring bases on request

Anchor rod

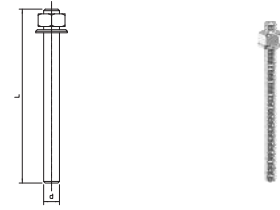
Type	Dimension L mm	Dimension d mm	Thread	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
VMU-A 8-110A4	110	6.5	M8	13	10	4.350	3497830
VMU-A 10-130A4	130	8.2	M10	17	10	8.150	3497832
VMU-A 12-155A4	155	9.9	M12	19	10	13.850	3497834

With the anchor rod and matching plastic wire sleeve, loads are fastened without spreading pressure in masonry walls using the VMS plus injection mortar. The system is also used for fastening in concrete ceilings. On concrete and full brick walls, the anchor rod is only mounted with the injection mortar VMU plus, without a wire sleeve.

Characteristic mounting and measurement values

Threaded 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
Appr. 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



Installation

Plastic wire sleeve

Type	Dimension L mm	Dimension d mm	Pack. pcs	Weight kg/100 pcs.	Item No.
VMU-SH 12x80	80	12	10	0.200	3497860
VMU-SH 16x85	85	16	10	0.300	3497862
VMU-SH 16x130	130	16	10	0.400	3497864
VMU-SH 20x85	85	20	10	0.400	3497866

PA Polyamide

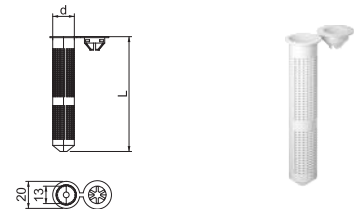
The plastic wire sleeve is a supplement to the anchor rod or internal thread sleeve and is used to mount loads on masonry.

The plastic wire sleeve VM-SH 12x80 is mounted with the anchor rod VMU-A 8x110.

The plastic wire sleeve VM-SH 16x85 is mounted with the anchor rods VMU-A 10x130 and VMU-A 10x150 or the internal thread sleeve VMU-IG M6x80.

The plastic wire sleeve VM-SH 16x130 is mounted with the anchor rod VMU-A 10x150.

The plastic wire sleeve VM-SH 20x85 is mounted with the anchor rod VMU-A 12x155 or the internal thread sleeve VMU-IG M8x80 and VMU-IG M10x80.



Perforated sleeve, metal

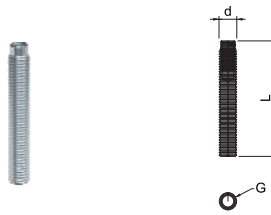
Type	Dimension L mm	Dimension d mm	Pack. pcs	Weight kg/100 pcs.	Item No.
VM-SH 12x1000	1000	12	1	6.000	3497972
VM-SH 16x1000	1000	16	1	7.000	3497975
VM-SH 22x1000	1000	22	1	10.000	3497978

St Steel

Metal wire sleeve for use in hollow brick and stones in combination with injection mortar system VMU plus.



Metallic internal thread sleeve



Type	Dimension L mm	Dimension d mm	Thread metric	Pack. pcs	Weight		Item No.
					kg/100 pcs.		
VMU-IG M6x80vz	80	10	6	10	3.350		3497840
VMU-IG M8x80vz	80	12	8	10	4.650		3497842
VMU-IG M10x80vz	80	16	10	10	8.750		3497844
VMU-IG M6x80A4	80	10	6	10	3.350		3497850
VMU-IG M8x80A4	80	12	8	10	4.650		3497852
VMU-IG M10x80A4	80	16	10	10	8.750		3497854

St Steel

G Electrogalvanised

With the internal thread sleeve and matching plastic wire sleeve, loads are fastened without spreading pressure in concrete and masonry walls and ceilings using the VMS plus injection mortar.

The internal thread sleeve VMU-IG M6x80 mm is mounted using the plastic wire sleeve VM-SH 16x85.

The internal thread sleeves VMU-IG M8x80 and VMU-IG M10x80 mm are mounted using the plastic wire sleeve VM-SH 20x85.

Blow pump for drill holes



Type	Pack. pcs	Weight		Item No.
		kg/100 pcs.		
VM-AP 360	1	27.000		3497912

Plastic

Manual pump with 750 ml air volume to blowing out drill holes according to anchor approval.

Steel cleaning brush for drill holes



Type	Diameter mm	Length mm	Thread	Pack. pcs	Weight		Item No.
					kg/100 pcs.		
RB 10 M 6	10	130	M6	1	5.000		3497870
RB 12 M 6	12	140	M6	1	5.000		3497872
RB 14 M 6	14	180	M6	1	5.000		3497874
RB 18 M 6	18	200	M6	1	5.000		3497876

St Steel

G Electrogalvanised

Using the steel wire brush, drill holes must be mechanically cleaned according to the anchor approval, in order to obtain a clean adhesion substrate for the injection mortar.

The steel wire brush is fixed to an SDS adapter with a threaded connection, in order to clean the drill holes with a drill.

SDS adapter



Type	Pack. pcs	Weight		Item No.
		kg/100 pcs.		
RBL M6 SDS	1	6.000		3497915

St Steel

Adapter for accepting steel wire brushes for mechanical cleaning of drill holes according to the anchor approval. Suitable for drills with SDS seat.

SDS extension



Type	Length mm	Pack. pcs	Weight		Item No.
			kg/100 pcs.		
RB-L 150 M6	150	1	9.700		3497932

St Steel

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		Item No.
		kg/100 pcs.	pcs.	
VM-X	12	1.000		3497981

PA Polyamide

Mixing tubes for attachment to the cartridges of the VMU plus injection mortar system.



Extension pipe

Type	Length mm	Pack. pcs.	Weight		Item No.
			kg/100 pcs.	pcs.	
VM-XE 10/200	200	12	1.000		3497984
VM-XE 10/500	500	10	2.000		3497987

PA Polyamide

Fixed length extension tube for use on the mixing tube tips in the VMU plus injection mortar system.



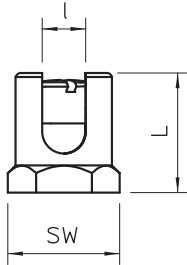
Earthing terminal with fastening thread



Type	Dimen- sion L mm	Dimen- sion I mm	Cross- section mm ²	Thread	Weight		Item No.
					Pack. pcs	kg/100 pcs.	
EKL 25 M6	22	8	25	M6	50	3.100	6404006
EKL 35 M6	26	10	35	M6	50	4.800	6404014
EKL 25 M8	26	10	25	M8	50	3.970	6404001

CuZn Brass

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



Zinc repairs

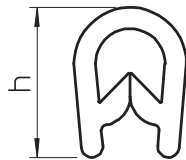


Type	Weight		Item No.
	Pack. pcs	kg/100 pcs.	
ZSF	1	45.000	2362970

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	Dimen- sion h mm	Weight		Item No.
			Pack. m	kg/100 m	
KSB 2 PVC	0.75 - 2	10	10	8.000	6072909
KSB 4 PVC	1.5 - 4	15	10	14.000	6072895

PVC Polyvinylchloride

Edge protection strip with steel inlay to cover cut plate ends. Black, UV-resistant version.



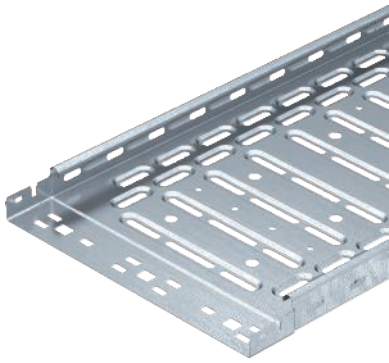


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Cable tray systems, Magic

	Side height 35 mm	130
	Side height 60 mm	134
	Side height 85 mm	153
	Side height 110 mm	163
	System accessories 35, 60, 85, 110	177

Cable tray RKS-Magic®



Type	Plate		Pack.	Weight		Item No.
	Width mm	thickness mm		m	kg/100 m	
RKSM 310 FS	100	0.75	3	104.330	6047417	
RKSM 320 FS	200	0.75	3	149.840	6047433	
RKSM 330 FS	300	0.75	3	209.840	6047460	

St Steel

FS Strip-galvanised

Continuous equipotential bonding is guaranteed without additional components.

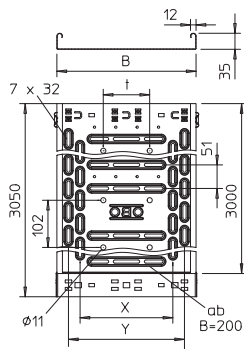
Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.

The cable tray possesses continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.

The perforation for direct threaded rod suspension has a diameter of 11 mm.

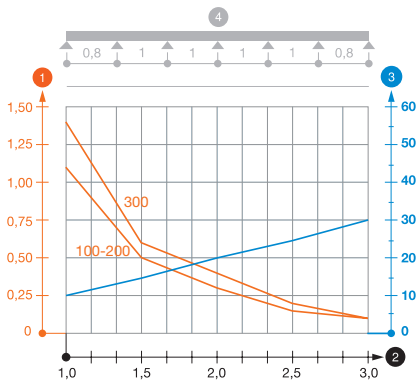
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Dimensions



Type	Length mm	Dimen- sion B mm	Useful cross- section cm ²	Dimen- sion x mm	Dimen- sion y mm
RKSM 320 FS	3050	200	68	100	150
RKSM 330 FS	3050	300	103	200	250

Load



Type	1.0 m	1.5 m	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
RKSM 310 FS	1.1	0.5	0.3	0.15	0.1
RKSM 320 FS	1.1	0.5	0.3	0.15	0.1
RKSM 330 FS	1.4	0.6	0.4	0.2	0.1

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

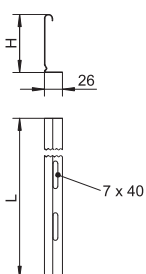


Type	Dimen- sion H mm	Plate thickness mm	Dimen- sion L mm	Pack. m	Weight		Item No.
					kg/100 m		
TSG 30 FS	30	0.75	3000	3	38.000	6062050	

St Steel

FS Strip-galvanised

Barrier strip for separation of cables of different voltages or functions.

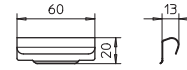


Separating retainer connector

Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
TSGV A2	10	0.923	6067970

V2A Stainless steel, A2

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

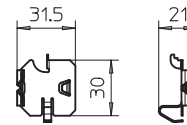


Hold-down clamp for separating retainer fastening in RKSM

Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
KS KR A2	30	0.537	6062280

V2A Stainless steel, A2

Clamping piece for screwless fastening of separating retainer in the cable tray types RKSM, MKS and SKS.



Magic straight connector set

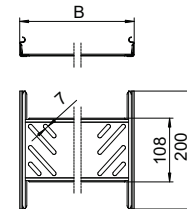
Type	Side height mm	Dimension B mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
KTSMV 310 FS	35	100	1	22.700	6068900
KTSMV 320 FS	35	200	1	29.400	6068902
KTSMV 330 FS	35	300	1	36.100	6068904

St Steel

FS Strip-galvanised

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 35 mm.



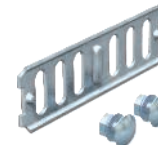
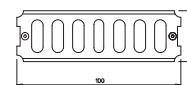
Straight connector

Type	Side height mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
RLVK 35 FS	35	10	5.100	6067085

St Steel
FS Strip-galvanised

Including appropriate fastening material.

Straight connector for connections of cable trays and fittings with a side height of 35 mm.



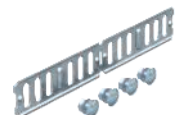
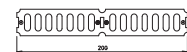
Straight and angle connector

Type	Side height mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
RWVL 35 FS	35	10	10.500	6067107

St Steel
FS Strip-galvanised

Including appropriate fastening material.

Straight and angle connector for cable trays and fittings with a side height of 35 mm.



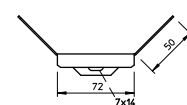
Straight and angle connector

Type	Side height mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
WKV 35 FS	35	5	6.800	6043038

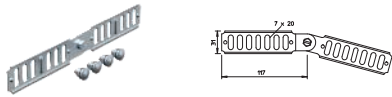
St Steel
FS Strip-galvanised

Including appropriate fastening material.

Angle connector for cable trays with a side height of 35 mm.



Adjustable connector

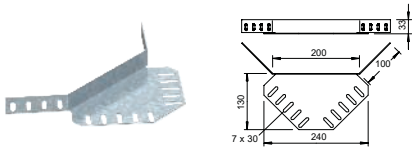


Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
RGV 35 FS	35	10	11.000	7082002

- St** Steel
- FS** Strip-galvanised

Including appropriate fastening material.
Adjustable connector for cable trays with a side height of 35 mm.

Corner connector

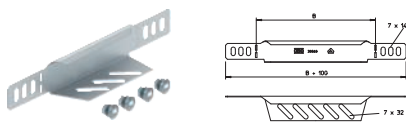


Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
REV 35 FS	35	10	39.000	6067956

- St** Steel
- FS** Strip-galvanised

Fastening materials should be ordered separately.
Corner connector for cable trays with side height 35 mm.

Reducer / stop-end

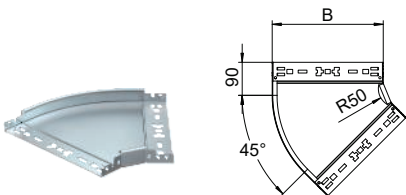


Type	Side height mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs	Item No.
RWEB 310 FS	35	100	1	7.400	7108109
RWEB 320 FS	35	200	1	12.300	7108206
RWEB 330 FS	35	300	1	18.300	7108311

- St** Steel
- FS** Strip-galvanised

From a width of 150 mm, a perforated bottom flange is available.
Including appropriate fastening material.
Reducer/stop-end for cable trays with side height 35 mm.

45° Magic bend

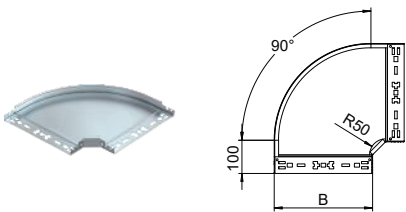


Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs	Item No.
RBM 45 310 FS	100	1	40.800	6041000
RBM 45 320 FS	200	1	74.500	6041002
RBM 45 330 FS	300	1	84.400	6041004

- St** Steel
- FS** Strip-galvanised

45° bend with quick connector system. For all cable tray types of 35 mm side height.

90° Magic bend



Type	Dimension B 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
- FS** Strip-galvanised

90° bend with quick connector system. For all cable tray types of 35 mm side height.

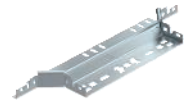
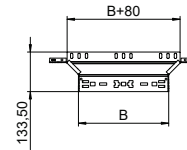
Magic add-on tee

Type	Dimension B 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

FS Strip-galvanised

Add-on tee with quick connector system. For all cable tray types of 35 mm side height.



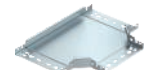
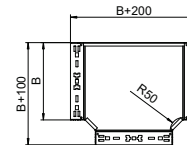
Magic tee

Type	Dimension B 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

FS Strip-galvanised

Tee with quick connector system. For all cable tray types of 35 mm side height.



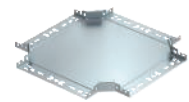
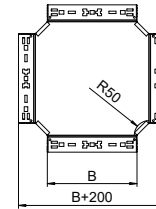
Magic cross-over

Type	Width mm	Pack. pcs	Weight kg/100 pcs	Item No.
RKM 310 FS	100	1	78.500	7027241
RKM 320 FS	200	1	146.300	7027243
RKM 330 FS	300	1	231.200	7027245

St Steel

FS Strip-galvanised

Cross-over with quick connector system. For all cable tray types of 35 mm side height.



90° vertical bend, rising

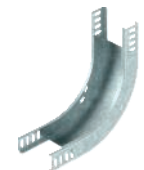
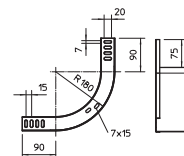
Type	Width mm	Pack. pcs	Weight kg/100 pcs	Item No.
RBV 310 S FS	100	1	56.000	7007174
RBV 320 S FS	200	1	77.900	7007182
RBV 330 S FS	300	1	199.700	7007186

St Steel

FS Strip-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.



90° vertical bend, falling

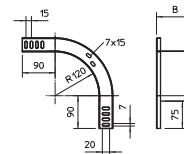
Type	Width mm	Pack. pcs	Weight kg/100 pcs	Item No.
RBV 310 F FS	100	1	51.700	7007204
RBV 320 F FS	200	1	69.300	7007212
RBV 330 F FS	300	1	86.900	7007216

St Steel

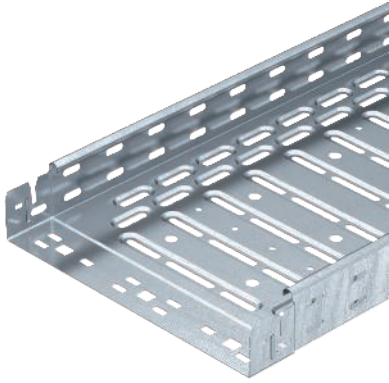
FS Strip-galvanised

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.



Cable tray RKSM 60



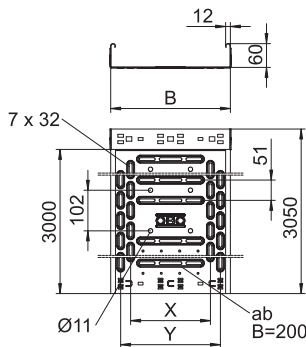
Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
RKSM 610 FS	100	0.75	3	132.131	6047611
RKSM 615 FS	150	0.75	3	155.080	6047630
RKSM 620 FS	200	0.75	3	183.000	6047638
RKSM 630 FS	300	0.75	3	235.080	6047654
RKSM 640 FS	400	0.90	3	331.340	6047689
RKSM 650 FS	500	0.90	3	385.900	6047719
RKSM 660 FS	600	0.90	3	453.340	6047735
RKSM 610 FT	100	1.00	3	172.460	6047612
RKSM 615 FT	150	1.00	3	218.030	6047631
RKSM 620 FT	200	1.00	3	241.640	6047639
RKSM 630 FT	300	1.00	3	311.800	6047655
RKSM 640 FT	400	1.00	3	419.350	6047690

SI Steel

FS Strip-galvanised FT Hot-dip galvanised

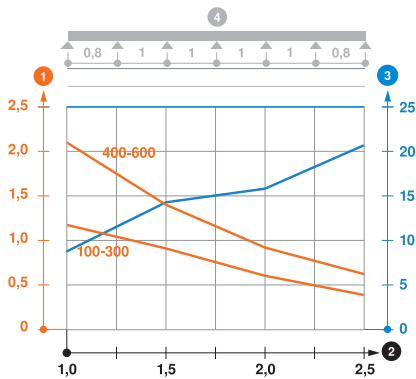
Continuous equipotential bonding is guaranteed without additional components.

Dimensions



Type	Length mm	Dimen- sion B mm	Useful cross- section cm ²	Dimen- sion x mm	Dimen- sion 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	2.0 m kN/m	2.5 m kN/m	NEMA load class
RKSM 610 FS	1.2	0.9	0.6	0.4	8AA
RKSM 615 FS	1.2	1	0.6	0.4	8AA
RKSM 620 FS	1.2	1	0.55	0.4	8AA
RKSM 630 FS	1.2	1	0.55	0.4	8AA
RKSM 640 FS	2.1	1.35	0.8	0.6	8AA
RKSM 650 FS	2.1	1.35	0.8	0.6	8AA
RKSM 660 FS	2.1	1.4	0.8	0.6	8AA

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
- ★

Cable tray RKS-Magic®



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
RKSM 610 A2	100	0.75	3	132.130	6047613
RKSM 615 A2	150	0.75	3	155.080	6047632
RKSM 620 A2	200	0.75	3	180.000	6047640
RKSM 630 A2	300	0.75	3	237.700	6047656
RKSM 640 A2	400	0.90	3	325.900	6047691
RKSM 650 A2	500	0.90	3	385.900	6047721
RKSM 660 A2	600	0.90	3	445.900	6047737
RKSM 610 A4	100	0.75	3	132.130	6047614
RKSM 615 A4	150	0.75	3	155.080	6047633
RKSM 620 A4	200	0.75	3	180.000	6047641
RKSM 630 A4	300	0.75	3	237.700	6047657
RKSM 640 A4	400	0.90	3	325.900	6047692
RKSM 650 A4	500	0.90	3	385.900	6047722
RKSM 660 A4	600	0.90	3	445.900	6047738

V2A Stainless steel, A2 V4A Stainless steel, A4

Continuous equipotential bonding is guaranteed without additional components.

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.

The cable tray possesses continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.

The perforation for direct threaded rod suspension has a diameter of 11 mm.

The cable tray is tested for function maintenance, tested according to DIN 4102 Part 12 (tray widths 100 - 300 mm).

The mounting version and parameters correspond to the valid certificates.

You can find additional information in our fire protection systems catalogue.

Type	Length mm	Dimen- sion B mm	Useful cross- section cm ²	Dimen- sion x mm	Dimen- sion y mm
RKSM 610 A2	3050	100	58	—	50
RKSM 615 A2	3050	150	88	50	100
RKSM 620 A2	3050	200	118	100	150
RKSM 630 A2	3050	300	178	200	250
RKSM 640 A2	3050	400	238	300	350
RKSM 650 A2	3050	500	298	400	450
RKSM 660 A2	3050	600	358	450	550

Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	NEMA load class
RKSM 610 A2	1.2	0.9	0.6	0.4	—
RKSM 615 A2	1.2	0.9	0.6	0.4	—
RKSM 620 A2	1.2	0.9	0.6	0.4	—
RKSM 630 A2	1.2	0.9	0.6	0.4	—
RKSM 640 A2	2.1	1.35	0.9	0.6	—
RKSM 650 A2	2.1	1.35	0.9	0.6	—
RKSM 660 A2	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

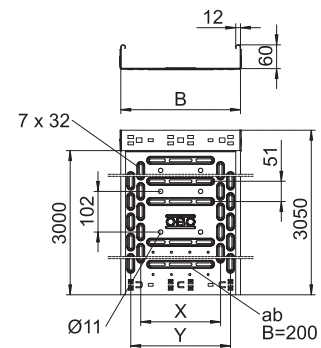
3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

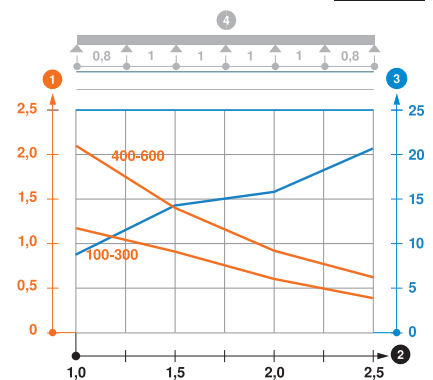
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

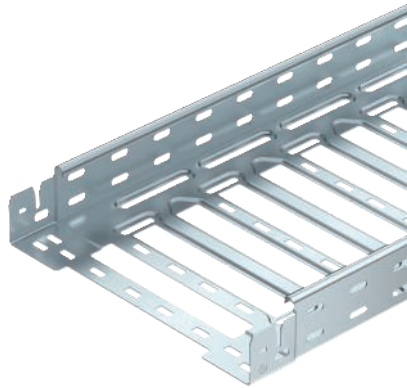
Dimensions



Load



Cable tray MKS-Magic®



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKSM 610 FS	100	1.00	3	165.000	6059000
MKSM 615 FS	150	1.00	3	201.000	6059002
MKSM 620 FS	200	1.00	3	219.340	6059004
MKSM 630 FS	300	1.00	3	256.720	6059006
MKSM 640 FS	400	1.00	3	294.000	6059008
MKSM 650 FS	500	1.00	3	331.500	6059010
MKSM 660 FS	600	1.00	3	368.850	6059012
MKSM 610 FT	100	1.00	3	180.000	6059018
MKSM 615 FT	150	1.00	3	219.000	6059020
MKSM 620 FT	200	1.00	3	239.340	6059022
MKSM 630 FT	300	1.00	3	280.000	6059025
MKSM 640 FT	400	1.00	3	320.650	6059027
MKSM 650 FT	500	1.00	3	361.300	6059029
MKSM 660 FT	600	1.00	3	402.290	6059032

SI Steel

FS Strip-galvanised FT Hot-dip galvanised

Continuous equipotential bonding is guaranteed without additional components.

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.

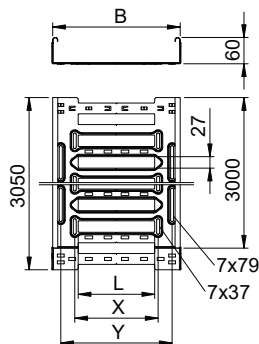
The cable tray possesses continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.

The cable tray is tested for mounting above suspended fire protection ceilings (tray widths 100 - 400 mm).

The mounting version and parameters correspond to the valid certificates.

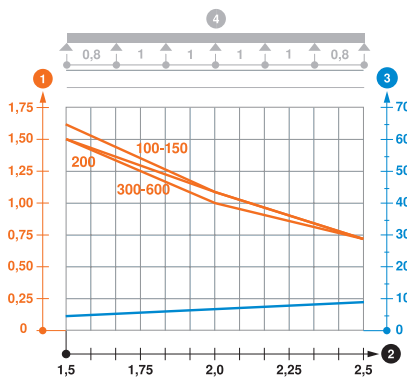
You can find additional information in our fire protection systems catalogue.

Dimensions



Type	Length mm	Dimen- sion B mm	Useful cross- section cm ²	Dimen- sion L mm	Dimen- sion x mm	Dimen- sion y mm
MKSM 610 FS	3050	100	58	30	—	62
MKSM 615 FS	3050	150	88	30	46	112
MKSM 620 FS	3050	200	118	80	96	162
MKSM 630 FS	3050	300	178	180	196	262
MKSM 640 FS	3050	400	238	280	296	362
MKSM 650 FS	3050	500	298	380	396	462
MKSM 660 FS	3050	600	358	480	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

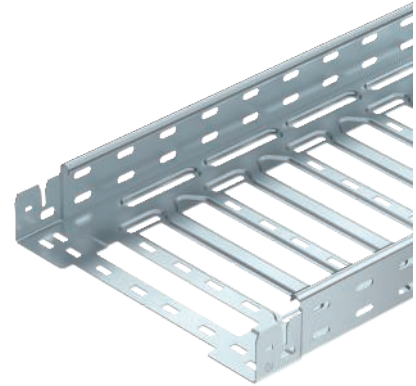
Cable tray SKS-Magic®



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
SKSM 610 FS	100	1.50	6	247.540	6059456
SKSM 615 FS	150	1.50	3	301.640	6059458
SKSM 620 FS	200	1.50	3	329.180	6059460
SKSM 630 FS	300	1.50	3	385.250	6059462
SKSM 640 FS	400	1.50	3	441.320	6059464
SKSM 650 FS	500	1.50	3	497.370	6059466
SKSM 660 FS	600	1.50	3	553.440	6059468
SKSM 610 FT	100	1.50	3	269.830	6059473
SKSM 615 FT	150	1.50	3	328.860	6059475
SKSM 620 FT	200	1.50	3	359.000	6059477
SKSM 630 FT	300	1.50	3	420.000	6059479
SKSM 640 FT	400	1.50	3	481.310	6059481
SKSM 650 FT	500	1.50	3	542.290	6059483
SKSM 660 FT	600	1.50	3	603.600	6059485

Sl Steel

FS Strip-galvanised FT Hot-dip galvanised



Continuous equipotential bonding is guaranteed without additional components.

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.

The cable tray possesses continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.

The cable tray is tested for mounting above suspended fire protection ceilings (tray widths 100 - 600 mm).

The mounting version and parameters correspond to the valid certificates.

You can find additional information in our fire protection systems catalogue.

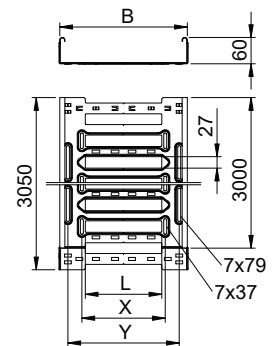
Type	Useful Length mm	Dimen- sion B mm	cross- section cm ²	Dimen- sion L mm	Dimen- sion x mm	Dimen- sion y mm
SKSM 610 FS	3050	100	58	30	—	62
SKSM 615 FS	3050	150	88	30	46	112
SKSM 620 FS	3050	200	118	80	96	162
SKSM 630 FS	3050	300	178	180	196	262
SKSM 640 FS	3050	400	238	280	296	362
SKSM 650 FS	3050	500	298	380	396	462
SKSM 660 FS	3050	600	358	480	496	562

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

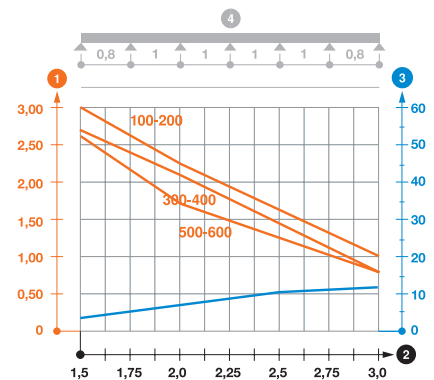
Load diagram, cable tray, type SKSM 60

- 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

Dimensions

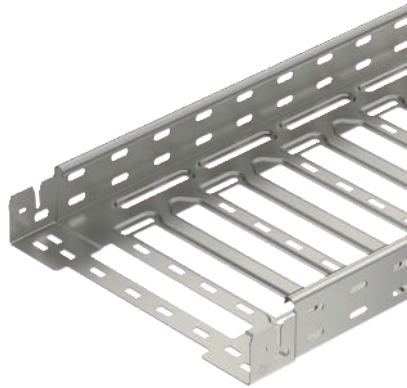


Load



Side height 60

Cable tray SKS-Magic®



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
SKSM 610 A2	100	1.50	3	249.180	6059490
SKSM 620 A2	200	1.50	3	331.480	6059494
SKSM 630 A2	300	1.50	3	387.540	6059496
SKSM 640 A2	400	1.50	3	443.940	6059498
SKSM 650 A2	500	1.50	3	500.660	6059500
SKSM 660 A2	600	1.50	3	556.720	6059502
SKSM 610 A4	100	1.50	3	249.180	6059507
SKSM 620 A4	200	1.50	3	331.470	6059511
SKSM 630 A4	300	1.50	3	387.540	6059513
SKSM 640 A4	400	1.50	3	443.930	6059515
SKSM 650 A4	500	1.50	3	500.660	6059517
SKSM 660 A4	600	1.50	3	556.720	6059519

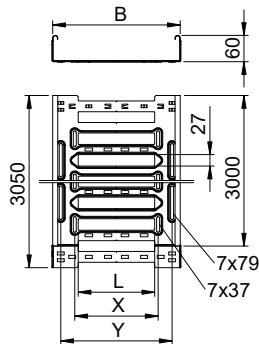
V2A Stainless steel, A2 V4A Stainless steel, A4

Continuous equipotential bonding is guaranteed without additional components.

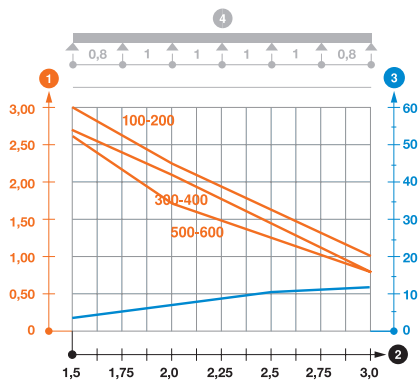
Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.

The cable tray possesses continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.

Dimensions



Load



Type	Length mm	Dimen- sion B mm	Useful cross- section cm ²	Dimen- sion L mm	Dimen- sion x mm	Dimen- sion y mm
SKSM 610 A2	3050	100	58	30	—	62
SKSM 620 A2	3050	200	118	80	96	162
SKSM 630 A2	3050	300	178	180	196	262
SKSM 640 A2	3050	400	238	280	296	362
SKSM 650 A2	3050	500	298	380	396	462
SKSM 660 A2	3050	600	358	480	496	562

Type	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
SKSM 610 A2	3	2.25	1
SKSM 620 A2	3	2.25	1
SKSM 630 A2	2.7	2.1	0.8
SKSM 640 A2	2.7	2.1	0.8
SKSM 650 A2	1.9	1.55	0.8
SKSM 660 A2	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

Cable tray MKS-Magic®, unperforated



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKSMU 610 FS	100	1.00	3	191.150	6059230
MKSMU 615 FS	150	1.00	3	230.500	6059232
MKSMU 620 FS	200	1.00	3	269.840	6059234
MKSMU 630 FS	300	1.00	3	348.200	6059237
MKSMU 640 FS	400	1.00	3	426.580	6059239
MKSMU 650 FS	500	1.00	3	505.250	6059241
MKSMU 660 FS	600	1.00	3	583.600	6059243
MKSMU 610 FT	100	1.00	3	208.500	6059248
MKSMU 615 FT	150	1.00	3	253.280	6059250
MKSMU 620 FT	200	1.00	3	296.721	6059252
MKSMU 630 FT	300	1.00	3	379.672	6059254
MKSMU 640 FT	400	1.00	3	465.246	6059256
MKSMU 650 FT	500	1.00	3	550.820	6059258
MKSMU 660 FT	600	1.00	3	636.390	6059260

St Steel

FS Strip-galvanised FT Hot-dip galvanised

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.

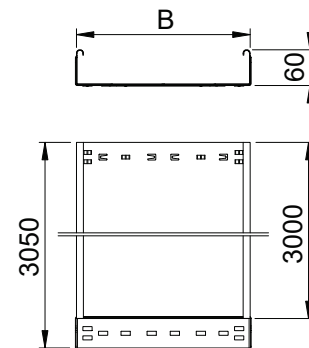
The continuous equipotential bonding is guaranteed without additional components.

VDE-tested cable tray system.

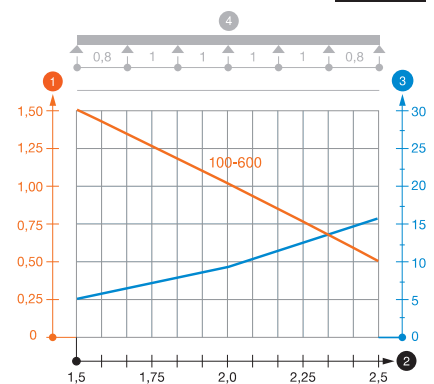


Type	Length mm	Dimen- sion B mm	Useful cross- section cm ²
MKSMU 610 FS	3050	100	58
MKSMU 615 FS	3050	150	88
MKSMU 620 FS	3050	200	118
MKSMU 630 FS	3050	300	178
MKSMU 640 FS	3050	400	238
MKSMU 650 FS	3050	500	298
MKSMU 660 FS	3050	600	358

Dimensions



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

Cable tray MKS-Magic®, unperforated



Type	Plate		Pack.	Weight	
	Width mm	thickness mm		m	kg/100 m
MKSMU 610 A2	100	1.00	3	192.459	6059265
MKSMU 620 A2	200	1.00	3	271.150	6059269
MKSMU 630 A2	300	1.00	3	350.490	6059271
MKSMU 640 A2	400	1.00	3	429.500	6059273
MKSMU 650 A2	500	1.00	3	508.520	6059275
MKSMU 660 A2	600	1.00	3	587.200	6059277

V2A Stainless steel, A2

Unperforated cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation.

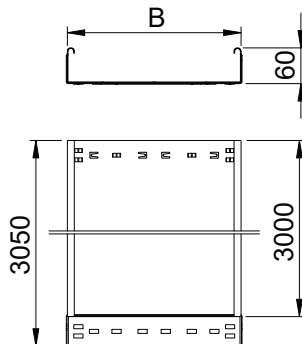
The stock length is 3,050 mm, the usable length when combined is 3,000 mm.

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.

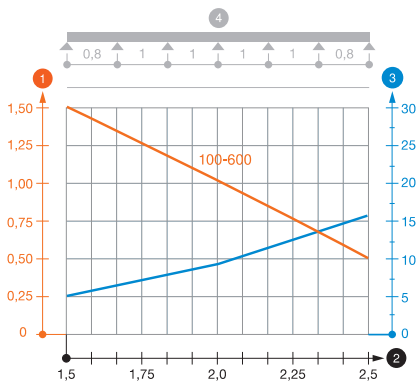
MKSMU 60 = Medium-duty Magic cable tray system, unperforated, with a side height of 60 mm.

Dimensions



Type	Length mm	Dimen- sion B mm	Useful cross- section cm ²
MKSMU 620 A2	3050	200	118
MKSMU 630 A2	3050	300	178
MKSMU 640 A2	3050	400	238
MKSMU 650 A2	3050	500	298
MKSMU 660 A2	3050	600	358

Load



Type	1.5 m	2.0 m	2.5 m
	kN/m	kN/m	kN/m
MKSMU 610 A2	1.5	1	0.5
MKSMU 620 A2	1.5	1	0.5
MKSMU 630 A2	1.5	1	0.5
MKSMU 640 A2	1.5	1	0.5
MKSMU 650 A2	1.5	1	0.5
MKSMU 660 A2	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

Cable tray SKS-Magic®, unperforated



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
SKSMU 610 FS	100	1.50	3	286.890	6059688
SKSMU 615 FS	150	1.50	3	345.900	6059690
SKSMU 620 FS	200	1.50	3	404.590	6059692
SKSMU 630 FS	300	1.50	3	522.290	6059694
SKSMU 640 FS	400	1.50	3	640.000	6059696
SKSMU 650 FS	500	1.50	3	757.710	6059698
SKSMU 660 FS	600	1.50	3	875.410	6059700
SKSMU 610 FT	100	1.50	3	312.780	6059705
SKSMU 615 FT	150	1.50	3	377.050	6059707
SKSMU 620 FT	200	1.50	3	441.300	6059709
SKSMU 630 FT	300	1.50	3	569.500	6059711
SKSMU 640 FT	400	1.50	3	698.000	6059713
SKSMU 650 FT	500	1.50	3	826.220	6059715
SKSMU 660 FT	600	1.50	3	954.750	6059717

Sl Steel

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.

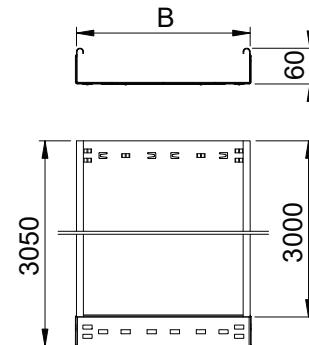
The spring element FED 60 can be ordered separately as an accessory part (spare) for the Magic cable trays with a side height of 60 mm, 85 mm and 110 mm under the article number 6068859.

The continuous equipotential bonding is guaranteed without additional components.

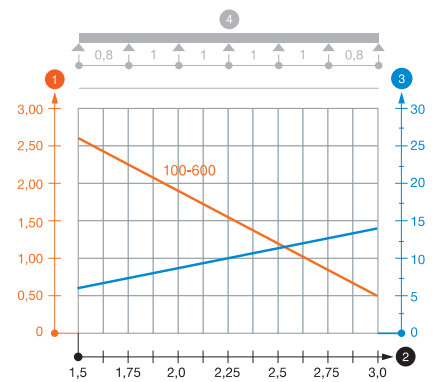
VDE-tested cable tray system.

Type	Length mm	Dimen- sion B mm	Useful cross- section cm ²
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

Dimensions



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

Cable tray SKS-Magic®, unperforated



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
SKSMU 610 A2	100	1.50	3	288.850	6059722
SKSMU 620 A2	200	1.50	3	407.210	6059726
SKSMU 630 A2	300	1.50	3	525.570	6059728
SKSMU 640 A2	400	1.50	3	644.260	6059730
SKSMU 650 A2	500	1.50	3	762.620	6059732
SKSMU 660 A2	600	1.50	3	880.980	6059734

V2A Stainless steel, A2

Unperforated cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation.

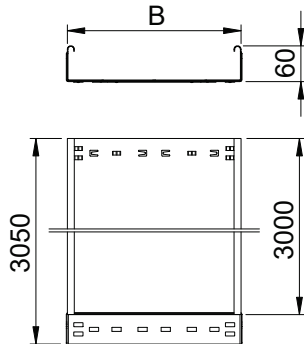
The stock length is 3,050 mm, the usable length when combined is 3,000 mm.

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.

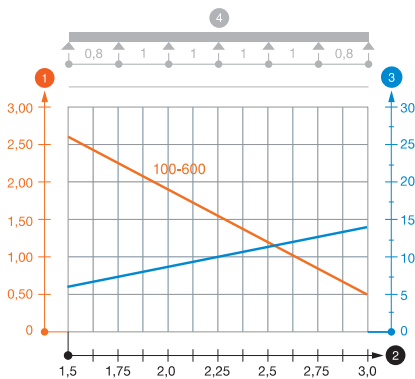
SKSMU 60 = Heavy-duty Magic cable tray system, unperforated, with 60 mm side height.

Dimensions



Type	Length mm	Dimen- sion B mm	Useful cross- section cm ²
SKSMU 610 A2	3050	100	58
SKSMU 620 A2	3050	200	118
SKSMU 630 A2	3050	300	178
SKSMU 640 A2	3050	400	238
SKSMU 650 A2	3050	500	298
SKSMU 660 A2	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 A2	2.6	1.9	1.1	0.55
SKSMU 620 A2	2.6	1.9	1.1	0.55
SKSMU 630 A2	2.6	1.9	1.1	0.55
SKSMU 640 A2	2.6	1.9	1.1	0.55
SKSMU 650 A2	2.6	1.9	1.1	0.55
SKSMU 660 A2	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

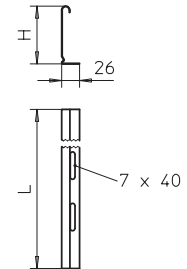
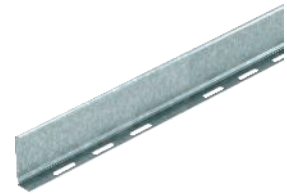
Separating retainer

Type	Dimension H mm	Plate thickness mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 60 FS	60	0.75	3000	3	55.700	6062068
TSG 60 DD	60	0.75	3000	3	55.700	6062327
TSG 60 A2	60	0.75	3000	3	55.000	6062084
TSG 60 A4	60	0.75	3000	3	56.670	6062086

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4

FS Strip-galvanised **DD** Strip galvanised zinc/aluminium, double dip

Separating retainer for separation of cables of different voltages or functions.



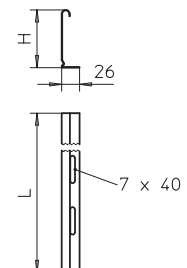
Separating retainer

Type	Dimension H mm	Plate thickness mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 45 FS	45	0.75	3000	3	46.700	6062033
TSG 45 DD	45	0.75	3000	3	46.800	6062321
TSG 45 A2	45	0.75	3000	3	47.000	6062025
TSG 45 A4	45	0.75	3000	3	48.000	6062028

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4

FS Strip-galvanised **DD** Strip galvanised zinc/aluminium, double dip

Separating retainer for separation of cables of different voltages or functions.

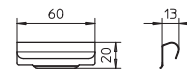


Separating retainer connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV A2	10	0.923	6067970

V2A Stainless steel, A2

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

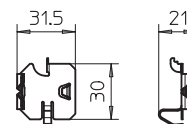


Hold-down clamp for separating retainer fastening in RKSM

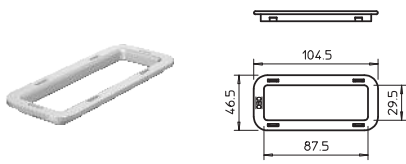
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KR A2	30	0.537	6062280

V2A Stainless steel, A2

Clamping piece for screwless fastening of separating retainer in the cable tray types RKSM, MKS and SKS.



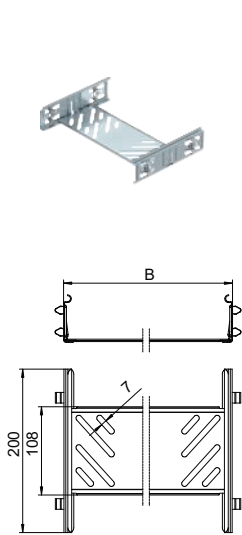
Cable protection ring



Type	Colour	for perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-DR 920 PE	Light grey	32 x 90	25	0.637	6087965
PE Polyethylene					

Cable protection ring for side perforation in the side rails of the IKS cable tray.

Connector



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
KTSMV 610 A2	60	100	1	30.500	6068958
KTSMV 615 A2	60	150	1	34.900	6068960
KTSMV 620 A2	60	200	1	37.200	6068962
KTSMV 630 A2	60	300	1	44.000	6068964
KTSMV 640 A2	60	400	1	50.700	6068966
KTSMV 650 A2	60	500	1	57.400	6068968
KTSMV 660 A2	60	600	1	64.200	6068970
KTSMV 610 A4	60	100	1	30.500	6068980
KTSMV 615 A4	60	150	1	34.900	6068982
KTSMV 620 A4	60	200	1	37.200	6068984
KTSMV 630 A4	60	300	1	44.000	6068986
KTSMV 640 A4	60	400	1	50.700	6068988
KTSMV 650 A4	60	500	1	57.400	6068990
KTSMV 660 A4	60	600	1	64.200	6068992

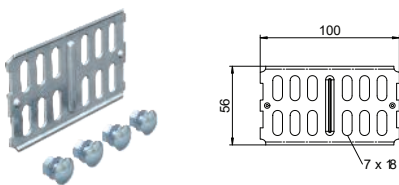
St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FS Strip-galvanised DD Strip galvanised zinc/aluminium, double dip

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 FS	60	10	9.976	6067093
RLVK 60 FT	60	10	10.300	6067603
RLVK 60 A2	60	10	9.780	6067654
RLVK 60 A4	60	10	9.780	6067675

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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.

Angle connector

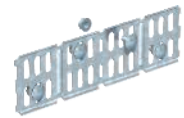
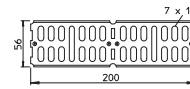
Type	Side height mm	Pack. pcs	Weight		Item No.
			kg/100	pcs.	
RWVL 60 FS	60	10	16.400	6067115	
RWVL 60 FT	60	10	17.400	6067611	
RWVL 60 A2	60	10	16.200	6067662	
RWVL 60 A4	60	10	16.200	6067664	

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4

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.



Straight and angle connector

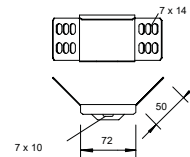
Type	Side height mm	Pack. pcs	Weight		Item No.
			kg/100	pcs.	
WKV 60 FS	60	5	14.700	6043062	
WKV 60 FT	60	5	15.800	6042910	

St Steel

FS Strip-galvanised **FT** Hot-dip galvanised

Including appropriate fastening material.

Angle connector for cable trays with a side height of 60 mm.



Adjustable connector

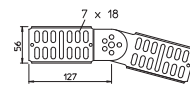
Type	Side height mm	Pack. pcs	Weight		Item No.
			kg/100	pcs.	
RGV 60 FS	60	10	25.100	7082010	
RGV 60 FT	60	10	26.100	7082223	
RGV 60 A2	60	10	25.100	7082258	
RGV 60 A4	60	10	25.100	7082265	

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4

FS Strip-galvanised **FT** Hot-dip galvanised

Including appropriate fastening material.

Adjustable connector for cable trays with a side height of 60 mm.



Corner connector

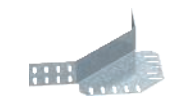
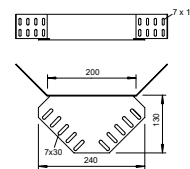
Type	Side height mm	Pack. pcs	Weight		Item No.
			kg/100	pcs.	
REV 60 FS	60	10	32.000	6067972	
REV 60 DD	60	10	32.000	6069410	
REV 60 A2	60	5	32.000	6068022	
REV 60 A4	60	5	32.000	6068054	

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4

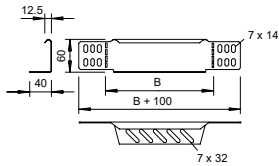
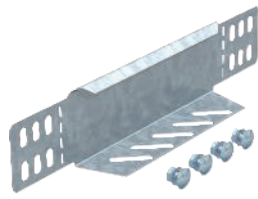
FS Strip-galvanised **DD** Strip galvanised zinc/aluminium, double dip

Fastening materials should be ordered separately.

Corner connector for cable trays with side height 60 mm.



Reducer / stop-end

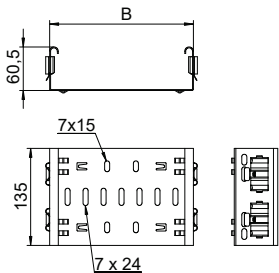
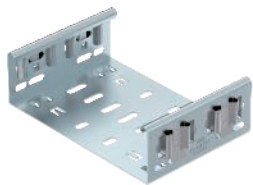


Type	Side height mm	Dimension B mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
RWEB 610 FS	60	100	1	8.800	7109105
RWEB 615 FS	60	150	1	13.600	7109156
RWEB 620 FS	60	200	1	17.600	7109202
RWEB 630 FS	60	300	1	25.600	7109296
RWEB 640 FS	60	400	1	33.500	7109407
RWEB 650 FS	60	500	1	41.500	7109504
RWEB 660 FS	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
RWEB 610 A2	60	100	1	9.000	7109814
RWEB 615 A2	60	150	1	13.400	7109816
RWEB 620 A2	60	200	1	18.000	7109830
RWEB 630 A2	60	300	1	26.000	7109857
RWEB 640 A2	60	400	1	34.000	7109873
RWEB 650 A2	60	500	1	42.000	7109903
RWEB 660 A2	60	600	1	49.000	7109938

St Steel V2A Stainless steel, A2
 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.

Magic straight connector



Type	Side height mm	Dimension B mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
FVM 610 DD	60	100	1	31.900	6065710
FVM 615 DD	60	150	1	37.900	6065712
FVM 620 DD	60	200	1	44.000	6065714
FVM 630 DD	60	300	1	57.000	6065716
FVM 640 DD	60	400	1	69.400	6065718
FVM 650 DD	60	500	1	82.000	6065720
FVM 660 DD	60	600	1	94.600	6065722
FVM 610 A2	60	100	1	31.900	6065730
FVM 615 A2	60	150	1	37.900	6065732
FVM 620 A2	60	200	1	44.000	6065734
FVM 630 A2	60	300	1	57.000	6065736
FVM 640 A2	60	400	1	69.400	6065738
FVM 650 A2	60	500	1	82.000	6065740
FVM 660 A2	60	600	1	94.600	6065742
FVM 610 A4	60	100	1	31.900	6065750
FVM 615 A4	60	150	1	37.900	6065752
FVM 620 A4	60	200	1	44.000	6065754
FVM 630 A4	60	300	1	57.000	6065756
FVM 640 A4	60	400	1	69.400	6065758
FVM 650 A4	60	500	1	82.000	6065760
FVM 660 A4	60	600	1	94.600	6065762

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4
 DD Strip galvanised zinc/aluminium, double dip

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.

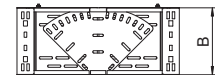
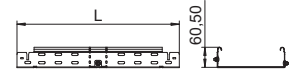
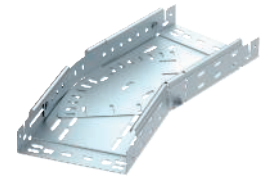
Magic bend, variable

Type	Side height mm	Dimension B mm	Dimension L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBMV 610 FS	60	100	340	1	76.400	6040480
RBMV 615 FS	60	150	420	1	117.100	6040482
RBMV 620 FS	60	200	490	1	163.600	6040484
RBMV 630 FS	60	300	640	1	291.700	6040486
RBMV 640 FS	60	400	820	1	578.000	6040488
RBMV 650 FS	60	500	960	1	986.000	6040490
RBMV 660 FS	60	600	1120	1	1,347.200	6040492
RBMV 610 FT	60	100	340	1	83.700	6040500
RBMV 615 FT	60	150	420	1	128.900	6040502
RBMV 620 FT	60	200	490	1	179.500	6040504
RBMV 630 FT	60	300	640	1	386.300	6040506
RBMV 640 FT	60	400	820	1	635.200	6040508
RBMV 650 FT	60	500	960	1	1,083.700	6040510
RBMV 660 FT	60	600	1120	1	1,480.900	6040512
RBMV 610 A2	60	100	340	1	76.400	6040520
RBMV 620 A2	60	200	490	1	163.600	6040524
RBMV 630 A2	60	300	640	1	386.300	6040526
RBMV 640 A2	60	400	820	1	578.000	6040528
RBMV 650 A2	60	500	960	1	986.000	6040530
RBMV 660 A2	60	600	1120	1	1,347.200	6040532
RBMV 610 A4	60	100	340	1	76.100	6040540
RBMV 615 A4	60	150	420	1	117.100	6040542
RBMV 620 A4	60	200	490	1	163.200	6040544
RBMV 630 A4	60	300	640	1	360.200	6040546
RBMV 640 A4	60	400	820	1	577.600	6040548
RBMV 650 A4	60	500	960	1	986.500	6040550
RBMV 660 A4	60	600	1120	1	1,346.800	6040552

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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.



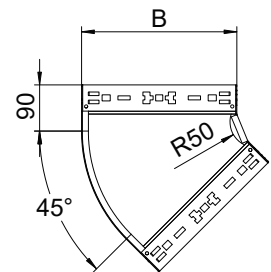
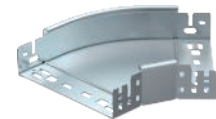
45° Magic bend

Type	Dimension B 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
RBM 45 610 A2	100	1	50.400	6041080
RBM 45 620 A2	200	1	86.000	6041084
RBM 45 630 A2	300	1	128.300	6041086
RBM 45 640 A2	400	1	174.800	6041088

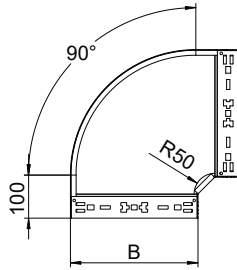
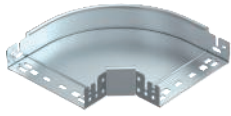
St Steel V2A Stainless steel, A2

FS Strip-galvanised FT Hot-dip galvanised

45° bend with quick connector system. For all cable tray types of 60 mm side height.



90° Magic bend



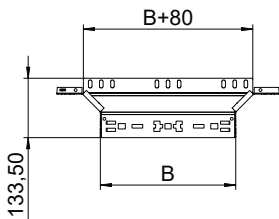
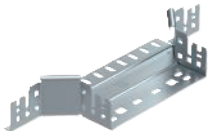
Type	Dimension B mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
RBM 90 610 FS	100	1	65.700	6041130
RBM 90 615 FS	150	1	92.000	6041132
RBM 90 620 FS	200	1	122.100	6041134
RBM 90 630 FS	300	1	192.800	6041136
RBM 90 640 FS	400	1	275.400	6041138
RBM 90 650 FS	500	1	376.300	6041140
RBM 90 660 FS	600	1	494.300	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	406.300	6041160
RBM 90 660 FT	600	1	530.100	6041162
RBM 90 610 A2	100	1	65.700	6041180
RBM 90 615 A2	150	1	92.000	6041182
RBM 90 620 A2	200	1	122.100	6041184
RBM 90 630 A2	300	1	192.800	6041186
RBM 90 640 A2	400	1	275.400	6041188
RBM 90 650 A2	500	1	376.300	6041190
RBM 90 660 A2	600	1	494.300	6041192
RBM 90 610 A4	100	1	65.700	6041200
RBM 90 615 A4	150	1	92.000	6041202
RBM 90 620 A4	200	1	122.100	6041204
RBM 90 630 A4	300	1	192.800	6041206
RBM 90 640 A4	400	1	275.400	6041208
RBM 90 650 A4	500	1	376.300	6041210
RBM 90 660 A4	600	1	494.300	6041212

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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	Dimension B mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
RAAM 610 FS	100	1	37.700	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	75.700	6041238
RAAM 650 FS	500	1	89.300	6041240
RAAM 660 FS	600	1	102.700	6041242
RAAM 610 FT	100	1	40.800	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	81.800	6041259
RAAM 650 FT	500	1	105.400	6041261
RAAM 660 FT	600	1	110.100	6041263
RAAM 610 A2	100	1	37.700	6041270
RAAM 615 A2	150	1	44.300	6041271
RAAM 620 A2	200	1	50.600	6041275
RAAM 630 A2	300	1	63.500	6041277
RAAM 640 A2	400	1	75.700	6041279
RAAM 650 A2	500	1	89.300	6041282
RAAM 660 A2	600	1	102.700	6041284
RAAM 610 A4	100	1	37.700	6041290
RAAM 620 A4	200	1	50.600	6041294
RAAM 630 A4	300	1	63.500	6041296
RAAM 640 A4	400	1	75.700	6041298
RAAM 650 A4	500	1	89.300	6041300
RAAM 660 A4	600	1	102.700	6041303

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FS Strip-galvanised FT Hot-dip galvanised

Magic add-on tee with quick connector system. For all cable tray types of 60 mm side height.

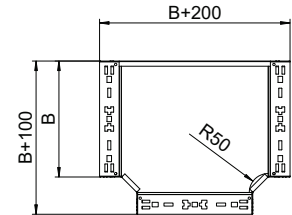
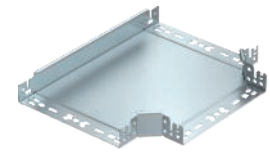
Magic tee

Type	Dimension B 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	234.500	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	253.300	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
RTM 610 A2	100	1	83.600	6041360
RTM 620 A2	200	1	150.600	6041365
RTM 630 A2	300	1	234.500	6041367
RTM 640 A2	400	1	335.600	6041369
RTM 650 A2	500	1	460.500	6041371
RTM 660 A2	600	1	605.000	6041373
RTM 610 A4	100	1	83.600	6041380
RTM 620 A4	200	1	150.600	6041384
RTM 630 A4	300	1	234.500	6041386
RTM 640 A4	400	1	335.600	6041388
RTM 650 A4	500	1	460.500	6041390
RTM 660 A4	600	1	605.000	6041392

SI Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FS Strip-galvanised FT Hot-dip galvanised

Tee branch piece with quick connector system. For all cable tray types of 60 mm side height.



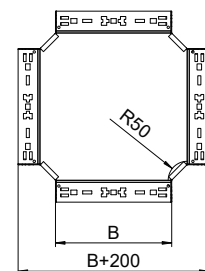
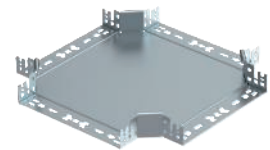
Magic cross-over

Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RKM 610 FS	100	1	92.500	7027001
RKM 615 FS	150	1	123.800	7027003
RKM 620 FS	200	1	159.800	7027005
RKM 630 FS	300	1	244.600	7027007
RKM 640 FS	400	1	343.400	7027009
RKM 650 FS	500	1	468.300	7027011
RKM 660 FS	600	1	610.100	7027013
RKM 610 FT	100	1	100.000	7027021
RKM 620 FT	200	1	172.700	7027025
RKM 630 FT	300	1	264.300	7027027
RKM 640 FT	400	1	368.200	7027029
RKM 650 FT	500	1	502.200	7027031
RKM 660 FT	600	1	658.800	7027033
RKM 610 A2	100	1	92.500	7027041
RKM 620 A2	200	1	159.800	7027045
RKM 630 A2	300	1	244.600	7027047
RKM 640 A2	400	1	343.400	7027049
RKM 650 A2	500	1	468.300	7027051
RKM 660 A2	600	1	610.100	7027053
RKM 610 A4	100	1	92.500	7027061
RKM 620 A4	200	1	159.800	7027065
RKM 630 A4	300	1	244.600	7027067
RKM 640 A4	400	1	343.400	7027069
RKM 650 A4	500	1	468.300	7027071
RKM 660 A4	600	1	610.100	7027073

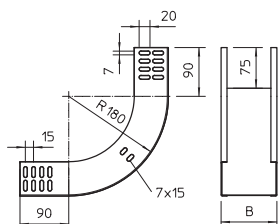
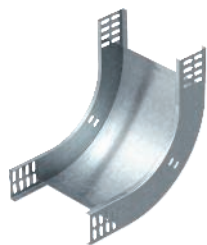
SI Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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	Side height mm	Dimension B mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
RBV 610 S FS	60	100	1	66.000	7007005
RBV 615 S FS	60	150	1	78.000	7007009
RBV 620 S FS	60	200	1	95.000	7007013
RBV 630 S FS	60	300	1	124.000	7007017
RBV 640 S FS	60	400	1	153.000	7007021
RBV 650 S FS	60	500	1	181.000	7007025
RBV 660 S FS	60	600	1	210.000	7007029
RBV 610 S FT	60	100	1	71.000	7007006
RBV 615 S FT	60	150	1	84.000	7007010
RBV 620 S FT	60	200	1	103.000	7007014
RBV 630 S FT	60	300	1	134.000	7007018
RBV 640 S FT	60	400	1	163.000	7007022
RBV 650 S FT	60	500	1	190.000	7007026
RBV 660 S FT	60	600	1	221.000	7007030
RBV 610 S A2	60	100	1	66.000	7007105
RBV 615 S A2	60	150	1	84.000	7007107
RBV 620 S A2	60	200	1	109.000	7007109
RBV 630 S A2	60	300	1	145.000	7007113
RBV 640 S A2	60	400	1	181.000	7007117
RBV 650 S A2	60	500	1	216.000	7007119
RBV 660 S A2	60	600	1	252.000	7007121
RBV 610 S A4	60	100	1	73.000	7006720
RBV 620 S A4	60	200	1	105.000	7006724
RBV 630 S A4	60	300	1	145.000	7006728
RBV 640 S A4	60	400	1	181.000	7006732
RBV 650 S A4	60	500	1	216.000	7006736
RBV 660 S A4	60	600	1	252.000	7006740

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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

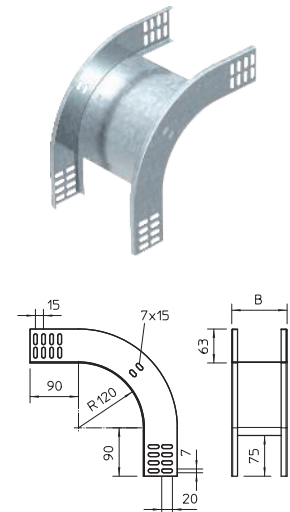
Type	Side height mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 610 F FS	60	100	1	61.000	7007055
RBV 615 F FS	60	150	1	73.000	7007059
RBV 620 F FS	60	200	1	84.000	7007063
RBV 630 F FS	60	300	1	107.000	7007067
RBV 640 F FS	60	400	1	130.000	7007071
RBV 650 F FS	60	500	1	153.000	7007075
RBV 660 F FS	60	600	1	176.000	7007079
RBV 610 F FT	60	100	1	66.000	7007056
RBV 615 F FT	60	150	1	80.000	7007060
RBV 620 F FT	60	200	1	92.000	7007064
RBV 630 F FT	60	300	1	116.000	7007068
RBV 640 F FT	60	400	1	142.000	7007072
RBV 650 F FT	60	500	1	167.000	7007076
RBV 660 F FT	60	600	1	192.000	7007080
RBV 610 F A2	60	100	1	61.000	7007155
RBV 615 F A2	60	150	1	73.000	7007156
RBV 620 F A2	60	200	1	84.000	7007157
RBV 630 F A2	60	300	1	107.000	7007159
RBV 640 F A2	60	400	1	130.000	7007161
RBV 650 F A2	60	500	1	153.000	7007163
RBV 660 F A2	60	600	1	176.000	7007165
RBV 610 F A4	60	100	1	61.000	7006750
RBV 620 F A4	60	200	1	84.000	7006754
RBV 630 F A4	60	300	1	107.000	7006758
RBV 640 F A4	60	400	1	130.000	7006762
RBV 650 F A4	60	500	1	153.000	7006766
RBV 660 F A4	60	600	1	176.000	7006770

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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.



90° articulated bend, vertical

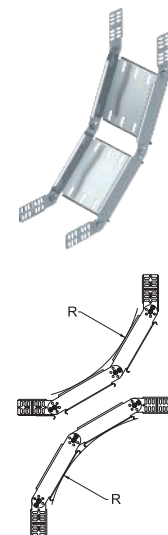
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGBV 610 FS	100	1	173.700	7006322
RGBV 615 FS	150	1	194.000	7006330
RGBV 620 FS	200	1	219.000	7006349
RGBV 630 FS	300	1	264.000	7006365
RGBV 640 FS	400	1	311.000	7006381
RGBV 650 FS	500	1	394.000	7006411
RGBV 660 FS	600	1	430.000	7006446
RGBV 610 FT	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
RGBV 610 A2	100	1	172.000	7138113
RGBV 620 A2	200	1	218.000	7138121
RGBV 630 A2	300	1	265.000	7138148
RGBV 640 A2	400	1	311.000	7138156
RGBV 650 A2	500	1	394.500	7138164
RGBV 660 A2	600	1	430.000	7138172

St Steel V2A Stainless steel, A2

FS Strip-galvanised FT Hot-dip galvanised

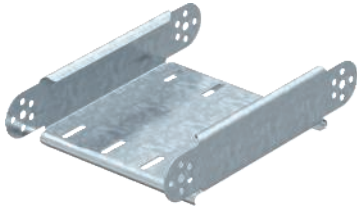
The bend is shipped in an unmounted state. No additional fastening materials are required.

90° adjustable vertical bend, for all cable tray types with a side height of 60 mm.



Side height 60

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	63.700	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	155.900	7005423
RGBEV 610 FT	100	1	52.400	7075103
RGBEV 615 FT	150	1	60.300	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	167.200	7075596

SI Steel

FS Strip-galvanised FT Hot-dip galvanised

Adjustable vertical bend element, for all cable tray types with a side height of 60 mm.

Dimensions

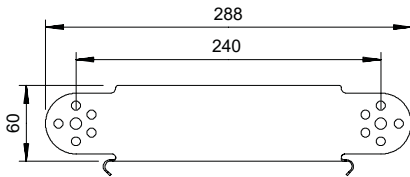
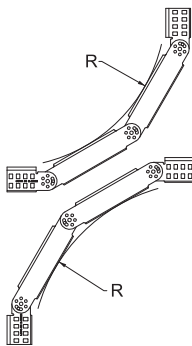


	Plate	
	Width mm	thickness mm
RGBEV 610 FS	100	1.00
RGBEV 615 FS	150	1.00
RGBEV 620 FS	200	1.00
RGBEV 630 FS	300	1.00
RGBEV 640 FS	400	1.00
RGBEV 650 FS	500	1.00
RGBEV 660 FS	600	1.00

Installation



Radius table

Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	approx. 600 mm
4	approx. 750 mm
5	approx. 900 mm

Please order two RGV 60 articulated connectors separately.

Cable tray MKS-Magic®

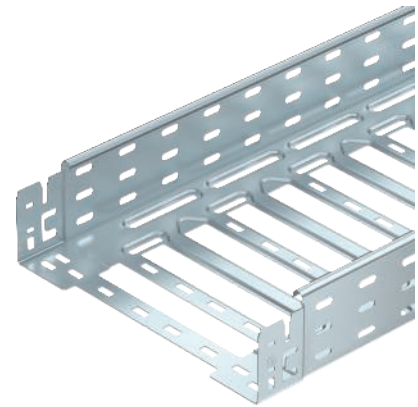


Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKSM 810 FS	100	1.00	3	200.000	6059080
MKSM 820 FS	200	1.00	3	254.750	6059084
MKSM 830 FS	300	1.00	3	292.130	6059086
MKSM 840 FS	400	1.00	3	329.500	6059088
MKSM 850 FS	500	1.00	3	366.900	6059090
MKSM 860 FS	600	1.00	3	403.930	6059092
MKSM 810 FT	100	1.00	3	218.000	6059097
MKSM 820 FT	200	1.00	3	277.700	6059101
MKSM 830 FT	300	1.00	3	318.700	6059103
MKSM 840 FT	400	1.00	3	359.340	6059105
MKSM 850 FT	500	1.00	3	400.000	6059107
MKSM 860 FT	600	1.00	3	440.300	6059109

Sl Steel

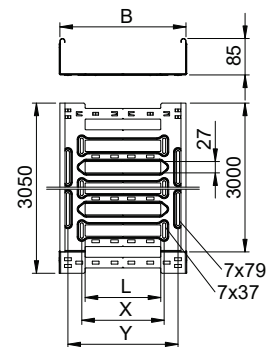
FS Strip-galvanised FT Hot-dip galvanised

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.

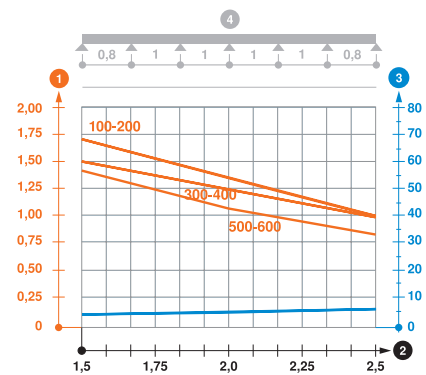


Type	Length mm	Dimen- sion B mm	Dimen- sion L mm	Dimen- sion x mm	Dimen- sion y mm
MKSM 810 FS	3050	100	30	—	62
MKSM 820 FS	3050	200	80	96	162
MKSM 830 FS	3050	300	180	196	262
MKSM 840 FS	3050	400	280	296	362
MKSM 850 FS	3050	500	380	396	462
MKSM 860 FS	3050	600	480	496	562

Dimensions



Load

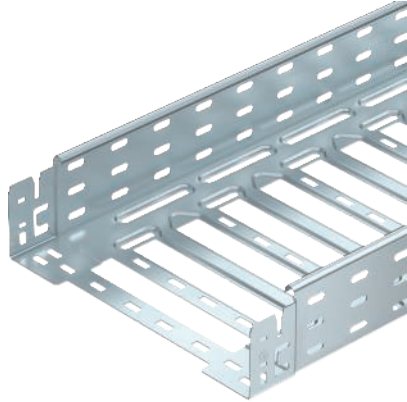


Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSM 810 FS	1.7	1.35	1
MKSM 820 FS	1.7	1.35	1
MKSM 830 FS	1.5	1.25	1
MKSM 840 FS	1.5	1.25	1
MKSM 850 FS	1.4	1.1	0.85
MKSM 860 FS	1.4	1.1	0.85

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

Cable tray SKS-Magic®



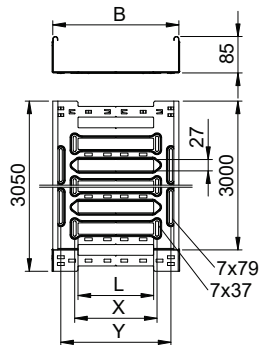
Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
SKSM 810 FS	100	1.50	3	301.840	6059530
SKSM 820 FS	200	1.50	3	381.970	6059534
SKSM 830 FS	300	1.50	3	438.040	6059536
SKSM 840 FS	400	1.50	3	494.010	6059538
SKSM 850 FS	500	1.50	3	550.170	6059540
SKSM 860 FS	600	1.50	3	605.900	6059542
SKSM 810 FT	100	1.50	3	321.870	6059549
SKSM 820 FT	200	1.50	3	404.920	6059553
SKSM 830 FT	300	1.50	3	481.970	6059555
SKSM 840 FT	400	1.50	3	523.940	6059557
SKSM 850 FT	500	1.50	3	583.280	6059559
SKSM 860 FT	600	1.50	3	642.960	6059561

SI Steel

FS Strip-galvanised FT Hot-dip galvanised

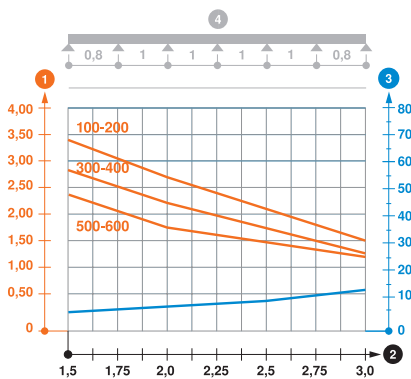
Cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation, with beaded straight base perforation, 7 x 79 mm, for bracket mounting. All widths with cross beading for stabilisation and duct ventilation. Continuous side perforation, 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.

Dimensions



Type	Length mm	Dimen- sion B mm	Dimen- sion L mm	Dimen- sion x mm	Dimen- sion y mm
SKSM 810 FS	3050	100	30	—	62
SKSM 820 FS	3050	200	80	96	162
SKSM 830 FS	3050	300	180	196	262
SKSM 840 FS	3050	400	280	296	362
SKSM 850 FS	3050	500	380	396	462
SKSM 860 FS	3050	600	480	496	562

Load



Type	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
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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

Cable tray MKS-Magic®, unperforated



Type	Dimension B mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKSMU 810 FS	100	1.00	3	230.170	6059308
MKSMU 820 FS	200	1.00	3	308.850	6059312
MKSMU 830 FS	300	1.00	3	387.213	6059314
MKSMU 840 FS	400	1.00	3	465.570	6059316
MKSMU 850 FS	500	1.00	3	544.260	6059318
MKSMU 860 FS	600	1.00	3	622.950	6059320
MKSMU 810 FT	100	1.00	3	251.150	6059325
MKSMU 820 FT	200	1.00	3	336.720	6059329
MKSMU 830 FT	300	1.00	3	422.290	6059331
MKSMU 840 FT	400	1.00	3	507.500	6059333
MKSMU 850 FT	500	1.00	3	593.440	6059335
MKSMU 860 FT	600	1.00	3	679.340	6059337

Sl Steel

FS Strip-galvanised FT Hot-dip galvanised

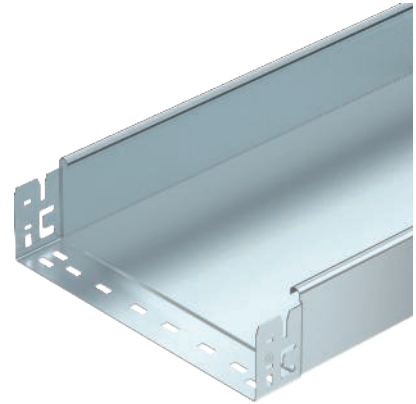
Unperforated cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation.

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.

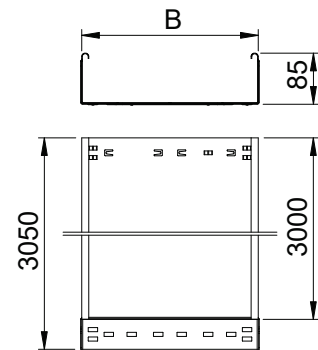
The continuous equipotential bonding is guaranteed without additional components.

VDE-tested cable tray system.

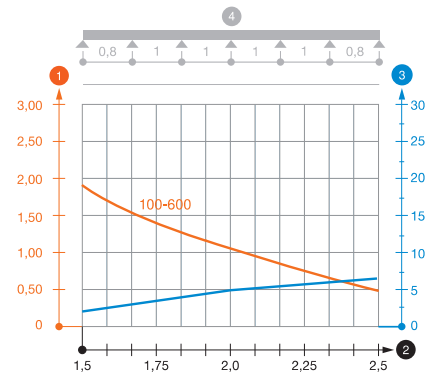


Type	Length mm	Dimension B mm	Useful cross-section cm ²
MKSMU 810 FS	3050	100	83
MKSMU 820 FS	3050	200	186
MKSMU 830 FS	3050	300	253
MKSMU 840 FS	3050	400	338
MKSMU 850 FS	3050	500	423
MKSMU 860 FS	3050	600	508

Dimensions



Load

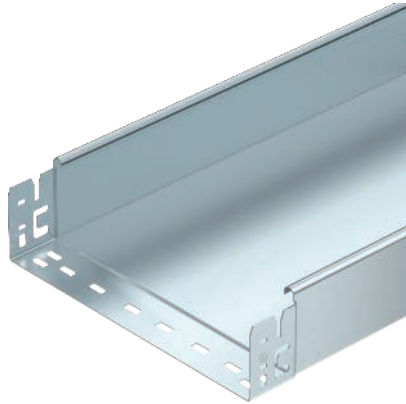


Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSMU 810 FS	1.75	1.1	0.5
MKSMU 820 FS	1.75	1.1	0.5
MKSMU 830 FS	1.75	1.1	0.5
MKSMU 840 FS	1.75	1.1	0.5
MKSMU 850 FS	1.75	1.1	0.5
MKSMU 860 FS	1.75	1.1	0.5

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

Cable tray SKS-Magic®, unperforated



Type	Plate thickness		Pack. m	Weight kg/100 m	Item No.
	Width mm	mm			
SKSMU 810 FS	100	1.50	3	345.580	6059762
SKSMU 820 FS	200	1.50	3	463.280	6059766
SKSMU 830 FS	300	1.50	3	580.990	6059768
SKSMU 840 FS	400	1.50	3	698.690	6059770
SKSMU 850 FS	500	1.50	3	816.400	6059772
SKSMU 860 FS	600	1.50	3	934.000	6059774
SKSMU 810 FT	100	1.50	3	366.560	6059779
SKSMU 820 FT	200	1.50	3	474.760	6059783
SKSMU 830 FT	300	1.50	3	616.070	6059785
SKSMU 840 FT	400	1.50	3	740.990	6059787
SKSMU 850 FT	500	1.50	3	865.580	6059789
SKSMU 860 FT	600	1.50	3	990.490	6059791

SI Steel

FS Strip-galvanised FT Hot-dip galvanised

Unperforated cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation.

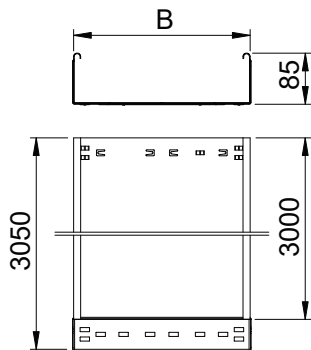
The stock length is 3,050 mm, the usable length when combined is 3,000 mm.

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.

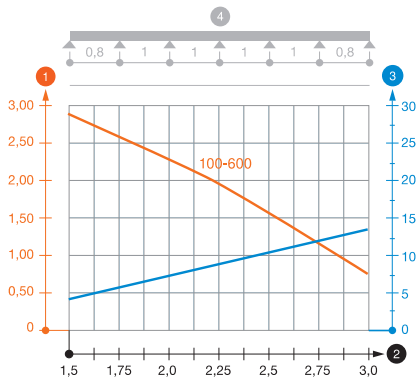
Dimensions



Type	Length mm	Dimen- sion B mm	Useful cross- section cm²
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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	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/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

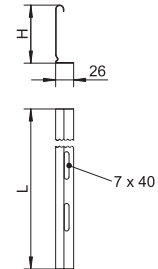
- 1 Permitted cable tray/ladder load in kN/m without man load
- 2 Support width in m
- 3 Rail bend in mm at permitted kN/m
- 4 Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width

Separating retainer

Type	Dimen- sion H mm	Plate thickness mm	Dimen- sion 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
TSG 85 A2	85	0.75	3000	3	69.670	6062173

St Steel V2A Stainless steel, A2
 FS Strip-galvanised DD Strip galvanised zinc/aluminium,double dip

Separating retainer for separation of cables of different voltages or functions.

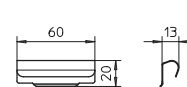


Separating retainer connector

Type	Pack. pcs	Weight kg/100 pcs	Item No.
TSGV A2	10	0.923	6067970

V2A Stainless steel, A2

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.



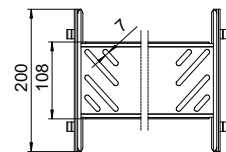
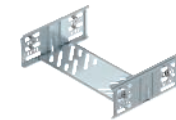
Magic straight connector set

Type	Side height mm	Dimen- sion B mm	Pack. pcs	Weight kg/100 pcs	Item No.
KTSMV 810 FS	85	100	1	37.100	6069002
KTSMV 820 FS	85	200	1	43.800	6069006
KTSMV 830 FS	85	300	1	50.600	6069008
KTSMV 840 FS	85	400	1	57.300	6069010
KTSMV 850 FS	85	500	1	64.000	6069012
KTSMV 860 FS	85	600	1	70.800	6069014
KTSMV 810 DD	85	100	1	37.100	6069024
KTSMV 820 DD	85	200	1	43.800	6069028
KTSMV 830 DD	85	300	1	50.600	6069030
KTSMV 840 DD	85	400	1	57.300	6069032
KTSMV 850 DD	85	500	1	64.000	6069034
KTSMV 860 DD	85	600	1	70.800	6069036

St Steel
 FS Strip-galvanised DD Strip galvanised zinc/aluminium,double dip

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 85 mm.



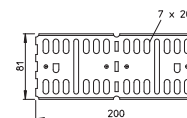
Straight and angle connector

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

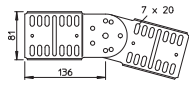
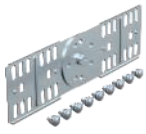
St Steel
 FS Strip-galvanised FT Hot-dip galvanised

Including appropriate fastening material.

Straight and angle connector for cable trays and fittings with a side height of 85 mm.



Adjustable connector

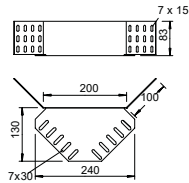


Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
RGV 85 FS	85	10	44.100	7082029
RGV 85 FT	85	10	45.900	7082320

St Steel
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

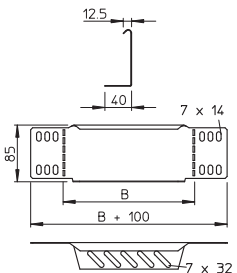
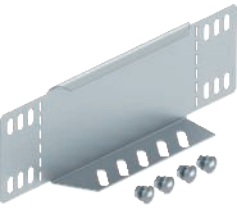


Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
REV 85 FS	85	10	61.000	6067980
REV 85 DD	85	10	61.000	6069320

St Steel
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.

Reducer / stop-end

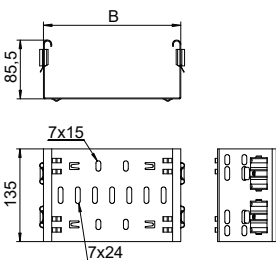
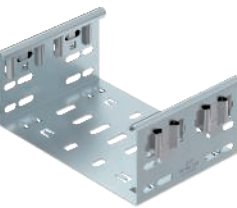


Type	Side height mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs	Item No.
RWEB 810 FS	85	100	1	12.500	7110103
RWEB 820 FS	85	200	1	23.400	7110200
RWEB 830 FS	85	300	1	33.300	7110308
RWEB 840 FS	85	400	1	43.200	7110405
RWEB 850 FS	85	500	1	53.200	7110502
RWEB 860 FS	85	600	1	63.000	7110618
RWEB 810 DD	85	100	1	12.600	7107315
RWEB 820 DD	85	200	1	23.300	7107331
RWEB 830 DD	85	300	1	33.300	7107366
RWEB 840 DD	85	400	1	43.200	7107382
RWEB 850 DD	85	500	1	53.100	7107404
RWEB 860 DD	85	600	1	63.100	7107420

St Steel
FS Strip-galvanised **DD** Strip galvanised zinc/aluminium,double dip

From a width of 150 mm, a perforated bottom flange is available.
 Including appropriate fastening material.
 Reducer/stop-end for cable trays with side height 85 mm.

Magic straight connector



Type	Side height mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs	Item No.
FVM 810 DD	85	100	1	37.700	6065810
FVM 820 DD	85	200	1	49.800	6065814
FVM 830 DD	85	300	1	62.500	6065816
FVM 840 DD	85	400	1	75.200	6065818
FVM 850 DD	85	500	1	87.400	6065820
FVM 860 DD	85	600	1	100.200	6065822

St Steel
DD Strip galvanised zinc/aluminium,double dip

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 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.

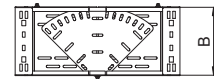
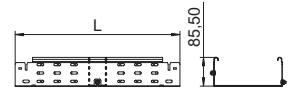
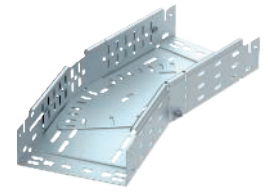
Magic bend, variable

Type	Side height mm	Dimension L mm	Plate thickness mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBMV 810 FS	85	340	1.00	100	1	88.500	6040580
RBMV 820 FS	85	490	1.00	200	1	185.400	6040584
RBMV 830 FS	85	640	1.25	300	1	324.700	6040586
RBMV 840 FS	85	820	1.25	400	1	505.500	6040588
RBMV 850 FS	85	960	1.50	500	1	1,059.200	6040590
RBMV 860 FS	85	1120	1.50	600	1	1,433.700	6040592
RBMV 810 FT	85	340	1.00	100	1	100.000	6040600
RBMV 820 FT	85	490	1.00	200	1	202.200	6040604
RBMV 830 FT	85	640	1.25	300	1	430.300	6040606
RBMV 840 FT	85	820	1.25	400	1	676.200	6040608
RBMV 850 FT	85	960	1.50	500	1	1,167.800	6040610
RBMV 860 FT	85	1120	1.50	600	1	1,520.100	6040612

St Steel

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.



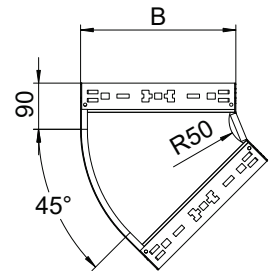
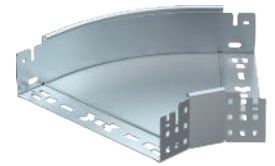
45° Magic bend

Type	Side height mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBM 45 810 FS	85	100	1	60.600	6041410
RBM 45 820 FS	85	200	1	98.100	6041412
RBM 45 830 FS	85	300	1	142.300	6041414
RBM 45 840 FS	85	400	1	190.900	6041416
RBM 45 850 FS	85	500	1	250.700	6041418
RBM 45 860 FS	85	600	1	318.200	6041420
RBM 45 810 FT	85	100	1	65.000	6041430
RBM 45 820 FT	85	200	1	105.200	6041432
RBM 45 830 FT	85	300	1	152.600	6041434
RBM 45 840 FT	85	400	1	204.700	6041436
RBM 45 850 FT	85	500	1	268.800	6041438
RBM 45 860 FT	85	600	1	341.200	6041440

St Steel

FS Strip-galvanised FT Hot-dip galvanised

45° bend with quick connector system. For all cable tray types of 85 mm side height.



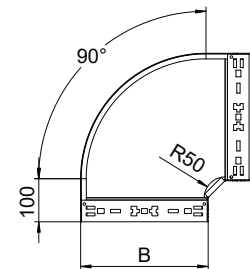
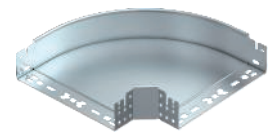
90° Magic bend

Type	Side height mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBM 90 810 FS	85	100	1	78.500	6041490
RBM 90 820 FS	85	200	1	138.200	6041492
RBM 90 830 FS	85	300	1	213.300	6041494
RBM 90 840 FS	85	400	1	299.700	6041496
RBM 90 850 FS	85	500	1	405.300	6041498
RBM 90 860 FS	85	600	1	526.400	6041500
RBM 90 810 FT	85	100	1	84.200	6041510
RBM 90 820 FT	85	200	1	148.700	6041512
RBM 90 830 FT	85	300	1	228.700	6041514
RBM 90 840 FT	85	400	1	321.400	6041516
RBM 90 850 FT	85	500	1	434.600	6041518
RBM 90 860 FT	85	600	1	564.500	6041520

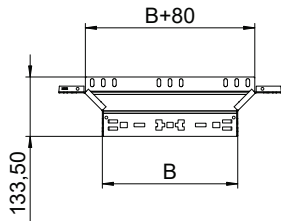
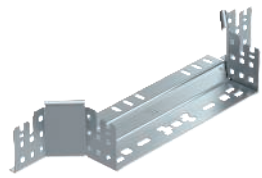
St Steel

FS Strip-galvanised FT Hot-dip galvanised

90° bend with quick connector system. For all cable tray types of 85 mm side height.



Magic add-on tee

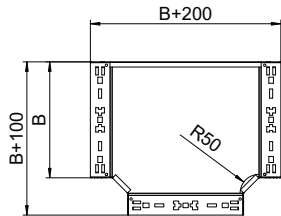
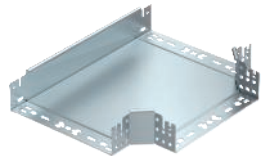


Type	Side height mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RAAM 810 FS	85	100	1	45.700	6041570
RAAM 820 FS	85	200	1	58.400	6041572
RAAM 830 FS	85	300	1	71.300	6041574
RAAM 840 FS	85	400	1	84.300	6041576
RAAM 850 FS	85	500	1	97.100	6041578
RAAM 860 FS	85	600	1	110.500	6041580
RAAM 810 FT	85	100	1	49.000	6041590
RAAM 820 FT	85	200	1	62.600	6041592
RAAM 830 FT	85	300	1	76.500	6041594
RAAM 840 FT	85	400	1	90.400	6041596
RAAM 850 FT	85	500	1	104.100	6041598
RAAM 860 FT	85	600	1	118.500	6041600

St Steel
 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

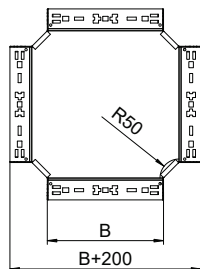
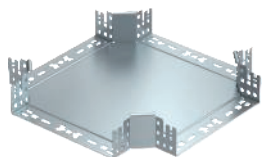


Type	Side height mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RTM 810 FS	85	100	1	98.700	6041660
RTM 820 FS	85	200	1	168.200	6041662
RTM 830 FS	85	300	1	255.800	6041664
RTM 840 FS	85	400	1	358.100	6041666
RTM 850 FS	85	500	1	485.400	6041668
RTM 860 FS	85	600	1	632.400	6041670
RTM 810 FT	85	100	1	105.800	6041680
RTM 820 FT	85	200	1	180.400	6041682
RTM 830 FT	85	300	1	274.300	6041684
RTM 840 FT	85	400	1	384.000	6041686
RTM 850 FT	85	500	1	520.500	6041688
RTM 860 FT	85	600	1	678.200	6041690

St Steel
 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	Side height mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RKM 810 FS	85	100	1	108.700	7027081
RKM 820 FS	85	200	1	176.300	7027085
RKM 830 FS	85	300	1	261.600	7027087
RKM 840 FS	85	400	1	358.900	7027089
RKM 850 FS	85	500	1	483.800	7027091
RKM 860 FS	85	600	1	628.400	7027093
RKM 810 FT	85	100	1	116.600	7027101
RKM 820 FT	85	200	1	189.100	7027105
RKM 830 FT	85	300	1	280.500	7027107
RKM 840 FT	85	400	1	384.900	7027109
RKM 850 FT	85	500	1	518.900	7027111
RKM 860 FT	85	600	1	673.900	7027113

St Steel
 FS Strip-galvanised FT Hot-dip galvanised

Cross-over with quick connector system. For all cable tray types of 85 mm side height.

90° vertical bend, rising

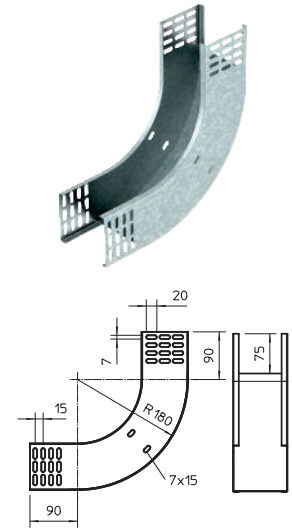
Type	Side height mm	Dimension B mm	Pack. pcs.	Weight	
				kg/100 pcs.	Item No.
RBV 810 S FS	85	100	1	97.100	7007230
RBV 820 S FS	85	200	1	132.600	7007234
RBV 830 S FS	85	300	1	156.200	7007238
RBV 840 S FS	85	400	1	179.900	7007242
RBV 850 S FS	85	500	1	203.500	7007246
RBV 860 S FS	85	600	1	227.100	7007250
RBV 810 S FT	85	100	1	97.100	7007231
RBV 820 S FT	85	200	1	132.600	7007235
RBV 830 S FT	85	300	1	156.200	7007239
RBV 840 S FT	85	400	1	179.900	7007243
RBV 850 S FT	85	500	1	203.500	7007247
RBV 860 S FT	85	600	1	227.100	7007251

St Steel

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

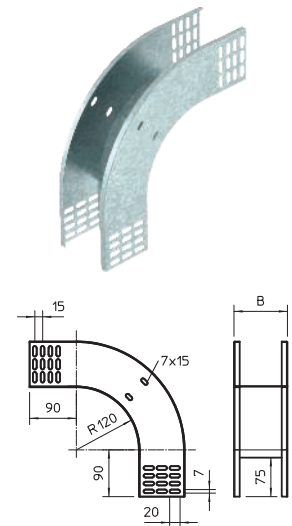
Type	Side height mm	Dimension B mm	Pack. pcs.	Weight	
				kg/100 pcs.	Item No.
RBV 810 F FS	85	100	1	86.600	7007270
RBV 820 F FS	85	200	1	104.200	7007274
RBV 830 F FS	85	300	1	121.800	7007278
RBV 840 F FS	85	400	1	139.500	7007282
RBV 850 F FS	85	500	1	157.100	7007286
RBV 860 F FS	85	600	1	174.700	7007290
RBV 810 F FT	85	100	1	86.600	7007271
RBV 820 F FT	85	200	1	104.200	7007275
RBV 830 F FT	85	300	1	121.800	7007279
RBV 840 F FT	85	400	1	139.500	7007283
RBV 850 F FT	85	500	1	157.100	7007287
RBV 860 F FT	85	600	1	174.700	7007291

St Steel

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.



90° articulated bend, vertical

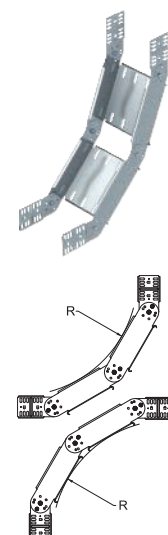
Type	Width mm	Pack. pcs.	Weight	
			kg/100 pcs.	Item No.
RGBV 810 FS	100	1	244.000	7006462
RGBV 820 FS	200	1	305.000	7006489
RGBV 830 FS	300	1	355.000	7006500
RGBV 840 FS	400	1	407.000	7006527
RGBV 850 FS	500	1	449.000	7006543
RGBV 860 FS	600	1	508.000	7006578
RGBV 810 FT	100	1	261.000	7080107
RGBV 820 FT	200	1	325.000	7080204
RGBV 830 FT	300	1	380.000	7080301
RGBV 840 FT	400	1	435.000	7080409
RGBV 850 FT	500	1	488.000	7080506
RGBV 860 FT	600	1	550.000	7080603

St Steel

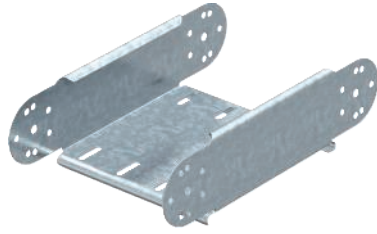
FS Strip-galvanised FT Hot-dip galvanised

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



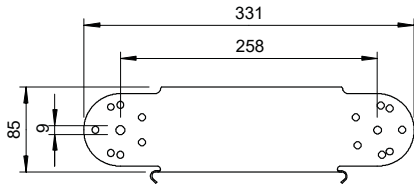
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGBEV 810 FS	85	1	71.500	7005466
RGBEV 820 FS	85	1	91.900	7005482
RGBEV 830 FS	85	1	112.400	7005504
RGBEV 840 FS	85	1	133.000	7005520
RGBEV 850 FS	85	1	153.100	7005547
RGBEV 860 FS	85	1	173.400	7005563
RGBEV 810 FT	85	1	76.700	7076096
RGBEV 820 FT	85	1	98.500	7076207
RGBEV 830 FT	85	1	120.500	7076304
RGBEV 840 FT	85	1	142.000	7076401
RGBEV 850 FT	85	1	164.100	7076509
RGBEV 860 FT	85	1	185.900	7076606

SI Steel

FS Strip-galvanised FT Hot-dip galvanised

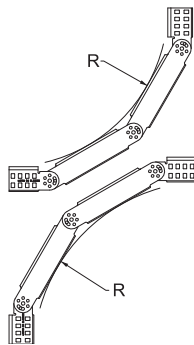
Adjustable vertical bend element, for all cable tray types with a side height of 85 mm.

Dimensions



Type	Width mm	Plate thickness mm
RGBEV 810 FS	100	1.00
RGBEV 820 FS	200	1.00
RGBEV 830 FS	300	1.00
RGBEV 840 FS	400	1.00
RGBEV 850 FS	500	1.00
RGBEV 860 FS	600	1.00

Installation



Radius table

Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	approx. 600 mm
4	approx. 750 mm
5	approx. 900 mm

Please order two RGV 85 articulated connectors separately.

Cable tray MKS-Magic®



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKSM 110 FS	100	1.00	3	235.400	6059156
MKSM 115 FS	150	1.00	3	271.500	6059158
MKSM 120 FS	200	1.00	3	289.830	6059160
MKSM 130 FS	300	1.00	3	327.210	6059162
MKSM 140 FS	400	1.00	3	364.590	6059164
MKSM 150 FS	500	1.00	3	401.960	6059166
MKSM 160 FS	600	1.00	3	406.550	6059168
MKSM 110 FT	100	1.00	3	256.700	6059173
MKSM 115 FT	150	1.00	3	296.000	6059175
MKSM 120 FT	200	1.00	3	316.000	6059177
MKSM 130 FT	300	1.00	3	356.720	6059179
MKSM 140 FT	400	1.00	3	397.700	6059181
MKSM 150 FT	500	1.00	3	438.360	6059183
MKSM 160 FT	600	1.00	3	479.000	6059185

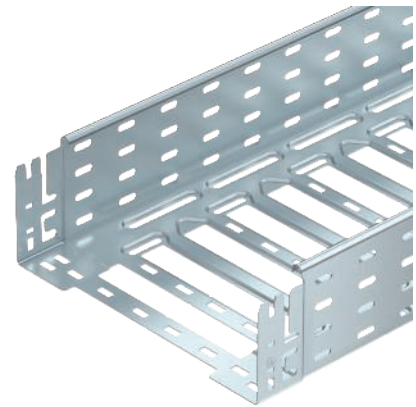
St Steel

FS Strip-galvanised FT Hot-dip galvanised

Continuous equipotential bonding is guaranteed without additional components.

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.

The cable tray possesses continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.

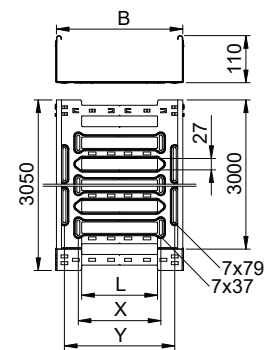


Cable tray systems, Magic

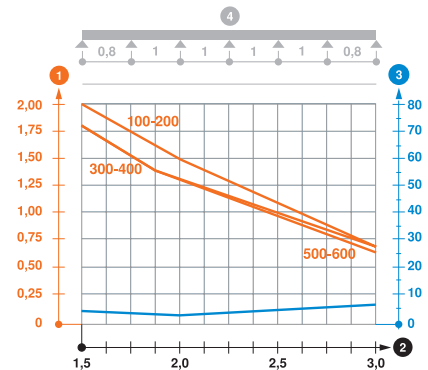


Type	Length mm	Useful Dimen- sion B mm	cross- section cm ²	Dimen- sion L mm	Dimen- sion x mm	Dimen- sion y mm
MKSM 110 FS	3050	100	108	30	—	62
MKSM 115 FS	3050	150	161	30	46	112
MKSM 120 FS	3050	200	218	80	96	162
MKSM 130 FS	3050	300	328	180	196	262
MKSM 140 FS	3050	400	438	280	296	362
MKSM 150 FS	3050	500	548	380	396	462
MKSM 160 FS	3050	600	655	480	496	562

Dimensions



Load

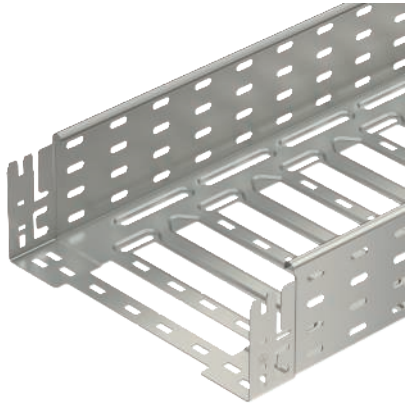


Type	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
MKSM 110 FS	2	1.5	0.7
MKSM 115 FS	2	1.5	0.7
MKSM 120 FS	2	1.5	0.7
MKSM 130 FS	1.8	1.3	0.7
MKSM 140 FS	1.8	1.3	0.7
MKSM 150 FS	1.8	1.3	0.65
MKSM 160 FS	1.8	1.3	0.65

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

Cable tray MKS-Magic®



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKSM 110 A2	100	1.00	3	236.720	6059190
MKSM 120 A2	200	1.00	3	291.800	6059194
MKSM 130 A2	300	1.00	3	329.180	6059196
MKSM 140 A2	400	1.00	3	366.890	6059198
MKSM 150 A2	500	1.00	3	404.590	6059200
MKSM 160 A2	600	1.00	3	441.970	6059202

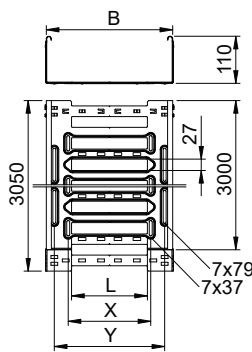
V2A Stainless steel, A2

Continuous equipotential bonding is guaranteed without additional components.

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.

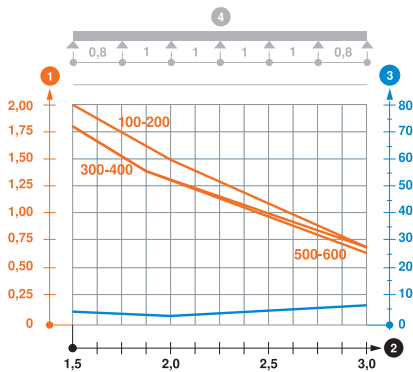
The cable tray possesses continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.

Dimensions



Type	Length mm	Dimen- sion B mm	Useful cross- section cm ²	Dimen- sion L mm	Dimen- sion x mm	Dimen- sion y mm
MKSM 110 A2	3050	100	108	30	—	62
MKSM 120 A2	3050	200	218	80	96	162
MKSM 130 A2	3050	300	328	180	196	262
MKSM 140 A2	3050	400	438	280	296	362
MKSM 150 A2	3050	500	548	380	396	462
MKSM 160 A2	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 A2	2	1.5	0.7
MKSM 120 A2	2	1.5	0.7
MKSM 130 A2	1.45	1.2	0.7
MKSM 140 A2	1.45	1.2	0.7
MKSM 150 A2	1.1	0.95	0.65
MKSM 160 A2	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

Cable tray SKS-Magic®



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
SKSM 110 FS	100	1.50	3	353.110	6059614
SKSM 115 FS	150	1.50	3	407.210	6059616
SKSM 120 FS	200	1.50	3	434.760	6059618
SKSM 130 FS	300	1.50	3	490.820	6059620
SKSM 140 FS	400	1.50	3	546.890	6059622
SKSM 150 FS	500	1.50	3	602.950	6059624
SKSM 160 FS	600	1.50	3	667.280	6059626
SKSM 110 FT	100	1.50	3	374.430	6059631
SKSM 115 FT	150	1.50	3	431.800	6059633
SKSM 120 FT	200	1.50	3	460.990	6059635
SKSM 130 FT	300	1.50	3	520.320	6059637
SKSM 140 FT	400	1.50	3	580.000	6059639
SKSM 150 FT	500	1.50	3	639.350	6059641
SKSM 160 FT	600	1.50	3	711.510	6059643

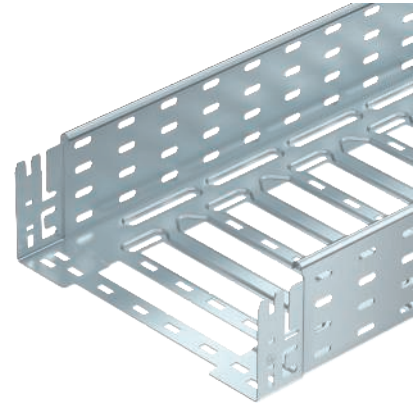
Sl Steel

FS Strip-galvanised FT Hot-dip galvanised

Continuous equipotential bonding is guaranteed without additional components.

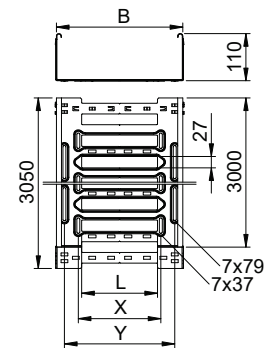
Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.

The cable tray possesses continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.

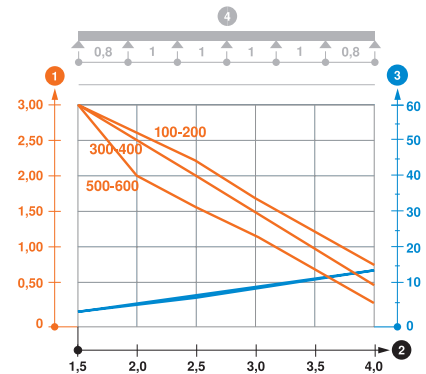


Type	Length mm	Useful				
		Dimen- sion B mm	cross- section cm ²	Dimen- sion L mm	Dimen- sion x mm	Dimen- sion y mm
SKSM 110 FS	3050	100	108	30	—	62
SKSM 115 FS	3050	150	161	30	46	112
SKSM 120 FS	3050	200	218	80	96	162
SKSM 130 FS	3050	300	328	180	196	262
SKSM 140 FS	3050	400	438	280	296	362
SKSM 150 FS	3050	500	548	380	396	462
SKSM 160 FS	3050	600	655	480	496	562

Dimensions



Load

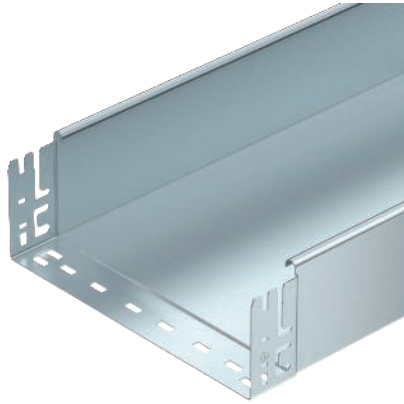


Type	1.5 m kN/m	3.0 m kN/m	4.0 m kN/m
SKSM 110 FS	3	1.7	0.8
SKSM 115 FS	3	1.7	0.8
SKSM 120 FS	3	1.7	0.8
SKSM 130 FS	3	1.5	0.5
SKSM 140 FS	3	1.5	0.5
SKSM 150 FS	3	1.2	0.3
SKSM 160 FS	3	1.2	0.3

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

Cable tray MKS-Magic®, unperforated



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKSMU 110 FS	100	1.00	3	269.510	6059382
MKSMU 115 FS	150	1.00	3	308.520	6059384
MKSMU 120 FS	200	1.00	3	347.870	6059386
MKSMU 130 FS	300	1.00	3	426.230	6059388
MKSMU 140 FS	400	1.00	3	504.920	6059390
MKSMU 150 FS	500	1.00	3	583.280	6059392
MKSMU 160 FS	600	1.00	3	661.640	6059394
MKSMU 110 FT	100	1.00	3	290.500	6059399
MKSMU 115 FT	150	1.00	3	336.390	6059401
MKSMU 120 FT	200	1.00	3	379.340	6059403
MKSMU 130 FT	300	1.00	3	464.920	6059405
MKSMU 140 FT	400	1.00	3	550.160	6059407
MKSMU 150 FT	500	1.00	3	636.000	6059409
MKSMU 160 FT	600	1.00	3	721.310	6059411

SI Steel

FS Strip-galvanised FT Hot-dip galvanised

Unperforated cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation.

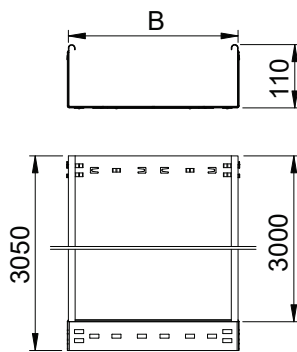
The stock length is 3,050 mm, the usable length when combined is 3,000 mm.

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.

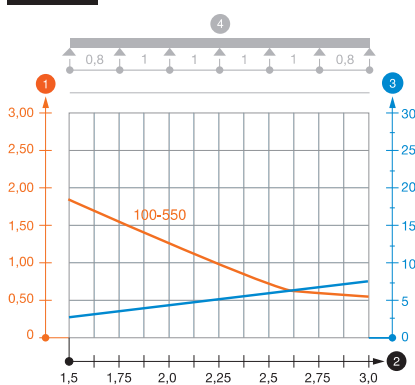
VDE-tested cable tray system.

Dimensions



Type	Length mm	Dimen- sion B mm	Useful cross- section cm ²
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

Cable tray MKS-Magic®, unperforated



Type	Plate thickness		Pack. m	Weight kg/100 m	Item No.
	Width mm	mm			
MKSMU 110 A2	100	1.00	3	271.150	6059416
MKSMU 120 A2	200	1.00	3	350.160	6059420
MKSMU 130 A2	300	1.00	3	428.900	6059422
MKSMU 140 A2	400	1.00	3	507.860	6059424
MKSMU 150 A2	500	1.00	3	586.880	6059426
MKSMU 160 A2	600	1.00	3	665.900	6059428

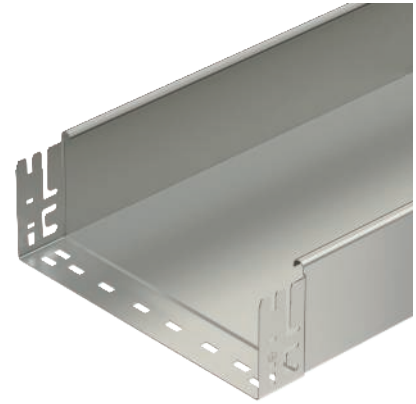
V2A Stainless steel, A2

Unperforated cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation.

The stock length is 60 mm, the usable length when combined is 60 mm.

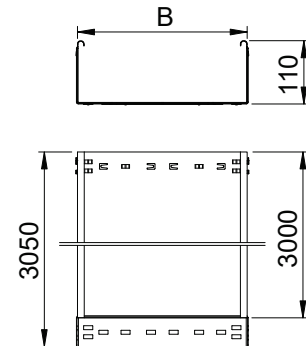
The spring element FED 60 can be ordered separately as a accessory part (spare) for the Magic cable trays with a side height of 60 mm, 85 mm and 110 mm under the article number 6068859. The continuous equipotential bonding is guaranteed without additional components. VDE-tested cable tray system.

MKSMU 110 = Medium duty Magic cable tray system, unperforated, with a side height of 110 mm.

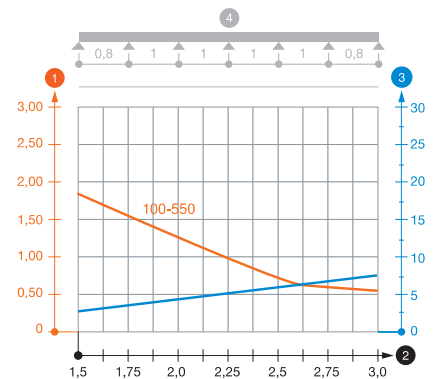


Type	Length mm	Dimension B mm	Useful cross-section cm ²
MKSMU 110 A2	3050	200	218
MKSMU 120 A2	3050	300	328
MKSMU 130 A2	3050	400	438
MKSMU 140 A2	3050	500	548
MKSMU 150 A2	3050	600	655
MKSMU 160 A2			

Dimensions



Load

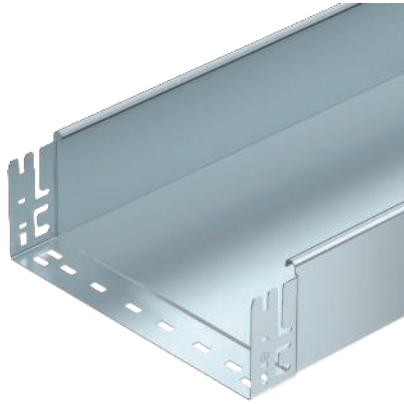


Type	1.5 m	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/m	kN/m
MKSMU 110 A2	1.85	1.3	0.75	0.6
MKSMU 120 A2	1.85	1.3	0.75	0.6
MKSMU 130 A2	1.85	1.3	0.75	0.6
MKSMU 140 A2	1.85	1.3	0.75	0.6
MKSMU 150 A2	1.85	1.3	0.75	0.6
MKSMU 160 A2	1.85	1.3	0.75	0.6

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

Cable tray SKS-Magic®, unperforated



Type	Plate thickness		Pack. m	Weight kg/100 m	Item No.
	Width mm	mm			
SKSMU 110 FS	100	1.50	3	403.940	6059836
SKSMU 115 FS	150	1.50	3	462.950	6059838
SKSMU 120 FS	200	1.50	3	521.640	6059840
SKSMU 130 FS	300	1.50	3	639.350	6059842
SKSMU 140 FS	400	1.50	3	757.050	6059844
SKSMU 150 FS	500	1.50	3	874.760	6059846
SKSMU 160 FS	600	1.50	3	992.430	6059848
SKSMU 110 FT	100	1.50	3	428.200	6059853
SKSMU 115 FT	150	1.50	3	490.820	6059855
SKSMU 120 FT	200	1.50	3	553.100	6059857
SKSMU 130 FT	300	1.50	3	678.040	6059859
SKSMU 140 FT	400	1.50	3	802.630	6059861
SKSMU 150 FT	500	1.50	3	827.540	6059863
SKSMU 160 FT	600	1.50	3	1,058.230	6059865

SI Steel

FS Strip-galvanised FT Hot-dip galvanised

Unperforated cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation.

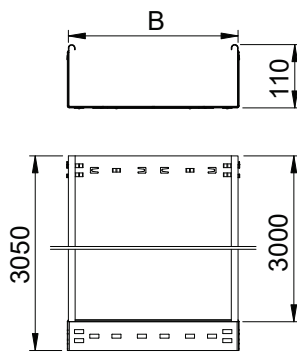
The stock length is 3,050 mm, the usable length when combined is 3,000 mm.

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.

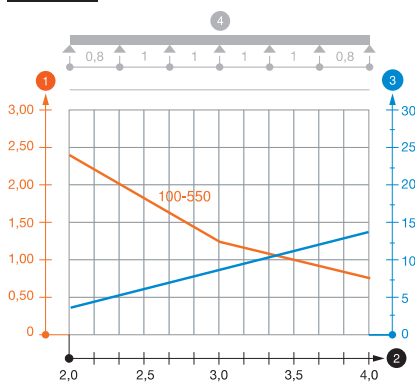
VDE-tested cable tray system.

Dimensions



Type	Length mm	Dimension B mm	Useful cross-section cm ²
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 2.0 m 3.0 m 4.0 m			
	kN/m	kN/m	kN/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

Separating retainer

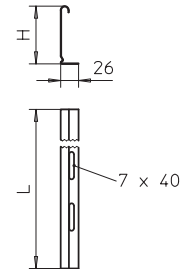
Type	Dimension H mm	Plate thickness mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 110 FS	110	0.75	3000	3	85.000	6062122
TSG 110 DD	110	0.75	3000	3	85.000	6062335
TSG 110 A2	110	0.75	3000	3	84.340	6062255

St Steel

V2A Stainless steel, A2

FS Strip-galvanised DD Strip galvanised zinc/aluminium,double dip

Barrier strip for separation of cables of different voltages or functions.

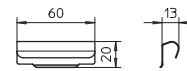


Separating retainer connector

Type	Pack. pcs	Weight kg/100 pcs	Item No.
TSGV A2	10	0.923	6067970

V2A Stainless steel, A2

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.



Magic straight connector set

Type	Dimension B 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
KTSMV 110 A2	100	1	44.100	6069134
KTSMV 120 A2	200	1	50.800	6069138
KTSMV 130 A2	300	1	57.600	6069140
KTSMV 140 A2	400	1	64.300	6069142
KTSMV 150 A2	500	1	71.000	6069144
KTSMV 160 A2	600	1	77.800	6069146

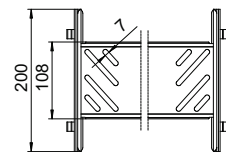
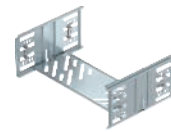
St Steel

V2A Stainless steel, A2

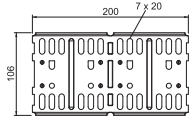
FS Strip-galvanised DD Strip galvanised zinc/aluminium,double dip

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 and angle connector



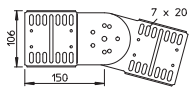
Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
RLVL 110 FS	110	10	33.800	6067131
RLVL 110 FT	110	10	35.100	6067913
RLVL 110 A2	110	10	33.400	6067948

St Steel **V2A** Stainless steel, A2
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



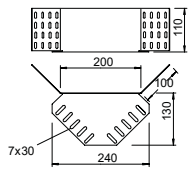
Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
RGV 110 FS	110	10	61.700	7082037
RGV 110 FT	110	10	64.300	7082436
RGV 110 A2	110	4	61.700	7082479

St Steel **V2A** Stainless steel, A2
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



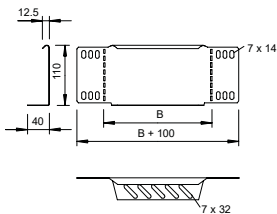
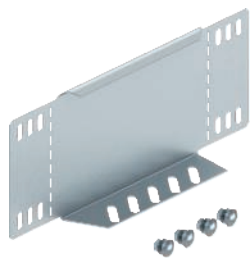
Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
REV 110 FS	110	10	72.000	6067999
REV 110 DD	110	10	72.000	6069339
REV 110 A2	110	5	75.000	6068049

St Steel **V2A** Stainless steel, A2
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.

Reducing bracket/end closure



Type	Side height mm	Dimension B 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
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.

Magic straight connector

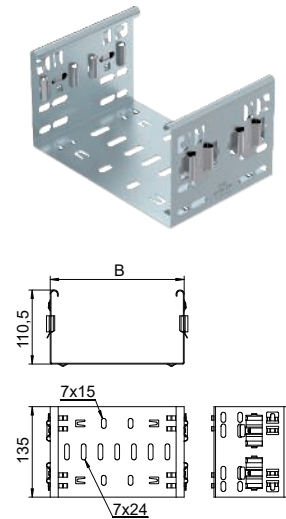
Type	Side height mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FVM 110 DD	110	100	1	42.900	6065910
FVM 115 DD	110	150	1	48.900	6065912
FVM 120 DD	110	200	1	55.000	6065914
FVM 130 DD	110	300	1	67.700	6065916
FVM 140 DD	110	400	1	80.400	6065918
FVM 150 DD	110	500	1	92.600	6065920
FVM 160 DD	110	600	1	105.000	6065922
FVM 110 A2	110	100	1	42.900	6065930
FVM 120 A2	110	200	1	55.000	6065934
FVM 130 A2	110	300	1	67.700	6065936
FVM 140 A2	110	400	1	80.400	6065938
FVM 150 A2	110	500	1	92.400	6065940
FVM 160 A2	110	600	1	105.000	6065942

St Steel V2A Stainless steel, A2
 DD Strip galvanised zinc/aluminium, double dip

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.

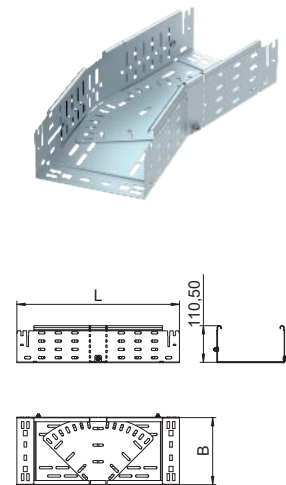


Magic bend, variable

Type	Side height mm	Dimension B mm	Dimension L mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBMV 110 FS	110	100	340	1.00	1	103.900	6040680
RBMV 115 FS	110	150	420	1.00	1	152.200	6040682
RBMV 120 FS	110	200	490	1.00	1	209.200	6040684
RBMV 130 FS	110	300	640	1.25	1	357.800	6040686
RBMV 140 FS	110	400	820	1.25	1	548.400	6040688
RBMV 150 FS	110	500	960	1.50	1	1,134.000	6040690
RBMV 160 FS	110	600	1120	1.50	1	1,522.400	6040692
RBMV 110 FT	110	100	340	1.00	1	117.600	6040700
RBMV 115 FT	110	150	420	1.00	1	170.500	6040702
RBMV 120 FT	110	200	490	1.00	1	228.100	6040704
RBMV 130 FT	110	300	640	1.25	1	474.400	6040706
RBMV 140 FT	110	400	820	1.25	1	733.500	6040708
RBMV 150 FT	110	500	960	1.50	1	1,202.400	6040710
RBMV 160 FT	110	600	1120	1.50	1	1,614.200	6040712

St Steel
 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.

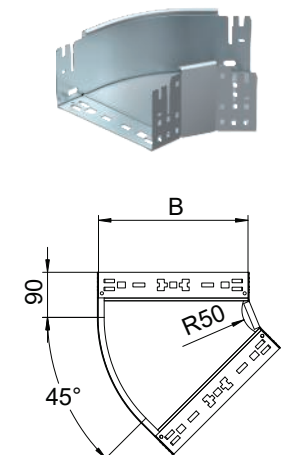


45° Magic bend

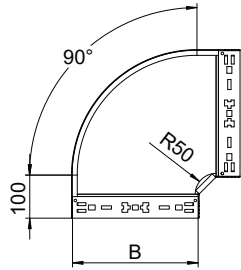
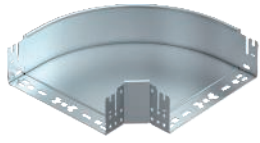
Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBM 45 110 FS	100	1	70.500	6041750
RBM 45 115 FS	150	1	89.300	6041751
RBM 45 120 FS	200	1	109.900	6041752
RBM 45 130 FS	300	1	156.100	6041754
RBM 45 140 FS	400	1	206.500	6041756
RBM 45 150 FS	500	1	268.300	6041758
RBM 45 160 FS	600	1	337.700	6041760
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
 FS Strip-galvanised FT Hot-dip galvanised

45° bend with quick connector system. For all cable tray types of 110 mm side height.



90° Magic bend

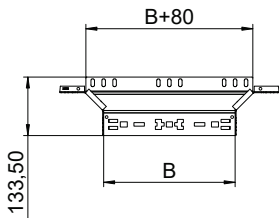
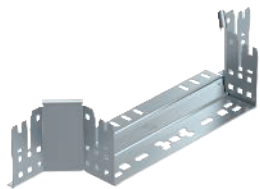


Type	Side height mm	Dimension B mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
RBM 90 110 FS	110	100	1	90.900	6041840
RBM 90 115 FS	110	150	1	121.000	6041841
RBM 90 120 FS	110	200	1	154.900	6041842
RBM 90 130 FS	110	300	1	233.400	6041844
RBM 90 140 FS	110	400	1	323.600	6041846
RBM 90 150 FS	110	500	1	433.100	6041848
RBM 90 160 FS	110	600	1	558.000	6041850
RBM 90 110 FT	110	100	1	97.500	6041860
RBM 90 115 FT	110	150	1	129.800	6041861
RBM 90 120 FT	110	200	1	166.100	6041862
RBM 90 130 FT	110	300	1	250.300	6041864
RBM 90 140 FT	110	400	1	347.000	6041866
RBM 90 150 FT	110	500	1	464.400	6041868
RBM 90 160 FT	110	600	1	598.400	6041870
RBM 90 110 A2	110	100	1	90.900	6041880
RBM 90 120 A2	110	200	1	154.900	6041882
RBM 90 130 A2	110	300	1	233.400	6041884
RBM 90 140 A2	110	400	1	323.600	6041886
RBM 90 150 A2	110	500	1	433.100	6041888
RBM 90 160 A2	110	600	1	558.000	6041890

St Steel V2A Stainless steel, A2
 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	Side height mm	Dimension B mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
RAAM 110 FS	110	100	1	53.700	6041920
RAAM 115 FS	110	150	1	60.000	6041921
RAAM 120 FS	110	200	1	66.300	6041922
RAAM 130 FS	110	300	1	79.200	6041924
RAAM 140 FS	110	400	1	92.200	6041926
RAAM 150 FS	110	500	1	105.100	6041928
RAAM 160 FS	110	600	1	118.400	6041930
RAAM 110 FT	110	100	1	57.600	6041940
RAAM 115 FT	110	150	1	64.300	6041941
RAAM 120 FT	110	200	1	71.100	6041942
RAAM 130 FT	110	300	1	84.900	6041944
RAAM 140 FT	110	400	1	98.900	6041946
RAAM 150 FT	110	500	1	112.700	6041948
RAAM 160 FT	110	600	1	127.000	6041950
RAAM 110 A2	110	100	1	53.700	6041960
RAAM 120 A2	110	200	1	66.300	6041962
RAAM 130 A2	110	300	1	79.200	6041964
RAAM 140 A2	110	400	1	92.200	6041966
RAAM 150 A2	110	500	1	105.100	6041968
RAAM 160 A2	110	600	1	118.400	6041970

St Steel V2A Stainless steel, A2
 FS Strip-galvanised FT Hot-dip galvanised

Add-on tee with quick connector system. For all cable tray types of 110 mm side height.

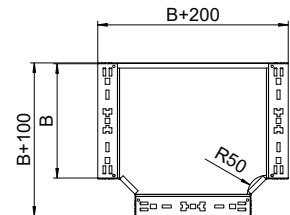
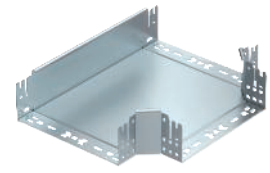
Magic tee

Type	Side height mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RTM 110 FS	110	100	1	113.600	6042010
RTM 115 FS	110	150	1	147.200	6042011
RTM 120 FS	110	200	1	185.500	6042012
RTM 130 FS	110	300	1	275.600	6042014
RTM 140 FS	110	400	1	380.300	6042018
RTM 150 FS	110	500	1	510.100	6042020
RTM 160 FS	110	600	1	659.500	6042022
RTM 110 FT	110	100	1	121.800	6042030
RTM 115 FT	110	150	1	157.900	6042032
RTM 120 FT	110	200	1	198.900	6042034
RTM 130 FT	110	300	1	295.500	6042036
RTM 140 FT	110	400	1	407.800	6042038
RTM 150 FT	110	500	1	547.000	6042040
RTM 160 FT	110	600	1	707.200	6042042
RTM 110 A2	110	100	1	113.600	6042050
RTM 120 A2	110	200	1	185.500	6042052
RTM 130 A2	110	300	1	275.600	6042054
RTM 140 A2	110	400	1	380.300	6042056
RTM 150 A2	110	500	1	510.100	6042060
RTM 160 A2	110	600	1	659.500	6042062

Sl Steel V2A Stainless steel, A2

FS Strip-galvanised FT Hot-dip galvanised

Tee with quick connector system. For all cable tray types of 110 mm side height.



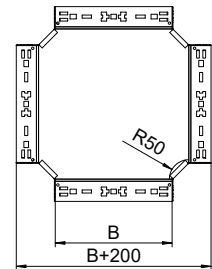
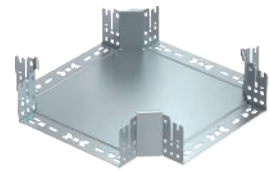
Magic cross-over

Type	Side height mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RKM 110 FS	110	100	1	124.700	7027161
RKM 115 FS	110	150	1	156.100	7027163
RKM 120 FS	110	200	1	192.300	7027165
RKM 130 FS	110	300	1	277.600	7027167
RKM 140 FS	110	400	1	374.800	7027169
RKM 150 FS	110	500	1	499.800	7027171
RKM 160 FS	110	600	1	644.300	7027173
RKM 110 FT	110	100	1	133.700	7027181
RKM 115 FT	110	150	1	167.400	7027183
RKM 120 FT	110	200	1	206.200	7027185
RKM 130 FT	110	300	1	297.700	7027187
RKM 140 FT	110	400	1	401.900	7027189
RKM 150 FT	110	500	1	536.000	7027191
RKM 160 FT	110	600	1	690.900	7027193
RKM 110 A2	110	100	1	124.700	7027201
RKM 120 A2	110	200	1	192.300	7027205
RKM 130 A2	110	300	1	277.600	7027207
RKM 140 A2	110	400	1	374.800	7027209
RKM 150 A2	110	500	1	499.800	7027211
RKM 160 A2	110	600	1	644.300	7027213

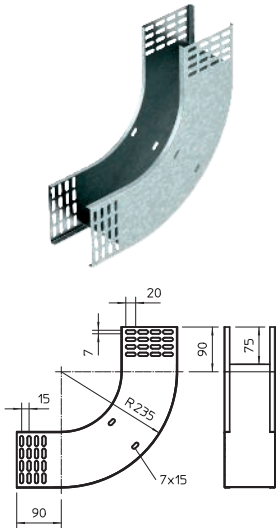
Sl Steel V2A Stainless steel, A2

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

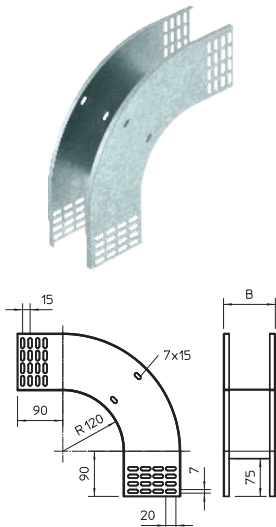


Type	Side height mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 110 S FS	110	100	1	120.100	7007310
RBV 115 S FS	110	150	1	135.000	7007312
RBV 120 S FS	110	200	1	151.300	7007314
RBV 130 S FS	110	300	1	182.400	7007318
RBV 140 S FS	110	400	1	213.600	7007322
RBV 150 S FS	110	500	1	244.800	7007326
RBV 160 S FS	110	600	1	274.000	7007333
RBV 110 S FT	110	100	1	120.000	7007398
RBV 115 S FT	110	150	1	147.000	7007313
RBV 120 S FT	110	200	1	163.000	7007400
RBV 130 S FT	110	300	1	182.400	7007319
RBV 140 S FT	110	400	1	231.000	7007404
RBV 150 S FT	110	500	1	244.800	7007327
RBV 160 S FT	110	600	1	299.000	7007334

St Steel
 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.

90° vertical bend, falling



Type	Side height mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 110 F FS	110	100	1	106.300	7007350
RBV 115 F FS	110	150	1	114.000	7007352
RBV 120 F FS	110	200	1	124.000	7007354
RBV 130 F FS	110	300	1	141.600	7007358
RBV 140 F FS	110	400	1	159.200	7007362
RBV 150 F FS	110	500	1	176.900	7007366
RBV 160 F FS	110	600	1	193.000	7007373
RBV 110 F FT	110	100	1	120.000	7007468
RBV 115 F FT	110	150	1	124.000	7007353
RBV 120 F FT	110	200	1	134.000	7007470
RBV 130 F FT	110	300	1	141.600	7007359
RBV 140 F FT	110	400	1	172.000	7007474
RBV 150 F FT	110	500	1	176.900	7007367
RBV 160 F FT	110	600	1	210.000	7007374

St Steel
 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.

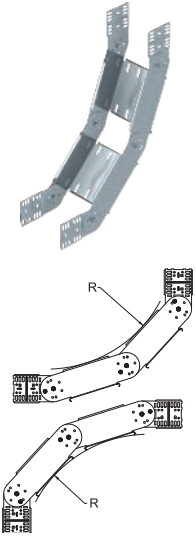
90° articulated bend, vertical

Type	Width mm	Pack. pcs	Weight	
			kg/100 pcs.	Item No.
RGBV 110 FS	100	1	363.000	7006624
RGBV 115 FS	150	1	392.000	7006632
RGBV 120 FS	200	1	420.000	7006640
RGBV 130 FS	300	1	480.000	7006667
RGBV 140 FS	400	1	530.000	7006683
RGBV 150 FS	500	1	580.000	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	480.000	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

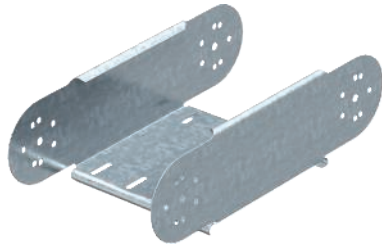
St Steel

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	Side height mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
RGBEV 110 FS	110	1	96.500	7005628
RGBEV 115 FS	110	1	106.700	7005636
RGBEV 120 FS	110	1	116.800	7005644
RGBEV 130 FS	110	1	137.200	7005660
RGBEV 140 FS	110	1	157.500	7005687
RGBEV 150 FS	110	1	177.900	7005709
RGBEV 160 FS	110	1	175.000	7005723
RGBEV 110 FT	110	1	103.400	7077106
RGBEV 115 FT	110	1	114.300	7077112
RGBEV 120 FT	110	1	125.200	7077203
RGBEV 130 FT	110	1	147.100	7077300
RGBEV 140 FT	110	1	168.900	7077408
RGBEV 150 FT	110	1	193.600	7077505
RGBEV 160 FT	110	1	186.000	7077972

SI Steel

FS Strip-galvanised FT Hot-dip galvanised

Articulated bend element, vertical, for all cable tray types with a side height of 110 mm.

Dimensions

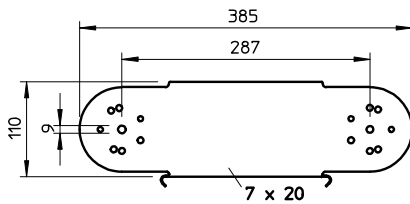
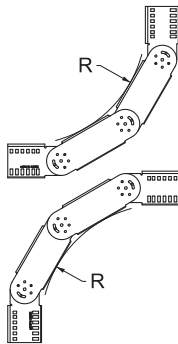


	Plate	
	Width mm	thickness mm
RGBEV 110 FS	100	1.00
RGBEV 115 FS	150	1.00
RGBEV 120 FS	200	1.00
RGBEV 130 FS	300	1.00
RGBEV 140 FS	400	1.00
RGBEV 150 FS	500	1.00
RGBEV 160 FS	600	1.00

Installation



Radius table

Quantity of elements	Radius
1	Approx. 300 mm
2	Approx. 450 mm
3	Approx. 600 mm
4	Approx. 750 mm
5	Approx. 900 mm

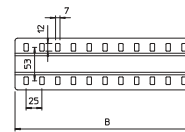
Please order two RGV 110 articulated connectors separately.

Joint plate

Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SSLB 100 FS	100	20	7.700	7070205
SSLB 150 FS	150	20	12.200	7070209
SSLB 200 FS	200	20	16.700	7070213
SSLB 300 FS	300	20	25.700	7070217
SSLB 400 FS	400	20	34.700	7070221
SSLB 500 FS	500	20	43.700	7070225
SSLB 600 FS	600	20	52.700	7070233
SSLB 100 DD	100	20	7.700	7070306
SSLB 150 DD	150	20	12.200	7070310
SSLB 200 DD	200	20	16.700	7070314
SSLB 300 DD	300	20	25.700	7070318
SSLB 400 DD	400	20	34.700	7070322
SSLB 500 DD	500	20	43.700	7070326
SSLB 550 DD	550	20	48.200	7070330
SSLB 600 DD	600	20	52.700	7070334
SSLB 100 A2	100	20	7.700	7070353
SSLB 200 A2	200	20	16.700	7070361
SSLB 300 A2	300	20	25.700	7070365
SSLB 400 A2	400	20	34.700	7070369
SSLB 500 A2	500	20	43.700	7070373
SSLB 600 A2	600	20	52.700	7070381
SSLB 100 A4	100	20	7.700	7070390
SSLB 200 A4	200	20	16.700	7070392
SSLB 300 A4	300	20	25.700	7070394
SSLB 400 A4	400	20	34.700	7070396
SSLB 500 A4	500	20	43.700	7070398
SSLB 600 A4	600	20	52.700	7070400

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4
 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.

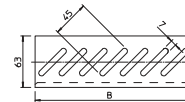


Bottom end plate

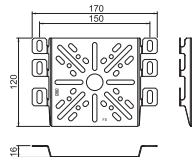
Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BEB 100 FS	100	100	5.400	7083106
BEB 150 FS	150	100	8.400	7083157
BEB 200 FS	200	100	11.400	7083203
BEB 300 FS	300	100	17.200	7083300
BEB 400 FS	400	100	23.100	7083408
BEB 500 FS	500	50	29.000	7083505
BEB 600 FS	600	50	35.000	7083602
BEB 100 DD	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
BEB 100 A2	100	100	5.400	7084013
BEB 150 A2	150	100	8.400	7084015
BEB 200 A2	200	100	11.400	7084048
BEB 300 A2	300	100	17.200	7084064
BEB 400 A2	400	100	23.100	7084080
BEB 500 A2	500	50	29.000	7084102
BEB 600 A2	600	50	35.000	7084129
BEB 100 A4	100	100	5.400	7084141
BEB 150 A4	150	100	8.400	7084142
BEB 200 A4	200	100	11.400	7084143
BEB 300 A4	300	100	17.200	7084145
BEB 400 A4	400	100	23.100	7084147
BEB 500 A4	500	50	29.000	7084149
BEB 600 A4	600	50	35.000	7084151

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4
 FS Strip-galvanised DD Strip galvanised zinc/aluminium, double dip

For fastening, please order screws, type FRSB M6x12, separately.
 Bottom end plate for floor reinforcement at the ends of the cable tray and as cable protection.



Mounting plate for cable tray



Type	Height mm	Width mm	Pack. pcs	Weight		Item No.
				kg/100 pcs.		
MP UNI FS	115	170	40	13.300		7084773
MP UNI DD	115	170	40	11.000		7085114
MP UNI A2	115	170	40	11.000		7085133

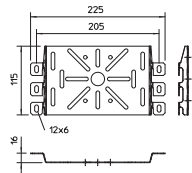
SI Steel **V2A** Stainless steel, A2

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.

Wall bracket / mounting plate



Type	Height mm	Width mm	Pack. pcs	Weight		Item No.
				kg/100 pcs.		
MP 225 UNI FS	115	225	20	20.000		7084870

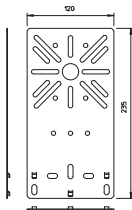
SI Steel

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.

Wall bracket / mounting plate



Type	Height mm	Width mm	Pack. pcs	Weight		Item No.
				kg/100 pcs.		
MP FL FS	235	120	40	19.200		7084757
MP FL DD	235	120	40	19.200		7085108

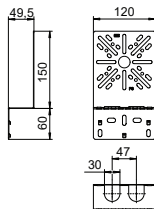
SI Steel

FS Strip-galvanised **DD** Strip galvanised zinc/aluminium,double dip

Please order the truss-head bolt, type FRS B6 x 12, separately.

Flat mounting plate, for fastening on the side rail of the cable tray.

Mounting plate, angled



Type	Height mm	Width mm	Pack. pcs	Weight		Item No.
				kg/100 pcs.		
MP WI KL. FS	210	120	20	20.200		7084765
MP WI KL. DD	210	120	20	20.200		7085111

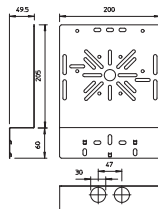
SI Steel

FS Strip-galvanised **DD** Strip galvanised zinc/aluminium,double dip

Please order the truss-head bolt, type FRS B6 x 12, separately.

Curved mounting plate, for fixing on the side rail of the cable tray.

Wall bracket / mounting plate



Type	Height mm	Width mm	Pack. pcs	Weight		Item No.
				kg/100 pcs.		
MP WI GR. FS	240	200	25	39.400		7084781
MP WI GR. DD	240	200	25	39.400		7085112

SI Steel

FS Strip-galvanised **DD** Strip galvanised zinc/aluminium,double dip

Please order the truss-head bolt, type FRS B6 x 12, separately.

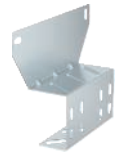
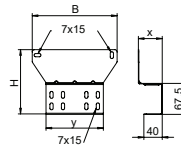
Angled mounting plate, for fastening on the side rail of the cable tray.

Mounting plate for FireBox T series

Type	Dimension H mm	Dimension B mm	Dimension x mm	Dimension y mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MP T610	141	185	52	125	1	23.600	7205480
MP T616	159	220	63	165	1	34.500	7205484

Sl Steel

DD Strip galvanised zinc/aluminium, double dip

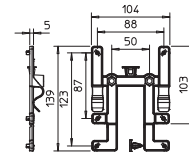


Mounting plate for the fastening of junction boxes of the FireBox T series (with external fastening) onto cable trays or cable ladders with a side height of 60 mm. The angled construction from sheet steel reinforced through crimps enables the secure mounting of cables that maintain electrical function, without having to bend the cable over the side rail. Including fastening material.

Fastening element for cable tray

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
BE TS KR	10	2.800	2007835

PC Polycarbonate

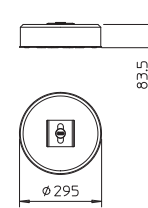


The fastening element BE TS KR can be used to attach OBO junction boxes, type T60 and T100, to all standard cable trays in a few actions, quickly and without tools. This keeps the junction box securely in position. However, it can be quickly dismantled as necessary. This is all done without using tools.

Stand - TrayFix set 10 L

Type	From tray width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TrayFix-10-L	100	1	1,100.000	5403101

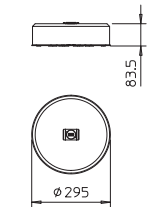
- Mounting system for the fastening of mesh cable trays with the FangFix stone, e.g. cable routing on a flat roof.
- Matched to OBO cable tray systems MKSM and SKSM.
- Matched to OBO mesh cable systems with a minimum width of 100 mm.
- Set consisting of TrayFix mounting adapter and concrete block including base for FangFix system 16 kg



Stand - TrayFix set 10 S

Type	From tray width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TrayFix-10-S	100	1	1,000.000	5403102

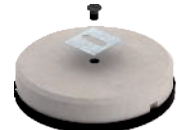
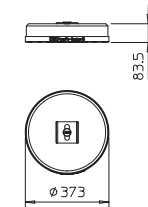
- Mounting system for the fastening of mesh cable trays with the FangFix stone, e.g. cable routing on a flat roof.
- Matches OBO mesh cable tray systems with a minimum width of 100 mm
- Set consisting of TrayFix mounting adapter and concrete block including base for FangFix system 10 kg



Stand - TrayFix set 16 L

Type	From tray width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TrayFix-16-L	100	1	1,700.000	5403098

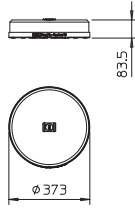
- Mounting system for the fastening of mesh cable trays with the FangFix stone, e.g. cable routing on a flat roof.
- Matched to OBO cable tray systems MKSM and SKSM.
- Matched to OBO mesh cable systems with a minimum width of 100 mm.
- Set consisting of TrayFix mounting adapter and concrete block including base for FangFix system 16 kg



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Cable tray systems, Magic

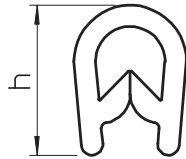
Stand - TrayFix set 16 S



Type	From tray width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TrayFix-16-S	100	1	1,700.000	5403099

- Mounting system for the fastening of mesh cable trays with the FangFix stone, e.g. cable routing on a flat roof.
- Matches 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

Edge protection strip

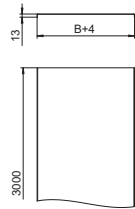
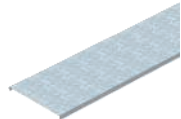


Type	For plate thickness mm	Dimension h mm	Pack. m	Weight kg/100 m	Item No.
KSB 2 PVC	0.75 - 2	10	10	8.000	6072909
KSB 4 PVC	1.5 - 4	15	10	14.000	6072895

PVC Polyvinylchloride

Edge protection strip with steel inlay to cover cut plate ends. Black, UV-resistant version.

Cover



Type	Dimension B mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRLU 100 FS	100	0.75	3000	3	99.000	6052103
DRLU 150 FS	150	0.75	3000	3	138.270	6052153
DRLU 200 FS	200	1.00	3000	3	177.500	6052210
DRLU 300 FS	300	1.00	3000	3	256.000	6052307
DRLU 400 FS	400	1.00	3000	3	334.670	6052405
DRLU 500 FS	500	1.25	3000	3	619.230	6052512
DRLU 600 FS	600	1.25	3000	3	737.000	6052609
DRLU 100 DD	100	0.75	3000	3	99.000	6052643
DRLU 150 DD	150	0.75	3000	3	138.270	6052647
DRLU 200 DD	200	1.00	3000	3	177.500	6052650
DRLU 300 DD	300	1.00	3000	3	256.000	6052656
DRLU 400 DD	400	1.00	3000	3	334.500	6052662
DRLU 500 DD	500	1.25	3000	3	619.230	6052668
DRLU 600 DD	600	1.25	3000	3	737.000	6052674
DRLU 050 A2	50	1.00	3000	3	59.770	6052821
DRLU 100 A2	100	1.00	3000	3	99.000	6052824
DRLU 150 A2	150	1.00	3000	3	138.240	6052828
DRLU 200 A2	200	1.00	3000	3	177.500	6052831
DRLU 300 A2	300	1.00	3000	3	256.000	6052834
DRLU 400 A2	400	1.00	3000	3	334.500	6052837
DRLU 500 A2	500	1.25	3000	3	619.170	6052841
DRLU 600 A2	600	1.25	3000	3	736.900	6052844
DRLU 100 A4	100	1.00	3000	3	99.000	6052991
DRLU 150 A4	150	1.00	3000	3	138.240	6052992
DRLU 200 A4	200	1.00	3000	3	177.500	6052993
DRLU 300 A4	300	1.00	3000	3	256.000	6052994
DRLU 400 A4	400	1.00	3000	3	334.500	6052995
DRLU 500 A4	500	1.25	3000	3	619.170	6052996
DRLU 600 A4	600	1.25	3000	3	736.900	6052998

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4

FS Strip-galvanised **DD** Strip galvanised zinc/aluminium, double dip

Transverse bead from 500 mm width.

Cover for cable trays and mesh cable trays.

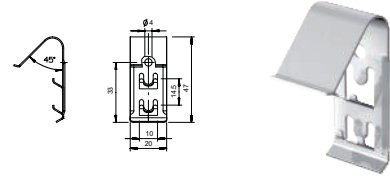
When using covers outdoors, additional measures against the influence of wind must be taken.

Cover clamp, universal

Type	Pack. pcs	Weight		Item No.
		kg/100 pcs.	kg/100 pcs.	
DKU A2	20	0.800	0.800	6065600

V2A Stainless steel, A2

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.

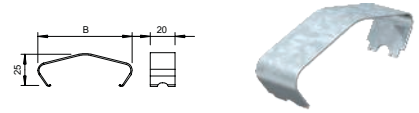


Cover clamp

Type	Dimension B mm	Pack. pcs	Weight		Item No.
			kg/100 pcs.	kg/100 pcs.	
DKL 35 A2	50.9	20	1.400	1.400	6065503
DKL 45 A2	60.9	20	1.600	1.600	6065511
DKL 60 A2	75.9	20	1.800	1.800	6065538
DKL 85 A2	95.9	20	2.100	2.100	6065546
DKL 110 A2	120.9	20	2.400	2.400	6065554

V2A Stainless steel, A2

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.



Cover with turn buckle

Type	Dimension B mm	Plate thickness mm	Length mm	Pack. m	Weight		Item No.
					kg/100 m	kg/100 m	
DRL 100 FS	100	1.00	3000	3	103.000	103.000	6052096
DRL 150 FS	150	1.00	3000	3	141.667	141.667	6052150
DRL 200 FS	200	1.00	3000	3	181.340	181.340	6052207
DRL 300 FS	300	1.00	3000	3	259.334	259.334	6052304
DRL 400 FS	400	1.00	3000	3	338.670	338.670	6052401
DRL 500 FS	500	1.25	3000	3	623.000	623.000	6052509
DRL 600 FS	600	1.25	3000	3	741.000	741.000	6052606
DRL 100 DD	100	1.00	3000	3	106.340	106.340	6052703
DRL 150 DD	150	1.00	3000	3	145.670	145.670	6052706
DRL 200 DD	200	1.00	3000	3	185.000	185.000	6052709
DRL 300 DD	300	1.00	3000	3	263.340	263.340	6052712
DRL 400 DD	400	1.00	3000	3	342.070	342.070	6052715
DRL 500 DD	500	1.25	3000	3	626.670	626.670	6052718
DRL 600 DD	600	1.25	3000	3	744.570	744.570	6052724
DRL 100 FT	100	0.75	3000	3	106.670	106.670	6051340
DRL 150 FT	150	1.00	3000	3	159.340	159.340	6051359
DRL 200 FT	200	1.00	3000	3	202.670	202.670	6051367
DRL 300 FT	300	1.00	3000	3	289.000	289.000	6051383
DRL 400 FT	400	1.50	3000	3	542.000	542.000	6051413
DRL 500 FT	500	1.50	3000	3	667.670	667.670	6051448
DRL 600 FT	600	1.50	3000	3	793.000	793.000	6051472

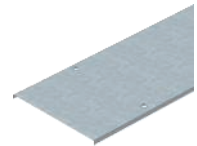
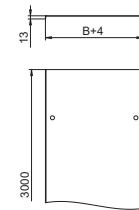
St Steel

FS Strip-galvanised FT Hot-dip galvanised DD Strip galvanised zinc/aluminium, double dip

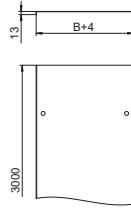
Transverse bead from 500 mm width.

Cover for cable trays and cable ladders with turn buckles.

When using covers outdoors, additional measures against the influence of wind must be taken.



Cover with turn buckle



Type	Dimension B mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRL 100 A2	100	1.00	3000	3	105.070	6052878
DRL 150 A2	150	1.00	3000	3	144.400	6052886
DRL 200 A2	200	1.00	3000	3	183.500	6052894
DRL 300 A2	300	1.00	3000	3	262.250	6052908
DRL 400 A2	400	1.00	3000	3	340.400	6052932
DRL 500 A2	500	1.25	3000	3	625.340	6052959
DRL 600 A2	600	1.25	3000	3	743.240	6052975
DRL 100 A4	100	1.00	3000	6	105.070	6052980
DRL 150 A4	150	1.00	3000	6	144.400	6052982
DRL 200 A4	200	1.00	3000	3	183.570	6052981
DRL 300 A4	300	1.00	3000	3	262.240	6052983
DRL 400 A4	400	1.00	3000	3	341.240	6052984
DRL 500 A4	500	1.25	3000	3	624.900	6052985
DRL 600 A4	600	1.25	3000	3	743.240	6052986

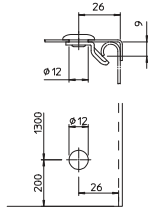
V2A Stainless steel, A2 V4A Stainless steel, A4

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.

Turn buckle



Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
DRL 311 FT	20	1.300	6065007

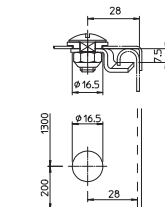
SI Steel

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.

Turn buckle



Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
DRLM 316 DD	10	2.800	6222366
DRLM 316 A2	10	2.800	6222358

SI Steel V2A Stainless steel, A2

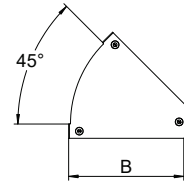
DD Strip galvanised zinc/aluminium, double dip

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 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
DFBM 45 100 A2	100	1.25	1	13.100	7138430
DFBM 45 200 A2	200	1.25	1	28.100	7138434
DFBM 45 300 A2	300	1.25	1	49.300	7138436
DFBM 45 400 A2	400	1.25	1	95.100	7138438

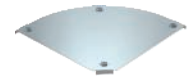
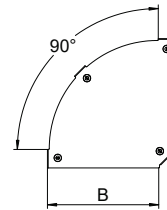


St Steel
 V2A Stainless steel, A2
FS Strip-galvanised
 DD Strip galvanised zinc/aluminium,double dip

The cover can be used with fittings of all side heights.
 Cover for 45° bend with pre-mounted turn-buckle.

Cover for 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
DFBM 90 100 A2	100	1.25	1	18.500	7138570
DFBM 90 150 A2	150	1.25	1	29.900	7138572
DFBM 90 200 A2	200	1.25	1	44.400	7138574
DFBM 90 300 A2	300	1.25	1	83.000	7138576
DFBM 90 400 A2	400	1.25	1	166.400	7138578
DFBM 90 500 A2	500	1.25	1	245.500	7138580
DFBM 90 600 A2	600	1.25	1	339.500	7138582
DFBM 90 100 A4	100	1.25	1	18.500	7138590
DFBM 90 150 A4	150	1.25	1	29.900	7138592
DFBM 90 200 A4	200	1.25	1	44.400	7138594
DFBM 90 300 A4	300	1.25	1	83.000	7138596
DFBM 90 400 A4	400	1.25	1	166.400	7138598
DFBM 90 500 A4	500	1.25	1	245.500	7138600



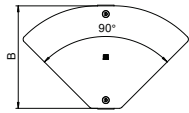
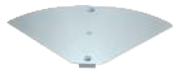
St Steel
 V2A Stainless steel, A2
 V4A Stainless steel, A4
FS Strip-galvanised
 DD Strip galvanised zinc/aluminium,double dip

The cover can be used with fittings of all side heights.
 Cover for 90° bend with premounted turn buckles.



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Cover for variable Magic bend



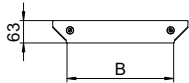
Type	Width mm	Plate thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
DFBMV 100 FS	100	1.00	1	14.200	6040760
DFBMV 150 FS	150	1.00	1	24.900	6040762
DFBMV 200 FS	200	1.00	1	38.700	6040764
DFBMV 300 FS	300	1.00	1	75.500	6040766
DFBMV 400 FS	400	1.25	1	155.500	6040768
DFBMV 500 FS	500	1.25	1	232.300	6040770
DFBMV 600 FS	600	1.25	1	324.600	6040772
DFBMV 100 DD	100	1.00	1	14.200	6040780
DFBMV 200 DD	200	1.00	1	38.700	6040784
DFBMV 300 DD	300	1.00	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
DFBMV 100 A2	100	1.00	1	16.800	6040800
DFBMV 150 A2	150	1.00	1	27.500	6040802
DFBMV 200 A2	200	1.00	1	41.300	6040804
DFBMV 300 A2	300	1.00	1	78.100	6040806
DFBMV 400 A2	400	1.25	1	158.100	6040808
DFBMV 500 A2	500	1.25	1	234.900	6040810
DFBMV 600 A2	600	1.25	1	327.200	6040812
DFBMV 100 A4	100	1.00	1	16.800	6040820
DFBMV 150 A4	150	1.00	1	27.500	6040822
DFBMV 200 A4	200	1.00	1	41.300	6040824
DFBMV 300 A4	300	1.00	1	78.100	6040826
DFBMV 400 A4	400	1.25	1	158.100	6040828
DFBMV 500 A4	500	1.25	1	234.900	6040830
DFBMV 600 A4	600	1.25	1	327.200	6040832

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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.

Cover for Magic add-on tee



Type	Dimen- sion B 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
DFAAM 100 A2	100	1.25	1	11.100	7138720
DFAAM 150 A2	150	1.25	1	13.500	7138722
DFAAM 200 A2	200	1.25	1	14.500	7138724
DFAAM 300 A2	300	1.25	1	20.900	7138726
DFAAM 400 A2	400	1.25	1	31.700	7138728
DFAAM 500 A2	500	1.25	1	37.900	7138730
DFAAM 600 A2	600	1.25	1	44.100	7138732
DFAAM 100 A4	100	1.25	1	11.100	7138740
DFAAM 150 A4	150	1.25	1	13.500	7138742
DFAAM 200 A4	200	1.25	1	14.500	7138744
DFAAM 300 A4	300	1.25	1	20.900	7138746
DFAAM 400 A4	400	1.25	1	31.700	7138748
DFAAM 500 A4	500	1.25	1	37.900	7138750
DFAAM 600 A4	600	1.25	1	44.100	7138752

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FS Strip-galvanised DD Strip galvanised zinc/aluminium,double dip

The cover can be used with fittings of all side heights.

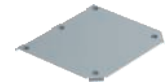
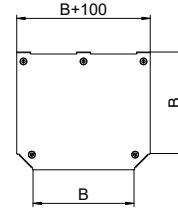
Cover for add-on tee with pre-mounted turn-buckles.

Cover for Magic tee

Type	Dimension B 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
DFTM 100 A2	100	1.25	1	31.000	7138860
DFTM 150 A2	150	1.25	1	40.300	7138862
DFTM 200 A2	200	1.25	1	59.700	7138864
DFTM 300 A2	300	1.25	1	110.600	7138866
DFTM 400 A2	400	1.25	1	220.300	7138868
DFTM 500 A2	500	1.25	1	322.700	7138870
DFTM 600 A2	600	1.25	1	444.600	7138872
DFTM 100 A4	100	1.25	1	31.000	7138880
DFTM 150 A4	150	1.25	1	40.300	7138882
DFTM 200 A4	200	1.25	1	59.700	7138884
DFTM 300 A4	300	1.25	1	110.600	7138886
DFTM 400 A4	400	1.25	1	220.300	7138888
DFTM 500 A4	500	1.25	1	322.700	7138890
DFTM 600 A4	600	1.25	1	444.600	7138892

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4
 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.

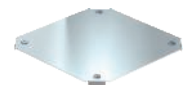
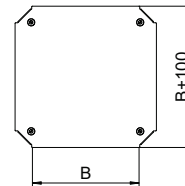


Cover for Magic cross-over

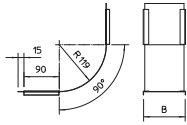
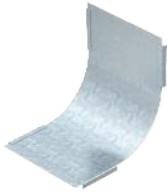
Type	Dimension B mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFKM 100 FS	100	1.25	1	36.300	7138930
DFKM 150 FS	150	1.25	1	53.700	7138932
DFKM 200 FS	200	1.25	1	75.000	7138934
DFKM 300 FS	300	1.25	1	129.300	7138936
DFKM 400 FS	400	1.25	1	246.900	7138938
DFKM 500 FS	500	1.25	1	353.700	7138940
DFKM 600 FS	600	1.25	1	480.100	7138942
DFKM 100 DD	100	1.25	1	36.300	7138970
DFKM 200 DD	200	1.25	1	75.000	7138974
DFKM 300 DD	300	1.25	1	123.100	7138976
DFKM 400 DD	400	1.25	1	246.900	7138978
DFKM 500 DD	500	1.25	1	353.700	7138980
DFKM 600 DD	600	1.25	1	480.100	7138982
DFKM 100 A2	100	1.25	1	31.000	7139020
DFKM 150 A2	150	1.25	1	48.500	7139022
DFKM 200 A2	200	1.25	1	69.900	7139024
DFKM 300 A2	300	1.25	1	124.500	7139026
DFKM 400 A2	400	1.25	1	242.900	7139028
DFKM 500 A2	500	1.25	1	350.500	7139030
DFKM 600 A2	600	1.25	1	477.600	7139032
DFKM 100 A4	100	1.25	1	31.000	7139040
DFKM 150 A4	150	1.25	1	48.500	7139042
DFKM 200 A4	200	1.25	1	69.900	7139044
DFKM 300 A4	300	1.25	1	124.500	7139046
DFKM 400 A4	400	1.25	1	242.900	7139048
DFKM 500 A4	500	1.25	1	350.500	7139050
DFKM 600 A4	600	1.25	1	477.600	7139052

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4
 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 90° vertical bend, rising



Type	Dimension B 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 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
DBV 100 S A2	100	0.75	1	34.000	7130905
DBV 150 S A2	150	0.75	1	50.000	7130906
DBV 200 S A2	200	0.75	1	39.000	7130907
DBV 300 S A2	300	0.75	1	49.000	7130909
DBV 400 S A2	400	0.75	1	68.000	7130911
DBV 500 S A2	500	0.75	1	86.000	7130913
DBV 600 S A2	600	0.75	1	105.000	7130915
DBV 100 S A4	100	0.75	1	21.000	7130920
DBV 200 S A4	200	0.75	1	39.000	7130922
DBV 300 S A4	300	0.75	1	49.000	7130924
DBV 400 S A4	400	0.75	1	68.000	7130926
DBV 500 S A4	500	0.75	1	86.000	7130928
DBV 600 S A4	600	0.75	1	105.000	7130930

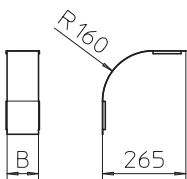
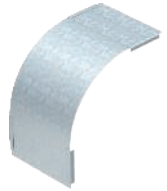
SI Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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 mm



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

SI Steel

FS Strip-galvanised

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.

Cover for 90° vertical bend, falling, side height 60 mm

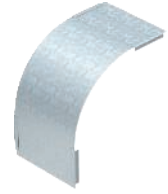
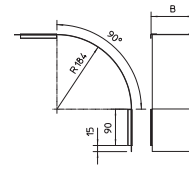
Type	Dimension B mm	Plate thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
DBV 60 100 F FS	100	0.75	1	25.000	7130852
DBV 60 150 F FS	150	0.75	1	37.000	7130856
DBV 60 200 F FS	200	0.75	1	49.000	7130860
DBV 60 300 F FS	300	0.75	1	73.000	7130864
DBV 60 400 F FS	400	0.75	1	96.000	7130868
DBV 60 500 F FS	500	0.75	1	120.000	7130872
DBV 60 600 F FS	600	0.75	1	143.000	7130876
DBV 60 050 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
DBV 60 100 F A2	100	0.75	1	25.000	7130952
DBV 60 150 F A2	150	0.75	1	62.000	7130953
DBV 60 200 F A2	200	0.75	1	49.000	7130954
DBV 60 300 F A2	300	0.75	1	73.000	7130956
DBV 60 400 F A2	400	0.75	1	96.000	7130958
DBV 60 500 F A2	500	0.75	1	120.000	7130960
DBV 60 600 F A2	600	0.75	1	143.000	7130962
DBV 60 100 F A4	100	0.75	1	25.000	7130972
DBV 60 200 F A4	200	0.75	1	49.000	7130974
DBV 60 300 F A4	300	0.75	1	73.000	7130976
DBV 60 400 F A4	400	0.75	1	96.000	7130978
DBV 60 500 F A4	500	0.75	1	120.000	7130980
DBV 60 600 F A4	600	0.75	1	143.000	7130982

Sl Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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 mm

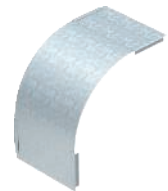
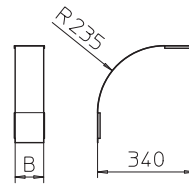
Type	Dimension B mm	Plate thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
DBV 85 100 F FS	100	0.75	1	27.100	7130990
DBV 85 200 F FS	200	0.75	1	52.500	7130994
DBV 85 300 F FS	300	0.75	1	77.800	7130998
DBV 85 400 F FS	400	0.75	1	103.200	7131002
DBV 85 500 F FS	500	0.75	1	128.500	7131006
DBV 85 600 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	129.700	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

Sl Steel

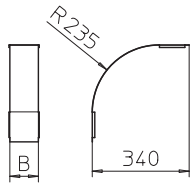
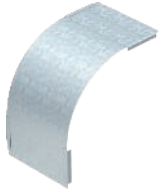
FS Strip-galvanised DD Strip galvanised zinc/aluminium,double dip

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.



Cover for 90° vertical bend, falling, side height 110 mm



Type	Dimension B 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

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.





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Cable tray systems

	Side height 35 mm	192
	Side height 60 mm	198
	Side height 85 mm	219
	Side height 110 mm	227
	System accessories 35, 60, 85, 110	236
	Side height 200 mm	248

Cable tray RKS



Type	Plate		Pack.	Weight	Item No.
	Width	thickness			
	mm	mm	m	kg/100 m	
RKS 305 FS	50	0.75	3	78.000	6047408

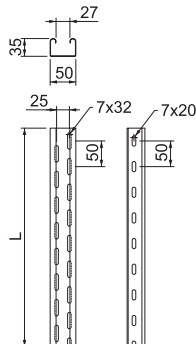
St Steel

FS Strip-galvanised

Including RV 35 straight connector set.

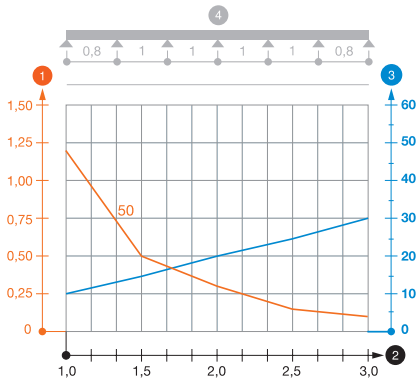
RKS 35 = Rational cable tray system with 35 mm side height.

Dimensions



Type	Dimension L	Width	Useful cross-section
RKS 305 FS	3000	50	16

Load



Type	1.0 m	1.5 m	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
RKS 305 FS	1.2	0.5	0.3	0.15	0.1

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

Cable tray MKS

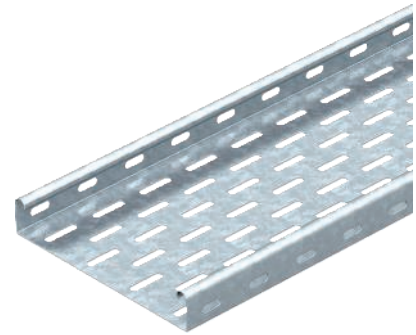
Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKS 305 FS	50	1.00	3	104.000	6053513
MKS 310 FS	100	1.00	3	144.134	6053548
MKS 315 FS	150	1.00	3	177.067	6053572
MKS 320 FS	200	1.00	3	210.034	6053599
MKS 330 FS	300	1.00	3	276.000	6053637
MKS 305 FT	50	1.00	3	113.340	6053041
MKS 310 FT	100	1.00	3	153.000	6053106
MKS 315 FT	150	1.00	3	189.000	6053165
MKS 320 FT	200	1.00	3	225.834	6053203
MKS 330 FT	300	1.00	3	295.000	6053300

St Steel

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.



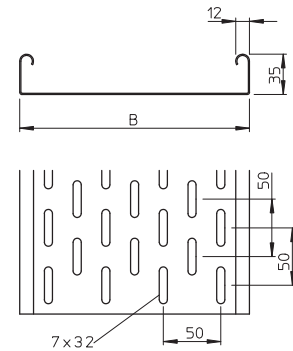
Type	Length mm	Dimension B mm	Useful cross-section cm ²
MKS 305 FS	3000	50	16
MKS 310 FS	3000	100	33
MKS 315 FS	3000	150	50.5
MKS 320 FS	3000	200	68
MKS 330 FS	3000	300	103

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
MKS 305 FS	1.9	0.85	0.55	0.3	0.15
MKS 310 FS	1.2	0.75	0.55	0.3	0.2
MKS 315 FS	1.2	0.75	0.55	0.3	0.2
MKS 320 FS	1.1	0.5	0.3	0.3	0.2
MKS 330 FS	1.1	0.5	0.3	0.3	0.2

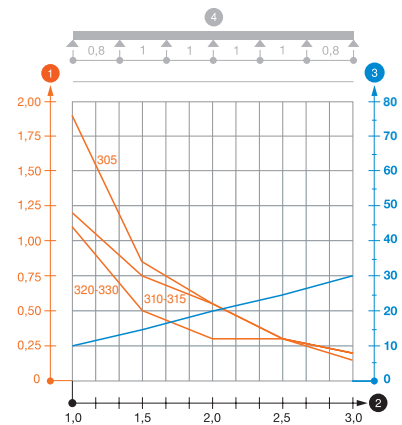
Load diagram, cable tray, type MKS 35

- 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

Dimensions



Load

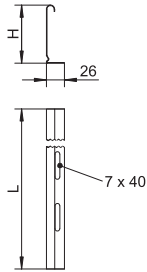


Barrier strip



Type	Dimension H mm	Plate thickness mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 30 FS	30	0.75	3000	3	38.000	6062050
TSG 30 DD	30	0.75	3000	3	38.000	6062314
TSG 30 A4	30	0.75	3000	3	38.670	6062054

St Steel **V4A** Stainless steel, A4
FS Strip-galvanised **DD** Strip galvanised zinc/aluminium, double dip
 Barrier strip for separation of cables of different voltages or functions.



Separating retainer connector

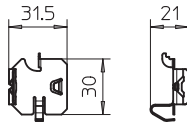


Type	Pack. pcs	Weight kg/100 pcs	Item No.
TSGV A2	10	0.923	6067970

V2A Stainless steel, A2

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Hold-down clamp for separating retainer fastening in RKSM

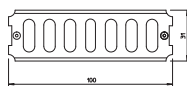
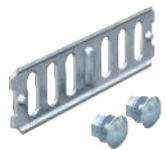


Type	Pack. pcs	Weight kg/100 pcs	Item No.
KS KR A2	30	0.537	6062280

V2A Stainless steel, A2

Clamping piece for screwless fastening of separating retainer in the cable tray types RKSM, MKS and SKS.

Straight connector

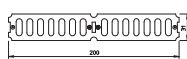
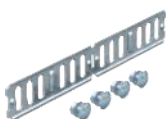


Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
RLVK 35 FS	35	10	5.100	6067085
RLVK 35 FT	35	10	5.100	6067301

St Steel
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.
RWVL 35 FS	35	10	10.500	6067107
RWVL 35 FT	35	10	10.500	6067328

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 35 mm.

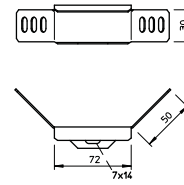
Straight and angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
WKV 35 FS	35	5	6.800	6043038

St Steel
FS Strip-galvanised

Including appropriate fastening material.

Angle connector for cable trays with a side height of 35 mm.



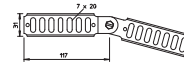
Adjustable connector

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
FS Strip-galvanised **FT** Hot-dip galvanised

Including appropriate fastening material.

Adjustable connector for cable trays with a side height of 35 mm.



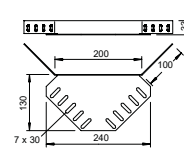
Corner connector

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	24.800	6069304

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 35 mm.



Reducer / stop-end

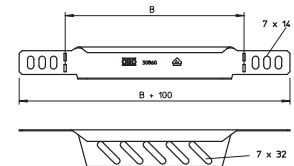
Type	Side height mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs	Item No.
RWEB 305 FS	35	50	1	4.200	7108052
RWEB 310 FS	35	100	1	7.400	7108109
RWEB 320 FS	35	200	1	12.300	7108206
RWEB 330 FS	35	300	1	18.300	7108311

St Steel
FS Strip-galvanised

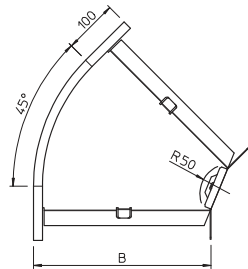
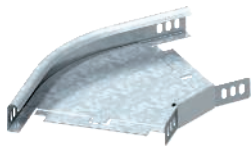
From a width of 150 mm, a perforated bottom flange is available.

Including appropriate fastening material.

Reducer/stop-end for cable trays with side height 35 mm.



45° bend



Type	Width mm	Weight		Item No.
		Pack. pcs.	kg/100 pcs.	
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

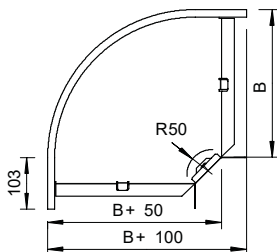
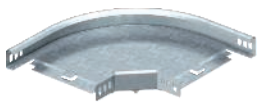
FS Strip-galvanised FT Hot-dip galvanised

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.

90° bend



Type	Width mm	Weight		Item No.
		Pack. pcs.	kg/100 pcs.	
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

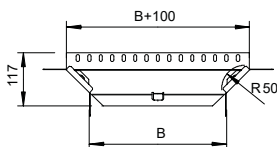
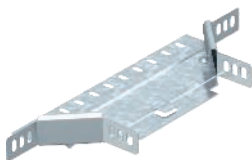
FS Strip-galvanised FT Hot-dip galvanised

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	Dimen- sion B mm	Weight		Item No.
		Pack. pcs.	kg/100 pcs.	
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

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

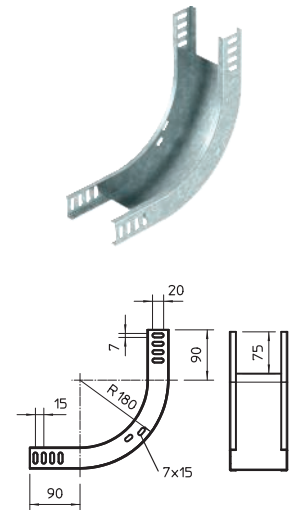
Type	Width mm	Pack. pcs	Weight		Item No.
			kg/100	pcs.	
RBV 305 S FS	50	1	45.000	7007170	
RBV 310 S FS	100	1	56.000	7007174	
RBV 315 S FS	150	1	66.900	7007178	
RBV 320 S FS	200	1	77.900	7007182	
RBV 330 S FS	300	1	199.700	7007186	
RBV 305 S FT	50	1	45.000	7007172	
RBV 310 S FT	100	1	56.000	7007176	
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

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.



90° vertical bend, falling

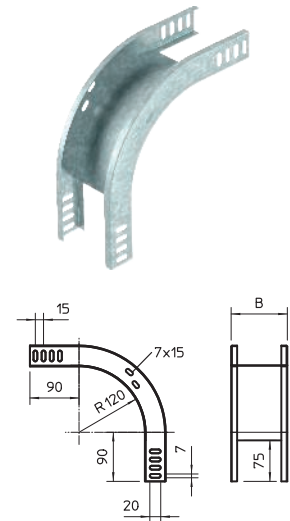
Type	Width mm	Pack. pcs	Weight		Item No.
			kg/100	pcs.	
RBV 305 F FS	50	1	42.900	7007200	
RBV 310 F FS	100	1	51.700	7007204	
RBV 315 F FS	150	1	60.500	7007208	
RBV 320 F FS	200	1	69.300	7007212	
RBV 330 F FS	300	1	86.900	7007216	
RBV 305 F FT	50	1	42.900	7007202	
RBV 310 F FT	100	1	51.700	7007206	
RBV 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

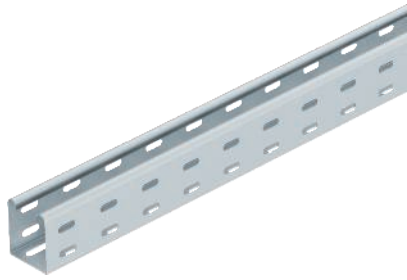
FS Strip-galvanised FT Hot-dip galvanised

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.



Cable tray RKS 60



Type	Plate		Pack.	Weight	Item No.
	Width mm	thickness mm			
RKS 605 FS	50	0.75	3	105.634	6055885
RKS 607 FS	75	0.75	3	118.940	6055893

SI Steel

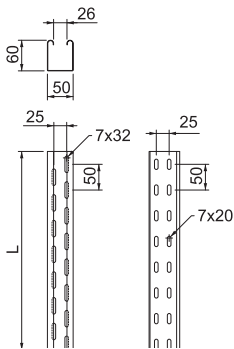
FS Strip-galvanised

Including RV 60 longitudinal connector set.

The cable tray is fixed to the bracket with bolts, type FRS M6 x 12.

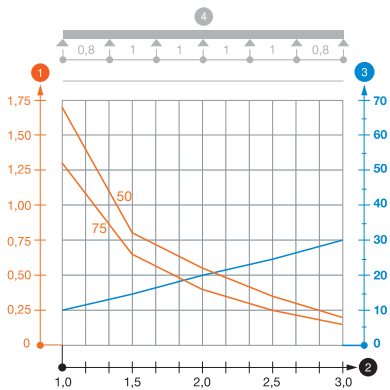
RKS 60 = Rational cable tray system with 60 mm side height (unbeaded base plate).

Dimensions



Type	Dimension L mm	Width mm	Useful cross- section cm ²
RKS 607 FS	3000	75	42

Load



Type	1.0 m	1.5 m	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
RKS 605 FS	1.7	0.8	0.55	0.35	0.2
RKS 607 FS	1.3	0.65	0.4	0.25	0.15

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

Cable tray MKS



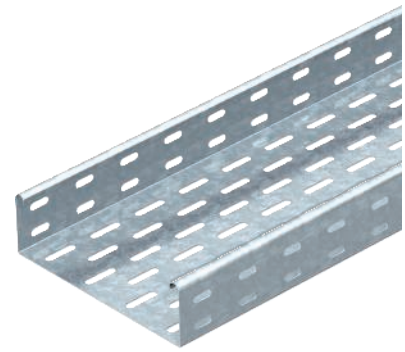
Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKS 605 FS	50	1.00	3	143.670	6055052
MKS 610 FS	100	1.00	3	173.000	6055109
MKS 615 FS	150	1.00	3	214.000	6055141
MKS 620 FS	200	1.00	3	246.700	6055206
MKS 630 FS	300	1.00	3	312.667	6055303
MKS 640 FS	400	1.00	3	380.000	6055400
MKS 650 FS	500	1.00	3	447.334	6055508
MKS 660 FS	600	1.00	3	498.000	6055524
MKS 605 FT	50	1.00	3	150.000	6055516
MKS 610 FT	100	1.00	3	190.100	6055532
MKS 615 FT	150	1.00	3	225.667	6055559
MKS 620 FT	200	1.00	3	261.000	6055575
MKS 630 FT	300	1.00	3	332.334	6055613
MKS 640 FT	400	1.00	3	403.334	6055664
MKS 650 FT	500	1.00	3	474.667	6055699
MKS 660 FT	600	1.00	3	545.670	6055710

St Steel

FS Strip-galvanised FT Hot-dip galvanised

Tested for installation above suspended fire protection ceilings (tray widths 100 - 400 mm, fire load 30 minutes, mounting work and parameters according to fire protection reports)

MKS 60 = medium-duty cable tray system with a side height of 60 mm. FS version includes RV 60 straight connector set.



Type	Length mm	Dimension B mm	Useful cross-section cm ²
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

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

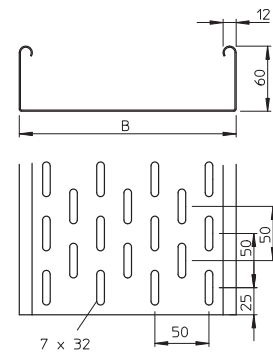
3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

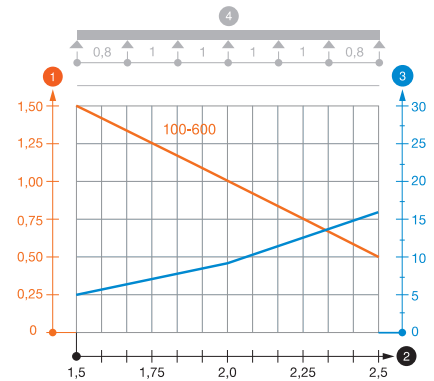
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Dimensions



Load



Cable tray MKS



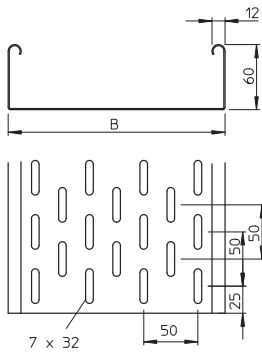
Type	Plate		Pack. m	Weight kg/100 m	Item No.
	Width mm	thickness mm			
MKS 610 A2	100	1.00	3	174.334	6056016
MKS 620 A2	200	1.00	3	239.000	6056024
MKS 630 A2	300	1.00	3	304.667	6056040
MKS 640 A2	400	1.00	3	370.000	6056059
MKS 650 A2	500	1.00	3	435.000	6056075
MKS 660 A2	600	1.00	3	500.000	6056083

V2A Stainless steel, A2

Connecting parts should be ordered in the appropriate quantity.

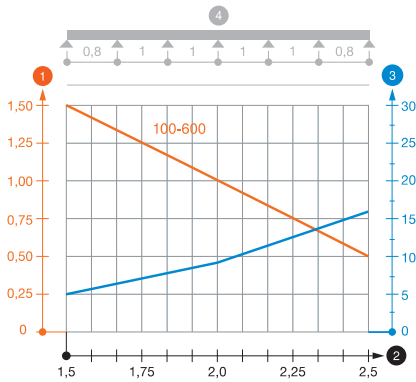
MKS 60 = Medium-duty cable tray system with a side height of 60 mm.

Dimensions



Type	Length mm	Dimen- sion B mm	Useful cross- section cm ²
MKS 620 A2	3000	200	118
MKS 630 A2	3000	300	178
MKS 640 A2	3000	400	238
MKS 650 A2	3000	500	298
MKS 660 A2	3000	600	358

Load



Type	1.5 m	2.0 m	2.5 m
	kN/m	kN/m	kN/m
MKS 610 A2	1.5	1	0.5
MKS 620 A2	1.5	1	0.5
MKS 630 A2	1.5	1	0.5
MKS 640 A2	1.5	1	0.5
MKS 650 A2	1.5	1	0.5
MKS 660 A2	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 SKS



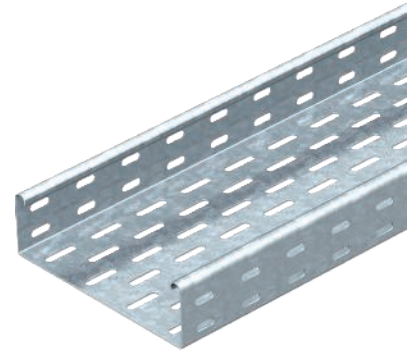
Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
SKS 610 FS	100	1.50	3	239.400	6056105
SKS 615 FS	150	1.50	3	316.670	6056156
SKS 620 FS	200	1.50	3	364.000	6056202
SKS 630 FS	300	1.50	3	463.670	6056296
SKS 640 FS	400	1.50	3	564.340	6056407
SKS 650 FS	500	1.50	3	663.340	6056504
SKS 660 FS	600	1.50	3	762.340	6056601
SKS 605 FT	50	1.50	3	207.334	6056632
SKS 610 FT	100	1.50	3	277.000	6056636
SKS 615 FT	150	1.50	3	328.700	6056644
SKS 620 FT	200	1.50	3	380.000	6056652
SKS 630 FT	300	1.50	3	485.670	6056679
SKS 640 FT	400	1.50	3	590.340	6056695
SKS 650 FT	500	1.50	3	694.670	6056717
SKS 660 FT	600	1.50	3	799.000	6056733

St. Steel

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.



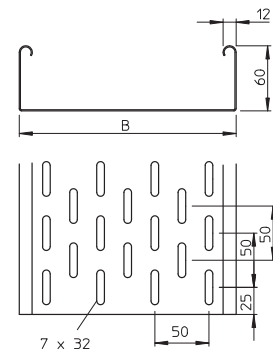
Type	Length mm	Dimension B mm	Useful cross-section cm ²
SKS 605 FT	3000	50	28
SKS 610 FS	3000	100	58
SKS 615 FS	3000	150	88
SKS 620 FS	3000	200	118
SKS 630 FS	3000	300	178
SKS 640 FS	3000	400	238
SKS 650 FS	3000	500	298
SKS 660 FS	3000	600	358

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

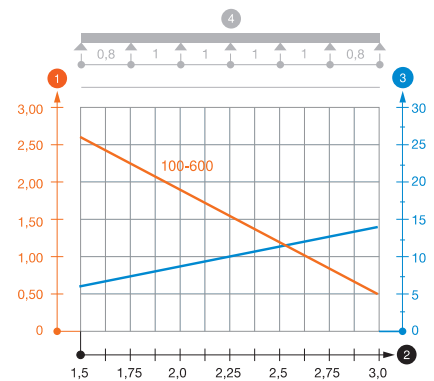
Load diagram, cable tray, type SKS 60

- 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

Dimensions



Load



Cable tray SKS

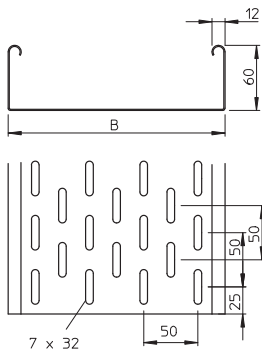


Type	Plate		Pack. m	Weight kg/100 m	Item No.
	Width mm	thickness mm			
SKS 610 A2	100	1.50	3	260.000	6056735
SKS 620 A2	200	1.50	3	356.670	6056737
SKS 630 A2	300	1.50	3	455.340	6056739
SKS 640 A2	400	1.50	3	553.670	6056742
SKS 650 A2	500	1.50	3	651.340	6056744
SKS 660 A2	600	1.50	3	749.340	6056746
SKS 610 A4	100	1.50	3	260.000	6056750
SKS 620 A4	200	1.50	3	356.670	6056755
SKS 630 A4	300	1.50	3	455.340	6056757
SKS 640 A4	400	1.50	3	553.670	6056759
SKS 650 A4	500	1.50	3	651.340	6056761
SKS 660 A4	600	1.50	3	749.340	6056763

V2A Stainless steel, A2 V4A Stainless steel, A4

Connecting parts should be ordered in the appropriate quantity.
SKS 60 = Heavy-duty cable tray system with 60 mm side height.

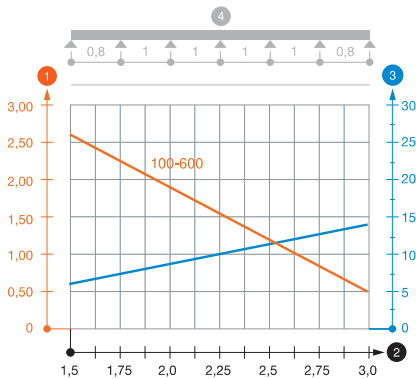
Dimensions



Useful
Dimen-
sion B
cross-
section
cm²

Type	Length mm	Dimension B mm	Useful cross-section cm ²
SKS 610 A2	3000	100	58
SKS 620 A2	3000	200	118
SKS 630 A2	3000	300	178
SKS 640 A2	3000	400	238
SKS 650 A2	3000	500	298
SKS 660 A2	3000	600	358

Load



1.5 m 2.0 m 2.5 m 3.0 m
kN/m kN/m kN/m kN/m

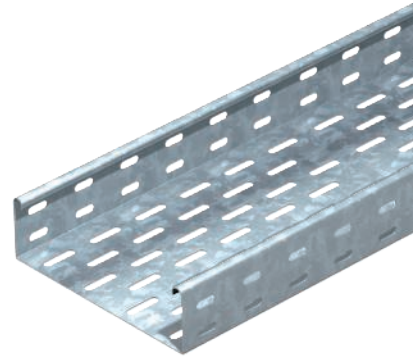
Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKS 610 A2	2.65	1.8	1.15	0.5
SKS 620 A2	2.65	1.8	1.15	0.5
SKS 630 A2	2.65	1.8	1.15	0.5
SKS 640 A2	2.65	1.8	1.15	0.5
SKS 650 A2	2.65	1.8	1.15	0.5
SKS 660 A2	2.65	1.8	1.15	0.5

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

Cable tray EKS

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
EKS 610 FS	100	2.00	3	341.340	6056148
EKS 620 FS	200	2.00	3	471.670	6056229
EKS 630 FS	300	2.00	3	602.000	6056326
EKS 640 FS	400	2.00	3	732.670	6056423
EKS 650 FS	500	2.00	3	863.000	6056520
EKS 660 FS	600	2.00	3	993.340	6056628
EKS 610 FT	100	2.00	3	358.340	6056776
EKS 620 FT	200	2.00	3	493.000	6056792
EKS 630 FT	300	2.00	3	629.340	6056806
EKS 640 FT	400	2.00	3	765.670	6056970
EKS 645 FT	450	2.00	3	834.000	6056978
EKS 650 FT	500	2.00	3	902.000	6056989
EKS 660 FT	600	2.00	3	1,038.340	6056997
EKS 675 FT	750	2.00	3	1,147.340	6056996
EKS 690 FT	900	2.00	3	1,452.670	6056998



St Steel

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.

Type	Length mm	Dimension B mm	Useful cross-section cm ²
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 645 FT	3000	450	268
EKS 650 FS	3000	500	298
EKS 660 FS	3000	600	358
EKS 675 FT	3000	750	445
EKS 690 FT	3000	900	535

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

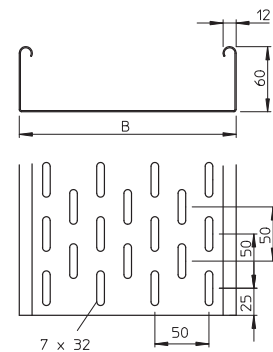
3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

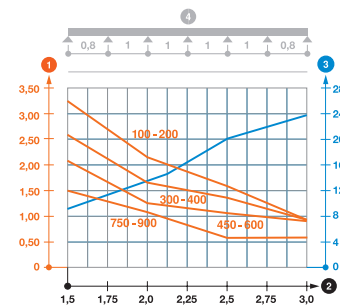
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

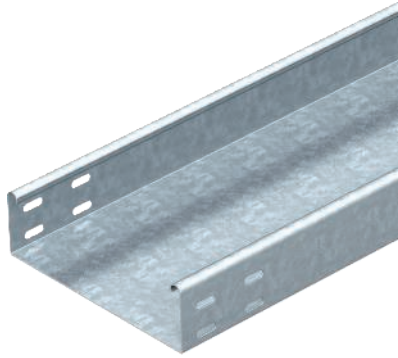
Dimensions



Load



Cable tray MKSU



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKSU 610 FS	100	1.00	3	189.000	6063160
MKSU 615 FS	150	1.00	3	229.300	6063179
MKSU 620 FS	200	1.00	3	266.700	6063187
MKSU 630 FS	300	1.00	3	347.000	6063209
MKSU 640 FS	400	1.00	3	426.000	6063225
MKSU 610 FT	100	1.00	3	201.000	6064302
MKSU 615 FT	150	1.00	3	250.000	6064319
MKSU 620 FT	200	1.00	3	290.000	6064345
MKSU 630 FT	300	1.00	3	378.000	6064396
MKSU 640 FT	400	1.00	3	464.000	6064426

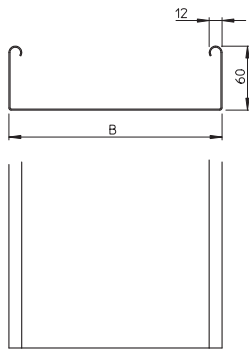
SI Steel

FS Strip-galvanised FT Hot-dip galvanised

The cable tray has connector perforations on both sides.

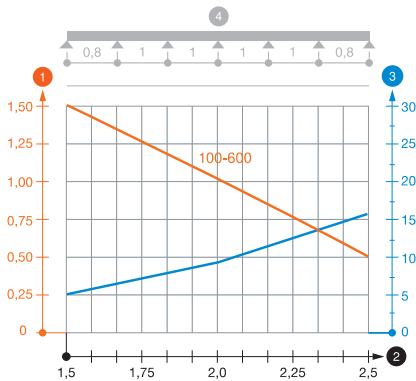
MKSU 60 = medium-duty cable tray system, unperforated, with a side height of 60 mm. Straight connectors should be ordered in the appropriate quantity.

Dimensions



Type	Length mm	Width mm	Useful cross- section cm ²
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

Cable tray MKSU

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKSU 610 A2	100	0.80	3	154.000	6063772
MKSU 620 A2	200	0.80	3	216.000	6063780
MKSU 630 A2	300	0.80	3	280.000	6063799
MKSU 640 A2	400	1.00	3	428.340	6063845
MKSU 650 A2	500	1.00	3	506.000	6063861
MKSU 660 A2	600	1.00	3	584.000	6063888

V2A Stainless steel, A2

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.



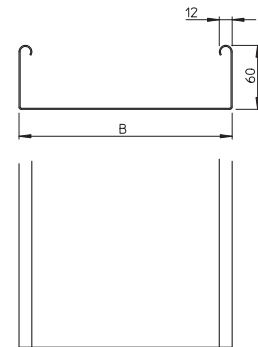
Type	Length mm	Dimen- sion B mm	Useful cross- section cm ²
MKSU 610 A2	3000	100	58
MKSU 620 A2	3000	200	118
MKSU 630 A2	3000	300	178
MKSU 640 A2	3000	400	238
MKSU 650 A2	3000	500	298
MKSU 660 A2	3000	600	358

Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSU 610 A2	1.5	1	0.5
MKSU 620 A2	1.5	1	0.5
MKSU 630 A2	1.5	1	0.5
MKSU 640 A2	1.5	1	0.5
MKSU 650 A2	1.5	1	0.5
MKSU 660 A2	1.5	1	0.5

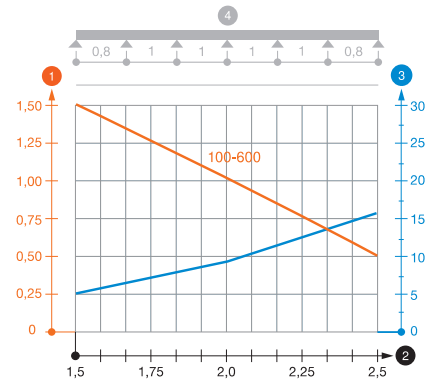
Load diagram, cable tray MKSU 60 VA

- 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

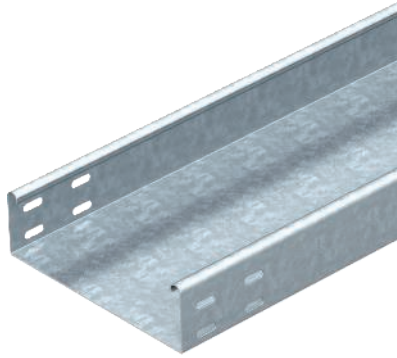
Dimensions



Load



Cable tray SKSU



Type	Plate		Pack.	Weight	Item No.
	Width mm	thickness mm			
SKSU 610 FS	100	1.50	3	286.000	6063234
SKSU 620 FS	200	1.50	3	399.670	6063236
SKSU 630 FS	300	1.50	3	516.000	6063238
SKSU 640 FS	400	1.50	3	639.000	6063950
SKSU 650 FS	500	1.50	3	756.670	6063241
SKSU 660 FS	600	1.50	3	877.000	6063276
SKSU 610 FT	100	1.50	3	302.670	6064307
SKSU 620 FT	200	1.50	3	427.340	6064353
SKSU 630 FT	300	1.50	3	554.670	6064409
SKSU 640 FT	400	1.50	3	687.000	6064435
SKSU 650 FT	500	1.50	3	802.000	6064515
SKSU 660 FT	600	1.50	3	929.670	6064523

SI Steel

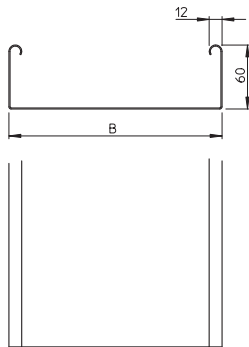
FS Strip-galvanised FT Hot-dip galvanised

The cable tray has connector perforations on both sides.

Straight connectors should be ordered separately and in the appropriate quantity.

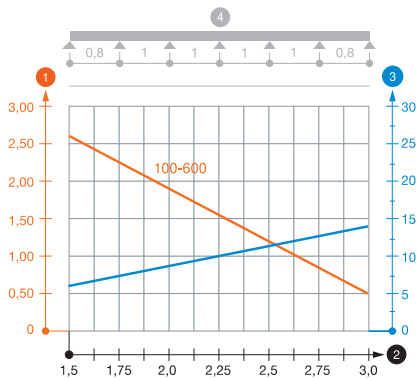
SKSU 60 = heavy-duty cable tray system, unperforated, with 60 mm side height.

Dimensions



Type	Length mm	Dimen- sion B mm	Useful cross- section cm ²
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	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/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

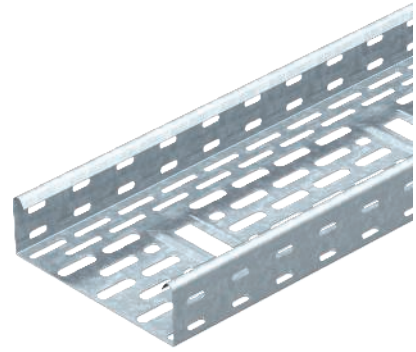
Load diagram, cable tray, type SKSU 60

- 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

Cable tray DKS



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
DKS 610 FS	100	1.00	3	161.000	6085016
DKS 620 FS	200	1.00	3	217.670	6085032
DKS 630 FS	300	1.00	3	270.670	6085059
DKS 640 FS	400	1.50	3	493.340	6085202
DKS 650 FS	500	1.50	3	572.340	6085229
DKS 660 FS	600	1.50	3	651.340	6085245
DKS 610 FT	100	1.00	3	175.670	6085326
DKS 620 FT	200	1.00	3	237.340	6085342
DKS 630 FT	300	1.00	3	295.000	6085369
DKS 640 FT	400	1.50	3	523.000	6085512
DKS 650 FT	500	1.50	3	607.000	6085539
DKS 660 FT	600	1.50	3	690.670	6085555



SI Steel

FS Strip-galvanised FT Hot-dip galvanised

Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.

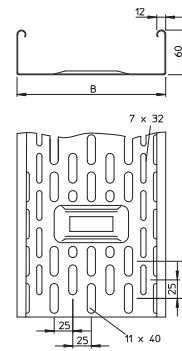
Bottom penetration from width 200 mm.

Connecting parts should be ordered in the appropriate quantity.

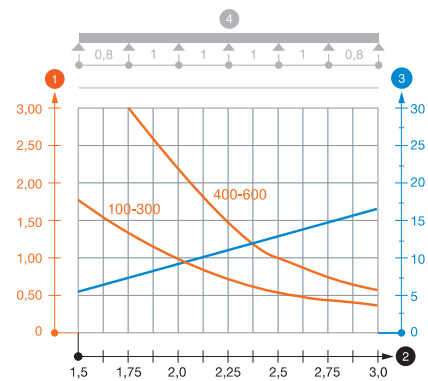
DKS 60 = perforated cable tray system with 60 mm side height.

Type	Length mm	Width mm	Useful cross- section cm ²
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

Dimensions



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

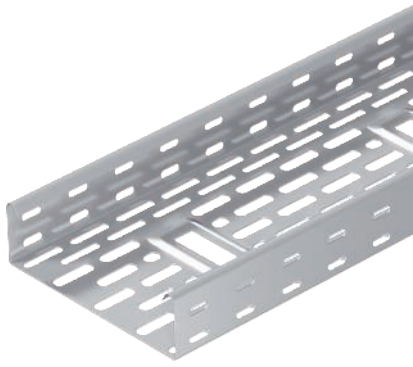
Load diagram, cable tray, type DKS 60

- 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



Side height 60

Cable tray DKS



Type	Plate		Pack. m	Weight kg/100 m	Item No.
	Width mm	thickness mm			
DKS 610 A4	100	0.80	3	129.000	6085668
DKS 620 A4	200	0.80	3	174.340	6085672
DKS 630 A4	300	1.00	3	216.670	6085673
DKS 640 A4	400	1.00	3	329.340	6085675

V4A Stainless steel, A4

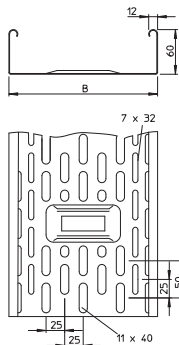
Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.

Bottom penetration from width 200 mm.

Connecting parts should be ordered in the appropriate quantity.

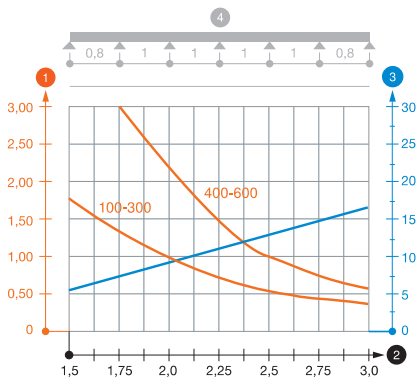
DKS 60 = perforated cable tray system with 60 mm side height.

Dimensions



Type	Length mm	Dimen- sion B mm	Useful cross- section cm ²
DKS 620 A4	3000	200	118
DKS 630 A4	3000	300	178
DKS 640 A4	3000	400	238

Load



Type	1.5 m	2.0 m	2.5 m
	kN/m	kN/m	kN/m
DKS 610 A4	1	0.5	0.35
DKS 620 A4	1	0.5	0.5
DKS 630 A4	1	0.5	0.35
DKS 640 A4	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

Separating retainer

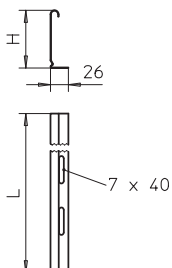


Type	Dimen- sion H mm	Plate thickness mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
TSG 45 DD	45	0.75	3000	3	46.800	6062321
TSG 45 A2	45	0.75	3000	3	47.000	6062025
TSG 45 A4	45	0.75	3000	3	48.000	6062028

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FS Strip-galvanised DD Strip galvanised zinc/aluminium, double dip

Separating retainer for separation of cables of different voltages or functions.



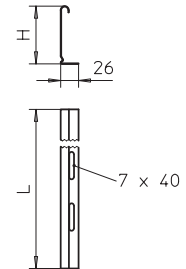
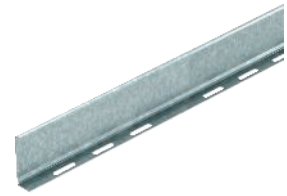
Separating retainer

Type	Dimension H mm	Plate thickness mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 60 FS	60	0.75	3000	3	55.700	6062068
TSG 60 DD	60	0.75	3000	3	55.700	6062327
TSG 60 A2	60	0.75	3000	3	55.000	6062084
TSG 60 A4	60	0.75	3000	3	56.670	6062086

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4

FS Strip-galvanised **DD** Strip galvanised zinc/aluminium, double dip

Separating retainer for separation of cables of different voltages or functions.

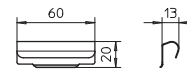


Separating retainer connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV A2	10	0.923	6067970

V2A Stainless steel, A2

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

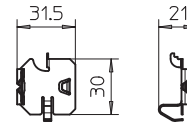


Hold-down clamp for separating retainer fastening in RKSM

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KR A2	30	0.537	6062280

V2A Stainless steel, A2

Clamping piece for screwless fastening of separating retainer in the cable tray types RKSM, MKS and SKS.



Clamping piece for barrier strip fastening in MKS/SKS

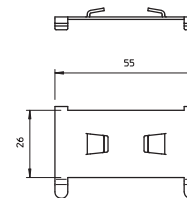
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS MKS SKS FS	100	1.200	6062300

St Steel

FS Strip-galvanised

Use in cable trays, types MKS, SKS, EKS.

Clamping piece for screwless fastening of barrier strips.

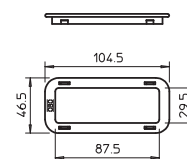


Cable protection ring

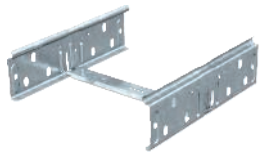
Type	Colour	for perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-DR 920 PE	Light grey	32 x 90	25	0.637	6087965

PE Polyethylene

Cable protection ring for side perforation in the side rails of the IKS cable tray.



Straight connector set



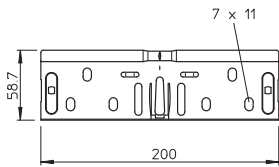
Type	Side height mm	Width mm	Pack. pcs	Weight		Item No.
				kg/100 pcs.		
RV 605 FS	60	50	10	18.100		6068146
RV 607 FS	60	75	10	18.800		6068150
RV 610 FS	60	100	10	19.400		6068154
RV 615 FS	60	150	10	20.700		6068162
RV 620 FS	60	200	10	20.900		6068170
RV 630 FS	60	300	10	24.500		6068189
RV 640 FS	60	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

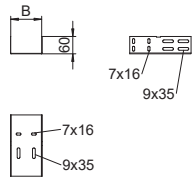
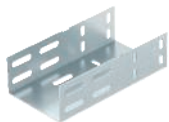
FS Strip-galvanised

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.



Connector for expansion compensation



Type	Side height mm	Width mm	Pack. pcs	Weight		Item No.
				kg/100 pcs.		
RDV 610 DD	60	100	2	56.300		6065974
RDV 620 DD	60	200	2	81.800		6065976
RDV 630 DD	60	300	2	104.300		6065978
RDV 640 DD	60	400	2	129.600		6065980
RDV 650 DD	60	500	2	152.200		6065982
RDV 660 DD	60	600	2	177.600		6065984

St Steel

DD Strip galvanised zinc/aluminium, double dip

Straight connector for compensation of linear thermal expansion.

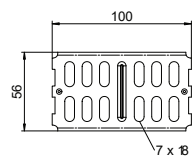
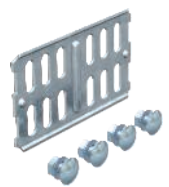
Installation

Positioning of expansion connectors

Metal temperature difference	Maximum spacing between expansion connectors
10 °C	70 metres
25 °C	47 metres
40 °C	35 metres
50 °C	28 metres
65 °C	23 metres
80 °C	20 metres

Further information can be found in our mounting instruction

Straight connector



Type	Side height mm	Pack. pcs	Weight		Item No.
			kg/100 pcs.		
RLVK 60 FS	60	10	9.976		6067093
RLVK 60 FT	60	10	10.300		6067603
RLVK 60 A2	60	10	9.780		6067654
RLVK 60 A4	60	10	9.780		6067675

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4

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.

Angle connector

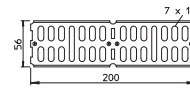
Type	Side height mm	Pack. pcs	Weight		Item No.
			kg/100	pcs.	
RWVL 60 FS	60	10	16.400	6067115	
RWVL 60 FT	60	10	17.400	6067611	
RWVL 60 A2	60	10	16.200	6067662	
RWVL 60 A4	60	10	16.200	6067664	

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4

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

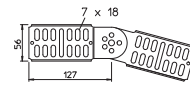
Type	Side height mm	Pack. pcs	Weight		Item No.
			kg/100	pcs.	
RGV 60 FS	60	10	25.100	7082010	
RGV 60 FT	60	10	26.100	7082223	
RGV 60 A2	60	10	25.100	7082258	
RGV 60 A4	60	10	25.100	7082265	

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4

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		Item No.
			kg/100	pcs.	
RLVKV 60 FS	60	10	4.550	6067101	

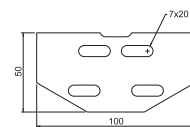
St Steel

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.



Straight and angle connector

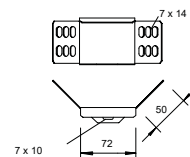
Type	Side height mm	Pack. pcs	Weight		Item No.
			kg/100	pcs.	
WKV 60 FS	60	5	14.700	6043062	
WKV 60 FT	60	5	15.800	6042910	

St Steel

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

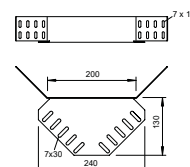
Type	Side height mm	Pack. pcs	Weight		Item No.
			kg/100	pcs.	
REV 60 FS	60	10	32.000	6067972	
REV 60 DD	60	10	32.000	6069410	
REV 60 A2	60	5	32.000	6068022	
REV 60 A4	60	5	32.000	6068054	

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4

FS Strip-galvanised **DD** Strip galvanised zinc/aluminium, double dip

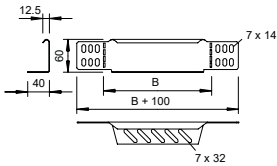
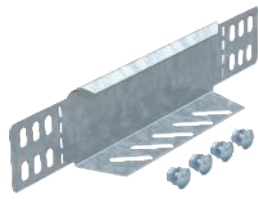
Fastening materials should be ordered separately.

Corner connector for cable trays with side height 60 mm.



Side height 60

Reducer / stop-end



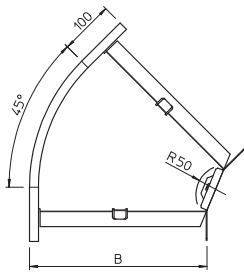
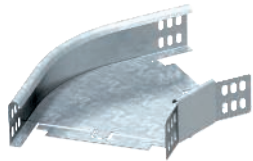
Type	Side height mm	Dimension B mm	Pack. pcs	Weight		Item No.
				kg/100 pcs.		
RWEB 610 FS	60	100	1	8.800		7109105
RWEB 615 FS	60	150	1	13.600		7109156
RWEB 620 FS	60	200	1	17.600		7109202
RWEB 630 FS	60	300	1	25.600		7109296
RWEB 640 FS	60	400	1	33.500		7109407
RWEB 650 FS	60	500	1	41.500		7109504
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
RWEB 610 A2	60	100	1	9.000		7109814
RWEB 620 A2	60	200	1	18.000		7109830
RWEB 630 A2	60	300	1	26.000		7109857
RWEB 640 A2	60	400	1	34.000		7109873
RWEB 650 A2	60	500	1	42.000		7109903
RWEB 660 A2	60	600	1	49.000		7109938
RWEB 615 A2	60	150	1	13.400		7109816

St Steel V2A Stainless steel, A2
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.

45° bend



Type	Dimension B mm	Pack. pcs	Weight		Item No.
			kg/100 pcs.		
RB 45 610 FS	100	1	57.600		6043763
RB 45 615 FS	150	1	75.000		6043755
RB 45 620 FS	200	1	80.800		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	62.000		7066112
RB 45 615 FT	150	1	80.000		7066158
RB 45 620 FT	200	1	87.400		7066228
RB 45 630 FT	300	1	110.000		7066317
RB45 610 A2	100	1	57.700		7133107
RB45 620 A2	200	1	80.900		7133120
RB45 630 A2	300	1	100.000		7133142
RB45 610 A4	100	1	57.700		7133261
RB45 620 A4	200	1	80.900		7133263
RB45 630 A4	300	1	100.000		7133265

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4
FS Strip-galvanised GB Stained 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.

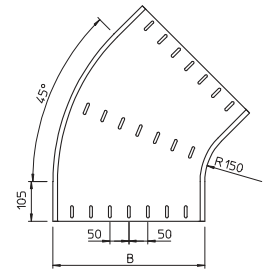
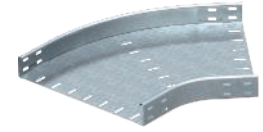
45° bend

Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 45 640 FS	400	1	301.000	7000383
RB 45 650 FS	500	1	385.900	7000405
RB 45 660 FS	600	1	480.400	7000421
RB 45 640 FT	400	1	301.000	7066406
RB 45 650 FT	500	1	412.800	7066503
RB 45 660 FT	600	1	515.600	7066600
RBU 45 640 A2	400	1	300.700	7133235
RBU 45 650 A2	500	1	385.900	7133243
RBU 45 660 A2	600	1	480.400	7133251
RBU 45 640 A4	400	1	300.700	7133271
RBU 45 650 A4	500	1	385.900	7133273
RBU 45 660 A4	600	1	480.400	7133275

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FS Strip-galvanised GB Stained FT Hot-dip galvanised

Fastening materials should be ordered separately.



90° bend

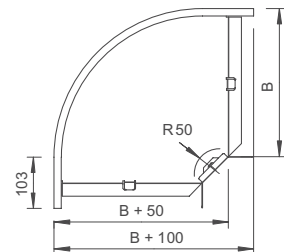
Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 90 610 FS	100	1	71.900	6043216
RB 90 615 FS	150	1	86.000	6043208
RB 90 620 FS	200	1	110.300	6043224
RB 90 630 FS	300	1	167.400	6043232
RB 90 605 FT	50	1	98.000	7125098
RB 90 610 FT	100	1	77.600	7125100
RB 90 615 FT	150	1	93.000	7125189
RB 90 620 FT	200	1	119.600	7125220
RB 90 630 FT	300	1	181.200	7125305
RB90 610 A2	100	1	125.000	7134122
RB90 620 A2	200	1	110.400	7134130
RB90 630 A2	300	1	166.600	7134138
RB90 610 A4	100	1	125.000	7134286
RB90 620 A4	200	1	111.900	7134288
RB90 630 A4	300	1	166.600	7134290

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FS Strip-galvanised GB Stained FT Hot-dip galvanised

The fitting is shipped in an unmounted state.

Including appropriate fastening material.



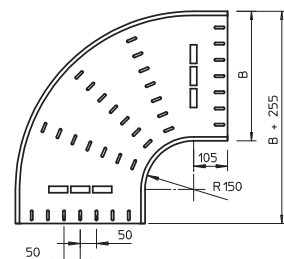
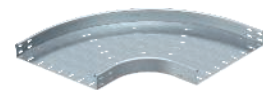
90° bend

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
RBU 90 640 A2	400	1	465.000	7134231
RBU 90 650 A2	500	1	610.000	7134258
RBU 90 660 A2	600	1	770.000	7134266
RBU 90 640 A4	400	1	465.000	7134292
RBU 90 650 A4	500	1	610.000	7134294
RBU 90 660 A4	600	1	770.000	7134296

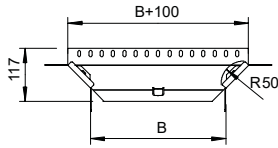
St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FS Strip-galvanised GB Stained 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



Type	Dimension B mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
RAA 610 FS	100	1	43.000	6040403
RAA 615 FS	150	1	40.100	6040411
RAA 620 FS	200	1	53.100	6040438
RAA 630 FS	300	1	61.900	6040446
RAA 605 FT	50	1	176.000	7121103
RAA 610 FT	100	1	60.000	7121109
RAA 615 FT	150	1	43.400	7121205
RAA 620 FT	200	1	57.500	7121210
RAA 630 FT	300	1	67.100	7121318
RAA 610 A2	100	1	43.000	7136120
RAA 620 A2	200	1	53.200	7136133
RAA 630 A2	300	1	61.500	7136141
RAA 610 A4	100	1	43.000	7136122
RAA 630 A4	300	1	61.500	7136143
RAA 620 A4	200	1	53.200	7136135

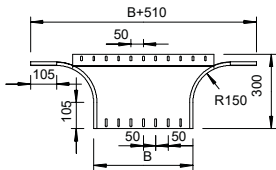
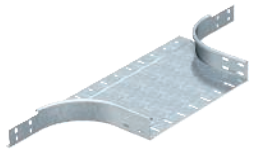
St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4

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.

Add-on tee



Type	Dimension B 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
RAA 640 A2	400	1	220.000	7136242
RAA 650 A2	500	1	255.000	7136250
RAA 660 A2	600	1	285.000	7136269
RAA 640 A4	400	1	220.000	7136244
RAA 650 A4	500	1	255.000	7136252
RAA 660 A4	600	1	285.000	7136271

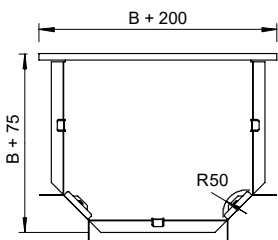
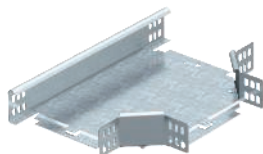
St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4

FS Strip-galvanised **GB** Stained **FT** Hot-dip galvanised

Fastening materials should be ordered separately.

Add-on tee for horizontal and vertical use.

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	198.200	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	215.900	7117306

St Steel

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

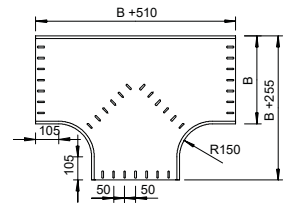
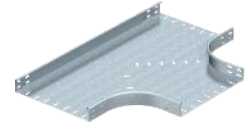
Sl Steel

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

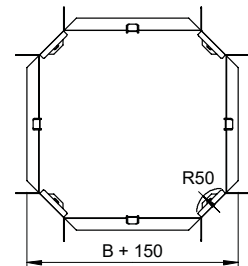
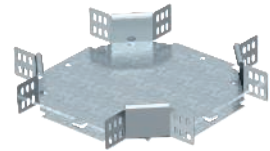
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RK 610 FS	100	1	87.000	6043615
RK 615 FS	150	1	108.000	6043607
RK 620 FS	200	1	110.900	6043623
RK 630 FS	300	1	197.800	6043631
RK 610 FT	100	1	93.000	7113110
RK 620 FT	200	1	144.000	7113218
RK 630 FT	300	1	216.000	7113315

Sl Steel

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.



Cross-over

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
RK 675 FT	750	1	2,225.000	7113611
RK 690 FT	900	1	2,844.000	7113613

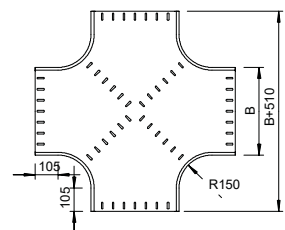
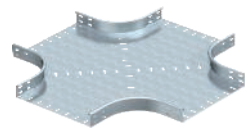
Sl Steel

FT Hot-dip galvanised

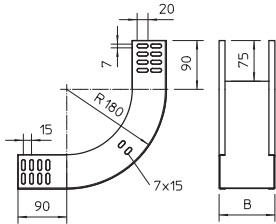
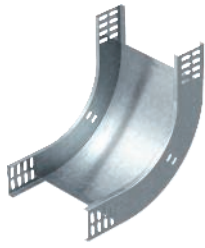
Fitting in round design. The interior radius of the fitting is 150 mm. All the sides are designed for the same cable tray width.

Fastening materials should be ordered separately.

Horizontal cross-over for all cable tray types of 60 mm side height.



90° vertical bend, rising



Type	Side height mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 605 S FS	60	50	1	50.000	7007001
RBV 610 S FS	60	100	1	66.000	7007005
RBV 615 S FS	60	150	1	78.000	7007009
RBV 620 S FS	60	200	1	95.000	7007013
RBV 630 S FS	60	300	1	124.000	7007017
RBV 640 S FS	60	400	1	153.000	7007021
RBV 650 S FS	60	500	1	181.000	7007025
RBV 660 S FS	60	600	1	210.000	7007029
RBV 605 S FT	60	50	1	54.000	7007002
RBV 610 S FT	60	100	1	71.000	7007006
RBV 615 S FT	60	150	1	84.000	7007010
RBV 620 S FT	60	200	1	103.000	7007014
RBV 630 S FT	60	300	1	134.000	7007018
RBV 640 S FT	60	400	1	163.000	7007022
RBV 650 S FT	60	500	1	190.000	7007026
RBV 660 S FT	60	600	1	221.000	7007030
RBV 610 S A2	60	100	1	66.000	7007105
RBV 615 S A2	60	150	1	84.000	7007107
RBV 620 S A2	60	200	1	109.000	7007109
RBV 630 S A2	60	300	1	145.000	7007113
RBV 640 S A2	60	400	1	181.000	7007117
RBV 650 S A2	60	500	1	216.000	7007119
RBV 660 S A2	60	600	1	252.000	7007121
RBV 610 S A4	60	100	1	73.000	7006720
RBV 620 S A4	60	200	1	105.000	7006724
RBV 630 S A4	60	300	1	145.000	7006728
RBV 640 S A4	60	400	1	181.000	7006732
RBV 650 S A4	60	500	1	216.000	7006736
RBV 660 S A4	60	600	1	252.000	7006740

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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

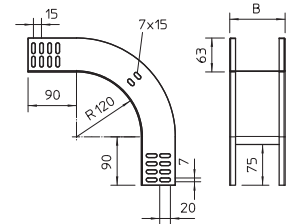
Type	Side height mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 605 F FS	60	50	1	49.000	7007051
RBV 610 F FS	60	100	1	61.000	7007055
RBV 615 F FS	60	150	1	73.000	7007059
RBV 620 F FS	60	200	1	84.000	7007063
RBV 630 F FS	60	300	1	107.000	7007067
RBV 640 F FS	60	400	1	130.000	7007071
RBV 650 F FS	60	500	1	153.000	7007075
RBV 660 F FS	60	600	1	176.000	7007079
RBV 605 F FT	60	50	1	53.000	7007052
RBV 610 F FT	60	100	1	66.000	7007056
RBV 615 F FT	60	150	1	80.000	7007060
RBV 620 F FT	60	200	1	92.000	7007064
RBV 630 F FT	60	300	1	116.000	7007068
RBV 640 F FT	60	400	1	142.000	7007072
RBV 650 F FT	60	500	1	167.000	7007076
RBV 660 F FT	60	600	1	192.000	7007080
RBV 610 F A2	60	100	1	61.000	7007155
RBV 615 F A2	60	150	1	73.000	7007156
RBV 620 F A2	60	200	1	84.000	7007157
RBV 630 F A2	60	300	1	107.000	7007159
RBV 640 F A2	60	400	1	130.000	7007161
RBV 650 F A2	60	500	1	153.000	7007163
RBV 660 F A2	60	600	1	176.000	7007165
RBV 610 F A4	60	100	1	61.000	7006750
RBV 620 F A4	60	200	1	84.000	7006754
RBV 630 F A4	60	300	1	107.000	7006758
RBV 640 F A4	60	400	1	130.000	7006762
RBV 650 F A4	60	500	1	153.000	7006766
RBV 660 F A4	60	600	1	176.000	7006770

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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.



90° articulated bend, vertical

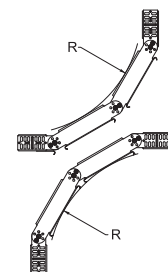
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGBV 610 FS	100	1	173.700	7006322
RGBV 615 FS	150	1	194.000	7006330
RGBV 620 FS	200	1	219.000	7006349
RGBV 630 FS	300	1	264.000	7006365
RGBV 640 FS	400	1	311.000	7006381
RGBV 650 FS	500	1	394.000	7006411
RGBV 660 FS	600	1	430.000	7006446
RGBV 610 FT	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
RGBV 610 A2	100	1	172.000	7138113
RGBV 620 A2	200	1	218.000	7138121
RGBV 630 A2	300	1	265.000	7138148
RGBV 640 A2	400	1	311.000	7138156
RGBV 650 A2	500	1	394.500	7138164
RGBV 660 A2	600	1	430.000	7138172

St Steel V2A Stainless steel, A2

FS Strip-galvanised FT Hot-dip galvanised

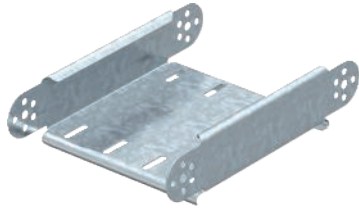
The bend is shipped in an unmounted state. No additional fastening materials are required.

90° adjustable vertical bend, for all cable tray types with a side height of 60 mm.



Side height 60

Adjustable vertical bend element



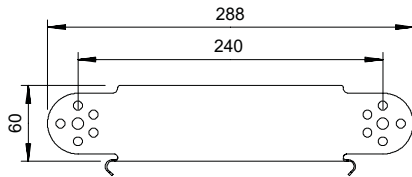
Type	Width mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
RGBEV 610 FS	100	1	48.100	7005326
RGBEV 615 FS	150	1	63.700	7005334
RGBEV 620 FS	200	1	63.600	7005342
RGBEV 630 FS	300	1	80.400	7005369
RGBEV 640 FS	400	1	114.000	7005385
RGBEV 650 FS	500	1	134.000	7005407
RGBEV 660 FS	600	1	155.900	7005423
RGBEV 610 FT	100	1	52.400	7075103
RGBEV 615 FT	150	1	60.300	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	167.200	7075596

SI Steel

FS Strip-galvanised FT Hot-dip galvanised

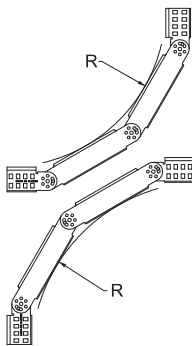
RGV 60 adjustable connectors should be ordered separately and in the appropriate quantity.

Dimensions



	Width mm	Plate	
		mm	thickness mm
RGBEV 610 FS	100	1.00	
RGBEV 615 FS	150	1.00	
RGBEV 620 FS	200	1.00	
RGBEV 630 FS	300	1.00	
RGBEV 640 FS	400	1.00	
RGBEV 650 FS	500	1.00	
RGBEV 660 FS	600	1.00	

Installation



Radius table

Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	approx. 600 mm
4	approx. 750 mm
5	approx. 900 mm

Please order two RGV 60 articulated connectors separately.

Cable tray MKS



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKS 810 FS	100	1.00	3	207.670	6057101
MKS 820 FS	200	1.00	3	292.334	6057209
MKS 830 FS	300	1.00	3	357.667	6057306
MKS 840 FS	400	1.00	3	423.000	6057403
MKS 850 FS	500	1.00	3	488.000	6057500
MKS 860 FS	600	1.00	3	553.000	6057535

Sl Steel

FS Strip-galvanised

Including connector, type RLVL 85.

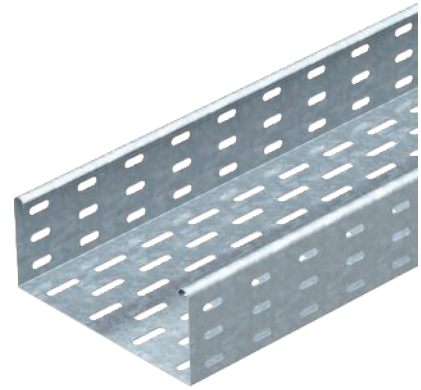
MKS 85 = medium-duty cable tray system with a side height of 85 mm.

Type	Length mm	Dimen- sion B mm	Useful cross- section cm ²
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

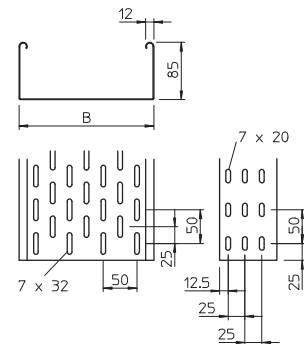
Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKS 810 FS	1.75	1.1	0.5
MKS 820 FS	1.75	1.1	0.5
MKS 830 FS	1.75	1.1	0.5
MKS 840 FS	1.75	1.1	0.5
MKS 850 FS	1.75	1.1	0.5
MKS 860 FS	1.75	1.1	0.5

Load diagram, cable tray, type MKS 85

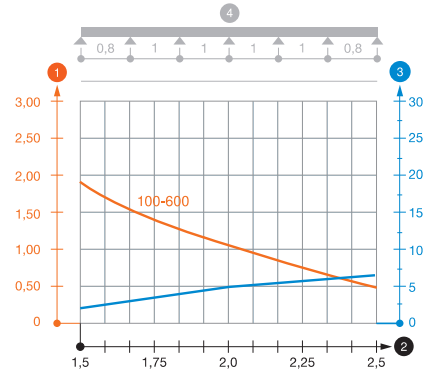
- 1 Permitted cable tray/ladder load in kN/m without man load
- 2 Support width in m
- 3 Rail bend in mm at permitted kN/m
- 4 Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



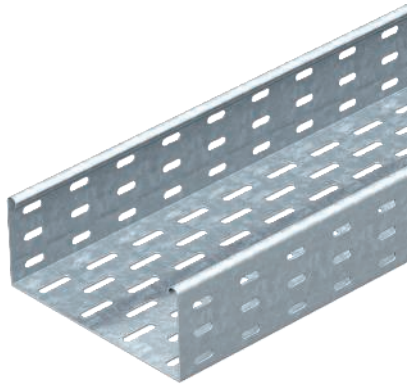
Dimensions



Load



Cable tray SKS



Type	Plate thickness		Pack. m	Weight kg/100 m	Item No.
	mm	mm			
SKS 810 FS	100	1.50	3	310.340	6058108
SKS 820 FS	200	1.50	3	429.000	6058205
SKS 830 FS	300	1.50	3	527.000	6058302
SKS 840 FS	400	1.50	3	624.000	6058396
SKS 850 FS	500	1.50	3	704.700	6058507
SKS 860 FS	600	1.50	3	821.000	6058604
SKS 810 FT	100	1.50	3	334.000	6058620
SKS 820 FT	200	1.50	3	438.340	6058647
SKS 830 FT	300	1.50	3	543.000	6058663
SKS 840 FT	400	1.50	3	644.000	6058698
SKS 850 FT	500	1.50	3	750.340	6058728
SKS 860 FT	600	1.50	3	856.670	6058744

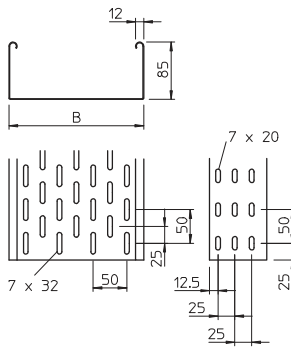
SI Steel

FS Strip-galvanised FT Hot-dip galvanised

FS version includes connector, type RLVL 85.

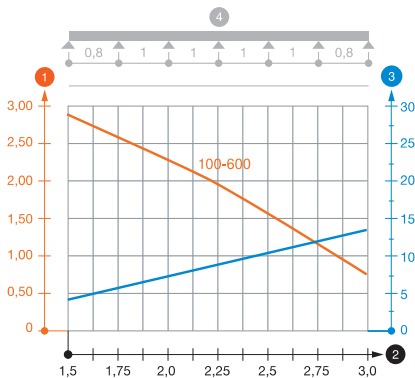
SKS 85 = heavy-duty cable tray system with 85 mm side height.

Dimensions



Type	Length mm	Dimension B mm	Useful cross-section cm ²
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

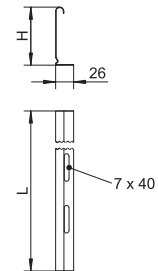
Separating retainer

Type	Dimen- sion H mm	Plate thickness mm	Dimen- sion L mm	Pack. Weight		Item No.
				m	kg/100 m	
TSG 85 FS	85	0.75	3000	3	70.300	6062114
TSG 85 DD	85	0.75	3000	3	70.300	6062331

St Steel

FS Strip-galvanised **DD** Strip galvanised zinc/aluminium,double dip

Separating retainer for separation of cables of different voltages or functions.

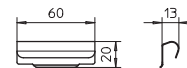


Separating retainer connector

Type	Pack. pcs.	Weight kg/100 pcs.	Item No.

V2A Stainless steel, A2

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.



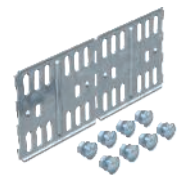
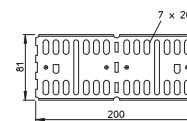
Straight and angle connector

Type	Side height mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
RLVL 85 FT	85	10	28.300	6067816

St Steel

FS Strip-galvanised **FT** Hot-dip galvanised

Including appropriate fastening material.



Side end panel - SEB 85 FS

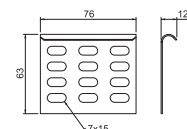
Type	Side height mm	Pack. pcs.	Weight kg/100 pcs.	Item No.

St Steel

FS Strip-galvanised

Including appropriate fastening material.

Side end plate for side reinforcement at the ends of the cable tray and as cable protection.



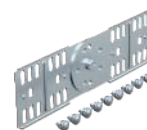
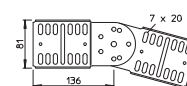
Adjustable connector

Type	Side height mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
RGV 85 FT	85	10	45.900	7082320

St Steel

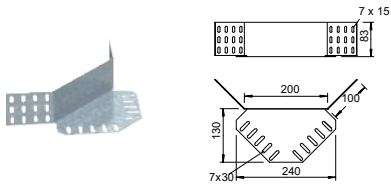
FS Strip-galvanised **FT** Hot-dip galvanised

Including appropriate fastening material.



Side height 85

Corner connector



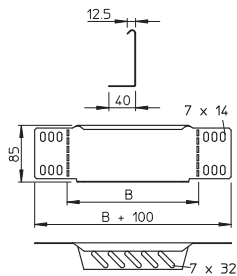
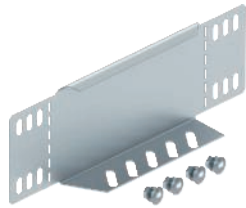
Type	Side height mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
REV 85 FS	85	10	61.000	6067980
REV 85 DD	85	10	61.000	6069320

St Steel

FS Strip-galvanised **DD** Strip galvanised zinc/aluminium, double dip

Fastening materials should be ordered separately.

Reducer / stop-end



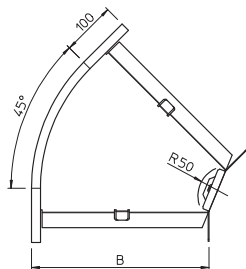
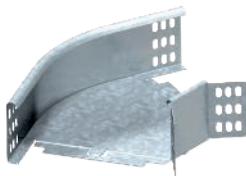
Type	Side height mm	Dimension B mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
RWEB 810 FS	85	100	1	12.500	7110103
RWEB 820 FS	85	200	1	23.400	7110200
RWEB 830 FS	85	300	1	33.300	7110308
RWEB 840 FS	85	400	1	43.200	7110405
RWEB 850 FS	85	500	1	53.200	7110502
RWEB 860 FS	85	600	1	63.000	7110618
RWEB 810 DD	85	100	1	12.600	7107315
RWEB 820 DD	85	200	1	23.300	7107331
RWEB 830 DD	85	300	1	33.300	7107366
RWEB 840 DD	85	400	1	43.200	7107382
RWEB 850 DD	85	500	1	53.100	7107404
RWEB 860 DD	85	600	1	63.100	7107420

St Steel

FS Strip-galvanised **DD** Strip galvanised zinc/aluminium, double dip

From a width of 150 mm, a perforated bottom flange is available. Including appropriate fastening material.

45° Bend



Type	Dimension B 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

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.

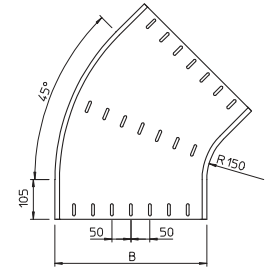
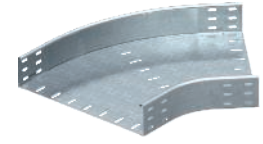
45° bend

Type	Dimension B 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

FS Strip-galvanised FT Hot-dip galvanised

Fastening materials should be ordered separately.

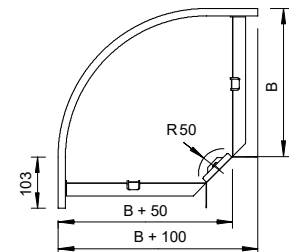
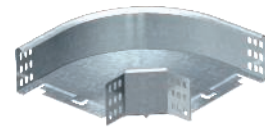


90° Bend

Type	Dimension B 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

FS Strip-galvanised FT Hot-dip galvanised

The fitting is shipped in an unmounted state.
Including appropriate fastening material.

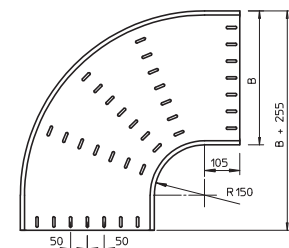
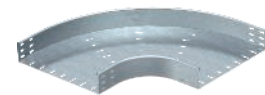
90° Bend

Type	Dimension B 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

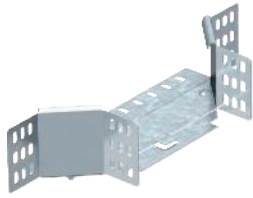
St Steel

FS Strip-galvanised FT Hot-dip galvanised

Fastening materials should be ordered separately.



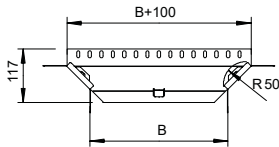
Add-on tee



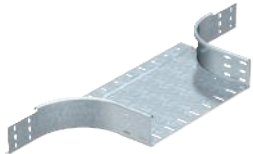
Type	Width mm	Weight		Item No.
		Pack. pcs.	kg/100 pcs.	
RAA 810 FS	100	1	40.000	7002475
RAA 820 FS	200	1	45.000	7002491
RAA 830 FS	300	1	60.000	7002513
RAA 810 FT	100	1	45.000	7122109
RAA 820 FT	200	1	50.000	7122213
RAA 830 FT	300	1	65.000	7122310

St Steel
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.



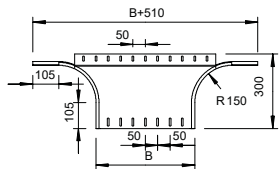
Add-on tee



Type	Width mm	Weight		Item No.
		Pack. pcs.	kg/100 pcs.	
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
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.



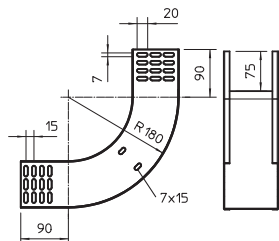
90° vertical bend, rising



Type	Side height mm	Dimen- sion B mm	Weight		Item No.
			Pack. pcs.	kg/100 pcs.	
RBV 810 S FS	85	100	1	97.100	7007230
RBV 820 S FS	85	200	1	132.600	7007234
RBV 830 S FS	85	300	1	156.200	7007238
RBV 840 S FS	85	400	1	179.900	7007242
RBV 850 S FS	85	500	1	203.500	7007246
RBV 860 S FS	85	600	1	227.100	7007250
RBV 810 S FT	85	100	1	97.100	7007231
RBV 820 S FT	85	200	1	132.600	7007235
RBV 830 S FT	85	300	1	156.200	7007239
RBV 840 S FT	85	400	1	179.900	7007243
RBV 850 S FT	85	500	1	203.500	7007247
RBV 860 S FT	85	600	1	227.100	7007251

St Steel
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.



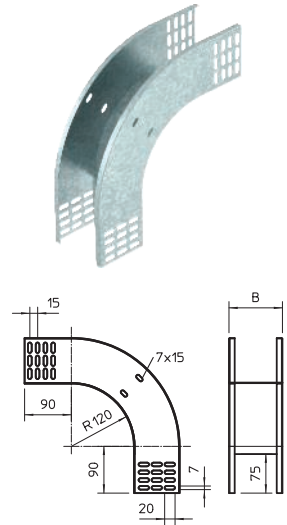
90° vertical bend, falling

Type	Side height mm	Dimension B mm	Pack. pcs	Weight	
				kg/100 pcs.	Item No.
RBV 810 F FS	85	100	1	86.600	7007270
RBV 820 F FS	85	200	1	104.200	7007274
RBV 830 F FS	85	300	1	121.800	7007278
RBV 840 F FS	85	400	1	139.500	7007282
RBV 850 F FS	85	500	1	157.100	7007286
RBV 860 F FS	85	600	1	174.700	7007290
RBV 810 F FT	85	100	1	86.600	7007271
RBV 820 F FT	85	200	1	104.200	7007275
RBV 830 F FT	85	300	1	121.800	7007279
RBV 840 F FT	85	400	1	139.500	7007283
RBV 850 F FT	85	500	1	157.100	7007287
RBV 860 F FT	85	600	1	174.700	7007291

St Steel

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.



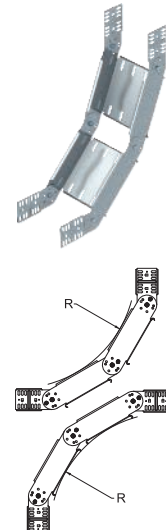
90° articulated bend, vertical

Type	Width mm	Pack. pcs	Weight	
			kg/100 pcs.	Item No.
RGBV 810 FS	100	1	244.000	7006462
RGBV 820 FS	200	1	305.000	7006489
RGBV 830 FS	300	1	355.000	7006500
RGBV 840 FS	400	1	407.000	7006527
RGBV 850 FS	500	1	449.000	7006543
RGBV 860 FS	600	1	508.000	7006578
RGBV 810 FT	100	1	261.000	7080107
RGBV 820 FT	200	1	325.000	7080204
RGBV 830 FT	300	1	380.000	7080301
RGBV 840 FT	400	1	435.000	7080409
RGBV 850 FT	500	1	488.000	7080506
RGBV 860 FT	600	1	550.000	7080603

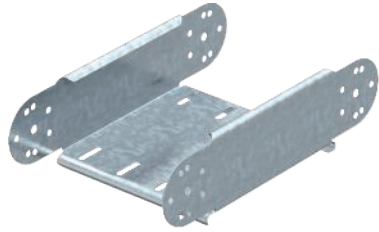
St Steel

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	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
RGBEV 810 FS	85	1	71.500	7005466
RGBEV 820 FS	85	1	91.900	7005482
RGBEV 830 FS	85	1	112.400	7005504
RGBEV 840 FS	85	1	133.000	7005520
RGBEV 850 FS	85	1	153.100	7005547
RGBEV 860 FS	85	1	173.400	7005563
RGBEV 810 FT	85	1	76.700	7076096
RGBEV 820 FT	85	1	98.500	7076207
RGBEV 830 FT	85	1	120.500	7076304
RGBEV 840 FT	85	1	142.000	7076401
RGBEV 850 FT	85	1	164.100	7076509
RGBEV 860 FT	85	1	185.900	7076606

SI Steel

FS Strip-galvanised FT Hot-dip galvanised

RGV 85 adjustable connectors should be ordered separately and in the appropriate quantity.

Dimensions

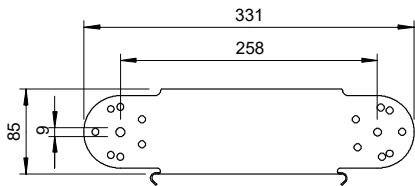
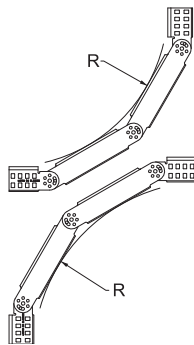


	Plate	
	Width mm	thickness mm
RGBEV 810 FS	100	1.00
RGBEV 820 FS	200	1.00
RGBEV 830 FS	300	1.00
RGBEV 840 FS	400	1.00
RGBEV 850 FS	500	1.00
RGBEV 860 FS	600	1.00

Installation



Radius table

Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	approx. 600 mm
4	approx. 750 mm
5	approx. 900 mm

Please order two RGV 85 articulated connectors separately.

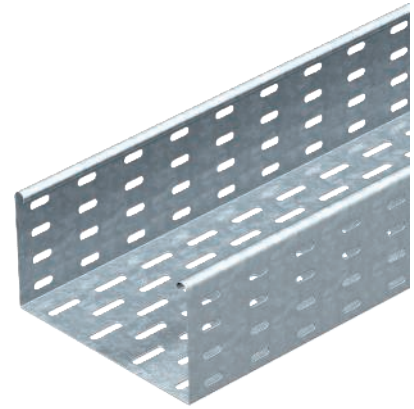
Cable tray MKS



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKS 110 FS	100	1.00	3	243.100	6060102
MKS 120 FS	200	1.00	3	308.500	6060196
MKS 130 FS	300	1.00	3	373.900	6060307
MKS 140 FS	400	1.00	3	463.000	6060404
MKS 150 FS	500	1.00	3	503.700	6060412
MKS 155 FS	550	1.00	3	536.700	6060528
MKS 110 FT	100	1.00	3	264.590	6060609
MKS 120 FT	200	1.00	3	335.000	6060625
MKS 130 FT	300	1.00	3	407.000	6060641
MKS 140 FT	400	1.00	3	484.000	6060676
MKS 150 FT	500	1.00	3	553.340	6060692
MKS 160 FT	600	1.00	3	622.334	6060710
MKS 110 A2	100	1.00	3	243.000	6060803
MKS 120 A2	200	1.00	3	335.000	6060811
MKS 130 A2	300	1.00	3	407.000	6060838
MKS 140 A2	400	1.00	3	440.340	6060846

St Steel V2A Stainless steel, A2
 FS Strip-galvanised FT Hot-dip galvanised

Including connector, type RLVL 110.
 MKS 110 = medium-duty cable tray system with a side height of 110 mm.



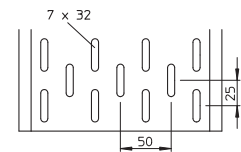
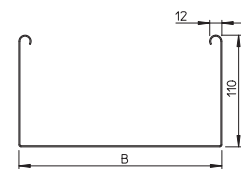
Type	Length mm	Dimension B mm	Useful cross-section cm ²
MKS 110 FS	3000	100	108
MKS 120 FS	3000	200	218
MKS 130 FS	3000	300	328
MKS 140 FS	3000	400	438
MKS 150 FS	3000	500	548
MKS 155 FS	3000	550	603
MKS 160 FT	3000	600	655

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

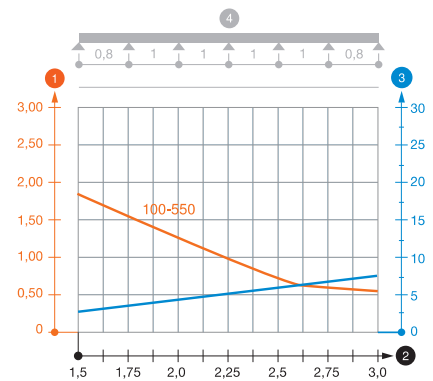
Load diagram, cable tray, type MKS 110

- 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

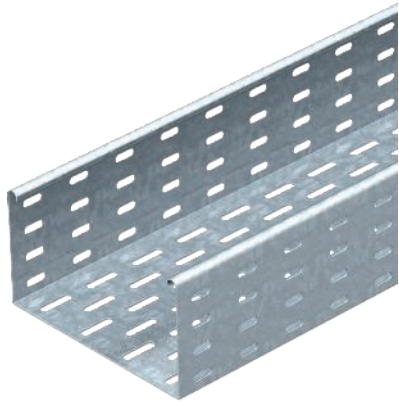
Dimensions



Load



Cable tray SKS



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
SKS 110 FS	100	1.50	3	386.000	6061109
SKS 120 FS	200	1.50	3	486.340	6061206
SKS 130 FS	300	1.50	3	584.000	6061303
SKS 140 FS	400	1.50	3	681.670	6061400
SKS 150 FS	500	1.50	3	779.670	6061508
SKS 155 FS	550	1.50	3	830.000	6061559
SKS 110 FT	100	1.50	3	388.680	6061605
SKS 120 FT	200	1.50	3	494.000	6061621
SKS 130 FT	300	1.50	3	598.340	6061656
SKS 140 FT	400	1.50	3	697.340	6061672
SKS 150 FT	500	1.50	3	807.000	6061702
SKS 155 FT	550	1.50	3	856.000	6061729

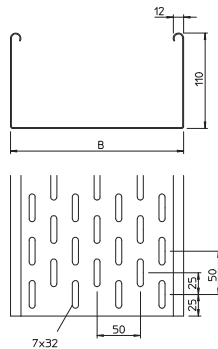
SI Steel

FS Strip-galvanised FT Hot-dip galvanised

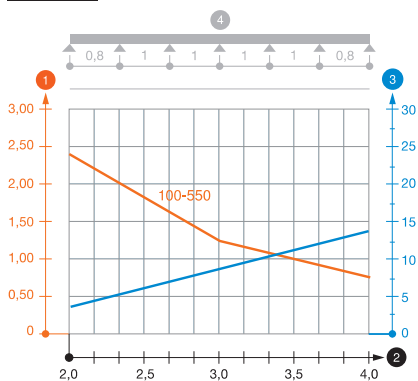
FS version includes connector, type RLVL 110.

SKS 110 = heavy-duty cable tray system with 110 mm side height.

Dimensions



Load



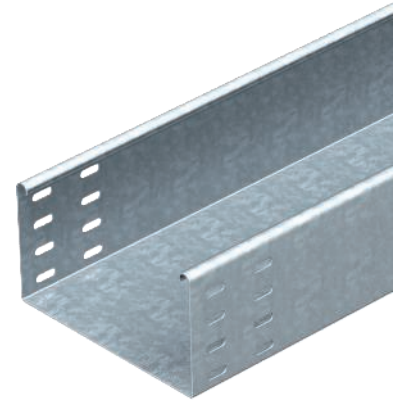
Type	Length mm	Dimen- sion B mm	Useful cross- section cm ²
SKS 110 FS	3000	100	108
SKS 120 FS	3000	200	218
SKS 130 FS	3000	300	328
SKS 140 FS	3000	400	438
SKS 150 FS	3000	500	548
SKS 155 FS	3000	550	603

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

Cable tray SKSU



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
SKSU 110 FS	100	1.50	3	404.000	6063403
SKSU 120 FS	200	1.50	3	520.000	6063438
SKSU 130 FS	300	1.50	3	637.000	6063454
SKSU 140 FS	400	1.50	3	754.700	6063470
SKSU 150 FS	500	1.50	3	872.000	6063497
SKSU 155 FS	550	1.50	3	935.340	6063500
SKSU 110 FT	100	1.50	3	406.700	6064795
SKSU 120 FT	200	1.50	3	551.340	6064833
SKSU 130 FT	300	1.50	3	694.000	6064884
SKSU 140 FT	400	1.50	3	822.670	6064922
SKSU 150 FT	500	1.50	3	924.670	6064965
SKSU 155 FT	550	1.50	3	991.670	6064973

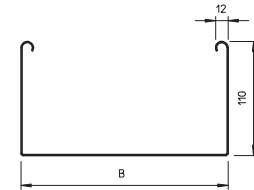
St Steel

FS Strip-galvanised FT Hot-dip galvanised

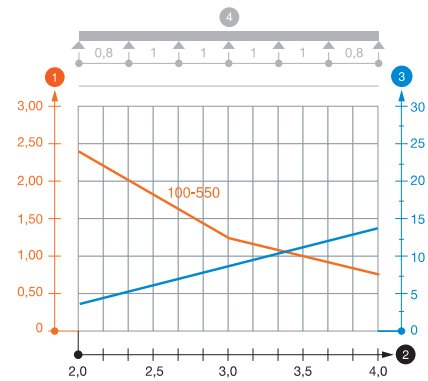
The cable tray has connector perforations on both sides.
Straight connectors should be ordered separately and in the appropriate quantity.
SKSU 110 = heavy-duty cable tray system, unperforated, with 110 mm side height.

Type	Length mm	Dimen- sion B 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	605

Dimensions



Load

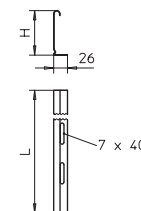


Type	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
SKSU 110 FS	3	2.4	1.2	0.8
SKSU 120 FS	3	2.4	1.2	0.8
SKSU 130 FS	3	2.4	1.2	0.8
SKSU 140 FS	3	2.4	1.2	0.8
SKSU 150 FS	3	2.4	1.2	0.8
SKSU 155 FS	3	2.4	1.2	0.8

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

Separating retainer



Type	Dimen- sion H mm	Plate thickness mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
TSG 110 FS	110	0.75	3000	3	85.000	6062122
TSG 110 DD	110	0.75	3000	3	85.000	6062335
TSG 110 A2	110	0.75	3000	3	84.340	6062255

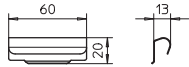
St Steel

V2A Stainless steel, A2

FS Strip-galvanised DD Strip galvanised zinc/aluminium, double dip

Barrier strip for separation of cables of different voltages or functions.

Separating retainer connector

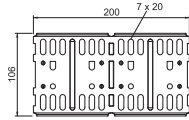


Type	Pack. pcs	Weight kg/100 pcs	Item No.
TSGV A2	10	0.923	6067970

V2A Stainless steel, A2

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Straight and angle connector

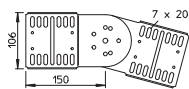
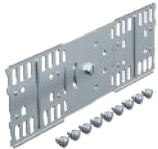


Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
RLVL 110 FS	110	10	33.800	6067131
RLVL 110 FT	110	10	35.100	6067913
RLVL 110 A2	110	10	33.400	6067948

SI Steel V2A Stainless steel, A2
 FS Strip-galvanised FT Hot-dip galvanised

Including appropriate fastening material.

Adjustable connector

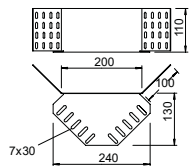


Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
RGV 110 FS	110	10	61.700	7082037
RGV 110 FT	110	10	64.300	7082436
RGV 110 A2	110	4	61.700	7082479

SI Steel V2A Stainless steel, A2
 FS Strip-galvanised FT Hot-dip galvanised

Including appropriate fastening material.

Corner connector

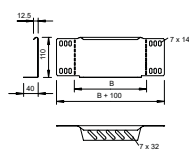
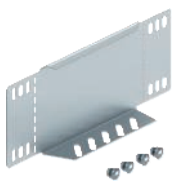


Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
REV 110 FS	110	10	72.000	6067999
REV 110 DD	110	10	72.000	6069339

SI Steel
 FS Strip-galvanised DD Strip galvanised zinc/aluminium,double dip

Fastening materials should be ordered separately.

Reducing bracket/end closure



Type	Side height mm	Dimension B 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

SI Steel
 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.

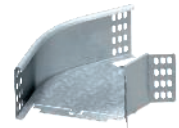
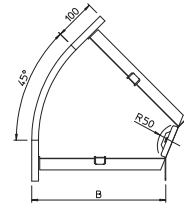
Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 45 110 FS	100	1	70.000	7000634
RB 45 120 FS	200	1	100.000	7000650
RB 45 130 FS	300	1	135.000	7000677
RB 45 110 FT	100	1	75.000	7068115
RB 45 120 FT	200	1	110.000	7068212
RB 45 130 FT	300	1	145.000	7068328

St Steel

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



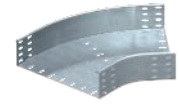
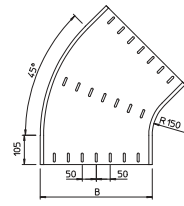
Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 45 140 FS	400	1	340.000	7000685
RB 45 150 FS	500	1	400.000	7000707
RB 45 155 FS	550	1	470.000	7000715
RB 45 140 FT	400	1	365.000	7068409
RB 45 150 FT	500	1	425.000	7068506
RB 45 155 FT	550	1	500.000	7068557

St Steel

FS Strip-galvanised FT Hot-dip galvanised

Fastening materials should be ordered separately.

45° Bend



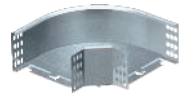
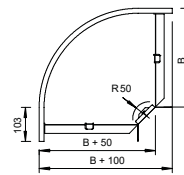
Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 90 110 FS	100	1	80.000	7001894
RB 90 120 FS	200	1	140.000	7001916
RB 90 130 FS	300	1	210.000	7001932
RB 90 110 FT	100	1	85.000	7127103
RB 90 120 FT	200	1	150.000	7127227
RB 90 130 FT	300	1	230.000	7127320

St Steel

FS Strip-galvanised FT Hot-dip galvanised

The fitting is shipped in an unmounted state. Including appropriate fastening material.

90° bend



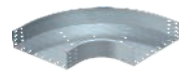
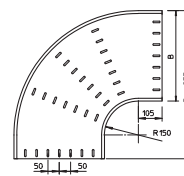
Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 90 140 FS	400	1	540.000	7001940
RB 90 150 FS	500	1	700.000	7001967
RB 90 155 FS	550	1	780.000	7001975
RB 90 140 FT	400	1	575.000	7127413
RB 90 150 FT	500	1	750.000	7127499
RB 90 155 FT	550	1	840.000	7127545

St Steel

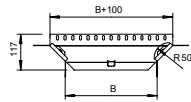
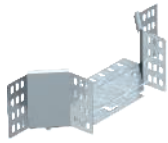
FS Strip-galvanised FT Hot-dip galvanised

Fastening materials should be ordered separately.

90° Bend



Add-on tee



Type	Dimension B mm	Weight		Item No.
		Pack. pcs	kg/100 pcs.	
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

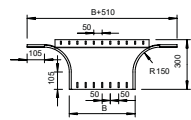
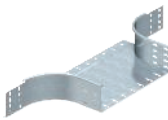
FS Strip-galvanised FT Hot-dip galvanised

The fitting is shipped in an unmounted state.

Including appropriate fastening material.

Add-on tee for horizontal and vertical use.

Add-on tee



Type	Dimension B mm	Weight		Item No.
		Pack. pcs	kg/100 pcs.	
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

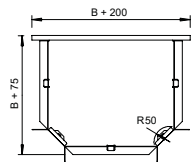
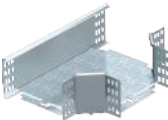
St Steel

FS Strip-galvanised FT Hot-dip galvanised

Fastening materials should be ordered separately.

Add-on tee for horizontal and vertical use.

Tee



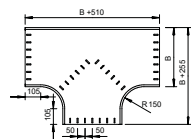
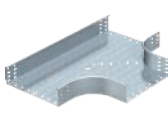
Type	Dimension B mm	Weight		Item No.
		Pack. pcs	kg/100 pcs.	
RT 110 FS	100	1	105.000	7003633
RT 120 FS	200	1	160.000	7003668
RT 130 FS	300	1	235.000	7003684
RT 110 FT	100	1	110.000	7119119
RT 120 FT	200	1	180.000	7119216
RT 130 FT	300	1	250.000	7119313

St Steel

FS Strip-galvanised FT Hot-dip galvanised

The fitting is shipped in an unmounted state. Including appropriate fastening material.

Tee



Type	Dimension B mm	Weight		Item No.
		Pack. pcs	kg/100 pcs.	
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

FS Strip-galvanised FT Hot-dip galvanised

Fastening materials should be ordered separately.

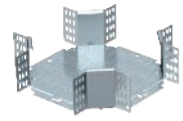
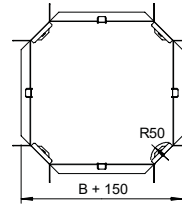
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RK 110 FS	100	1	110.000	7004648
RK 120 FS	200	1	160.000	7004664
RK 130 FS	300	1	220.000	7004680
RK 110 FT	100	1	120.000	7115113
RK 120 FT	200	1	175.000	7115210
RK 130 FT	300	1	240.000	7115318

St Steel

FS Strip-galvanised **FT** Hot-dip galvanised

The fitting is shipped in an unmounted state. Including appropriate fastening material.

Cross-over



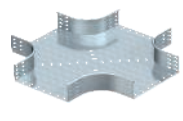
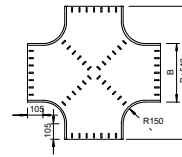
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RK 140 FS	400	1	906.000	7004699
RK 150 FS	500	1	1,100.000	7004710
RK 140 FT	400	1	960.000	7115407
RK 150 FT	500	1	1,180.000	7115504
RK 160 FT	600	1	1,340.000	7115564

St Steel

FS Strip-galvanised **FT** Hot-dip galvanised

Fastening materials should be ordered separately.

Cross-over



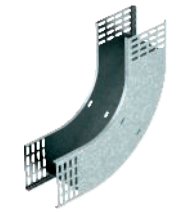
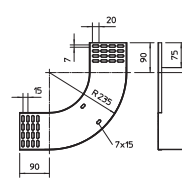
90° vertical bend, rising

Type	Side height mm	Dimen- sion B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 110 S FS	110	100	1	120.100	7007310
RBV 120 S FS	110	200	1	151.300	7007314
RBV 130 S FS	110	300	1	182.400	7007318
RBV 140 S FS	110	400	1	213.600	7007322
RBV 150 S FS	110	500	1	244.800	7007326
RBV 155 S FS	110	550	1	260.400	7007330
RBV 110 S FT	110	100	1	120.000	7007398
RBV 120 S FT	110	200	1	163.000	7007400
RBV 130 S FT	110	300	1	182.400	7007319
RBV 140 S FT	110	400	1	231.000	7007404
RBV 150 S FT	110	500	1	244.800	7007327
RBV 155 S FT	110	550	1	260.400	7007331

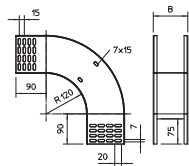
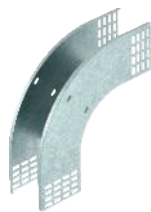
St Steel

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



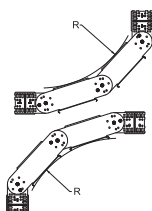
Type	Side height mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 110 F FS	110	100	1	106.300	7007350
RBV 120 F FS	110	200	1	124.000	7007354
RBV 130 F FS	110	300	1	141.600	7007358
RBV 140 F FS	110	400	1	159.200	7007362
RBV 150 F FS	110	500	1	176.900	7007366
RBV 155 F FS	110	550	1	185.700	7007370
RBV 110 F FT	110	100	1	120.000	7007468
RBV 120 F FT	110	200	1	134.000	7007470
RBV 130 F FT	110	300	1	141.600	7007359
RBV 140 F FT	110	400	1	172.000	7007474
RBV 150 F FT	110	500	1	176.900	7007367
RBV 155 F FT	110	550	1	185.700	7007371

SI Steel

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° articulated bend, vertical



Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGBV 110 FS	100	1	363.000	7006624
RGBV 120 FS	200	1	420.000	7006640
RGBV 130 FS	300	1	480.000	7006667
RGBV 140 FS	400	1	530.000	7006683
RGBV 150 FS	500	1	580.000	7006705
RGBV 155 FS	550	1	610.000	7006713
RGBV 110 FT	100	1	363.000	7081103
RGBV 120 FT	200	1	420.000	7081200
RGBV 130 FT	300	1	480.000	7081308
RGBV 140 FT	400	1	530.000	7081405
RGBV 150 FT	500	1	580.000	7081502
RGBV 155 FT	550	1	610.000	7081553

SI Steel

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	Side height mm	Weight		Item No.
		Pack. pcs	kg/100 pcs.	
RGBEV 110 FS	110	1	96.500	7005628
RGBEV 120 FS	110	1	116.800	7005644
RGBEV 130 FS	110	1	137.200	7005660
RGBEV 140 FS	110	1	157.500	7005687
RGBEV 150 FS	110	1	177.900	7005709
RGBEV 155 FS	110	1	204.900	7005717
RGBEV 110 FT	110	1	103.400	7077106
RGBEV 120 FT	110	1	125.200	7077203
RGBEV 130 FT	110	1	147.100	7077300
RGBEV 140 FT	110	1	168.900	7077408
RGBEV 150 FT	110	1	193.600	7077505

St. Steel

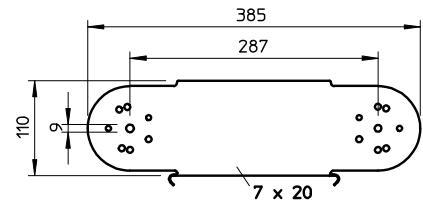
FS Strip-galvanised FT Hot-dip galvanised

RGV 110 articulated connectors should be ordered separately and in the appropriate quantity.

	Plate	
	Width mm	thickness mm
RGBEV 110 FS	100	1.00
RGBEV 120 FS	200	1.00
RGBEV 130 FS	300	1.00
RGBEV 140 FS	400	1.00
RGBEV 150 FS	500	1.00
RGBEV 155 FS	550	1.00



Dimensions

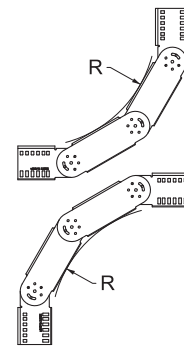


Radius table

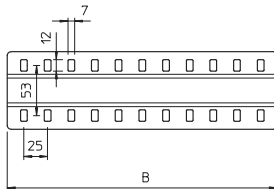
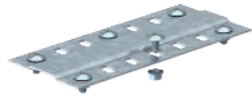
Quantity of elements	Radius
1	Approx. 300 mm
2	Approx. 450 mm
3	Approx. 600 mm
4	Approx. 750 mm
5	Approx. 900 mm

Please order two RGV 110 articulated connectors separately.

Installation



Joint plate



Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SSLB 100 FS	100	20	7.700	7070205
SSLB 150 FS	150	20	12.200	7070209
SSLB 200 FS	200	20	16.700	7070213
SSLB 300 FS	300	20	25.700	7070217
SSLB 400 FS	400	20	34.700	7070221
SSLB 500 FS	500	20	43.700	7070225
SSLB 550 FS	550	20	48.200	7070229
SSLB 600 FS	600	20	52.700	7070233
SSLB 100 DD	100	20	7.700	7070306
SSLB 150 DD	150	20	12.200	7070310
SSLB 200 DD	200	20	16.700	7070314
SSLB 300 DD	300	20	25.700	7070318
SSLB 400 DD	400	20	34.700	7070322
SSLB 500 DD	500	20	43.700	7070326
SSLB 550 DD	550	20	48.200	7070330
SSLB 600 DD	600	20	52.700	7070334

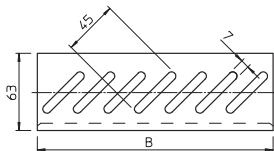
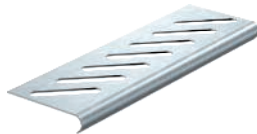
St Steel

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	Dimension B 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

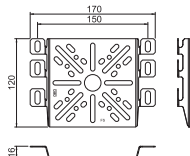
St Steel

FS Strip-galvanised DD Strip galvanised zinc/aluminium, double dip

For fastening, please order screws, type FRSB M6x12, separately.

Bottom end plate for floor reinforcement at the ends of the cable tray and as cable protection.

Mounting plate for cable tray



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	11.000	7085114
MP UNI A2	115	170	40	11.000	7085133

St Steel V2A Stainless steel, A2

FS Strip-galvanised DD Strip galvanised zinc/aluminium, double dip

Please order the truss-head bolt, type FRSB 6 x 12, separately.

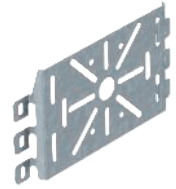
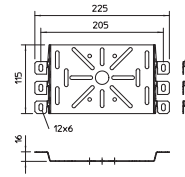
Mounting plate, for fastening on the side rail of cable support systems.

Wall bracket / mounting plate

Type	Height	Width	Pack.	Weight	Item No.
	mm	mm		kg/100	
MP 225 UNI FS	115	225	20	20.000	7084870

- St** Steel
- FS** Strip-galvanised

Please order the truss-head bolt, type FR5B 6 x 12, separately.
 Mounting plate for universal use on side rails of cable trays and mesh cable trays.

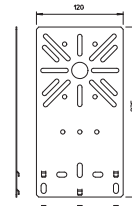


Wall bracket / mounting plate

Type	Height	Width	Pack.	Weight	Item No.
	mm	mm		kg/100	
MP FL FS	235	120	40	19.200	7084757
MP FL DD	235	120	40	19.200	7085108

- St** Steel
- FS** Strip-galvanised
- DD** Strip galvanised zinc/aluminium,double dip

Please order the truss-head bolt, type FRS B6 x 12, separately.
 Flat mounting plate, for fastening on the side rail of the cable tray.

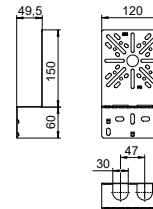


Mounting plate, angled

Type	Height	Width	Pack.	Weight	Item No.
	mm	mm		kg/100	
MP WI KL. FS	210	120	20	20.200	7084765
MP WI KL. DD	210	120	20	20.200	7085111

- St** Steel
- FS** Strip-galvanised
- DD** Strip galvanised zinc/aluminium,double dip

Please order the truss-head bolt, type FRS B6 x 12, separately.
 Curved mounting plate, for fixing on the side rail of the cable tray.

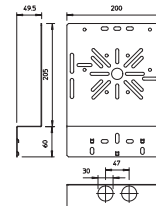


Wall bracket / mounting plate

Type	Height	Width	Pack.	Weight	Item No.
	mm	mm		kg/100	
MP WI GR. FS	240	200	25	39.400	7084781
MP WI GR. DD	240	200	25	39.400	7085112

- St** Steel
- FS** Strip-galvanised
- DD** Strip galvanised zinc/aluminium,double dip

Please order the truss-head bolt, type FRS B6 x 12, separately.
 Angled mounting plate, for fastening on the side rail of the cable tray.

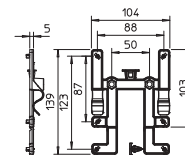


Fastening element for cable tray

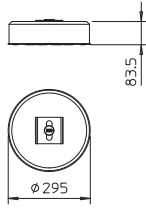
Type	Pack.	Weight	Item No.
		kg/100	
BE TS KR	10	2.800	2007835

- PC** Polycarbonate

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.



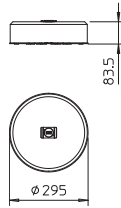
Stand - TrayFix set 10 L



Type	From tray width mm	Pack. pcs	Weight		Item No.
			kg/100 pcs.	pcs.	
TrayFix-10-L	100	1	1,100.000		5403101

- Mounting system for the fastening of mesh cable trays with the FangFix stone, e.g. cable routing on a flat roof.
- Matched to OBO cable tray systems MKSM and SKSM.
- Matched to OBO mesh cable systems with a minimum width of 100 mm.
- Set consisting of TrayFix mounting adapter and concrete block including base for FangFix system 16 kg

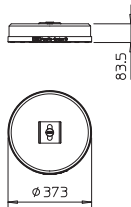
Stand - TrayFix set 10 S



Type	From tray width mm	Pack. pcs	Weight		Item No.
			kg/100 pcs.	pcs.	
TrayFix-10-S	100	1	1,000.000		5403102

- Mounting system for the fastening of mesh cable trays with the FangFix stone, e.g. cable routing on a flat roof.
- Matches 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

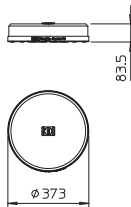
Stand - TrayFix set 16 L



Type	From tray width mm	Pack. pcs	Weight		Item No.
			kg/100 pcs.	pcs.	
TrayFix-16-L	100	1	1,700.000		5403098

- Mounting system for the fastening of mesh cable trays with the FangFix stone, e.g. cable routing on a flat roof.
- Matched to OBO cable tray systems MKSM and SKSM.
- Matched to OBO mesh cable systems with a minimum width of 100 mm.
- Set consisting of TrayFix mounting adapter and concrete block including base for FangFix system 16 kg

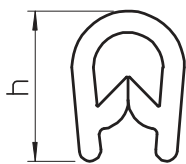
Stand - TrayFix set 16 S



Type	From tray width mm	Pack. pcs	Weight		Item No.
			kg/100 pcs.	pcs.	
TrayFix-16-S	100	1	1,700.000		5403099

- Mounting system for the fastening of mesh cable trays with the FangFix stone, e.g. cable routing on a flat roof.
- Matches 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

Edge protection strip



Type	For plate thickness mm	Dimension h mm	Pack. m	Weight		Item No.
				kg/100 m	pcs.	
KSB 2 PVC	0.75 - 2	10	10	8.000		6072909
KSB 4 PVC	1.5 - 4	15	10	14.000		6072895

PVC Polyvinylchloride

Edge protection strip with steel inlay to cover cut plate ends. Black, UV-resistant version.

Cover

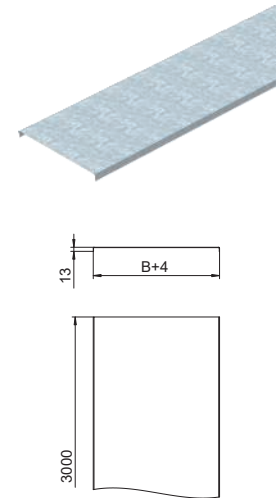
Type	Dimension B mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRLU 050 FS	50	0.75	3000	3	59.770	6052056
DRLU 100 FS	100	0.75	3000	3	99.000	6052103
DRLU 150 FS	150	0.75	3000	3	138.270	6052153
DRLU 200 FS	200	1.00	3000	3	177.500	6052210
DRLU 300 FS	300	1.00	3000	3	256.000	6052307
DRLU 400 FS	400	1.00	3000	3	334.670	6052405
DRLU 500 FS	500	1.25	3000	3	619.230	6052512
DRLU 550 FS	550	1.25	3000	3	678.100	6052571
DRLU 600 FS	600	1.25	3000	3	737.000	6052609
DRLU 050 DD	50	0.75	3000	3	59.770	6052640
DRLU 100 DD	100	0.75	3000	3	99.000	6052643
DRLU 150 DD	150	0.75	3000	3	138.270	6052647
DRLU 200 DD	200	1.00	3000	3	177.500	6052650
DRLU 300 DD	300	1.00	3000	3	256.000	6052656
DRLU 400 DD	400	1.00	3000	3	334.500	6052662
DRLU 500 DD	500	1.25	3000	3	619.230	6052668
DRLU 550 DD	550	1.25	3000	3	678.100	6052671
DRLU 600 DD	600	1.25	3000	3	737.000	6052674
DRLU 050 A2	50	1.00	3000	3	59.770	6052821
DRLU 100 A2	100	1.00	3000	3	99.000	6052824
DRLU 150 A2	150	1.00	3000	3	138.240	6052828
DRLU 200 A2	200	1.00	3000	3	177.500	6052831
DRLU 300 A2	300	1.00	3000	3	256.000	6052834
DRLU 400 A2	400	1.00	3000	3	334.500	6052837
DRLU 500 A2	500	1.25	3000	3	619.170	6052841
DRLU 600 A2	600	1.25	3000	3	736.900	6052844
DRLU 100 A4	100	1.00	3000	3	99.000	6052991
DRLU 150 A4	150	1.00	3000	3	138.240	6052992
DRLU 200 A4	200	1.00	3000	3	177.500	6052993
DRLU 300 A4	300	1.00	3000	3	256.000	6052994
DRLU 400 A4	400	1.00	3000	3	334.500	6052995
DRLU 500 A4	500	1.25	3000	3	619.170	6052996
DRLU 600 A4	600	1.25	3000	3	736.900	6052998

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4
 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 clamp, universal

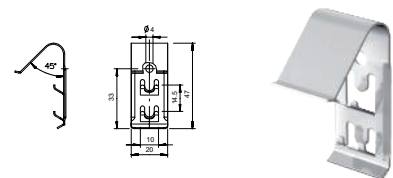
Type	Pack. pcs	Weight kg/100 pcs	Item No.
DKU A2	20	0.800	6065600

V2A Stainless steel, A2

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.



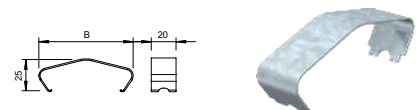
Cover clamp

Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs	Item No.
DKL 35 A2	50.9	20	1.400	6065503
DKL 45 A2	60.9	20	1.600	6065511
DKL 60 A2	75.9	20	1.800	6065538
DKL 85 A2	95.9	20	2.100	6065546
DKL 110 A2	120.9	20	2.400	6065554

V2A Stainless steel, A2

Cover clamp for additional fastening of the cover, e.g. in case of high wind load.

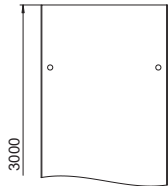
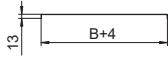
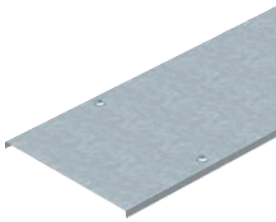
Cover clamp for secure fastening of covers on cable trays and cable ladders.



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Cable tray systems

Cover with turn buckle



Type	Dimension B mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRL 050 FS	50	1.00	3000	3	61.070	6052053
DRL 075 FS	75	1.00	3000	3	83.340	6052029
DRL 100 FS	100	1.00	3000	3	103.000	6052096
DRL 150 FS	150	1.00	3000	3	141.667	6052150
DRL 200 FS	200	1.00	3000	3	181.340	6052207
DRL 300 FS	300	1.00	3000	3	259.334	6052304
DRL 400 FS	400	1.00	3000	3	338.670	6052401
DRL 500 FS	500	1.25	3000	3	623.000	6052509
DRL 550 FS	550	1.25	3000	3	681.670	6052568
DRL 600 FS	600	1.25	3000	3	741.000	6052606
DRL 050 DD	50	1.00	3000	3	61.070	6052700
DRL 100 DD	100	1.00	3000	3	106.340	6052703
DRL 150 DD	150	1.00	3000	3	145.670	6052706
DRL 200 DD	200	1.00	3000	3	185.000	6052709
DRL 300 DD	300	1.00	3000	3	263.340	6052712
DRL 400 DD	400	1.00	3000	3	342.070	6052715
DRL 500 DD	500	1.25	3000	3	626.670	6052718
DRL 550 DD	550	1.25	3000	3	685.340	6052721
DRL 600 DD	600	1.25	3000	3	744.570	6052724
DRL 050 FT	50	0.75	3000	3	66.970	6051332
DRL 100 FT	100	0.75	3000	3	106.670	6051340
DRL 150 FT	150	1.00	3000	3	159.340	6051359
DRL 200 FT	200	1.00	3000	3	202.670	6051367
DRL 300 FT	300	1.00	3000	3	289.000	6051383
DRL 400 FT	400	1.50	3000	3	542.000	6051413
DRL 500 FT	500	1.50	3000	3	667.670	6051448
DRL 600 FT	600	1.50	3000	3	793.000	6051472
DRL 100 A2	100	1.00	3000	3	105.070	6052878
DRL 150 A2	150	1.00	3000	3	144.400	6052886
DRL 200 A2	200	1.00	3000	3	183.500	6052894
DRL 300 A2	300	1.00	3000	3	262.250	6052908
DRL 400 A2	400	1.00	3000	3	340.400	6052932
DRL 500 A2	500	1.25	3000	3	625.340	6052959
DRL 600 A2	600	1.25	3000	3	743.240	6052975
DRL 150 A4	150	1.00	3000	6	144.400	6052982
DRL 200 A4	200	1.00	3000	3	183.570	6052981
DRL 300 A4	300	1.00	3000	3	262.240	6052983
DRL 400 A4	400	1.00	3000	3	341.240	6052984
DRL 500 A4	500	1.25	3000	3	624.900	6052985
DRL 600 A4	600	1.25	3000	3	743.240	6052986

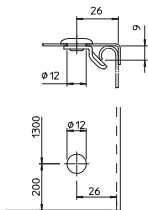
■ St Steel
 ■ V2A Stainless steel, A2
 ■ V4A Stainless steel, A4
■ FS Strip-galvanised
 ■ FT Hot-dip galvanised
 ■ DD Strip galvanised zinc/aluminium, double dip

Transverse bead from 500 mm width.

Cover for cable trays and cable ladders with turn buckles.

When using covers outdoors, additional measures against the influence of wind must be taken.

Turn buckle



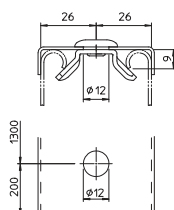
Type	Pack. pcs	Weight kg/100 pcs	Item No.
DRL 311 FT	20	1.300	6065007

■ 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.

Turn buckle



Type	Pack. pcs	Weight kg/100 pcs	Item No.
DRL 311 2 FT	20	1.700	6065147

■ St Steel
■ FT Hot-dip galvanised

Turn-buckle on both sides. Use for cover width of 50 mm.

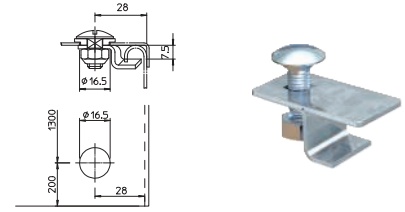
Turn-buckle for additional installation or installation at a later date.

Turn buckle

Type	Pack. pcs.	Weight		Item No.
		kg/100 pcs.	pcs.	
DRLM 316 DD	10	2.800	6222366	
DRLM 316 A2	10	2.800	6222358	

St Steel **V2A** Stainless steel, A2
DD Strip galvanised zinc/aluminium, double dip

Use for cover widths of 50–600 mm.
 Turn buckle for additional installation or installation at a later date.

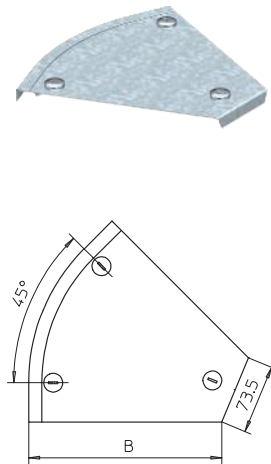


Cover for 45° bend

Type	Width mm	Plate thickness mm	Pack. pcs.	Weight		Item No.
				kg/100 pcs.	pcs.	
DFB 45 100 FS	100	1.00	1	16.600	7128819	
DFB 45 150 FS	150	1.00	1	24.600	7128827	
DFB 45 200 FS	200	1.00	1	34.600	7128835	
DFB 45 300 FS	300	1.00	1	57.600	7128851	
DFB 45 050 DD	50	1.00	1	23.000	7131801	
DFB 45 100 DD	100	1.00	1	16.600	7131828	
DFB 45 150 DD	150	1.00	1	24.600	7131836	
DFB 45 200 DD	200	1.00	1	34.600	7131844	
DFB 45 300 DD	300	1.00	1	57.600	7131860	
DFB 45 100 A2	100	1.00	1	14.000	7133901	
DFB 45 200 A2	200	1.00	1	35.000	7133928	
DFB 45 300 A2	300	1.00	1	55.000	7133936	
DFB 45 100 A4	100	1.00	1	14.000	7133984	
DFB 45 200 A4	200	1.00	1	35.000	7133986	
DFB 45 300 A4	300	1.00	1	55.000	7133988	

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4
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.

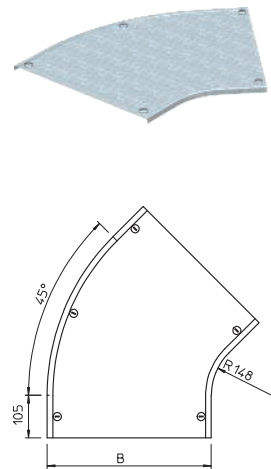


Cover for 45° bend

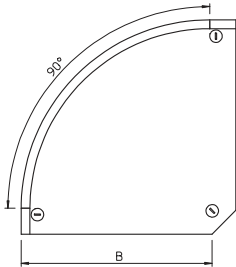
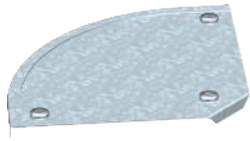
Type	Dimension B mm	Plate thickness mm	Pack. pcs.	Weight		Item No.
				kg/100 pcs.	pcs.	
DFB 45 400 FS	400	1.25	1	197.600	7128886	
DFB 45 500 FS	500	1.25	1	252.800	7128908	
DFB 45 550 FS	550	1.25	1	282.700	7128916	
DFB 45 600 FS	600	1.25	1	314.100	7128924	
DFB 45 400 DD	400	1.25	1	197.600	7131879	
DFB 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	
DFB 45 400 A2	400	1.25	1	142.500	7133944	
DFB 45 600 A2	600	1.25	1	230.000	7133979	
DFB 45 400 A4	400	1.25	1	230.000	7133990	
DFB 45 500 A4	500	1.25	1	320.000	7133992	
DFB 45 600 A4	600	1.25	1	420.000	7133994	

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4
FS Strip-galvanised **GB** Stained **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 90° bend



Type	Dimen- sion B mm	Plate thickness mm	Weight		Item No.
			Pack. pcs.	kg/100 pcs.	
DFB 90 100 FS	100	1.00	1	21.400	7129610
DFB 90 150 FS	150	1.00	1	37.600	7129629
DFB 90 200 FS	200	1.00	1	54.200	7129637
DFB 90 300 FS	300	1.00	1	96.400	7129653
DFB 90 050 DD	50	1.00	1	47.300	7130503
DFB 90 100 DD	100	1.00	1	21.400	7130511
DFB 90 150 DD	150	1.00	1	37.600	7130538
DFB 90 200 DD	200	1.00	1	54.200	7130546
DFB 90 300 DD	300	1.00	1	96.400	7130562
DFB 90 100 A2	100	1.00	1	65.000	7134908
DFB 90 200 A2	200	1.00	1	55.000	7134916
DFB 90 300 A2	300	1.00	1	95.000	7134924
DFB 90 100 A4	100	1.00	1	65.000	7134982
DFB 90 200 A4	200	1.00	1	55.000	7134988
DFB 90 300 A4	300	1.00	1	95.000	7134990

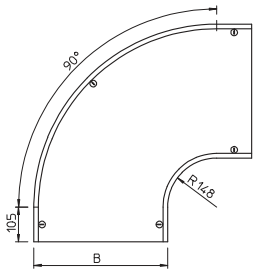
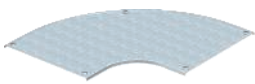
St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4

FS Strip-galvanised **GB** Stained **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



Type	Dimen- sion B mm	Plate thickness mm	Weight		Item No.
			Pack. pcs.	kg/100 pcs.	
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
DFB 90 400 A2	400	1.25	1	275.000	7134932
DFB 90 500 A2	500	1.25	1	470.000	7134940
DFB 90 600 A2	600	1.25	1	588.000	7134967
DFB 90 400 A4	400	1.25	1	335.000	7134992
DFB 90 500 A4	500	1.25	1	450.000	7134994
DFB 90 600 A4	600	1.25	1	580.000	7134996

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4

FS Strip-galvanised **GB** Stained **DD** Strip galvanised zinc/aluminium, double dip

The cover can be used with fittings of all side heights.

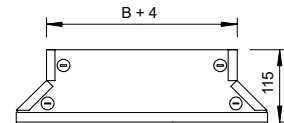
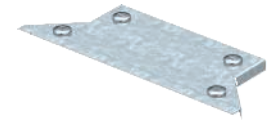
Cover for 90° bend with pre-mounted turn buckles.

Cover for add-on tee

Type	Width mm	Plate thickness mm	Weight		Item No.
			Pack. pcs.	kg/100 pcs.	
DFAA 100 FS	100	1.00	1	19.000	7128428
DFAA 150 FS	150	1.00	1	24.000	7128436
DFAA 200 FS	200	1.00	1	28.000	7128444
DFAA 300 FS	300	1.00	1	37.000	7128460
DFAA 050 DD	50	1.00	1	14.000	7131291
DFAA 100 DD	100	1.00	1	19.000	7131305
DFAA 150 DD	150	1.00	1	24.000	7131310
DFAA 200 DD	200	1.00	1	28.000	7131321
DFAA 300 DD	300	1.00	1	37.000	7131348
DFAA 100 A2	100	1.00	1	52.000	7136900
DFAA 200 A2	200	1.00	1	72.000	7136919
DFAA 300 A2	300	1.00	1	92.000	7136927
DFAA 200 A4	200	1.00	1	28.000	7136921
DFAA 300 A4	300	1.00	1	37.000	7136929

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4
 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.

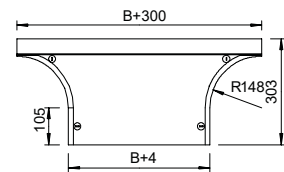
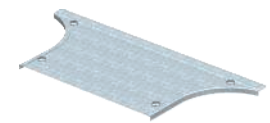


Cover for add-on tee

Type	Dimen- sion B mm	Plate thickness mm	Weight		Item No.
			Pack. pcs.	kg/100 pcs.	
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
DFAA 400 A2	400	1.25	1	111.500	7136935
DFAA 500 A2	500	1.25	1	159.000	7136943
DFAA 600 A2	600	1.25	1	183.500	7136978
DFAA 400 A4	400	1.25	1	152.000	7136937
DFAA 500 A4	500	1.25	1	172.000	7136944
DFAA 600 A4	600	1.25	1	202.000	7136980

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4
 FS Strip-galvanised GB Stained 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.

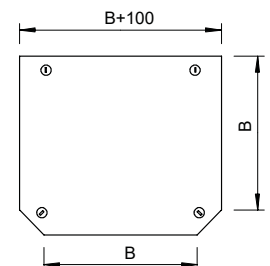
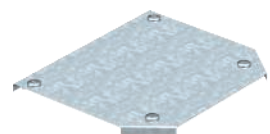


Cover for Tee

Type	Width mm	Plate thickness mm	Weight		Item No.
			Pack. pcs.	kg/100 pcs.	
DFT 100 FS	100	1.00	1	30.400	7128215
DFT 150 FS	150	1.00	1	40.000	7128223
DFT 200 FS	200	1.00	1	60.000	7128231
DFT 300 FS	300	1.00	1	115.000	7128266
DFT 050 DD	50	1.00	1	15.000	7129300
DFT 100 DD	100	1.00	1	27.000	7129319
DFT 150 DD	150	1.00	1	45.000	7129327
DFT 200 DD	200	1.00	1	65.000	7129335
DFT 300 DD	300	1.00	1	125.000	7129351

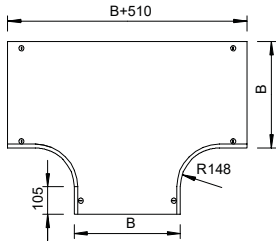
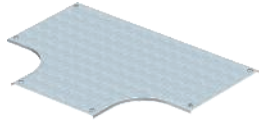
St Steel
 FS Strip-galvanised DD Strip galvanised zinc/aluminium,double dip

The cover can be used with fittings of all side heights.
 Cover for tee with pre-mounted turn-buckle.



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Cover for Tee



Type	Plate		Pack.	Weight		Item No.
	Width mm	thickness mm		pcs.	kg/100 pcs.	
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	

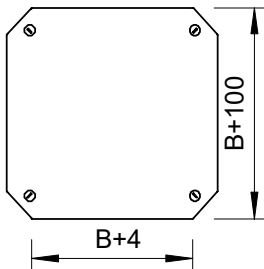
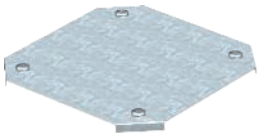
St Steel

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 cross-over



Type	Plate		Pack.	Weight		Item No.
	Width mm	thickness mm		pcs.	kg/100 pcs.	
DFK 100 FS	100	1.25	1	30.000	7128614	
DFK 150 FS	150	1.25	1	45.000	7128622	
DFK 200 FS	200	1.25	1	70.000	7128630	
DFK 300 FS	300	1.25	1	125.000	7128657	
DFK 100 DD	100	1.25	1	33.000	7131089	
DFK 200 DD	200	1.25	1	77.000	7131100	
DFK 300 DD	300	1.25	1	137.000	7131127	

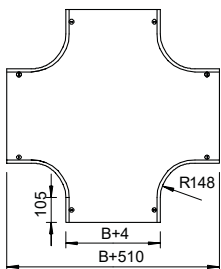
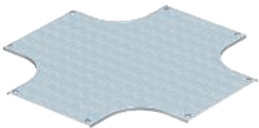
St Steel

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



Type	Plate		Pack.	Weight		Item No.
	Width mm	thickness mm		pcs.	kg/100 pcs.	
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

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.

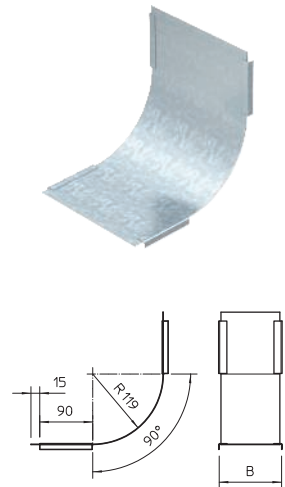
Cover for 90° vertical bend, rising

Type	Dimension B 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
DBV 100 S A2	100	0.75	1	34.000	7130905
DBV 150 S A2	150	0.75	1	50.000	7130906
DBV 200 S A2	200	0.75	1	39.000	7130907
DBV 300 S A2	300	0.75	1	49.000	7130909
DBV 400 S A2	400	0.75	1	68.000	7130911
DBV 500 S A2	500	0.75	1	86.000	7130913
DBV 600 S A2	600	0.75	1	105.000	7130915
DBV 100 S A4	100	0.75	1	21.000	7130920
DBV 200 S A4	200	0.75	1	39.000	7130922
DBV 300 S A4	300	0.75	1	49.000	7130924
DBV 400 S A4	400	0.75	1	68.000	7130926
DBV 500 S A4	500	0.75	1	86.000	7130928
DBV 600 S A4	600	0.75	1	105.000	7130930

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4
 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.

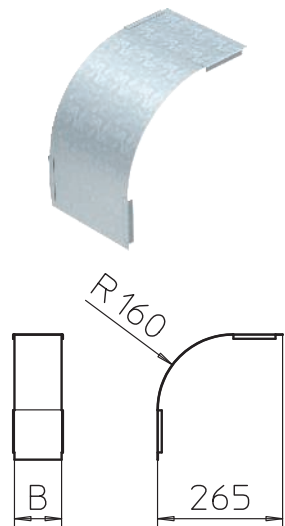


Cover for 90° vertical bend, falling, side height 35 mm

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBV 35 050 F FS	50	0.75	1	13.000	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 FS Strip-galvanised DD Strip galvanised zinc/aluminium, double dip

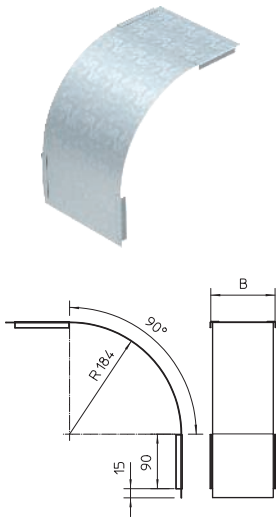
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.



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Cable tray systems

Cover for 90° vertical bend, falling, side height 60 mm



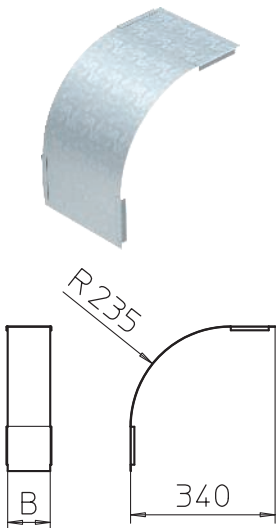
Type	Dimension B mm	Plate thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
DBV 60 050 F FS	50	0.75	1	14.000	7130847
DBV 60 100 F FS	100	0.75	1	25.000	7130852
DBV 60 150 F FS	150	0.75	1	37.000	7130856
DBV 60 200 F FS	200	0.75	1	49.000	7130860
DBV 60 300 F FS	300	0.75	1	73.000	7130864
DBV 60 400 F FS	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
DBV 60 100 F A2	100	0.75	1	25.000	7130952
DBV 60 150 F A2	150	0.75	1	62.000	7130953
DBV 60 200 F A2	200	0.75	1	49.000	7130954
DBV 60 300 F A2	300	0.75	1	73.000	7130956
DBV 60 400 F A2	400	0.75	1	96.000	7130958
DBV 60 500 F A2	500	0.75	1	120.000	7130960
DBV 60 600 F A2	600	0.75	1	143.000	7130962
DBV 60 100 F A4	100	0.75	1	25.000	7130972
DBV 60 200 F A4	200	0.75	1	49.000	7130974
DBV 60 300 F A4	300	0.75	1	73.000	7130976
DBV 60 400 F A4	400	0.75	1	96.000	7130978
DBV 60 500 F A4	500	0.75	1	120.000	7130980
DBV 60 600 F A4	600	0.75	1	143.000	7130982

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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 90° vertical bend, falling, side height 85 mm



Type	Dimension B 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	77.800	7130998
DBV 85 400 F FS	400	0.75	1	103.200	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	129.700	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

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.

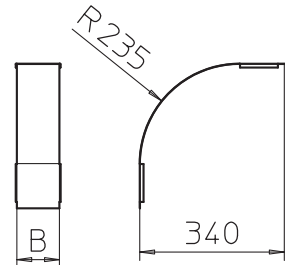
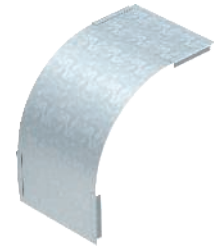
Cover for 90° vertical bend, falling, side height 110 mm

Type	Dimension B 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

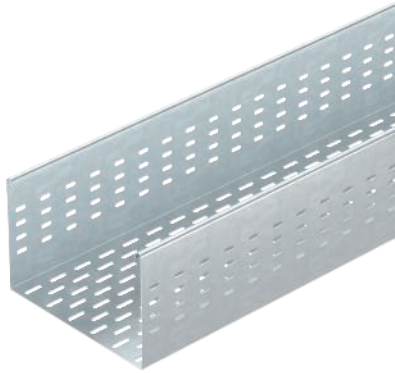
FS Strip-galvanised DD Strip galvanised zinc/aluminium,double dip

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.



Side height 200 mm

Mobile radio tray MFR



Type	Width mm	Plate thickness mm	Pack. Weight		Item No.
			m	kg/100 m	
MFR 220 FT	200	1.50	3	721.467	6083056
MFR 230 FT	300	1.50	3	825.767	6083060
MFR 240 FT	400	1.50	3	930.066	6083064

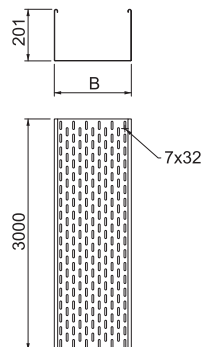
St Steel

FT Hot-dip galvanised

Magnetic shield insulation without cover 20 dB, with cover 50 dB.

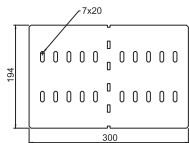
MFR = mobile radio tray

Dimensions



Type	Length mm	Dimen- sion B mm	Useful cross- section cm ²
MFR 230 FT	3000	300	600
MFR 240 FT	3000	400	800

Straight and angle connector



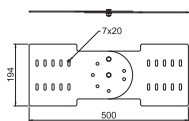
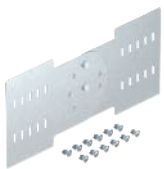
Type	Side height mm	Weight		Item No.
		Pack. pcs	kg/100 pcs.	
LWVM 200 FT	200	2	97.800	6083200

St Steel

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



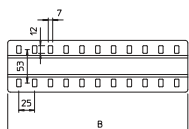
Type	Side height mm	Weight		Item No.
		Pack. pcs	kg/100 pcs.	
GVM 200 FT	200	2	189.000	6083210

St Steel

FT Hot-dip galvanised

Adjustable connector for vertically rounded connections for cable trays (FT) with a side height of 200 mm.

Joint plate



Type	Dimen- sion B mm	Weight		Item No.
		Pack. pcs	kg/100 pcs.	
SSLB 200 DD	200	20	16.700	7070314
SSLB 300 DD	300	20	25.700	7070318
SSLB 400 DD	400	20	34.700	7070322

St Steel

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

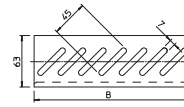
Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BEB 200 DD	200	100	11.400	7083626
BEB 300 DD	300	100	17.200	7083630
BEB 400 DD	400	100	23.100	7083634

St Steel

DD Strip galvanised zinc/aluminium, double dip

For fastening, please order screws, type FRSB M6x12, separately.

Bottom end plate for floor reinforcement at the ends of the cable tray and as cable protection.



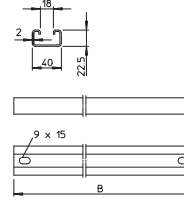
MS4022 profile rail, heavy-duty, slot 18 mm

Type	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MS4022P0192FT	2	192	10	31.800	6007201
MS4022P0292FT	2	292	10	44.700	6007228
MS4022P0392FT	2	392	10	60.100	6007236

St Steel

FT Hot-dip galvanised

Profile rail MS4022 for use as rung in heavy-duty ladders.



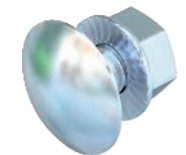
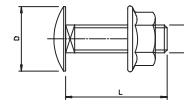
Truss-head bolt with flange nut

Type	Dimension mm	Dimension L mm	Dimension d mm	Dimension 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	M 6 x 30	30	6	13.5	100	1.200	6406907

St Steel

F Hot-dip galvanised

Truss-head bolt with square neck including flange nut.



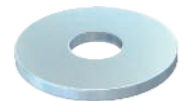
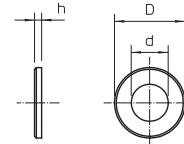
Large washer

Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN440 7 F	M6	6.6	22	2	100	0.550	6408702

St Steel

F Hot-dip galvanised

Washer of particularly large outer diameter.



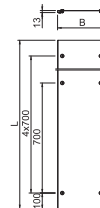
Cover with turn buckle

Type	Dimension B mm	Plate thickness mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
DMFR 200 FT	200	1.00	3000	3	204.740	6083150
DMFR 300 FT	300	1.50	3000	3	407.970	6083152
DMFR 400 FT	400	1.50	3000	3	543.840	6083154

St Steel

FT Hot-dip galvanised

Cover for mobile radio tray with five pairs of turn buckles.





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Cable tray systems, walk-on

	Cable tray BKRS, side height 100 mm	252
	Cable tray BKRS, side height 110 mm	255
	System accessories BKRS	258
	Mounting systems, BKRS	261

Cable tray BKRS, side height 100 mm



Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
BKRS 1010 FS	100	2.00	3	485.670	6062000
BKRS 1020 FS	200	2.00	3	636.070	6062002
BKRS 1030 FS	300	2.00	3	789.040	6062004
BKRS 1040 FS	400	2.00	3	936.670	6062006
BKRS 1050 FS	500	2.00	3	1,086.970	6062008
BKRS 1060 FS	600	2.00	3	1,237.270	6062010

Sl Steel

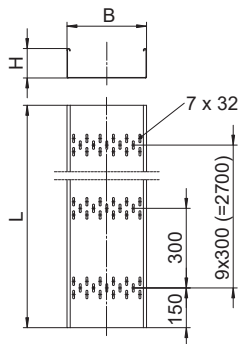
FS Strip-galvanised

The cable tray has connector perforations on both sides.

Straight connectors should be ordered separately and in the appropriate quantity.

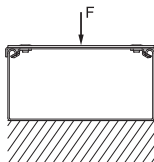
Heavy-duty, walkable cable tray system BKRS with base perforation, in 100 mm side height.

Dimensions



Type	Dimen- sion L mm	Dimen- sion B mm	Dimen- sion H mm	Plate thickness mm	Useful cross- section cm ²
BKRS 1010 FS	3000	100	100	2.00	84
BKRS 1020 FS	3000	200	100	2.00	171
BKRS 1030 FS	3000	300	100	2.00	258
BKRS 1040 FS	3000	400	100	2.00	345
BKRS 1050 FS	3000	500	100	2.00	432
BKRS 1060 FS	3000	600	100	2.00	519

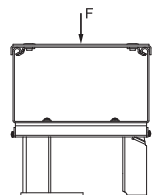
Installation



Floor mounting

Type	Support spacing in m	Cover with panel thickness 2 mm Approved load in kN/m	Cover with panel thickness 4 mm Approved load in kN/m	Cover with panel thickness 6 mm Approved load in kN/m
BKRS 1010	-	5.1	7.0	9.0
BKRS 1020	-	5.1	7.0	9.0
BKRS 1030	-	3.5 *	6.0 *	7.0 *
BKRS 1040	-	3.5 *	6.0 *	7.0 *
BKRS 1050	-	3.5 *	6.0 *	7.0 *
BKRS 1060	-	3.5 *	6.0 *	7.0 *

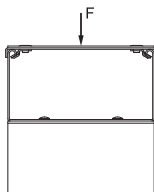
Testing of the footfall load according to DIN EN 50085-2-2



Installation on support bracket

Type	Support spacing in m	Cover with panel thickness 2 mm Approved load in kN/m	Cover with panel thickness 4 mm Approved load in kN/m	Cover with panel thickness 6 mm Approved load in kN/m
BKRS 1010	1.2	4.9	4.9	4.9
BKRS 1020	1.2	4.6	4.6	4.6
BKRS 1030	1.2	4.2 *	4.2 *	4.2 *
BKRS 1040	1.2	3.2 *	3.2 *	3.2 *
BKRS 1050	1.2	2.9 *	2.9 *	2.9 *
BKRS 1060	1.2	2.5 *	2.5 *	2.5 *

Supplementary bracket, type STE BKS FS, from 400 mm width



Installation on Z profile

Type	Support spacing in m	Cover with panel thickness 2 mm Approved load in kN/m	Cover with panel thickness 4 mm Approved load in kN/m	Cover with panel thickness 6 mm Approved load in kN/m
BKRS 1010	1.2	4.9	4.9	4.9
BKRS 1020	1.2	4.6	4.6	4.6
BKRS 1030	1.2	4.2 *	4.2 *	4.2 *
BKRS 1040	1.2	3.2 *	3.2 *	3.2 *
BKRS 1050	1.2	2.9 *	2.9 *	2.9 *
BKRS 1060	1.2	2.5 *	2.5 *	2.5 *

*In order to archive the maximum permitted load, Z-shaped barrier strips must be placed in cable trays W > 200 mm. The distance of the barrier strip to the side rail respectively to the next barrier strip of type TSG100Z must not exceed 220 mm.

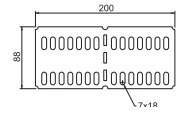
Straight and angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
RLVL 100 FS	100	10	23.200	6067870

- 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 mm

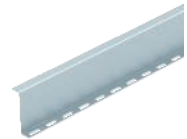
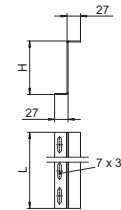
Type	Dimension H mm	Plate thickness mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG100Z BKRS FS	100	2.00	3000	3	217.440	6062390

- St Steel
- FS Strip-galvanised

For widths of 200 mm or more, a barrier strip with a maximum compartment size of 220 mm should be used.

For widths of 500 mm or more, two barrier strip with a maximum compartment size of 220 mm should be used.

Barrier strip for the BKRS walkable cable tray system. Attachment with truss-head bolts M 6 x 12 in the base perforation.



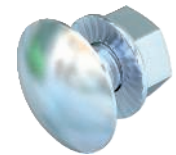
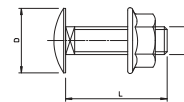
Truss-head bolt with flange nut

Type	Dimension mm	Dimension L mm	Dimension d mm	Dimension 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
- 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 combination nut.



Anti-slip strip

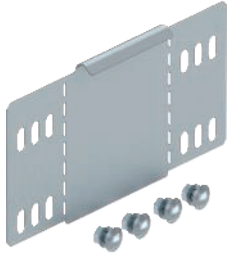
Type	Pack. m	Weight kg/100 m	Item No.
ARS BKR	11	10.070	6049259

- GUM Rubber

Self-adhesive, anti-slip strip to stick onto the Z-shaped barrier in walkable cable trays, for securing laid-on but not yet attached covers.



Reducing bracket/end closure



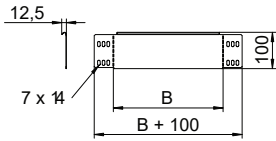
Type	Side height mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs	Item No.
RWEB 1010 FS	100	100	1	13.600	7111802
RWEB 1020 FS	100	200	1	22.100	7111804
RWEB 1030 FS	100	300	1	30.600	7111806
RWEB 1040 FS	100	400	1	39.100	7111808
RWEB 1050 FS	100	500	1	47.600	7111810
RWEB 1060 FS	100	600	1	56.100	7111812

St Steel

FS Strip-galvanised

Including appropriate fastening material.

Reducer/stop-end for cable trays with side height 100 mm.



Cable tray BKRS, side height 110 mm

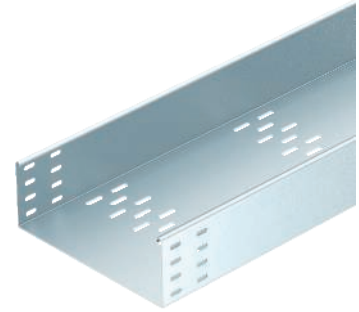


Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
BKRS 1110 FS	100	2.00	3	526.000	6061981
BKRS 1120 FS	200	2.00	3	676.340	6061983
BKRS 1130 FS	300	2.00	3	826.670	6061985
BKRS 1140 FS	400	2.00	3	977.000	6061987
BKRS 1150 FS	500	2.00	3	1,127.340	6061989
BKRS 1160 FS	600	2.00	3	1,283.620	6061991

Sl Steel

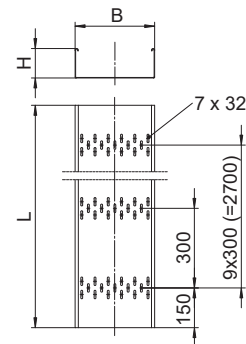
FS Strip-galvanised

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.



Type	Dimen- sion L mm	Dimen- sion B mm	Dimen- sion H mm	Plate thickness mm	Useful cross- section cm ²
BKRS 1110 FS	3000	100	110	2.00	96
BKRS 1120 FS	3000	200	110	2.00	196
BKRS 1130 FS	3000	300	110	2.00	296
BKRS 1140 FS	3000	400	110	2.00	396
BKRS 1150 FS	3000	500	110	2.00	496
BKRS 1160 FS	3000	600	110	2.00	596

Dimensions

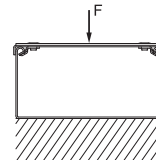


Installation

Floor mounting

Type	Support spacing in m	Cover with panel thickness 3.3 mm Approved load in kN/m	Cover with panel thickness 4 mm Approved load in kN/m	Cover with panel thickness 6 mm Approved load in kN/m
BKRS 1110	-	5.1	7.0	9.0
BKRS 1120	-	5.1	7.0	9.0
BKRS 1130	-	3.5 *	6.0 *	7.0 *
BKRS 1140	-	3.5 *	6.0 *	7.0 *
BKRS 1150	-	3.5 *	6.0 *	7.0 *
BKRS 1160	-	3.5 *	6.0 *	7.0 *

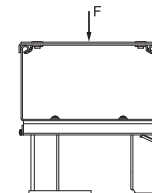
Testing of the footfall load according to DIN EN 50085-2-2



Installation on support bracket

Type	Support spacing in m	Cover with panel thickness 2 mm Approved load in kN/m	Cover with panel thickness 4 mm Approved load in kN/m	Cover with panel thickness 6 mm Approved load in kN/m
BKRS 1110	1.2	4.9	4.9	4.9
BKRS 1120	1.2	4.6	4.6	4.6
BKRS 1130	1.2	4.2 *	4.2 *	4.2 *
BKRS 1140	1.2	3.2 *	3.2 *	3.2 *
BKRS 1150	1.2	2.9 *	2.9 *	2.9 *
BKRS 1160	1.2	2.5 *	2.5 *	2.5 *

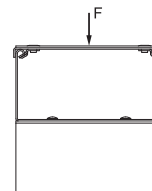
Supplementary bracket, type STE BKS FS, from 400 mm width



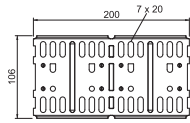
Installation on Z profile

Type	Support spacing in m	Cover with panel thickness 2 mm Approved load in kN/m	Cover with panel thickness 4 mm Approved load in kN/m	Cover with panel thickness 6 mm Approved load in kN/m
BKRS 1110	1.2	4.9	4.9	4.9
BKRS 1120	1.2	4.6	4.6	4.6
BKRS 1130	1.2	4.2 *	4.2 *	4.2 *
BKRS 1140	1.2	3.2 *	3.2 *	3.2 *
BKRS 1150	1.2	2.9 *	2.9 *	2.9 *
BKRS 1160	1.2	2.5 *	2.5 *	2.5 *

*In order to archive the maximum permitted load, Z-shaped barrier strips must be placed in cable trays W > 200 mm. The distance of the barrier strips to the side rail respectively to the next barrier strips of type TSG110Z must not exceed 220 mm.



Straight and angle connector

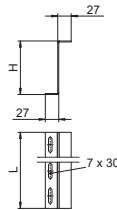


Type	Side height mm	Pack.		Weight kg/100 pcs.	Item No.
		pcs.	kg/100 pcs.		
RLVL 110 FS	110	10	33.800		6067131

- 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 mm

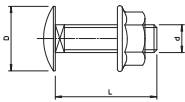
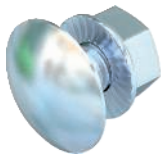


Type	Dimension H mm	Plate thickness mm	Dimension L mm	Pack.		Weight kg/100 m	Item No.
				m	kg/100 m		
TSG110Z BKRS FS	110	2.00	3000	3	239.400		6062391

- St** Steel
- FS** Strip-galvanised

For widths of 200 mm or more, a barrier strip with a maximum compartment size of 220 mm should be used.
For widths of 500 mm or more, two barrier strip with a maximum compartment size of 220 mm should be used.
Barrier strip for the BKRS walkable cable tray system. Attachment with truss-head bolts M 6 x 12 in the base perforation.

Truss-head bolt with flange nut



Type	Dimension mm	Dimension L mm	Dimension d mm	Dimension D mm	Pack.		Weight kg/100 pcs.	Item No.
					pcs.	kg/100 pcs.		
FRSB 6x12 G	M 6 x 12	12	6	13.5	100	0.796		6406130

- 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 combination nut.

Anti-slip strip



Type	Pack.		Weight kg/100 m	Item No.
	m	kg/100 m		
ARS BKR	11	10.070		6049259

- GUM** Rubber

Self-adhesive, anti-slip strip to stick onto the Z-shaped barrier in walkable cable trays, for securing laid-on but not yet attached covers.

Reducing bracket/end closure

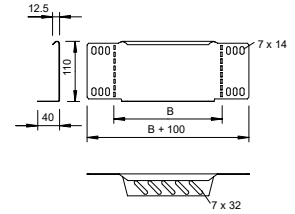
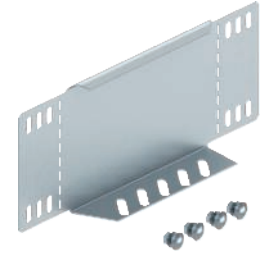
Type	Side height mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWEB 110 FS	110	100	1	16.400	7111096
RWEB 120 FS	110	200	1	29.000	7111207
RWEB 130 FS	110	300	1	40.700	7111304
RWEB 140 FS	110	400	1	52.900	7111428
RWEB 150 FS	110	500	1	64.800	7111509
RWEB 160 FS	110	600	1	71.000	7111740

St Steel

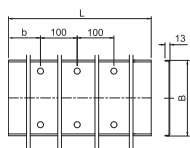
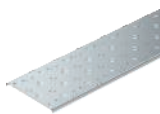
FS Strip-galvanised

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.



Chequer plate cover DBKR



Type	Dimen- sion B mm	Dimen- sion b mm	Dimen- sion L mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
DBKR 100 FS	100	100	3000	3.30	3	195.070	6049119
DBKR 200 FS	200	50	3000	3.30	3	352.070	6049121
DBKR 300 FS	300	100	3000	3.30	3	509.070	6049123
DBKR 400 FS	400	50	3000	3.30	3	666.070	6049125
DBKR 500 FS	500	100	3000	3.30	3	823.070	6049127
DBKR 600 FS	600	50	3000	3.30	3	980.070	6049129

St Steel

FS Strip-galvanised

Chequer plate cover for the walkable cable tray system, type BKR.

The cover thickness is comprised of 2.0 mm of strip-galvanised sheet steel and 1.3 mm chequer height.

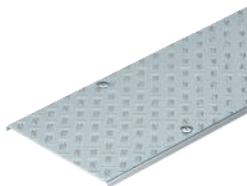
Premarked break-out openings at a spacing of 100 mm allow reinstallation of a turn buckle.

When using covers outdoors, additional measures against the influence of wind must be taken.

The covers are tested according to DIN51130 and possess anti-slip class R11 and displacement space class V10.

Cover fastenings are not part of the scope of delivery and can be ordered separately.

Cover with chequer plate and sturn buckle, turn buckle spacing 500 mm

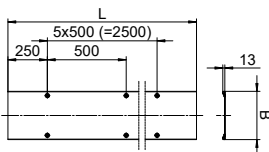


Type	Dimen- sion B mm	Dimen- sion L mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
DF BKR10 FS AL	100	3000	6.00	3	272.330	6049181
DF BKR20 FS AL	200	3000	6.00	3	503.670	6049183
DF BKR30 FS AL	300	3000	6.00	3	735.000	6049185
DF BKR40 FS AL	400	3000	6.00	3	966.670	6049187
DF BKR50 FS AL	500	3000	6.00	3	1,197.670	6049189
DF BKR60 FS AL	600	3000	6.00	3	1,429.000	6049191

Alu/St Aluminium/Steel

Cable tray cover for the walkable 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 with chequer plate and turn buckle, turn buckle spacing 1,000 mm

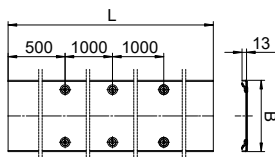


Type	Dimen- sion B mm	Dimen- sion L mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
DF BKR10 10 FSAL	100	3000	6.00	3	274.570	6049200
DF BKR20 10 FSAL	200	3000	6.00	3	505.900	6049202
DF BKR30 10 FSAL	300	3000	6.00	3	737.240	6049204
DF BKR40 10 FSAL	400	3000	6.00	3	968.570	6049206
DF BKR50 10 FSAL	500	3000	6.00	3	1,199.900	6049208
DF BKR60 10 FSAL	600	3000	6.00	3	1,431.240	6049210

Alu/St Aluminium/Steel

Cable tray cover for the walkable 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 1,000 mm.

When using covers outdoors, additional measures against the influence of wind must be taken.



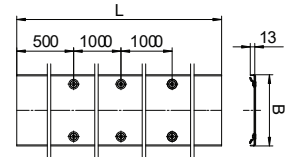
Cover with chequer plate and turn buckle, turn buckle spacing 1,000 mm

Type	Dimension B mm	Dimension L mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
DF BKR1010 4FSAL	100	3000	4.00	3	243.000	6049110
DF BKR2010 4FSAL	200	3000	4.00	3	442.340	6049111
DF BKR3010 4FSAL	300	3000	4.00	3	642.000	6049112
DF BKR4010 4FSAL	400	3000	4.00	3	841.340	6049113
DF BKR5010 4FSAL	500	3000	4.00	3	1,041.000	6049114
DF BKR6010 4FSAL	600	3000	4.00	3	1,240.340	6049115

Alu/St Aluminium/Steel

Cable tray cover for the walkable 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 1,000 mm.

When using covers outdoors, additional measures against the influence of wind must be taken.



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

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.



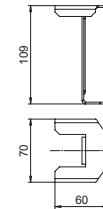
Cover support, side height 110 mm

Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
DST110 BKRS FS	109	10	11.200	6049256

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.

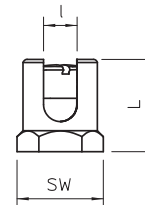


Earthing terminal with fastening thread

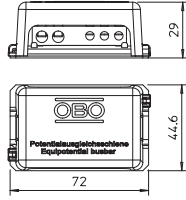
Type	Dimension L mm	Dimension I mm	Cross-section mm ²	Thread	Pack. pcs	Weight kg/100 pcs	Item No.
EKL 25 M6	22	8	25	M6	50	3.100	6404006
EKL 35 M6	26	10	35	M6	50	4.800	6404014

CuZn Brass

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



Equipotential bonding rail for small systems



Type

1809 BG

CuZn Brass

- Cover made of polystyrene, grey
- Sealable / labellable cover
- Base plate made of strip galvanised steel
- Contact strip and screws made of nickel-plated brass

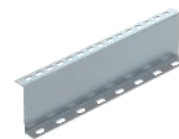
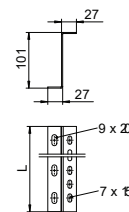
Connection options:

- 3 x multi-core cables to 6 mm²
- 2 x multi-core cables to 16 mm²

Pack. pcs	Weight kg/100		Item No.
	pcs.		
1	9.000		5015502

Support profile, side height 100 mm

Type	Dimension L mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs	Item No.
STP Z 1010 FS	100	2.00	1	22.500	6044581
STP Z 1020 FS	200	2.00	1	44.800	6044583
STP Z 1030 FS	300	2.00	1	67.200	6044585
STP Z 1040 FS	400	2.00	1	89.500	6044587
STP Z 1050 FS	500	2.00	1	111.800	6044589
STP Z 1060 FS	600	2.00	1	134.200	6044591
STP Z 10300 FS	3000	2.00	3	223.400	6044596

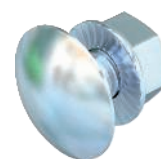
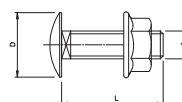


- Sl Steel
- FS Strip-galvanised

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.

Truss-head bolt with flange nut

Type	Dimension mm	Dimension L mm	Dimension d mm	Dimension 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



- Sl Steel
- G Electro-galvanised

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 combination nut.

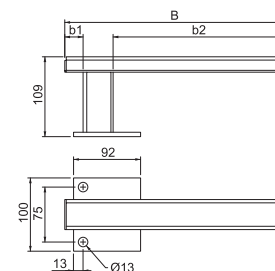
Support bracket

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



- Sl Steel
- FT Hot-dip galvanised

Support bracket for holding up the BKRS cable tray system from the floor.

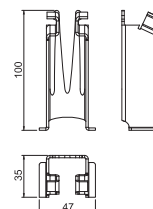


Support element BKS

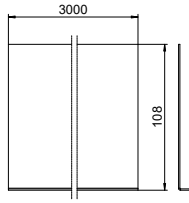
Type	Pack. pcs	Weight kg/100 pcs	Item No.
STE BKS FS	10	13.000	6044554

- Sl Steel
- FS Strip-galvanised

Additional support for support bracket for holding up the BKRS cable tray system from the floor.



Protective panel

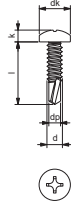


Type	Length Height Thickness			Pack.	Weight		Item No.
	mm	mm	mm		m	kg/100 m	
SB BKS FS	3000	108	1	3	91.670		6049252

- 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.

Drilling screw



Type	Dimension	Weight		Item No.
		Pack.	kg/100 pcs.	
BS BKS KP	M4,2x16	100	0.180	6049250

- St** Steel
- G** Electro-galvanised

Drilling screw according to DIN 7504.



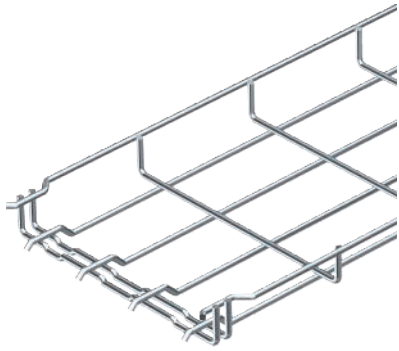


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Mesh cable tray systems

	GRM side height 35 mm	266
	GRM side height 55 mm	269
	GRM side height 105 mm	275
	Accessories for side height 35, 55, 105 mm	279
	Heavy-duty mesh cable tray	285
	G mesh cable tray Magic	286
	C mesh cable tray	290
	Mounting systems	295

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	159.000	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	165.334	6000075

S Steel

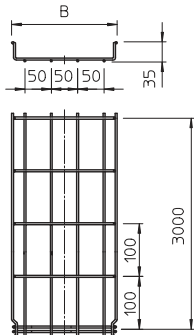
G Electrogalvanised **FT** Hot-dip galvanised

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.

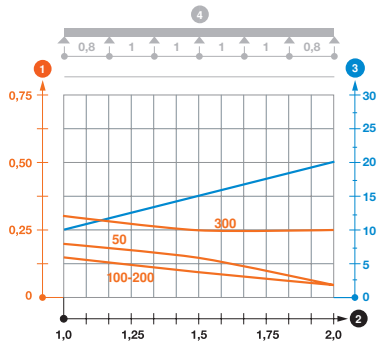
Magnetic shield insulation without cover 15 dB, with cover 25 dB.

Dimensions



Type	Length mm	Dimen- sion B mm	Wire Ø mm	Useful cross- section cm²
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	1.5 m	2.0 m
	kN/m	kN/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

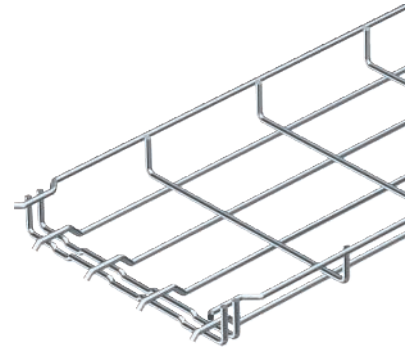
Mesh cable tray GR-Magic®

Type	Wire		Pack. m	Weight kg/100 m	Item No.
	Width mm	Ø mm			
GRM 35 50 A2	50	3.9	3	45.000	6000054
GRM 35 100 A2	100	3.9	3	49.000	6000055
GRM 35 150 A2	150	3.9	3	62.600	6000056
GRM 35 200 A2	200	3.9	3	76.300	6000057
GRM 35 300 A2	300	4.8	3	159.000	6000059
GRM 35 50 A4	50	3.9	3	44.620	6000086
GRM 35 100 A4	100	3.9	3	49.000	6000087
GRM 35 150 A4	150	3.9	3	62.600	6000089
GRM 35 200 A4	200	3.9	3	76.300	6000090
GRM 35 300 A4	300	4.8	3	159.000	6000091

V2A Stainless steel, A2 V4A Stainless steel, A4

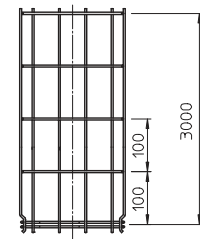
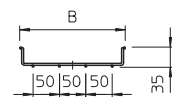
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 35/50 = 20 x 100 mm).

Mesh cable tray with shaped connector of side height 35 mm.

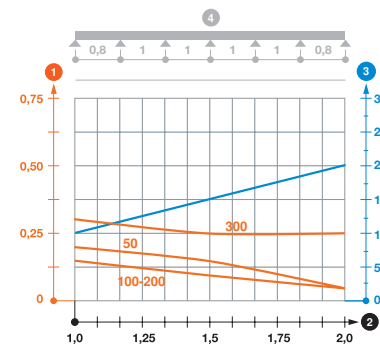


Type	Length mm	Dimension B mm	Wire Ø mm	Useful cross-section cm ²
GRM 35 100 A2	3000	100	3.9	35
GRM 35 150 A2	3000	150	3.9	52.5
GRM 35 200 A2	3000	200	3.9	70
GRM 35 300 A2	3000	300	4.8	105

Dimensions



Load



Type	Length		
	1.0 m	1.5 m	2.0 m
GRM 35 50 A2	0.25	0.11	0.1
GRM 35 100 A2	0.25	0.11	0.1
GRM 35 150 A2	0.25	0.11	0.1
GRM 35 200 A2	0.3	0.14	0.1
GRM 35 300 A2	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



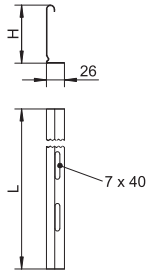
Barrier strip



Type	Dimension H mm	Plate thickness mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 30 FS	30	0.75	3000	3	38.000	6062050
TSG 30 DD	30	0.75	3000	3	38.000	6062314
TSG 30 A2	30	0.75	3000	3	37.670	6062052

St Steel **V2A** Stainless steel, A2
FS Strip-galvanised **DD** Strip galvanised zinc/aluminium, double dip

Barrier strip for separation of cables of different voltages or functions.



Separating retainer connector

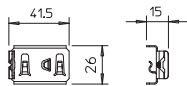


Type	Pack. pcs	Weight kg/100 pcs	Item No.
TSGV A2	10	0.923	6067970

V2A Stainless steel, A2

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Hold-down clamp for separating retainer fastening

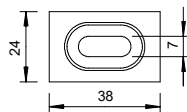
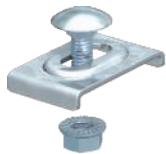


Type	Pack. pcs	Weight kg/100 pcs	Item No.
KS GR A2	30	0.830	6062282

V2A Stainless steel, A2

Hold-down clamp for fastening separating retainer in mesh cable trays.

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
GKT 38 A2	20	2.200	6017045
GKT 38 A4	10	2.200	6017092

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4
G Electrogalvanised **FT** Hot-dip galvanised

Including FRS M6 x 20 bolt with flange nut.

Clamp for fastening barrier strip in mesh cable trays.

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 55 300 F	300	4.8	3	191.100	6001050
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

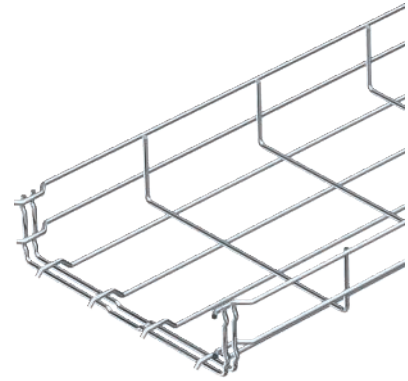
F Hot-dip galvanised G Electrogalvanised

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).

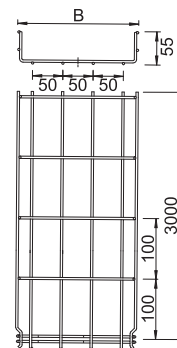
Description, surface F = pre-galvanised wires according to DIN EN 10244/2 (surface approx. 10 µm).

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

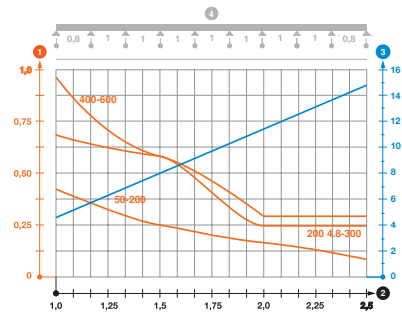


Load

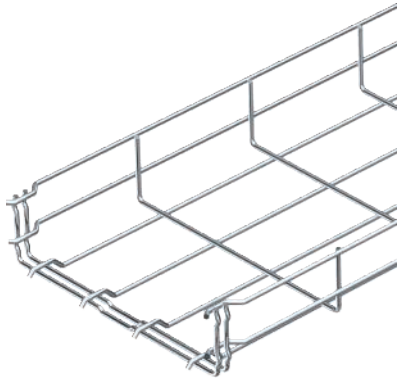
Type	Length			
	1.0 m	1.5 m	2.0 m	2.5 m
	kN/m	kN/m	kN/m	kN/m
GRM 55 100 F	0.35	0.2	0.1	0.1
GRM 55 150 F	0.35	0.2	0.1	0.1
GRM 55 300 F	0.7	0.5	0.25	0.2
GRM 55 500 F	0.9	0.6	0.3	0.25
GRM 55 600 F	0.9	0.6	0.3	0.25

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



Mesh cable tray GR-Magic®



Type	Wire		Pack. m	Weight kg/100 m	Item No.
	Width mm	Ø mm			
GRM 55 50 FT	50	3.9	3	72.334	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

SI Steel

FT Hot-dip galvanised

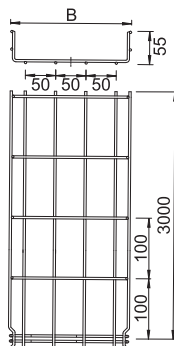
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 55/50 = 20 x 100 mm).

Mesh cable tray with shaped connector of side height 55 mm.

Magnetic shield insulation without lid 15 dB, with lid 25 dB.

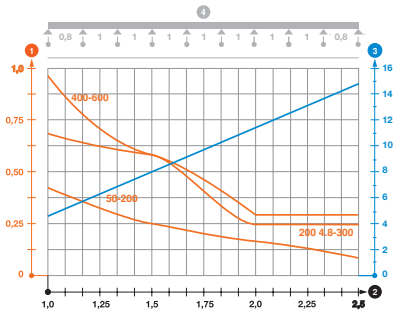
You can find detailed information regarding the UL classification in the respective certification.

Dimensions



Type	Length mm	Dimension B mm	Wire Ø mm	Useful cross-section cm ²
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 55 300 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	2.5 m kN/m
GRM 55 50 FT	0.35	0.2	0.1	0.1
GRM 55 100 FT	0.35	0.2	0.1	0.1
GRM 55 150 FT	0.35	0.2	0.1	0.1
GRM 55 200 FT	0.35	0.2	0.1	0.1
GRM 55 200 4.8FT	0.7	0.5	0.25	0.2
GRM 55 300 FT	0.7	0.5	0.25	0.2
GRM 55 400 FT	0.9	0.6	0.3	0.25
GRM 55 500 FT	0.9	0.6	0.3	0.25
GRM 55 600 FT	0.9	0.6	0.3	0.25

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

Mesh cable tray GR-Magic®

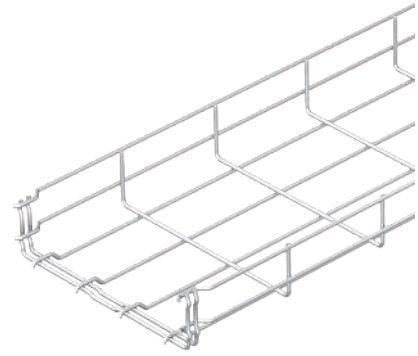
Type	Wire		Pack. m	Weight kg/100 m	Item No.
	Width mm	Ø mm			
GRM 55 50 A2	50	3.9	3	67.000	6001070
GRM 55 100 A2	100	3.9	3	72.666	6001072
GRM 55 150 A2	150	3.9	3	88.000	6001074
GRM 55 200 A2	200	3.9	3	99.000	6001076
GRM 55 300 A2	300	4.8	3	191.100	6001078
GRM 55 400 A2	400	4.8	3	243.000	6001080
GRM 55 500 A2	500	4.8	3	287.000	6001082
GRM 55 600 A2	600	4.8	3	331.000	6001085
GRM 55 50 A4	50	3.9	3	67.000	6001087
GRM 55 100 A4	100	3.9	3	72.666	6001088
GRM 55 150 A4	150	3.9	3	88.000	6001090
GRM 55 200 A4	200	3.9	3	99.000	6001091
GRM 55 300 A4	300	4.8	3	191.100	6001093
GRM 55 400 A4	400	4.8	3	243.000	6001095
GRM 55 500 A4	500	4.8	3	287.000	6001097
GRM 55 600 A4	600	4.8	3	331.000	6001099

V2A Stainless steel, A2 V4A Stainless steel, A4

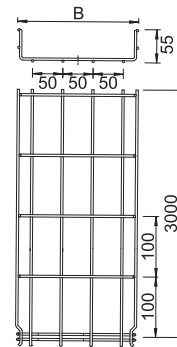
GB Stained

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.



Dimensions



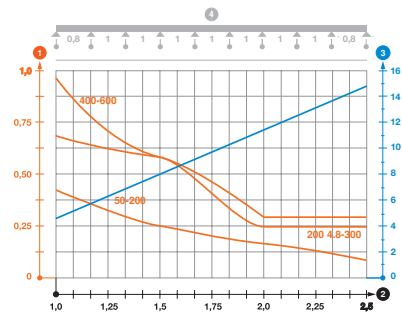
Load

Type	Length mm	Dimension B mm	Wire Ø mm	Useful cross-section cm ²
GRM 55 100 A2	3000	100	3.9	40
GRM 55 150 A2	3000	150	3.9	63
GRM 55 200 A2	3000	200	3.9	87
GRM 55 300 A2	3000	300	4.8	129
GRM 55 400 A2	3000	400	4.8	175
GRM 55 500 A2	3000	500	4.8	220
GRM 55 600 A2	3000	600	4.8	265

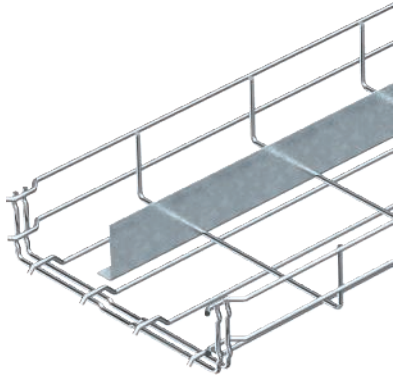
Type	1.0 m 1.5 m 2.0 m 2.5 m			
	kN/m	kN/m	kN/m	kN/m
GRM 55 50 A2	0.35	0.2	0.1	0.1
GRM 55 100 A2	0.35	0.2	0.1	0.1
GRM 55 150 A2	0.35	0.2	0.1	0.1
GRM 55 200 A2	0.35	0.2	0.1	0.1
GRM 55 300 A2	0.7	0.5	0.25	0.2
GRM 55 400 A2	0.9	0.6	0.3	0.25
GRM 55 500 A2	0.9	0.6	0.3	0.25
GRM 55 600 A2	0.9	0.6	0.3	0.25

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



Mesh cable tray GR-Magic® with barrier strip



Type	Wire		Pack. m	Weight kg/100 m	Item No.
	Length mm	Ø mm			
GRM-T 55 100 G	3000	3.9	3	116.500	6006453
GRM-T 55 200 G	3000	3.9	3	143.340	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

Si Steel

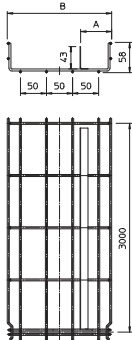
G Electrogalvanised

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.

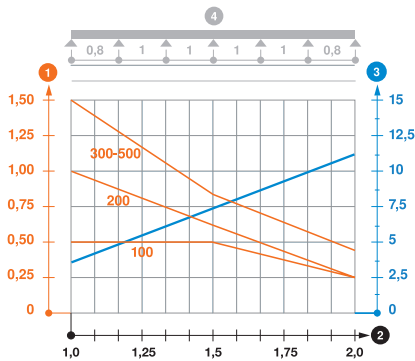
Magnetic shield insulation without cover 15 dB, with cover 25 dB.

Dimensions



Type	Length mm	Dimen- sion B mm	Wire Ø mm	Useful cross-section cm²
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	1.5 m	2.0 m
	kN/m	kN/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

Mesh cable tray GR-Magic® with barrier strip

Type	Length mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
GRM-2T 55 300 G	3000	4.8	3	289.867	6006396
GRM-2T 55 400 G	3000	4.8	3	327.934	6006397
GRM-2T 55 500 G	3000	4.8	3	367.200	6006468

St Steel

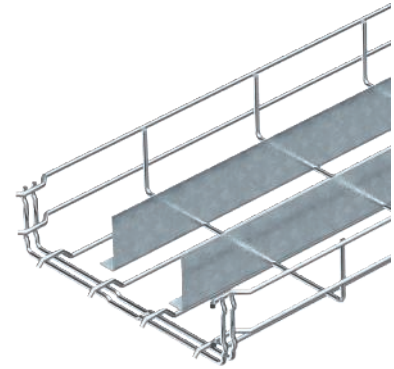
G Electrogalvanised

No additional connection components are required for the mesh cable tray, it is simply interlocked.

The grid width is 50 x 100 mm.

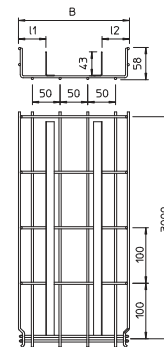
Mesh cable tray with shaped connector and two welded barrier strips of side height 55 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.



Dimensions

Type	Length mm	Dimen- sion B mm	Wire Ø mm	Useful cross- section cm ²
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

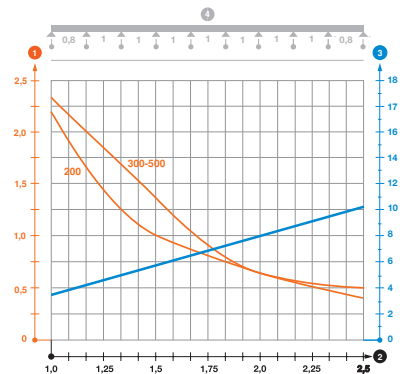


Load

Type	1.0 m 1.5 m 2.0 m kN/m kN/m kN/m		
	GRM-2T 55 200 G	2	1
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



Separating retainer

Type	Dimen- sion H mm	Plate thickness mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
TSG 45 DD	45	0.75	3000	3	46.800	6062321
TSG 45 A2	45	0.75	3000	3	47.000	6062025
TSG 45 A4	45	0.75	3000	3	48.000	6062028

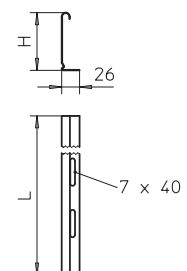
St Steel

V2A Stainless steel, A2

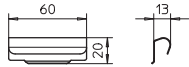
V4A Stainless steel, A4

FS Strip-galvanised DD Strip galvanised zinc/aluminium, double dip

Separating retainer for separation of cables of different voltages or functions.



Separating retainer connector

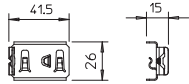


Type	Pack. pcs	Weight kg/100 pcs	Item No.
TSGV A2	10	0.923	6067970

V2A Stainless steel, A2

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Hold-down clamp for separating retainer fastening

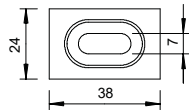
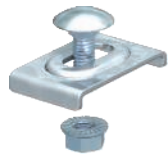


Type	Pack. pcs	Weight kg/100 pcs	Item No.
KS GR A2	30	0.830	6062282

V2A Stainless steel, A2

Hold-down clamp for fastening separating retainer in mesh cable trays.

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
GKT 38 A2	20	2.200	6017045
GKT 38 A4	10	2.200	6017092

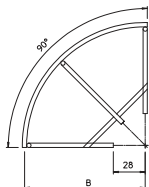
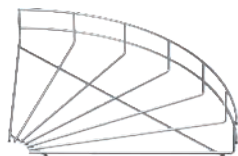
St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

G Electrogalvanised FT Hot-dip galvanised

Including FRS M6 x 20 bolt with flange nut.

Clamp for fastening barrier strip in mesh cable trays.

90° mesh cable tray bend



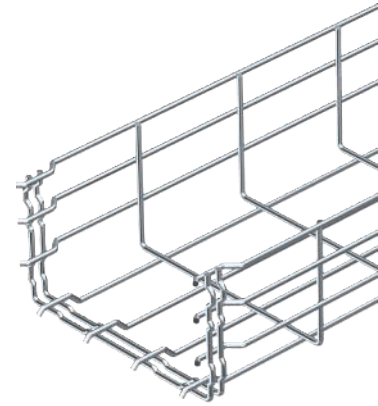
Type	Width mm	Wire Ø mm	Pack. pcs	Weight kg/100 pcs	Item No.
GRB 90 510 G	100	3.9	1	7.000	6001920
GRB 90 515 G	150	3.9	1	14.400	6001998
GRB 90 520 G	200	3.9	1	18.400	6001939
GRB 90 530 G	300	4.4	1	41.700	6001947
GRB 90 540 G	400	4.8	1	65.500	6001955
GRB 90 550 G	500	4.8	1	94.800	6001963
GRB 90 560 G	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

G Electrogalvanised FT Hot-dip galvanised

90° bend, horizontal, for all mesh cable trays of 55 mm side height.

Mesh cable tray GR-Magic®



Type	Wire		Pack.	Weight		Item No.
	Width mm	Ø mm		m	kg/100 m	
GRM 105 100 G	100	3.9	3	99.340	6002402	
GRM 105 150 G	150	3.9	3	110.600	6002404	
GRM 105 200 G	200	4.8	3	192.340	6002406	
GRM 105 300 G	300	4.8	3	236.700	6002408	
GRM 105 400 G	400	4.8	3	278.000	6002410	
GRM 105 500 G	500	4.8	3	319.000	6002415	
GRM 105 600 G	600	4.8	3	363.300	6002417	
GRM 105 100 FT	100	3.9	3	103.700	6002431	
GRM 105 150 FT	150	3.9	3	116.000	6002433	
GRM 105 200 FT	200	4.8	3	200.700	6002435	
GRM 105 300 FT	300	4.8	3	244.000	6002437	
GRM 105 400 FT	400	4.8	3	287.700	6002439	
GRM 105 500 FT	500	4.8	3	333.000	6002443	
GRM 105 600 FT	600	4.8	3	375.000	6002445	

St Steel

G Electrogalvanised FT Hot-dip galvanised

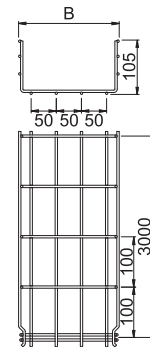
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

Mesh cable tray with shaped connector of side height 105 mm.

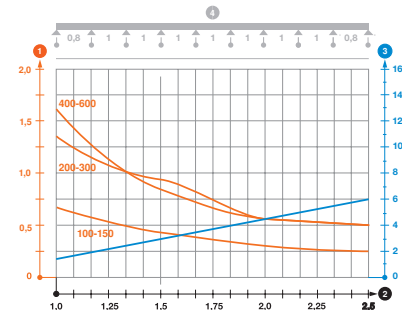
Magnetic shield insulation without cover 15 dB, with cover 25 dB.

Type	Length mm	Dimension B mm	Wire Ø mm	Useful cross-section cm ²
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

Dimensions



Load



Type	1.0 m	1.5 m	2.0 m	3.0 m
	kN/m	kN/m	kN/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

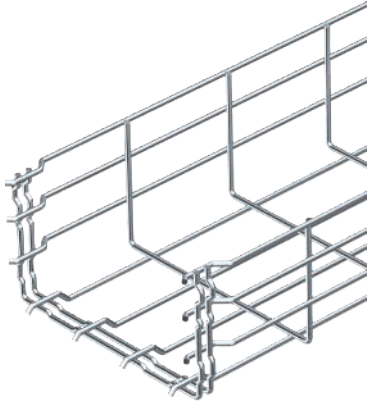
4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width



GR-Magic® mesh cable tray



Type	Wire		Pack. m	Weight kg/100 m	Item No.
	Width mm	Ø mm			
GRM 105 100 A2	100	3.9	3	99.000	6002451
GRM 105 150 A2	150	3.9	3	111.670	6002455
GRM 105 200 A2	200	4.8	3	200.670	6002457
GRM 105 300 A2	300	4.8	3	235.000	6002460
GRM 105 400 A2	400	4.8	3	277.000	6002463
GRM 105 500 A2	500	4.8	3	319.000	6002466
GRM 105 600 A2	600	4.8	3	363.340	6002469
GRM 105 100 A4	100	3.9	3	99.000	6002475
GRM 105 150 A4	150	3.9	3	109.130	6002476
GRM 105 200 A4	200	4.8	3	192.340	6002477
GRM 105 300 A4	300	4.8	3	235.000	6002479
GRM 105 400 A4	400	4.8	3	277.000	6002481
GRM 105 500 A4	500	4.8	3	319.000	6002483
GRM 105 600 A4	600	4.8	3	363.340	6002485

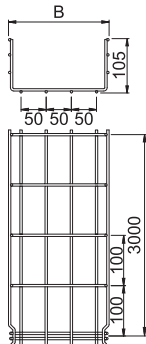
V2A Stainless steel, A2 V4A Stainless steel, A4

GB Stained

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

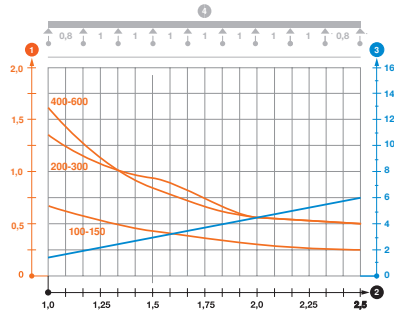
Mesh cable tray with shaped connector of side height 105 mm.

Dimensions



Type	Length mm	Dimen- sion B mm	Wire Ø mm	Useful cross-section cm²
GRM 105 150 A2	3000	150	3.9	130
GRM 105 200 A2	3000	200	4.8	175
GRM 105 300 A2	3000	300	4.8	268
GRM 105 400 A2	3000	400	4.8	363
GRM 105 500 A2	3000	500	4.8	459
GRM 105 600 A2	3000	600	4.8	554

Load



Type	1.0 m	1.5 m	2.0 m	3.0 m
	kN/m	kN/m	kN/m	kN/m
GRM 105 100 A2	0.8	0.55	0.37	0.25
GRM 105 150 A2	0.8	0.55	0.37	0.25
GRM 105 200 A2	0.8	0.55	0.37	0.25
GRM 105 300 A2	1.1	0.75	0.53	0.3
GRM 105 400 A2	1.1	0.75	0.53	0.3
GRM 105 500 A2	1.25	0.85	0.6	0.3
GRM 105 600 A2	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

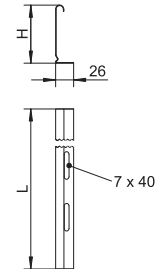
Separating retainer

Type	Dimen- sion H mm	Plate thickness mm	Dimen- sion 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
TSG 85 A2	85	0.75	3000	3	69.670	6062173

St Steel **V2A** Stainless steel, A2

FS Strip-galvanised **DD** Strip galvanised zinc/aluminium, double dip

Separating retainer for separation of cables of different voltages or functions.

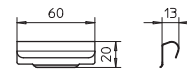


Separating retainer connector

Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
TSGV A2	10	0.923	6067970

V2A Stainless steel, A2

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

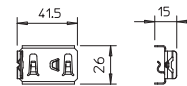


Hold-down clamp for separating retainer fastening

Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
KS GR A2	30	0.830	6062282

V2A Stainless steel, A2

Hold-down clamp for fastening separating retainer in mesh cable trays.



Hold-down clamp

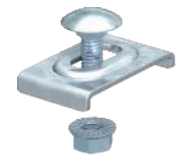
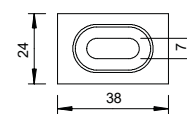
Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
GKT 38 G	20	2.300	6017037
GKT 38 FT	20	2.400	6017061
GKT 38 A2	20	2.200	6017045
GKT 38 A4	10	2.200	6017092

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4

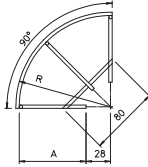
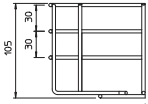
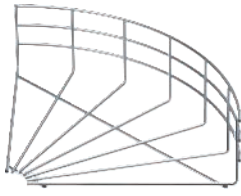
G Electrogalvanised **FT** Hot-dip galvanised

Including FRS M6 x 20 bolt with flange nut.

Clamp for fastening barrier strip in mesh cable trays.



90° mesh cable tray bend



Type	Wire		Pack. pcs	Weight		Item No.
	Width mm	Ø mm		kg/100 pcs.		
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

G Electrogalvanised FT Hot-dip galvanised

90° bend, horizontal, for all mesh cable trays of 105 mm side height.

Connector

Type	Pack. pcs	Weight		Item No.
		kg/100	pcs.	
GSV 34 G	20	3.000	6016596	
GSV 34 FT	20	3.000	6016634	
GSV 34 A2	20	3.000	6016642	
GSV 34 A4	20	3.000	6016648	

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4

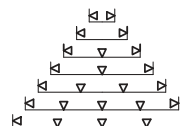
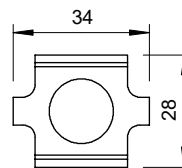
G Electrogalvanised **FT** Hot-dip galvanised

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
- 200–300 mm = 3 units
- 400–450 mm = 4 units
- 500–600 mm = 5 units



Joint connector GSV 6.0

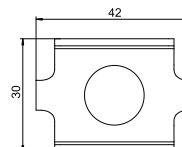
Type	Pack. pcs	Weight		Item No.
		kg/100	pcs.	
GSV 6.0 FT	20	5.000	6016590	

St Steel

FT Hot-dip galvanised

Including FRS M6 x 20 bolt with combination nut.

Screwed version of joint connector for mesh cable trays with 6.0 mm wire thickness.



Quick connector

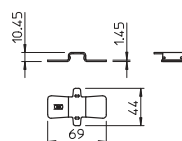
Type	Pack. pcs	Weight		Item No.
		kg/100	pcs.	
GRS 3.9 DD	50	2.500	6016545	
GRS 4.8 DD	50	2.500	6016561	

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, for mesh cable trays up to a width of 150 mm.



Mesh cable tray connector, long

Type	Width mm	Pack. pcs	Weight		Item No.
			kg/100	pcs.	
GRV 245 FS	245	20	13.500	6016680	
GRV 245 DD	245	20	13.500	6016684	
GRV 245 A4	245	20	13.500	6016688	

St Steel

V4A Stainless steel, A4

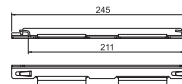
FS Strip-galvanised **DD** Strip galvanised zinc/aluminium, double dip

Two straight connectors, type GRV 245, are used for each connection point.

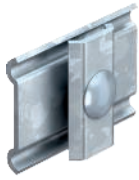
Can be used from a mesh cable tray width of 100 mm.

The FS variant is used to connect electrogalvanised mesh cable trays, the DD variant to connect hot/hot-dip galvanised mesh cable trays and the VA variant to connect stainless steel mesh cable trays.

Long mesh cable tray connectors for screwless straight connection of mesh cable trays.



Mesh cable tray connector



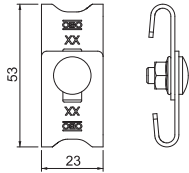
Type
K 11 262 FT

St Steel
FT Hot-dip galvanised

Including screw of type FRS M6 x 20.
Screwed version of joint connector for mesh cable trays.

Pack.	Weight		Item No.
	pcs.	kg/100 pcs.	
25	7.500		6015107

Corner connector



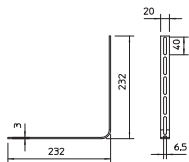
Type
GEV 36 G

Pack.	Weight		Item No.
	pcs.	kg/100 pcs.	
20	3.040		6016715
20	3.000		6016723
20	3.000		6016731
10	3.000		6016764

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4
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.

Slotted steel strap, bent

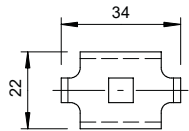


Pack.	Dimension mm	Weight		Item No.
		pcs.	kg/100 pcs.	
25	OSG 20X3 FT 20x3	15.800		6017371

St Steel
FT Hot-dip galvanised

Set includes four clamps, type GKS 34.
Bent slotted steel strap for creation of bends and tees.

Clamping piece



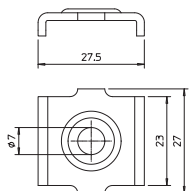
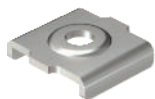
Pack.	Type	Weight		Item No.
		pcs.	kg/100 pcs.	
20	GKS 34 G	2.000		6016855
20	GKS 34 FT	2.000		6016820
20	GSV 34 A2	3.000		6016642
20	GSV 34 A4	3.000		6016648

V2A Stainless steel, A2 **V4A** Stainless steel, A4

St Steel
G Electrogalvanised **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



Pack.	Type	Weight		Item No.
		pcs.	kg/100 pcs.	
20	GKB 34 G	1.000		6016674
20	GKB 34 A2	1.000		6016676

St Steel **V2A** Stainless steel, A2

G Electrogalvanised

Clamp for fastening mesh cable trays of width 50 mm to the floor.

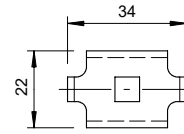
Clamping piece

Type	Pack. pcs.	Weight		Item No.
		kg/100 pcs.	kg/100 pcs.	
GKS 34 A4	10	2.000	2.000	6016859

V4A Stainless steel, A4

Including FRS M6 x 20 screw with nut and washer.

Hold-down clamp for fixing mesh cable trays to wall or support brackets.



Hold-down clamp

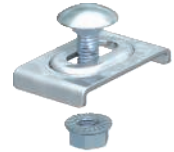
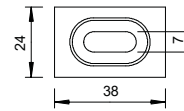
Type	Pack. pcs.	Weight		Item No.
		kg/100 pcs.	kg/100 pcs.	
GKT 38 G	20	2.300	2.300	6017037
GKT 38 FT	20	2.400	2.400	6017061
GKT 38 A2	20	2.200	2.200	6017045
GKT 38 A4	10	2.200	2.200	6017092

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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 clamp

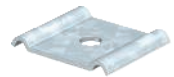
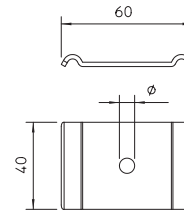
Type	Hole Ø mm	Pack. pcs.	Weight		Item No.
			kg/100 pcs.	kg/100 pcs.	
GKS 50 07 FS	7	50	4.000	4.000	6015263
GKS 50 11 FS	11	50	4.000	4.000	6015276
GKS 50 07 FT	7	50	4.100	4.100	6015271
GKS 50 11 FT	11	50	4.100	4.100	6015278

St Steel

FS Strip-galvanised FT Hot-dip galvanised

Use on mesh cable trays with 50 x 100 mm grid only.

Hold-down clamp for fastening mesh cable trays on the ground or on stand-off brackets of type DBL.



Earthing terminal for cables and flat conductors

Type	Shipping box pcs	Pack. pcs.	Weight		Item No.
			kg/100 pcs.	kg/100 pcs.	
939	150	25	5.932	5.932	5043107

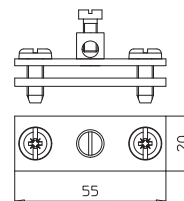
St Steel

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



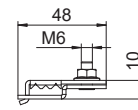
Grounding clamp

Type	Pack. pcs.	Weight		Item No.
		kg/100 pcs.	kg/100 pcs.	
VEK-GRM 3.9 FS	25	3.850	3.850	6016694
VEK-GRM 4.8 FS	25	3.800	3.800	6016696

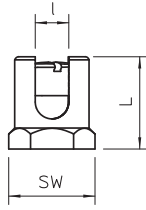
St Steel

FS Strip-galvanised

The connection and earthing terminal is used to reduce electrical resistance and therefore improves the electric conductivity in GRM mesh cable systems in the area of the joint. This allows fulfilment of the high demands in terms of the transition resistance according to, for example, NEMA and CSA. Furthermore, the connection and earthing terminal is compulsory when used as a protective conductor in a mesh cable tray system (national regulations have to be followed when creating such a system).



Earthing terminal with fastening thread

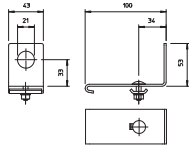


Type	Dimen- sion L mm	Dimen- sion I mm	Cross- section mm ²	Thread	Pack. pcs	Weight		Item No.
						kg/100 pcs.		
EKL 25 M6	22	8	25	M6	50	3.100		6404006
EKL 35 M6	26	10	35	M6	50	4.800		6404014

CuZn Brass

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

Side holder for cable gland



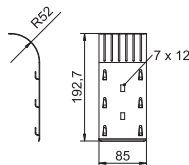
Type	Hole Ø mm	Pack. pcs	Weight		Item No.
			kg/100 pcs.		
SH KAB 20 FS	20	10	15.000		6015425
SH KAB 25 FS	25	10	14.700		6015433

St Steel

FS Strip-galvanised

Conduit take off bracket with perforation for accepting cable glands.

Cable exit plate



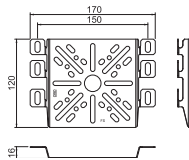
Type	Pack. pcs	Weight		Item No.
		kg/100 pcs.		
KAB GR FS	10	14.100		6220139
KAB GR FT	10	14.100		6220142
KAB GR A2	10	14.100		6220145

St Steel **V2A** Stainless steel, A2

FS Strip-galvanised **FT** Hot-dip galvanised

The drop-out plate allows compliance with specific bend radii, thus preventing possible cable breaks. Can be mounted in a lengthwise direction and at the side, can be arranged for greater widths.

Mounting plate for cable tray



Type	Height mm	Width mm	Pack. pcs	Weight		Item No.
				kg/100 pcs.		
MP UNI FS	115	170	40	13.300		7084773
MP UNI DD	115	170	40	11.000		7085114
MP UNI A2	115	170	40	11.000		7085133

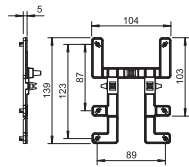
St Steel **V2A** Stainless steel, A2

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



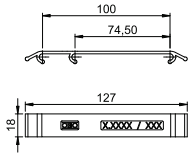
Type	Pack. pcs	Weight		Item No.
		kg/100 pcs.		
BE TS GR	10	2.300		2007833

PC Polycarbonate

The fastening element BE TS GR can be used to attach OBO junction boxes, type T60 and T100, to mesh cable trays quickly and in a few actions.

This keeps the junction box securely in position. However, it can be quickly dismantled as necessary.

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.	0.920	0.742	0.920	0.920
Pack. pcs	10	10	10	10
Item No.	6017712	6017713	6017714	6017715

PA Polyamide

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.

Bolt cutter

Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GR BS	450	1	160.000	6017700

St Steel



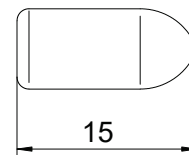
Bolt cutter for cutting mesh cable trays.

End cap

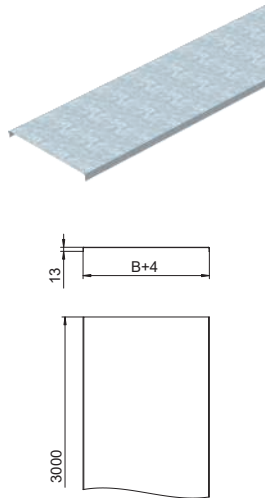
Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GR KS 3.9 OR	Pure orange	500	0.025	6003750
GR KS 4.8 OR	Pure orange	500	0.030	6003754

PVC Polyvinylchloride

End cap to cover cut wire ends of mesh cable trays.



Cover



Type	Dimension B mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRLU 050 FS	50	0.75	3000	3	59.770	6052056
DRLU 100 FS	100	0.75	3000	3	99.000	6052103
DRLU 150 FS	150	0.75	3000	3	138.270	6052153
DRLU 200 FS	200	1.00	3000	3	177.500	6052210
DRLU 300 FS	300	1.00	3000	3	256.000	6052307
DRLU 400 FS	400	1.00	3000	3	334.670	6052405
DRLU 500 FS	500	1.25	3000	3	619.230	6052512
DRLU 600 FS	600	1.25	3000	3	737.000	6052609
DRLU 050 DD	50	0.75	3000	3	59.770	6052640
DRLU 100 DD	100	0.75	3000	3	99.000	6052643
DRLU 150 DD	150	0.75	3000	3	138.270	6052647
DRLU 200 DD	200	1.00	3000	3	177.500	6052650
DRLU 300 DD	300	1.00	3000	3	256.000	6052656
DRLU 400 DD	400	1.00	3000	3	334.500	6052662
DRLU 500 DD	500	1.25	3000	3	619.230	6052668
DRLU 600 DD	600	1.25	3000	3	737.000	6052674
DRLU 050 A2	50	1.00	3000	3	59.770	6052821
DRLU 100 A2	100	1.00	3000	3	99.000	6052824
DRLU 150 A2	150	1.00	3000	3	138.240	6052828
DRLU 200 A2	200	1.00	3000	3	177.500	6052831
DRLU 300 A2	300	1.00	3000	3	256.000	6052834
DRLU 400 A2	400	1.00	3000	3	334.500	6052837
DRLU 500 A2	500	1.25	3000	3	619.170	6052841
DRLU 600 A2	600	1.25	3000	3	736.900	6052844
DRLU 100 A4	100	1.00	3000	3	99.000	6052991
DRLU 150 A4	150	1.00	3000	3	138.240	6052992
DRLU 200 A4	200	1.00	3000	3	177.500	6052993
DRLU 300 A4	300	1.00	3000	3	256.000	6052994
DRLU 400 A4	400	1.00	3000	3	334.500	6052995
DRLU 500 A4	500	1.25	3000	3	619.170	6052996
DRLU 600 A4	600	1.25	3000	3	736.900	6052998

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

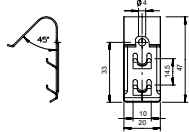
FS Strip-galvanised DD Strip galvanised zinc/aluminium, double dip

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 clamp, universal



Type	Pack. pcs	Weight kg/100 pcs	Item No.
DKU A2	20	0.800	6065600

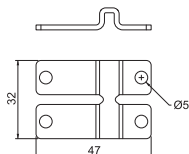
V2A Stainless steel, A2

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.

Clamping piece UK GR



Type	Version	Pack. pcs	Weight kg/100 pcs	Item No.
WB GR FT	For wire thickness 3.9 mm	20	2.540	6017160
WB GR A4	For wire thickness 3.9 mm	20	2.423	6017164

St Steel V4A Stainless steel, A4

FT Hot-dip galvanised

Fastening component for direct mounting of mesh cable trays to the wall and floor. Can be screwed or riveted on.

Joint connector

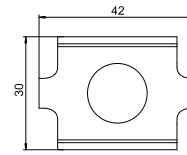
Type	Pack. pcs	Weight		Item No.
		kg/100	pcs.	
GSV 6.0 G	20	5.000		6016589

St Steel

G Electrogalvanised

Including FRS M6 x 20 bolt with combination nut.

Screwed version of joint connector for mesh cable trays with 6.0 mm wire thickness.

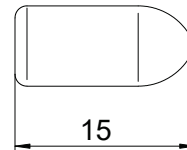


End cap

Type	Colour	Pack. pcs	Weight		Item No.
			kg/100	pcs.	
SGR KS OR	Pure orange	500	0.036		6003758

PVC Polyvinylchloride

End cap to cover cut wire ends of mesh cable trays.

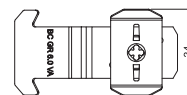
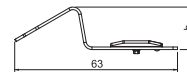


Hold down clip

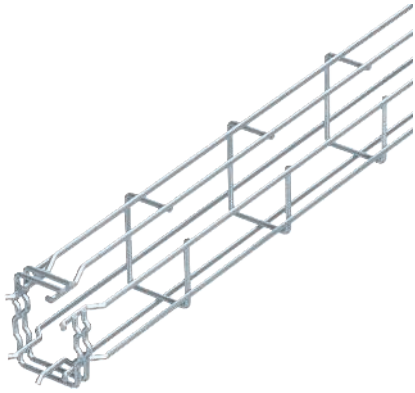
Type	Dimension b mm	Version	Pack. pcs	Weight		Item No.
				kg/100	pcs.	
BC SGR A2	19	For wire Ø 6.0 mm	20	1.760		6016668

V2A Stainless steel, A2

Hold-down clip for the screwless mounting of mesh cable trays onto MS profile rails.



G mesh cable tray Magic, side height 50 mm

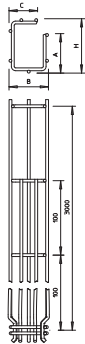


Type	Side height mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
G-GRM 50 50 G	50	3.9	3	67.100	6005535
G-GRM 50 50 FT	50	3.9	3	68.600	6005520
G-GRM 50 50 A2	50	3.9	3	67.100	6005550
G-GRM 50 50 A4	50	3.9	3	67.100	6005565

■ Steel
 ■ V2A Stainless steel, A2
 ■ V4A Stainless steel, A4
■ Electrogalvanised
 ■ FT Hot-dip galvanised

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request. Magnetic shield insulation 15 dB.

Dimensions



	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

G mesh cable tray Magic, side height 75 mm

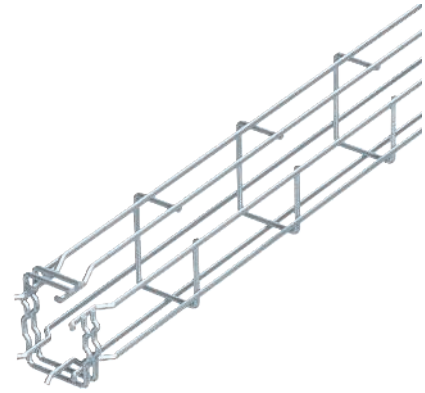
Type	Side height mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
G-GRM 75 50 G	75	3.9	3	79.900	6005538
G-GRM 75 50 FT	75	3.9	3	81.700	6005523
G-GRM 75 50 A2	75	3.9	3	79.900	6005553
G-GRM 75 50 A4	75	3.9	3	79.900	6005568

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

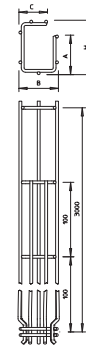
G Electrogalvanised FT Hot-dip galvanised

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. 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

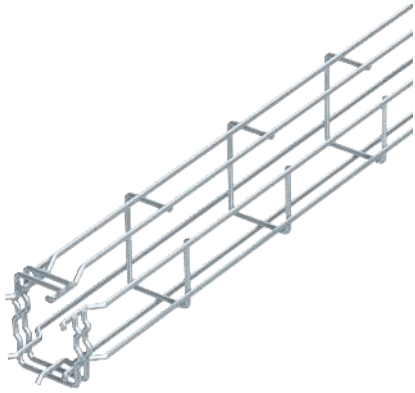
Load

G-GRM 75/50

Fastening variant	Support spacing [m]		
	1	2	2.5
Bracket MWAG 12-11	-	-	-
Wall fastening K12 1818	0.3	0.2	0.15
Ceiling fastening K12 1818	0.35	0.2	0.15



G mesh cable tray Magic, side height 125 mm



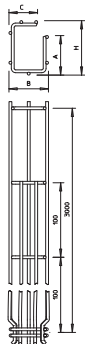
Type	Side height mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
G-GRM 125 75 G	125	3.9	3	108.000	6005541
G-GRM 125 75 FT	125	3.9	3	113.670	6005526
G-GRM 125 75 A2	125	3.9	3	108.000	6005556
G-GRM 125 75 A4	125	3.9	3	108.000	6005571

St Steel
 V2A Stainless steel, A2
 V4A Stainless steel, A4
G Electrogalvanised
 FT Hot-dip galvanised

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Dimensions



	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

G mesh cable tray Magic, side height 150 mm

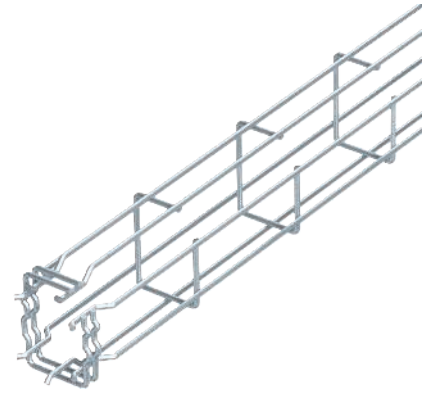
Type	Side height mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
G-GRM 150 100 G	150	3.9	3	128.000	6005544
G-GRM 150 100 FT	150	3.9	3	130.900	6005529
G-GRM 150 100 A2	150	3.9	3	128.000	6005559
G-GRM 150 100 A4	150	3.9	3	128.000	6005574

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

G Electrogalvanised FT Hot-dip galvanised

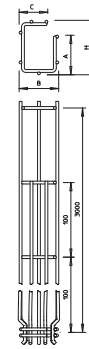
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

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



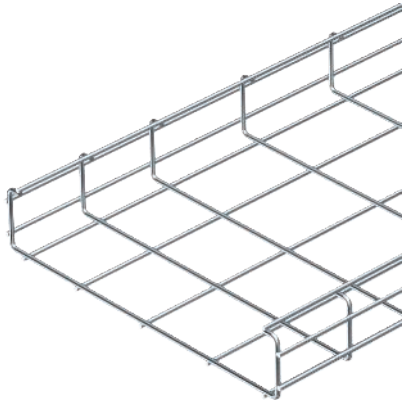
Load

G-GRM 150/100

	Support spacing [m]			
	1	1.5	2	2.5
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



C mesh cable tray CGR



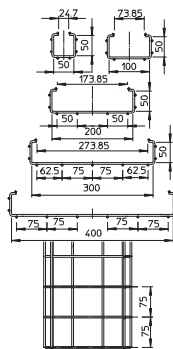
Type	Side height mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
CGR 50 50 FT	50	4.5	3	128.667	6017428
CGR 50 100 FT	50	4.5	3	136.000	6017436
CGR 50 200 FT	50	4.5	3	177.133	6017444
CGR 50 300 FT	50	4.5	3	204.340	6017452
CGR 50 400 FT	50	4.5	3	240.000	6017460
CGR 50 50 A2	50	4.5	3	124.667	6016200
CGR 50 100 A2	50	4.5	3	133.000	6016235
CGR 50 200 A2	50	4.5	3	169.000	6016251
CGR 50 300 A2	50	4.5	3	195.340	6016253
CGR 50 400 A2	50	4.5	3	222.334	6016255

SI Steel V2A Stainless steel, A2

GB Stained FT Hot-dip galvanised

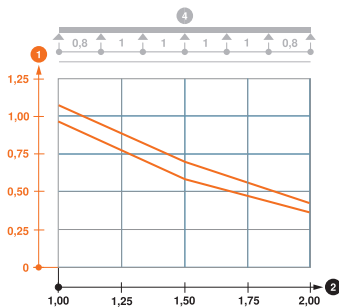
C-shaped mesh cable tray made of spot-welded steel wire of side height 50 mm.
Magnetic shield insulation 15 dB.

Dimensions



Type	Length mm	Width mm	Wire Ø mm	Useful cross- section cm ²
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	0.95	0.6	0.35
CGR 50 100 FT	0.95	0.6	0.35
CGR 50 200 FT	1.1	0.7	0.4
CGR 50 300 FT	1.1	0.7	0.4
CGR 50 400 FT	1.1	0.7	0.4

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

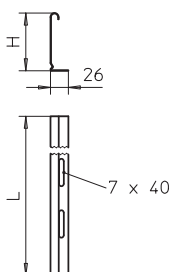


Type	Dimen- sion H mm	Plate thickness mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
TSG 30 DD	30	0.75	3000	3	38.000	6062314
TSG 30 A2	30	0.75	3000	3	37.670	6062052

SI Steel V2A Stainless steel, A2

DD Strip galvanised zinc/aluminium, double dip

Barrier strip for separation of cables of different voltages or functions.

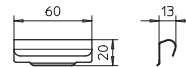


Separating retainer connector

Type	Pack. pcs	Weight		Item No.
		kg/100	pcs.	
TSGV A2	10	0.923	6067970	

V2A Stainless steel, A2

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

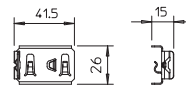


Hold-down clamp for separating retainer fastening

Type	Pack. pcs	Weight		Item No.
		kg/100	pcs.	
KS GR A2	30	0.830	6062282	

V2A Stainless steel, A2

Hold-down clamp for fastening separating retainer in mesh cable trays.



Hold-down clamp

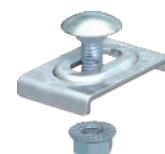
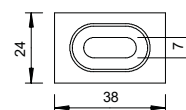
Type	Pack. pcs	Weight		Item No.
		kg/100	pcs.	
GKT 38 FT	20	2.400	6017061	
GKT 38 A2	20	2.200	6017045	
GKT 38 A4	10	2.200	6017092	

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FT Hot-dip galvanised

Including FRS M6 x 20 bolt with flange nut.

Clamp for fastening barrier strip in mesh cable trays.



Joint connector

Type	Pack. pcs	Weight		Item No.
		kg/100	pcs.	
GSV 34 FT	20	3.000	6016634	
GSV 34 A2	20	3.000	6016642	
GSV 34 A4	20	3.000	6016648	

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FT Hot-dip galvanised

Including FRS M6 x 20 bolt with flange nut.

Screwed version of joint connector for mesh cable trays.

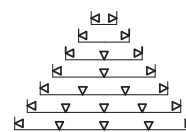
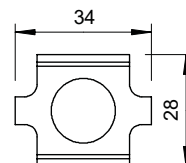
Figure: Positioning and quantity of mesh cable tray connectors.

50–150 mm = 2 units

200–300 mm = 3 units

400–450 mm = 4 units

500–600 mm = 5 units



45° mounting angle

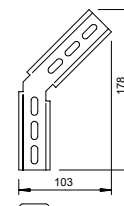
Type	Pack. pcs	Weight		Item No.
		kg/100	pcs.	
MW 45 SL10 FT	20	21.000	6017320	
MW 45 SL10 A2	20	20.000	6017339	

St Steel V2A Stainless steel, A2

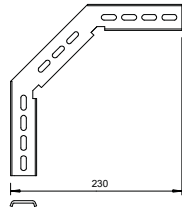
FT Hot-dip galvanised

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

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
MW 90 SL17 A2	20	27.000	6016278
MW 90 SL23 A2	20	34.700	6016308

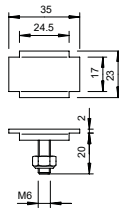
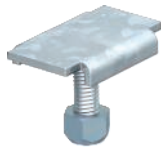
SI Steel V2A Stainless steel, A2

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

Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
KS 23 35 FT	100	2.015	6015174
KS 23 35 A2	20	2.015	6016529

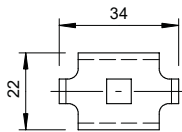
SI Steel V2A Stainless steel, A2

FT Hot-dip galvanised

Including M6 locknut.

Clamp for mounting bracket, type MW 45 and MW 90.

Hold-down clamp



Type

Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
GKS 34 FT	20	2.000	6016820
GKS 34 A2	20	2.000	6016839

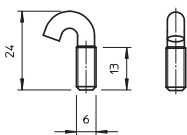
SI Steel V2A Stainless steel, A2

FT Hot-dip galvanised

Including FRS M6 x 20 bolt with flange nut.

Clamp for fixing mesh cable trays to wall or support brackets.

Hook screw



Thread

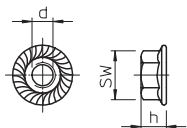
Type

Type	Thread	Pack. pcs.	Weight kg/100 pcs.	Item No.
HS M6x13 A2	M6	100	0.612	1154990

V2A Stainless steel, A2

Hook screw for fastening cable tracks on the bracket.

Combination nut, V2A



Type	Dimension d mm	Dimension h mm	SW mm	Resistance class
KM M6 A2	6	6	10	A2-70

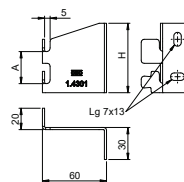
V2A Stainless steel, A2

Nut with pressed washer.

Wall holder for type CGR50, horizontal

Type	Di-	Di-	Pack.	Weight	Item No.
	men-	men-		kg/100	
	sion	sion	pcs	pcs.	
	A	H			
	mm	mm			
WBH CGR50 A2	30	65	25	8.600	6016411
V2A Stainless steel, A2					

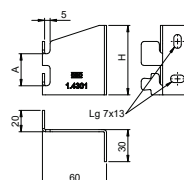
Wall mounting for horizontal wall fastening of the C mesh cable tray. Screwless mesh cable tray fastening on the wall mounting.



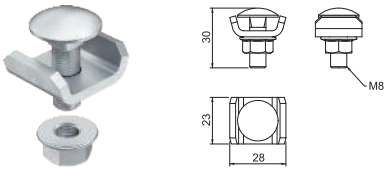
Wall holder for type CGR50, vertical

Type	Di-	Di-	Pack.	Weight	Item No.
	men-	men-		kg/100	
	sion	sion	pcs	pcs.	
	A	H			
	mm	mm			
WBV CGR50 A2	75	110	25	16.000	6016415
V2A Stainless steel, A2					

Wall mounting for vertical wall fastening of the C mesh cable tray. Screwless mesh cable tray fastening on the wall mounting.



U connector GUV 6



Type

GUV 6 G

GUV 6 FT

St Steel

G Electrogalvanised **FT** Hot-dip galvanised

Including FRS M8 x 25 bolt with flange nut.

Joint connector for mesh cable tray type SGR.

Figure: Positioning and quantity of mesh cable tray connectors.

50–150 mm = 2 units

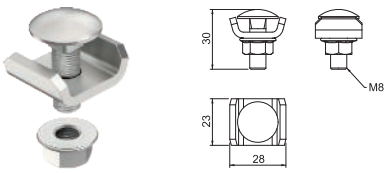
200–300 mm = 3 units

400–450 mm = 4 units

500–600 mm = 5 units

Type	Pack. pcs.	Weight		Item No.
		kg/100 pcs.	pcs.	
GUV 6 G	20	4.154		6016572
GUV 6 FT	20	4.226		6016573

U connector GUV 6 VA



Type

GUV 6 A2

V2A Stainless steel, A2

Including FRS M6 x 20 bolt with flange nut.

Joint connector for mesh cable tray type SGR.

Figure: Positioning and quantity of mesh cable tray connectors.

50–150 mm = 2 units

200–300 mm = 3 units

400–450 mm = 4 units

500–600 mm = 5 units

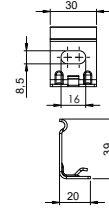
Type	Pack. pcs.	Weight		Item No.
		kg/100 pcs.	pcs.	
GUV 6 A2	20	4.154		6016574

Wall mounting for type GRM 35 x 50

Type	Side height mm	Width mm	Pack. pcs	Weight		Item No.
				kg/100 pcs	pcs.	
WH GRM35 FT	35	50	10	1.950		6016443
WH GRM35 A4	35	50	10	1.950		6016445

St Steel **V4A** Stainless steel, A4
FT Hot-dip galvanised

Wall mounting for wall fastening of mesh cable trays, type GRM 35 50

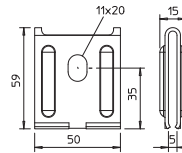


Wall clamp / central hanger

Type	Pack. pcs	Weight		Item No.
		kg/100 pcs	pcs.	
K 12 1818 FS	25	7.600		6437109
K12 1818 A2	25	7.600		6016421

St Steel **V2A** Stainless steel, A2
FS Strip-galvanised

As wall fastening up to max. mesh cable tray width 200 mm.
 As centre suspension up to max. mesh cable tray width 200 mm.
 As a pendulum suspension from a width of 300 mm.
 Wall clamp and central hanger for mesh cable trays.

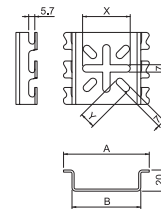


Mounting plate for mesh cable tray

Type	Dimension A mm	Dimension B mm	Dimension x mm	Dimension y mm	Pack. pcs	Weight		Item No.
						kg/100 pcs	pcs.	
MPG 65 FT	81	65	45	15	30	9.200		6006486
MPG 90 FT	111	95	45	38	30	16.800		6006487
MPG 65 A4	81	65	45	15	30	8.800		6006488
MPG 90 A4	111	95	45	38	30	16.100		6006489

St Steel **V4A** Stainless steel, A4
FT Hot-dip galvanised

Mounting plate for screwless wall fastening of mesh cable trays.



TP support / wall and support bracket



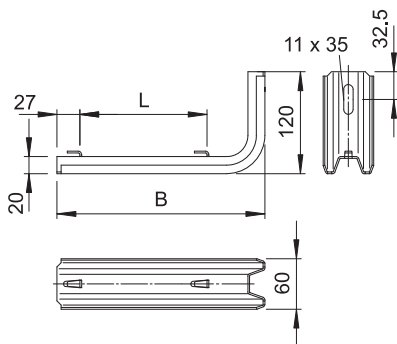
Type	For width F in kN		Pack. pcs.	Weight kg/100		Item No.
	mm	kN		pcs.		
TPSAG 145 FS	100	1.5	50	33.000	6366015	
TPSAG 195 FS	150	1	20	41.000	6366023	
TPSAG 245 FS	200	0.9	20	48.000	6366031	
TPSAG 345 FS	300	0.55	20	61.000	6366066	
TPSAG 145 FT	100	1.5	50	33.000	6366131	
TPSAG 195 FT	150	1	20	42.000	6366135	
TPSAG 245 FT	200	0.9	20	49.000	6366139	
TPSAG 345 FT	300	0.55	20	65.000	6366143	
TPSAG 145 A2	100	1.5	50	32.000	6366145	
TPSAG 195 A2	150	1	20	40.000	6366146	
TPSAG 245 A2	200	0.9	20	47.000	6366148	
TPSAG 345 A2	300	0.55	20	61.000	6366149	

St Steel V2A Stainless steel, A2
 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.

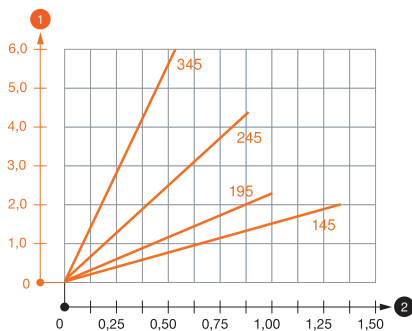
Dimensions



Dimen- Dimension B
 sion mm

Type	Dimension B mm	Dimension 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 Permitted bracket load in kN without man load
- Load curve with bracket lengths in mm

Characteristic anchor load values for TP bracket

Anchor type	Wall fastening			
	Max. load F [kN]			
	Bracket width [mm]			
	145	195	245	345
BZ-U 8-30-41/95	1,00	0,80	0,70	0,50
BZ-U 10-30-50/110	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).

Wall and support bracket MWAG 12

Type	Width F in kN		Pack. pcs.	Weight		Item No.
	mm	kN		kg/100 pcs.		
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	68.000	6424624	

St Steel

FS Strip-galvanised

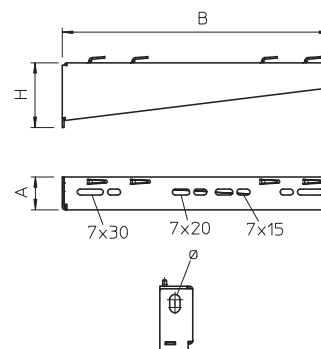
Including truss-head bolt M10 x 25 for fastening to U supports.

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



Type	Dimension B mm	Dimension		
		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

Dimensions



Load

Load diagram, bracket type MWAG 12

- 1 Bending of the bracket tip at permitted bracket load
 - 2 Permitted bracket load in kN without man load
- Load curve with bracket lengths in mm

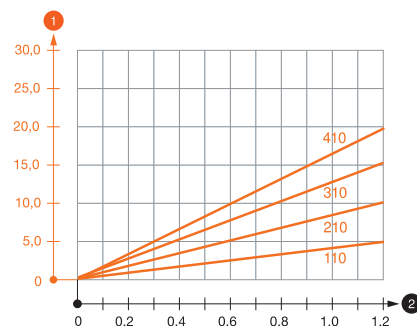
Characteristic anchor load values for wall and support bracket MWAG 12

Anchor type	Max. load F [kN]			
	Bracket width [mm]			
	110	210	310	410
BZ-U 8-10-21/75	1,20	0,95	0,70	0,65
BZ-U 10-10-30/90	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

Support	Max. total load F in kN			
	Bracket length in mm			
	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



Wall and support bracket AWG 15



Type	Width F in kN		Pack. pcs.	Weight kg/100 pcs.		Item No.
	mm	kN		kg/100	pcs.	
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	
AWG 15 11 A2	110	1.5	30	13.000	6420625	
AWG 15 21 A2	210	1.5	30	25.000	6420628	
AWG 15 31 A2	310	1.5	30	33.000	6420631	
AWG 15 41 A2	410	1.5	30	53.000	6420634	
AWG 15 51 A2	510	1.5	20	65.000	6420637	
AWG 15 61 A2	610	1.5	20	80.000	6420640	
AWG 15 11 A4	110	1.5	30	13.000	6420642	
AWG 15 21 A4	210	1.5	30	25.000	6420644	
AWG 15 31 A4	310	1.5	30	33.000	6420646	
AWG 15 41 A4	410	1.5	30	53.000	6420648	
AWG 15 51 A4	510	1.5	20	65.000	6420650	
AWG 15 61 A4	610	1.5	20	80.000	6420652	

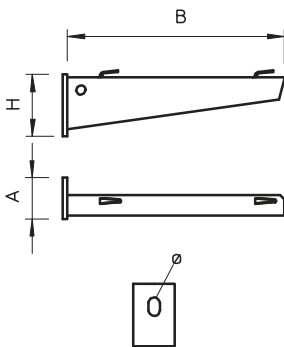
St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

GB Stained 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.

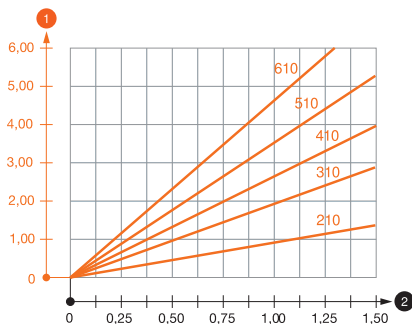
Light-duty wall and support bracket with welded head plate for screwless mesh cable tray fastening.

Dimensions



Type	Dimension B mm	Dimension		
		A mm	H mm	Hole Ø mm
AW G 15 11 FT	110	40	50	11
AW G 15 16 FT	160	40	55	11
AWG 15 21 A2	210	40	60	11
AWG 15 31 A2	310	40	65	11
AWG 15 41 A2	410	40	70	11
AWG 15 51 A2	510	40	75	11
AWG 15 61 A2	610	40	80	11

Load



Load diagram, bracket type AW G 15

- 1 Bending of the bracket tip at permitted bracket load
- 2 Permitted 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

Anchor type	Wall fastening							
	Max. load F [kN]							
	Bracket width [mm]							
	110	160	210	310	410	510	560	610
BZ-U 8-10-21/75	1,10	0,90	0,80	0,65	0,55	0,50	0,45	0,45
BZ-U 10-10-30/90	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

Support	Max. total load F in kN			
	Bracket length in mm			
	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

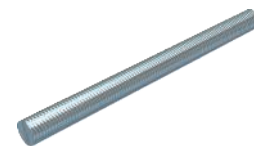
Threaded rod

Type	Thread	Dimension d mm	Dimension L mm	Pack. pcs	Weight kg/100 pcs	Item No.
TR M6 1M G	M6	6	1000	10	18.300	3141047
TR M8 1M G	M8	8	1000	10	30.000	3141128
TR M10 1M G	M10	10	1000	10	49.000	3141209
TR M12 1M G	M12	12	1000	10	62.000	3141306
TR M6 2M G	M6	6	2000	10	36.600	3141048
TR M8 2M G	M8	8	2000	10	60.000	3141136
TR M10 2M G	M10	10	2000	10	98.000	3141140
TR M12 2M G	M12	12	2000	10	140.000	3141144
TR M6 1M A2	M6	6	1000	10	18.300	3141327
TR M8 1M A2	M8	8	1000	10	30.000	3141310
TR M10 1M A2	M10	10	1000	10	49.000	3141312
TR M12 1M A2	M12	12	1000	10	70.000	3141314
TR M6 2M A2	M6	6	2000	10	36.600	3141328
TR M8 2M A2	M8	8	2000	10	60.000	3141330
TR M10 2M A2	M10	10	2000	10	98.000	3141339
TR M12 2M A2	M12	12	2000	10	140.000	3141316
TR M6 1M A4	M6	6	1000	50	18.300	3141482
TR M8 1M A4	M8	8	1000	50	30.000	3141492
TR M10 1M A4	M10	10	1000	25	49.000	3141502
TR M12 1M A4	M12	12	1000	20	70.000	3141512
TR M6 2M A4	M6	6	2000	25	36.600	3141484
TR M8 2M A4	M8	8	2000	25	60.000	3141494
TR M10 2M A4	M10	10	2000	20	98.000	3141504
TR M12 2M A4	M12	12	2000	10	140.000	3141514

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

G Electrogalvanised

Threaded rod to DIN 976.



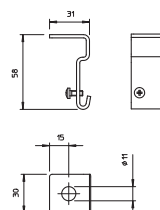
Side holder

Type	Pack. pcs	Weight kg/100 pcs	Item No.
SH M10 FS	50	5.800	6015336
SH M10 FT	50	6.000	6015338
SH M10 A4	20	5.500	6015340

St Steel V4A Stainless steel, grade 316

FS Strip-galvanised FT Hot-dip galvanised

Side holder for suspension of mesh cable trays.



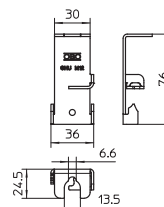
Side holder, universal

Type	Pack. pcs	Weight kg/100 pcs	Item No.
SHU M12 FS	50	5.100	6015322
SHU M12 DD	50	5.100	6015324
SHU M12 A2	50	5.100	6015326
SHU M12 A4	50	5.100	6015328

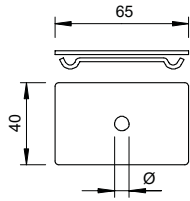
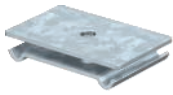
St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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.



Central suspension



Type	Hole Ø mm	Weight		Item No.
		Pack. pcs	kg/100 pcs.	
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

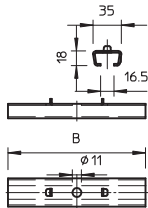
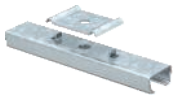
St Steel

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.

Central suspension



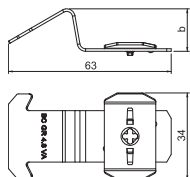
Type	Dimension B mm	Weight		Item No.
		Pack. pcs	kg/100 pcs.	
GMS 170 FS	170	25	20.000	6015400
GMS 270 FS	270	25	32.000	6015402
GMS 370 FS	370	25	43.000	6015404
GMS 470 FS	470	10	55.000	6015406
GMS 570 FS	570	10	67.000	6015408
GMS 170 A4	170	25	20.000	6015418
GMS 270 A4	270	25	32.000	6015419
GMS 370 A4	370	25	43.000	6015420
GMS 470 A4	470	10	55.000	6015421
GMS 570 A4	570	10	67.000	6015422

St Steel **V4A** Stainless steel, A4

FS Strip-galvanised

Centre suspension including hold-down clamp for mesh cable tray suspensions.

Hold down clip



Type	Dimension b mm	Version	Weight		Item No.
			Pack. pcs	kg/100 pcs.	
BC GR 4.8 A2	17	For wire thicknesses 3.9 and 4.8 mm	20	1.760	6016665

V2A Stainless steel, A2

Hold-down clip for the screwless mounting of mesh cable trays onto MS profile rails.

TP wall and ceiling bracket



Type	For		F in kN Wall	Pack. pcs	Weight kg/100 pcs	Item No.
	width mm	F in kN ceiling				
TPDG 145 FS	100	1.3	1.4	6	52.000	6365906
TPDG 195 FS	150	0.95	1.05	6	91.100	6365914
TPDG 245 FS	200	0.8	0.87	5	67.000	6365922
TPDG 345 FS	300	0.5	0.55	5	81.000	6365949
TPDG 145 FT	100	1.3	1.4	6	55.000	6365977
TPDG 245 FT	200	0.8	0.87	5	70.000	6365981
TPDG 345 FT	300	0.5	0.55	5	85.000	6365985
TPDG 145 A2	100	1.3	1.4	6	52.000	6365989
TPDG 195 A2	150	0.95	1.05	6	91.100	6365991
TPDG 245 A2	200	0.8	0.87	5	67.000	6365993
TPDG 345 A2	300	0.5	0.55	5	81.000	6365995

St Steel V2A Stainless steel, A2
 FS Strip-galvanised FT Hot-dip galvanised

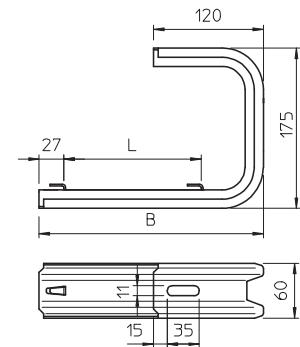
If the bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.

Max. side height of the cable support system 60 mm.

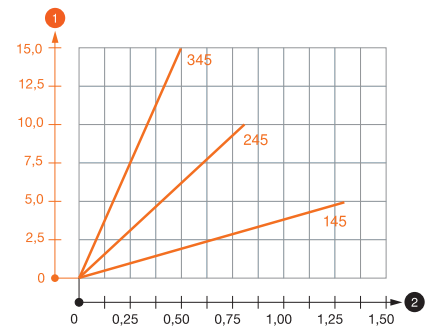
TP wall and ceiling bracket with clamping lugs for screwless mesh cable tray fastening.

	Dimen-	Dimen-
	sion B mm	sion L mm
TPDG 145 FS	145	110
TPDG 195 FS	195	160
TPDG 245 FT	245	210
TPDG 345 FT	345	310

Dimensions



Load



Load diagram, ceiling bracket TPDG

- 1 Bending of the bracket tip at permitted bracket load
 - 2 Permitted bracket load in kN without man load
- Load curve with bracket lengths in mm

Characteristic anchor load values for TPDG wall and ceiling bracket

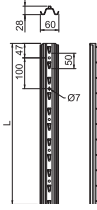
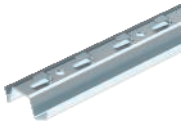
Wall fastening						
Anchor type	Max. load F [kN]					
	Bracket length [mm]					
	145	245	345	445	545	
BZ-U 8-30-41/95	1,00	0,70	0,50	0,40	0,30	
BZ-U 10-30-50/110	1,50	0,90	0,55	0,45	0,35	

Ceiling fastening						
Anchor type	Max. load F [kN]					
	Bracket width [mm]					
	145	245	345	445	545	
BZ-U 8-30-41/95	1,30	0,80	0,50	0,35	0,25	
BZ-U 10-30-50/110	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.



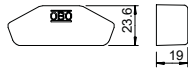
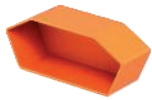
TP profile



Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TPSG 150L FS	150	1	19.800	6366533
TPSG 200L FS	200	1	26.700	6366536
TPSG 250L FS	250	1	33.700	6366539
TPSG 300L FS	300	1	40.600	6366542
TPSG 400L FS	400	1	54.600	6366545
TPSG 500L FS	500	1	68.500	6366548
TPSG 600L FS	600	1	82.400	6366551
TPSG 700L FS	700	1	96.300	6366554
TPSG 3000 FS	3000	1	401.700	6366090
TPSG 3000 FT	3000	1	461.000	6366093

St Steel
FS Strip-galvanised FT Hot-dip galvanised
 TP profile with clamping lugs.

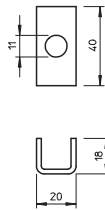
End cap



Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
TPSG KS OR	Pastel orange	10	0.569	6364625

PE Polyethylene
 End cap to cover ends of TP supports.

Spacer

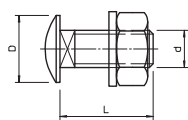
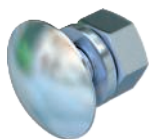


Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DS 4 FS	20	3.700	6416551
DS 4 FT	20	3.800	6416586
DS 4 A2	10	3.700	6416594

St Steel V2A Stainless steel, A2
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 with nut and washer

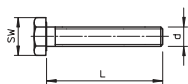


Type	Dimension mm	Dimen- sion L mm	Dimen- sion D mm	Resistance class	Pack. pcs	Weight kg/100 pcs.	Item No.
FRS 10x25 TPS F	M10 x 25	25	18	5.6	50	4.300	6407536
FRS 10x25 TPS A2	M10 x 25	25	18	A2-70	50	4.000	6407537

St Steel V2A Stainless steel, A2
F Hot-dip galvanised

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	Dimen- sion L mm	Dimen- sion 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
F Hot-dip galvanised

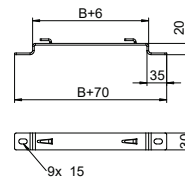
Hexagonal bolt for universal fixing of structure components.

Stand-off bracket

Type	Dimension B mm	Pack. pcs	Weight		Item No.
			kg/100	pcs.	
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

FS Strip-galvanised FT Hot-dip galvanised



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

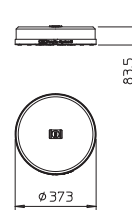
Stand-off bracket for stand-off of mesh cable trays on the floor or on the wall.

GRM mesh cable tray types with side heights of 35, 55 and 105 mm can be mounted onto the spacer clamp.

Stand - TrayFix set 16 S

Type	From tray width mm	Pack. pcs	Weight		Item No.
			kg/100	pcs.	
TrayFix-16-S	100	1	1,700.000	5403099	

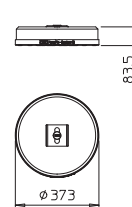
- Mounting system for the fastening of mesh cable trays with the FangFix stone, e.g. cable routing on a flat roof.
- Matches OBO mesh cable tray systems with a minimum width of 100 mm
- Set consisting of TrayFix mounting adapter and concrete block including base for FangFix system 16 kg



Stand - TrayFix set 16 L

Type	From tray width mm	Pack. pcs	Weight		Item No.
			kg/100	pcs.	
TrayFix-16-L	100	1	1,700.000	5403098	

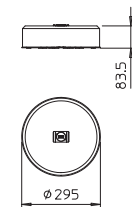
- Mounting system for the fastening of mesh cable trays with the FangFix stone, e.g. cable routing on a flat roof.
- Matched to OBO cable tray systems MKSM and SKSM.
- Matched to OBO mesh cable systems with a minimum width of 100 mm.
- Set consisting of TrayFix mounting adapter and concrete block including base for FangFix system 16 kg



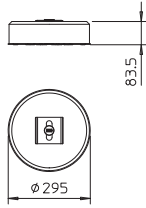
Stand - TrayFix set 10 S

Type	From tray width mm	Pack. pcs	Weight		Item No.
			kg/100	pcs.	
TrayFix-10-S	100	1	1,000.000	5403102	

- Mounting system for the fastening of mesh cable trays with the FangFix stone, e.g. cable routing on a flat roof.
- Matches 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



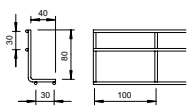
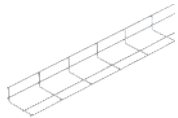
Stand - TrayFix set 10 L



Type	From tray width mm	Pack. pcs	Weight		Item No.
			kg/100 pcs.	pcs.	
TrayFix-10-L	100	1	1,100.000		5403101

- Mounting system for the fastening of mesh cable trays with the FangFix stone, e.g. cable routing on a flat roof.
- Matched to OBO cable tray systems MKSM and SKSM.
- Matched to OBO mesh cable systems with a minimum width of 100 mm.
- Set consisting of TrayFix mounting adapter and concrete block including base for FangFix system 16 kg

Mesh angle



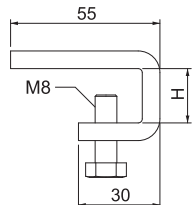
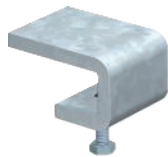
Type	Length mm	Wire		Pack. m	Weight		Item No.
		mm	Ø mm		kg/100 m	pcs.	
GW 40 80 FT	2000		4.4	50	63.000		6003818

- St** Steel
- FT** Hot-dip galvanised

Mesh angle for routing cables in steel girders.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

Hold-down clamp



Type	Height mm	Pack. pcs	Weight		Item No.
			kg/100 pcs.	pcs.	
KL 20 FT	20	10	19.000		6003850
KL 30 FT	30	10	22.500		6003869

- St** Steel
- 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 bracket, type GW 40 80 to steel girders.





R0UBA14GZ024PN02

R0UBA14GZ024PN26

R0UBA14GZ024PN27

R0UBA14GZ024PN28

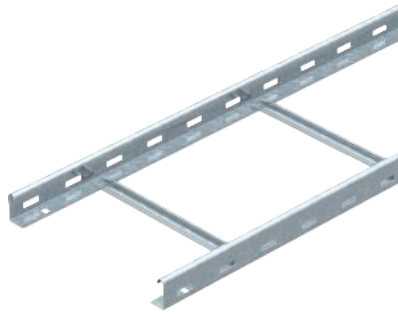
R0UBA14GZ024PN29

Cable ladder systems

	Side rail height 45 mm	308
	Side rail height 45 mm	314
	Side rail height 110 mm	327
	Accessories for side rail height 45, 60, 110 mm	337

Side height 45 mm

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

Sl Steel

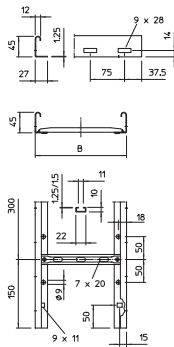
FS Strip-galvanised FT Hot-dip galvanised

The cable ladder is shipped folded up.

You can find the appropriate U clamp of type 2056/N in the vertical ladder systems chapter.

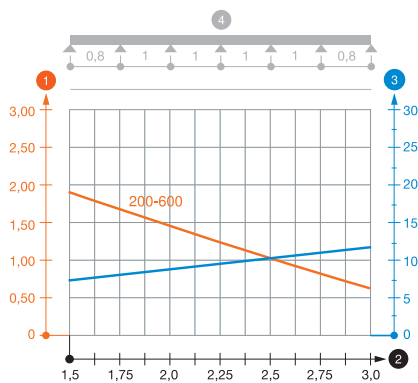
Cable ladder with perforated side rail of side height 45 mm with riveted C profile rungs, open in an upwards direction.

Dimensions



Type	Length mm	Width mm	Rail thickness mm	Useful cross- section cm ²	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



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

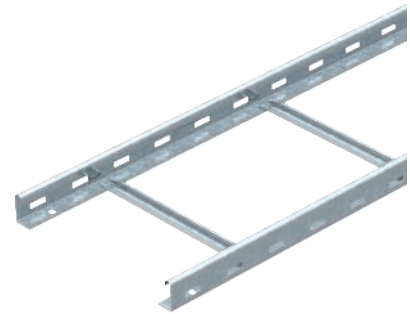
St Steel

FS Strip-galvanised FT Hot-dip galvanised

The cable ladder is shipped folded up.

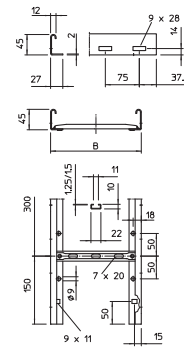
You can find the appropriate U clamp of type 2056N in the vertical ladder systems chapter.

Cable ladder with appropriate side rail of side height 45 mm with riveted C profile rungs, open in an upwards direction.



Type	Length mm	Width mm	Rail thickness mm	Useful cross-section cm ²	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

Dimensions



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

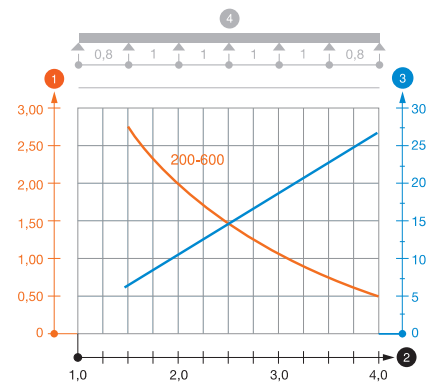
3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Load



Straight connector

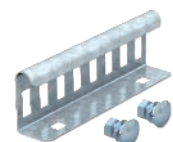
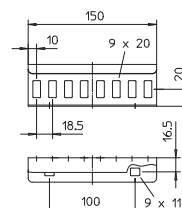
Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
LVG 45 FS	45	10	19.000	6200832
LVG 45 FT	45	10	20.000	6200835

St Steel

FS Strip-galvanised FT Hot-dip galvanised

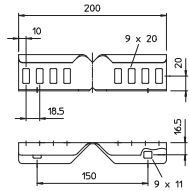
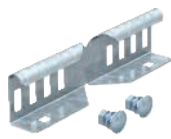
The bolt fastening ensures the continuity of the equipotential bonding.

Straight connector as external connector to connect cable ladders and fittings with a side height of 45 mm and continuous side perforation.



Side height 45 mm

Straight and angle connector

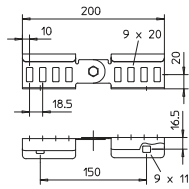
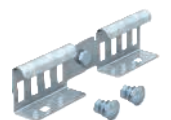


Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
LWVG 45 FS	45	10	17.600	6200882
LWVG 45 A2	45	10	17.600	6200885

St Steel **V2A** Stainless steel, A2
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	23.300	6200926
LGVG 45 FT	45	10	24.500	6200929

St Steel
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.

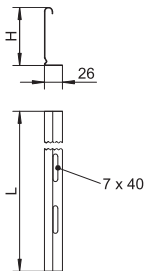
Barrier strip



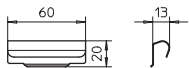
Type	Dimension H mm	Plate thickness mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 30 FS	30	0.75	3000	3	38.000	6062050
TSG 30 DD	30	0.75	3000	3	38.000	6062314

St Steel
FS Strip-galvanised **DD** Strip galvanised zinc/aluminium, double dip

Barrier strip for separation of cables of different voltages or functions.



Separating retainer connector

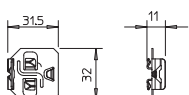


Type	Pack. pcs	Weight kg/100 pcs	Item No.
TSGV A2	10	0.923	6067970

V2A Stainless steel, A2

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Hold-down clamp for separating retainer fastening VA



Type	Pack. pcs	Weight kg/100 pcs	Item No.
KS KL A2	30	0.512	6062284

V2A Stainless steel, A2

Hold-down clamp for screwless fastening of separating retainer in cable ladders.



90° bend

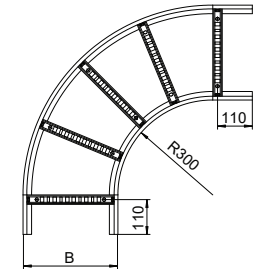
Type	Dimension B mm	Rail thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
LB 90 420 R3 FS	200	1.25	1	196.400	6225002
LB 90 430 R3 FS	300	1.25	1	255.000	6225003
LB 90 440 R3 FS	400	1.25	1	302.200	6225006
LB 90 450 R3 FS	500	1.25	1	378.300	6225008
LB 90 460 R3 FS	600	1.25	1	390.800	6225010
LB 90 420 R3 FT	200	1.25	1	210.100	6225022
LB 90 430 R3 FT	300	1.25	1	272.900	6225024
LB 90 440 R3 FT	400	1.25	1	322.400	6225026
LB 90 450 R3 FT	500	1.25	1	404.300	6225028
LB 90 460 R3 FT	600	1.25	1	459.600	6225030

St Steel

FS Strip-galvanised FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.

90° bend, horizontal, with welded rung for all cable ladder types of 45 mm side height.



90° bend

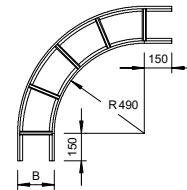
Type	Width mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
LBI 90 420 NS FS	200	1	241.600	6203027
LBI 90 430 NS FS	300	1	275.800	6203035
LBI 90 440 NS FS	400	1	326.700	6203043
LBI 90 450 NS FS	500	1	385.400	6203051
LBI 90 460 NS FS	600	1	457.400	6203078
LBI 90 420 NS FT	200	1	260.600	6203124
LBI 90 430 NS FT	300	1	297.600	6203132
LBI 90 440 NS FT	400	1	352.300	6203140
LBI 90 450 NS FT	500	1	414.300	6203159
LBI 90 460 NS FT	600	1	491.200	6203167

St Steel

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.



Add-on tee

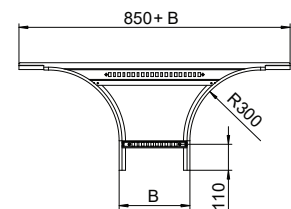
Type	Dimension B mm	Rail thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
LAA 420 R3 FS	200	1.25	1	270.400	6225810
LAA 430 R3 FS	300	1.25	1	296.600	6225812
LAA 440 R3 FS	400	1.25	1	322.900	6225814
LAA 450 R3 FS	500	1.25	1	349.200	6225816
LAA 460 R3 FS	600	1.25	1	375.400	6225818
LAA 420 R3 FT	200	1.25	1	285.500	6225830
LAA 430 R3 FT	300	1.25	1	313.100	6225832
LAA 440 R3 FT	400	1.25	1	331.700	6225834
LAA 450 R3 FT	500	1.25	1	358.400	6225836
LAA 460 R3 FT	600	1.25	1	385.100	6225838

St Steel

FS Strip-galvanised FT Hot-dip galvanised

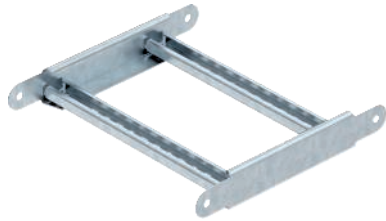
Connectors should be ordered separately and in the appropriate quantity.

Add-on tee with welded rung for use in the cable ladder types with a side height of 45 mm.



Side height 45 mm

Articulated bend element



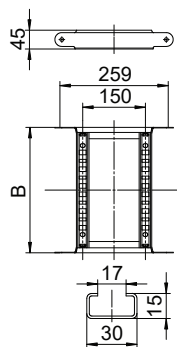
Type	Dimension B mm	Rail thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
LGBE 420 FS	200	1.25	1	65.600	6225410
LGBE 430 FS	300	1.25	1	78.600	6225412
LGBE 440 FS	400	1.25	1	90.500	6225414
LGBE 450 FS	500	1.25	1	104.500	6225416
LGBE 460 FS	600	1.25	1	117.500	6225418
LGBE 420 FT	200	1.25	1	71.600	6225430
LGBE 430 FT	300	1.25	1	85.200	6225432
LGBE 440 FT	400	1.25	1	99.000	6225434
LGBE 450 FT	500	1.25	1	112.800	6225436
LGBE 460 FT	600	1.25	1	126.600	6225438

St Steel

FS Strip-galvanised FT Hot-dip galvanised

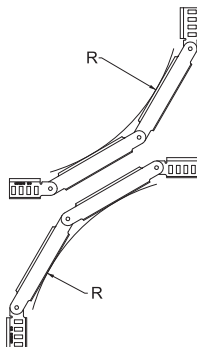
Articulated bend element with welded rung for use in the cable ladder types with a side height of 45 mm.

Dimensions



Type	Dimension B mm	Rail thickness mm
LGBE 420 FS	200	1.25
LGBE 430 FS	300	1.25
LGBE 440 FS	400	1.25
LGBE 450 FS	500	1.25
LGBE 460 FS	600	1.25

Installation

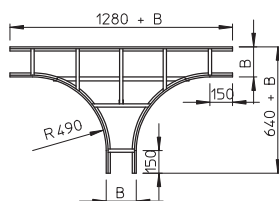
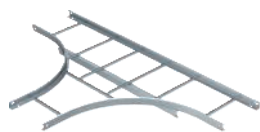


Radius table

Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	approx. 600 mm
4	approx. 750 mm
5	approx. 900 mm

Please order two LGVG 45 articulated connectors separately.

Tee, side height 45 mm



Type	Width mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
LT 420 NS FS	200	1	464.300	6205534
LT 430 NS FS	300	1	543.800	6205542
LT 440 NS FS	400	1	603.800	6205550
LT 450 NS FS	500	1	670.500	6205569
LT 460 NS FS	600	1	775.200	6205577
LT 420 NS FT	200	1	500.300	6205623
LT 430 NS FT	300	1	577.900	6205631
LT 440 NS FT	400	1	649.200	6205658
LT 450 NS FT	500	1	720.200	6205666
LT 460 NS FT	600	1	831.900	6205674

St Steel

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.



Tee, side height 45 mm

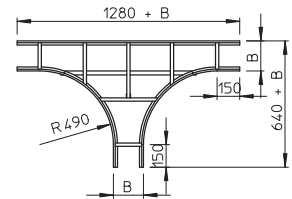
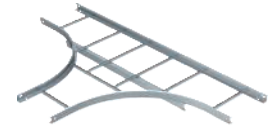
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LT 420 NS FS	200	1	464.300	6205534
LT 430 NS FS	300	1	543.800	6205542
LT 440 NS FS	400	1	603.800	6205550
LT 450 NS FS	500	1	670.500	6205569
LT 460 NS FS	600	1	775.200	6205577
LT 420 NS FT	200	1	500.300	6205623
LT 430 NS FT	300	1	577.900	6205631
LT 440 NS FT	400	1	649.200	6205658
LT 450 NS FT	500	1	720.200	6205666
LT 460 NS FT	600	1	831.900	6205674

St Steel

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.



90° adjustable vertical bend, side height 45 mm

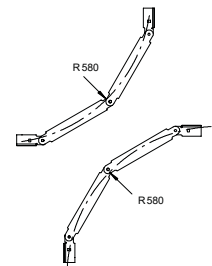
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LGBV 420 NS FS	200	1	174.900	6205038
LGBV 430 NS FS	300	1	191.900	6205046
LGBV 440 NS FS	400	1	218.900	6205054
LGBV 450 NS FS	500	1	245.900	6205062
LGBV 460 NS FS	600	1	261.400	6205070
LGBV 420 NS FT	200	1	186.600	6205127
LGBV 430 NS FT	300	1	205.000	6205135
LGBV 440 NS FT	400	1	223.400	6205143
LGBV 450 NS FT	500	1	255.400	6205151
LGBV 460 NS FT	600	1	276.600	6205178

St Steel

FS Strip-galvanised FT Hot-dip galvanised

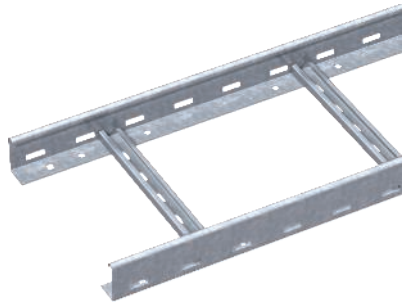
The fitting is shipped in an unmounted state including adjustable connectors and the appropriate bolts.

90° adjustable vertical bend, for all cable ladder types with a side height of 45 mm.



Side height 60 mm

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	247.640	6208506
LG 630 NS 3 FS	300	1.5	3	262.070	6208509
LG 640 NS 3 FS	400	1.5	3	276.070	6208512
LG 650 NS 3 FS	500	1.5	3	301.670	6208515
LG 660 NS 3 FS	600	1.5	3	318.200	6208518
LG 620 NS 6 FS	200	1.5	6	247.640	6208581
LG 630 NS 6 FS	300	1.5	6	262.070	6208584
LG 640 NS 6 FS	400	1.5	6	276.070	6208587
LG 650 NS 6 FS	500	1.5	6	301.733	6208590
LG 660 NS 6 FS	600	1.5	6	318.200	6208593
LG 620 NS 6 FT	200	1.5	6	264.770	6208603
LG 630 NS 6 FT	300	1.5	6	280.100	6208606
LG 640 NS 6 FT	400	1.5	6	295.440	6208609
LG 650 NS 6 FT	500	1.5	6	321.770	6208612
LG 660 NS 6 FT	600	1.5	6	339.440	6208615

Sl Steel

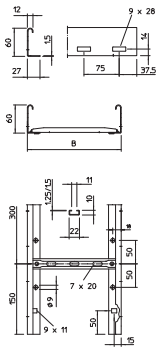
FS Strip-galvanised FT Hot-dip galvanised

The cable ladder is shipped folded up.

You can find the appropriate U clamp of type 2056N in the vertical ladder systems chapter.

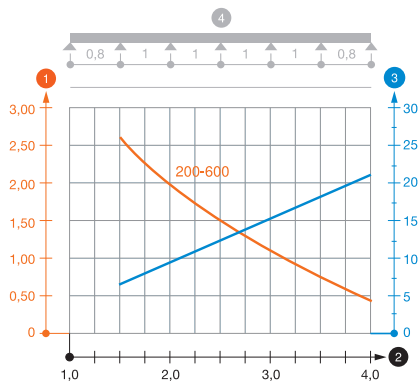
Cable ladder with perforated side rail of side height 60 mm with riveted C profile rungs, open in an upwards direction (NS version).

Dimensions



Type	Length mm	Width mm	Rail thickness mm	Useful cross- section cm ²	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

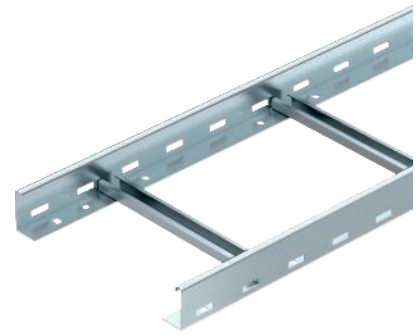
4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width



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	269.750	6208627
LG 630 VS 6 FS	300	1.5	6	293.380	6208630
LG 640 VS 6 FS	400	1.5	6	317.083	6208633
LG 650 VS 6 FS	500	1.5	6	340.750	6208636
LG 660 VS 6 FS	600	1.5	6	364.750	6208639
LG 620 VS 6 FT	200	1.5	6	287.583	6208650
LG 630 VS 6 FT	300	1.5	6	312.916	6208653
LG 640 VS 6 FT	400	1.5	6	337.916	6208656
LG 650 VS 6 FT	500	1.5	6	363.250	6208659
LG 660 VS 6 FT	600	1.5	6	388.916	6208661

St Steel

FS Strip-galvanised FT Hot-dip galvanised

The cable ladder is shipped folded up.

Cables can be mounted with the matching clamp clip, type 2056.

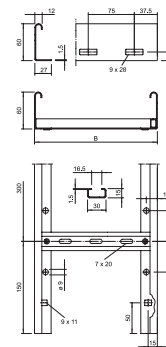
The cable ladders in the widths 200 mm to 400 mm are also approved for vertical mounting as a vertical ladder in systems with electrical functional maintenance according to DIN 4102 Part 12.

Cables can be mounted with the clamp clip approved for function maintenance, type 2056 M.

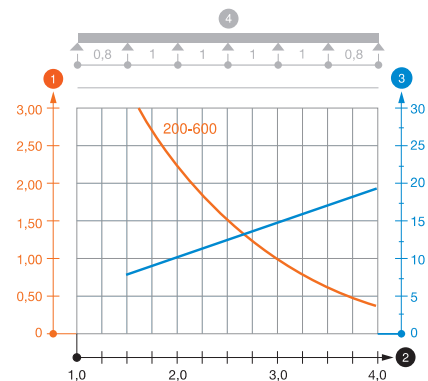
Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

Type	Length mm	Width mm	Rail thickness mm	Useful cross-section cm ²	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

Dimensions



Load



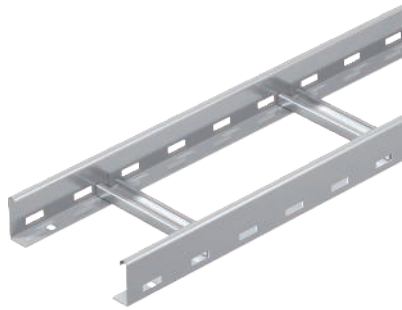
Type	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LG 620 VS 3 FS	2.25	1.5	1.1	0.45
LG 630 VS 3 FS	2.25	1.5	1.1	0.45
LG 640 VS 3 FS	2.25	1.5	1.1	0.45
LG 650 VS 3 FS	2.25	1.5	1.1	0.45
LG 660 VS 3 FS	2.25	1.5	1.1	0.45

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

Side height 60 mm

Cable ladder LG 60 VS



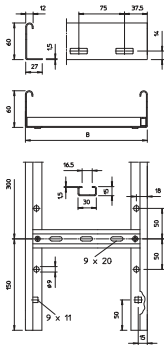
Type	Rail		Pack. m	Weight kg/100 m	Item No.
	Width mm	thickness mm			
LG 620 VS6 A2	200	1.5	6	273.800	6208700
LG 630 VS6 A2	300	1.5	6	298.000	6208703
LG 640 VS6 A2	400	1.5	6	322.200	6208706
LG 650 VS6 A2	500	1.5	6	346.300	6208709
LG 660 VS6 A2	600	1.5	6	378.300	6208712
LG 620 VS6 A4	200	1.5	6	273.800	6101200
LG 630 VS6 A4	300	1.5	6	298.000	6101208
LG 640 VS6 A4	400	1.5	6	322.200	6101216
LG 650 VS6 A4	500	1.5	6	346.300	6101223
LG 660 VS6 A4	600	1.5	6	378.300	6101232

V2A Stainless steel, A2 V4A Stainless steel, A4

You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

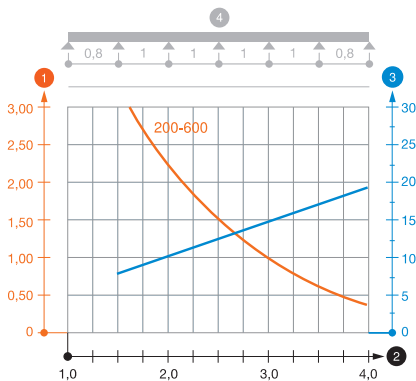
Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

Dimensions



Type	Length mm	Width mm	Useful cross-section cm ²	Rung spacing mm
LG 630 VS6 A2	6000	300	148	300
LG 640 VS6 A2	6000	400	198	300
LG 650 VS6 A2	6000	500	248	300
LG 660 VS6 A2	6000	600	298	300

Load



Type	1.5 m	2.0 m	2.5 m	3.0 m	3.5 m	4.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m	kN/m
LG 620 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45
LG 630 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45
LG 640 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45
LG 650 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45
LG 660 VS6 A2	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



Cable ladder LCIS

Type	Rail		Pack.	Weight		Item No.
	Width mm	thickness mm		m	kg/100 m	
LCIS 620 3 FS	200	1.5	3	266.670	6209610	
LCIS 630 3 FS	300	1.5	3	288.670	6209612	
LCIS 640 3 FS	400	1.5	3	310.340	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

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 clamping pieces, type LKS 40. The slot dimension of the rung is 16.5 mm and the appropriate clamp clip is type 2056.

Type	Length mm	Width mm	Rail thickness mm	Useful cross-section cm ²	Rung spacing mm
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

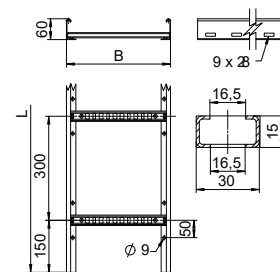
Type	1.5 m	2.0 m	2.5 m	3.0 m	4.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
LCIS 620 3 FS	3.3	2	1.3	1	0.4
LCIS 630 3 FS	3.3	2	1.3	1	0.4
LCIS 640 3 FS	3.3	2	1.3	1	0.4
LCIS 650 3 FS	3.3	2	1.3	1	0.4
LCIS 660 3 FS	3.3	2	1.3	1	0.4

Load diagram LCIS 60

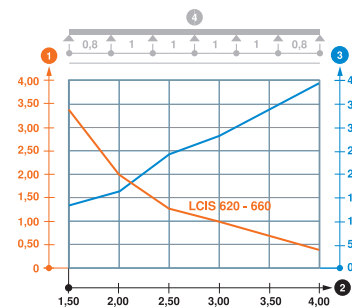
- 1 Permitted cable tray/ladder load in kN/m without man load
- 2 Support width in m
- 3 Rail bend in mm at permitted kN/m
- 4 Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



Dimensions



Load



Side height 60 mm

Cable ladder LCIS

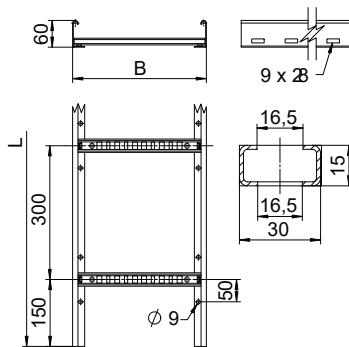


Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
LCIS 620 6 A2	200	1.5	6	267.000	6207252
LCIS 630 6 A2	300	1.5	6	288.840	6207254
LCIS 640 6 A2	400	1.5	6	310.500	6207256
LCIS 650 6 A2	500	1.5	6	332.340	6207258
LCIS 660 6 A2	600	1.5	6	354.000	6207260
LCIS 620 6 A4	200	1.5	6	267.000	6207202
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

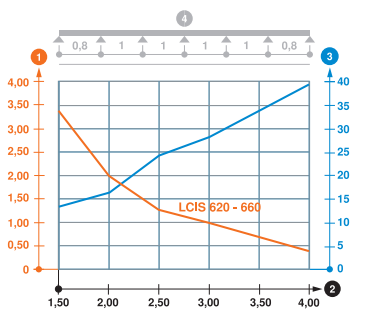
Cable ladder with 60 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamps, type LKS 40. The slot dimension of the frame is 16.5 mm and the appropriate U clamps clip is type 2056.

Dimensions



Type	Length mm	Width mm	Rail thickness mm	Useful cross- section cm ²	Rung spacing mm
LCIS 620 6 A2	—	200	1.5	80	300
LCIS 630 6 A2	—	300	1.5	120	300
LCIS 640 6 A2	—	400	1.5	160	300
LCIS 650 6 A2	—	500	1.5	200	300
LCIS 660 6 A2	—	600	1.5	240	300

Load

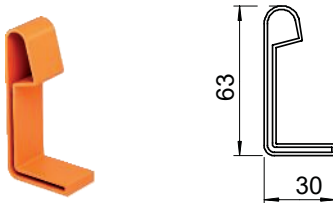


Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LCIS 620 6 A2	3.3	2	1.3	1	0.4
LCIS 630 6 A2	3.3	2	1.3	1	0.4
LCIS 640 6 A2	3.3	2	1.3	1	0.4
LCIS 650 6 A2	3.3	2	1.3	1	0.4
LCIS 660 6 A2	3.3	2	1.3	1	0.4

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	1.072	6222537

PE Polyethylene

End cap to cover cable ladder ends of side height 60 mm.



Straight connector

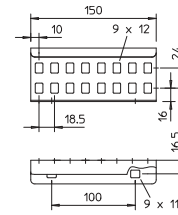
Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
LVG 60 FS	60	10	22.000	6208840
LVG 60 FT	60	10	23.000	6208843
LVG 60 A2	60	10	22.000	6208846
LVG 60 A4	60	10	20.000	6208835

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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 connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
LDVG 60 FT	60	2	61.700	6208970

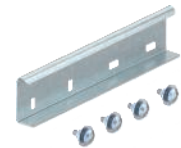
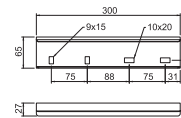
St Steel

FT Hot-dip galvanised

Connector for expansion for compensation of linear thermal expansion. The tightening torques of the self-locking screws on the loose bearing side are 5 Nm.

Positioning of expansion connectors

Metal temperature difference	Maximum spacing between expansion connectors
10°C	70 metre
25°C	47 metre
40°C	35 metre
50°C	28 metre
65°C	23 metre
80°C	20 metre



Installation

Straight and angle connector

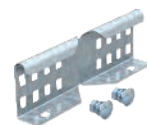
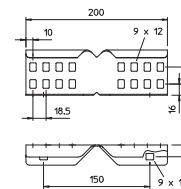
Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
LWVG 60 FS	60	10	24.000	6208895
LWVG 60 A2	60	10	24.000	6208898
LWVG 60 A4	60	10	24.256	6208891

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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

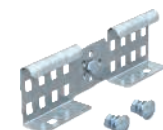
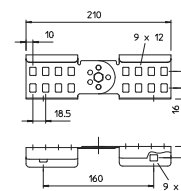
Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
LGVG 60 FS	60	10	28.500	6208941
LGVG 60 FT	60	10	29.900	6208944
LGVG 60 A2	60	10	28.500	6208947
LGVG 60 A4	60	10	28.500	6208932

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FS Strip-galvanised FT Hot-dip galvanised

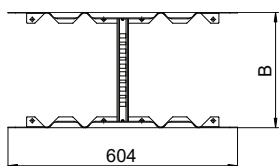
The bolt fastening ensures the continuity of the equipotential bonding.

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.



Side height 60 mm

Multifunctional connector



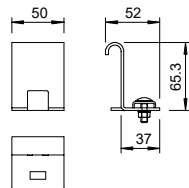
Type	Dimen- sion B mm	Side height mm	Pack. pcs	Weight		Item No.
				kg/100 pcs.		
LMFV 620 FS	200	60	1	123.200		6225710
LMFV 630 FS	300	60	1	129.700		6225712
LMFV 640 FS	400	60	1	136.200		6225714
LMFV 650 FS	500	60	1	142.800		6225716
LMFV 660 FS	600	60	1	149.300		6225718
LMFV 620 FT	200	60	1	130.600		6225730
LMFV 630 FT	300	60	1	137.500		6225732
LMFV 640 FT	400	60	1	144.400		6225734
LMFV 650 FT	500	60	1	151.300		6225736
LMFV 660 FT	600	60	1	158.200		6225738

St Steel

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 between 0–60° and mounting/branch pieces can be created.

Connector



Type	Pack. pcs	Weight		Item No.
		kg/100 pcs.		
LAS 60 FS	10	13.000		6221351
LAS 60 FT	10	13.600		6221378
LAS 60 A2	10	13.000		6221386

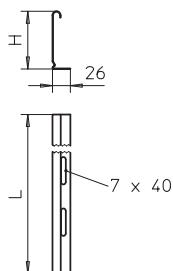
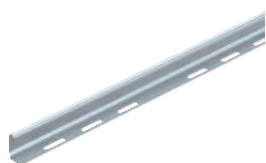
St Steel V2A Stainless steel, A2

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.

Separating retainer



Type	Dimen- sion H mm	Plate thickness mm	Dimen- sion L mm	Pack. m	Weight		Item No.
					kg/100 m		
TSG 45 FS	45	0.75	3000	3	46.700		6062033
TSG 45 DD	45	0.75	3000	3	46.800		6062321
TSG 45 A2	45	0.75	3000	3	47.000		6062025
TSG 45 A4	45	0.75	3000	3	48.000		6062028

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FS Strip-galvanised DD Strip galvanised zinc/aluminium, double dip

Separating retainer for separation of cables of different voltages or functions.

Separating retainer connector



Type	Pack. pcs	Weight		Item No.
		kg/100 pcs.		
TSGV A2	10	0.923		6067970

V2A Stainless steel, A2

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

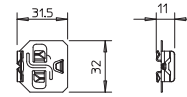


Hold-down clamp for separating retainer fastening VA

Type	Pack. pcs	Weight kg/100 pcs.	Item No.

V2A Stainless steel, A2

Hold-down clamp for screwless fastening of separating retainer in cable ladders.



90° bend

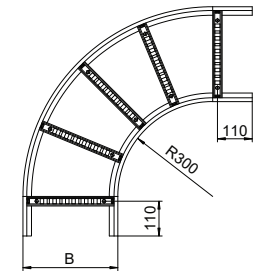
Type	Dimen- sion B mm	Rail thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LB 90 630 R3 FS	300	1.5	1	318.300	6225044
LB 90 640 R3 FS	400	1.5	1	368.700	6225046
LB 90 650 R3 FS	500	1.5	1	451.900	6225048
LB 90 660 R3 FS	600	1.5	1	508.900	6225050
LB 90 620 R3 FT	200	1.5	1	269.800	6225062
LB 90 630 R3 FT	300	1.5	1	338.500	6225064
LB 90 640 R3 FT	400	1.5	1	392.100	6225066
LB 90 650 R3 FT	500	1.5	1	480.700	6225068
LB 90 660 R3 FT	600	1.5	1	536.500	6225070
LB 90 620 R3 A2	200	1.5	1	257.800	6225082
LB 90 630 R3 A2	300	1.5	1	322.300	6225084
LB 90 640 R3 A2	400	1.5	1	373.400	6225086
LB 90 650 R3 A2	500	1.5	1	457.700	6225088
LB 90 660 R3 A2	600	1.5	1	515.400	6225090
LB 90 620 R3 A4	200	1.5	1	261.000	6225102
LB 90 630 R3 A4	300	1.5	1	326.400	6225104
LB 90 640 R3 A4	400	1.5	1	378.200	6225106
LB 90 650 R3 A4	500	1.5	1	463.500	6225108
LB 90 660 R3 A4	600	1.5	1	521.900	6225110

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FS Strip-galvanised FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.

90° bend, horizontal, with welded rung for all cable ladder types of 60 mm side height.



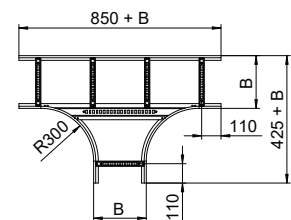
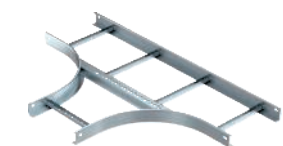
Type	Dimen- sion B mm	Rail thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LT 630 R3 FS	300	1.5	1	531.000	6225212
LT 640 R3 FS	400	1.5	1	619.700	6225214
LT 650 R3 FS	500	1.5	1	688.600	6225216
LT 660 R3 FS	600	1.5	1	757.400	6225218
LT 620 R3 FT	200	1.5	1	494.800	6225230
LT 630 R3 FT	300	1.5	1	595.500	6225232
LT 640 R3 FT	400	1.5	1	656.500	6225234
LT 650 R3 FT	500	1.5	1	729.500	6225236
LT 660 R3 FT	600	1.5	1	797.100	6225238
LT 620 R3 A2	200	1.5	1	474.600	6225250
LT 630 R3 A2	300	1.5	1	537.800	6225252
LT 640 R3 A2	400	1.5	1	627.700	6225254
LT 650 R3 A2	500	1.5	1	697.400	6225256
LT 660 R3 A2	600	1.5	1	767.200	6225258
LT 620 R3 A4	200	1.5	1	480.600	6225270
LT 630 R3 A4	300	1.5	1	544.700	6225272
LT 640 R3 A4	400	1.5	1	635.600	6225274
LT 650 R3 A4	500	1.5	1	706.200	6225276
LT 660 R3 A4	600	1.5	1	776.900	6225278

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FS Strip-galvanised FT Hot-dip galvanised

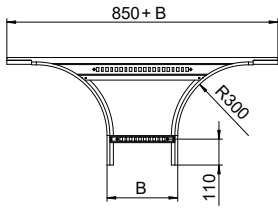
Connectors should be ordered separately and in the appropriate quantity.

Tee, horizontal, with welded rung for all cable ladder types of 60 mm side height.



Side height 60 mm

Mounting/branch piece



Type	Dimen- sion B mm	Rail thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LAA 620 R3 FS	200	1.5	1	318.300	6225850
LAA 630 R3 FS	300	1.5	1	344.900	6225852
LAA 640 R3 FS	400	1.5	1	371.400	6225854
LAA 650 R3 FS	500	1.5	1	397.900	6225856
LAA 660 R3 FS	600	1.5	1	424.500	6225858
LAA 620 R3 FT	200	1.5	1	336.800	6225870
LAA 630 R3 FT	300	1.5	1	364.700	6225872
LAA 640 R3 FT	400	1.5	1	392.700	6225874
LAA 650 R3 FT	500	1.5	1	420.600	6225876
LAA 660 R3 FT	600	1.5	1	448.700	6225878
LAA 620 R3 A2	200	1.5	1	318.300	6225882
LAA 630 R3 A2	300	1.5	1	344.900	6225884
LAA 640 R3 A2	400	1.5	1	371.400	6225886
LAA 650 R3 A2	500	1.5	1	397.900	6225888
LAA 660 R3 A2	600	1.5	1	424.500	6225890
LAA 620 R3 A4	200	1.5	1	318.300	6225894
LAA 630 R3 A4	300	1.5	1	344.900	6225896
LAA 640 R3 A4	400	1.5	1	371.400	6225898
LAA 650 R3 A4	500	1.5	1	397.900	6225900
LAA 660 R3 A4	600	1.5	1	424.500	6225902

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FS Strip-galvanised FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.



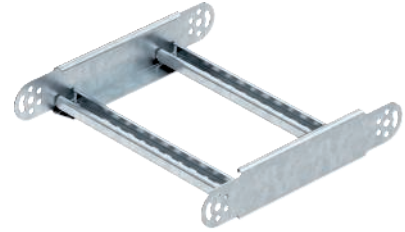
Articulated bend element

Type	Dimension B mm	Rail thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
LGBE 620 FS	200	1.5	1	84.000	6225450
LGBE 630 FS	300	1.5	1	97.000	6225452
LGBE 640 FS	400	1.5	1	109.900	6225454
LGBE 650 FS	500	1.5	1	122.900	6225456
LGBE 660 FS	600	1.5	1	135.900	6225458
LGBE 620 FT	200	1.5	1	89.000	6225470
LGBE 630 FT	300	1.5	1	102.600	6225472
LGBE 640 FT	400	1.5	1	116.400	6225474
LGBE 650 FT	500	1.5	1	130.200	6225476
LGBE 660 FT	600	1.5	1	144.000	6225478
LGBE 620 A2	200	1.5	1	84.000	6225460
LGBE 630 A2	300	1.5	1	97.000	6225462
LGBE 640 A2	400	1.5	1	109.900	6225464
LGBE 650 A2	500	1.5	1	122.900	6225466
LGBE 660 A2	600	1.5	1	135.900	6225468
LGBE 620 A4	200	1.5	1	84.000	6225480
LGBE 630 A4	300	1.5	1	97.000	6225482
LGBE 640 A4	400	1.5	1	109.900	6225484
LGBE 650 A4	500	1.5	1	122.900	6225486
LGBE 660 A4	600	1.5	1	135.900	6225488

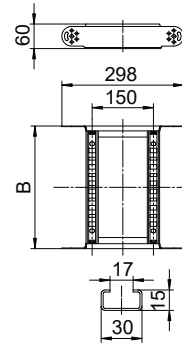
St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FS Strip-galvanised FT Hot-dip galvanised

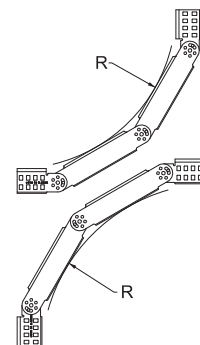
Adjustable bend element with welded rung for use in the cable ladder types with a side height of 60 mm.



Dimensions



Installation



Radius table

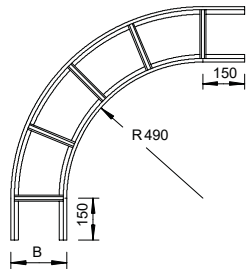
Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	approx. 600 mm
4	approx. 750 mm
5	approx. 900 mm

Please order two LGVG 60 articulated connectors separately.



Side height 60 mm

90° bend, VS rung, side height 60 mm



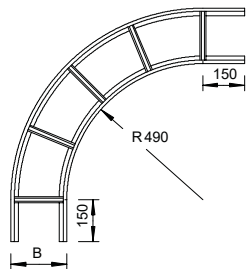
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LBI 90 620 VS FS	200	1	358.000	6211224
LBI 90 630 VS FS	300	1	412.000	6211232
LBI 90 640 VS FS	400	1	497.000	6211240
LBI 90 650 VS FS	500	1	558.000	6211259
LBI 90 660 VS FS	600	1	664.000	6211267
LBI 90 620 VS FT	200	1	380.000	6211321
LBI 90 630 VS FT	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
LBI 90 620 VS A2	200	1	358.000	7160046
LBI 90 630 VS A2	300	1	412.000	7160054
LBI 90 640 VS A2	400	1	497.000	7160062
LBI 90 650 VS A2	500	1	558.000	7160089
LBI 90 660 VS A2	600	1	664.000	7160097

St Steel V2A Stainless steel, A2
 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.

90° bend, NS rung, side height 60 mm



Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LBI 90 620 NS FS	200	1	326.000	6211038
LBI 90 630 NS FS	300	1	365.500	6211046
LBI 90 640 NS FS	400	1	422.000	6211054
LBI 90 650 NS FS	500	1	504.200	6211062
LBI 90 660 NS FS	600	1	563.800	6211070
LBI 90 620 NS FT	200	1	347.700	6211127
LBI 90 630 NS FT	300	1	390.100	6211135
LBI 90 640 NS FT	400	1	450.800	6211143
LBI 90 650 NS FT	500	1	518.100	6211151
LBI 90 660 NS FT	600	1	600.900	6211178

St Steel
 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.



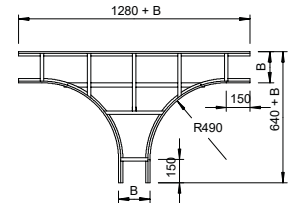
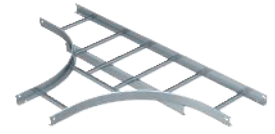
Tee, VS rung, side height 60 mm

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
LT 620 VS A2	200	1	680.000	7162022
LT 630 VS A2	300	1	795.000	7162049
LT 640 VS A2	400	1	879.000	7162057
LT 650 VS A2	500	1	962.000	7162073
LT 660 VS A2	600	1	1,104.000	7162081

St Steel V2A Stainless steel, A2
 FS Strip-galvanised FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.

Tee, VS rung, side height 60 mm, horizontal, for cable ladders with medium-duty rungs (VS) and a side height of 60 mm.



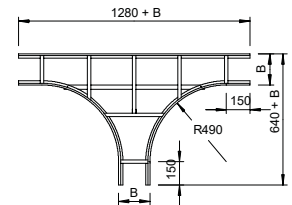
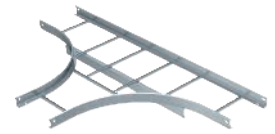
T piece, NS rung, side height 60 mm

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LT 620 NS FS	200	1	615.300	6213529
LT 630 NS FS	300	1	700.900	6213537
LT 640 NS FS	400	1	767.600	6213545
LT 650 NS FS	500	1	841.000	6213553
LT 660 NS FS	600	1	952.300	6213561
LT 620 NS FT	200	1	656.400	6213634
LT 630 NS FT	300	1	733.900	6213642
LT 640 NS FT	400	1	818.600	6213650
LT 650 NS FT	500	1	896.500	6213669
LT 660 NS FT	600	1	1,013.800	6213677

St Steel
 FS Strip-galvanised FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.

Horizontal t, for cable ladders with light-duty rungs (NS) and a side height of 60 mm.



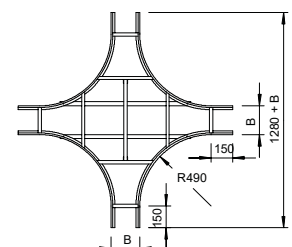
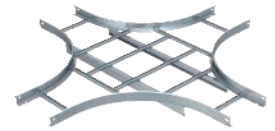
Cross-over, VS rung, side height 60 mm

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
 FS Strip-galvanised FT Hot-dip galvanised

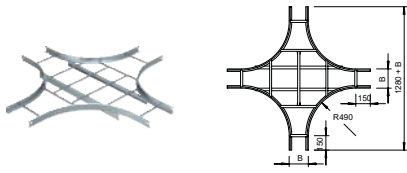
Connectors should be ordered separately and in the appropriate quantity.

Horizontal cross-over for cable ladders with medium-duty rungs (VS) and a side height of 60 mm.



Side height 60 mm

Cross-over, NS rung, side height 60 mm



Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LK 620 NS FS	200	1	845.100	6214029
LK 630 NS FS	300	1	962.100	6214037
LK 640 NS FS	400	1	1,032.600	6214045
LK 650 NS FS	500	1	1,124.300	6214053
LK 660 NS FS	600	1	1,255.800	6214061
LK 620 NS FT	200	1	901.700	6214134
LK 630 NS FT	300	1	1,025.700	6214142
LK 640 NS FT	400	1	1,101.100	6214150
LK 650 NS FT	500	1	1,198.100	6214169
LK 660 NS FT	600	1	1,335.700	6214177

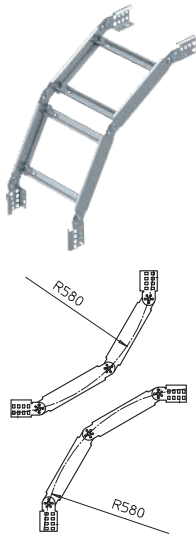
St Steel

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.

Adjustable bend, vertical, VS rung, side height 60 mm



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

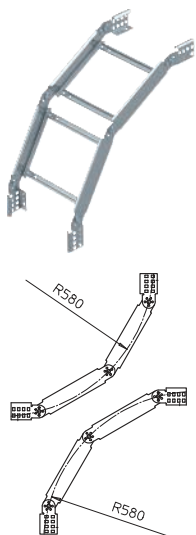
St Steel

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.

Adjustable bend, vertical, NS rung, side height 60 mm



Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LGBV 620 NS FS	200	1	236.500	6213022
LGBV 630 NS FS	300	1	253.600	6213030
LGBV 640 NS FS	400	1	270.600	6213049
LGBV 650 NS FS	500	1	301.200	6213057
LGBV 660 NS FS	600	1	321.100	6213065
LGBV 620 NS FT	200	1	249.900	6213138
LGBV 630 NS FT	300	1	268.300	6213146
LGBV 640 NS FT	400	1	286.700	6213154
LGBV 650 NS FT	500	1	318.700	6213162
LGBV 660 NS FT	600	1	339.900	6213170

St Steel

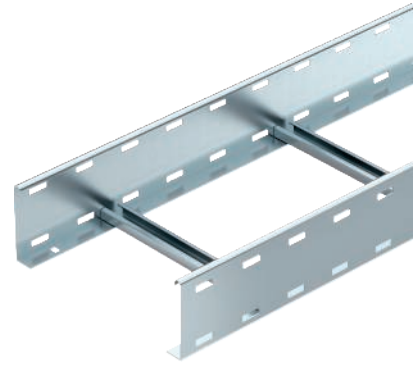
FS Strip-galvanised **FT** Hot-dip galvanised

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.



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

FS Strip-galvanised FT Hot-dip galvanised

The cable ladder is shipped folded up.

You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 110 mm with riveted C profile rungs, open in an upwards direction.

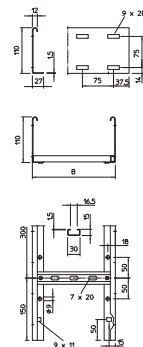
Type	Length mm	Width mm	Rail thickness mm	Useful cross- section cm ²	Rung spacing mm
LG 112 VS 3 FS	3000	200	1.5	188	300
LG 113 VS 3 FS	3000	300	1.5	283	300
LG 114 VS 3 FS	3000	400	1.5	378	300
LG 115 VS 3 FS	3000	500	1.5	475	300
LG 116 VS 3 FS	3000	600	1.5	568	300

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

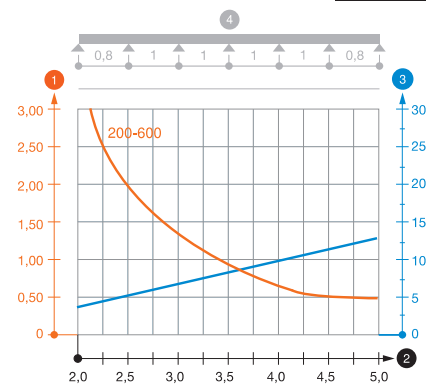
Load diagram, cable ladder, type LG 110 VS

- 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

Dimensions

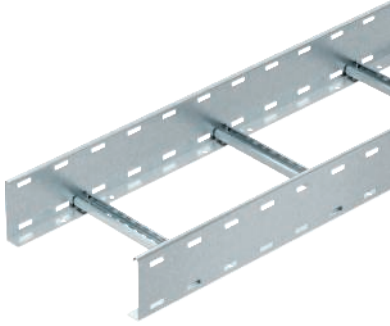


Load



Side height 110 mm

Cable ladder LCIS



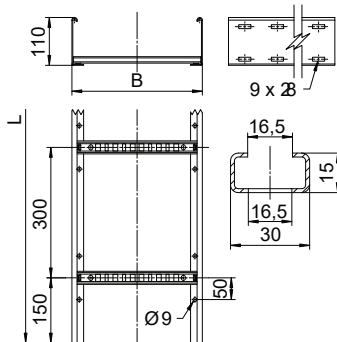
Type	Rail		Pack.	Weight	Item No.
	Width	thickness			
	mm	mm	m	kg/100 m	
LCIS 1120 6 FT	200	1.5	6	399.200	6209820
LCIS 1130 6 FT	300	1.5	6	422.534	6209822
LCIS 1140 6 FT	400	1.5	6	446.200	6209824
LCIS 1145 6 FT	450	1.5	6	459.534	6209825
LCIS 1150 6 FT	500	1.5	6	469.867	6209826
LCIS 1160 6 FT	600	1.5	6	491.670	6209828

Sl Steel

FT Hot-dip galvanised

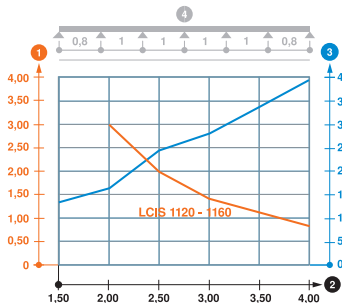
Cable ladder with 110 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamps, type LKS 40. The slot dimension of the frame is 16.5 mm and the appropriate U clamps clip is type 2056.

Dimensions



Type	Length	Width	Rail	Useful	Rung
	mm	mm	mm	section	mm
				cm ²	
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 1145 6 FT	6000	450	1.5	405	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	2.5 m	3.0 m	4.0 m
	kN/m	kN/m	kN/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 1145 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



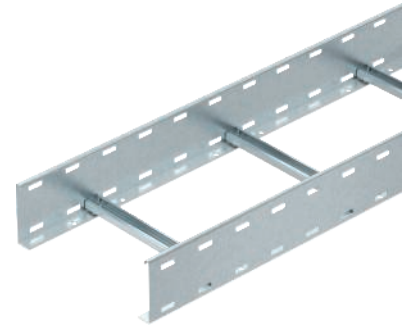
Cable ladder SLCS

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

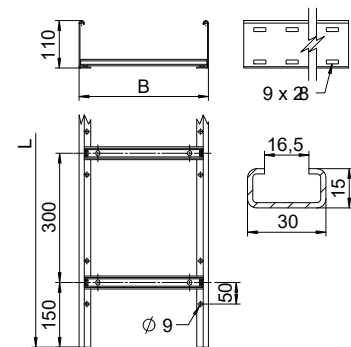
St Steel

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 U clamps clip is type 2056.

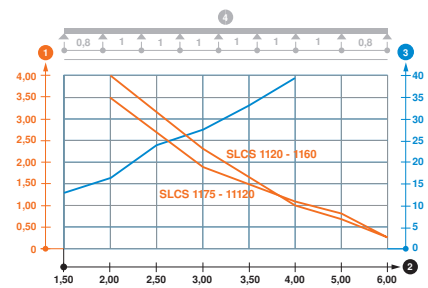


Dimensions



Type	Length mm	Width mm	Rail thickness mm	Useful cross- section cm ²	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	5.0 m kN/m	6.0 m kN/m
SLCS 1120 3 FT	4	2.3	1	0.7	0.25
SLCS 1130 3 FT	4	2.3	1	0.7	0.25
SLCS 1140 3 FT	4	2.3	1	0.7	0.25
SLCS 1150 3 FT	4	2.3	1	0.7	0.25
SLCS 1160 3 FT	4	2.3	1	0.7	0.25

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

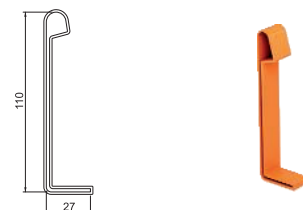
— Strut bend curve according to support width

Type	Colour	Pack. pair	Weight kg/100 pairs	Item No.
SKH 110 OR	Pastel orange	20	1.345	6222553

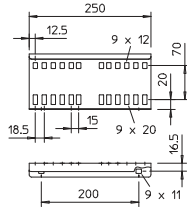
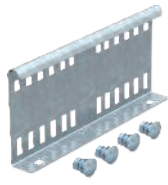
PE Polyethylene

Protective cap to cover cable ladder ends of side height 110 mm

End cap



Straight connector

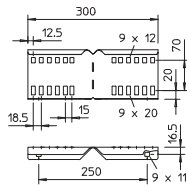
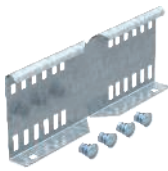


Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
LVG 110 FS	110	10	51.000	6216545
LVG 110 FT	110	10	44.900	6216548

St Steel
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.

Straight and angle connector

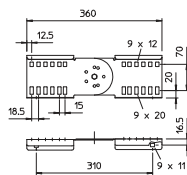
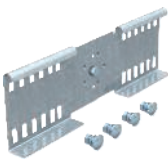


Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
LWVG 110 FS	110	10	48.800	6216587
LWVG 110 A2	110	10	48.800	6216590

St Steel **V2A** Stainless steel, A2
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

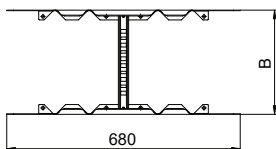


Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
LGVG 110 FS	110	10	61.000	6216650
LGVG 110 FT	110	10	65.000	6216653

St Steel
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.

Multifunctional connector



Type	Dimen- sion B mm	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
LMFV 1120 FS	200	110	1	208.100	6225750
LMFV 1130 FS	300	110	1	214.600	6225752
LMFV 1140 FS	400	110	1	221.100	6225754
LMFV 1150 FS	500	110	1	227.600	6225756
LMFV 1160 FS	600	110	1	234.000	6225758
LMFV 1120 FT	200	110	1	221.300	6225770
LMFV 1130 FT	300	110	1	228.200	6225772
LMFV 1140 FT	400	110	1	235.100	6225774
LMFV 1145 FT	450	110	1	238.500	6225776
LMFV 1150 FT	500	110	1	241.900	6225778
LMFV 1160 FT	600	110	1	248.800	6225780

St Steel
FS Strip-galvanised **FT** Hot-dip galvanised

Multifunctional connector for joining cable ladders with a side height of 110 mm. Symmetrical and asymmetrical reductions, infinitely-adjustable bends between 0–60° and mounting/branch pieces can be created.



Type	Pack. pcs	Weight kg/100 pcs	Item No.
LAS 110 FS	10	17.900	6221416
LAS 110 FT	10	18.700	6221424

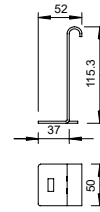
St Steel

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.

Connector



Separating retainer

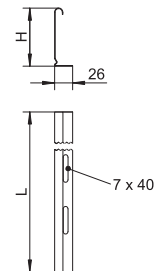
Type	Dimension H mm	Plate thickness mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 85 FS	85	0.75	3000	3	70.300	6062114
TSG 85 DD	85	0.75	3000	3	70.300	6062331
TSG 85 A2	85	0.75	3000	3	69.670	6062173

St Steel

V2A Stainless steel, A2

FS Strip-galvanised DD Strip galvanised zinc/aluminium, double dip

Separating retainer for separation of cables of different voltages or functions.



Separating retainer connector

Type	Pack. pcs	Weight kg/100 pcs	Item No.
TSGV A2	10	0.923	6067970

V2A Stainless steel, A2

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

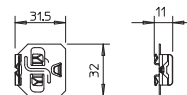


Hold-down clamp for separating retainer fastening VA

Type	Pack. pcs	Weight kg/100 pcs	Item No.
KS KL A2	30	0.512	6062284

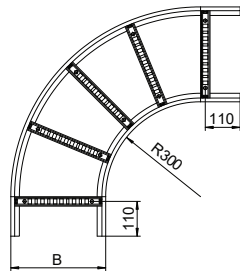
V2A Stainless steel, A2

Hold-down clamp for screwless fastening of separating retainer in cable ladders.



Side height 110 mm

90° bend



Type	Dimension B mm	Rail thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LB 90 1120 R3 FS	200	1.5	1	355.300	6225122
LB 90 1130 R3 FS	300	1.5	1	428.300	6225124
LB 90 1140 R3 FS	400	1.5	1	488.000	6225126
LB 90 1150 R3 FS	500	1.5	1	580.400	6225128
LB 90 1160 R3 FS	600	1.5	1	646.500	6225130
LB 90 1120 R3 FT	200	1.5	1	379.700	6225142
LB 90 1130 R3 FT	300	1.5	1	457.900	6225144
LB 90 1140 R3 FT	400	1.5	1	521.400	6225146
LB 90 1145 R3 FT	450	1.5	1	555.800	6225148
LB 90 1150 R3 FT	500	1.5	1	619.600	6225150
LB 90 1160 R3 FT	600	1.5	1	688.700	6225152

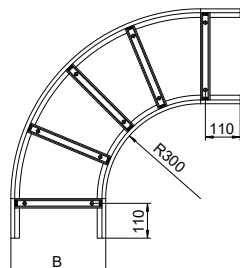
St Steel

FS Strip-galvanised FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.

90° bend, horizontal, with welded rung for all cable ladder types of 110 mm side height.

90° bend



Type	Dimension B mm	Rail thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SLB 90 1120R3 FT	200	2	1	493.100	6225172
SLB 90 1130R3 FT	300	2	1	593.200	6225174
SLB 90 1140R3 FT	400	2	1	678.300	6225176
SLB 90 1150R3 FT	500	2	1	809.600	6225180
SLB 90 1160R3 FT	600	2	1	919.200	6225182

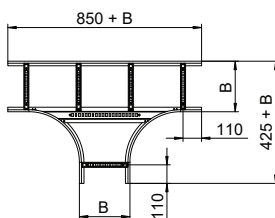
St Steel

FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.

90° bend, horizontal, with welded rung for all cable ladder types of 110 mm side height.

Tee



Type	Dimension B mm	Rail thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LT 1120 R3 FS	200	1.5	1	611.800	6225290
LT 1130 R3 FS	300	1.5	1	680.000	6225292
LT 1140 R3 FS	400	1.5	1	774.500	6225294
LT 1150 R3 FS	500	1.5	1	849.300	6225296
LT 1160 R3 FS	600	1.5	1	924.000	6225298
LT 1120 R3 FT	200	1.5	1	651.500	6225310
LT 1130 R3 FT	300	1.5	1	781.100	6225312
LT 1140 R3 FT	400	1.5	1	882.600	6225314
LT 1150 R3 FT	500	1.5	1	963.100	6225318
LT 1160 R3 FT	600	1.5	1	982.900	6225320

St Steel

FS Strip-galvanised FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.

Tee, horizontal, with welded rung for all cable ladder types of 110 mm side height.



Tee

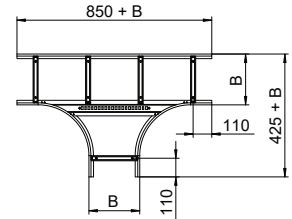
Type	Dimension B mm	Rail thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SLT 1120 R3 FT	200	2	1	807.400	6225350
SLT 1130 R3 FT	300	2	1	969.800	6225352
SLT 1140 R3 FT	400	2	1	1,099.200	6225354
SLT 1150 R3 FT	500	2	1	1,200.500	6225358
SLT 1160 R3 FT	600	2	1	1,251.100	6225360

Sl Steel

FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.

Tee, horizontal, with welded rung for all cable ladder types of 110 mm side height.



Mounting/branch piece

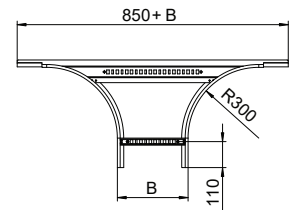
Type	Dimension B mm	Rail thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LAA 1120 R3 FS	200	1.5	1	405.300	6225910
LAA 1130 R3 FS	300	1.5	1	434.300	6225912
LAA 1140 R3 FS	400	1.5	1	457.900	6225914
LAA 1150 R3 FS	500	1.5	1	484.100	6225916
LAA 1160 R3 FS	600	1.5	1	510.400	6225918
LAA 1120 R3 FT	200	1.5	1	426.100	6225930
LAA 1130 R3 FT	300	1.5	1	454.600	6225932
LAA 1140 R3 FT	400	1.5	1	482.200	6225934
LAA 1145 R3 FT	450	1.5	1	497.200	6225936
LAA 1150 R3 FT	500	1.5	1	509.800	6225938
LAA 1160 R3 FT	600	1.5	1	536.300	6225940

Sl Steel

FS Strip-galvanised FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.

Mounting/branch piece with welded rung for all cable ladder types of 110 mm side height.



Mounting/branch piece

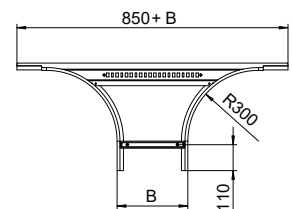
Type	Dimension B mm	Rail thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SLAA 1120 R3 FT	200	2	1	498.800	6225950
SLAA 1130 R3 FT	300	2	1	528.200	6225952
SLAA 1140 R3 FT	400	2	1	558.400	6225954
SLAA 1150 R3 FT	500	2	1	588.500	6225958
SLAA 1160 R3 FT	600	2	1	621.100	6225960

Sl Steel

FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.

Mounting/branch piece with welded rung for all cable ladder types of 110 mm side height.



Side height 110 mm

Articulated bend element



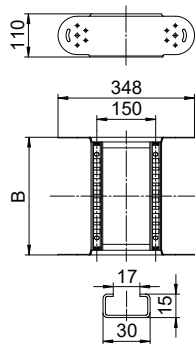
Type	Dimension B mm	Rail thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LGBE 1120 FS	200	1.5	1	124.600	6225490
LGBE 1130 FS	300	1.5	1	137.600	6225492
LGBE 1140 FS	400	1.5	1	150.500	6225494
LGBE 1150 FS	500	1.5	1	163.500	6225496
LGBE 1160 FS	600	1.5	1	176.300	6225498
LGBE 1120 FT	200	1.5	1	133.100	6225510
LGBE 1130 FT	300	1.5	1	146.100	6225512
LGBE 1140 FT	400	1.5	1	160.500	6225514
LGBE 1145 FT	450	1.5	1	167.400	6225516
LGBE 1150 FT	500	1.5	1	174.300	6225518
LGBE 1160 FT	600	1.5	1	188.100	6225520

St Steel

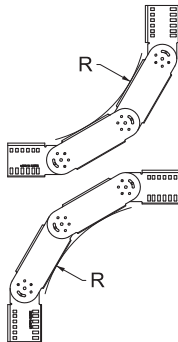
FS Strip-galvanised FT Hot-dip galvanised

Articulated bend element with welded rung for use in the cable ladder types with a side height of 110 mm.

Dimensions



Installation



Radius table

Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	approx. 600 mm
4	approx. 750 mm
5	approx. 900 mm

Please order two LGVG 110 articulated connectors separately.



Articulated bend element

Type	Dimension B mm	Rail thickness mm	Weight		Item No.
			Pack. pcs	kg/100 pcs.	
SLGBE 1120 FT	200	2	1	172.800	6225530
SLGBE 1130 FT	300	2	1	191.800	6225532
SLGBE 1140 FT	400	2	1	210.800	6225534
SLGBE 1150 FT	500	2	1	229.600	6225538
SLGBE 1160 FT	600	2	1	248.600	6225540

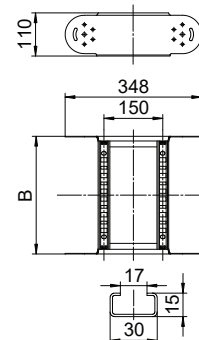
St Steel

FT Hot-dip galvanised

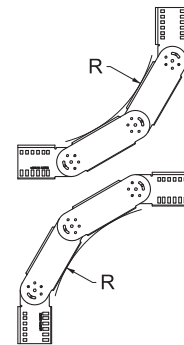
Adjustable bend element, heavy-duty, with welded rung for use in the cable ladder types with a side height of 110 mm.



Dimensions



Installation



Radius table

Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	approx. 600 mm
4	approx. 750 mm
5	approx. 900 mm

Please order two LGVG 110 articulated connectors separately.

90° bend, side height 110 mm

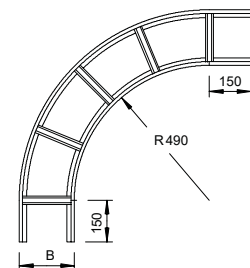
Type	Width mm	Weight		Item No.
		Pack. pcs	kg/100 pcs.	
LBI 90 112 VS FS	200	1	499.000	6217621
LBI 90 113 VS FS	300	1	559.900	6217648
LBI 90 114 VS FS	400	1	641.500	6217656
LBI 90 115 VS FS	500	1	726.000	6217664
LBI 90 116 VS FS	600	1	834.600	6217672
LBI 90 112 VS FT	200	1	532.000	6217729
LBI 90 113 VS FT	300	1	597.000	6217737
LBI 90 114 VS FT	400	1	684.000	6217745
LBI 90 115 VS FT	500	1	762.000	6217753
LBI 90 116 VS FT	600	1	886.000	6217761

St Steel

FS Strip-galvanised FT Hot-dip galvanised

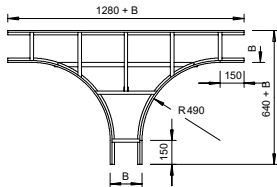
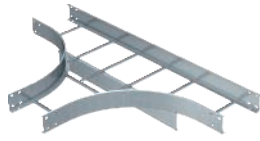
Connectors should be ordered separately and in the appropriate quantity.

90° bend, horizontal, for all cable ladder types of 110 mm side height.



Side height 110 mm

Tee, side height 110 mm



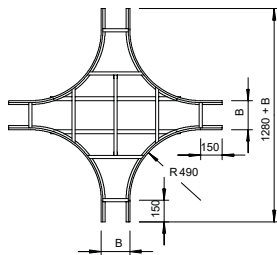
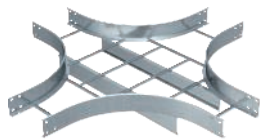
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LT 112 VS FS	200	1	893.000	6219225
LT 113 VS FS	300	1	1,068.000	6219233
LT 114 VS FS	400	1	1,159.000	6219241
LT 115 VS FS	500	1	1,188.000	6219268
LT 116 VS FS	600	1	1,409.000	6219276
LT 112 VS FT	200	1	940.000	6219322
LT 113 VS FT	300	1	1,132.000	6219330
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

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, side height 110 mm



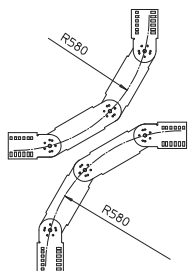
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LK 112 VS FS	200	1	1,221.000	6219527
LK 113 VS FS	300	1	1,451.000	6219535
LK 114 VS FS	400	1	1,465.000	6219543
LK 115 VS FS	500	1	1,667.000	6219551
LK 116 VS FS	600	1	1,853.000	6219578
LK 112 VS FT	200	1	1,286.000	6219624
LK 113 VS FT	300	1	1,537.000	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

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.

90° adjustable vertical bend, side height 110 mm



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

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.

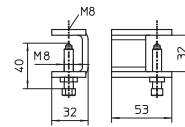


Beam clamp for cable ladders

Type	Side height mm	Pack. pcs	Weight		Item No.
			kg/100 pcs	pcs.	
KLL 32 FT	32	10	17.500		6221061
KLL 32 A2	32	10	17.100		6221063

St Steel **V2A** Stainless steel, A2
FT Hot-dip galvanised

Beam clamp for fastening cable ladders to steel girders.

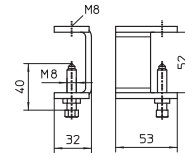


Beam clamp for cable ladders

Type	Side height mm	Pack. pcs	Weight		Item No.
			kg/100 pcs	pcs.	
KLL 52 FT	52	10	21.400		6221071
KLL 52 A2	52	10	21.000		6221073

St Steel **V2A** Stainless steel, A2
FT Hot-dip galvanised

Beam clamp for fastening cable ladders to steel girders.



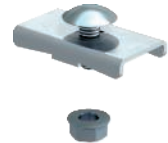
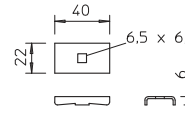
Clamping piece

Type	Pack. pcs	Weight		Item No.
		kg/100 pcs	pcs.	
LKS 40 FS	10	3.400		6221076
LKS 40 FT	10	3.400		6221084
LKS 40 A2	10	2.500		6017134

St Steel **V2A** Stainless steel, A2
FS Strip-galvanised **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.



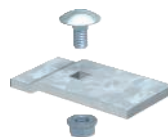
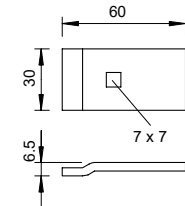
Hold-down clamp

Type	Pack. pcs	Weight		Item No.
		kg/100 pcs	pcs.	
LKS 60 4 FT	10	6.500		6221122
LKS 60 4 A2	10	8.000		6221130
LKS 60 4 A4	10	6.363		6221157

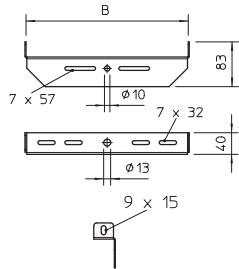
St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4
FT Hot-dip galvanised

Fastening on brackets, type MWA 12, AW 15, AW 30 and AW 55, using the enclosed truss-head bolt FRS M6x20.

Hold-down clamp for fastening cable ladders.



Central suspension, universal



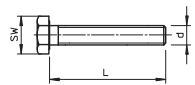
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MAHU 200 FS	200	20	27.500	6358853
MAHU 300 FS	300	20	39.300	6358856
MAHU 400 FS	400	20	68.800	6358860
MAHU 500 FS	500	20	85.800	6358864
MAHU 600 FS	600	15	103.300	6358868
MAHU 200 FT	200	20	28.700	6358884
MAHU 300 FT	300	20	43.300	6358888
MAHU 400 FT	400	20	71.300	6358892
MAHU 500 FT	500	20	89.100	6358896
MAHU 600 FT	600	15	107.000	6358900

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.

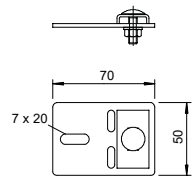
Hexagonal bolt



Type	Resistance class	Dimension d mm	Dimension 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

Support



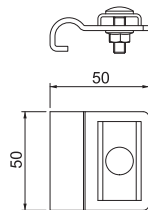
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LAL 70 FS	20	10.200	6221009
LAL 70 A2	20	10.200	6221017

St Steel V2A Stainless steel, A2

FS Strip-galvanised

Support for fastening rising or falling cable ladders.

Support angle



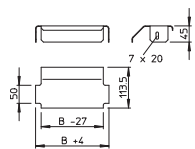
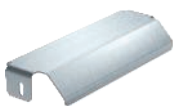
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LAW FT	10	9.200	6221513

St Steel

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

FT Hot-dip galvanised

Support plate to increase the cable volume and for cable protection.



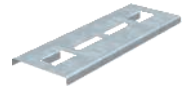
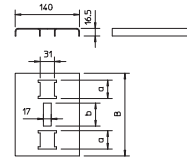
Rung support plate for function maintenance

Type	Dimension B mm	Dimension a mm	Dimension b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SAB20 FS	180	40	50	25	31.000	6222943
SAB30 FS	280	60	80	25	50.000	6222951
SAB40 FS	380	60	75	25	65.000	6222978

St Steel

FS Strip-galvanised

Rung support plates to increase the support area for the cables in the fittings for routing types with cable ladders for function maintenance to DIN 4102 Part 12. Use the support plates to ensure the largest possible support surface in the cable ladder fittings for cables that maintain electrical function in the event of fire. The rung support plates are just laid loosely on the rungs of the cable ladder fittings. The lugs pointing down prevent slippage.



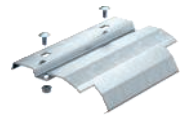
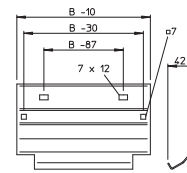
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LAB 20 FT	200	20	37.000	6220436
LAB 30 FT	300	25	58.000	6220444
LAB 40 FT	400	25	78.000	6220452
LAB 50 FT	500	15	99.000	6220460
LAB 60 FT	600	15	120.000	6220479
LAB 20 A2	200	20	26.000	7164017
LAB 30 A2	300	25	38.000	7164025
LAB 40 A2	400	25	50.000	7164033
LAB 50 A2	500	15	63.000	7164041
LAB 60 A2	600	15	75.000	7164068

St Steel **V2A** Stainless steel, A2

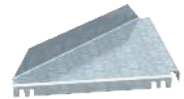
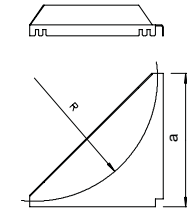
FT Hot-dip galvanised

Exit plate for installation on the rung for vertically exiting cables.

Drop-out plate



Corner plate



Type	radius mm	Dimension a mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LEB 25 FS	250	250	1	64.300	6221203
LEB 50 FS	500	500	1	209.300	6221246
LEB 25 DD	250	250	1	63.600	6221216
LEB 50 DD	500	500	1	205.500	6221259

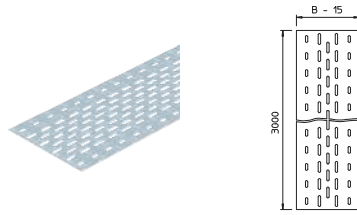
St Steel

FS Strip-galvanised **DD** Strip galvanised zinc/aluminium, double dip

Corner plate to increase the radius and the cable supporting surface.



Insert plate



Type	Dimension B mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
ELB-L 20 FS	200	1.00	3000	3	91.440	6103235
ELB-L 30 FS	300	1.00	3000	3	140.340	6103251
ELB-L 40 FS	400	1.00	3000	3	189.240	6103286
ELB-L 50 FS	500	1.00	3000	3	238.140	6103316
ELB-L 60 FS	600	1.00	3000	3	285.070	6103332
ELB-L 20 DD	200	1.00	3000	3	91.440	6103352
ELB-L 30 DD	300	1.00	3000	3	140.340	6103356
ELB-L 40 DD	400	1.00	3000	3	189.240	6103360
ELB-L 50 DD	500	1.00	3000	3	333.340	6103364
ELB-L 60 DD	600	1.00	3000	3	285.070	6103368
ELB-L20 A2	200	1.00	3000	3	91.440	6103614
ELB-L30 A2	300	1.00	3000	3	140.340	6103618
ELB-L40 A2	400	1.00	3000	3	189.240	6103622
ELB-L50 A2	500	1.00	3000	3	238.140	6103626
ELB-L60 A2	600	1.00	3000	3	343.500	6103630

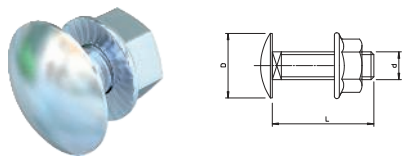
St Steel V2A Stainless steel, A2

FS Strip-galvanised DD Strip galvanised zinc/aluminium,double dip

Insert plate for use in cable ladders.

For fastening in wide span cable ladders, use truss-head bolts with combination nut of type FR SB 6x30.

Truss-head bolt with flange nut



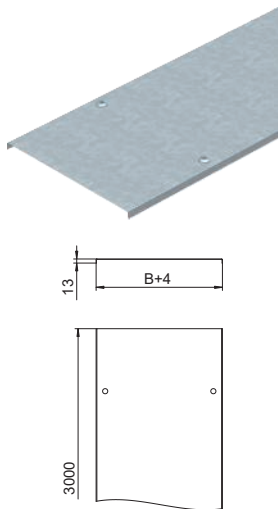
Type	Dimension mm	Dimension L mm	Dimension d mm	Dimension D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRSB 6x30 F	M 6 x 30	30	6	13.5	100	1.200	6406907

St Steel

F Hot-dip galvanised

Truss-head bolt with square neck including flange nut.

Cover with turn buckle



Type	Dimension B mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRL 200 FS	200	1.00	3000	3	181.340	6052207
DRL 300 FS	300	1.00	3000	3	259.334	6052304
DRL 400 FS	400	1.00	3000	3	338.670	6052401
DRL 500 FS	500	1.25	3000	3	623.000	6052509
DRL 600 FS	600	1.25	3000	3	741.000	6052606
DRL 200 DD	200	1.00	3000	3	185.000	6052709
DRL 300 DD	300	1.00	3000	3	263.340	6052712
DRL 400 DD	400	1.00	3000	3	342.070	6052715
DRL 500 DD	500	1.25	3000	3	626.670	6052718
DRL 600 DD	600	1.25	3000	3	744.570	6052724
DRL 200 A2	200	1.00	3000	3	183.500	6052894
DRL 300 A2	300	1.00	3000	3	262.250	6052908
DRL 400 A2	400	1.00	3000	3	340.400	6052932
DRL 500 A2	500	1.25	3000	3	625.340	6052959
DRL 200 A4	200	1.00	3000	3	183.570	6052981
DRL 300 A4	300	1.00	3000	3	262.240	6052983
DRL 400 A4	400	1.00	3000	3	341.240	6052984
DRL 500 A4	500	1.25	3000	3	624.900	6052985
DRL 600 A4	600	1.25	3000	3	743.240	6052986

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FS Strip-galvanised DD Strip galvanised zinc/aluminium,double dip

Transverse bead from 500 mm width.

Cover for cable trays and cable ladders with turn buckles.

When using covers outdoors, additional measures against the influence of wind must be taken.



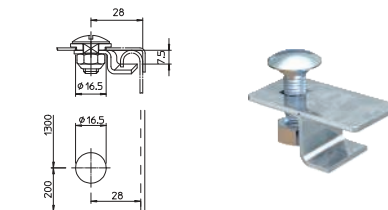
Turn buckle

Type	Pack. pcs	Weight		Item No.
		kg/100 pcs	pcs.	
DRLM 316 DD	10	2.800		6222366
DRLM 316 A2	10	2.800		6222358

St Steel **V2A** Stainless steel, A2
DD Strip galvanised zinc/aluminium, double dip

Use for cover widths of 50–600 mm.

Turn buckle for additional installation or installation at a later date.

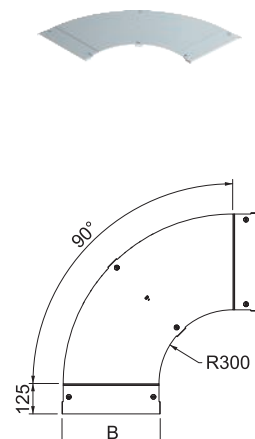


Cover for 90° bend

Type	Dimension		Plate thickness mm	Pack. pcs	Weight		Item No.
	B mm	mm			kg/100 pcs	pcs.	
LBD 90 200 R3 FS	200		1.00	1	145.000		6225990
LBD 90 300 R3 FS	300		1.00	1	232.000		6225992
LBD 90 400 R3 FS	400		1.00	1	331.000		6225994
LBD 90 500 R3 FS	500		1.25	1	550.000		6225996
LBD 90 600 R3 FS	600		1.25	1	705.000		6225998
LBD 90 200 R3 FT	200		1.00	1	158.000		6226010
LBD 90 300 R3 FT	300		1.00	1	251.000		6226012
LBD 90 400 R3 FT	400		1.00	1	359.000		6226014
LBD 90 450 R3 FT	450		1.25	1	513.000		6226016
LBD 90 500 R3 FT	500		1.25	1	589.000		6226018
LBD 90 600 R3 FT	600		1.25	1	755.000		6226020
LBD 90 750 R3 FT	750		1.25	1	857.000		6226022
LBD 90 800 R3 FT	800		1.25	1	939.000		6226024
LBD 90 900 R3 FT	900		1.25	1	1,388.000		6226026
LBD 90 1000 R3 FT	1000		1.25	1	1,624.000		6226028
LBD 90 1200 R3 FT	1200		1.25	1	2,143.000		6226032
LBD 90 200 R3 A2	200		1.00	1	158.000		6226050
LBD 90 300 R3 A2	300		1.00	1	246.000		6226052
LBD 90 400 R3 A2	400		1.00	1	346.000		6226054
LBD 90 500 R3 A2	500		1.25	1	568.000		6226056
LBD 90 600 R3 A2	600		1.25	1	725.000		6226058
LBD 90 200 R3 A4	200		1.00	1	159.000		6226070
LBD 90 300 R3 A4	300		1.00	1	248.000		6226072
LBD 90 400 R3 A4	400		1.00	1	350.000		6226074
LBD 90 500 R3 A4	500		1.25	1	575.000		6226076
LBD 90 600 R3 A4	600		1.25	1	734.000		6226078

St Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4
FS Strip-galvanised **FT** Hot-dip galvanised

Cover with turn buckles for covering 90° cable ladder bends with welded rungs.

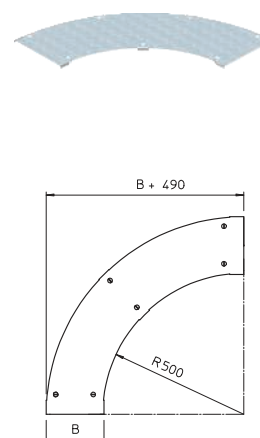


Cover for 90° bend

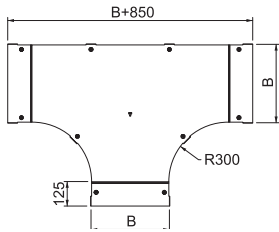
Type	Width mm	Pack. pcs	Weight		Item No.
			kg/100 pcs	pcs.	
BID 90 200 FT	200	1	180.000		6239153
BID 90 300 FT	300	1	400.000		6239161
BID 90 400 FT	400	1	570.000		6239188
BID 90 500 FT	500	1	760.000		6239196
BID 90 600 FT	600	1	980.000		6239218

St Steel
FT Hot-dip galvanised

Cover with turn buckles for covering 90° cable ladder bends.



Cover for tee



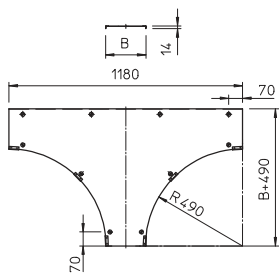
Type	Dimension B mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs	Item No.
LTD 200 R3 FS	200	1.00	1	274.000	6226100
LTD 300 R3 FS	300	1.00	1	413.000	6226102
LTD 400 R3 FS	400	1.00	1	567.000	6226104
LTD 500 R3 FS	500	1.25	1	737.000	6226106
LTD 600 R3 FS	600	1.25	1	922.000	6226108
LTD 200 R3 FT	200	1.00	1	298.000	6226120
LTD 300 R3 FT	300	1.00	1	450.000	6226122
LTD 400 R3 FT	400	1.00	1	617.000	6226124
LTD 450 R3 FT	450	1.25	1	696.000	6226126
LTD 500 R3 FT	500	1.25	1	775.000	6226128
LTD 600 R3 FT	600	1.25	1	989.000	6226130
LTD 750 R3 FT	750	1.25	1	1,687.000	6226132
LTD 800 R3 FT	800	1.25	1	1,836.000	6226134
LTD 900 R3 FT	900	1.25	1	2,151.000	6226136
LTD 1000 R3 FT	1000	1.25	1	2,488.000	6226138
LTD 1200 R3 FT	1200	1.25	1	3,222.000	6226142
LTD 200 R3 A2	200	1.00	1	287.000	6226160
LTD 300 R3 A2	300	1.00	1	429.000	6226162
LTD 400 R3 A2	400	1.00	1	585.000	6226164
LTD 500 R3 A2	500	1.25	1	757.000	6226166
LTD 600 R3 A2	600	1.25	1	943.000	6226168
LTD 200 R3 A4	200	1.00	1	291.000	6226180
LTD 300 R3 A4	300	1.00	1	434.000	6226182
LTD 400 R3 A4	400	1.00	1	592.000	6226184
LTD 500 R3 A4	500	1.25	1	766.000	6226186
LTD 600 R3 A4	600	1.25	1	955.000	6226188

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FS Strip-galvanised FT Hot-dip galvanised

Cover with turn buckles for covering T pieces with welded rungs.

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	701.600	6239781
T D 400 FT	400	1	940.300	6239803
T D 500 FT	500	1	1,191.000	6239811
T D 600 FT	600	1	1,513.400	6239838

St Steel

FT Hot-dip galvanised

Cover with turn buckles for covering tees.



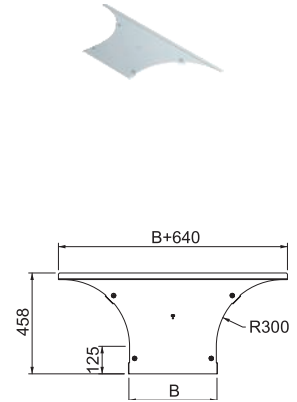
Cover for add-on tee

Type	Dimension B mm	Plate thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
LAAD 200 R3 FS	200	1.00	1	124.000	6226310
LAAD 300 R3 FS	300	1.00	1	159.000	6226312
LAAD 400 R3 FS	400	1.00	1	195.000	6226314
LAAD 500 R3 FS	500	1.25	1	287.000	6226316
LAAD 600 R3 FS	600	1.25	1	331.000	6226318
LAAD 200 R3 FT	200	1.00	1	134.000	6226330
LAAD 300 R3 FT	300	1.00	1	172.000	6226332
LAAD 400 R3 FT	400	1.00	1	211.000	6226334
LAAD 450 R3 FT	450	1.25	1	283.000	6226336
LAAD 500 R3 FT	500	1.25	1	312.000	6226338
LAAD 600 R3 FT	600	1.25	1	355.000	6226340
LAAD 750 R3 FT	750	1.25	1	445.000	6226342
LAAD 800 R3 FT	800	1.25	1	469.000	6226344
LAAD 900 R3 FT	900	1.25	1	517.000	6226346
LAAD 1000 R3 FT	1000	1.25	1	565.000	6226348
LAAD 1200 R3 FT	1200	1.25	1	661.000	6226352

St Steel

FS Strip-galvanised FT Hot-dip galvanised

Cover with turn buckles for covering add-on tee with welded rungs.



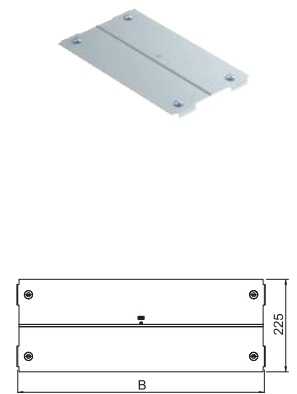
Cover for articulated bend element

Type	Dimension B mm	Plate thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
LGBED 200 FS	200	1.00	1	42.000	6226210
LGBED 300 FS	300	1.00	1	60.000	6226212
LGBED 400 FS	400	1.00	1	78.000	6226214
LGBED 500 FS	500	1.25	1	117.000	6226216
LGBED 600 FS	600	1.25	1	139.000	6226218
LGBED 200 FT	200	1.00	1	45.000	6226230
LGBED 300 FT	300	1.00	1	65.000	6226232
LGBED 400 FT	400	1.00	1	85.000	6226234
LGBED 450 FT	450	1.25	1	113.000	6226236
LGBED 500 FT	500	1.25	1	125.000	6226238
LGBED 600 FT	600	1.25	1	149.000	6226240
LGBED 750 FT	750	1.25	1	184.000	6226242
LGBED 800 FT	800	1.25	1	196.000	6226244
LGBED 900 FT	900	1.25	1	219.000	6226246
LGBED 1000 FT	1000	1.25	1	243.000	6226248
LGBED 1200 FT	1200	1.25	1	290.000	6226252

St Steel

FS Strip-galvanised FT Hot-dip galvanised

Cover with sash locks for covering adjustable bends with welded rungs.



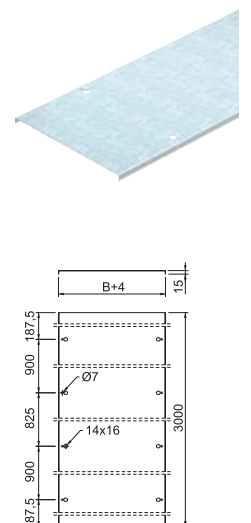
Cover for stand-off mounting

Type	Width mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRL FAM 230 FT	230	1.50	3000	3	319.240	6051222
DRL FAM 330 FT	330	1.50	3000	3	444.800	6051224
DRL FAM 430 FT	430	1.50	3000	3	570.370	6051226
DRL FAM 530 FT	530	1.50	3000	3	695.900	6051228
DRL FAM 630 FT	630	1.50	3000	3	821.470	6051230
DRL FAM 230 A2	230	1.50	3000	3	299.370	6051192
DRL FAM 330 A2	330	1.50	3000	3	417.140	6051194
DRL FAM 430 A2	430	1.50	3000	3	534.870	6051196
DRL FAM 530 A2	530	1.50	3000	3	652.640	6051198
DRL FAM 630 A2	630	1.50	3000	3	770.370	6051200
DRL FAM 230 A4	230	1.50	3000	3	299.370	6051210
DRL FAM 330 A4	330	1.50	3000	3	417.140	6051212
DRL FAM 430 A4	430	1.50	3000	3	534.870	6051214
DRL FAM 530 A4	530	1.50	3000	3	652.640	6051216
DRL FAM 630 A4	630	1.50	3000	3	770.370	6051218

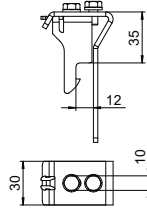
St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FT Hot-dip galvanised

When using covers outdoors, additional measures against the influence of wind must be taken.



Spacer

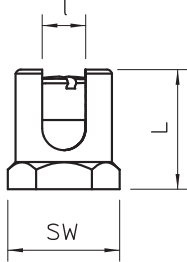


Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
AH 35 A2	35	8	14.100	6065475

V2A Stainless steel, A2

Spacers for stand-off cover mounting on cable trays and cable ladders. Space height 35 mm, stainless steel 1.4301.

Earthing terminal with fastening thread



Type	Dimension L mm	Dimension I mm	Cross-section mm ²	Thread	Pack. pcs	Weight kg/100 pcs	Item No.
EKL 25 M8	26	10	25	M8	50	3.970	6404001

CuZn Brass

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





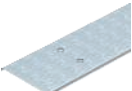

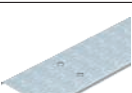






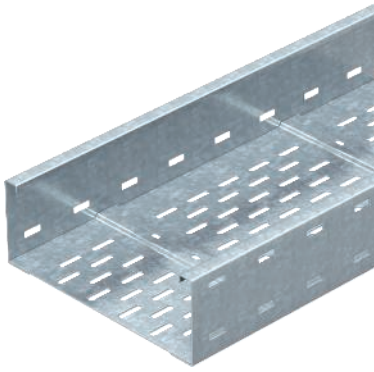
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Wide span systems

	Wide span cable tray, side height 110 mm	348
	Wide span cable tray, side height 160 mm	353
	Wide span cable ladder, side height 110 mm	359
	Wide span cable ladder, side height 160 mm	365
	Accessories for cable tray/cable ladder, side rail height 110, 160 mm	370
	Wide span cable ladder, side height 200 mm	374
	Accessories for wide span cable ladder, 200 mm	377



Wide span cable tray WKSG 110



Type	Dimen- sion B mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
WKSG 120 FS	200	2.00	6	712.610	6098111
WKSG 130 FS	300	2.00	6	921.900	6098115
WKSG 140 FS	400	2.00	6	921.900	6098119
WKSG 150 FS	500	2.00	6	1,023.340	6098123
WKSG 160 FS	600	2.00	6	1,131.170	6098127
WKSG 120 FT	200	2.00	6	751.570	6098141
WKSG 130 FT	300	2.00	6	863.150	6098145
WKSG 140 FT	400	2.00	6	974.740	6098149
WKSG 150 FT	500	2.00	6	1,086.320	6098153
WKSG 160 FT	600	2.00	6	1,197.890	6098157

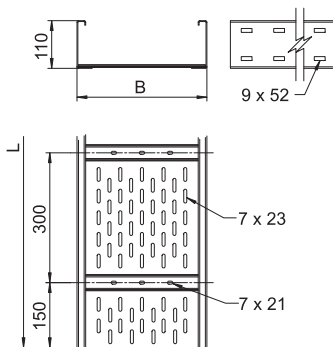
SI Steel

FS Strip-galvanised FT Hot-dip galvanised

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

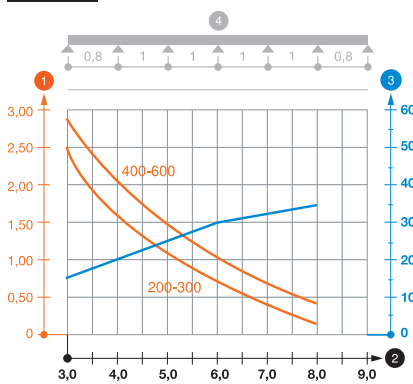
Wide span cable tray system, perforated, with a side height of 110 mm.

Dimensions



Type	Dimen- sion L mm	Dimen- sion B mm	Useful cross- section cm ²
WKSG 120 FS	6000	200	202
WKSG 130 FS	6000	300	305
WKSG 140 FS	6000	400	408
WKSG 150 FS	6000	500	511
WKSG 160 FS	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 FS	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 130 FS	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 140 FS	2.9	2	1.5	1	0.7	0.4
WKSG 150 FS	2.9	2	1.5	1	0.7	0.4
WKSG 160 FS	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

Wide span cable tray WKSG 110

Type	Dimension B mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
WKSG 120 A2	200	2.00	6	717.000	6098161
WKSG 130 A2	300	2.00	6	825.000	6098165
WKSG 140 A2	400	2.00	6	933.200	6098169
WKSG 150 A2	500	2.00	6	1,041.200	6098173
WKSG 160 A2	600	2.00	6	1,149.300	6098177

V2A Stainless steel, A2

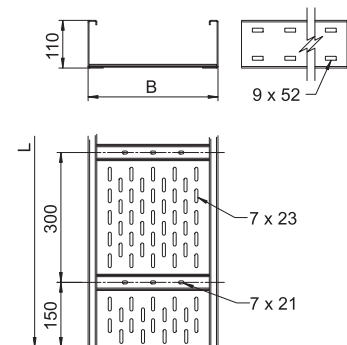
Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

Wide span cable tray system, perforated, with a side height of 110 mm.

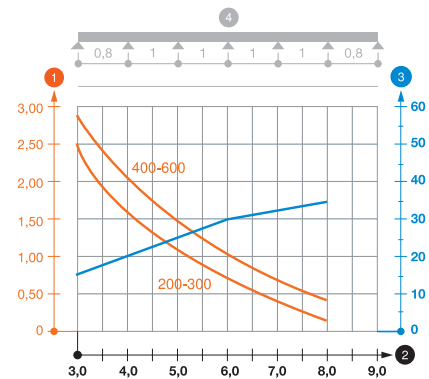


Type	Dimension L mm	Dimension B mm	Useful cross-section cm ²
WKSG 120 A2	6000	200	202
WKSG 130 A2	6000	300	305
WKSG 140 A2	6000	400	408
WKSG 150 A2	6000	500	511
WKSG 160 A2	6000	600	614

Dimensions



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 A2	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 130 A2	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 140 A2	2.9	2	1.5	1	0.7	0.4
WKSG 150 A2	2.9	2	1.5	1	0.7	0.4
WKSG 160 A2	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

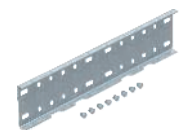
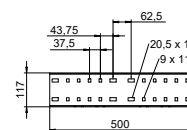
Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
WRVL 110 FS	110	2	152.400	6091164
WRVL 110 FT	110	2	157.800	6091180
WRVL 110 A2	110	2	154.200	6091229
WRVL 110 A4	110	2	154.400	6091234

Sl Steel V2A Stainless steel, A2 V4A Stainless steel, A4

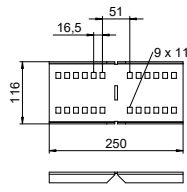
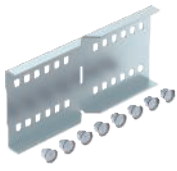
FS Strip-galvanised FT Hot-dip galvanised

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 A2	110	2	69.000	6091393
WRWVK 110 A4	110	2	69.000	6091397

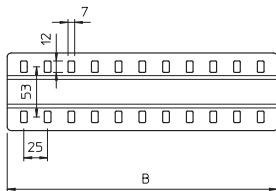
St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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	Dimension B mm	Pack. pcs	Weight kg/100 pcs	Item No.
SSLB 200 FS	200	20	16.700	7070213
SSLB 300 FS	300	20	25.700	7070217
SSLB 400 FS	400	20	34.700	7070221
SSLB 500 FS	500	20	43.700	7070225
SSLB 600 FS	600	20	52.700	7070233
SSLB 200 DD	200	20	16.700	7070314
SSLB 300 DD	300	20	25.700	7070318
SSLB 400 DD	400	20	34.700	7070322
SSLB 500 DD	500	20	43.700	7070326
SSLB 600 DD	600	20	52.700	7070334
SSLB 200 A2	200	20	16.700	7070361
SSLB 300 A2	300	20	25.700	7070365
SSLB 400 A2	400	20	34.700	7070369
SSLB 500 A2	500	20	43.700	7070373
SSLB 600 A2	600	20	52.700	7070381
SSLB 200 A4	200	20	16.700	7070392
SSLB 300 A4	300	20	25.700	7070394
SSLB 400 A4	400	20	34.700	7070396
SSLB 500 A4	500	20	43.700	7070398
SSLB 600 A4	600	20	52.700	7070400

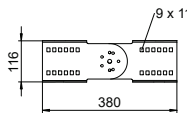
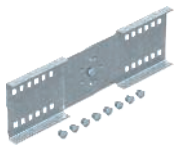
St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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
WRGV 110 A2	110	2	120.000	6091338
WRGV 110 A4	110	2	120.000	6091343

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FS Strip-galvanised FT Hot-dip galvanised

Including appropriate bolts, washers and nuts.

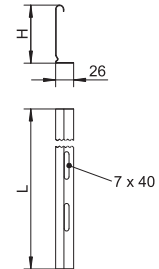
Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.

Separating retainer

Type	Dimension H mm	Plate thickness mm	Dimension 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
TSG 85 A2	85	0.75	3000	3	69.670	6062173

St Steel V2A Stainless steel, A2
 FS Strip-galvanised DD Strip galvanised zinc/aluminium, double dip

Separating retainer for separation of cables of different voltages or functions.

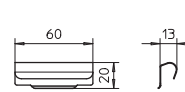


Separating retainer connector

Type	Pack. pcs	Weight kg/100 pcs	Item No.
TSGV A2	10	0.923	6067970

V2A Stainless steel, A2

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

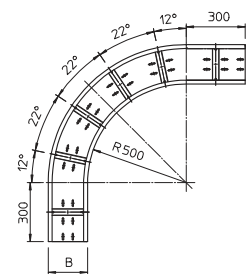
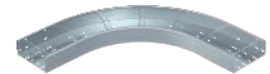


90° bend

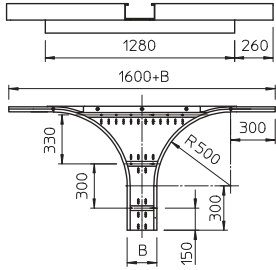
Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs	Item No.
WRB 90 120 FS	200	1	1,148.000	6098304
WRB 90 130 FS	300	1	1,428.000	6098308
WRB 90 140 FS	400	1	1,653.000	6098312
WRB 90 150 FS	500	1	1,935.000	6098316
WRB 90 160 FS	600	1	2,234.000	6098320
WRB 90 120 FT	200	1	1,207.000	6098344
WRB 90 130 FT	300	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
 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	Dimension B 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

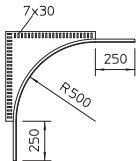
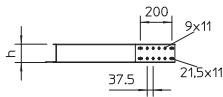
St Steel

FS Strip-galvanised FT Hot-dip galvanised

For further stabilisation, additional supports should be planned for the area of the fittings.

Mounting/branch piece for horizontal use. For all wide span cable trays of 110 mm side height.

Add-on corner



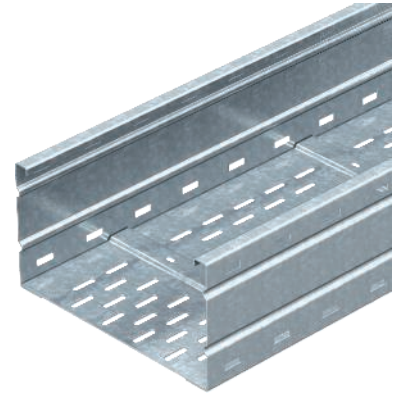
Type	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WEAS 110 FS	110	1	504.000	6098475
WEAS 110 FT	110	1	534.000	6098479
WEAS 110 A2	110	1	504.000	6098483

St Steel V2A Stainless steel, A2

FS Strip-galvanised FT Hot-dip galvanised

Corner extension piece for wide span cable trays and ladders with a side height of 110 mm.

Wide span cable tray WKSG 160



Type	Dimension B mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
WKSG 162 FS	200	2.00	6	895.067	6098501
WKSG 163 FS	300	2.00	6	1,003.170	6098505
WKSG 164 FS	400	2.00	6	1,108.340	6098509
WKSG 165 FS	500	2.00	6	1,216.420	6098513
WKSG 166 FS	600	2.00	6	1,216.420	6098517
WKSG 162 FT	200	2.00	6	943.090	6098550
WKSG 163 FT	300	2.00	6	1,058.370	6098554
WKSG 164 FT	400	2.00	6	1,170.520	6098558
WKSG 165 FT	500	2.00	6	1,285.770	6098562
WKSG 166 FT	600	2.00	6	1,401.040	6098566

St Steel

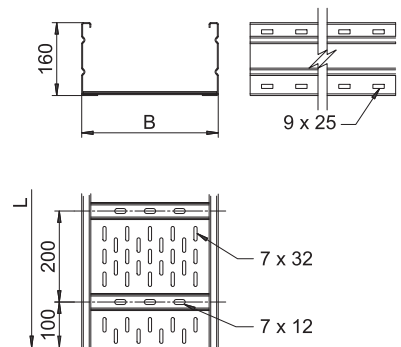
FS Strip-galvanised FT Hot-dip galvanised

Straight connectors of type WRV 160 should be ordered separately and in the appropriate quantity.

Wide span cable tray system, perforated, with a side height of 160 mm.

Type	Dimension L mm	Dimension B mm	Useful cross-section cm ²
WKSG 162 FS	6000	200	302
WKSG 163 FS	6000	300	455
WKSG 164 FS	6000	400	608
WKSG 165 FS	6000	500	761
WKSG 166 FS	6000	600	914

Dimensions

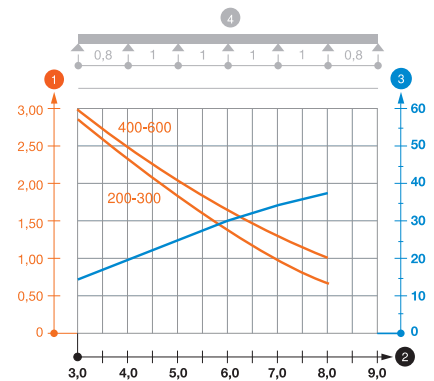


Load

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 FS	2.9	2.3	1.8	1.4	1	0.7
WKSG 163 FS	2.9	2.3	1.8	1.4	1	0.7
WKSG 164 FS	3	2.5	2	1.6	1.3	1
WKSG 165 FS	3	2.5	2	1.6	1.3	1
WKSG 166 FS	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



Wide span cable tray WKSG 160



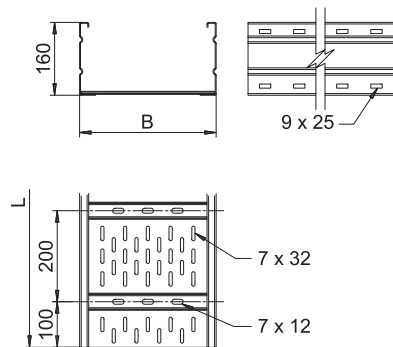
Type	Dimension B mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
WKSG 162 A2	200	2.00	6	895.070	6098571
WKSG 163 A2	300	2.00	6	1,003.170	6098573
WKSG 164 A2	400	2.00	6	1,108.340	6098575
WKSG 165 A2	500	2.00	6	1,216.420	6098577
WKSG 166 A2	600	2.00	6	1,324.520	6098579

V2A Stainless steel, A2

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

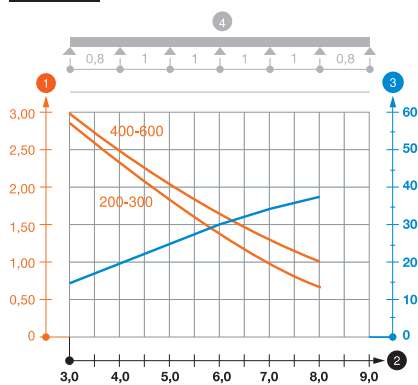
Wide span cable tray system, perforated, with a side height of 110 mm.

Dimensions



Type	Dimension L mm	Dimension B mm	Useful cross-section cm ²
WKSG 162 A2	6000	200	302
WKSG 163 A2	6000	300	455
WKSG 164 A2	6000	400	608
WKSG 165 A2	6000	500	761
WKSG 166 A2	6000	600	914

Load

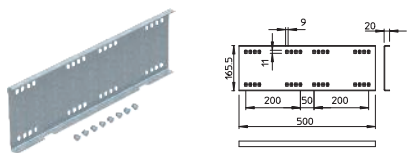


Type	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKSG 162 A2	2.9	2.3	1.8	1.4	1	0.7
WKSG 163 A2	2.9	2.3	1.8	1.4	1	0.7
WKSG 164 A2	3	2.5	2	1.6	1.3	1
WKSG 165 A2	3	2.5	2	1.6	1.3	1
WKSG 166 A2	3	2.5	2	1.6	1.3	1

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 FS	160	2	218.000	6227708
WRVL 160 FT	160	2	218.000	6227716
WRVL 160 A2	160	2	218.000	6227724
WRVL 160 A4	160	2	186.000	6227730

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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 types WKSG and WKLG with a side height of 160 mm.

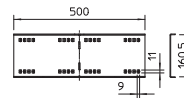
Straight and angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWVK 160 FS	160	2	186.000	6227832
WRWVK 160 A2	160	2	186.000	6227836

St Steel **V2A** Stainless steel, A2
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.



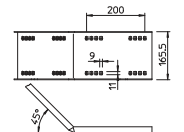
45° angle connector, horizontal, inner strut

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
WRWV 160 I A2	160	1	239.000	6227914

St Steel **V2A** Stainless steel, A2
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.



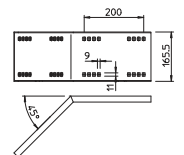
45° angle connector, horizontal, outer strut

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
WRWV 160 A A2	160	1	234.000	6227868

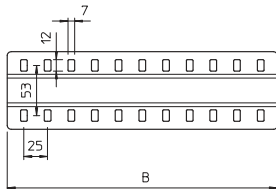
St Steel **V2A** Stainless steel, A2
FS Strip-galvanised **FT** Hot-dip galvanised

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	Dimension B mm	Pack. pcs	Weight		Item No.
			kg/100	pcs.	
SSLB 200 FS	200	20	16.700		7070213
SSLB 300 FS	300	20	25.700		7070217
SSLB 400 FS	400	20	34.700		7070221
SSLB 500 FS	500	20	43.700		7070225
SSLB 600 FS	600	20	52.700		7070233
SSLB 200 DD	200	20	16.700		7070314
SSLB 300 DD	300	20	25.700		7070318
SSLB 400 DD	400	20	34.700		7070322
SSLB 500 DD	500	20	43.700		7070326
SSLB 600 DD	600	20	52.700		7070334
SSLB 200 A2	200	20	16.700		7070361
SSLB 300 A2	300	20	25.700		7070365
SSLB 400 A2	400	20	34.700		7070369
SSLB 500 A2	500	20	43.700		7070373
SSLB 600 A2	600	20	52.700		7070381
SSLB 200 A4	200	20	16.700		7070392
SSLB 300 A4	300	20	25.700		7070394
SSLB 400 A4	400	20	34.700		7070396
SSLB 500 A4	500	20	43.700		7070398
SSLB 600 A4	600	20	52.700		7070400

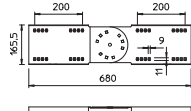
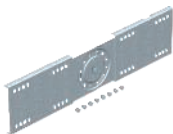
St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

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		Item No.
			kg/100	pcs.	
WRGV 160 FS	160	2	310.000		6227953
WRGV 160 FT	160	2	320.000		6227961
WRGV 160 A2	160	2	310.000		6227965

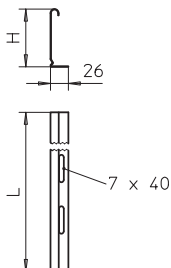
St Steel V2A Stainless steel, A2

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.

Separating retainer



Type	Dimension H mm	Plate thickness mm	Dimension L mm	Pack. m	Weight		Item No.
					kg/100 m	pcs	
TSG 110 FS	110	0.75	3000	3	85.000		6062122
TSG 110 DD	110	0.75	3000	3	85.000		6062335
TSG 110 A2	110	0.75	3000	3	84.340		6062255

St Steel V2A Stainless steel, A2

FS Strip-galvanised DD Strip galvanised zinc/aluminium, double dip

Barrier strip for separation of cables of different voltages or functions.

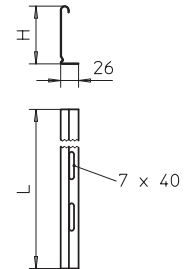
Separating retainer

Type	Dimension H mm	Plate thickness mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 135 FS	135	0.75	3000	3	100.000	6062132
TSG 135 DD	135	0.75	3000	3	100.000	6062338

St Steel

FS Strip-galvanised **DD** Strip galvanised zinc/aluminium, double dip

Barrier strip for separation of cables of different voltages or functions.

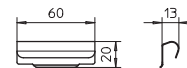


Separating retainer connector

Type	Pack. pcs	Weight kg/100 pcs	Item No.
TSGV A2	10	0.923	6067970

V2A Stainless steel, A2

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.



90° bend

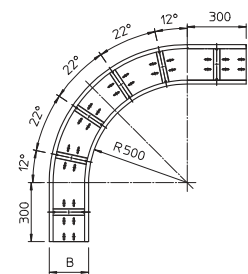
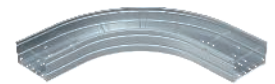
Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs	Item No.
WRB 90 162 FS	200	1	1,390.000	6098703
WRB 90 163 FS	300	1	1,664.000	6098707
WRB 90 164 FS	400	1	1,920.000	6098711
WRB 90 165 FS	500	1	2,214.000	6098715
WRB 90 166 FS	600	1	2,526.000	6098719
WRB 90 162 FT	200	1	1,460.000	6098730
WRB 90 163 FT	300	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

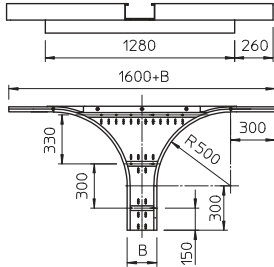
FS Strip-galvanised **FT** Hot-dip galvanised

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.



Add-on tee



Type	Dimension B 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

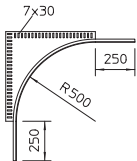
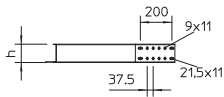
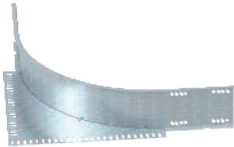
St Steel

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	Dimension h 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
WEAS 160 A2	160	1	702.000	6098868

St Steel V2A Stainless steel, A2

FS Strip-galvanised FT Hot-dip galvanised

Corner extension piece for wide span cable trays and ladders with a side height of 160 mm.

Wide span cable ladder WKLG 110

Type	Dimension B mm	Rail 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

FS Strip-galvanised FT Hot-dip galvanised

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

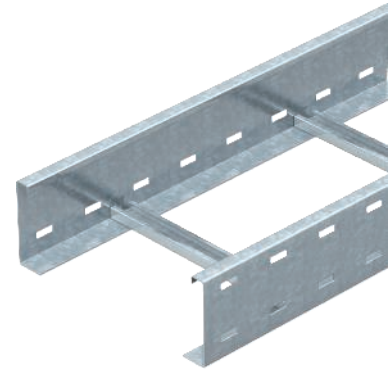
Wide span cable ladder with perforated side rails of side height of 110 mm.

Type	Dimension L mm	Dimension B mm	Useful cross-section cm ²
WKLG 1120 FS	6000	200	186
WKLG 1130 FS	6000	300	281
WKLG 1140 FS	6000	400	376
WKLG 1150 FS	6000	500	471
WKLG 1160 FS	6000	600	566

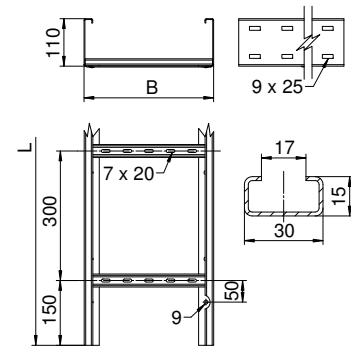
Type	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m
WKLG 1120 FS	1.6	1.1	0.8	0.4
WKLG 1130 FS	1.6	1.1	0.8	0.4
WKLG 1140 FS	2.1	1.5	1	0.7
WKLG 1150 FS	2.1	1.5	1	0.7
WKLG 1160 FS	2.1	1.5	1	0.7

Load diagram, wide span cable ladder, type WKLG 110

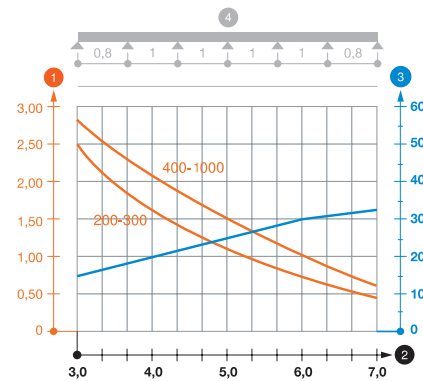
- 1 Permitted cable tray/ladder load in kN/m without man load
- 2 Support width in m
- 3 Rail bend in mm at permitted kN/m
- 4 Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



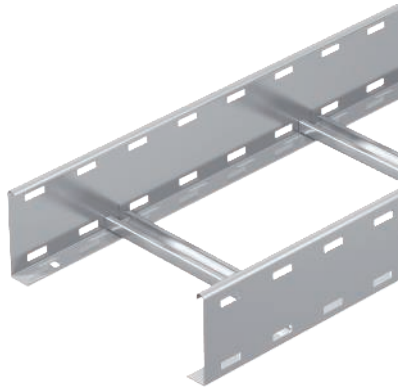
Dimensions



Load



Wide span cable ladder WKLG 110



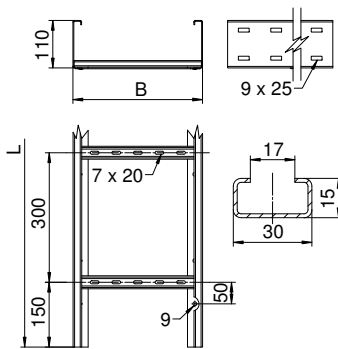
Type	Dimension B mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
WKLG 1120 A2	200	2	6	567.000	6311202
WKLG 1130 A2	300	2	6	593.000	6311206
WKLG 1140 A2	400	2	6	620.000	6311210
WKLG 1150 A2	500	2	6	630.000	6311214
WKLG 1160 A2	600	2	6	674.000	6311218
WKLG 1120 A4	200	2	6	567.000	6311225
WKLG 1130 A4	300	2	6	593.000	6311227
WKLG 1140 A4	400	2	6	620.000	6311229
WKLG 1150 A4	500	2	6	630.000	6311231
WKLG 1160 A4	600	2	6	674.000	6311233

V2A Stainless steel, A2 V4A Stainless steel, A4

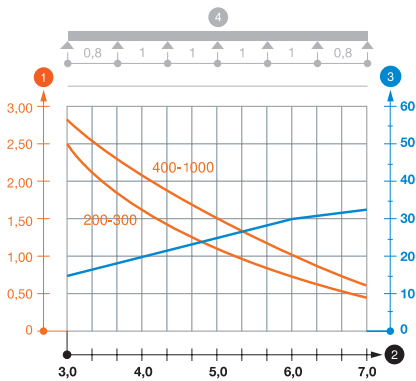
Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

Wide span cable ladder with perforated side rails of side height of 110 mm.

Dimensions



Load



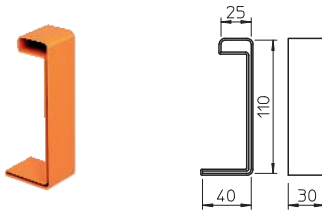
Type	Dimension L mm	Dimension B mm	Useful cross-section cm ²
WKLG 1120 A2	6000	200	186
WKLG 1130 A2	6000	300	281
WKLG 1140 A2	6000	400	376
WKLG 1150 A2	6000	500	471
WKLG 1160 A2	6000	600	566

Type	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m
WKLG 1120 A2	1.6	1.1	0.8	0.4
WKLG 1130 A2	1.6	1.1	0.8	0.4
WKLG 1140 A2	2.1	1.5	1	0.7
WKLG 1150 A2	2.1	1.5	1	0.7
WKLG 1160 A2	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

PVC Polyvinylchloride

Protective cap to cover the ends of wide span cable ladders.

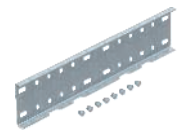
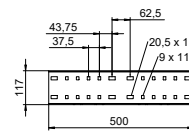
Straight connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRVL 110 FS	110	2	152.400	6091164
WRVL 110 FT	110	2	157.800	6091180
WRVL 110 A2	110	2	154.200	6091229
WRVL 110 A4	110	2	154.400	6091234

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4
 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.



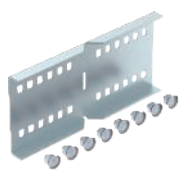
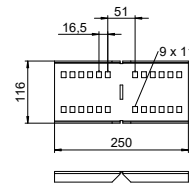
Straight and angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWVK 110 FS	110	2	71.000	6091377
WRWVK 110 A2	110	2	69.000	6091393
WRWVK 110 A4	110	2	69.000	6091397

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4
 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.



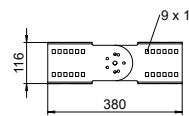
Adjustable connector

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
WRGV 110 A2	110	2	120.000	6091338
WRGV 110 A4	110	2	120.000	6091343

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4
 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.



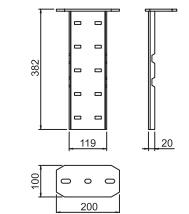
Base plate for wide span systems

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WFP 110 FT	110	1	266.200	6232500

St Steel
 FT Hot-dip galvanised

Including appropriate bolts, washers and nuts.

Base plate for accepting wide span systems, for example, for vertical routing of wide span cable trays.



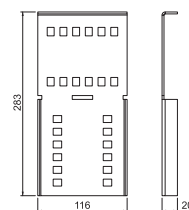
Straight and angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWVV 110 FS	110	2	60.000	6091379

St Steel
 FS Strip-galvanised

Including appropriate bolts, washers and nuts.

Angle connector for connecting vertical and horizontal wide span systems.



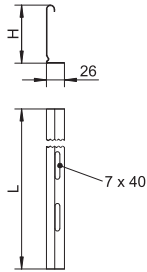
Separating retainer



Type	Dimen- sion H mm	Plate thickness mm	Dimen- sion 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
TSG 85 A2	85	0.75	3000	3	69.670	6062173

St Steel **V2A** Stainless steel, A2
FS Strip-galvanised **DD** Strip galvanised zinc/aluminium, double dip

Separating retainer for separation of cables of different voltages or functions.



Separating retainer connector

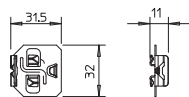


Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV A2	10	0.923	6067970

V2A Stainless steel, A2

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Hold-down clamp for separating retainer fastening VA

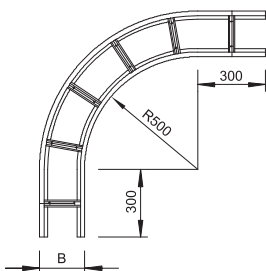
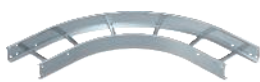


Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KL A2	30	0.512	6062284

V2A Stainless steel, A2

Hold-down clamp for screwless fastening of separating retainer in cable ladders.

90° bend



Type	Dimen- sion B mm	Rail thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WLB 90 112 FS	200	2	1	881.800	6312330
WLB 90 113 FS	300	2	1	971.000	6312349
WLB 90 114 FS	400	2	1	1,052.100	6312357
WLB 90 115 FS	500	2	1	1,176.000	6312365
WLB 90 116 FS	600	2	1	1,330.000	6312373
WLB 90 112 FT	200	2	1	926.800	6312438
WLB 90 113 FT	300	2	1	1,016.000	6312446
WLB 90 114 FT	400	2	1	1,107.300	6312454
WLB 90 115 FT	500	2	1	1,233.000	6312462
WLB 90 116 FT	600	2	1	1,370.000	6312470
WLB 90 112 A4	200	2	1	881.800	6312550
WLB 90 113 A4	300	2	1	1,030.000	6312552
WLB 90 114 A4	400	2	1	1,052.100	6312554
WLB 90 115 A4	500	2	1	1,230.000	6312556
WLB 90 116 A4	600	2	1	1,330.000	6312558

St Steel **V4A** Stainless steel, A4

FS Strip-galvanised **FT** Hot-dip galvanised

For further stabilisation, additional supports should be planned for the area of the fittings.

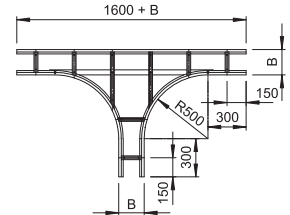
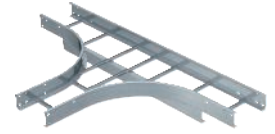
90° bend, horizontal, for all wide span cable ladders of 110 mm side height.

Tee

Type	Dimension B mm	Rail thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WLT 1120 FS	200	2	1	1,760.000	6312632
WLT 1130 FS	300	2	1	1,927.000	6312640
WLT 1140 FS	400	2	1	2,050.000	6312659
WLT 1150 FS	500	2	1	2,172.000	6312667
WLT 1160 FS	600	2	1	2,340.000	6312675
WLT 1120 FT	200	2	1	1,842.000	6312713
WLT 1130 FT	300	2	1	2,017.000	6312721
WLT 1140 FT	400	2	1	2,147.000	6312748
WLT 1150 FT	500	2	1	2,275.000	6312756
WLT 1160 FT	600	2	1	2,404.000	6312764
WLT 1120 A4	200	2	1	1,750.000	6312815
WLT 1130 A4	300	2	1	1,870.000	6312817
WLT 1140 A4	400	2	1	1,990.000	6312819
WLT 1150 A4	500	2	1	2,147.000	6312821
WLT 1160 A4	600	2	1	2,340.000	6312823

St Steel V4A Stainless steel, A4
 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.

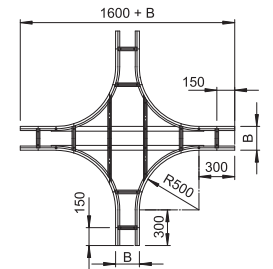
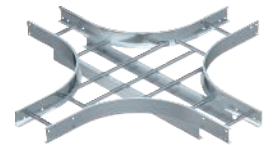


Cross-over

Type	Dimension B mm	Rail thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WLK 1120 FT	200	2	1	2,623.200	6312934
WLK 1130 FT	300	2	1	2,850.600	6312942
WLK 1140 FT	400	2	1	3,001.130	6312950
WLK 1150 FT	500	2	1	3,145.000	6312969
WLK 1160 FT	600	2	1	3,291.400	6312977

St Steel 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.



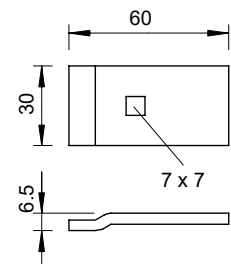
Hold-down clamp

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LKS 60 4 FT	10	6.500	6221122
LKS 60 4 A2	10	8.000	6221130
LKS 60 4 A4	10	6.363	6221157

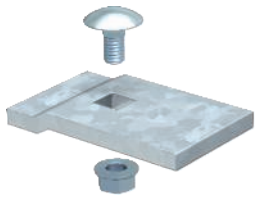
St Steel V2A Stainless steel, A2 V4A Stainless steel, A4
 FT Hot-dip galvanised

Fastening on brackets, type MWA 12, AW 15, AW 30 and AW 55, using the enclosed truss-head bolt FRS M6x20.

Hold-down clamp for fastening cable ladders.



Hold-down clamp



Type

LKS 60 5 FT

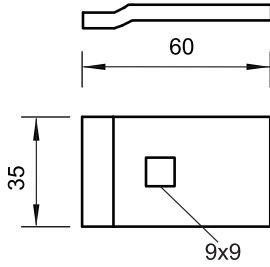
St Steel

FT Hot-dip galvanised

Fastening on bracket, type AW 80, and AWSS using the enclosed truss-head bolt FRS M8x20.

Hold-down clamp for fastening wide span cable ladders.

Pack.	Weight	
pcs	kg/100	Item No.
10	10.000	6232485



Wide span cable ladder WKLG 160

Type	Dimension B mm	Rail 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

FS Strip-galvanised FT Hot-dip galvanised

Straight connectors of type WRV 160 should be ordered separately and in the appropriate quantity.

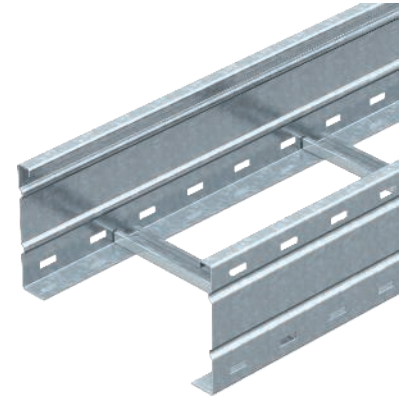
Wide span cable ladder with perforated side rail of side height of 160 mm.

Type	Dimension L mm	Dimension B mm	Useful cross-section cm ²
WKLG 1620 FS	6000	200	282
WKLG 1630 FS	6000	300	427
WKLG 1640 FS	6000	400	572
WKLG 1650 FS	6000	500	717
WKLG 1660 FS	6000	600	857

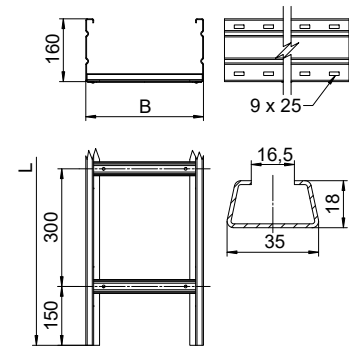
Type	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKLG 1620 FS	1.8	1.4	1	0.7
WKLG 1630 FS	1.8	1.4	1	0.7
WKLG 1640 FS	2	1.6	1.3	1
WKLG 1650 FS	2	1.6	1.3	1
WKLG 1660 FS	2	1.6	1.3	1

Load diagram, wide span cable ladder, type WKLG 160

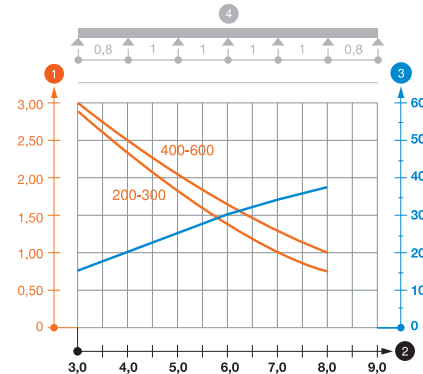
- 1 Permitted cable tray/ladder load in kN/m without man load
- 2 Support width in m
- 3 Rail bend in mm at permitted kN/m
- 4 Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



Dimensions



Load



Straight connector

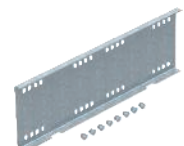
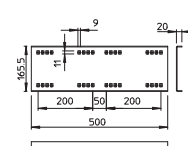
Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
WRVL 160 FS	160	2	218.000	6227708
WRVL 160 FT	160	2	218.000	6227716

St Steel

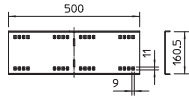
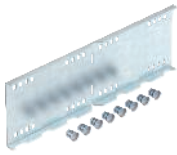
FS Strip-galvanised FT Hot-dip galvanised

Including appropriate bolts, washers and nuts.

Straight connector for the connection of wide span cable trays and ladders of types WKSG and WKLG with a side height of 160 mm.



Straight and angle connector



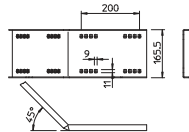
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWVK 160 FS	160	2	186.000	6227832
WRWVK 160 A2	160	2	186.000	6227836

St Steel **V2A** Stainless steel, A2
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, horizontal, inner strut



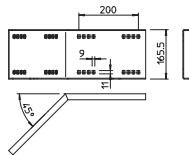
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWV 160 I FS	160	1	234.000	6227902
WRWV 160 I FT	160	1	234.000	6227910

St Steel
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, outer strut



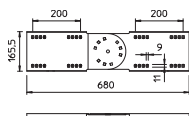
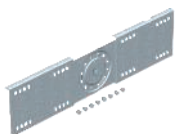
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWV 160 A FS	160	1	234.000	6227856
WRWV 160 A FT	160	1	234.000	6227864

St Steel
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



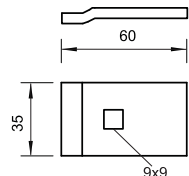
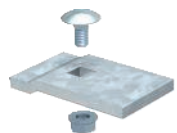
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRGV 160 FS	160	2	310.000	6227953
WRGV 160 FT	160	2	320.000	6227961

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	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LKS 60 5 FT		10	10.000	6232485

St Steel
FT Hot-dip galvanised

Fastening on bracket, type AW 80, and AWSS using the enclosed truss-head bolt FRS M8x20.
 Hold-down clamp for fastening wide span cable ladders.

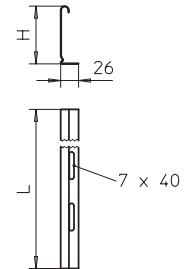
Separating retainer

Type	Dimen- sion H mm	Plate thickness mm	Dimen- sion L mm	Pack. Weight		Item No.
				m	kg/100 m	
TSG 110 FS	110	0.75	3000	3	85.000	6062122
TSG 110 DD	110	0.75	3000	3	85.000	6062335

St Steel

FS Strip-galvanised **DD** Strip galvanised zinc/aluminium,double dip

Barrier strip for separation of cables of different voltages or functions.



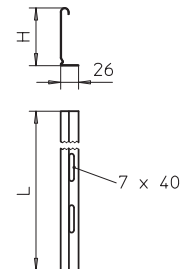
Separating retainer

Type	Dimen- sion H mm	Plate thickness mm	Dimen- sion L mm	Pack. Weight		Item No.
				m	kg/100 m	
TSG 135 FS	135	0.75	3000	3	100.000	6062132
TSG 135 DD	135	0.75	3000	3	100.000	6062338

St Steel

FS Strip-galvanised **DD** Strip galvanised zinc/aluminium,double dip

Barrier strip for separation of cables of different voltages or functions.

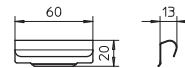


Separating retainer connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.

V2A Stainless steel, A2

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

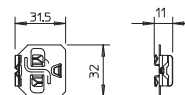


Hold-down clamp for separating retainer fastening VA

Type	Pack. pcs	Weight kg/100 pcs.	Item No.

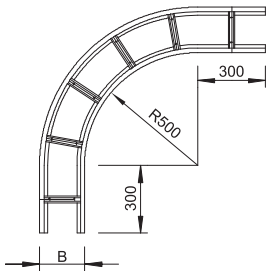
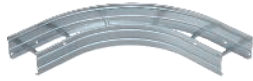
V2A Stainless steel, A2

Hold-down clamp for screwless fastening of separating retainer in cable ladders.



Wide span cable ladder, side height 160 mm

90° bend



Type	Dimension B mm	Rail thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WLB 90 162 FS	200	2	1	1,145.000	6229336
WLB 90 163 FS	300	2	1	1,250.000	6229344
WLB 90 164 FS	400	2	1	1,355.000	6229352
WLB 90 165 FS	500	2	1	1,504.000	6229360
WLB 90 166 FS	600	2	1	1,618.000	6229379
WLB 90 162 FT	200	2	1	1,200.000	6229425
WLB 90 163 FT	300	2	1	1,310.000	6229433
WLB 90 164 FT	400	2	1	1,420.000	6229441
WLB 90 165 FT	500	2	1	1,576.000	6229468
WLB 90 166 FT	600	2	1	1,996.000	6229476

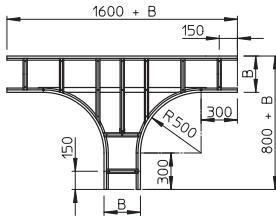
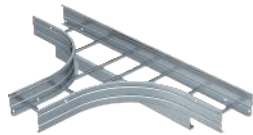
St Steel

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.

Tee



Type	Dimension B mm	Rail thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WLT 1620 FT	200	2	1	2,345.000	6229727
WLT 1630 FT	300	2	1	2,565.000	6229735
WLT 1640 FT	400	2	1	2,725.000	6229743
WLT 1650 FT	500	2	1	2,885.000	6229751
WLT 1660 FT	600	2	1	3,040.000	6229778

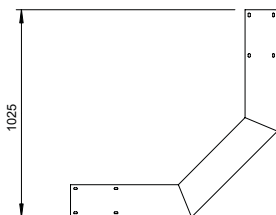
St Steel

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	Rail thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WLBS 90 162 FT	200	2	1	1,275.000	6230423
WLBS 90 163 FT	300	2	1	1,335.000	6230431
WLBS 90 164 FT	400	2	1	1,385.000	6230458
WLBS 90 165 FT	500	2	1	1,445.000	6230466
WLBS 90 166 FT	600	2	1	1,495.000	6230474

St Steel

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

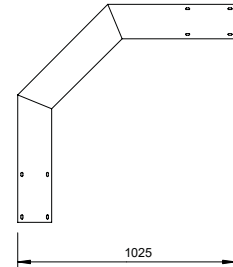
Type	Width mm	Rail thickness mm	Pack. pcs	Weight		Item No.
				kg/100 pcs.		
WLBF 90 162 FT	200	2	1	1,275.000		6230725
WLBF 90 163 FT	300	2	1	1,335.000		6230733
WLBF 90 164 FT	400	2	1	1,385.000		6230741
WLBF 90 165 FT	500	2	1	1,445.000		6230768
WLBF 90 166 FT	600	2	1	1,495.000		6230776

St Steel

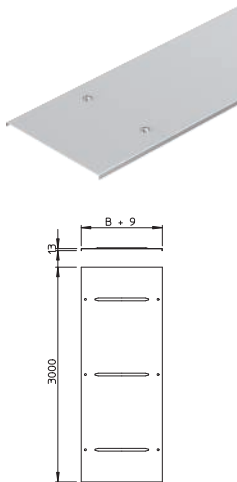
FT Hot-dip galvanised

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.



Cover incl. turn buckles



Type	Dimension B mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
WDRL 1116 20 FS	200	1.00	3000	3	181.340	6227422
WDRL 1116 30 FS	300	1.00	3000	3	259.670	6227430
WDRL 1116 40 FS	400	1.00	3000	3	516.670	6227449
WDRL 1116 50 FS	500	1.50	3000	3	623.000	6227457
WDRL 1116 60 FS	600	1.50	3000	3	741.000	6227465
WDRL 1116 20 DD	200	1.00	3000	3	185.000	6227600
WDRL 1116 30 DD	300	1.00	3000	3	263.340	6227604
WDRL 1116 40 DD	400	1.00	3000	3	505.000	6227608
WDRL 1116 50 DD	500	1.50	3000	3	626.670	6227612
WDRL 1116 60 DD	600	1.50	3000	3	741.000	6227616

St Steel

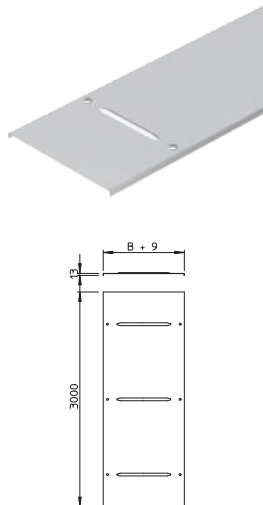
FS Strip-galvanised **DD** Strip galvanised zinc/aluminium, double dip

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 incl. turn buckles



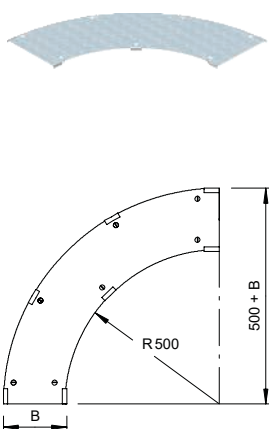
Type	Dimension B mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
WDRL 1116 20 A2	200	1.50	3000	3	186.670	6227360
WDRL 1116 30 A2	300	1.50	3000	3	265.340	6227362
WDRL 1116 40 A2	400	1.50	3000	3	513.000	6227364
WDRL 1116 50 A2	500	1.50	3000	3	629.670	6227366
WDRL 1116 60 A2	600	1.50	3000	3	747.670	6227368

V2A Stainless steel, A2

Cross beading from 500 mm width.

Cover for wide span trays and ladders with the side height 110 and 160 mm.

Cover for 90° bend



Type	Dimension B mm	Plate thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
WDBRL 90 20 FS	200	1.00	1	164.900	6231462
WDBRL 90 30 FS	300	1.00	1	263.000	6231470
WDBRL 90 40 FS	400	1.00	1	449.000	6231489
WDBRL 90 50 FS	500	1.00	1	600.000	6231497
WDBRL 90 60 FS	600	1.00	1	750.000	6231500
WDBRL 90 20 DD	200	1.00	1	291.100	6231527
WDBRL 90 30 DD	300	1.00	1	263.000	6231535
WDBRL 90 40 DD	400	1.00	1	548.000	6231543
WDBRL 90 50 DD	500	1.00	1	697.000	6231551
WDBRL 90 60 DD	600	1.00	1	945.000	6231578

St Steel

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 considered when installing the track elements.

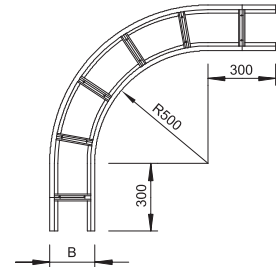
Cover for wide span 90° bend with pre-mounted turn buckles.

90° bend

Type	Dimension B mm	Rail thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WLB 90 112 A4	200	2	1	881.800	6312550
WLB 90 113 A4	300	2	1	1,030.000	6312552
WLB 90 114 A4	400	2	1	1,052.100	6312554
WLB 90 115 A4	500	2	1	1,230.000	6312556
WLB 90 116 A4	600	2	1	1,330.000	6312558

V4A Stainless steel, A4

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.



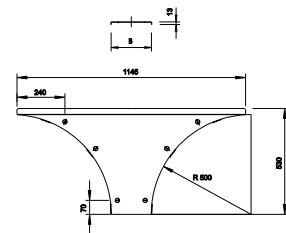
Cover for add-on tee

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WAAD 200 FS	200	1.50	1	193.000	6231900
WAAD 300 FS	300	1.50	1	234.000	6231904
WAAD 400 FS	400	1.50	1	434.000	6231908
WAAD 500 FS	500	1.50	1	476.000	6231912
WAAD 600 FS	600	1.50	1	552.100	6231916
WAAD 200 DD	200	1.50	1	211.000	6231922
WAAD 300 DD	300	1.50	1	251.000	6231926
WAAD 400 DD	400	1.50	1	434.000	6231930
WAAD 500 DD	500	1.50	1	476.000	6231934
WAAD 600 DD	600	1.50	1	538.000	6231938

St Steel

FS Strip-galvanised DD Strip galvanised zinc/aluminium, double dip

Cover for wide span add-on tee with pre-mounted turn buckles.



Cover for tee

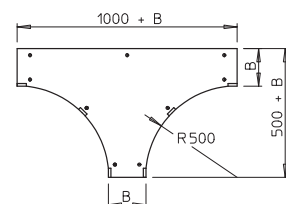
Type	Dimension B mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDTRL 200 DD	200	1.00	1	392.000	6231667
WDTRL 300 DD	300	1.00	1	552.000	6231675
WDTRL 400 DD	400	1.00	1	1,085.000	6231683
WDTRL 500 DD	500	1.25	1	1,419.200	6231691
WDTRL 600 DD	600	1.25	1	1,729.500	6231705

St Steel

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 considered when installing the track elements.

Cover for wide span tee with pre-mounted turn buckles.



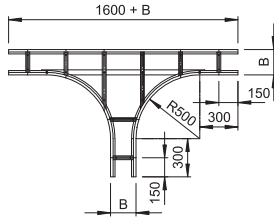
Tee



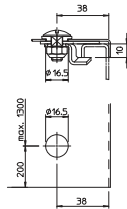
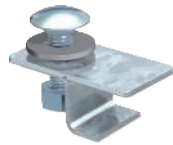
Type	Dimension B mm	Rail thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WLT 1120 A4	200	2	1	1,750.000	6312815
WLT 1130 A4	300	2	1	1,870.000	6312817
WLT 1140 A4	400	2	1	1,990.000	6312819
WLT 1150 A4	500	2	1	2,147.000	6312821
WLT 1160 A4	600	2	1	2,340.000	6312823

V4A Stainless steel, A4

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.



Turn buckle

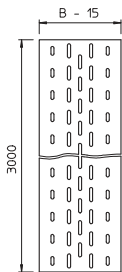
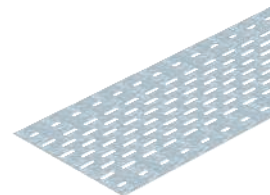


Type	Pack. pcs	Weight kg/100 pcs.	Item No.
WDR 317 A2	10	4.300	6227627
DRLM 316 A2	10	2.800	6222358

V2A Stainless steel, A2

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	Dimension B mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
ELB-L 20 FS	200	1.00	3000	3	91.440	6103235
ELB-L 30 FS	300	1.00	3000	3	140.340	6103251
ELB-L 40 FS	400	1.00	3000	3	189.240	6103286
ELB-L 50 FS	500	1.00	3000	3	238.140	6103316
ELB-L 60 FS	600	1.00	3000	3	285.070	6103332
ELB-L 20 DD	200	1.00	3000	3	91.440	6103352
ELB-L 30 DD	300	1.00	3000	3	140.340	6103356
ELB-L 40 DD	400	1.00	3000	3	189.240	6103360
ELB-L 50 DD	500	1.00	3000	3	333.340	6103364
ELB-L 60 DD	600	1.00	3000	3	285.070	6103368
ELB-L20 A2	200	1.00	3000	3	91.440	6103614
ELB-L30 A2	300	1.00	3000	3	140.340	6103618
ELB-L40 A2	400	1.00	3000	3	189.240	6103622
ELB-L50 A2	500	1.00	3000	3	238.140	6103626
ELB-L60 A2	600	1.00	3000	3	343.500	6103630

St Steel

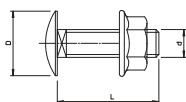
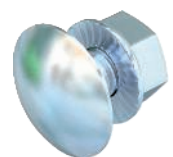
V2A Stainless steel, A2

FS Strip-galvanised DD Strip galvanised zinc/aluminium, double dip

Insert plate for use in cable ladders.

For fastening in wide span cable ladders, use truss-head bolts with combination nut of type FR SB 6x30.

Truss-head bolt with flange nut



Type	Dimension mm	Dimension L mm	Dimension d mm	Dimension D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRSB 6x30 F	M 6 x 30	30	6	13.5	100	1.200	6406907

St Steel

F Hot-dip galvanised

Truss-head bolt with square neck including flange nut.

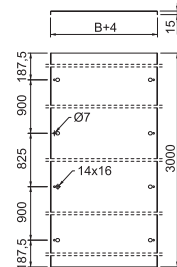
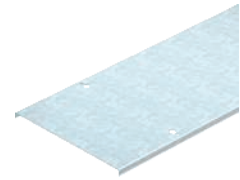
Cover for stand-off mounting

Type	Width mm	Plate		Pack. m	Weight kg/100 m	Item No.
		thickness mm	Length mm			
DRL FAM 230 FT	230	1.50	3000	3	319.240	6051222
DRL FAM 330 FT	330	1.50	3000	3	444.800	6051224
DRL FAM 430 FT	430	1.50	3000	3	570.370	6051226
DRL FAM 530 FT	530	1.50	3000	3	695.900	6051228
DRL FAM 630 FT	630	1.50	3000	3	821.470	6051230
DRL FAM 230 A2	230	1.50	3000	3	299.370	6051192
DRL FAM 330 A2	330	1.50	3000	3	417.140	6051194
DRL FAM 430 A2	430	1.50	3000	3	534.870	6051196
DRL FAM 530 A2	530	1.50	3000	3	652.640	6051198
DRL FAM 630 A2	630	1.50	3000	3	770.370	6051200
DRL FAM 230 A4	230	1.50	3000	3	299.370	6051210
DRL FAM 330 A4	330	1.50	3000	3	417.140	6051212
DRL FAM 430 A4	430	1.50	3000	3	534.870	6051214
DRL FAM 530 A4	530	1.50	3000	3	652.640	6051216
DRL FAM 630 A4	630	1.50	3000	3	770.370	6051218

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FT Hot-dip galvanized

When using covers outdoors, additional measures against the influence of wind must be taken.

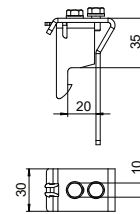


Spacer

Type	Side height mm	Pack. pcs	Weight		Item No.
			kg/100 pcs.	pcs.	
AH 35 WS A2	35	8	14.500	6065477	

V2A Stainless steel, A2

Spacer for stand-off mounting of covers on wide span cable trays and wide span cable ladders. Space height 35 mm, stainless steel 1.4301.



Roof-form cover

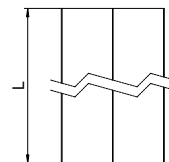
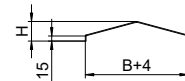
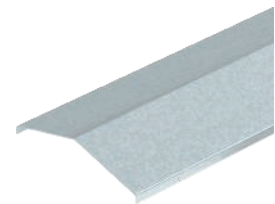
Type	Dimen- sion B mm	Plate		Pack. m	Weight kg/100 m	Item No.
		thickness mm	Length mm			
WDRU DF1116 2FT	200	2.00	3000	3	380.000	6227261
WDRU DF1116 3FT	300	2.00	3000	3	544.340	6227263
WDRU DF1116 4FT	400	2.00	3000	3	707.000	6227265
WDRU DF1116 5FT	500	2.00	3000	3	869.340	6227267
WDRU DF1116 6FT	600	2.00	3000	3	1,032.000	6227269

St Steel

FT Hot-dip galvanized

The screws are not included in the scope of delivery.

Roof-shaped cover for installing on cable trays, cable ladders and wide span systems. Self-tapping drilling screws are used for fastening.



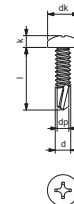
Drilling screw

Type	Dimension mm	Pack. pcs	Weight		Item No.
			kg/100 pcs.	pcs.	
BS BKS KP	M4,2x16	100	0.180	6049250	

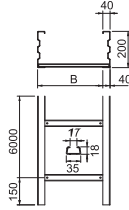
St Steel

G Electrogalvanized

Drilling screw according to DIN 7504.



Wide span cable ladder WKL 2020



Type	Dimension B mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
WKL 2020 FT	200	2.5	6	1,320.000	6232102
WKL 2030 FT	300	2.5	6	1,358.340	6232104
WKL 2040 FT	400	2.5	6	1,398.340	6232106
WKL 2050 FT	500	2.5	6	1,440.000	6232108
WKL 2060 FT	600	2.5	6	1,480.000	6232110

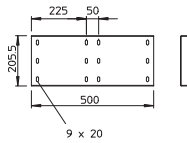
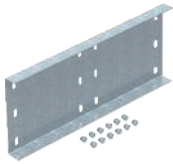
St Steel

FT Hot-dip galvanised

Straight connectors of type WRVL 200 should be ordered separately and in the appropriate quantity.

WKL 200 = Wide span cable ladder with 200 mm side height.

Straight connector



Type	Side height mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
WRV 200 FT	200	4	298.000	6232507

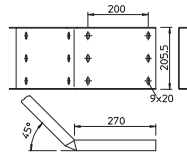
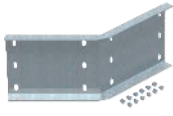
St Steel

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.

45° angle connector, horizontal, inner strut



Type	Side height mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
WRWV 200 I FT	200	4	322.000	6232612

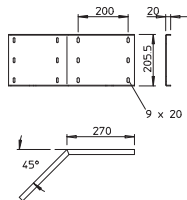
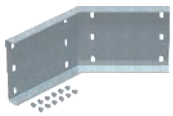
St Steel

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, outer strut



Type	Side height mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
WRWV 200 A FT	200	4	322.000	6232604

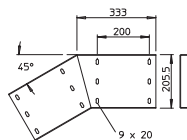
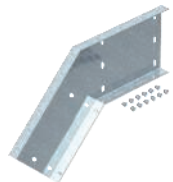
St Steel

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	343.100	6232663

St Steel

FT Hot-dip galvanised

Including appropriate bolts, washers and nuts.

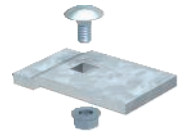
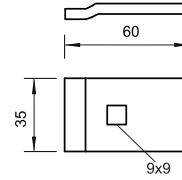
45° angle connector, vertical, for wide span cable ladders of 200 mm side height.

Hold-down clamp

Type	Pack. pcs	Weight		Item No.
		kg/100	pcs.	
LKS 60 5 FT	10	10.000		6232485

- St** Steel
- FT** Hot-dip galvanised

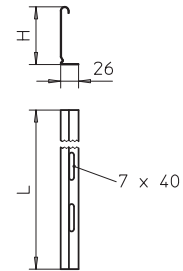
Fastening on bracket, type AW 80, and AWSS using the enclosed truss-head bolt FRS M8x20.
Hold-down clamp for fastening wide span cable ladders.



Separating retainer

Type	Dimen- sion H mm	Plate thickness mm	Dimen- sion L mm	Pack. m	Weight		Item No.
					kg/100 m	pcs	
TSG 110 FS	110	0.75	3000	3	85.000		6062122
TSG 110 DD	110	0.75	3000	3	85.000		6062335

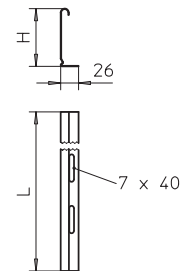
- St** Steel
 - FS** Strip-galvanised
 - DD** Strip galvanised zinc/aluminium,double dip
- Barrier strip for separation of cables of different voltages or functions.



Separating retainer

Type	Dimen- sion H mm	Plate thickness mm	Dimen- sion L mm	Pack. m	Weight		Item No.
					kg/100 m	pcs	
TSG 135 FS	135	0.75	3000	3	100.000		6062132
TSG 135 DD	135	0.75	3000	3	100.000		6062338

- St** Steel
 - FS** Strip-galvanised
 - DD** Strip galvanised zinc/aluminium,double dip
- Barrier strip for separation of cables of different voltages or functions.

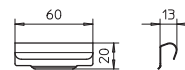


Separating retainer connector

Type	Pack. pcs	Weight		Item No.
		kg/100	pcs.	
TSGV A2	10	0.923		6067970

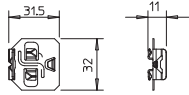
- V2A** Stainless steel, A2

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.



Wide span cable ladder, side height 200 mm

Hold-down clamp for separating retainer fastening VA



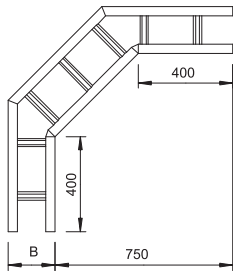
Type

KS KL A2
V2A Stainless steel, A2

Hold-down clamp for screwless fastening of separating retainer in cable ladders.

Pack.	Weight		Item No.
	pcs	kg/100 pcs.	
30	0.512		6062284

90° bend



Type	Dimension B mm	Rail thickness mm	Pack. pcs	Weight		Item No.
				kg/100 pcs.	pcs.	
WLB 90 2020 FT	200	2.5	1	1,881.000		6233422
WLB 90 2030 FT	300	2.5	1	2,060.000		6233430
WLB 90 2040 FT	400	2.5	1	2,241.000		6233449
WLB 90 2050 FT	500	2.5	1	2,421.000		6233457
WLB 90 2060 FT	600	2.5	1	2,600.000		6233465

St Steel

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.

Cover for wide span cable ladders, type WKL 2020

Type	Dimension B mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
WKLD 2020 DD	200	1.50	3000	3	188.000	6232402
WKLD 2030 DD	300	1.50	3000	3	266.670	6232404
WKLD 2040 DD	400	1.50	3000	3	427.670	6232406
WKLD 2050 DD	500	1.50	3000	3	527.340	6232408
WKLD 2060 DD	600	1.50	3000	3	673.340	6232410

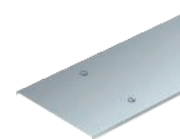
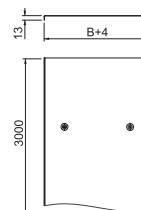
Sl Steel

DD Strip galvanised zinc/aluminium, double dip

Cross beading from 500 mm width.

Lid for wide span ladders with the side height 200 mm.

Take appropriate constructive protection measures if there are high wind speeds.

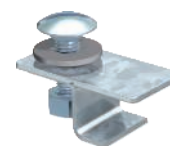
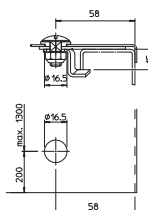


Type	Pack. pcs	Weight kg/100 pcs.	Item No.
WDR 317 A A2	10	2.800	6232434

V2A Stainless steel, A2






Turn buckle for additional installation or installation at a later date in covers for wide span cable ladders, type WKLD 200.

Turn buckle

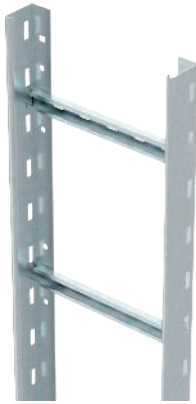




Vertical ladder systems

	Light-duty cable ladder	380
	Medium-duty cable ladder	382
	Heavy-duty cable ladder with U support	385
	Industrial cable ladder	389
	U clamp	393

Cable ladder LG 60 VS



Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
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

SI Steel

FS Strip-galvanised **FT** Hot-dip galvanised

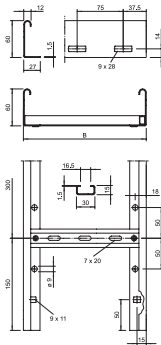
The cable ladder is shipped folded up.

Cables can be mounted with the matching clamp clip, type 2056.

The cable ladders in the widths 200 mm to 400 mm are also approved for vertical mounting as a vertical ladder in systems with electrical functional maintenance according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for function maintenance, type 2056 M.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

Dimensions



Type	Length mm	Width mm	Rail thickness mm	Useful cross- section cm ²	Rung spacing mm
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

Cable ladder LG 60 VS

Type	Rail		Pack.	Weight		Item No.
	Width mm	thickness mm		m	kg/100 m	
LG 620 VS 6 FS	200	1.5	6	269.750	6208627	
LG 630 VS 6 FS	300	1.5	6	293.380	6208630	
LG 640 VS 6 FS	400	1.5	6	317.083	6208633	
LG 650 VS 6 FS	500	1.5	6	340.750	6208636	
LG 660 VS 6 FS	600	1.5	6	364.750	6208639	
LG 620 VS 6 FT	200	1.5	6	287.583	6208650	
LG 630 VS 6 FT	300	1.5	6	312.916	6208653	
LG 640 VS 6 FT	400	1.5	6	337.916	6208656	
LG 650 VS 6 FT	500	1.5	6	363.250	6208659	
LG 660 VS 6 FT	600	1.5	6	388.916	6208661	
LG 620 VS6 A2	200	1.5	6	273.800	6208700	
LG 630 VS6 A2	300	1.5	6	298.000	6208703	
LG 640 VS6 A2	400	1.5	6	322.200	6208706	
LG 650 VS6 A2	500	1.5	6	346.300	6208709	
LG 660 VS6 A2	600	1.5	6	378.300	6208712	
LG 620 VS6 A4	200	1.5	6	273.800	6101200	
LG 630 VS6 A4	300	1.5	6	298.000	6101208	
LG 640 VS6 A4	400	1.5	6	322.200	6101216	
LG 650 VS6 A4	500	1.5	6	346.300	6101223	
LG 660 VS6 A4	600	1.5	6	378.300	6101232	

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FS Strip-galvanised FT Hot-dip galvanised

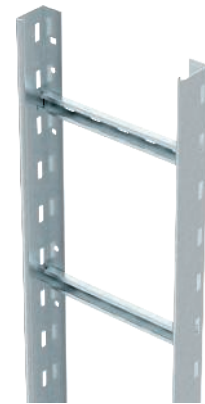
The cable ladder is shipped folded up.

Cables can be mounted with the matching clamp clip, type 2056.

The cable ladders in the widths 200 mm to 400 mm are also approved for vertical mounting as a vertical ladder in systems with electrical functional maintenance according to DIN 4102 Part 12.

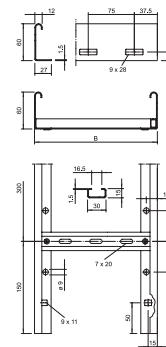
Cables can be mounted with the clamp clip approved for function maintenance, type 2056 M.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).



Type	Length mm	Width mm	Rail thickness mm	Useful cross- section cm ²	Rung spacing mm
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

Dimensions



Medium-duty vertical cable ladder SLL, 6,000 mm



Type	Rail		Pack.	Weight		Item No.
	Width mm	thickness mm		m	kg/100 m	
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	

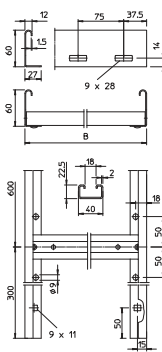
St Steel

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 clamp clip is type 2056U.

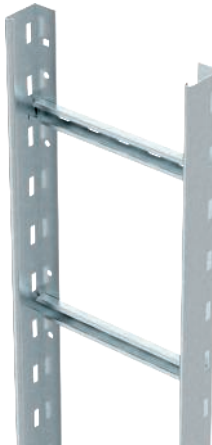
Vertical ladder with a side height of 60 mm with riveted C profile rungs, open in upwards direction.

Dimensions



Type	Length mm	Width mm	Side height mm	Rail thickness mm	Useful cross- section cm ²	Rung spacing mm
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

Medium-duty vertical cable ladder SLG, 6,000 mm



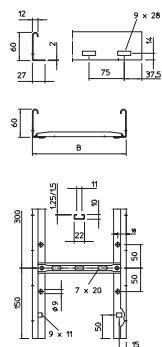
Type	Rail		Pack.	Weight		Item No.
	Width mm	thickness mm		m	kg/100 m	
SLG 620 NS 6 FT	200	2	6	335.800	6207991	
SLG 630 NS 6 FT	300	2	6	351.200	6207993	
SLG 640 NS 6 FT	400	2	6	366.200	6207995	
SLG 650 NS 6 FT	500	2	6	393.300	6207997	
SLG 660 NS 6 FT	600	2	6	410.700	6207999	

St Steel

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.

Dimensions



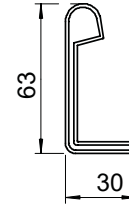
Type	Length mm	Width mm	Side height mm	Rail thickness mm	Useful cross- section cm ²	Rung spacing mm
SLG 630 NS 6 FT	6000	300	60	2	148	300
SLG 640 NS 6 FT	6000	400	60	2	198	300
SLG 650 NS 6 FT	6000	500	60	2	248	300
SLG 660 NS 6 FT	6000	600	60	2	298	300

End cap

Type	Colour	Pack. pair	Weight kg/100 pairs	Item No.
SKH 60 OR	Pastel orange	40	1.072	6222537

PE Polyethylene

End cap to cover cable ladder ends of side height 60 mm.



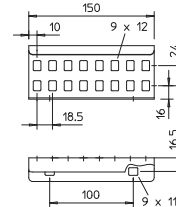
Straight connector

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
LVG 60 A2	60	10	22.000	6208846

St Steel V2A Stainless steel, A2
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.



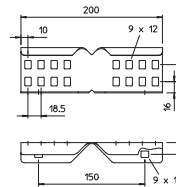
Straight and angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
LWVG 60 FS	60	10	24.000	6208895
LWVG 60 A2	60	10	24.000	6208898

St Steel V2A Stainless steel, A2
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.



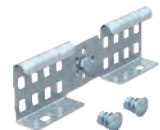
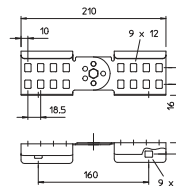
Adjustable connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
LGVG 60 FS	60	10	28.500	6208941
LGVG 60 FT	60	10	29.900	6208944
LGVG 60 A2	60	10	28.500	6208947

St Steel V2A Stainless steel, A2
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.

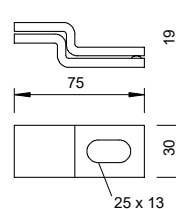


Type	Pack. pcs	Weight kg/100 pcs	Item No.
WB 30 75 FT	10	18.100	6019617
WB 30 75 A2	10	18.000	6019668

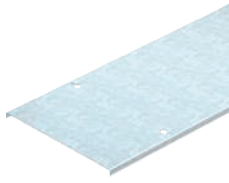
St Steel V2A Stainless steel, A2
FT Hot-dip galvanised

Wall bracket for fastening vertical ladders to concrete walls and masonry.

Wall bracket



Cover for stand-off mounting

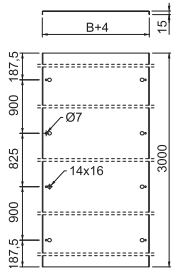


Type	Plate			Pack. m	Weight		Item No.
	Width mm	thickness mm	Length mm		kg/100 m		
DRL FAM 230 FT	230	1.50	3000	3	319.240		6051222
DRL FAM 330 FT	330	1.50	3000	3	444.800		6051224
DRL FAM 430 FT	430	1.50	3000	3	570.370		6051226
DRL FAM 530 FT	530	1.50	3000	3	695.900		6051228
DRL FAM 630 FT	630	1.50	3000	3	821.470		6051230

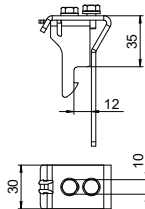
SI Steel

FT Hot-dip galvanised

When using covers outdoors, additional measures against the influence of wind must be taken.



Spacer

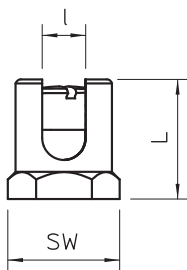


Type	Side height mm	Weight		Item No.
		Pack. pcs	kg/100 pcs.	
AH 35 A2	35	8	14.100	6065475

V2A Stainless steel, A2

Spacers for stand-off cover mounting on cable trays and cable ladders. Space height 35 mm, stainless steel 1.4301.

Earthing terminal with fastening thread



Type	Dimen- sion L mm	Dimen- sion I mm	Cross- section mm ²	Thread	Weight		Item No.
					Pack. pcs	kg/100 pcs.	
EKL 25 M8	26	10	25	M8	50	3.970	6404001

CuZn Brass

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

Heavy-duty vertical cable ladder, 3,000 mm

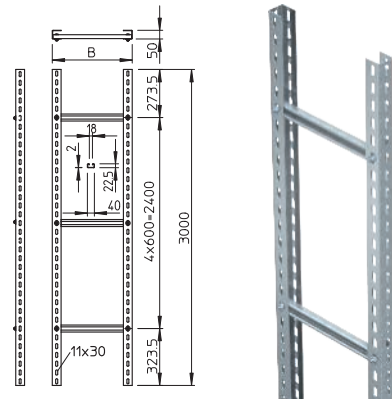
Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SLM 50 C40 2 FT	200	2.5	3	580.000	6010466
SLM 50 C40 3 FT	300	2.5	3	615.000	6010474
SLM 50 C40 4 FT	400	2.5	3	640.000	6010482
SLM 50 C40 5 FT	500	2.5	3	675.000	6010490
SLM 50 C40 6 FT	600	2.5	3	695.000	6010504
SLM 50 C40 7 FT	700	2.5	3	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

FT Hot-dip galvanised

The appropriate clamp clip for the C profile rung is type 2056U.

The vertical ladder with 50 mm side height is shipped in an unmounted state and must be screwed together on the construction site.



US 5 support

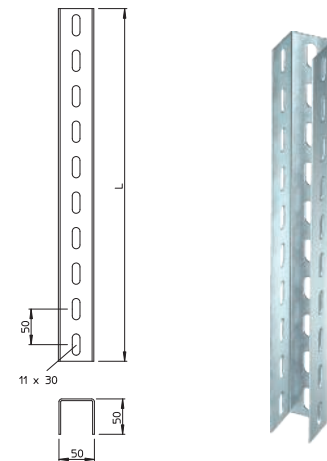
Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 20 FT	200	2.5	1	51.000	6340881
US 5 30 FT	300	2.5	1	79.000	6340903
US 5 40 FT	400	2.5	1	106.000	6340911
US 5 50 FT	500	2.5	1	133.000	6340938
US 5 60 FT	600	2.5	1	160.000	6340946
US 5 70 FT	700	2.5	1	175.000	6340950
US 5 80 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

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

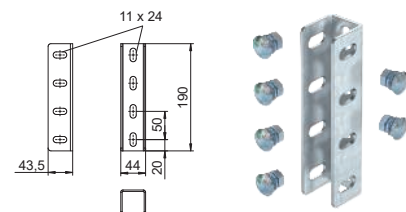
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VUS 5 FT	10	44.000	6018505

St Steel

FT Hot-dip galvanised

Including appropriate fastening material.

U support connector to connect US 5 supports.

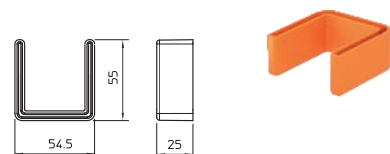


End cap

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 KS OR	Pastel orange	20	1.300	6338462

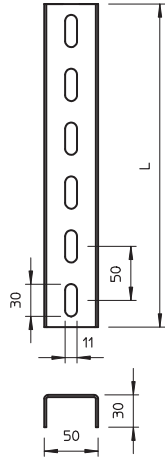
PE Polyethylene

End cap to cover the ends of US 5 supports.



Heavy-duty vertical ladder with U support

US 3 support



Type	Material		Pack. pcs.	Weight kg/100 pcs.	Item No.
	Length mm	thickness mm			
US 3 600 FT	6000	2	1	834.000	6342450

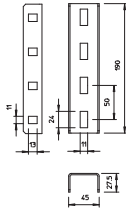
St Steel

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.

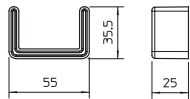
St Steel

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.

PE Polyethylene

End cap to cover the ends of US 3 supports.

US 7 support

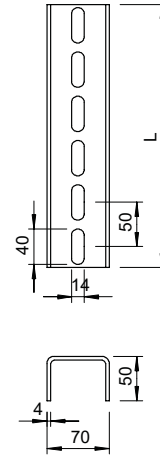
Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 7 20 FT	200	4	1	81.000	6340016
US 7 30 FT	300	4	1	121.000	6340032
US 7 40 FT	400	4	1	166.000	6340059
US 7 50 FT	500	4	1	208.000	6340075
US 7 60 FT	600	4	1	249.000	6340091
US 7 70 FT	700	4	1	290.000	6340113
US 7 80 FT	800	4	1	323.000	6340148
US 7 90 FT	900	4	1	370.000	6340164
US 7 100 FT	1000	4	1	416.000	6340180
US 7 110 FT	1100	4	1	457.000	6340199
US 7 120 FT	1200	4	1	484.000	6340202
US 7 130 FT	1300	4	1	540.000	6340210
US 7 140 FT	1400	4	1	580.000	6340229
US 7 150 FT	1500	4	1	620.000	6340237
US 7 160 FT	1600	4	1	660.000	6340245
US 7 180 FT	1800	4	1	750.000	6340261
US 7 190 FT	1900	4	1	790.000	6340288
US 7 200 FT	2000	4	1	807.000	6340296
US 7 300 FT	3000	4	1	1,250.000	6340377
US 7 400 FT	4000	4	1	1,660.000	6340393
US 7 600 FT	6000	4	1	2,490.000	6340318

St. Steel

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

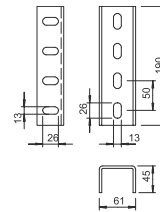
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VUS 7 FT	10	113.400	6018378

St. Steel

FT Hot-dip galvanised

Including appropriate fastening material.

U support connector to connect US 7 supports.

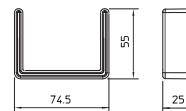


End cap

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
US 7 KS OR	Pastel orange	20	1.806	6338497

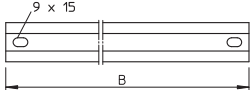
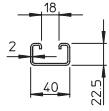
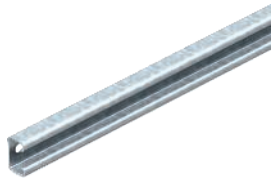
PE Polyethylene

End cap to cover the ends of US 7 supports.



Heavy-duty vertical ladder with U support

MS4022 profile rail, heavy-duty, slot 18 mm



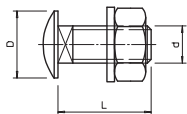
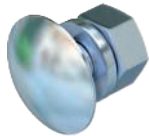
Type	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MS4022P0192FT	2	192	10	31.800	6007201
MS4022P0292FT	2	292	10	44.700	6007228
MS4022P0392FT	2	392	10	60.100	6007236
MS4022P0492FT	2	492	10	81.500	6007244
MS4022P0592FT	2	592	10	96.000	6007252
MS4022P0692FT	2	692	10	113.000	6007260
MS4022P0792FT	2	792	10	130.000	6007279
MS4022P0892FT	2	892	10	145.000	6007287
MS4022P0992FT	2	992	10	162.000	6007295
MS4022P1092FT	2	1092	10	178.000	6007309
MS4022P1192FT	2	1192	10	197.500	6007317

St Steel

Ft Hot-dip galvanised

Profile rail MS4022 for use as rung in heavy-duty ladders.

Truss-head bolt with nut and washer



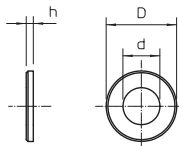
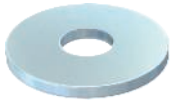
Type	Dimension mm	Dimension L mm	Dimension D mm	Resistance class	Pack. pcs	Weight kg/100 pcs.	Item No.
FRS 8x25 F	M 8 x 25	25	20	8.8	50	2.300	6406998
FRS 8x16 F 8.8	M 8 x 16	16	20	8.8	50	2.200	6406963

St Steel

F Hot-dip galvanised

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.

Large washer



Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN440 9 F	M8	9	28	3	100	1.344	6408710

St Steel

F Hot-dip galvanised

Washer of particularly large outer diameter.

Industrial vertical cable ladder C40

Type	Width mm	Pack. m	Weight		Item No.
			m	kg/100 m	
SLS 80 C40 2 FT	200	6		1,277.170	6013384
SLS 80 C40 3 FT	300	6		1,304.840	6013392
SLS 80 C40 4 FT	400	6		1,286.670	6013406
SLS 80 C40 5 FT	500	6		1,360.000	6013414
SLS 80 C40 6 FT	600	6		1,387.670	6013422
SLS 80 C40 7 FT	700	6		1,415.340	6013430
SLS 80 C40 8 FT	800	6		1,443.000	6013449
SLS 80 C40 9 FT	900	6		1,470.670	6013457
SLS 80 C40 10 FT	1000	6		1,498.170	6013465
SLS 80 C40 11 FT	1100	6		1,525.840	6013473
SLS 80 C40 12 FT	1200	6		1,556.670	6013481

St Steel

FT Hot-dip galvanised

The vertical ladder is shipped in an unmounted state.

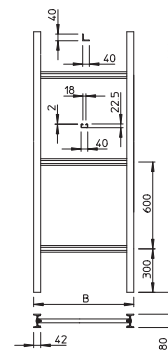
The appropriate clamp clip is type 2056U.

Vertical ladder of side height 80 mm with screwed-in rungs.



Type	Length mm	Width mm	Side height mm	Rung spacing mm
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

Dimensions



Industrial vertical cable ladder W40

Type	Width mm	Pack. m	Weight		Item No.
			m	kg/100 m	
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

FT Hot-dip galvanised

The vertical ladder is shipped in an unmounted state.

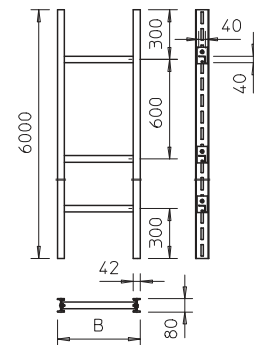
The appropriate U clamp is type 2056W.

Vertical ladder of side height 80 mm with screwed-in rungs.

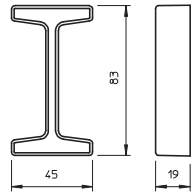


Type	Length mm	Width mm	Side height mm	Rung spacing mm
SLS 80 W40 5 FT	6000	500	80	600
SLS 80 W40 6 FT	6000	600	80	600
SLS 80 W40 7 FT	6000	700	80	600
SLS 80 W40 8 FT	6000	800	80	600
SLS 80 W40 9 FT	6000	900	80	600
SLS 80 W40 10 FT	6000	1000	80	600

Dimensions



End cap

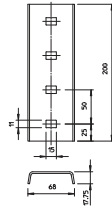


Type	Colour	Pack. pcs.	Weight		Item No.
			kg/100 pcs.		
IS 8 KS OR	Pastel orange	20	0.800		6338519

PE Polyethylene

End cap to cover the ends of IS 8 supports.

I support connector



Type	Pack. pcs.	Weight		Item No.
		kg/100 pcs.		
VIS 8 FT	10	87.000		6018300

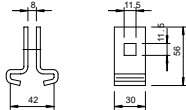
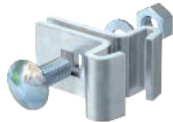
SI Steel

FT Hot-dip galvanised

Including appropriate fastening material.

I support connector to connect IS 8 supports.

Support claw



Type	Pack. pcs.	Weight		Item No.
		kg/100 pcs.		
TGK 30 42 FT	10	17.000		6018963

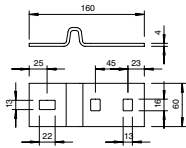
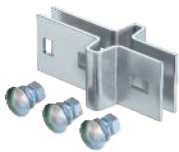
SI Steel

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.

Support strap



Type	Pack. pcs.	Weight		Item No.
		kg/100 pcs.		
AHIS 8 FT	10	89.900		6019064

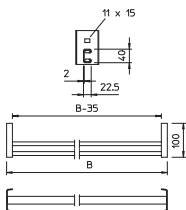
SI Steel

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		Item No.
			kg/100 pcs.		
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

SI Steel

FT Hot-dip galvanised

The maximum rung load is 175 kg.

CK40 rung for use in heavy-duty vertical ladders and in IS 8 supports.

Rung CKD 40

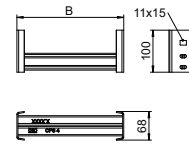
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
CKD 40 60 FT	554	1	211.000	6008269
CKD 40 70 FT	654	1	243.000	6008277
CKD 40 80 FT	754	1	275.000	6008285
CKD 40 90 FT	854	1	307.000	6008293

St Steel

FT Hot-dip galvanised

The maximum rung load is 175 kg.

CKD40 rung for use in heavy-duty vertical ladders and in IS 8 supports.



Rung WSK 40

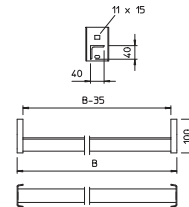
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WSK 40 40 FT	354	1	122.000	6008046
WSK 40 50 FT	454	1	147.000	6008054
WSK 40 60 FT	554	1	172.000	6008062
WSK 40 70 FT	654	1	197.000	6008070
WSK 40 80 FT	754	1	222.000	6008089
WSK 40 90 FT	854	1	245.000	6008097
WSK 40 100 FT	954	1	272.000	6008100

St Steel

FT Hot-dip galvanised

The maximum rung load is 250 kg.

Angle profile rungs for use in heavy-duty vertical ladders and in IS 8 supports.



Rung seat

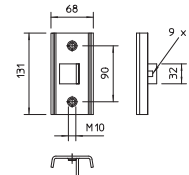
Type	Pack. pair	Weight kg/100 pairs	Item No.
SA MS4022 FT	5	84.000	6007496

St Steel

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 MS4022 to IS 8 supports.



Rung seat for steel supports

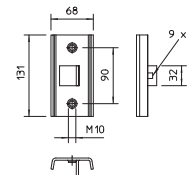
Type	Pack. pair	Weight kg/100 pairs	Item No.
SAA MS4022 FT	5	82.600	6007498

St Steel

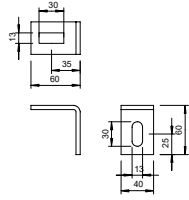
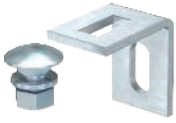
FT Hot-dip galvanised

The set consists of two rung seats, two hexagonal bolts M8 x 16 mm and four hexagonal bolts with an M10 x 30 application tip.

Rung seat for fastening rungs of type MS4022 to steel girders.



Mounting angle



Type

BW 60 40 FT

BW 60 40 A2

St Steel **V2A** Stainless steel, A2

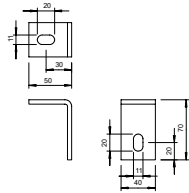
FT Hot-dip galvanised

Including truss-head bolt M12 x 25.

Mounting angle of limb dimension 60 x 60 mm.

Pack.	Weight		Item No.
	pcs.	kg/100 pcs.	
10	22.000		6019560
10	22.000		6019587

Mounting angle



Type

BW 70 40 FT

St Steel

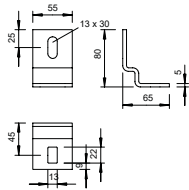
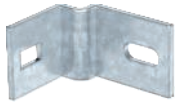
FT Hot-dip galvanised

Including truss-head bolt M10 x 25.

Mounting angle of limb dimension 70 x 50 mm.

Pack.	Weight		Item No.
	pcs.	kg/100 pcs.	
10	22.000		6019706

Fastening bracket



Type

BW 80 55 FT

St Steel

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 M12x30.

Mounting angle for mounting IS 8 supports on the wall.

Pack.	Weight		Item No.
	pcs.	kg/100 pcs.	
10	32.900		6019528

Clamp clip, single, plastic pressure trough

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	5.970	1163396
2056N 46 FT	40 - 46	100	6.640	1163469
2056N 52 FT	46 - 52	100	7.270	1163523
2056N 58 FT	52 - 58	50	10.560	1163582
2056N 64 FT	58 - 64	50	11.200	1163647
2056N 70 FT	64 - 70	50	12.330	1163701

Sl Steel

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.

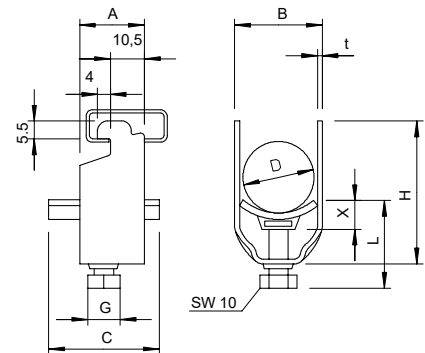
Clip and bolt made of hot-dip galvanised steel.

Polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

D mm	A mm	P 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



Dimensions



Clamp clip, single, plastic pressure trough



Type	Clamping range D mm	Weight		Item No.
		Pack. pcs	kg/100 pcs	
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

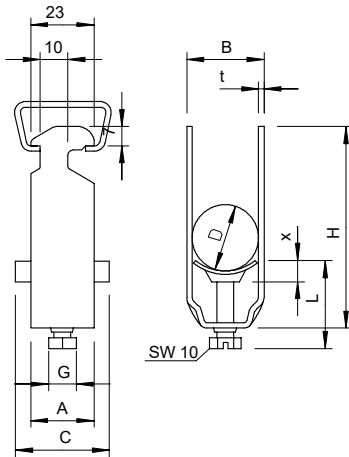
St Steel

FT Hot-dip galvanised

Suitable for all C profile rails with slot width 16–17 mm.

Hot-dip galvanised steel clip and bolt, polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Dimensions



D mm	A mm	P 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	39	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

Clamp clip, single, plastic pressure trough

Type	Clamping range D mm	Pack. pcs.	Weight	
			kg/100 pcs.	Item No.
2056 12 A2	8 - 12	50	3.300	1159518
2056 16 A2	12 - 16	50	3.600	1159526
2056 22 A2	16 - 22	50	4.200	1159534
2056 28 A2	22 - 28	50	6.500	1159542
2056 34 A2	28 - 34	50	7.400	1159550
2056 40 A2	34 - 40	25	8.000	1159569
2056 46 A2	40 - 46	25	10.900	1159577
2056 52 A2	46 - 52	25	11.400	1159585
2056 58 A2	52 - 58	25	14.500	1159593
2056 64 A2	58 - 64	15	15.600	1159607
2056 70 A2	64 - 70	15	18.200	1159615
2056 76 A2	70 - 76	10	20.800	1159623

V2A Stainless steel, A2

Suitable for all C profile rails with slot width 16–17 mm.

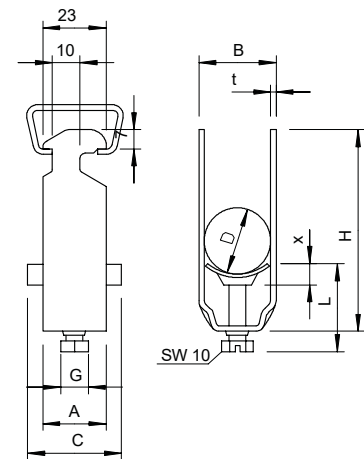
Clip and bolt.

Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

D mm	A mm	P 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	39	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



Dimensions



Clamp clip, single, metal pressure trough



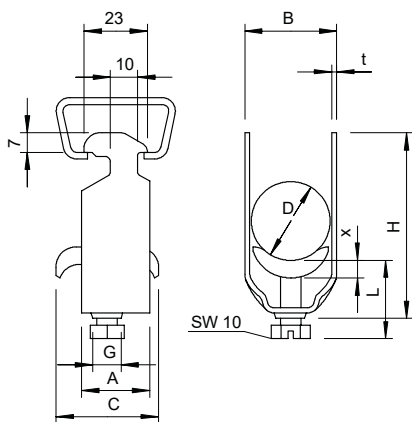
Type	Clamping range D mm	Weight		Item No.
		Pack. pcs	kg/100 pcs	
2056 M 12 A2	8 - 12	50	3.200	1159712
2056 M 16 A2	12 - 16	50	3.500	1159716
2056 M 22 A2	16 - 22	50	4.400	1159722
2056 M 28 A2	22 - 28	25	6.100	1159728
2056 M 34 A2	28 - 34	25	7.700	1159734
2056 M 40 A2	34 - 40	25	8.600	1159740
2056 M 46 A2	40 - 46	25	9.600	1159746
2056 M 52 A2	46 - 52	25	10.400	1159752
2056 M 58 A2	52 - 58	15	13.100	1159758
2056 M 64 A2	58 - 64	15	14.500	1159764
2056 M 70 A2	64 - 70	15	16.100	1159770
2056 M 76 A2	70 - 76	10	18.300	1159776

V2A Stainless steel, A2

Suitable for all C profile rails with slot width 16–17 mm.

Clip, bolt and pressure trough all made of rust-proof 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	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

Clamp clip, double, plastic pressure trough

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	5.120	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	14.900	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

FT Hot-dip galvanised

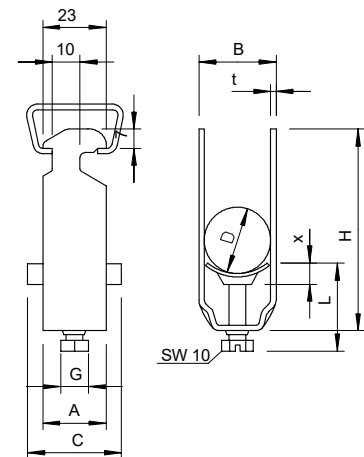
Suitable for all C profile rails with slot width 16–17 mm.

Hot-dip galvanised steel clip and bolt, polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

D mm	A mm	P mm	C mm	G mm	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



Dimensions



Clamp clip, triple, plastic pressure trough



Type	Clamping range D mm	Weight		Item No.
		Pack. pcs.	kg/100 pcs.	
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

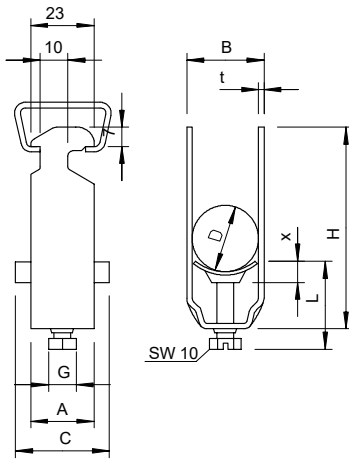
SI Steel

FT Hot-dip galvanised

Suitable for all C profile rails with slot width 16–17 mm.

Hot-dip galvanised steel clip and bolt, polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Dimensions



D mm	A mm	P mm	C mm	G mm	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

Clamp clip, single, plastic pressure trough

Type	Clamping range D mm	Pack. pcs	Weight		Item No.
			kg/100	pcs.	
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	

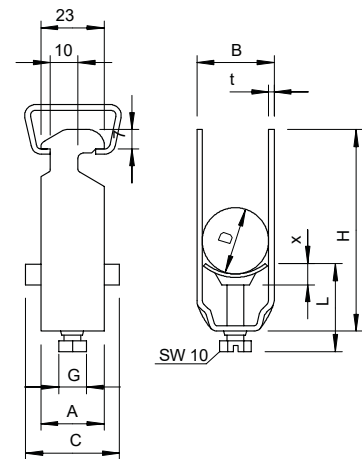
Alu Aluminium

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.

D mm	A mm	P mm	C mm	G mm	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	39	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



Dimensions



Clamp clip, double, plastic pressure trough

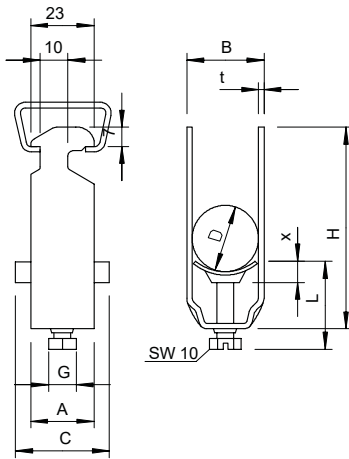


Type	Clamping range D mm	Weight		Item No.
		Pack. pcs	kg/100 pcs	
2056 2 12 ALU	8 - 12	50	1.000	1183389
2056 2 16 ALU	12 - 16	50	1.250	1183397
2056 2 22 ALU	16 - 22	50	1.500	1183400
2056 2 28 ALU	22 - 28	50	2.000	1183419
2056 2 34 ALU	28 - 34	50	3.200	1183427
2056 2 40 ALU	34 - 40	50	3.750	1183435
2056 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

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	P mm	C mm	G mm	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

Clamp clip, single, metal pressure trough

Type	Clamping range D mm	Pack. pcs	Weight		Item No.
			kg/100	pcs.	
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	24.500		1156160

St Steel

FT Hot-dip galvanised

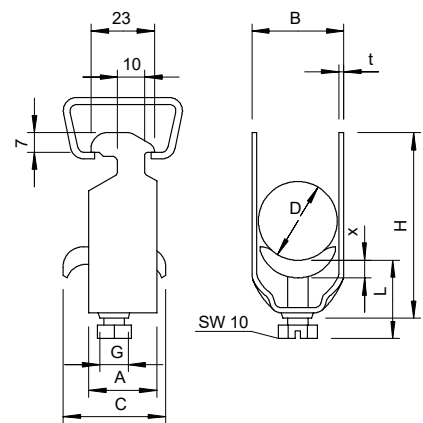
Suitable for all C profile rails with slot width 16–17 mm.

Clip, bolt and pressure trough made of hot-dip galvanised steel.

D mm	A mm	P 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



Dimensions



Clamp clip, single, plastic pressure trough



Type	Clamping range D mm	Weight		Item No.
		Pack. pcs	kg/100 pcs.	
2056U 12 FT	8 - 12	100	3.150	1175122
2056U 16 FT	12 - 16	100	3.600	1175165
2056U 22 FT	16 - 22	100	3.223	1175211
2056U 28 FT	22 - 28	100	4.344	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

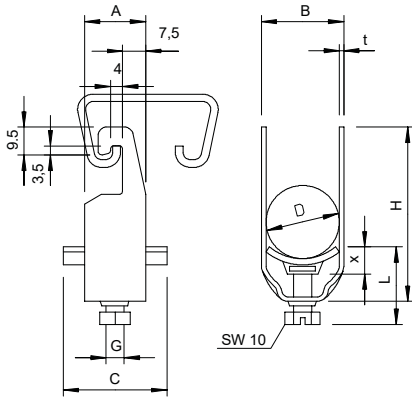
St Steel

FT Hot-dip galvanised

Suitable for all C profile rails with slot width 18 mm and 22 mm.

Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Dimensions



D mm	A mm	P 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

Clamp clip, single, plastic pressure trough

Type	Clamping range D mm	Pack. pcs	Weight	
			kg/100 pcs.	Item No.
2056U 12 A2	8 - 12	50	3.000	1178504
2056U 16 A2	12 - 16	50	3.200	1178512
2056U 22 A2	16 - 22	50	3.800	1178520
2056U 28 A2	22 - 28	50	5.350	1178539
2056U 34 A2	28 - 34	50	7.200	1178547
2056U 40 A2	34 - 40	25	8.100	1178555
2056U 46 A2	40 - 46	25	9.900	1178563
2056U 52 A2	46 - 52	25	11.200	1178571
2056U 58 A2	52 - 58	25	13.400	1178598
2056U 64 A2	58 - 64	15	14.300	1178601
2056U 70 A2	64 - 70	15	20.500	1178628
2056U 76 A2	70 - 76	10	19.100	1178636

V2A Stainless steel, A2

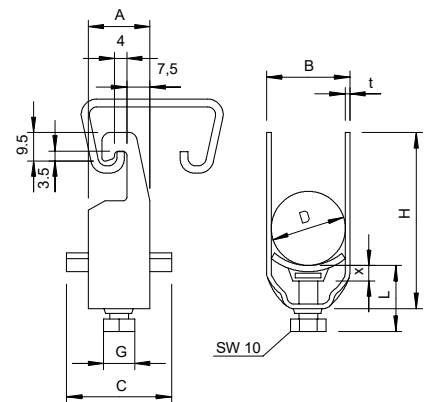
Suitable for all C profile rails with slot width 18 mm and 22 mm.

Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

D mm	A mm	P 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



Dimensions



Clamp clip, double, plastic pressure trough



Type	Clamping range D mm	Weight		Item No.
		Pack. pcs	kg/100 pcs	
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

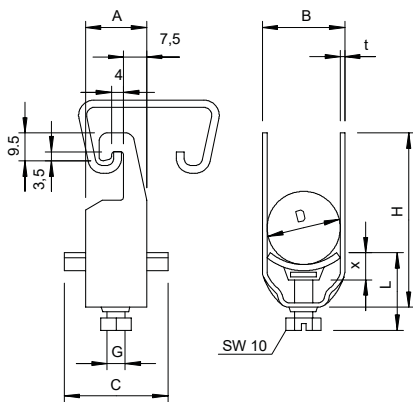
SI Steel

FT Hot-dip galvanised

Suitable for all C profile rails with slot width 18 mm and 22 mm.

Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Dimensions



D mm	A mm	P 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

Clamp clip, triple, plastic pressure trough

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

FT Hot-dip galvanised

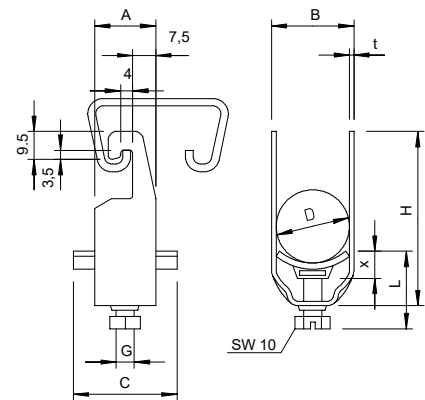
Suitable for all C profile rails with slot width 18 mm and 22 mm.

Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.



D mm	A mm	P mm	C mm	G mm	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

Dimensions



Clamp clip, single, plastic pressure trough



Type	Clamping range D mm	Weight		Item No.
		Pack. pcs	kg/100 pcs.	
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

St Steel

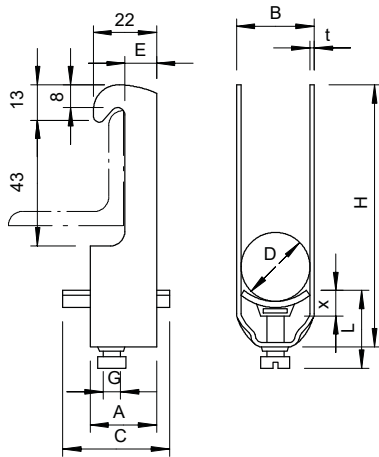
FT Hot-dip galvanised

Suitable for angular steel of 40 mm limb length.

Clip and bolt made of hot-dip galvanised steel.

Polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Dimensions



D mm	A mm	P 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

Clamp clip, double, plastic pressure trough



Type	Clamping range D mm	Weight		Item No.
		Pack. pcs	kg/100 pcs.	
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

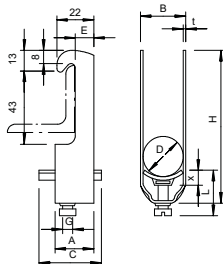
FT Hot-dip galvanised

Suitable for angular steel of 40 mm limb length.

Clip and bolt made of hot-dip galvanised steel.

Polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Dimensions



D mm	A mm	P mm	C mm	G	t mm	x mm	H mm	L mm
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

Clamp clip, single, plastic pressure trough FT

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	8.740	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

St Steel

FT Hot-dip galvanised

Suitable for flat, bracket and U irons of 4–12 mm material thickness.

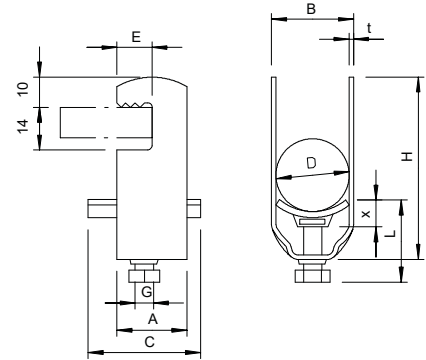
Clip and bolt made of hot-dip galvanised steel.

Polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

D mm	A mm	P mm	C mm	G mm	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



Dimensions



Clamp clip, double, plastic pressure trough



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	10.672	1170406
2056F 2 46 FT	40 - 46	50	12.050	1170465
2056F 2 52 FT	46 - 52	50	16.600	1170511

St Steel

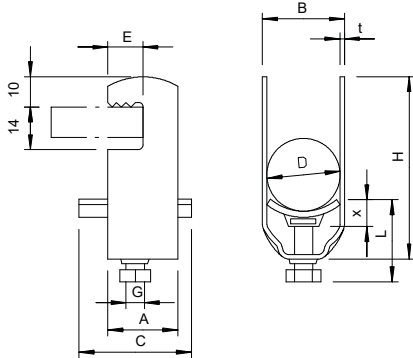
FT Hot-dip galvanised

Suitable for flat, bracket and U irons of 4–12 mm material thickness.

Clip and bolt made of hot-dip galvanised steel.

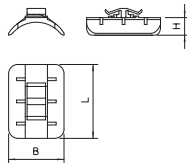
Polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Dimensions



D mm	A mm	P 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-trough, plastic 16–17 mm slot width



Type	Clamping range D mm	Shipping box pcs	Weight		
			Pack. pcs	kg/100 pcs.	
2058 12 LGR	8 - 12	2400	100	0.146	1195123
2058 16 LGR	12 - 16	1200	100	0.162	1195166
2058 22 LGR	16 - 22	1000	100	0.172	1195220
2058 28 LGR	22 - 28	1000	100	0.200	1195271
2058 34 LGR	28 - 34	1200	100	0.302	1195344
2058 40 LGR	34 - 40	1200	100	0.331	1195409
2058 46 LGR	40 - 46	1200	100	0.385	1195468
2058 52 LGR	46 - 52	1200	100	0.391	1195522
2058 58 LGR	52 - 58	1200	100	0.430	1195581
2058 64 LGR	58 - 64	500	50	0.432	1195646
2058 70 LGR	64 - 70	500	50	0.453	1195700

PP Polypropylene

Area of use rails with slot width 16–17 mm. Counter-trough is clamped into the slot width as protection between the cable and rail.

Counter-trough, 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	0.102	1197126
2058FW 16 LGR	12 - 16	1200	100	0.131	1197169
2058FW 22 LGR	16 - 22	1000	100	0.164	1197223
2058FW 28 LGR	22 - 28	1000	100	0.206	1197282
2058FW 34 LGR	28 - 34	1200	100	0.289	1197347
2058FW 40 LGR	34 - 40	1200	100	0.311	1197401
2058FW 46 LGR	40 - 46	1200	100	0.416	1197460
2058FW 52 LGR	46 - 52	1200	100	0.420	1197525
2058FW 58 LGR	52 - 58	1600	100	0.444	1197584
2058FW 64 LGR	58 - 64	600	50	0.500	1197649
2058FW 70 LGR	64 - 70	400	50	0.536	1197703
2058FW 76 LGR	70 - 76	500	25	0.637	1197762
2058FW 82 LGR	76 - 82	500	25	0.641	1197827
2058FW 90 LGR	82 - 90	500	25	0.870	1197908
2058FW 100 LGR	90 - 100	500	25	0.900	1197991

PP Polypropylene

Irrespective of the rail, universally applicable by pushing onto a limb of the BBS clamp clip.



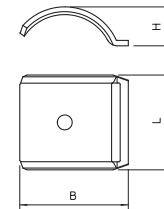
Counter-trough, metal, universal

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
2058FW M 8 A2	4 - 8	1500	100	0.249	1197096
2058FW M 12 A2	8 - 12	1200	100	0.567	1197134
2058FW M 16 A2	12 - 16	1000	100	0.770	1197177
2058FW M 22 A2	16 - 22	1200	100	1.062	1197231
2058FW M 28 A2	22 - 28	1000	100	1.356	1197290
2058FW M 34 A2	28 - 34	400	100	2.187	1197355
2058FW M 40 A2	34 - 40	300	100	2.576	1197428
2058FW M 46 A2	40 - 46	200	100	3.005	1197479
2058FW M 52 A2	46 - 52	200	50	3.425	1197533
2058FW M 58 A2	52 - 58	200	50	3.776	1197592
2058FW M 64 A2	58 - 64	600	50	4.203	1197606

St Steel V2A Stainless steel, A2

FT Hot-dip galvanised

Irrespective of the rail, universally applicable by pushing onto a limb of the BBS clamp clip.

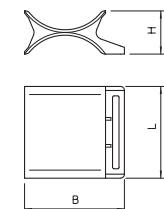


Double trough, plastic

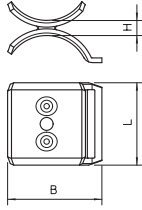
Type	Clamping range D mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
2058 2 12 LGR	8 - 12	2100	50	0.126	1196111
2058 2 16 LGR	12 - 16	1200	50	0.166	1196162
2058 2 22 LGR	16 - 22	600	50	0.210	1196227
2058 2 28 LGR	22 - 28	500	50	0.278	1196286
2058 2 34 LGR	28 - 34	600	50	0.336	1196340
2058 2 40 LGR	34 - 40	600	50	0.427	1196405
2058 2 46 LGR	40 - 46	600	50	0.676	1196464
2058 2 52 LGR	46 - 52	600	50	0.775	1196529
2058 2 58 LGR	52 - 58	600	50	0.832	1196588

PP Polypropylene

Clamp clips allows both cables and pipes to be fastened to profile rails. The clamp clips are hooked into the appropriate slot widths of the profile rails and the component to be fastened is pressed onto the profile rail with the pressure trough of the clamp clip and held in place.



Double trough, metal



Type	Clamping range D mm	Shipping box pcs	Weight		Item No.
			Pack. pcs	kg/100 pcs.	
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

SI Steel

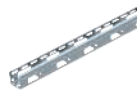
FT Hot-dip galvanised

Clamp clips allows both cables and pipes to be fastened to profile rails. The clamp clips are hooked into the appropriate slot widths of the profile rails and the component to be fastened is pressed onto the profile rail with the pressure trough of the clamp clip and held in place.





Luminaire support systems



Luminaire support channel

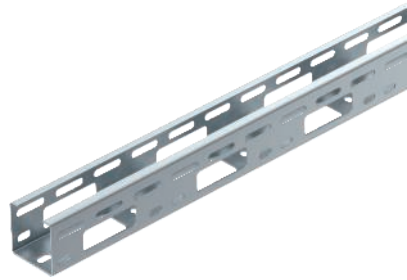
414



Luminaire support tray

418

Luminaire support channel



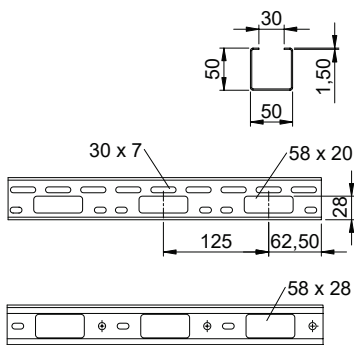
Type	Plate		Pack.	Weight	Item No.
	Width	thickness			
	mm	mm	m	kg/100 m	
LTS 50 FS	50	1.50	6	135.700	6075000
LTS 50 FT	50	1.50	6	149.500	6075005

St Steel

FS Strip-galvanised FT Hot-dip galvanised

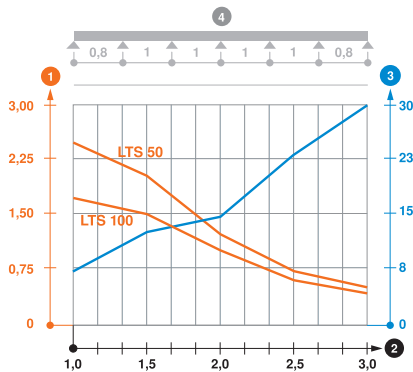
Perforated luminaire support channel for cable routing and luminaire mounting.

Dimensions



Type	Length	Width	Useful cross-section
LTS 50 FS	6000	50	22

Load

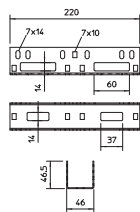
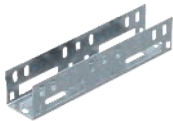


Type	1.0 m	1.5 m	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
LTS 50 FS	2.5	2	1.2	0.7	0.5

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.	Weight		Item No.
		pcs	kg/100 pcs.	
VF AZK 50 FS	25	25	27.100	6066615
VF AZK 50 DD	25	25	27.100	6066623

St Steel

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.

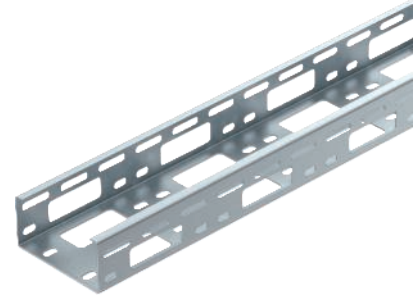
Luminaire support channel

Type	Plate		Pack. m	Weight		Item No.
	Width mm	thickness mm		m	kg/100 m	
LTS 100 FS	100	1.50	6	177.000	6075024	

St Steel

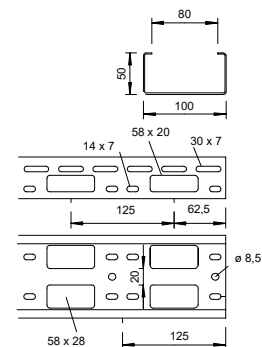
FS Strip-galvanised

Perforated luminaire support channel for cable routing and luminaire mounting.



Type	Length mm	Width mm	Useful
			cross-section cm ²
LTS 100 FS	6000	100	46

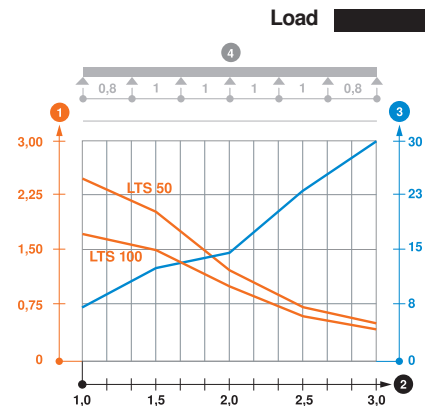
Dimensions



Type	1.0 m	1.5 m	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/m	kN/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



Straight and angle connector

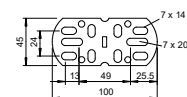
Type	Pack. pcs	Weight		Item No.
		kg/100 pcs	pcs.	
VF AZK FT	25	7.656	6066550	

St Steel

FT Hot-dip galvanised

An adjustable connector can be created using two straight and angle connectors. Scope of delivery including bolts with combination nuts.

Straight and angle connector for connection of AZ channels.



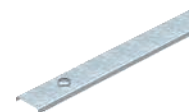
Cover with turn buckle

Type	Width mm	Length mm	Pack. m	Weight		Item No.
				m	kg/100 m	
AZDMD 50 FS	53	3000	3	55.000	6080138	
AZDMD 100 FS	103	3000	3	96.700	6080227	
AZDMD 50 DD	53	3000	3	58.340	6080154	
AZDMD 100 DD	103	3000	3	101.700	6080235	

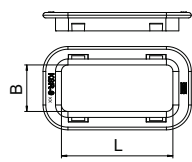
St Steel

FS Strip-galvanised **DD** Strip galvanised zinc/aluminium, double dip

Cover with turn buckle for AZ channel.



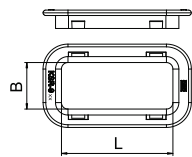
Cable protection ring



Type	Colour	for perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-910 PE	Light grey	20 x 58	25	0.415	6066712
PE Polyethylene					

Cable protection ring for bottom perforation in cable trays of type IKS and for side perforation in AZ channels and luminaire support channel.

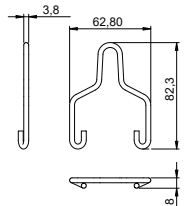
Cable protection ring



Type	Colour	for perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-915 PE	Light grey	28 x 58	25	0.471	6066704
PE Polyethylene					

Cable protection ring for bottom perforations in AZ channels and luminaire support channels.

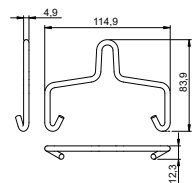
Suspension bracket



Type	F in kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AHB 50 D4 FT	0.35	50	1.985	6066505
SI Steel				
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.

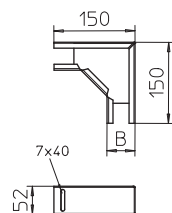
Suspension bracket



Type	F in kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AHB 100 D5 FT	0.6	50	4.060	6066510
SI Steel				
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.

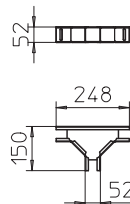
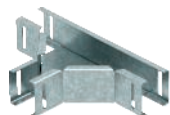
90° bend



Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LTS B DD	50	50	1	36.600	6074901
SI Steel					
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	47.800	6074912
SI Steel					
DD Strip galvanised zinc/aluminium, double dip					

Horizontal tee, for AZ channel AZK 050 and luminaire support channel LTS 50.

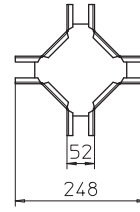
Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LTS K DD	50	50	1	58.400	6074921

St Steel

DD Strip galvanised zinc/aluminium,double dip

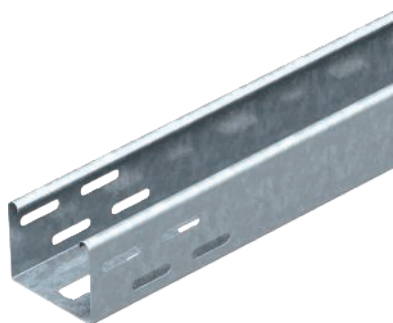
Cross-over, horizontal, for AZ channel AZK 050 and luminaire support channel LTS 50.

Cross-over



Luminaire support tray

Luminaire support tray



Type	Plate		Pack.	Weight	Item No.
	Width	thickness			
LTR 3000 FS	75	0.75	3	125.700	6055810
LTR 6000 FS	75	0.75	6	125.700	6055812

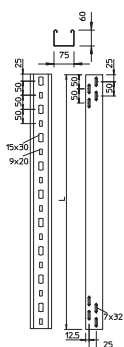
SI Steel

FS Strip-galvanised

The white version is a visible surface coating.

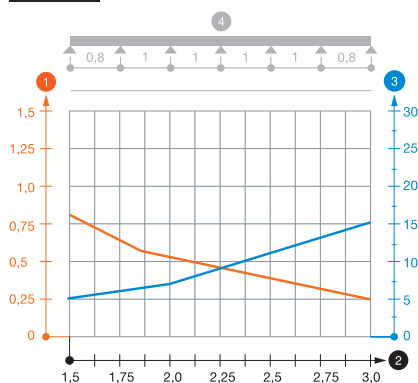
Luminaire support tray with perforated base for fastening luminaires and cable penetration.

Dimensions



Type	Length	Width	Useful cross-section
LTR 3000 FS	3000	75	42
LTR 6000 FS	6000	75	42

Load



Type	1.5 m	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/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

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

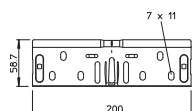
3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Straight connector set



Type	Side height	Width	Pack.	Weight	Item No.
RV 607 FS	60	75	10	18.800	6068150

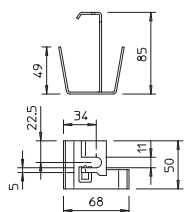
SI Steel

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.

Central suspension



Type	For width	For threaded rod	Pack.	Weight	Item No.
MAH LTR FS	75	M10	25	12.000	6358810

SI Steel

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

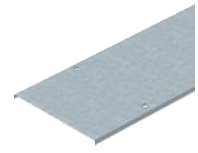
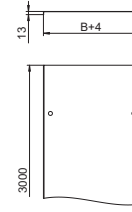
Type	Dimension B mm	Plate thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
DRL 075 FS	75	1.00	3000	3	83.340	6052029

St Steel

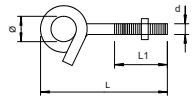
FS Strip-galvanised

Transverse bead from 500 mm width.

Cover for cable trays and cable ladders with turn buckles.



Ceiling hook



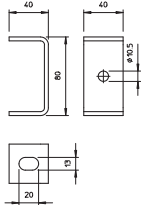
Type	Thread	Dimension d mm	Dimension L mm	Dimension L1 mm	Dimension d Ø mm	Breaking load kN	Pack. pcs.	Weight kg/100 pcs.	Item No.
948 TG6	M6	6	70	46	13	1	25	5.000	3453820

St Steel

G Electrogalvanised

Tightly wound ceiling hook. Including two large washers and nuts.

Ceiling bracket



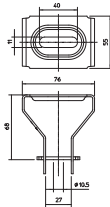
Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
DB FT	20	16.000	6356109

St Steel

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

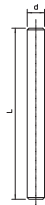
St Steel

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



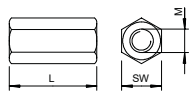
Type	Thread	Dimension d mm	Dimension L mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
TR M8 1M G	M8	8	1000	10	30.000	3141128
TR M10 1M G	M10	10	1000	10	49.000	3141209
TR M12 1M G	M12	12	1000	10	62.000	3141306
TR M8 2M G	M8	8	2000	10	60.000	3141136
TR M10 2M G	M10	10	2000	10	98.000	3141140
TR M12 2M G	M12	12	2000	10	140.000	3141144

St Steel

G Electrogalvanised

Threaded rod to DIN 976.

Connection sleeve



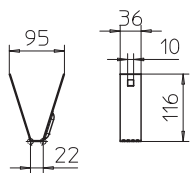
Type	Thread	Dimension L mm	SW mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
CSTR M8 G	M8	30	13	50	2.000	6410081
CSTR M10 G	M10	40	17	50	6.000	6410103
CSTR M12 G	M12	40	19	25	7.000	6410111

St Steel

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

FS Strip-galvanised

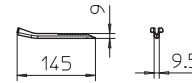
Important: Observe the statics of the trapezoidal metal ceiling.

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	3.100	6357536

- St** Steel
- FS** Strip-galvanised

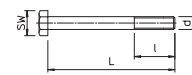


Important: Observe the statics of the trapezoidal metal ceiling.
Splint for fastening and securing the ceiling bracket to trapezoidal ceilings.

Hexagonal bolt

Type	Dimension mm	Dimension L mm	Dimension I mm	Dimension d mm	SW mm	Pack. pcs	Weight kg/100 pcs	Item No.
SKS 10x110 G	M10x110	110	30	10	17	20	9.500	6418244

- St** Steel
- G** Electrogalvanised



Hexagonal bolt with washers and hexagonal nut.

Suspension chain

Type	Material thickness mm	Breaking load kN	Pack. m	Weight kg/100 m	Item No.
LTK-K 10 G	2.6	0.9	10	19.000	6050360
LTK-K 25 G	2.6	0.9	25	19.000	6050370

- St** Steel
- 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
- G** Electrogalvanised

Quick link for connecting the chain, type LTK.

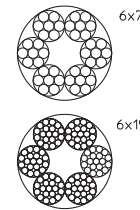


Steel wire tensioning rope

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
- 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.

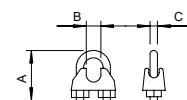


Wire cable clamp

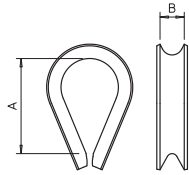
Type	For rope-Ø mm	Dimension A mm	Dimension B mm	Dimension C mm	Pack. pcs	Weight kg/100 pcs	Item No.
947 3 G	3	20	4	4	25	1.100	5302021

- St** Steel
- G** Electrogalvanised

Wire cable clamp for fastening steel wire tensioning ropes.



Cable eye stiffener



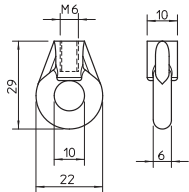
Type	For rope-Ø mm	Dimension A mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
946 3 G	3	23.5	3.5	25	0.210	5301033

St Steel

G Electrogalvanised

Cable eye stiffener to DIN 65457.

Ring eyelet



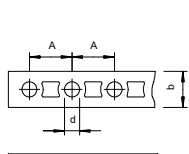
Type	Thread	Dimension D mm	Dimension d Ø mm	Dimension L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2084 K M6	M6	22	10	29	100	1.500	3463060

Zn Die-cast zinc

G Electrogalvanised

Ring eyelet with metric internal thread.

Perforated steel strap



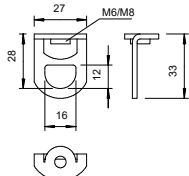
Type	Dimension mm	Dimension d mm	Dimension A mm	Dimension per roll m	Pack. pcs	Weight kg/100 pcs.	Item No.
5055 I12 FS	12 x 1	5.2	14.4	10	1	73.000	1470124
5055 II17 FS	17 x 1	6.5	20	10	1	106.000	1470175
5055 III26 FS	26 x 1,2	8.5	25	10	1	204.500	1470264
5055 LI12 FS	12 x 0,75	5.2	14.4	10	1	59.000	1471120
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

FS Strip-galvanised

Perforated steel strap, in practical uncoiling box.

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

G Electrogalvanised

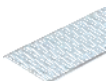
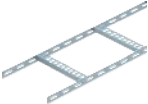

Suspension eyelet with interior thread.



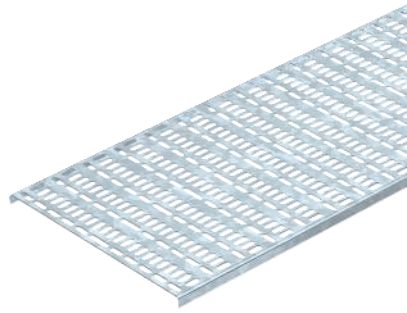


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Marine systems

	Cable tray systems	426
	Cable ladder systems	431
	Tightening strap	468
	Mounting systems	470

Cable tray, marine standard



Type	Width mm	Plate thickness mm	Pack. Weight		Item No.
			m	kg/100 m	
MKR 15 050 FS	50	1.00	2	49.000	6045952
MKR 15 075 FS	75	1.00	2	64.000	6045960
MKR 15 100 FS	100	1.00	2	76.000	6045979
MKR 15 150 FS	150	1.00	2	104.000	6045995
MKR 15 200 FS	200	1.00	2	131.000	6046002

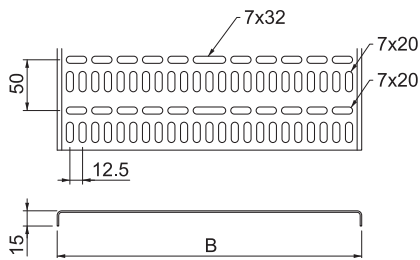
St Steel

FS Strip-galvanised

The cable track 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.

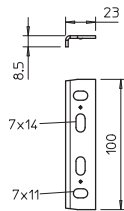
Cable tray according to marine standard.

Dimensions



Type	Length mm	Dimen- sion B mm	Side height mm
MKR 15 075 FS	2000	75	15
MKR 15 100 FS	2000	100	15
MKR 15 150 FS	2000	150	15
MKR 15 200 FS	2000	200	15

Screw connector



Type	Pack. pcs	Weight		Item No.
		kg/100	pcs.	
MKR SV FS	25	4.900		6066242

St Steel

FS Strip-galvanised

Straight connector for straight connection of cable trays, according to the marine standard, with a side height of 15 mm.

Cable tray, marine standard

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKR 15 050 FS	50	1.25	2	61.500	6046370
MKR 15 075 FS	75	1.25	2	78.500	6046372
MKR 15 100 FS	100	1.25	2	97.000	6046374
MKR 15 125 FS	125	1.25	2	113.400	6046375
MKR 15 150 FS	150	1.50	2	135.500	6046376
MKR 15 200 FS	200	1.50	2	194.500	6046004
MKR 15 250 FS	250	1.50	2	235.250	6046379
MKR 15 300 FS	300	1.50	2	275.000	6046029
MKR 15 400 FS	400	1.50	2	357.000	6046037
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	1.50	2	162.500	6045154
MKR 15 200 FT	200	1.50	2	205.500	6045200
MKR 15 250 FT	250	1.50	2	253.000	6045251
MKR 15 300 FT	300	1.50	2	292.700	6045308

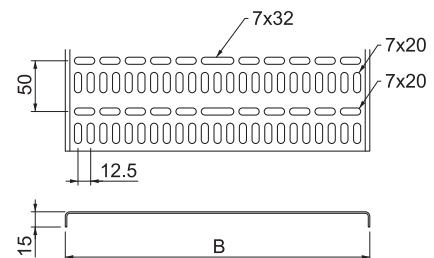
St Steel

FS Strip-galvanised FT Hot-dip galvanised

Cable tray according to marine standard.

Type	Length mm	Dimen- sion B mm	Side height mm
MKR 15 050 FS	2000	50	15
MKR 15 075 FS	2000	75	15
MKR 15 100 FS	2000	100	15
MKR 15 125 FS	2000	125	15
MKR 15 150 FS	2000	150	15
MKR 15 200 FS	2000	200	15
MKR 15 250 FS	2000	250	15
MKR 15 300 FS	2000	300	15
MKR 15 400 FS	2000	—	15

Dimensions



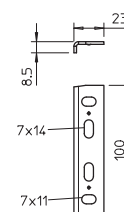
Screw connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
MKR SV FS	25	4.900	6066242
MKR SV FT	25	5.000	6066240

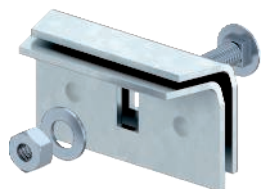
St Steel

FS Strip-galvanised FT Hot-dip galvanised

Straight connector for straight connection of cable trays, according to the marine standard, with a side height of 15 mm.



Clamp connector



Type

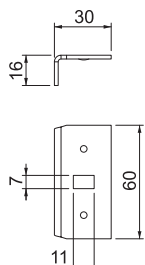
MKR KV FT

St Steel

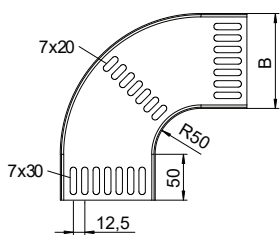
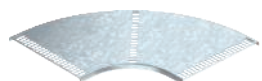
FT Hot-dip galvanised

Clamp connector for straight connection of cable trays, according to the marine standard, with a side height of 15 mm.

Pack. pcs.	Weight kg/100 pcs.		Item No.
	pcs.	pcs.	
25	8.800		6066143



90° bend



Type	Width mm	Plate thickness mm	Pack. pcs.	Weight kg/100 pcs.		Item No.
				pcs.	pcs.	
MKRB 90 15 050FS	51	1.25	1	14.600		7061146
MKRB 90 15 075FS	76	1.25	1	22.500		7061050
MKRB 90 15 100FS	101	1.25	1	28.400		7061244
MKRB 90 15 125FS	126	1.25	1	56.500		7061252
MKRB 90 15 150FS	151	1.50	1	73.300		7061360
MKRB 90 15 200FS	201	1.50	1	102.400		7061449
MKRB 90 15 250FS	252	1.50	1	163.800		7061546
MKRB 90 15 300FS	302	1.50	1	206.000		7061643

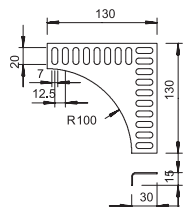
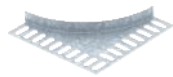
MKRB 90 15 050FT	51	1.25	1	16.000		7061145
MKRB 90 15 075FT	76	1.25	1	23.500		7061048
MKRB 90 15 100FT	101	1.25	1	31.090		7061242
MKRB 90 15 125FT	125	1.25	1	61.000		7061250
MKRB 90 15 200FT	201	1.50	1	110.600		7061447
MKRB 90 15 250FT	252	1.50	1	176.900		7061544
MKRB 90 15 300FT	302	1.50	1	222.480		7061641

St Steel

FS Strip-galvanised **FT** Hot-dip galvanised

Bend for plug mounting.

Corner connector



Type

MKR EV FT

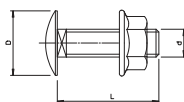
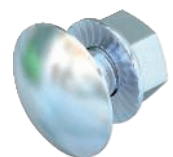
St Steel

FT Hot-dip galvanised

Corner connector for marine cable trays according to the marine standard with side height of 15 mm.

Pack. pcs.	Weight kg/100 pcs.		Item No.
	pcs.	pcs.	
1	9.330		7060041

Truss-head bolt with flange nut



Type

FRSB 6x12 F

St Steel

F Hot-dip galvanised

Truss-head bolt with square neck including flange nut.

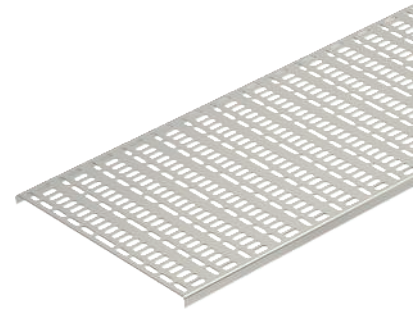
Pack. pcs.	Weight kg/100 pcs.		Item No.
	pcs.	pcs.	
100	0.990		6406122

Cable tray, marine standard

Type	Width mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
MKR 15 050 A2	50	1.25	2	61.250	6045830
MKR 15 075 A2	75	1.25	2	80.000	6045832
MKR 15 100 A2	100	1.25	2	95.000	6045834
MKR 15 125 A2	125	1.25	2	113.400	6045836
MKR 15 150 A2	150	1.50	2	156.000	6045838
MKR 15 200 A2	200	1.50	2	196.500	6045840
MKR 15 250 A2	250	1.50	2	235.250	6045842
MKR 15 300 A2	300	1.50	2	275.000	6045844
MKR 15 050 A4	50	1.25	2	49.000	6045850
MKR 15 075 A4	75	1.25	2	64.000	6045852
MKR 15 100 A4	100	1.25	2	76.000	6045854
MKR 15 125 A4	125	1.25	2	90.700	6045856
MKR 15 150 A4	150	1.50	2	156.000	6045858
MKR 15 200 A4	200	1.50	2	196.500	6045860
MKR 15 250 A4	250	1.50	2	235.250	6045862
MKR 15 300 A4	300	1.50	2	275.000	6045864

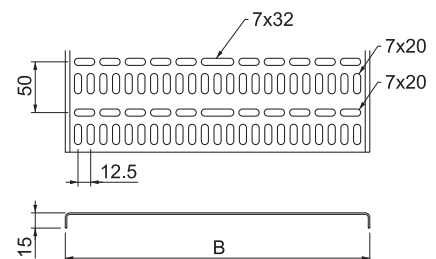
V2A Stainless steel, A2 V4A Stainless steel, A4

Cable tray according to marine standard.



Dimensions

Type	Length mm	Dimen- sion B mm	Side height mm
MKR 15 050 A2	2000	50	15
MKR 15 075 A2	2000	75	15
MKR 15 100 A2	2000	100	15
MKR 15 125 A2	2000	125	15
MKR 15 150 A2	2000	150	15
MKR 15 200 A2	2000	200	15
MKR 15 250 A2	2000	250	15
MKR 15 300 A2	2000	300	15

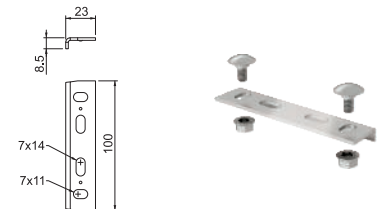


Screw connector

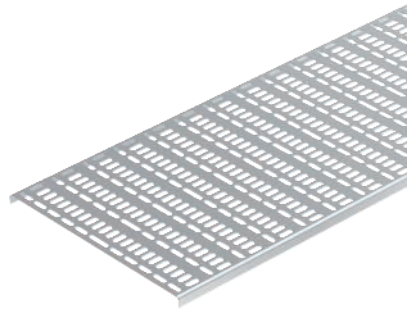
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
MKR SV A2	25	5.485	6066244
MKR SV A4	25	5.485	6066246

V2A Stainless steel, A2 V4A Stainless steel, A4

Straight connector for marine cable tray with a side height of 15 mm.



Cable tray, marine standard

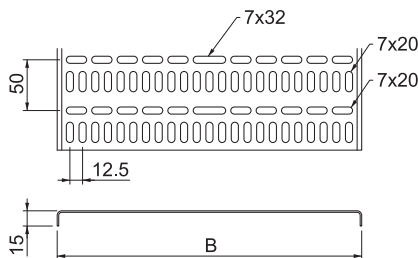


Type	Width mm	Plate thickness mm	Pack. Weight		Item No.
			m	kg/100 m	
MKR 15 050 ALU	50	1.50	2	25.500	6045707
MKR 15 075 ALU	75	1.50	2	33.000	6045715
MKR 15 100 ALU	100	1.50	2	39.500	6045723
MKR 15 125 ALU	125	1.50	2	46.800	6045731
MKR 15 150 ALU	150	1.50	2	70.500	6045758
MKR 15 200 ALU	200	2.00	2	89.500	6045766
MKR 15 250 ALU	250	2.00	2	107.900	6045774
MKR 15 300 ALU	300	2.00	2	126.500	6045782

Alu Aluminium

Cable tray according to marine standard.

Dimensions



Type	Length mm	Dimen- sion B mm	Side height mm
MKR 15 075 ALU	2000	75	15
MKR 15 100 ALU	2000	100	15
MKR 15 125 ALU	2000	125	15
MKR 15 150 ALU	2000	150	15
MKR 15 200 ALU	2000	200	15
MKR 15 250 ALU	2000	250	15
MKR 15 300 ALU	2000	300	15

Screw connector

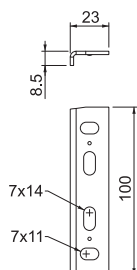


Type
MKR SV ALU

Alu Aluminium

Straight connector for marine cable tray with a side height of 15 mm.

Type	Pack. pcs	Weight		Item No.
		kg/100	pcs.	
MKR SV ALU	25	2.910	6066248	



Cable ladder, light duty



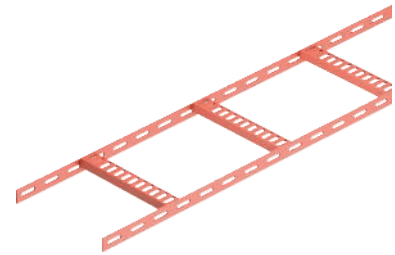
Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SL 42 075 SG	75	3	2	109.000	7097026
SL 42 100 SG	100	3	2	112.500	7097034
SL 42 150 SG	150	3	2	119.000	7097042
SL 42 200 SG	200	3	2	125.500	7097050
SL 42 250 SG	250	3	2	132.000	7097069
SL 42 300 SG	300	3	2	139.000	7097077

Sl Steel

SG Pre-treated for welding

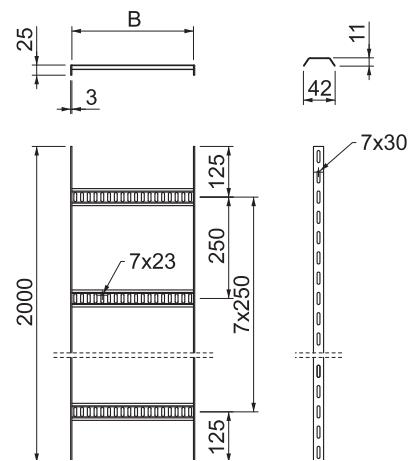
The shipping cable ladder, including fittings, is also available in stainless steel on request. Powder coating according to RAL colours possible.

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. Welding primer type SIGMA-WELD 199, also available in white.

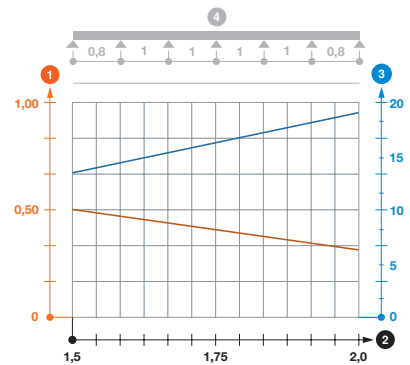


Type	Length mm	Dimen- sion B mm	Side height mm	Rail thickness mm
SL 42 075 SG	2000	81	25	3
SL 42 100 SG	2000	106	25	3
SL 42 150 SG	2000	156	25	3
SL 42 200 SG	2000	206	25	3
SL 42 250 SG	2000	256	25	3
SL 42 300 SG	2000	306	25	3

Dimensions



Load

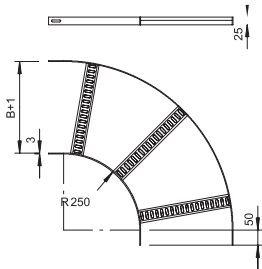


Type	1.5 m kN/m	2.0 m kN/m
SL 42 075 SG	0.5	0.36
SL 42 100 SG	0.5	0.36
SL 42 150 SG	0.5	0.36
SL 42 200 SG	0.5	0.36
SL 42 250 SG	0.5	0.36
SL 42 300 SG	0.5	0.36

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

90° bend



Type	Rail		Pack. pcs	Weight		Item No.
	Width mm	thickness mm		kg/100 pcs.		
SLB 90 42 075 SG	75	3	1	70.600		7098500
SLB 90 42 100 SG	100	3	1	75.800		7098502
SLB 90 42 150 SG	150	3	1	85.400		7098510
SLB 90 42 200 SG	200	3	1	95.000		7098529
SLB 90 42 250 SG	250	3	1	104.600		7098537
SLB 90 42 300 SG	300	3	1	114.300		7098545

Sl Steel

SG Pre-treated for welding

Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipping cable ladder, type SL 42, with side height of 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.

Cable ladder, light-duty



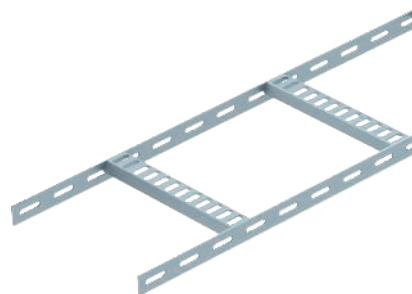
Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SL 42 075 FT	75	3	2	114.000	7097115
SL 42 100 FT	100	3	2	118.000	7097123
SL 42 150 FT	150	3	2	125.000	7097131
SL 42 200 FT	200	3	2	132.500	7097158
SL 42 250 FT	250	3	2	140.000	7097166
SL 42 300 FT	300	3	2	147.500	7097174

Sl Steel

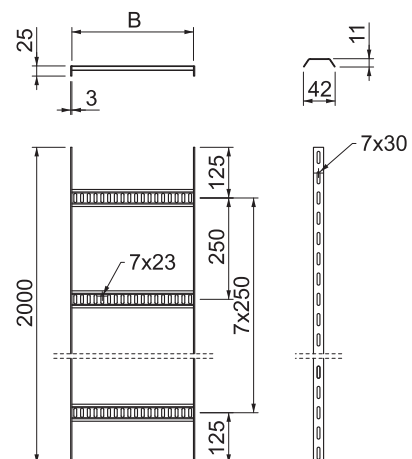
FT Hot-dip galvanised

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.

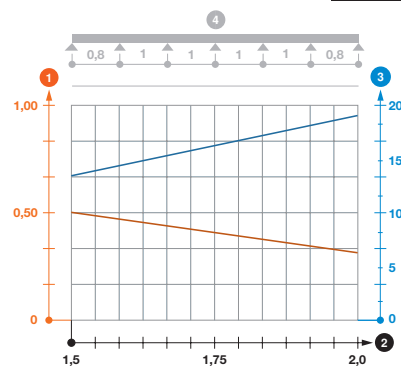
Type	Length mm	Dimen- sion B mm	Side height mm	Rail thickness mm
SL 42 075 FT	2000	81	25	3
SL 42 100 FT	2000	106	25	3
SL 42 150 FT	2000	156	25	3
SL 42 200 FT	2000	206	25	3
SL 42 250 FT	2000	256	25	3
SL 42 300 FT	2000	306	25	3



Dimensions



Load

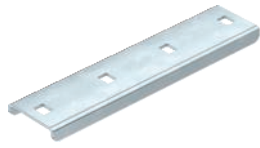


Type	1.5 m kN/m	2.0 m kN/m
SL 42 075 FT	0.5	0.36
SL 42 100 FT	0.5	0.36
SL 42 150 FT	0.5	0.36
SL 42 200 FT	0.5	0.36
SL 42 250 FT	0.5	0.36
SL 42 300 FT	0.5	0.36

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

Connector

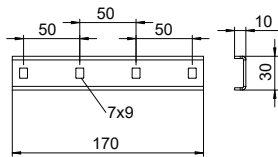


Type
SLV 42 FT

Sl Steel
FT Hot-dip galvanised

Pack.	Weight		Item No.
	pcs	kg/100 pcs.	
20	11.900		7103540

Straight connector as external connector to connect cable ladders and fittings with a side height of 25 mm.



90° bend

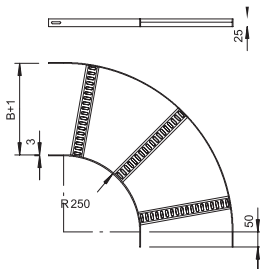


Type	Width mm	Rail thickness mm	Pack. pcs	Weight		Item No.
				kg/100 pcs.		
SLB 90 42 075 FT	75	3	1	73.800		7098614
SLB 90 42 100 FT	100	3	1	80.000		7098618
SLB 90 42 150 FT	150	3	1	88.900		7098626
SLB 90 42 200 FT	200	3	1	101.000		7098634
SLB 90 42 250 FT	250	3	1	111.000		7098642
SLB 90 42 300 FT	300	3	1	121.000		7098650

Sl Steel
FT Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipping cable ladder, type SL 42, with side height of 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



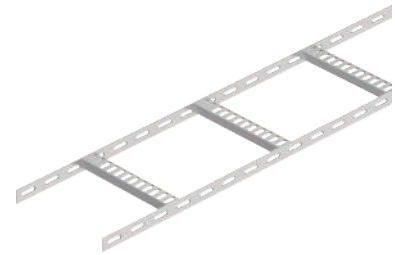
Cable ladder, light-duty

Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SL 42 075 A2	75	3	2	109.000	7097080
SL 42 100 A2	100	3	2	112.500	7097082
SL 42 150 A2	150	3	2	119.000	7097084
SL 42 200 A2	200	3	2	125.500	7097086
SL 42 250 A2	250	3	2	132.000	7097088
SL 42 300 A2	300	3	2	139.000	7097090

V2A Stainless steel, A2

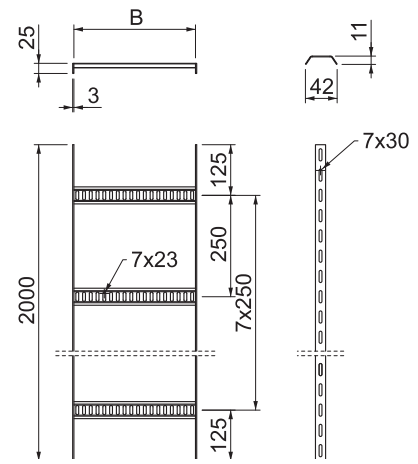
GB Stained

Shipping 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.



Type	Length mm	Dimen- sion B mm	Side height mm	Rail thickness mm
SL 42 075 A2	2000	81	25	3
SL 42 100 A2	2000	106	25	3
SL 42 150 A2	2000	156	25	3
SL 42 200 A2	2000	206	25	3
SL 42 250 A2	2000	256	25	3
SL 42 300 A2	2000	306	25	3

Dimensions

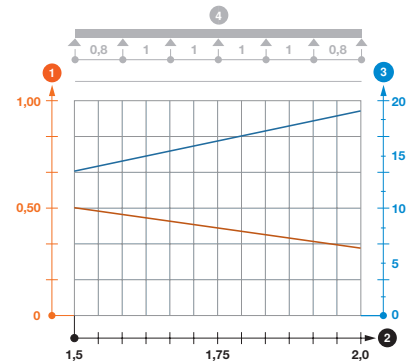


Load

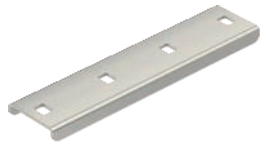
Type	1.5 m kN/m	2.0 m kN/m
SL 42 075 A2	0.5	0.36
SL 42 100 A2	0.5	0.36
SL 42 150 A2	0.5	0.36
SL 42 200 A2	0.5	0.36
SL 42 250 A2	0.5	0.36
SL 42 300 A2	0.5	0.36

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



Connector



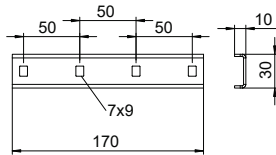
Type

SLV 42 A4

V4A Stainless steel, A4

Straight connector as external connector to connect cable ladders and fittings with a side height of 25 mm.

Pack.	Weight		Item No.
	kg/100		
20	11.300		7103560



90° bend



Type

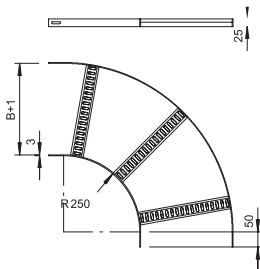
Type	Rail		Pack.	Weight		Item No.
	Width	thickness		kg/100		
	mm	mm	pcs	pcs.		
SLB 90 42 075 A2	75	3	1	71.600		7098654
SLB 90 42 100 A2	100	3	1	76.400		7098656
SLB 90 42 150 A2	150	3	1	85.800		7098658
SLB 90 42 200 A2	200	3	1	95.400		7098660
SLB 90 42 250 A2	250	3	1	105.000		7098662
SLB 90 42 300 A2	300	3	1	114.300		7098664

V2A Stainless steel, A2

GB Stained

Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipping cable ladder, type SL 42, with side height of 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



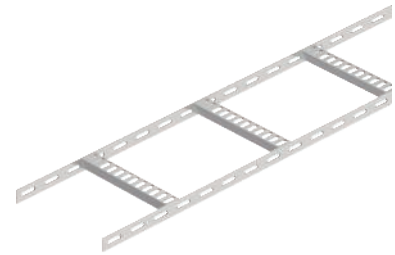
Cable ladder, light-duty

Type	Rail		Pack. m	Weight		Item No.
	Width mm	thickness mm		kg/100 m		
SL 42 075 A4	75	3	2	110.850		7099702
SL 42 100 A4	100	3	2	114.500		7099704
SL 42 150 A4	150	3	2	120.900		7099706
SL 42 200 A4	200	3	2	127.600		7099708
SL 42 250 A4	250	3	2	134.300		7099710
SL 42 300 A4	300	3	2	140.800		7099712

V4A Stainless steel, A4

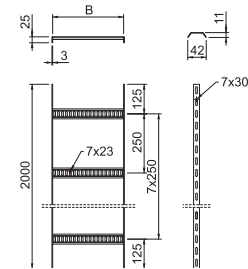
GB Stained

Shipping 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.

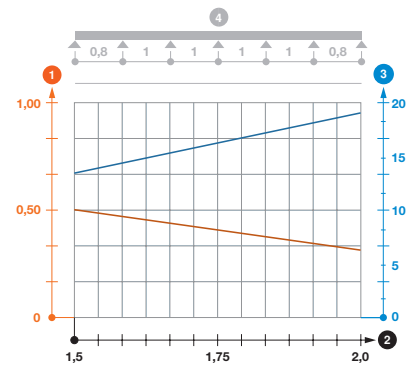


Type	Length mm	Dimension B mm	Side height mm	Rail thickness	
				mm	mm
SL 42 075 A4	2000	81	25	3	
SL 42 100 A4	2000	106	25	3	
SL 42 150 A4	2000	156	25	3	
SL 42 200 A4	2000	206	25	3	
SL 42 250 A4	2000	256	25	3	
SL 42 300 A4	2000	306	25	3	

Dimensions



Load



Type	1.5 m	2.0 m
	kN/m	kN/m
SL 42 075 A4	0.5	0.36
SL 42 100 A4	0.5	0.36
SL 42 150 A4	0.5	0.36
SL 42 200 A4	0.5	0.36
SL 42 250 A4	0.5	0.36
SL 42 300 A4	0.5	0.36

Load diagram, cable ladder, light duty SL42

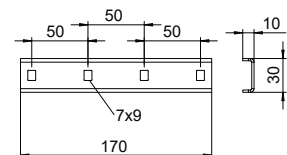
- 1 Permitted cable tray/ladder load in kN/m without man load
- 2 Support width in m
- 3 Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
- 4 Load scheme during testing

Connector

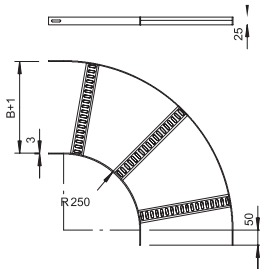
Type	Pack. pcs	Weight		Item No.
		kg/100	pcs.	
SLV 42 A4	20	11.300		7103560

V4A Stainless steel, A4

Straight connector as external connector to connect cable ladders and fittings with a side height of 25 mm.



90° bend



Type	Width mm	Rail thickness mm	Pack. pcs	Weight		Item No.
				kg/100	pcs.	
SLB 90 42 075 A4	75	3	1	71.600		7098670
SLB 90 42 100 A4	100	3	1	77.000		7098672
SLB 90 42 150 A4	150	3	1	87.000		7098674
SLB 90 42 200 A4	200	3	1	97.000		7098676
SLB 90 42 250 A4	250	3	1	107.000		7098678
SLB 90 42 300 A4	300	3	1	117.000		7098680

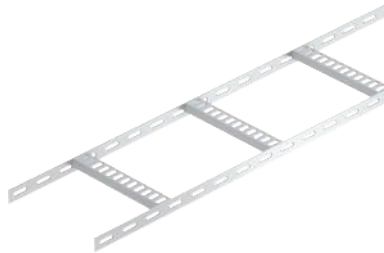
V4A Stainless steel, A4

GB Stained

Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipping cable ladder, type SL 42, with side height of 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.

Cable ladder, light-duty



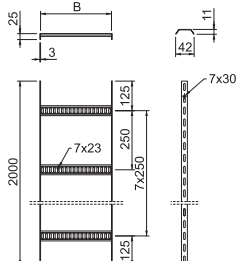
Type	Width mm	Rail thickness mm	Pack. m	Weight		Item No.
				kg/100 m		
SL 42 075 ALU	75	3	2	41.000		7099722
SL 42 100 ALU	100	3	2	43.000		7099724
SL 42 150 ALU	150	3	2	47.500		7099726
SL 42 200 ALU	200	3	2	52.500		7099728
SL 42 250 ALU	250	3	2	57.000		7099730
SL 42 300 ALU	300	3	2	61.500		7099732

Alu Aluminium

GB Stained

Marine cable ladder with perforated side rail of side height 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.

Dimensions



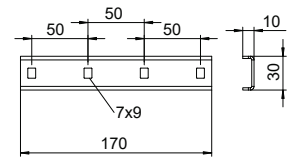
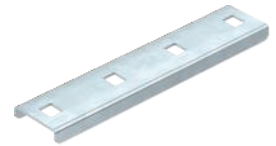
Type	Length mm	Dimen- sion B mm	Side height mm	Rail thickness mm
SL 42 100 ALU	2000	106	25	3
SL 42 150 ALU	2000	156	25	3
SL 42 200 ALU	2000	206	25	3
SL 42 250 ALU	2000	256	25	3
SL 42 300 ALU	2000	306	25	3

Connector

Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
SLV 42 ALU	20	4.951	7103552

Alu Aluminium

Straight connector as external connector to connect cable ladders and fittings with a side height of 25 mm.



90° bend

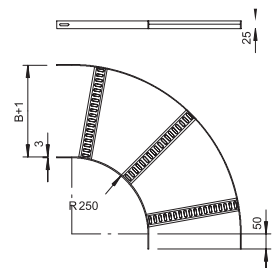
Type	Width mm	Rail thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
SLB 90 42 075ALU	75	3	1	27.000	7098684
SLB 90 42 100ALU	100	3	1	29.500	7098686
SLB 90 42 150ALU	150	3	1	34.500	7098688
SLB 90 42 200ALU	200	3	1	39.500	7098690
SLB 90 42 250ALU	250	3	1	44.500	7098692
SLB 90 42 300ALU	300	3	1	49.500	7098694

Alu Aluminium

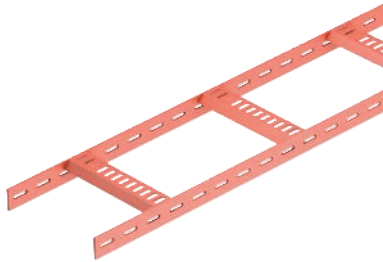
GB Stained

Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipping cable ladder, type SL 42, with side height of 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



Cable ladder, standard



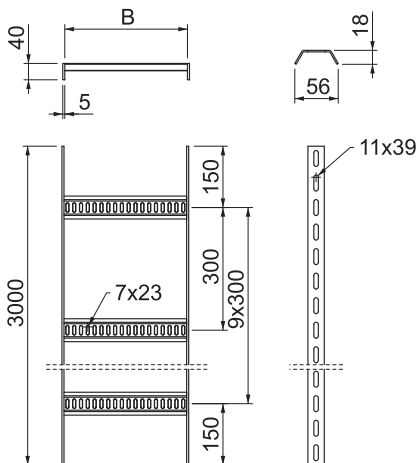
Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SL 62 100 SG	100	5	3	299.000	7097212
SL 62 150 SG	150	5	3	315.670	7097220
SL 62 200 SG	200	5	3	332.340	7097239
SL 62 300 SG	300	5	3	365.670	7097247
SL 62 400 SG	400	5	3	398.670	7097255
SL 62 500 SG	500	5	3	432.000	7097263
SL 62 600 SG	600	5	3	465.340	7097271

Sl Steel

SG Pre-treated for welding

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. Welding primer type SIGMA-WELD 199, also available in white.

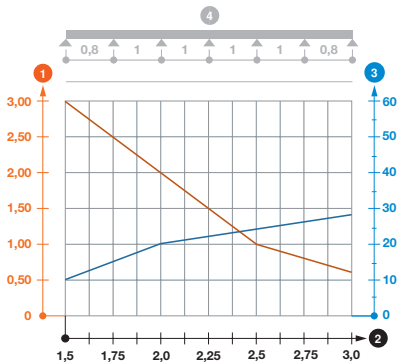
Dimensions



Length mm Dimen- sion B mm Side height mm Rail thickness mm

Type	Length mm	Dimen- sion B mm	Side height mm	Rail thickness mm
SL 62 100 SG	3000	110	40	5
SL 62 150 SG	3000	160	40	5
SL 62 200 SG	3000	210	40	5
SL 62 300 SG	3000	310	40	5
SL 62 400 SG	3000	410	40	5
SL 62 500 SG	3000	510	40	5
SL 62 600 SG	3000	610	40	5

Load



1.5 m 2.0 m 2.5 m 3.0 m
kN/m kN/m kN/m kN/m

Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SL 62 100 SG	3	2	1	0.6
SL 62 150 SG	3	2	1	0.6
SL 62 200 SG	3	2	1	0.6
SL 62 300 SG	3	2	1	0.6
SL 62 400 SG	3	2	1	0.6
SL 62 500 SG	3	2	1	0.6
SL 62 600 SG	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

90° bend

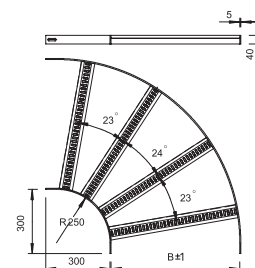
Type	Width mm	Rail thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SLB 90 62 100 SG	100	5	1	204.000	7098707
SLB 90 62 200 SG	200	5	1	258.400	7098723
SLB 90 62 300 SG	300	5	1	311.000	7098731
SLB 90 62 400 SG	400	5	1	363.000	7098758
SLB 90 62 500 SG	500	5	1	421.000	7098766
SLB 90 62 600 SG	600	5	1	475.000	7098774

Sl Steel

SG Pre-treated for welding

Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipping cable ladder, type SL 62, with side height of 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



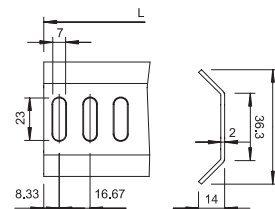
Rung, standard

Type	Length mm	Pack. m	Weight kg/100 m	Item No.
SLSP 62 300 SG	3000	3	98.870	7102674

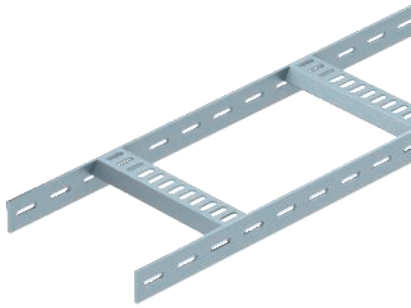
Sl Steel

SG Pre-treated for welding

Rung with 7x23 mm perforation. For welding in cable ladders, type SL 62, and for support constructions.



Cable ladder, standard



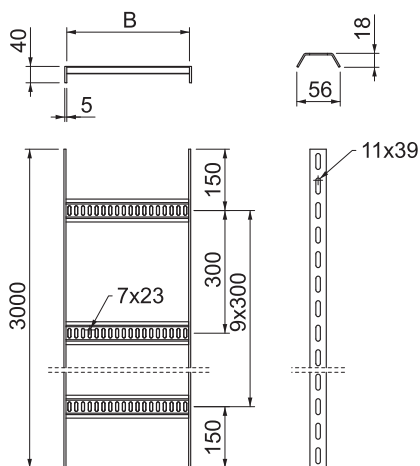
Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SL 62 100 FT	100	5	3	307.300	7097409
SL 62 150 FT	150	5	3	325.000	7097417
SL 62 200 FT	200	5	3	342.700	7097425
SL 62 300 FT	300	5	3	378.000	7097433
SL 62 400 FT	400	5	3	413.000	7097441
SL 62 500 FT	500	5	3	448.300	7097468
SL 62 600 FT	600	5	3	483.700	7097476

Sl Steel

FT Hot-dip galvanised

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.

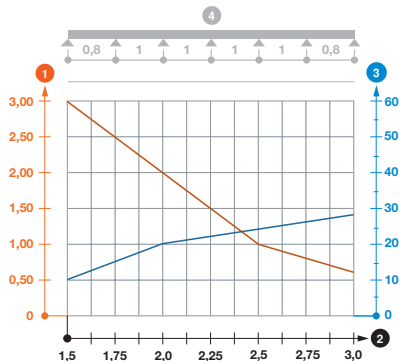
Dimensions



Dimen- Side Rail
Length sion B height thickness
mm mm mm mm

Type	Length mm	Dimension B mm	Side height mm	Rail thickness mm
SL 62 100 FT	3000	110	40	5
SL 62 150 FT	3000	160	40	5
SL 62 200 FT	3000	210	40	5
SL 62 300 FT	3000	310	40	5
SL 62 400 FT	3000	410	40	5
SL 62 500 FT	3000	510	40	5
SL 62 600 FT	3000	610	40	5

Load



Type 1.5 m 2.0 m 2.5 m 3.0 m
kN/m kN/m kN/m kN/m

Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SL 62 100 FT	3	2	1	0.6
SL 62 150 FT	3	2	1	0.6
SL 62 200 FT	3	2	1	0.6
SL 62 300 FT	3	2	1	0.6
SL 62 400 FT	3	2	1	0.6
SL 62 500 FT	3	2	1	0.6
SL 62 600 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

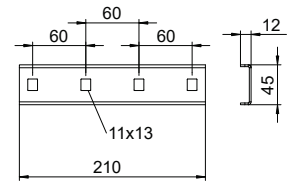
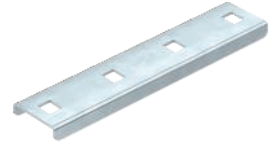
Connector



Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
SLV 62 FT	10	20.900	7103548

- Sl** Steel
- FT** Hot-dip galvanised

Straight connector as external connector to connect cable ladders and fittings with a side height of 40 mm.



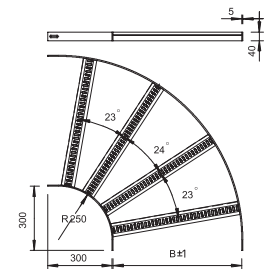
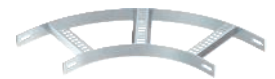
90° bend

Type	Width mm	Rail thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
SLB 90 62 100 FT	100	5	1	219.000	7098855
SLB 90 62 200 FT	200	5	1	278.000	7098871
SLB 90 62 300 FT	300	5	1	336.000	7098898
SLB 90 62 400 FT	400	5	1	372.000	7098901
SLB 90 62 500 FT	500	5	1	452.000	7098928
SLB 90 62 600 FT	600	5	1	511.000	7098936

- Sl** Steel
- FT** Hot-dip galvanised

Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipping cable ladder, type SL 62, with side height of 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction.

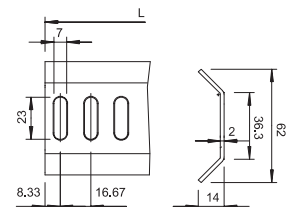
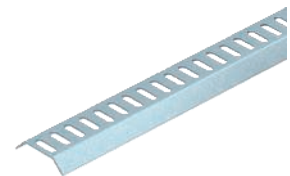


Rung, standard

Type	Length mm	Pack. m	Weight kg/100 m	Item No.
SLSP 62 300 FT	3000	3	104.800	7102771

- Sl** Steel
- FT** Hot-dip galvanised

Rung with 7x23 mm perforation. For welding in cable ladders, type SL 62, and for support constructions.



Cable ladder, standard



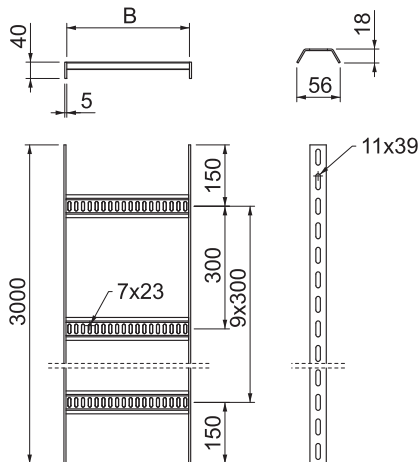
Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SL 62 200 A2	200	5	3	332.340	7097096
SL 62 300 A2	300	5	3	365.340	7097098
SL 62 400 A2	400	5	3	398.670	7097100
SL 62 500 A2	500	5	3	432.000	7097102
SL 62 600 A2	600	5	3	465.340	7097104

V2A Stainless steel, A2

GB Stained

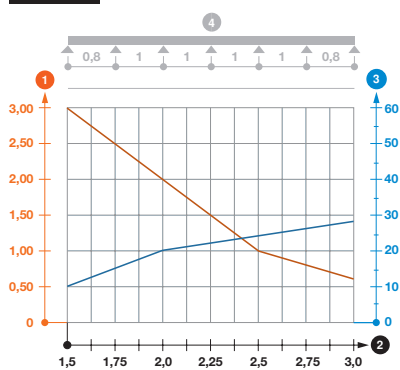
Shipping cable ladder with perforated side rail of side height 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction. Load tested according to IEC in conjunction with connector, type SLV.

Dimensions



Type	Length mm	Dimen- sion B mm	Side height mm	Rail thickness mm
SL 62 200 A2	3000	210	40	5
SL 62 300 A2	3000	310	40	5
SL 62 400 A2	3000	410	40	5
SL 62 500 A2	3000	510	40	5
SL 62 600 A2	3000	610	40	5

Load



Type	1.5 m 2.0 m 2.5 m 3.0 m			
	kN/m	kN/m	kN/m	kN/m
SL 62 100 A2	3	2	1	0.6
SL 62 200 A2	3	2	1	0.6
SL 62 300 A2	3	2	1	0.6
SL 62 400 A2	3	2	1	0.6
SL 62 500 A2	3	2	1	0.6
SL 62 600 A2	3	2	1	0.6

Load diagram, cable ladder SL62

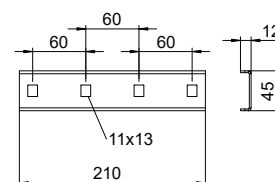
- 1 Permitted cable tray/ladder load in kN/m without man load
- 2 Support width in m
- 3 Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
- 4 Load scheme during testing

Connector

Type	Pack. pcs.	Weight kg/100 pcs.	Item No.

V4A Stainless steel, A4

Straight connector as external connector to connect cable ladders and fittings with a side height of 40 mm.



90° bend

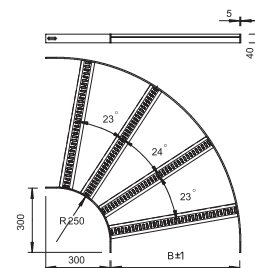
Type	Width mm	Rail thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
SLB 90 62 200 A2	200	5	1	261.700	7099152
SLB 90 62 300 A2	300	5	1	316.700	7099154
SLB 90 62 400 A2	400	5	1	371.600	7099156
SLB 90 62 500 A2	500	5	1	426.500	7099158
SLB 90 62 600 A2	600	5	1	481.400	7099160

V2A Stainless steel, A2

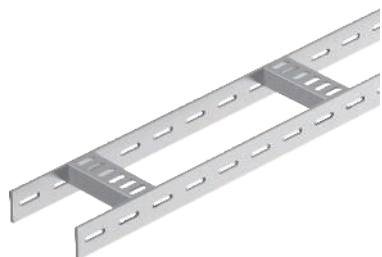
GB Stained

Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipping cable ladder, type SL 62, with side height of 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



Cable ladder, standard



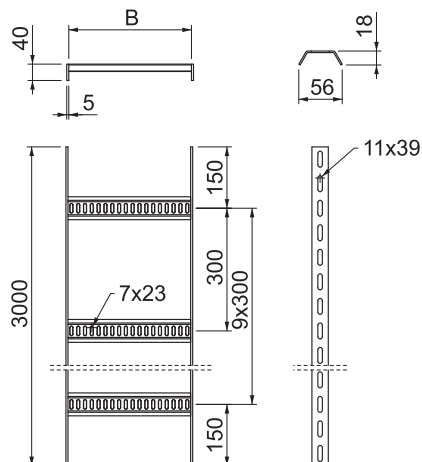
Type	Rail		Pack. m	Weight kg/100 m	Item No.
	Width mm	thickness mm			
SL 62 100 A4	100	5	3	299.000	7097358
SL 62 200 A4	200	5	3	332.340	7097360
SL 62 300 A4	300	5	3	365.340	7097362
SL 62 400 A4	400	5	3	398.670	7097364
SL 62 500 A4	500	5	3	432.000	7097366
SL 62 600 A4	600	5	3	465.340	7097368

V4A Stainless steel, A4

GB Stained

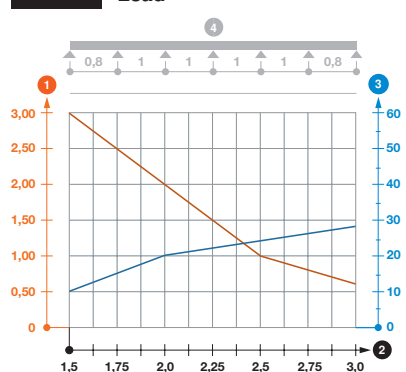
Shipping cable ladder with perforated side rail of side height 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction. Load tested according to IEC in conjunction with connector, type SLV.

Dimensions



Type	Length mm	Dimension B mm	Side height mm	Rail thickness mm	
				mm	mm
SL 62 100 A4	3000	110	40	5	5
SL 62 200 A4	3000	210	40	5	5
SL 62 300 A4	3000	310	40	5	5
SL 62 400 A4	3000	410	40	5	5
SL 62 500 A4	3000	510	40	5	5
SL 62 600 A4	3000	610	40	5	5

Load



Type	1.5 m	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/m	kN/m
SL 62 100 A4	3	2	1	0.6
SL 62 200 A4	3	2	1	0.6
SL 62 300 A4	3	2	1	0.6
SL 62 400 A4	3	2	1	0.6
SL 62 500 A4	3	2	1	0.6
SL 62 600 A4	3	2	1	0.6

Load diagram, cable ladder SL62

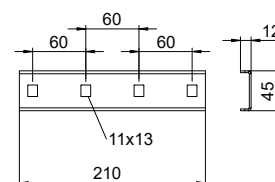
- 1 Permitted cable tray/ladder load in kN/m without man load
- 2 Support width in m
- 3 Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
- 4 Load scheme during testing

Connector

Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
SLV 62 A4	10	14.600	7103568

V4A Stainless steel, A4

Straight connector as external connector to connect cable ladders and fittings with a side height of 40 mm.



90° bend

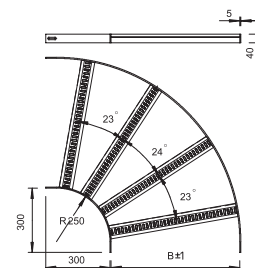
Type	Width mm	Rail thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
SLB 90 62 100 A4	100	5	1	209.000	7099168
SLB 90 62 200 A4	200	5	1	265.000	7099170
SLB 90 62 300 A4	300	5	1	321.000	7099172
SLB 90 62 400 A4	400	5	1	376.000	7099174
SLB 90 62 500 A4	500	5	1	432.000	7099176
SLB 90 62 600 A4	600	5	1	488.000	7099178

V4A Stainless steel, A4

GB Stained

Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipping cable ladder, type SL 62, with side height of 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



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Cable ladder, standard



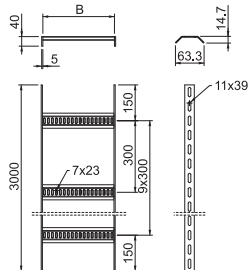
Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SL 62 200 ALU	200	5	3	111.070	7099754
SL 62 300 ALU	300	5	3	122.300	7099756
SL 62 400 ALU	400	5	3	133.570	7099758
SL 62 500 ALU	500	5	3	144.833	7099760
SL 62 600 ALU	600	5	3	156.100	7099762

Alu Aluminium

GB Stained

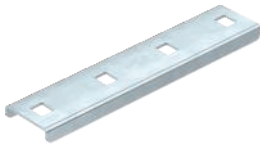
Marine cable ladder with perforated side rail of side height 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction.

Dimensions



Type	Length mm	Dimen- sion B mm	Side height mm	Rail thickness mm
SL 62 200 ALU	3000	210	40	5
SL 62 300 ALU	3000	310	40	5
SL 62 400 ALU	3000	410	40	5
SL 62 500 ALU	3000	510	40	5
SL 62 600 ALU	3000	610	40	5

Connector



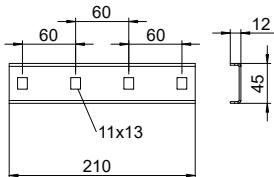
Type

SLV 62 ALU

Alu Aluminium

Straight connector as external connector to connect cable ladders and fittings with a side height of 40 mm.

Pack. pcs	Weight kg/100 pcs	Item No.



90° bend

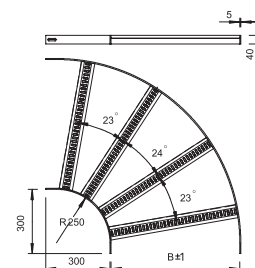
Type	Width mm	Rail thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SLB 90 62 100ALU	100	5	1	69.600	7099186
SLB 90 62 200ALU	200	5	1	88.100	7099188
SLB 90 62 300ALU	300	5	1	106.600	7099190
SLB 90 62 400ALU	400	5	1	125.100	7099192
SLB 90 62 500ALU	500	5	1	143.600	7099194
SLB 90 62 600ALU	600	5	1	162.100	7099196

Alu Aluminium

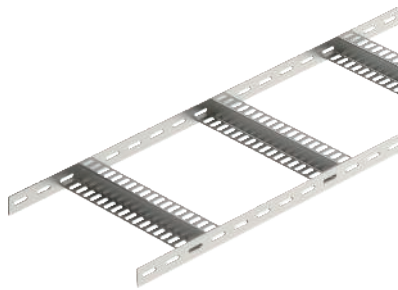
GB Stained

Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipping cable ladder, type SL 62, with side height of 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



Cable ladder with Z rung, light duty



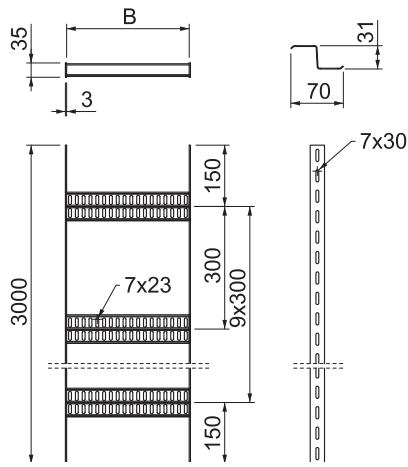
Type	Rail		Pack. m	Weight kg/100 m	Item No.
	Width mm	thickness mm			
SLZ L 100 A2	100	3	3	167.000	7098062
SLZ L 150 A2	150	3	3	177.340	7098064
SLZ L 200 A2	200	3	3	187.670	7098066
SLZ L 300 A2	300	3	3	208.670	7098068
SLZ L 400 A2	400	3	3	229.170	7098070
SLZ L 500 A2	500	3	3	250.000	7098072
SLZ L 600 A2	600	3	3	270.670	7098074

V2A Stainless steel, A2

GB Stained

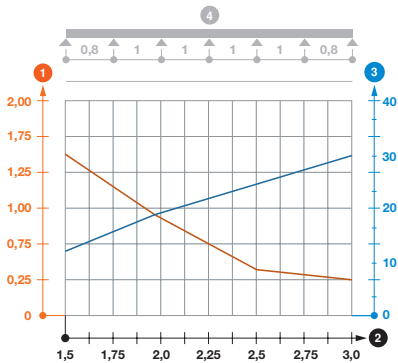
Marine cable ladder with perforated side rail of side height 35 mm with welded, perforated Z-rungs. Load tested according to IEC in conjunction with connector, type SLV.

Dimensions



Type	Length mm	Dimension B mm	Side height mm	Rail	
				height mm	thickness mm
SLZ L 100 A2	3000	106	35	3	3
SLZ L 150 A2	3000	156	35	3	3
SLZ L 200 A2	3000	206	35	3	3
SLZ L 300 A2	3000	306	35	3	3
SLZ L 400 A2	3000	406	35	3	3
SLZ L 500 A2	3000	506	35	3	3
SLZ L 600 A2	3000	606	35	3	3

Load



Type	1.5 m	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/m	kN/m
SLZ L 100 A2	1.5	0.85	0.35	0.25
SLZ L 150 A2	1.5	0.85	0.35	0.25
SLZ L 200 A2	1.5	0.85	0.35	0.25
SLZ L 300 A2	1.5	0.85	0.35	0.25
SLZ L 400 A2	1.5	0.85	0.35	0.25
SLZ L 500 A2	1.5	0.85	0.35	0.25
SLZ L 600 A2	1.5	0.85	0.35	0.25

Load diagram, cable ladder SLZ L

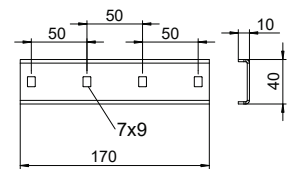
- 1 Permitted cable tray/ladder load in kN/m without man load
- 2 Support width in m
- 3 Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
- 4 Load scheme during testing

Connector

Type	Pack. pcs.	Weight		Item No.
		kg/100 pcs.	pcs.	
SLV 52 A4	10	14.000	7103564	

V4A Stainless steel, A4

Straight connector as external connector to connect cable ladders and fittings with a side height of 35 mm.



90° bend

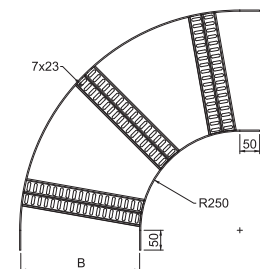
Type	Width mm	Rail thickness mm	Pack. pcs.	Weight		Item No.
				kg/100 pcs.	pcs.	
SLZB L 90 100 A2	100	3	1	113.000	7099241	
SLZB L 90 150 A2	150	3	1	129.000	7099242	
SLZB L 90 200 A2	200	3	1	145.000	7099243	
SLZB L 90 300 A2	300	3	1	176.000	7099245	
SLZB L 90 400 A2	400	3	1	208.000	7099247	
SLZB L 90 500 A2	500	3	1	240.000	7099249	
SLZB L 90 600 A2	600	3	1	272.000	7099251	

V2A Stainless steel, A2

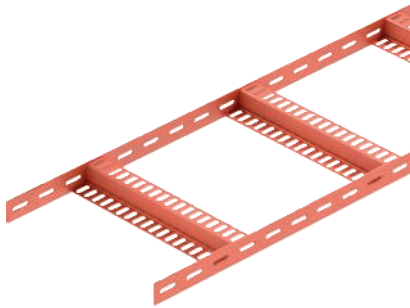
GB Stained

Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipping cable ladder, type SLZ L, with side height of 35 mm with welded, perforated Z rungs.



Cable ladder with Z rung, light duty



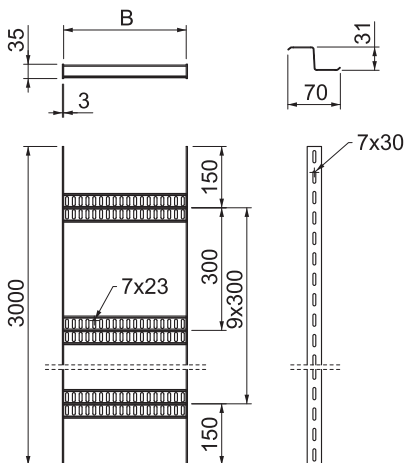
Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SLZ L 100 SG	100	3	3	167.000	7098032
SLZ L 150 SG	150	3	3	177.340	7098034
SLZ L 200 SG	200	3	3	187.670	7098036
SLZ L 300 SG	300	3	3	208.670	7098038
SLZ L 400 SG	400	3	3	229.340	7098040
SLZ L 500 SG	500	3	3	250.000	7098042
SLZ L 600 SG	600	3	3	270.670	7098044

Sl Steel

SG Pre-treated for welding

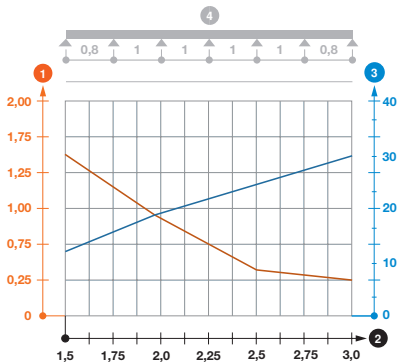
Marine cable ladder with perforated side rail of side height 35 mm with welded, perforated Z-rungs. Load tested according to IEC in conjunction with connector, type SLV. Welding primer type SIGMA-WELD 199, also available in white.

Dimensions



Type	Length mm	Dimen- sion B mm	Side height mm	Rail thickness mm
SLZ L 100 SG	3000	106	35	3
SLZ L 150 SG	3000	156	35	3
SLZ L 200 SG	3000	206	35	3
SLZ L 300 SG	3000	306	35	3
SLZ L 400 SG	3000	406	35	3
SLZ L 500 SG	3000	506	35	3
SLZ L 600 SG	3000	606	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

90° bend

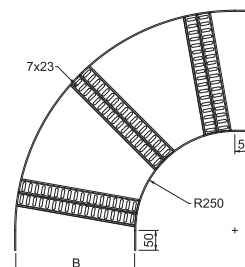
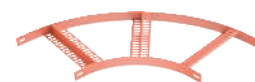
Type	Width mm	Rail thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SLZB L 90 100 SG	100	3	1	111.000	7099201
SLZB L 90 150 SG	150	3	1	127.000	7099202
SLZB L 90 200 SG	200	3	1	143.000	7099203
SLZB L 90 300 SG	300	3	1	174.000	7099205
SLZB L 90 400 SG	400	3	1	206.000	7099208
SLZB L 90 500 SG	500	3	1	237.000	7099210
SLZB L 90 600 SG	600	3	1	269.000	7099212

Sl Steel

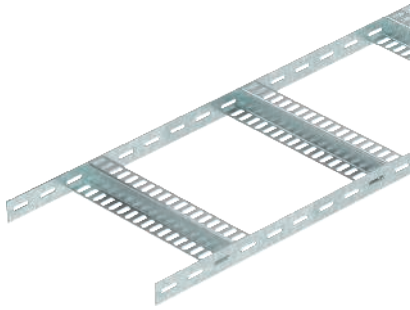
SG Pre-treated for welding

Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipping cable ladder, type SLZ L, with side height of 35 mm with welded, perforated Z rungs.



Cable ladder with Z rung, light duty



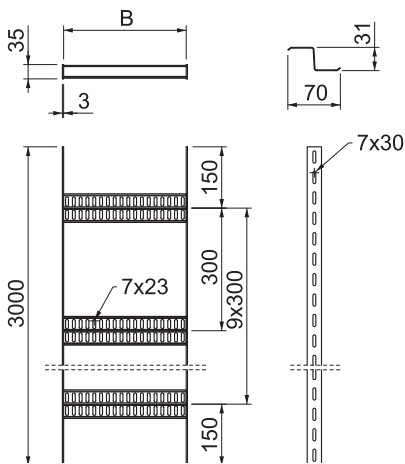
Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SLZ L 100 FT	100	3	3	175.340	7098002
SLZ L 150 FT	150	3	3	186.670	7098004
SLZ L 200 FT	200	3	3	198.340	7098006
SLZ L 300 FT	300	3	3	221.670	7098008
SLZ L 400 FT	400	3	3	245.000	7098010
SLZ L 500 FT	500	3	3	268.340	7098012
SLZ L 600 FT	600	3	3	291.670	7098014

Sl Steel

FT Hot-dip galvanized

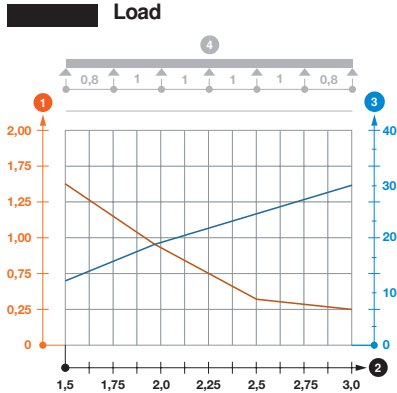
Marine cable ladder with perforated side rail of side height 35 mm with welded, perforated Z-rungs. Load tested according to IEC in conjunction with connector, type SLV.

Dimensions



Type	Length mm	Dimension B mm	Side height mm	Rail thickness mm
SLZ L 100 FT	3000	106	35	3
SLZ L 150 FT	3000	156	35	3
SLZ L 200 FT	3000	206	35	3
SLZ L 300 FT	3000	306	35	3
SLZ L 400 FT	3000	406	35	3
SLZ L 500 FT	3000	506	35	3
SLZ L 600 FT	3000	606	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

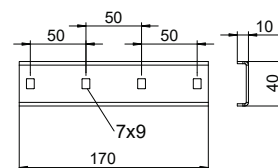
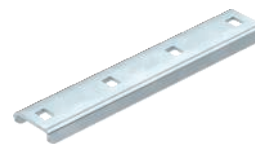
Connector



Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
SLV 52 FT	10	14.700	7103544

- St** Steel
- FT** Hot-dip galvanised

Straight connector as external connector to connect cable ladders and fittings with a side height of 35 mm.



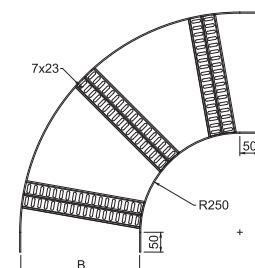
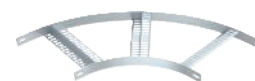
90° bend

Type	Width mm	Rail thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
SLZB L 90 100 FT	100	3	1	119.400	7099221
SLZB L 90 150 FT	150	3	1	136.400	7099222
SLZB L 90 200 FT	200	3	1	153.300	7099224
SLZB L 90 300 FT	300	3	1	187.200	7099226
SLZB L 90 400 FT	400	3	1	221.000	7099228
SLZB L 90 500 FT	500	3	1	254.900	7099230
SLZB L 90 600 FT	600	3	1	288.800	7099232

- St** Steel
- FT** Hot-dip galvanised

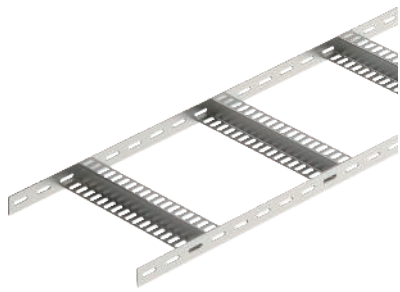
Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipping cable ladder, type SLZ L, with side height of 35 mm with welded, perforated Z rungs.



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Cable ladder with Z rung, light duty



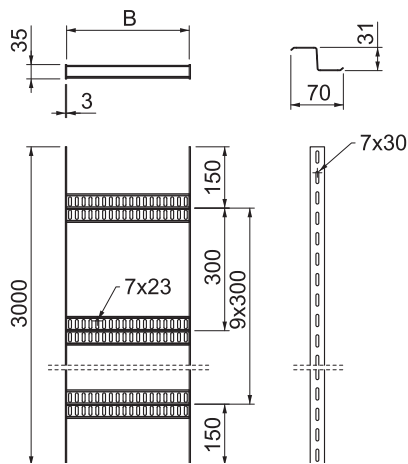
Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SLZ L 100 A4	100	3	3	167.000	7098082
SLZ L 150 A4	150	3	3	177.340	7098084
SLZ L 200 A4	200	3	3	187.670	7098086
SLZ L 300 A4	300	3	3	208.670	7098088
SLZ L 400 A4	400	3	3	229.340	7098090
SLZ L 500 A4	500	3	3	250.000	7098092
SLZ L 600 A4	600	3	3	270.670	7098094

V4A Stainless steel, A4

GB Stained

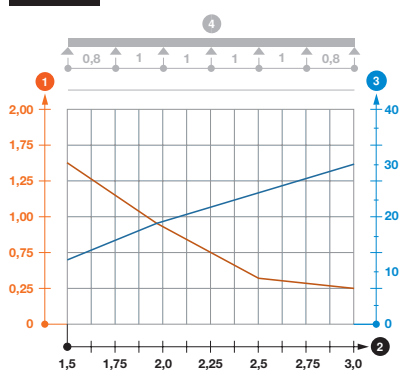
Light-duty shipping cable ladder with perforated side rail of side height 35 mm with welded, perforated Z rungs. Load tested according to IEC in conjunction with connector, type SLV.

Dimensions



Type	Length mm	Dimension B mm	Side height mm	Rail thickness mm
SLZ L 100 A4	3000	106	35	3
SLZ L 150 A4	3000	156	35	3
SLZ L 200 A4	3000	206	35	3
SLZ L 300 A4	3000	306	35	3
SLZ L 400 A4	3000	406	35	3
SLZ L 500 A4	3000	506	35	3
SLZ L 600 A4	3000	606	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 A4	1.5	0.85	0.35	0.25
SLZ L 150 A4	1.5	0.85	0.35	0.25
SLZ L 200 A4	1.5	0.85	0.35	0.25
SLZ L 300 A4	1.5	0.85	0.35	0.25
SLZ L 400 A4	1.5	0.85	0.35	0.25
SLZ L 500 A4	1.5	0.85	0.35	0.25
SLZ L 600 A4	1.5	0.85	0.35	0.25

Load diagram, cable ladder SLZ L

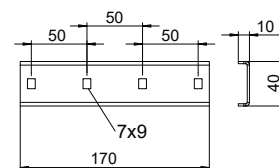
- 1 Permitted cable tray/ladder load in kN/m without man load
- 2 Support width in m
- 3 Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
- 4 Load scheme during testing

Connector

Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
SLV 52 A4	10	14.000	7103564

V4A Stainless steel, A4

Straight connector as external connector to connect cable ladders and fittings with a side height of 35 mm.



90° bend

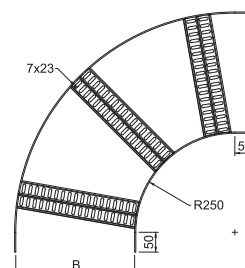
Type	Width mm	Rail thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
SLZB L 90 100 A4	100	3	1	114.000	7099261
SLZB L 90 150 A4	150	3	1	130.200	7099262
SLZB L 90 200 A4	200	3	1	146.400	7099263
SLZB L 90 300 A4	300	3	1	178.700	7099265
SLZB L 90 400 A4	400	3	1	211.000	7099268
SLZB L 90 500 A4	500	3	1	243.400	7099270
SLZB L 90 600 A4	600	3	1	275.700	7099272

V4A Stainless steel, A4

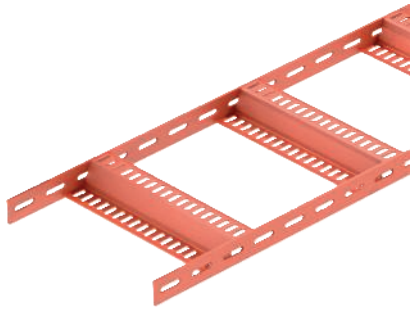
GB Stained

Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipping cable ladder, type SLZ L, with side height of 35 mm with welded, perforated Z rungs.



Cable ladder with Z rung, standard



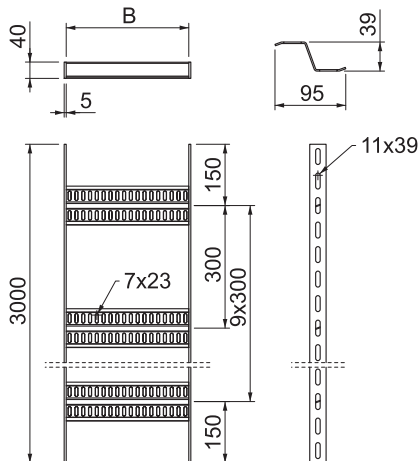
Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SLZ 100 SG	100	5	3	319.000	7098162
SLZ 200 SG	200	5	3	372.340	7098164
SLZ 300 SG	300	5	3	425.670	7098166
SLZ 400 SG	400	5	3	479.000	7098168
SLZ 500 SG	500	5	3	532.340	7098170
SLZ 600 SG	600	5	3	585.666	7098172
SLZ 700 SG	700	5	3	639.000	7098174
SLZ 800 SG	800	5	3	692.333	7098176
SLZ 900 SG	900	5	3	745.666	7098178
SLZ 1000 SG	1000	5	3	799.000	7098180
SLZ 1200 SG	1200	5	3	905.333	7098182

SI Steel

SG Pre-treated for welding

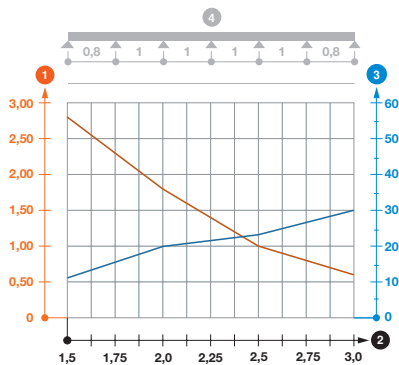
Marine cable ladder with perforated side rail of side height 40 mm with welded, perforated Z-rungs. Load tested according to IEC in conjunction with connector, type SLV. Welding primer type SIGMA-WELD 199, also available in white.

Dimensions



Type	Length mm	Dimen- sion B mm	Side height mm	Rail thickness mm
SLZ 100 SG	3000	110	40	5
SLZ 200 SG	3000	210	40	5
SLZ 300 SG	3000	310	40	5
SLZ 400 SG	3000	410	40	5
SLZ 500 SG	3000	510	40	5
SLZ 600 SG	3000	610	40	5
SLZ 700 SG	3000	710	40	5
SLZ 800 SG	3000	810	40	5
SLZ 900 SG	3000	910	40	5
SLZ 1000 SG	3000	1010	40	5
SLZ 1200 SG	3000	1210	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

90° bend

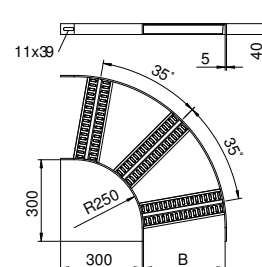
Type	Width mm	Rail thickness mm	Weight		Item No.
			Pack. pcs	kg/100 pcs.	
SLZB 90 100 SG	100	5	1	222.200	7098976
SLZB 90 200 SG	200	5	1	295.100	7098978
SLZB 90 300 SG	300	5	1	338.600	7098980
SLZB 90 400 SG	400	5	1	441.300	7098982
SLZB 90 500 SG	500	5	1	514.000	7098984
SLZB 90 600 SG	600	5	1	586.600	7098986
SLZB 90 700 SG	700	5	1	771.400	7098988
SLZB 90 800 SG	800	5	1	860.100	7098990
SLZB 90 900 SG	900	5	1	945.000	7098992
SLZB 90 1000 SG	1000	5	1	1,031.200	7098994
SLZB 90 1200 SG	1200	5	1	1,214.600	7098996

Sl Steel

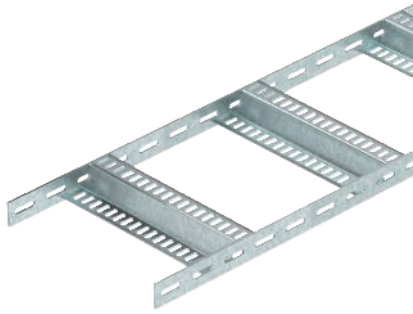
SG Pre-treated for welding

Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipping cable ladder, type SLZ, with side height of 40 mm with welded, perforated Z rungs.



Cable ladder with Z rung, standard



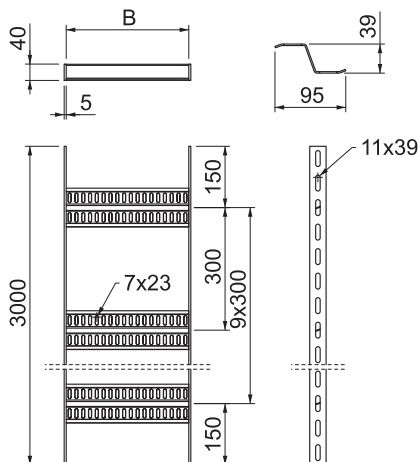
Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SLZ 100 FT	100	5	3	328.700	7098132
SLZ 150 FT	150	5	3	357.000	7098133
SLZ 200 FT	200	5	3	385.333	7098134
SLZ 300 FT	300	5	3	441.666	7098136
SLZ 400 FT	400	5	3	498.166	7098138
SLZ 500 FT	500	5	3	554.666	7098140
SLZ 600 FT	600	5	3	611.333	7098142
SLZ 700 FT	700	5	3	667.666	7098144
SLZ 800 FT	800	5	3	724.333	7098146
SLZ 900 FT	900	5	3	780.666	7098148
SLZ 1000 FT	1000	5	3	837.333	7098150
SLZ 1200 FT	1200	5	3	950.333	7098152

St Steel

FT Hot-dip galvanized

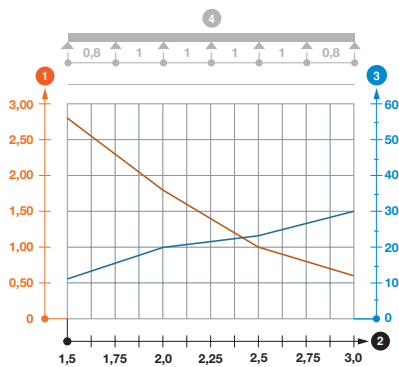
Shipping cable ladder with perforated side rail of side height 40 mm with welded, perforated Z rungs. Load tested according to IEC in conjunction with connector, type SLV.

Dimensions



Type	Length mm	Dimen- sion B mm	Side height mm	Rail thickness mm
SLZ 100 FT	3000	110	40	5
SLZ 150 FT	3000	160	40	5
SLZ 200 FT	3000	210	40	5
SLZ 300 FT	3000	310	40	5
SLZ 400 FT	3000	410	40	5
SLZ 500 FT	3000	510	40	5
SLZ 600 FT	3000	610	40	5
SLZ 700 FT	3000	710	40	5
SLZ 800 FT	3000	810	40	5
SLZ 900 FT	3000	910	40	5
SLZ 1000 FT	3000	1010	40	5
SLZ 1200 FT	3000	1210	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 150 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

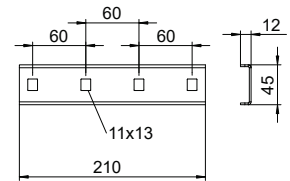
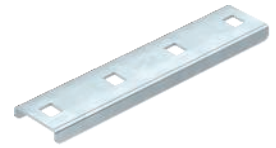
Connector



Type	Pack. pcs.	Weight kg/100 pcs.	Item No.
SLV 62 FT	10	20.900	7103548

- Sl** Steel
- FT** Hot-dip galvanised

Straight connector as external connector to connect cable ladders and fittings with a side height of 40 mm.



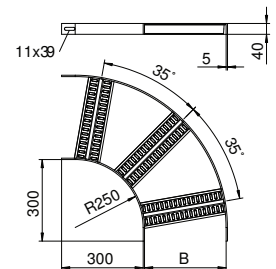
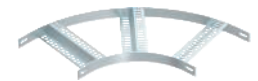
90° bend

Type	Width mm	Rail thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
SLZB 90 100 FT	100	5	1	228.900	7099000
SLZB 90 150 FT	150	5	1	266.100	7099001
SLZB 90 200 FT	200	5	1	306.000	7099002
SLZB 90 300 FT	300	5	1	382.000	7099004
SLZB 90 400 FT	400	5	1	458.000	7099006
SLZB 90 500 FT	500	5	1	533.000	7099008
SLZB 90 600 FT	600	5	1	609.000	7099010
SLZB 90 700 FT	700	5	1	806.000	7099012
SLZB 90 800 FT	800	5	1	900.000	7099014
SLZB 90 900 FT	900	5	1	994.000	7099016
SLZB 90 1000 FT	1000	5	1	1,088.000	7099018
SLZB 90 1200 FT	1200	5	1	1,276.000	7099020

- Sl** Steel
- FT** Hot-dip galvanised

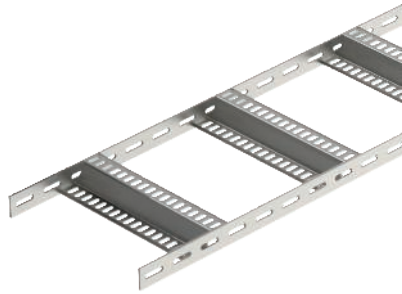
Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipping cable ladder, type SLZ, with side height of 40 mm with welded, perforated Z rungs.



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Cable ladder with Z rung, standard



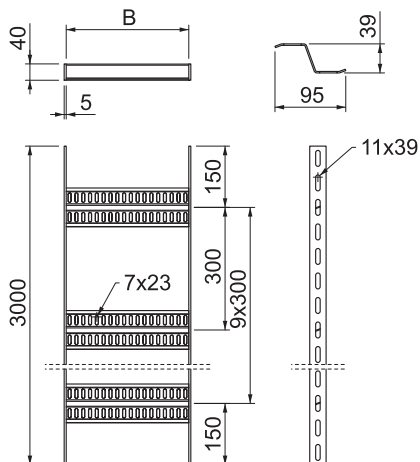
Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SLZ 100 A2	100	5	3	319.000	7098192
SLZ 200 A2	200	5	3	372.400	7098194
SLZ 300 A2	300	5	3	425.670	7098196
SLZ 400 A2	400	5	3	479.000	7098198
SLZ 500 A2	500	5	3	532.340	7098200
SLZ 600 A2	600	5	3	585.670	7098202
SLZ 700 A2	700	5	3	639.000	7098204
SLZ 800 A2	800	5	3	692.340	7098206
SLZ 900 A2	900	5	3	745.670	7098208
SLZ 1000 A2	1000	5	3	799.000	7098210
SLZ 1200 A2	1200	5	3	905.340	7098212

V2A Stainless steel, A2

GB Stained

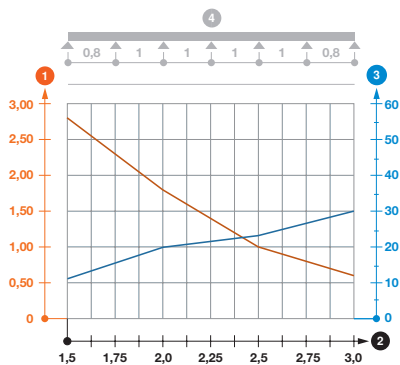
Marine cable ladder with perforated side rail of side height 40 mm with welded, perforated Z rungs. Load tested according to IEC in conjunction with connector, type SLV.

Dimensions



Type	Length mm	Dimen- sion B mm	Side height mm	Rail thickness mm
SLZ 100 A2	3000	110	40	5
SLZ 200 A2	3000	210	40	5
SLZ 300 A2	3000	310	40	5
SLZ 400 A2	3000	410	40	5
SLZ 500 A2	3000	510	40	5
SLZ 600 A2	3000	610	40	5
SLZ 700 A2	3000	710	40	5
SLZ 800 A2	3000	810	40	5
SLZ 900 A2	3000	910	40	5
SLZ 1000 A2	3000	1010	40	5
SLZ 1200 A2	3000	1210	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 A2	2.8	1.75	1	0.6
SLZ 200 A2	2.8	1.75	1	0.6
SLZ 300 A2	2.8	1.75	1	0.6
SLZ 400 A2	2.8	1.75	1	0.6
SLZ 500 A2	2.8	1.75	1	0.6
SLZ 600 A2	2.8	1.75	1	0.6
SLZ 700 A2	2.8	1.75	1	0.6
SLZ 800 A2	2.8	1.75	1	0.6
SLZ 900 A2	2.8	1.75	1	0.6
SLZ 1000 A2	2.8	1.75	1	0.6
SLZ 1200 A2	2.8	1.75	1	0.6

Load diagram, cable ladder SLZ

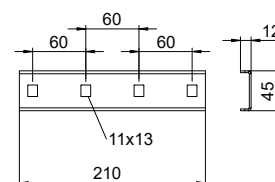
- ① Permitted cable/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
- ④ Load scheme during testing

Connector

Type	Pack. pcs.	Weight		Item No.
		kg/100	pcs.	
SLV 62 A4	10	14.600	7103568	

V4A Stainless steel, A4

Straight connector as external connector to connect cable ladders and fittings with a side height of 40 mm.



90° bend

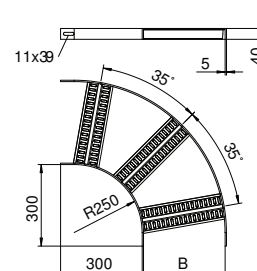
Type	Width mm	Rail thickness mm	Pack. pcs.	Weight		Item No.
				kg/100	pcs.	
SLZB 90 100 A2	100	5	1	225.100	7099030	
SLZB 90 200 A2	200	5	1	298.300	7099032	
SLZB 90 300 A2	300	5	1	371.500	7099034	
SLZB 90 400 A2	400	5	1	444.600	7099036	
SLZB 90 500 A2	500	5	1	517.700	7099038	
SLZB 90 600 A2	600	5	1	590.900	7099040	
SLZB 90 700 A2	700	5	1	776.800	7099042	
SLZB 90 800 A2	800	5	1	866.000	7099044	
SLZB 90 900 A2	900	5	1	955.200	7099046	
SLZB 90 1000 A2	1000	5	1	1,044.400	7099048	
SLZB 90 1200 A2	1200	5	1	1,222.800	7099050	

V2A Stainless steel, A2

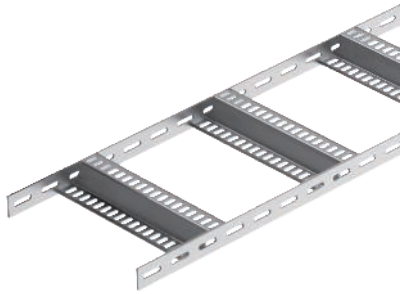
GB Stained

Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipping cable ladder, type SLZ, with side height of 40 mm with welded, perforated Z rungs.



Cable ladder with Z rung, standard



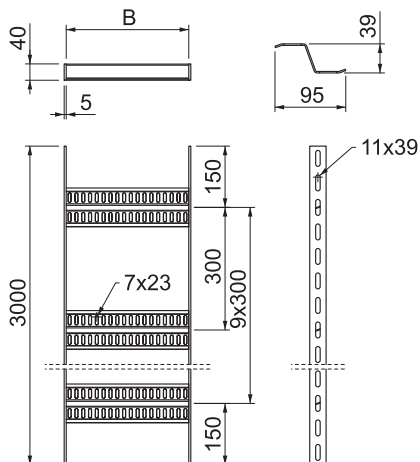
Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SLZ 100 A4	100	5	3	319.000	7098222
SLZ 200 A4	200	5	3	372.340	7098224
SLZ 300 A4	300	5	3	427.670	7098226
SLZ 400 A4	400	5	3	479.000	7098228
SLZ 500 A4	500	5	3	532.340	7098230
SLZ 600 A4	600	5	3	585.670	7098232
SLZ 700 A4	700	5	3	639.000	7098234
SLZ 800 A4	800	5	3	692.340	7098236
SLZ 900 A4	900	5	3	745.670	7098238
SLZ 1000 A4	1000	5	3	799.000	7098240
SLZ 1200 A4	1200	5	3	905.340	7098242

V4A Stainless steel, A4

GB Stained

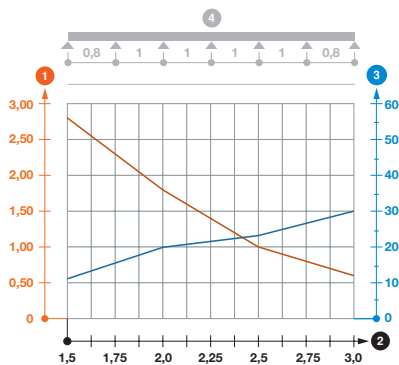
Marine cable ladder with perforated side rail of side height 40 mm with welded, perforated Z rungs. Load tested according to IEC in conjunction with connector, type SLV.

Dimensions



Type	Length mm	Dimen- sion B mm	Side height mm	Rail thickness mm
SLZ 100 A4	3000	110	40	5
SLZ 200 A4	3000	210	40	5
SLZ 300 A4	3000	310	40	5
SLZ 400 A4	3000	410	40	5
SLZ 500 A4	3000	510	40	5
SLZ 600 A4	3000	610	40	5
SLZ 700 A4	3000	710	40	5
SLZ 800 A4	3000	810	40	5
SLZ 900 A4	3000	910	40	5
SLZ 1000 A4	3000	1010	40	5
SLZ 1200 A4	3000	1210	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 A4	2.8	1.75	1	0.6
SLZ 200 A4	2.8	1.75	1	0.6
SLZ 300 A4	2.8	1.75	1	0.6
SLZ 400 A4	2.8	1.75	1	0.6
SLZ 500 A4	2.8	1.75	1	0.6
SLZ 600 A4	2.8	1.75	1	0.6
SLZ 700 A4	2.8	1.75	1	0.6
SLZ 800 A4	2.8	1.75	1	0.6
SLZ 900 A4	2.8	1.75	1	0.6
SLZ 1000 A4	2.8	1.75	1	0.6
SLZ 1200 A4	2.8	1.75	1	0.6

Load diagram, cable ladder SLZ

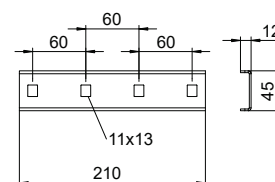
- ① Permitted cable/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
- ④ Load scheme during testing

Connector

Type	Pack. pcs.	Weight kg/100 pcs.	Item No.

V4A Stainless steel, A4

Straight connector as external connector to connect cable ladders and fittings with a side height of 40 mm.



90° bend

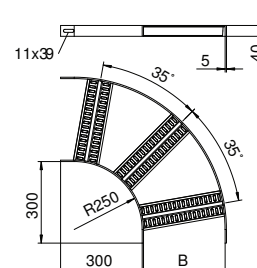
Type	Width mm	Rail thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
SLZB 90 200 A4	200	5	1	302.100	7099062
SLZB 90 300 A4	300	5	1	376.200	7099064
SLZB 90 400 A4	400	5	1	450.200	7099066
SLZB 90 500 A4	500	5	1	524.300	7099068
SLZB 90 600 A4	600	5	1	598.300	7099070
SLZB 90 700 A4	700	5	1	786.600	7099072
SLZB 90 800 A4	800	5	1	877.000	7099074
SLZB 90 900 A4	900	5	1	967.300	7099076
SLZB 90 1000 A4	1000	5	1	1,057.600	7099078
SLZB 90 1200 A4	1200	5	1	1,238.300	7099080

V4A Stainless steel, A4

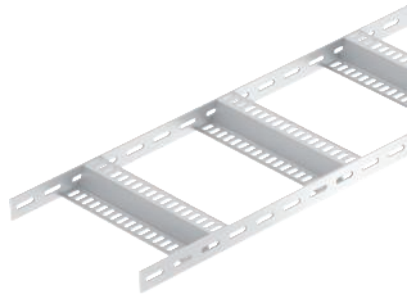
GB Stained

Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipping cable ladder, type SLZ, with side height of 40 mm with welded, perforated Z rungs.



Cable ladder with Z rung, standard



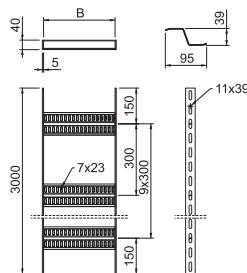
Type	Width mm	Rail thickness mm	Pack. m	Weight kg/100 m	Item No.
SLZ 100 ALU	100	5	3	106.600	7099772
SLZ 200 ALU	200	5	3	124.670	7099774
SLZ 300 ALU	300	5	3	142.740	7099776
SLZ 400 ALU	400	5	3	160.770	7099778
SLZ 500 ALU	500	5	3	178.840	7099780
SLZ 600 ALU	600	5	3	196.900	7099782
SLZ 700 ALU	700	5	3	214.970	7099784
SLZ 800 ALU	800	5	3	233.033	7099786
SLZ 900 ALU	900	5	3	251.100	7099788
SLZ 1000 ALU	1000	5	3	269.170	7099790
SLZ 1200 ALU	1200	5	3	305.270	7099792

Alu Aluminium

GB Stained

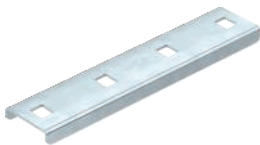
Marine cable ladder with perforated side rail of side height 40 mm with welded, perforated Z-rungs.

Dimensions



Type	Length mm	Dimen- sion B mm	Side height mm	Rail thickness mm
SLZ 100 ALU	3000	110	40	5
SLZ 200 ALU	3000	210	40	5
SLZ 300 ALU	3000	310	40	5
SLZ 400 ALU	3000	410	40	5
SLZ 500 ALU	3000	510	40	5
SLZ 600 ALU	3000	610	40	5
SLZ 700 ALU	3000	710	40	5
SLZ 800 ALU	3000	810	40	5
SLZ 900 ALU	3000	910	40	5
SLZ 1000 ALU	3000	1010	40	5
SLZ 1200 ALU	3000	1210	40	5

Connector



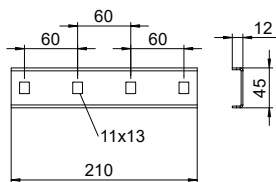
Type

SLV 62 ALU

Alu Aluminium

Straight connector as external connector to connect cable ladders and fittings with a side height of 40 mm.

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
SLV 62 ALU	10	12.500	7103554



90° bend

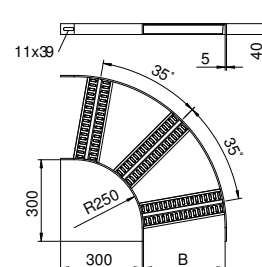
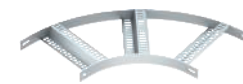
Type	Width mm	Rail thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SLZB 90 100 ALU	100	5	1	75.800	7099090
SLZB 90 200 ALU	200	5	1	100.400	7099092
SLZB 90 300 ALU	300	5	1	125.100	7099094
SLZB 90 400 ALU	400	5	1	149.700	7099096
SLZB 90 500 ALU	500	5	1	174.300	7099098
SLZB 90 600 ALU	600	5	1	198.900	7099100
SLZB 90 700 ALU	700	5	1	261.600	7099102
SLZB 90 800 ALU	800	5	1	291.600	7099104
SLZB 90 900 ALU	900	5	1	321.600	7099106
SLZB 90 1000 ALU	1000	5	1	351.700	7099108
SLZB 90 1200 ALU	1200	5	1	411.700	7099110

Alu Aluminium

GB Stained

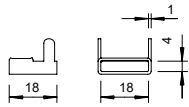
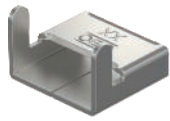
Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipping cable ladder, type SLZ, with side height of 40 mm with welded, perforated Z rungs.



Tightening strap

Tightening strap lock



Type	Pack. pcs	Weight		Item No.
		kg/100 pcs.		
SBV 15 A2	100	0.560		6490964
SBV 15 A4	100	0.560		6490972

V2A Stainless steel, A2 V4A Stainless steel, A4

Tightening strap lock made of rustproof steel, suitable for portfolio with 15 mm width.

Spring chuck



Type	Pack. pcs	Weight		Item No.
		kg/100 pcs.		
575	1	29.700		6498019

St Steel

Clamping tool for all OBO tightening straps in conjunction with appropriate tightening strap locks. Simple spring chuck without ratchet function and shortening unit. With ergonomically shaped grips.

Spring chuck

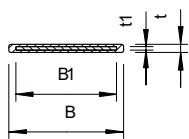


Type	Pack. pcs	Weight		Item No.
		kg/100 pcs.		
576	1	132.000		6498027

St Steel

Clamping tool for all OBO tightening straps in conjunction with appropriate tightening strap locks. With high clamping force, ratchet function, shortening unit and round grips for pleasant handling.

Tightening strap



Type	Ø breaking load kN	Colour	Pack. m	Weight		Item No.
				kg/100 m		
SBR 8 A2K	1.16	Jet black	50	2.840		6490192
SBR 8 A4K	1.09	Chestnut brown	50	2.840		6490194
SBR 15 FSK	2.5	Stone grey	25	7.628		6490280
SBR 15 A2K	4.19	Jet black	25	7.628		6490282
SBR 15 A4K	3.93	Chestnut brown	25	7.628		6490284

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FSK Strip galvanised/plastic-coated K Plastic-coated

Tightening strap made of rustproof steel with plastic jacketing to fasten cables on cable support systems.

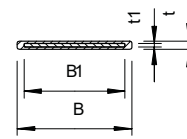
Tightening strap in fixed lengths

Type	Length mm	Ø breaking load kN	Colour	Weight		Item No.
				Pack. pcs.	kg/100 pcs.	
SBF 8-200 A2K	200	1.16	Jet black	25	0.700	6490210
SBF 8-300 A2K	300	1.16	Jet black	25	1.000	6490214
SBF 8-400 A2K	400	1.16	Jet black	25	1.300	6490218
SBF 8-500 A2K	500	1.16	Jet black	25	1.600	6490222
SBF 8-600 A2K	600	1.16	Jet black	25	1.800	6490226
SBF 8-200 A4K	200	1.09	Chestnut brown	25	0.700	6490240
SBF 8-300 A4K	300	1.09	Chestnut brown	25	1.000	6490244
SBF 8-400 A4K	400	1.09	Chestnut brown	25	1.300	6490248
SBF 8-500 A4K	500	1.09	Chestnut brown	25	1.600	6490252
SBF 8-600 A4K	600	1.09	Chestnut brown	25	1.800	6490256
SBF 15-300 FSK	300	2.5	Stone grey	25	2.600	6490300
SBF 15-400 FSK	400	2.5	Stone grey	25	3.300	6490304
SBF 15-500 FSK	500	2.5	Stone grey	25	4.100	6490308
SBF 15-600 FSK	600	2.5	Stone grey	25	4.800	6490312
SBF 15-700 FSK	700	2.5	Stone grey	25	5.500	6490316
SBF 15-800 FSK	800	2.5	Stone grey	25	6.200	6490320
SBF 15-900 FSK	900	2.5	Stone grey	25	6.900	6490324
SBF 15-1000 FSK	1000	2.5	Stone grey	25	7.600	6490328
SBF 15-300 A2K	300	4.19	Jet black	25	2.600	6490340
SBF 15-400 A2K	400	4.19	Jet black	25	3.300	6490344
SBF 15-500 A2K	500	4.19	Jet black	25	4.100	6490348
SBF 15-600 A2K	600	4.19	Jet black	25	4.800	6490352
SBF 15-700 A2K	700	4.19	Jet black	25	5.500	6490356
SBF 15-800 A2K	800	4.19	Jet black	25	6.200	6490360
SBF 15-900 A2K	900	4.19	Jet black	25	6.900	6490364
SBF 15-1000 A2K	1000	4.19	Jet black	25	7.600	6490368
SBF 15-300 A4K	300	3.93	Chestnut brown	25	2.600	6490380
SBF 15-400 A4K	400	3.93	Chestnut brown	25	3.300	6490384
SBF 15-500 A4K	500	3.93	Chestnut brown	25	4.100	6490388
SBF 15-600 A4K	600	3.93	Chestnut brown	25	4.800	6490392
SBF 15-700 A4K	700	3.93	Chestnut brown	25	5.500	6490396
SBF 15-800 A4K	800	3.93	Chestnut brown	25	6.200	6490400
SBF 15-900 A4K	900	3.93	Chestnut brown	25	6.900	6490404
SBF 15-1000 A4K	1000	3.93	Chestnut brown	25	7.600	6490408

St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FSK Strip galvanised/plastic-coated K Plastic-coated

Pre-terminated tightening strap made of rustproof steel with plastic jacketing and tightening strap lock.



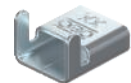
Tightening strap lock

Type	Pack. pcs.	Weight		Item No.
		kg/100 pcs.		
SBV 8 FS	100	0.250		6490940
SBV 8 A2	100	0.250		6490942
SBV 8 A4	100	0.250		6490944
SBV 15 FS	100	0.560		6490950

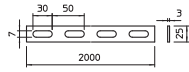
St Steel V2A Stainless steel, A2 V4A Stainless steel, A4

FS Strip-galvanised

Tightening strap lock made of strip-galvanised steel, suitable for portfolio with 8 mm width.



Construction and suspension profile, SL42



Type	Dimension mm	Length mm	Pack.		Weight kg/100 m	Item No.
			m	kg/100 m		
SLH 42 2000 SG	25x3	2000	2	50.000		7103603
SLH 42 2000 FT	25x3	2000	2	51.500		7103611
SLH 42 2000 A2	25x3	2000	2	50.000		7103620
SLH 42 2000 A4	25x3	2000	2	50.000		7103626

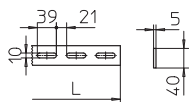
Sl Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4

SG Pre-treated for welding **FT** Hot-dip galvanised

The profile is available in bright steel on request.

Perforated side rail profile of ship ladder, SL 42, for creation of suspension and support structures.

Construction and suspension profile, SL62



Type	Dimension mm	Length mm	Pack.		Weight kg/100 m	Item No.
			m	kg/100 m		
SLH 62 3000 SG	40x5	3000	3	133.000		7103635
SLH 62 3000 FT	40x5	3000	3	135.700		7103643
SLH 62 3000 A2	40x5	3000	3	133.000		7103650
SLH 62 3000 A4	40x5	3000	3	133.000		7103656

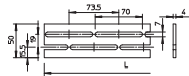
Sl Steel **V2A** Stainless steel, A2 **V4A** Stainless steel, A4

SG Pre-treated for welding **FT** Hot-dip galvanised

The profile is available in bright steel on request.

Perforated side rail of ship cable ladder, SL 62, for creation of suspension and support structures.

Construction and suspension profile



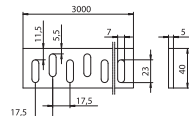
Type	Dimension mm	Length mm	Pack.		Weight kg/100 m	Item No.
			m	kg/100 m		
FESP L 50 4 BK	50x4	3000	3	116.000		7104960
FESP L 50 4 FT	50x4	3000	3	118.900		7105002

Sl Steel

BK Bright **FT** Hot-dip galvanised

Flat iron profile with double, offset longitudinal hole row for creation of suspensions and support structures.

Construction and suspension profile



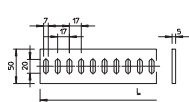
Type	Dimension mm	Length mm	Pack.		Weight kg/100 m	Item No.
			m	kg/100 m		
FESP Q 40 5 SG	40x5	3000	3	123.300		7104358
FESP Q 40 5 FT	40x5	3000	3	130.000		7104356

Sl Steel

SG Pre-treated for welding **FT** Hot-dip galvanised

Flat iron profile with double, side-offset slot row to create suspensions and support constructions.

Construction and suspension profile



Type	Length mm	Plate thickness mm	Pack.		Weight kg/100 m	Item No.
			m	kg/100 m		
FESP Q 50 5 BK	3000	5.00	3	166.367		7104367

Sl Steel

BK Bright

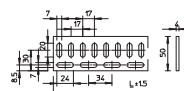
Flat iron profile with slots to create suspensions and support constructions.

Construction and suspension profile

Type	Plate		Pack.	Weight		Item No.
	Length	thickness		m	kg/100 m	
FESP QL 50 4 BK	3000	4.00	3	118.567		7104669

- St Steel
- BK Bright

Flat iron profile with transverse and lengthwise slots to create suspended and support constructions.

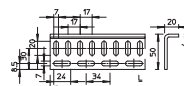


Angle profile

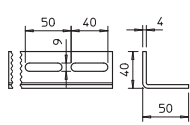
Type	Plate		Pack.	Weight		Item No.
	Length	thickness		m	kg/100 m	
WESP 50 20 BK	3000	4.00	3	159.000		7105665

- St Steel
- BK Bright

Angle profile with transverse and longitudinal perforation to create suspension and support constructions.



Angle profile



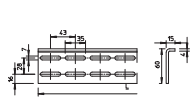
Type	Length mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
WESP 50 40 SG	3000	4.00	3	239.340	7105675
WESP 50 40 FT	3000	4.00	3	246.340	7105673

St Steel

SG Pre-treated for welding **FT** Hot-dip galvanised

Angle profile with longitudinal perforation row to create suspension and support constructions.

Angle profile



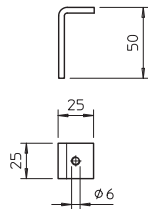
Type	Length mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
WESP 60 15 BK	3000	4.00	3	179.000	7105967

St Steel

BK Bright

Angle profile with longitudinal perforation to create suspension and support constructions.

Welding angle



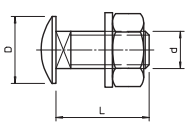
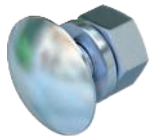
Type	Dimension mm	Pack. pcs	Weight kg/100 pcs.	Item No.
ASW FT	25x50	10	5.700	6015350

St Steel

FT Hot-dip galvanised

Connection bracket for mounting marine cable ladders and marine trays, for welding to steel structures.

Truss-head bolt with nut and washer



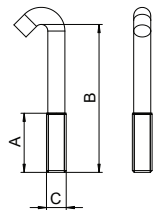
Type	Dimension mm	Dimen- sion L mm	Dimen- sion D mm	Resistance class	Pack. pcs	Weight kg/100 pcs.	Item No.
FRS 8x25 F	M 8 x 25	25	20	8.8	50	2.300	6406998
FRS 10x30 F	M 10 x 30	30	24	8.8	50	5.000	6407579
FRS 8x25 A2	M 8 x 25	25	20	A2-70	50	2.300	6406815
FRS 10x30 A2	M10 x 30	30	24	A2-70	50	4.500	6406726

St Steel **V2A** Stainless steel, A2

F Hot-dip galvanised

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

Hook screw

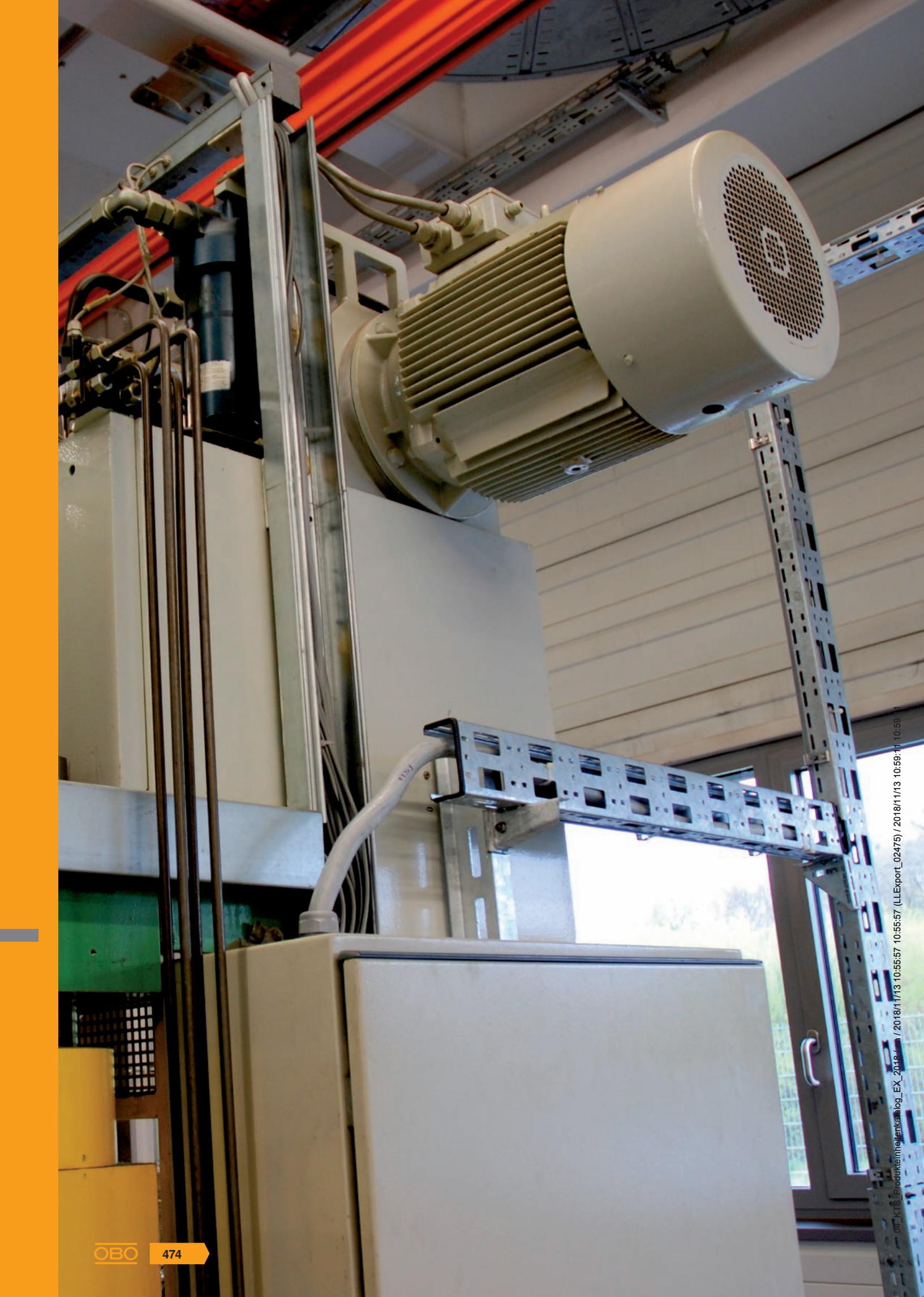


Type	Thread	Pack. pcs	Weight kg/100 pcs.	Item No.
HS M6x45 A4	M6	25	0.970	1154970
HS M8x60 A4	M8	25	2.330	1154975

V4A Stainless steel, A4

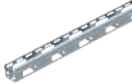


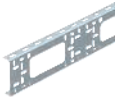


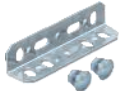
Hook screw for fastening cable tracks on the bracket.



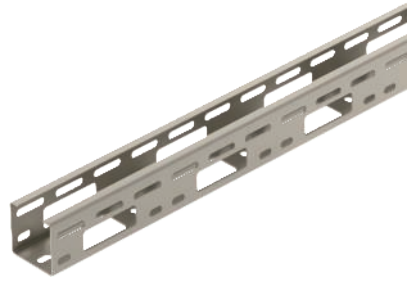


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Modular systems

	AZ channel	476
	System accessories	483
	Motor connection column	486
	BKK system	487
	Cable trunking, side height 50, 75, 100, 150 and 225 mm	488
	Fittings, side height 50, 75, 100, 150 and 225 mm	491
	System accessories	498

AZ channel system 50



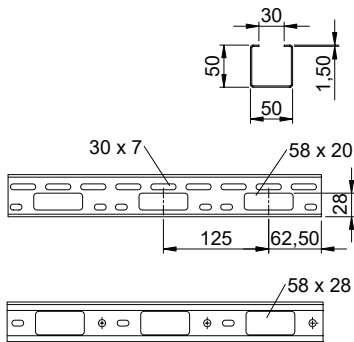
Type	Plate		Pack. m	Weight kg/100 m	Item No.
	Width mm	thickness mm			
AZK 050 FS	50	1.50	3	135.700	6075096
AZK 050 FT	50	1.50	12	144.700	6075142
AZK 050 A2	50	1.50	12	135.700	6075150
AZK 050 A4	50	1.50	12	135.700	6075152

St Steel
 V2A Stainless steel, A2
 V4A Stainless steel, A4

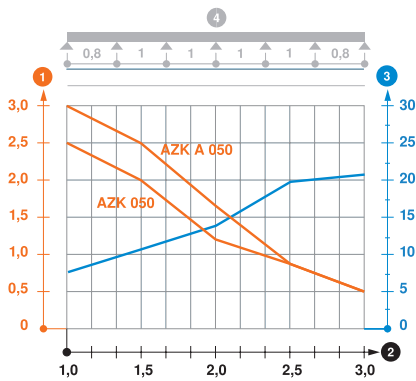
FS Strip-galvanised
 FT Hot-dip galvanised

AZ channel with a side height of 50 mm.

Dimensions



Load



Type	Length mm	Width mm	Side
			height mm
AZK 050 FS	3000	50	50

Type	1.0 m	1.5 m	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
AZK 050 FS	2.5	2	1.2	0.85	0.5

Load diagram, AZ small duct

- 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

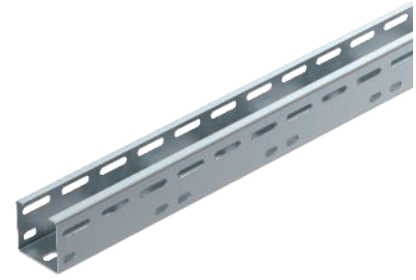
AZ channel system 50

Type	Plate		Pack. m	Weight kg/100 m	Item No.
	Width mm	thickness mm			
AZK A 050 FT	50	1.50	3	165.670	6076149

St Steel

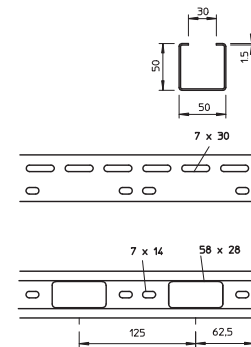
FT Hot-dip galvanised

AZ channel with a side height of 50 mm.



Type	Length mm	Width mm	Side
			height mm
AZK A 050 FT	3000	50	50

Dimensions

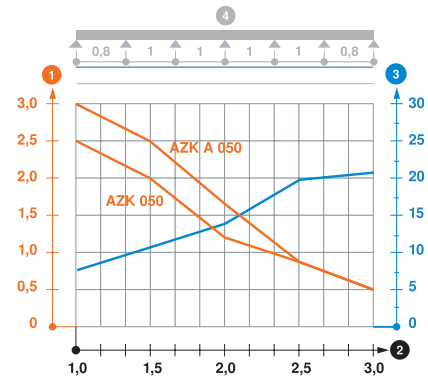


Load

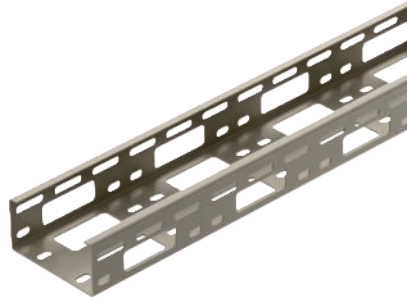
Type	1.0 m	1.5 m	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
AZK A 050 FT	3	2.5	1.7	0.85	0.5

Load diagram, AZ small duct

- 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 system 100

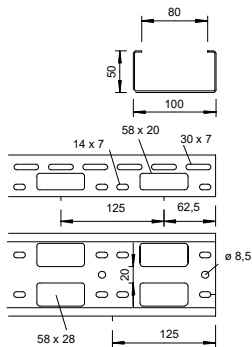


Type	Plate		Pack. m	Weight kg/100 m	Item No.
	Width mm	thickness mm			
AZK 100 FS	100	1.50	3	176.940	6075231
AZK 100 FT	100	1.50	12	188.670	6075258
AZK 100 A2	100	1.50	6	176.934	6075304

■ Steel ■ V2A Stainless steel, A2
■ FS Strip-galvanised ■ FT Hot-dip galvanised

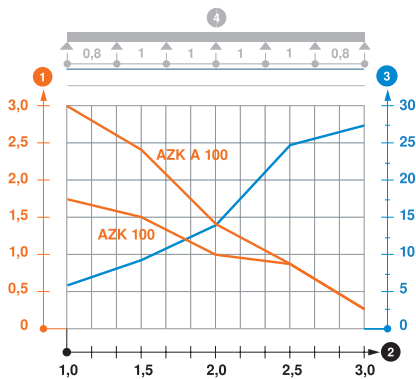
AZ channel with a side height of 50 mm.

Dimensions



Type	Length mm	Width mm	Side
			height mm
AZK 100 FS	3000	100	50

Load



Type	1.0 m	1.5 m	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
AZK 100 FS	1.7	1.5	1	0.8	0.25

Load diagram, AZ small duct

- 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

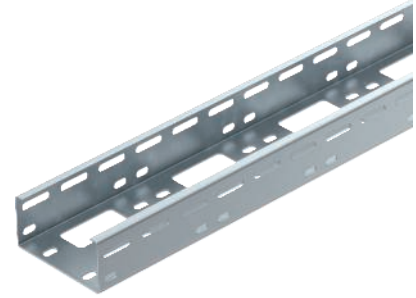
AZ channel system 100

Type	Plate		Pack.	Weight	Item No.
	Width	thickness			
	mm	mm	m	kg/100 m	
AZK A 100 FT	100	1.50	3	212.000	6076246

St Steel

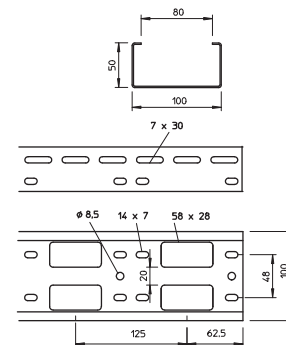
FT Hot-dip galvanised

AZ channel with a side height of 50 mm.



Type	Length	Width	Side
			height
	mm	mm	mm
AZK A 100 FT	3000	100	50

Dimensions

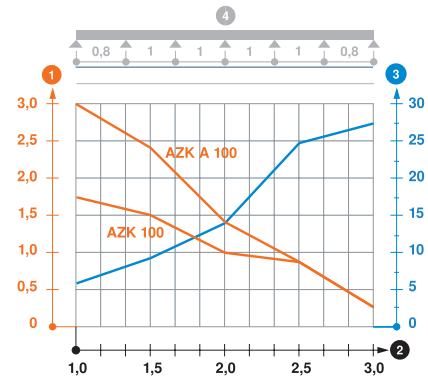


Load

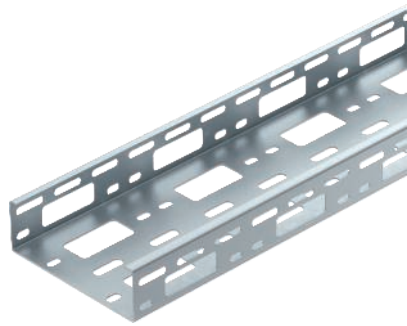
Type		1.0 m	1.5 m	2.0 m	2.5 m	3.0 m
		kN/m	kN/m	kN/m	kN/m	kN/m
AZK A 100 FT	3	2.4	1.4	0.8	0.25	

Load diagram, AZ small duct

- 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



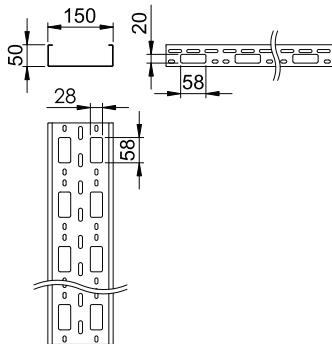
AZ channel system 150



Type	Plate		Pack. m	Weight kg/100 m	Item No.
	Width mm	thickness mm			
AZK 150 FS	150	1.50	3	231.670	6075320
AZK 150 FT	150	1.50	3	245.670	6075325
AZK 150 A2	150	1.50	6	231.660	6075330

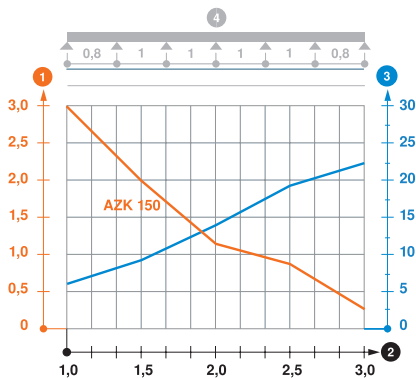
St Steel V2A Stainless steel, A2
FS Strip-galvanised FT Hot-dip galvanised
 AZ channel with a side height of 50 mm.

Dimensions



Type	Length mm	Width mm	Side height mm
AZK 150 FS	3000	150	50

Load



Type	1.0 m	1.5 m	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
AZK 150 FS	3	2	1.2	0.8	0.25

Load diagram, AZ small duct

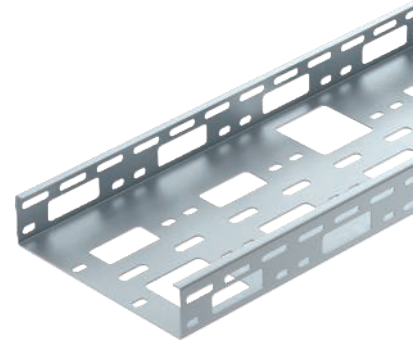
- 1 Permitted cable tray/ladder load in kN/m without man load
- 2 Support width in m
- 3 Rail bend in mm at permitted kN/m
- 4 Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width

AZ channel system 200

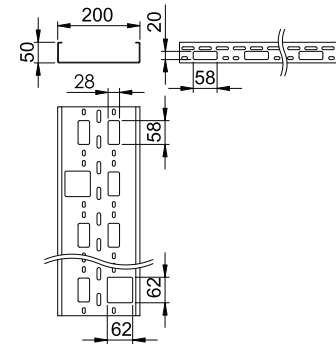
Type	Plate		Pack. m	Weight kg/100 m	Item No.
	Width mm	thickness mm			
AZK 200 FS	200	1.50	3	280.340	6075345
AZK 200 FT	200	1.50	3	296.000	6075350
AZK 200 A2	200	1.50	6	280.340	6075355

■ St Steel ■ V2A Stainless steel, A2
■ FS Strip-galvanised ■ FT Hot-dip galvanised

AZ channel with a side height of 50 mm.



Dimensions



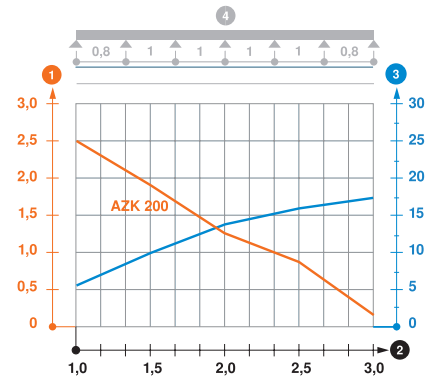
Type	Length mm	Width mm	Side
			height mm
AZK 200 FS	3000	200	50

Type	1.0 m	1.5 m	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
AZK 200 FS	2.5	1.9	1.3	0.8	0.3

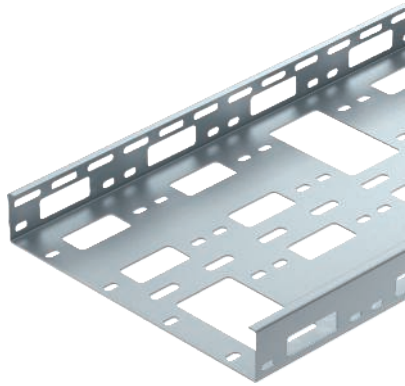
Load diagram, AZ small duct

- 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

Load



AZ channel system 300



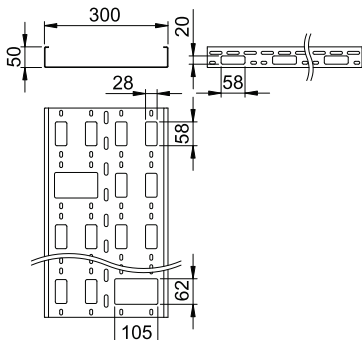
Type	Plate		Pack. m	Weight kg/100 m	Item No.
	Width mm	thickness mm			
AZK 300 FS	300	1.50	6	359.340	6075370
AZK 300 FT	300	1.50	6	381.000	6075375

St Steel

FS Strip-galvanised FT Hot-dip galvanised

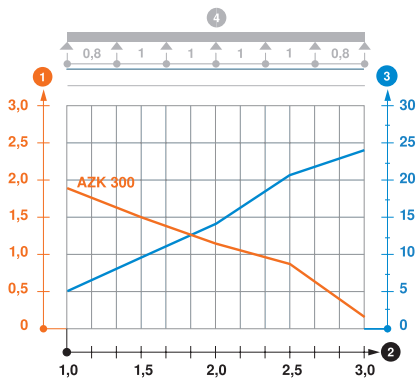
AZ channel with a side height of 50 mm.

Dimensions



Type	Length mm	Width mm	Side
			height mm
AZK 300 FS	3000	300	50

Load



Type	1.0 m	1.5 m	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
AZK 300 FS	1.9	1.5	1.2	0.8	0.3

Load diagram, AZ small duct

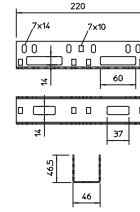
- 1 Permitted cable tray/ladder load in kN/m without man load
- 2 Support width in m
- 3 Rail bend in mm at permitted kN/m
- 4 Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width

Straight connector

Type	Pack.	Weight		Item No.
		pcs	kg/100 pcs.	
VF AZK 50 FS	25	27.100	6066615	
VF AZK 50 A2	25	27.400	6066629	
VF AZK 50 DD	25	27.100	6066623	

Sl Steel **V2A** Stainless steel, A2
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.

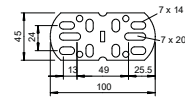


Straight and angle connector

Type	Pack.	Weight		Item No.
		pcs	kg/100 pcs.	
VF AZK FT	25	7.656	6066550	
VF AZK A2	10	7.746	6066569	

Sl Steel **V2A** Stainless steel, A2
FT Hot-dip galvanised

An adjustable connector can be created using two straight and angle connectors. Scope of delivery including bolts with combination nuts.
 Straight and angle connector for connection of AZ channels.

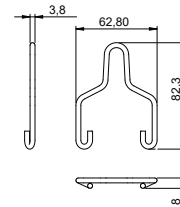


Suspension bracket

Type	F in kN	Pack.	Weight		Item No.
			pcs	kg/100 pcs.	
AHB 50 D4 FT 0.35	0.35	50	1.985	6066505	
AHB 50 D4 A4 0.35	0.35	50	1.985	6066508	

Sl Steel **V4A** Stainless steel, A4
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.

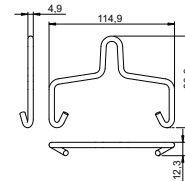


Suspension bracket

Type	F in kN	Pack.	Weight		Item No.
			pcs	kg/100 pcs.	
AHB 100 D5 FT 0.6	0.6	50	4.060	6066510	
AHB 100 D5 A4 0.6	0.6	50	4.060	6066514	

Sl Steel **V4A** Stainless steel, A4
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.

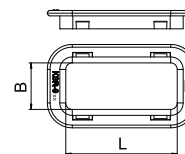


Cable protection ring

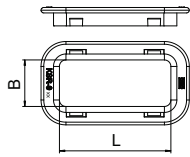
Type	Colour	for perforation mm	Pack.	Weight		Item No.
				pcs	kg/100 pcs.	
KSR-915 PE Light grey 28 x 58	Light grey	28 x 58	25	0.471	6066704	

PE Polyethylene

Cable protection ring for bottom perforations in AZ channels and luminaire support channels.



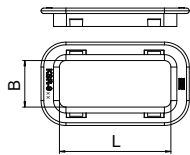
Cable protection ring



Type	Colour	for perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-910 PE	Light grey	20 x 58	25	0.415	6066712
PE Polyethylene					

Cable protection ring for bottom perforation in cable trays of type IKS and for side perforation in AZ channels and luminaire support channel.

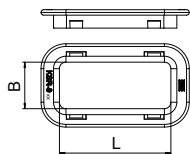
Cable protection ring



Type	Colour	for perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-920 PE	Light grey	62 x 62	25	0.669	6066696
PE Polyethylene					

Cable protection ring for bottom perforations in AZ channels and luminaire support channels.

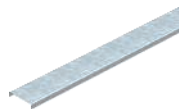
Cable protection ring



Type	Colour	for perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-925 PE	Light grey	105 x 62	25	0.878	6066688
PE Polyethylene					

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

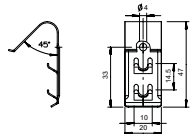
St Steel

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, universal



Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DKU A2	20	0.800	6065600

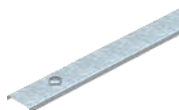
V2A Stainless steel, A2

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	55.000	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	254.770	6080910

St Steel

FS Strip-galvanised

Cover with turn buckle for AZ channel.

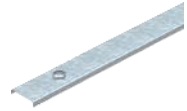
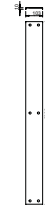
Cover with turn buckle

Type	Width mm	Length mm	Pack. m	Weight kg/100 m	Item No.
AZDMD 50 DD	53	3000	3	58.340	6080154
AZDMD 100 DD	103	3000	3	101.700	6080235
AZDMD 150 FT	153	3000	3	151.734	6080865
AZDMD 200 FT	203	3000	3	194.870	6080890
AZDMD 300 FT	303	3000	3	281.200	6080915

St Steel

FT Hot-dip galvanised DD Strip galvanised zinc/aluminium, double dip

Cover with turn buckle for AZ channel.



Cover with turn buckle

Type	Width mm	Length mm	Pack. m	Weight kg/100 m	Item No.
AZDMD 50 A2	53	3000	30	57.200	6080197
AZDMD 100 A2	103	3000	3	99.234	6080294
AZDMD 150 A2	153	3000	3	132.700	6080870
AZDMD 200 A2	203	3000	3	177.734	6080895

V2A Stainless steel, A2

Cover with turn buckle for AZ channel.



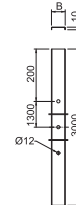
Cover for threaded rod installation

Type	Width mm	Dimension H mm	Length mm	Weight kg/100 m	Item No.
AZDG 50 FS	53	10	3000	55.000	6080960
AZDG 100 FS	103	10	3000	93.330	6080979

St Steel

FS Strip-galvanised

Perforated cover, for threaded rod mounting, for AZ small duct. To fasten the cover, the cover clamp DKU is required.



Turn buckle

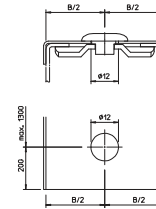
Type	For width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
AZDR 50 FT	50	20	2.000	6065112
AZDR 50 A2	50	10	2.800	6065309

St Steel

V2A Stainless steel, A2

FT Hot-dip galvanised

Turn buckle for installation in the cover for AZ channel and BKK system at a later date.



Turn buckle

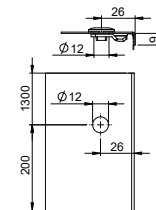
Type	For width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
AZDR 100 FT	100	20	1.100	6065104
AZDR 100 A2	100	10	2.600	6065317

St Steel

V2A Stainless steel, A2

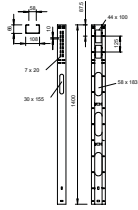
FT Hot-dip galvanised

Turn buckle for installation in the cover for AZ channel and BKK system at a later date.



Motor connection column

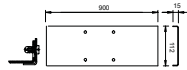
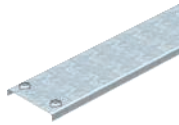
Motor connection column



Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MAS 140 10 FT	1400	1	505.000	6356311
St Steel				
FT Hot-dip galvanised				

Vertical motor connection column to supply electrical devices.

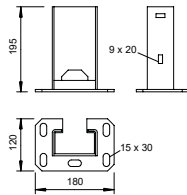
Cover for motor connection column



Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MASD 90 FT	900	1	160.000	6356915
St Steel				
FT Hot-dip galvanised				

Cover with turn buckle for motor connection column.

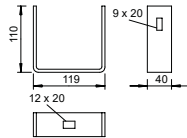
Column foot



Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SF 140 11 FT		1	200.000	6356397
St Steel				
FT Hot-dip galvanised				

Column foot for fastening of the motor connection column.

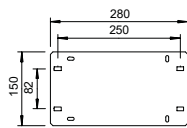
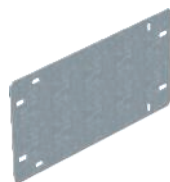
Mounting bracket



Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BF 140 10 FT		10	50.000	6356362
St Steel				
FT Hot-dip galvanised				

Mounting bracket for side fastening of motor connection columns to bases or on the wall.

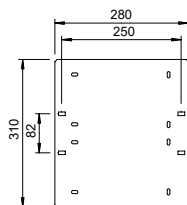
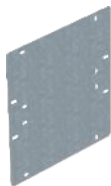
Device plate, GP 15



Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GP 15 28 FT		1	101.000	6357008
St Steel				
FT Hot-dip galvanised				

Mounting plate for fastening to motor connection column, type MAS 140/10.

Device plate, GP 31



Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GP 31 28 FT		1	210.000	6357016
St Steel				
FT Hot-dip galvanised				

Mounting plate for fastening to motor connection column, type MAS 140/10.

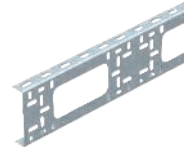
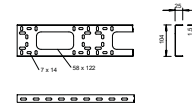
BKK basic profile, standard

Type	Plate			Pack. m	Weight		Item No.
	thickness mm	Dimension mm	Length mm		m	kg/100 m	
BKK 104 FT	1.50	104 x 25	3000	3	134.340	6070248	
BKK 104 A2	1.50	104 x 25	3000	3	126.667	6070779	
BKK 150 FT	1.50	150 x 25	3000	3	160.000	6070345	
BKK 200 FT	1.50	200 x 25	3000	3	212.000	6070442	
BKK 200 A2	1.50	200 x 25	3000	3	210.000	6070795	

St Steel **V2A** Stainless steel, A2

FT Hot-dip galvanised

BKK basic profile, perforated, for creation of individual cable trays.



Joint connector

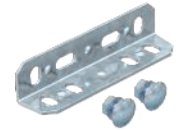
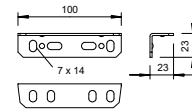
Type	Plate			Pack. pcs	Weight		Item No.
	thickness mm	Dimension mm	mm		kg/100	pcs.	
SSV FT	2.00	23 x 23 x 100		25	8.700	6066046	
SSV A2	2.00	23 x 23 x 100		25	9.800	6066054	

St Steel **V2A** Stainless steel, A2

FT Hot-dip galvanised

Including appropriate fastening material.

Joint connector for horizontal connection of BKK basic profiles.



Adjustable connector

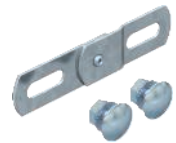
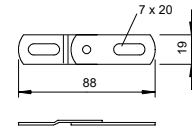
Type	Plate		Pack. pcs	Weight		Item No.
	thickness mm	Dimension mm		kg/100	pcs.	
SV DD	2.00	86 x 23	50	3.300	6066941	
SV A2	2.00	86 x 23	50	4.800	6066933	

St Steel **V2A** Stainless steel, A2

DD Strip galvanised zinc/aluminium, double dip

Including appropriate fastening material.

Adjustable connector for vertical bend connections of BKK systems.



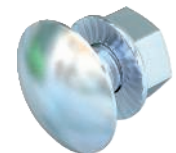
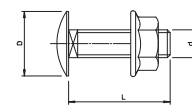
Truss-head bolt with flange nut

Type	Dimension mm	Dimen- sion L mm	Dimen- sion d mm	Dimen- sion D mm	Pack. pcs	Weight		Item No.
						kg/100	pcs.	
FRSB 6x12 F	M 6 x 12	12	6	13.5	100	0.990	6406122	
FRSB 6x16 F	M 6 x 16	16	6	13.5	100	0.800	6406157	
FRSB 6x20 F	M 6 x 20	20	6	13.5	100	1.000	6406203	
FRSB 6x12 A2	M 6 x 12	12	13.5	6	100	0.830	6406138	
FRSB 6x16 A2	M 6 x 16	16	13.5	6	100	0.800	6406189	
FRSB 6x20 A2	M 6 x 20	20	13.5	6	100	0.960	6406205	

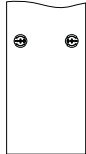
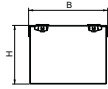
St Steel **V2A** Stainless steel, A2

F Hot-dip galvanised

Truss-head bolt with square neck including flange nut.



Single-compartment cable trunking, cover with turn buckle



Type	Dimen- sion B mm	Dimen- sion H mm	Dimen- sion L mm	Plate thickness mm	Pack. Weight		Item No.
					m	kg/100 m	
ST22	50	50	3000	0.80	150	160.000	6081150
ST32	75	50	3000	1.00	150	210.000	6081152
ST42	100	50	3000	1.00	150	260.000	6081154
ST62	150	50	3000	1.00	90	280.000	6081156
ST92	225	50	3000	1.20	60	560.000	6081158
ST122	300	50	3000	1.20	30	700.000	6081160
ST33	75	75	3000	1.00	150	240.000	6081170
ST43	100	75	3000	1.00	150	280.000	6081172
ST63	150	75	3000	1.20	90	450.000	6081174
ST93	225	75	3000	1.20	60	610.000	6081176
ST44	100	100	3000	1.20	150	390.000	6081186
ST64	150	100	3000	1.20	90	500.000	6081188
ST66	150	150	3000	1.20	54	590.000	6081198

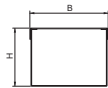
St Steel

FS Strip-galvanised

Cable trunking, single-compartment, complete with cover.

Connectors should be ordered separately and in the appropriate quantity.

Single-compartment cable trunking, cover screwed on



Type	Dimen- sion B mm	Dimen- sion H mm	Dimen- sion L mm	Plate thickness mm	Pack. Weight		Item No.
					m	kg/100 m	
STSF94 1.5	225	100	3000	1.50	60	746.670	6081190
STSF96 1.5	225	150	3000	1.50	36	866.670	6081200
STSF99 1.5	225	225	3000	1.50	24	1,046.670	6081204

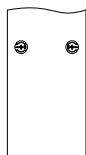
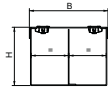
St Steel

FS Strip-galvanised

Cable trunking, single-compartment, complete with cover.

Connectors and the cover fastening set should be ordered separately and in the appropriate quantity.

Two-compartment cable trunking, cover with turn buckle



Type	Dimen- sion B mm	Dimen- sion H mm	Dimen- sion L mm	Plate thickness mm	Pack. Weight		Item No.
					m	kg/100 m	
ST22-2EC	50	50	3000	0.80	150	160.000	6081210
ST32-2EC	75	50	3000	1.00	150	240.000	6081212
ST42-2EC	100	50	3000	1.00	150	280.000	6081214
ST62-2EC	150	50	3000	1.00	90	380.000	6081216
ST92-2EC	225	50	3000	1.20	60	590.000	6081218
ST122-2EC	300	50	3000	1.20	30	740.000	6081220
ST33-2EC	75	75	3000	1.00	150	280.000	6081230
ST43-2EC	100	75	3000	1.00	150	310.000	6081232
ST63-2EC	150	75	3000	1.20	90	500.000	6081234
ST93-2EC	225	75	3000	1.20	60	660.000	6081236
ST44-2EC	100	100	3000	1.20	150	460.000	6081246
ST64-2EC	150	100	3000	1.20	90	570.000	6081248
ST66-2EC	150	150	3000	1.20	54	690.000	6081256

St Steel

FS Strip-galvanised

Cable trunking, two-compartment, complete with cover.

Connectors should be ordered separately and in the appropriate quantity.

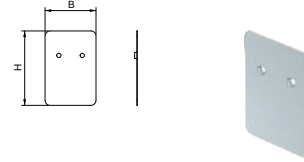
Connector

Type	Dimension B mm	Dimension H mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs	Item No.
SA2STC	50	50	1.00	2	4.500	6082140
SA3STC	50	75	1.00	2	6.000	6082142
SA4STC	50	100	1.00	2	9.500	6082144
SA6STC	50	150	1.00	2	13.000	6082148
SA9STC	50	225	1.00	2	16.000	6082150
SA12STC	50	300	1.00	2	23.000	6082156

Sl Steel

FS Strip-galvanised

Straight connector for the connection of cable trunking with a side height of 50, 75, 100, 150, 225 and 300 mm.



Single-compartment cable trunking, cover screwed on 50

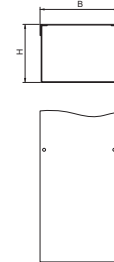
Type	Dimension B mm	Dimension H mm	Dimension L mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
STSF22 1.5	50	50	3000	1.50	150	278.670	6081151
STSF42 1.5	100	50	3000	1.50	150	396.340	6081155
STSF62 1.5	150	50	3000	1.50	90	513.340	6081157

Sl Steel

FS Strip-galvanised

Cable trunking, single-compartment, complete with cover.

Connectors and the cover fastening set should be ordered separately and in the appropriate quantity.



Single-compartment cable trunking, cover screwed on 75 mm

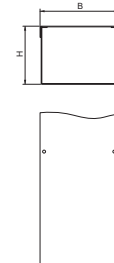
Type	Dimension B mm	Dimension H mm	Dimension L mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
STSF33 1.5	75	75	3000	1.50	150	393.000	6081171
STSF43 1.5	100	75	3000	1.50	150	451.670	6081173

Sl Steel

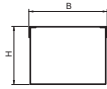
FS Strip-galvanised

Cable trunking, single-compartment, complete with cover.

Connectors and the cover fastening set should be ordered separately and in the appropriate quantity.



Single-compartment cable trunking, cover screwed on



Type	Dimen-	Dimen-	Dimen-	Plate	Pack.	Weight		Item No.
	sion B	sion H	sion L	thickness		m	kg/100 m	
STSF44 1.5	100	100	3000	1.50	150	490.000	6081187	
STSF64 1.5	150	100	3000	1.50	90	632.000	6081189	

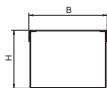
St Steel

FS Strip-galvanised

Cable trunking, single-compartment, complete with cover.

Connectors and the cover fastening set should be ordered separately and in the appropriate quantity.

Single-compartment cable trunking, cover screwed on



Type	Dimen-	Dimen-	Dimen-	Plate	Pack.	Weight		Item No.
	sion B	sion H	sion L	thickness		m	kg/100 m	
STSF66 1.5	150	150	3000	1.50	54	590.000	6081197	

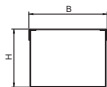
St Steel

FS Strip-galvanised

Cable trunking, single-compartment, complete with cover.

Connectors and the cover fastening set should be ordered separately and in the appropriate quantity.

Single-compartment cable trunking, cover screwed on 300 mm



Type	Dimen-	Dimen-	Dimen-	Plate	Pack.	Weight		Item No.
	sion B	sion H	sion L	thickness		m	kg/100 m	
STSF1212 1.5	300	300	3000	1.50	24	1,471.670	6081208	

St Steel

FS Strip-galvanised

Cable trunking, single-compartment, complete with cover.

Connectors and the cover fastening set should be ordered separately and in the appropriate quantity.

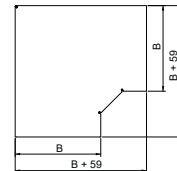
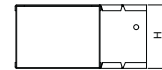
90° top bend with cover

Type	Dimension B mm	Dimension H mm	Plate thickness mm	Pack. pcs.	Weight	
					kg/100 pcs.	Item No.
SA2290T	50	50	1.00	40	40.000	6081270
SA3290T	75	50	1.00	28	53.000	6081272
SA4290T	100	50	1.00	18	64.000	6081274
SA6290T	150	50	1.00	20	95.000	6081276
SA9290T	225	50	1.00	10	175.000	6081278
SA12290T	300	50	1.00	7	309.000	6081280
SA3390T	75	75	1.00	30	61.000	6081290
SA4390T	100	75	1.00	12	75.000	6081292
SA6390T	150	75	1.00	12	108.000	6081294
SA9390T	225	75	1.00	7	188.000	6081296
SA4490T	100	100	1.00	20	88.000	6081306
SA6490T	150	100	1.00	8	123.000	6081308
SA6690T	150	150	1.00	8	152.000	6081316

St Steel

FS Strip-galvanised

90° top bend with cover, for use on single-compartment cable trunking.



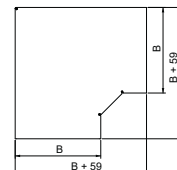
90° top bend with cover

Type	Dimension B mm	Dimension H mm	Plate thickness mm	Pack. pcs.	Weight	
					kg/100 pcs.	Item No.
SA9490T	225	100	1.00	4	230.000	6081310
SA9690T	225	150	1.00	3	259.000	6081318
SA9990T	225	225	1.00	2	340.000	6081322

St Steel

FS Strip-galvanised

90° top bend with cover, for use on single-compartment cable trunking.



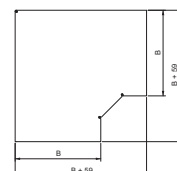
90° top bend with cover, two-compartment

Type	Dimension B mm	Dimension H mm	Plate thickness mm	Pack. pcs.	Weight	
					kg/100 pcs.	Item No.
SA3390T-2EC	75	75	1.00	12	61.000	6082212
SA6390T-2EC	150	75	1.00	12	123.000	6082216

St Steel

FS Strip-galvanised

90° top cover bend, for use on single-compartment cable trunking. Version with a 75 mm side height.



90° top bend with cover

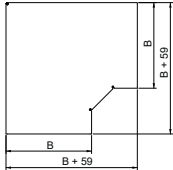
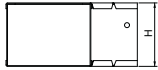


Type	Dimen- sion B mm	Dimen- sion H mm	Plate thickness mm	Weight		Item No.
				Pack. pcs	kg/100 pcs.	
SA2290T 1.5	50	50	1.50	40	60.000	6081271

St Steel

FS Strip-galvanised

90° bend with top cover, for use on single-compartment cable trunking.



90° internal bend with cover

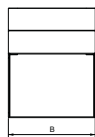
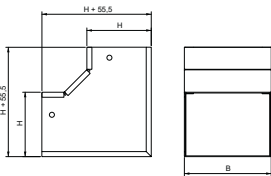


Type	Dimen- sion B mm	Dimen- sion H mm	Plate thickness mm	Weight		Item No.
				Pack. pcs	kg/100 pcs.	
SA2290I	50	50	1.00	40	38.000	6081330
SA3290I	75	50	1.00	33	43.000	6081332
SA4290I	100	50	1.00	22	49.000	6081334
SA6290I	150	50	1.00	12	60.000	6081336
SA9290I	225	50	1.00	16	167.000	6081338
SA12290I	300	50	1.00	12	302.000	6081340
SA3390I	75	75	1.00	30	58.000	6081350
SA4390I	100	75	1.00	12	67.000	6081352
SA6390I	150	75	1.00	10	77.000	6081354
SA9390I	225	75	1.00	12	184.000	6081356
SA4490I	100	100	1.00	20	85.000	6081366
SA6490I	150	100	1.00	12	99.000	6081368
SA9490I	225	100	1.00	5	145.000	6081370
SA6690I	150	150	1.00	8	148.000	6081376

St Steel

FS Strip-galvanised

90° internal bend with cover, for use on single-compartment cable trunking.



90° bend with cover, internal

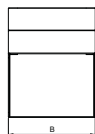
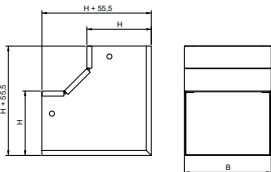


Type	Dimen- sion B mm	Dimen- sion H mm	Plate thickness mm	Weight		Item No.
				Pack. pcs	kg/100 pcs.	
SA4490I 1.5	100	100	1.50	18	126.700	6081367

St Steel

FS Strip-galvanised

90° bend with internal cover, for use on single-compartment cable trunking.



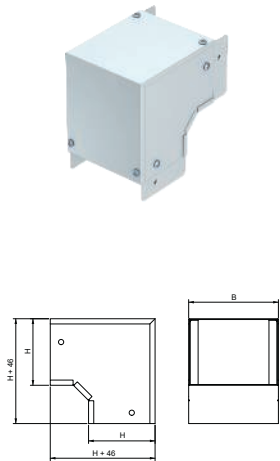
90° external bend with cover

Type	Dimension B mm	Dimension H mm	Plate thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
SA2290E	50	50	1.00	40	36.000	6081390
SA3290E	75	50	1.00	36	41.000	6081392
SA4290E	100	50	1.00	28	46.000	6081394
SA6290E	150	50	1.00	18	55.000	6081396
SA9290E	225	50	1.00	18	165.000	6081398
SA12290E	300	50	1.00	15	299.000	6081400
SA3390E	75	75	1.00	30	56.000	6081410
SA4390E	100	75	1.00	12	61.000	6081412
SA6390E	150	75	1.00	10	73.000	6081414
SA9390E	225	75	1.00	13	183.000	6081416
SA4490E	100	100	1.00	24	83.000	6081426
SA6490E	150	100	1.00	12	95.000	6081428
SA9490E	225	100	1.00	6	125.500	6081430
SA6690E	150	150	1.00	8	143.000	6081436

St Steel

FS Strip-galvanised

90° external bend with cover, for use on single-compartment cable trunking.



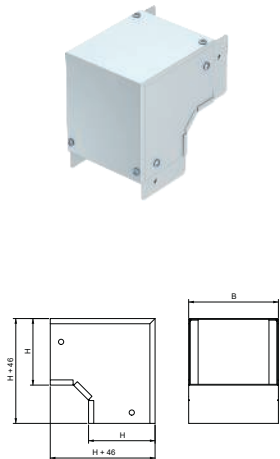
90° bend with cover, external

Type	Dimension B mm	Dimension H mm	Plate thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
SA4490E 1.5	100	100	1.50	21	121.500	6081427

St Steel

FS Strip-galvanised

90° bend with external cover, for use on single-compartment cable trunking.



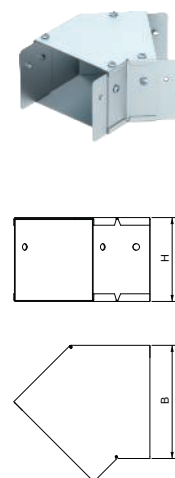
45° top bend with cover

Type	Dimension B mm	Dimension H mm	Plate thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
SA2245T	50	50	1.00	90	24.000	6081450
SA3245T	75	50	1.00	60	30.000	6081452
SA4245T	100	50	1.00	36	36.000	6081454
SA6245T	150	50	1.00	20	49.000	6081456
SA9245T	225	50	1.00	20	96.000	6081458
SA12245T	300	50	1.00	14	144.000	6081460
SA3345T	75	75	1.00	36	37.000	6081470
SA4345T	100	75	1.00	24	43.000	6081472
SA6345T	150	75	1.00	12	57.000	6081474
SA9345T	225	75	1.00	15	10.000	6081476
SA4445T	100	100	1.00	18	53.000	6081486
SA6445T	150	100	1.00	20	87.000	6081488
SA9445T	225	100	1.00	8	113.000	6081490
SA6645T	150	150	1.00	12	88.000	6081496

St Steel

FS Strip-galvanised

45° top bend with cover, for use on single-compartment cable trunking.



45° bend with top cover

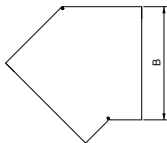
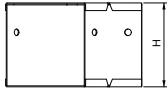


Type	Dimension B mm	Dimension H mm	Plate thickness mm	Weight		Item No.
				Pack. pcs	kg/100 pcs.	
SA4445T 1.5	100	100	1.50	36	77.200	6081487

St Steel

FS Strip-galvanised

45° bend with top cover, for use on single-compartment cable trunking.



45° internal bend with cover

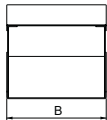
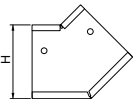


Type	Dimension B mm	Dimension H mm	Plate thickness mm	Weight		Item No.
				Pack. pcs	kg/100 pcs.	
SA2245I	50	50	1.00	50	24.000	6081510
SA3245I	75	50	1.00	60	27.000	6081512
SA4245I	100	50	1.00	45	30.000	6081514
SA6245I	150	50	1.00	40	35.000	6081516
SA9245I	225	50	1.00	20	103.000	6081518
SA12245I	300	50	1.00	19	239.000	6081520
SA3345I	75	75	1.00	50	36.000	6081530
SA4345I	100	75	1.00	22	39.000	6081532
SA6345I	150	75	1.00	18	45.000	6081534
SA9345I	225	75	1.00	12	123.000	6081536
SA4445I	100	100	1.00	30	52.000	6081546
SA6445I	150	100	1.00	24	59.000	6081548
SA9445I	225	100	1.00	12	76.000	6081550
SA6645I	150	150	1.00	12	85.000	6081556

St Steel

FS Strip-galvanised

45° internal bend with cover, for use on single-compartment cable trunking.



45° external bend with cover

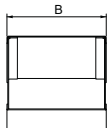
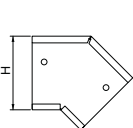


Type	Dimension B mm	Dimension H mm	Plate thickness mm	Weight		Item No.
				Pack. pcs	kg/100 pcs.	
SA2245E	50	50	1.00	50	25.000	6081570
SA3245E	75	50	1.00	60	28.000	6081572
SA4245E	100	50	1.00	45	31.000	6081574
SA6245E	150	50	1.00	40	37.000	6081576
SA9245E	225	50	1.00	20	103.000	6081578
SA12245E	300	50	1.00	19	238.000	6081580
SA3345E	75	75	1.00	50	37.000	6081590
SA4345E	100	75	1.00	24	40.000	6081592
SA6345E	150	75	1.00	18	47.000	6081594
SA9345E	225	75	1.00	12	122.000	6081596
SA4445E	100	100	1.00	30	53.000	6081606
SA6445E	150	100	1.00	24	61.000	6081608
SA9445E	225	100	1.00	12	77.500	6081610
SA6645E	150	150	1.00	12	90.000	6081616

St Steel

FS Strip-galvanised

45° external bend with cover, for use on single-compartment cable trunking.



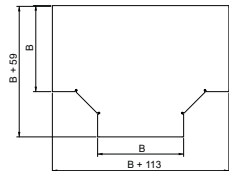
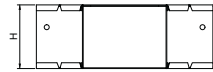
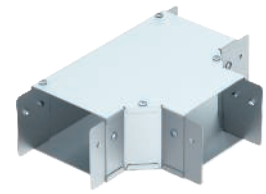
Top tee with cover

Type	Dimen- sion B mm	Dimen- sion H mm	Plate thickness mm	Pack. pcs.	Weight	
					kg/100 pcs.	Item No.
SA22TTC	50	50	1.00	40	52.000	6081630
SA32TTC	75	50	1.00	20	63.000	6081632
SA42TTC	100	50	1.00	12	77.000	6081634
SA62TTC	150	50	1.00	18	109.000	6081636
SA92TTC	225	50	1.00	9	185.000	6081638
SA122TTC	300	50	1.00	6	291.000	6081640
SA33TTC	75	75	1.00	30	76.000	6081650
SA43TTC	100	75	1.00	22	89.000	6081652
SA63TTC	150	75	1.00	12	123.000	6081654
SA93TTC	225	75	1.00	7	199.000	6081656
SA44TTC	100	100	1.00	18	106.000	6081666
SA64TTC	150	100	1.00	8	140.000	6081668
SA94TTC	225	100	1.00	4	237.500	6081670
SA66TTC	150	150	1.00	4	171.000	6081676

St Steel

FS Strip-galvanised

Top tee with cover, for use on single-compartment cable trunking.

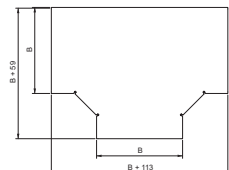
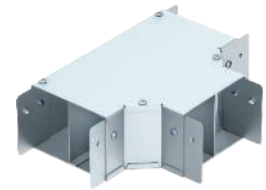


Tee piece with top cover, two-compartment

Type	Dimen- sion B mm	Dimen- sion H mm	Plate thickness mm	Pack. pcs.	Weight	
					kg/100 pcs.	Item No.
SA33TTC-2EC	75	75	1.00	12	76.000	6082464
SA63TTC-2EC	150	75	1.00	12	148.000	6082468

St Steel

FS Strip-galvanised



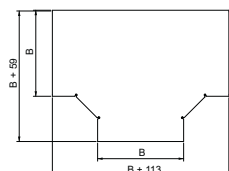
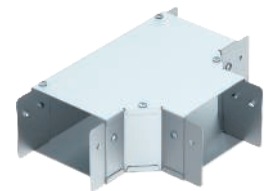
Tee with top cover

Type	Dimen- sion B mm	Dimen- sion H mm	Plate thickness mm	Pack. pcs.	Weight	
					kg/100 pcs.	Item No.
SA22TTC 1.5	50	50		40	83.000	6081631

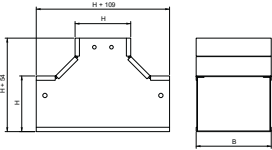
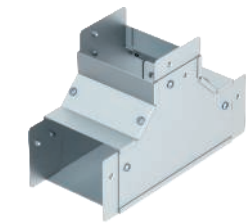
St Steel

FS Strip-galvanised

Tee with top cover, for use on single-compartment cable trunking.



Internal tee with cover



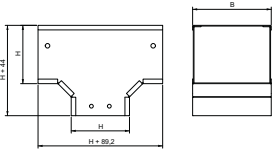
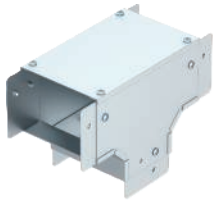
Type	Dimension B mm	Dimension H mm	Plate thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
SA22TIN	50	50	1.00	33	50.000	6081690
SA32TIN	75	50	1.00	40	56.000	6081692
SA42TIN	100	50	1.00	13	62.000	6081694
SA62TIN	150	50	1.00	22	74.000	6081696
SA92TIN	225	50	1.00	16	184.000	6081698
SA122TIN	300	50	1.00	12	289.000	6081700
SA33TIN	75	75	1.00	12	73.000	6081710
SA43TIN	100	75	1.00	18	80.000	6081712
SA63TIN	150	75	1.00	12	97.000	6081714
SA93TIN	225	75	1.00	8	197.000	6081716
SA44TIN	100	100	1.00	14	102.000	6081726
SA64TIN	150	100	1.00	8	118.000	6081728
SA66TIN	150	150	1.00	4	173.000	6081736

St Steel

FS Strip-galvanised

Internal tee with cover, for use on single compartment cable trunking.

External tee with cover



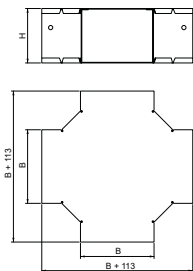
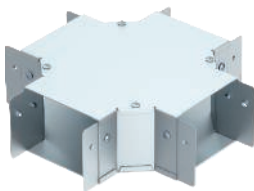
Type	Dimension B mm	Dimension H mm	Plate thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
SA22TEX	50	50	1.00	42	46.000	6081750
SA32TEX	75	50	1.00	24	50.000	6081752
SA42TEX	100	50	1.00	18	59.000	6081754
SA62TEX	150	50	1.00	12	65.000	6081756
SA92TEX	225	50	1.00	16	182.000	6081758
SA122TEX	300	50	1.00	10	288.000	6081760
SA33TEX	75	75	1.00	12	66.000	6081770
SA43TEX	100	75	1.00	24	72.000	6081772
SA63TEX	150	75	1.00	12	83.000	6081774
SA93TEX	225	75	1.00	9	195.000	6081776
SA44TEX	100	100	1.00	18	83.000	6081786
SA64TEX	150	100	1.00	12	108.000	6081788
SA66TEX	150	150	1.00	4	158.000	6081796

St Steel

FS Strip-galvanised

External tee with cover, for use on single-compartment cable trunking.

Cross-over



Type	Dimension B mm	Dimension H mm	Plate thickness mm	Pack. pcs.	Weight kg/100 pcs.	Item No.
SA224WI	50	50	1.00	16	53.000	6081810
SA324WI	75	50	1.00	12	74.000	6081812
SA424WI	100	50	1.00	19	90.000	6081814
SA624WI	150	50	1.00	11	122.000	6081816
SA924WI	225	50	1.00	6	203.000	6081818
SA1224WI	300	50	1.00	3	294.000	6081820
SA334WI	75	75	1.00	8	85.000	6081830
SA434WI	100	75	1.00	12	102.000	6081832
SA634WI	150	75	1.00	8	104.000	6081834
SA934WI	225	75	1.00	5	227.000	6081836
SA444WI	100	100	1.00	9	114.000	6081846
SA644WI	150	100	1.00	5	154.000	6081848
SA944WI	225	100	1.00	5	250.000	6081850
SA664WI	150	150	1.00	3	192.000	6081856

St Steel

FS Strip-galvanised

Cross-over, for use on single-compartment cable trunking.

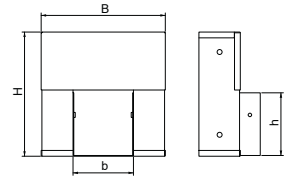
Reduction, side height 50, 75, 100 and 150 mm

Type	Dimension B mm	Dimension H mm	Dimension h mm	Dimension b mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SA33-22RE	75	75	50	50	1.00	66	24.000	6081990
SA43-22RE	100	50	50	75	1.00	5	30.000	6081992
SA44-22RE	100	100	50	50	1.00	39	36.000	6082000
SA44-32RE	100	100	75	50	1.00	39	32.000	6082002
SA44-33RE	100	100	75	75	1.00	39	32.500	6082004
SA44-42RE	100	100	100	50	1.00	39	31.000	6082006
SA66-22RE	150	150	50	50	1.00	36	49.000	6082010
SA66-32RE	150	150	75	50	1.00	36	49.000	6082012
SA66-42RE	150	150	100	50	1.00	36	51.000	6082014
SA66-33RE	150	150	75	75	1.00	36	50.000	6082016
SA66-43RE	150	150	100	75	1.00	36	51.000	6082018
SA66-44RE	150	150	100	100	1.00	36	52.000	6082020
SA94-44RE	225	100	100	100	1.00	15	63.000	6082022
SA99-33RE	225	225	75	75	1.00	7	114.000	6082030
SA99-44RE	225	225	100	100	1.00	7	101.000	6082032
SA99-66RE	225	225	150	150	1.00	7	64.000	6082034
SA126-44RE	300	100	100	150	1.00	5	105.000	6082040
SA1212-44RE	300	300	100	100	1.00	5	176.000	6082042
SA1212-66RE	300	300	150	150	1.00	5	149.000	6082044
SA1212-99RE	300	300	225	225	1.00	5	131.000	6082048

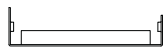
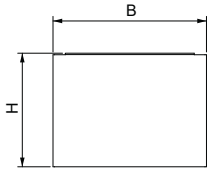
St Steel

FS Strip-galvanised

Reducer for use on single and two-compartment cable trunking. Version with side heights 50, 75, 100 and 150 mm.



End cap



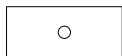
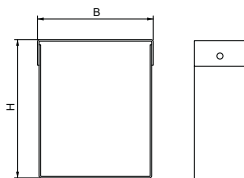
Type	Dimension H mm	Pack. pcs	Weight		Item No.
			kg/100 pcs.		
SA22SE	50	400	4.000		6081870
SA32SE	50	60	5.000		6081872
SA42SE	50	386	6.000		6081874
SA62SE	50	50	6.000		6081876
SA92SE	50	30	11.000		6081878
SA122SE	50	24	14.000		6081880
SA33SE	75	200	6.000		6081890
SA43SE	75	48	7.000		6081892
SA63SE	75	28	10.000		6081894
SA93SE	75	24	16.000		6081896
SA44SE	100	200	10.000		6081906
SA64SE	100	18	14.000		6081908
SA94SE	100	5	30.000		6081910
SA66SE	150	60	21.000		6081916

St Steel

FS Strip-galvanised

End cap, for use on single and two-compartment cable trunking.

Hanger



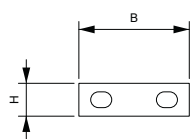
Type	Dimension H mm	Dimension B mm	Pack. pcs	Weight		Item No.
				kg/100 pcs.		
SA22HA	50	50	100	20.000		6082102
SA92HA	50	225	18	52.000		6082110
SA122HA	50	300	15	64.500		6082112
SA33HA	75	75	50	26.500		6082104
SA93HA	75	225	15	55.500		6082114
SA44HA	100	100	30	31.000		6082106
SA66HA	150	150	20	44.000		6082108

St Steel

FS Strip-galvanised

Trunking hanger.

Earth link



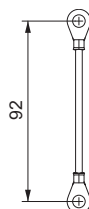
Type	Dimension B mm	Dimension H mm	Plate thickness mm	Pack. pcs	Weight		Item No.
					kg/100 pcs.		
SAELK	42	12.5	1.00	10	0.300		6082120

Cu Copper

N Nickel-plated

Earth connection for the inclusion of the cable trunking system in the equipotential bonding.

Earthing bridge



Type	Dimension L mm	Cross-section mm ²	Pack. pcs	Weight		Item No.
				kg/100 pcs.		
SAEB	100	4	100	0.500		6082124

Cu Copper

N Nickel-plated

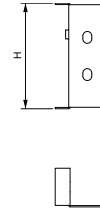
Type	Dimension H mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SA20F	50	1.00	80	4.000	6081930
SA30F	75	1.00	70	5.000	6081950
SA40F	100	1.00	100	8.000	6081966
SA60F	150	1.00	35	12.000	6081976

St Steel

FS Strip-galvanised

Outlet flange

Outlet flange

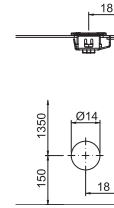


Type	Dimension B mm	Dimension H mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SASLF	16.8	10.5	10	0.100	6082130

Zn Die-cast zinc

Turn buckle for additional installation or installation at a later date.

Turn buckle



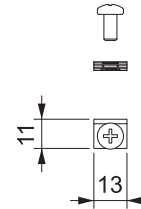
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
SALFK	1	0.410	6082122

St Steel

FS Strip-galvanised

Fastening kit for trunking cover with bolt. The set contains 8 clamping pieces and 8 bolts.

Fastening kit

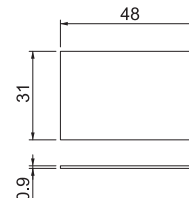


Type	Pack. pcs	Weight kg/100 pcs.	Item No.
SA2CR	10	18.000	6082158

St Steel

FS Strip-galvanised

Cover clamp SA2

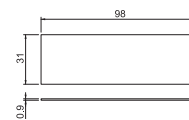


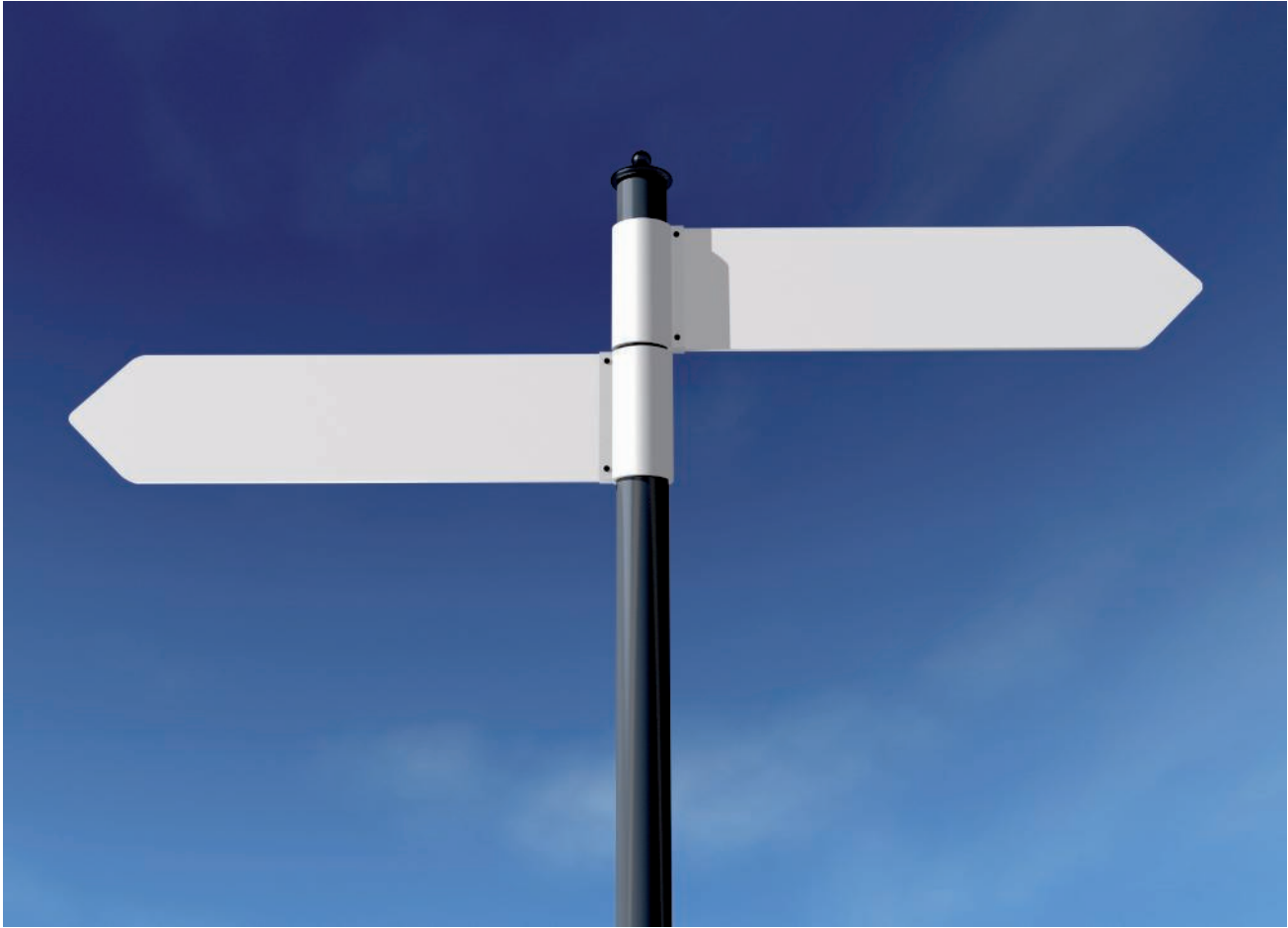
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
SA4CR	10	34.000	6082162

St Steel




FS Strip-galvanised

Cover clamp SA4





Directories

 1 2	Numeric directory	502
 903 904	Type listing	517
	Terms and conditions of sale and delivery	560

GTIN	Art. no.	Page	GTIN	Art. no.	Page	GTIN	Art. no.	Page	GTIN	Art. no.	Page	GTIN	Art. no.	Page
5038238	/100 pc. 1104241	89	5697961	price/100 1122479	94	5698432	price/100 1123025	94	5062714	/100 pc. 1156004	401	5067870	/100 pc. 1163582	393
5038290	1104268	89	5697978	1122481	94		/100 pc. 1123121	98	5062776	1156012	401	5067931	1163647	393
5038351	1104284	89	5050735	1122483	94	5939214	1123121	98	5062837	1156020	401	5067993	1163701	393
5836353	1104292	89	5050742	1122487	94	5939276	1123191	95	5062899	1156039	401			
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5462491	1121472	91	5698265	1122988										

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5076452	1181211	406	5441731	1199757	410	5849728	3156126	111	5946267	3403147	110	6571505	3498314	114
5076513	1181289	406	5442035	1199846	409	5255857	3156494	107	5944393	3403155	110		/100 pc.	
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5076636	1181408	406	5442158	1199862	409	5256038	3156524	107	5868330	3403165	110	6411825	3498322	117
5076698	1181467	406	5442219	1199870	409	5256090	3156605	338	5946298	3403175	110	6411832	3498326	117
5076759	1181521	406	5442271	1199889	409				5946304	3403177	110	6411849	3498328	117
5076810	1181580	406	5442332	1199897	409	5256212	3158209	107				6411856	3498334	117
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5435495	1183389	400	5138372	1470175	422	5257356	3160750	108				6429509	3498372	118
5435556	1183397	400	5138433	1470264	422	5618423	3160752	108	5306979	3462862	422	6429516	3498374	118
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2056 12 FT	5064459	1160125	394
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2056 16 ALU	5077350	1183214	399
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2056 2 16 FT	5065418	1161164	397
2056 2 22 ALU	5435617	1183400	400
2056 2 22 FT	5065470	1161229	397
2056 2 28 ALU	5435679	1183419	400
2056 2 28 FT	5065531	1161288	397
2056 2 34 ALU	5435730	1183427	400
2056 2 34 FT	5065593	1161342	397
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AZK 150 FS	5811121	6075320	480	BFKD 153 44 FT	6609215	6003885	87
AZK 150 FT	5811138	6075325	480				
AZK 200 A2	5811206	6075355	481	BID 90 200 FT	6445691	6239153	341
AZK 200 FS	5811183	6075345	481	BID 90 300 FT	6445752	6239161	341
AZK 200 FT	5811190	6075350	481	BID 90 400 FT	6445813	6239188	341
AZK 300 FS	5811244	6075370	482	BID 90 500 FT	6445875	6239196	341
AZK 300 FT	5811251	6075375	482	BID 90 600 FT	6445936	6239218	341
AZK A 050 FT	6069316	6076149	477				
AZK A 100 FT	6069378	6076246	479	BKK 104 A2	6068418	6070779	487
		/pc.		BKK 104 FT	6068234	6070248	487
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BC SGR A2	6434152	6016668	285	BKK 200 FT	6068357	6070442	487
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BEB 050 FS	6231010	7083041	236	BKRS 1060 FS	6341917	6062010	252
BEB 100 A2	6232031	7084013	177	BKRS 1110 FS	6147007	6061981	255
BEB 100 A4	5866336	7084141	177	BKRS 1120 FS	6147038	6061983	255
BEB 100 DD	6983728	7083618	177	BKRS 1130 FS	6147045	6061985	255
BEB 100 DD	6983728	7083618	236	BKRS 1140 FS	6147052	6061987	255
BEB 100 FS	6231072	7083106	177	BKRS 1150 FS	6147069	6061989	255
BEB 100 FS	6231072	7083106	236	BKRS 1160 FS	6147090	6061991	255
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BZ 10-75-95/155	6571451	3498345	115	CML3518P0300FS	5038351	1104284	89
BZ 12-10/85 s	6571437	3498414	116	CML3518P0400FS	5836353	1104292	89
BZ 12-15-35/110	6411894	3498350	115	CML3518P0500FS	5038412	1104306	89
BZ 12-160/255	6571482	3498358	115	CML3518P0600FS	5036678	1104310	89
BZ 12-85-105/180	6571468	3498354	115	CML3518P0700FS	5036739	1104315	89
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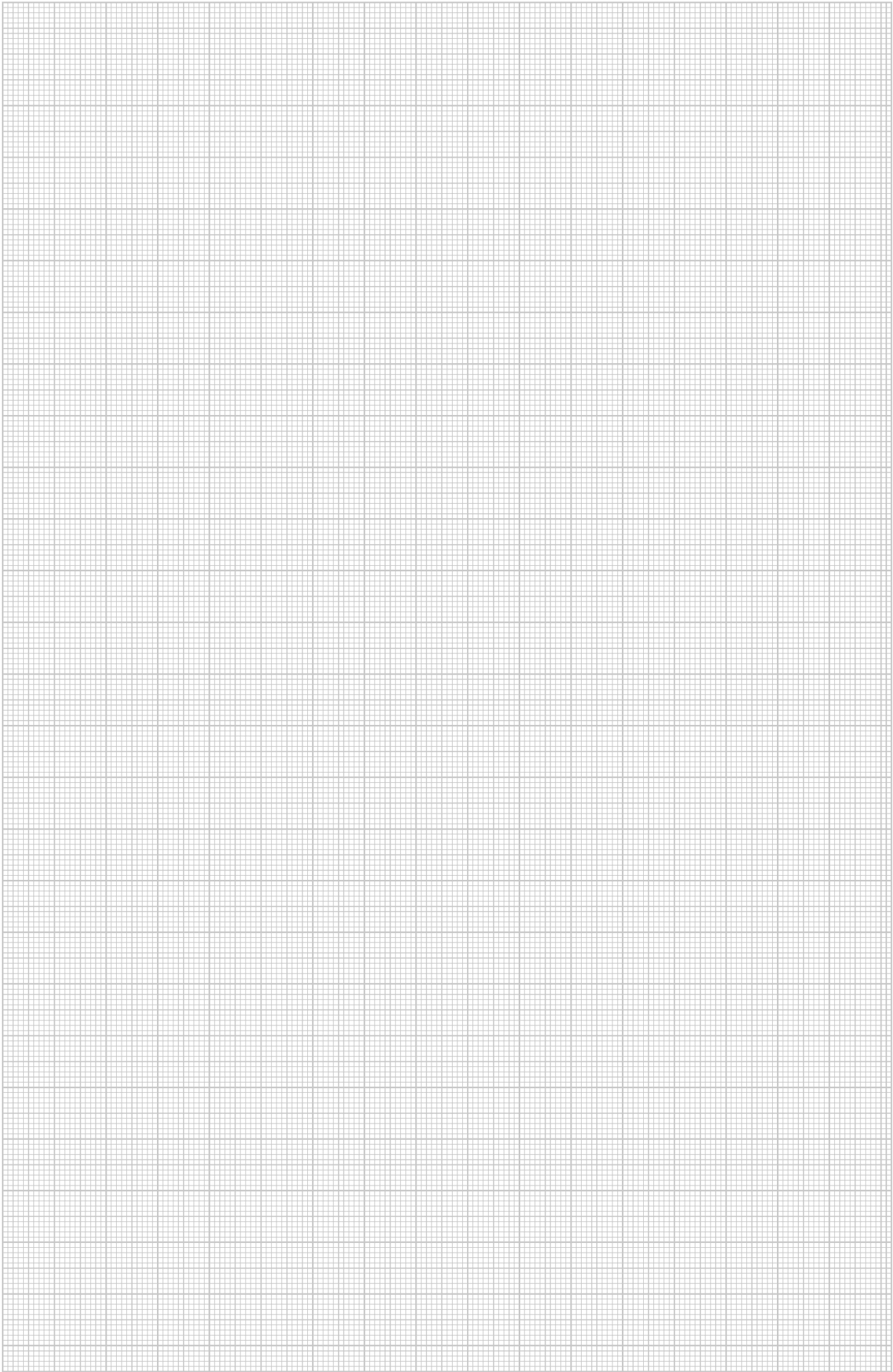
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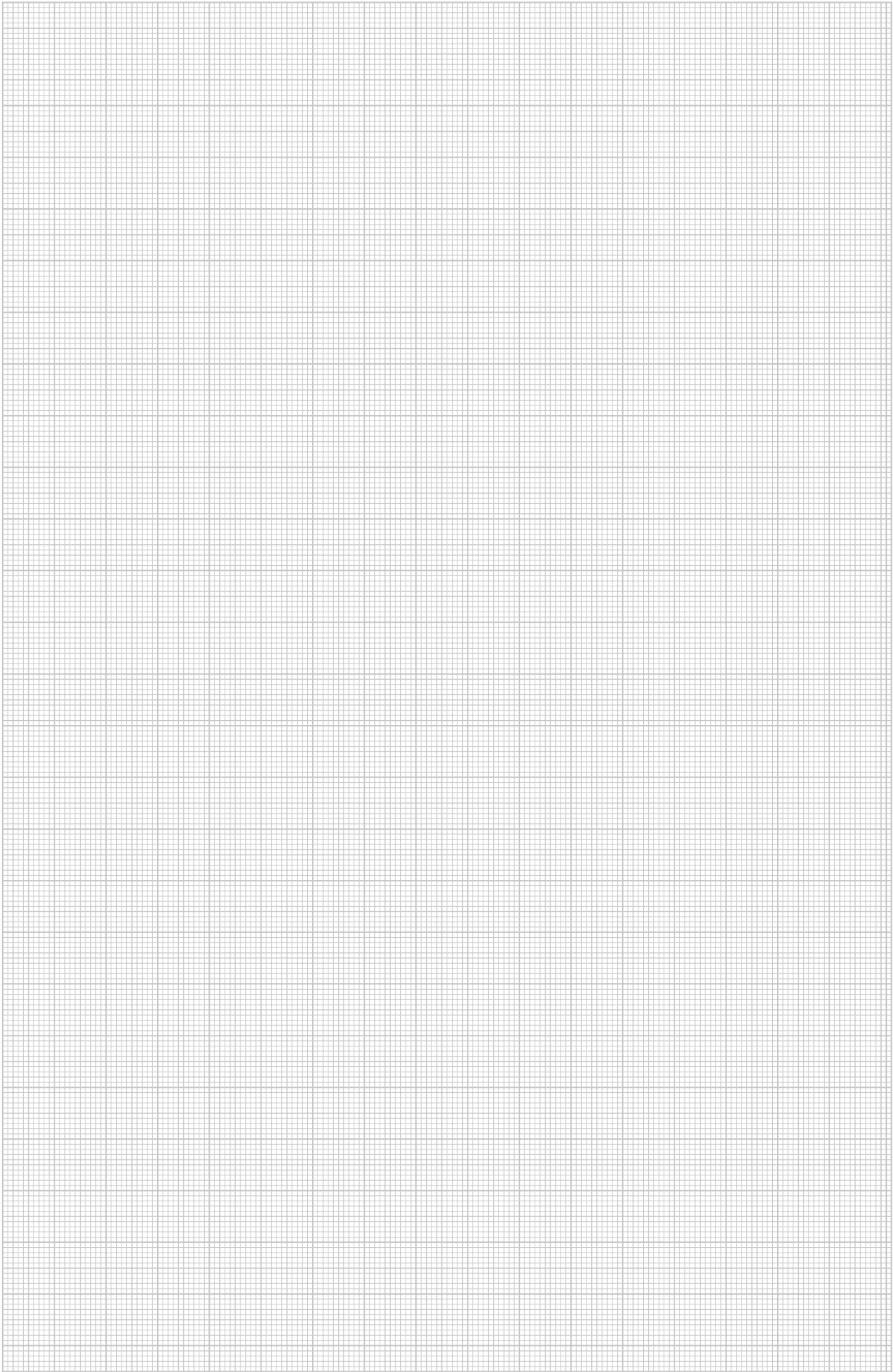
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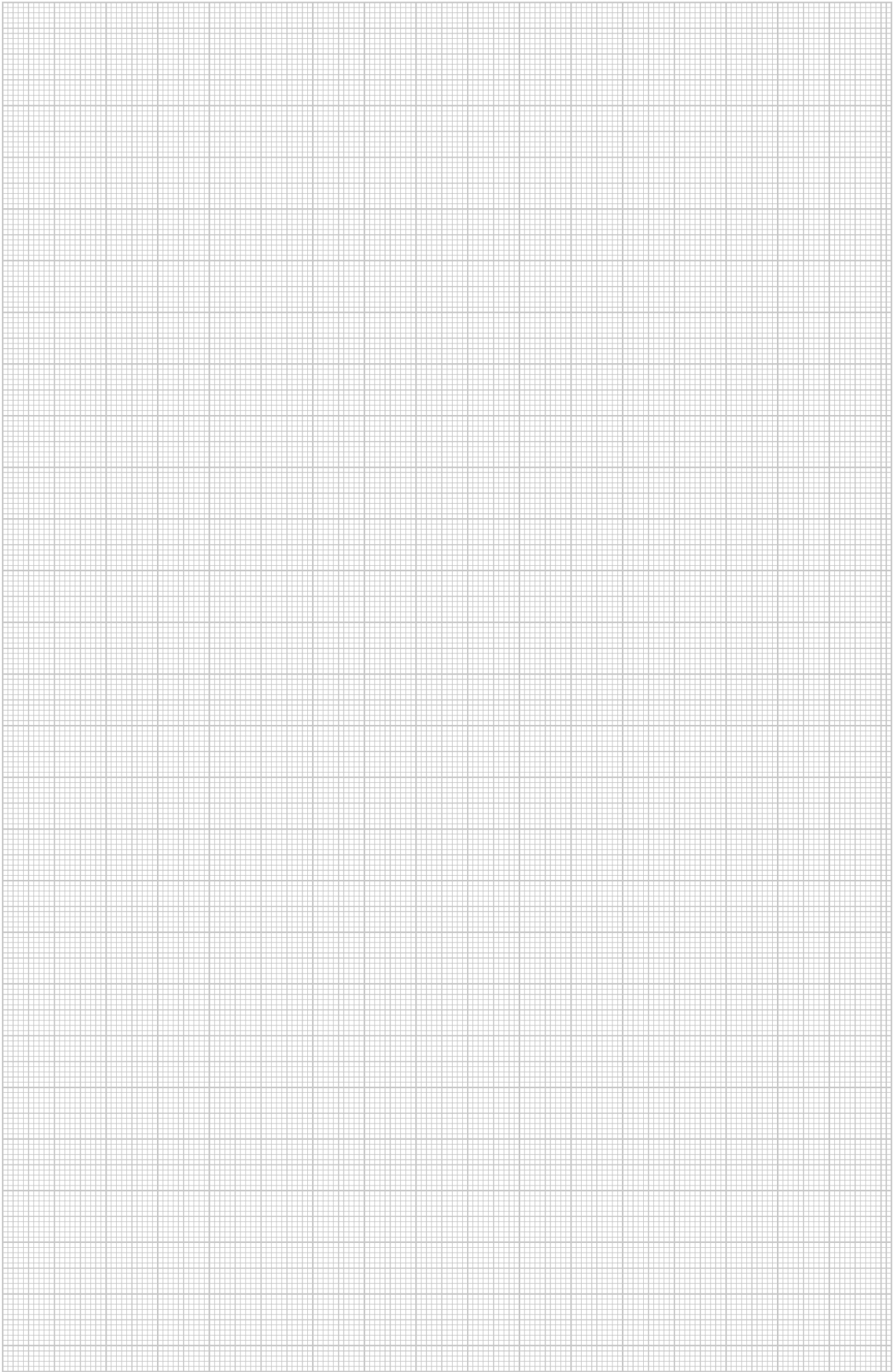
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Sale and delivery conditions

of the companies **OBO Bettermann Vertrieb Deutschland GmbH & Co. KG, OBO Bettermann Projekt und Systemtechnik GmbH, OBO Bettermann Export GmbH & Co. KG, OBTEC GmbH, Flugplatzgesellschaft Arnsberg – Minden mbH, FAM Holding GmbH, OBO JET-CHARTER GmbH, Grundstücksverwaltung Bettermann GmbH & Co. KG, OBO Bettermann Produktion Deutschland GmbH & Co. KG as well as OBO Bettermann Holding GmbH & Co. KG**

§ 1 General

(1.1) The general terms and conditions of business given below (hereinafter referred to as "AGB" or "VLB") are applicable in the respectively latest version for all contracts signed and to be signed in future between the OBO Bettermann Vertrieb Deutschland GmbH & Co. KG, OBO Bettermann Projekt und Systemtechnik GmbH, OBO Bettermann Export GmbH & Co. KG, OBTEC GmbH, Flugplatzgesellschaft Arnsberg – Minden mbH, FAM Holding GmbH, OBO JET-CHARTER GmbH, Grundstücksverwaltung Bettermann GmbH & Co. KG, OBO Bettermann Produktion Deutschland GmbH & Co. KG, as well as the OBO Bettermann Holding GmbH & Co. KG (hereinafter referred to as "sellers") and the respective (possibly future) contractual partners (hereinafter referred to as "Customers") regarding the sale and / or delivery of goods, as far as these are used against entrepreneurs, legal entities under public law and special assets governed by public law as defined in § 310 I BGB.

(1.2) It is pointed out explicitly that the first and foremost condition for the application of these conditions of sale is that the contract is signed with the OBO Bettermann Projekt und Systemtechnik GmbH. The additional conditions for plant engineering in this case are attached with the offer and with the acceptance of the offer and can also be viewed and stored in the Internet at http://cdn.obo.de/mailings/downloads/AGB_PuS_Anlagenbau.pdf.

(1.3) It is pointed out explicitly that AGB of the customer become an integral part of the contract only when these have been acknowledged in writing by the sellers. In particular, an inclusion through a conclusive behaviour is not effected to the extent that the customer discernibly refers to his AGB and the sellers do not contradict their validity.

(1.4) Insofar as the AGB of the customer have also become a part of the contract and contradict the AGB, the AGB of both parties forms a part of the contract only when they match (principle of congruency). Disagreement arising from the contradicting AGB is to be interpreted primarily under consideration of the interests of both parties and a solution satisfying the interests of both parties is to be found. If this is not possible, the legal regulations are applicable. Disagreements do not impact the effectiveness of the contract and of the AGB.

(1.5) Contracts or amendments of the contracts are effective only when they have been agreed upon in writing; to this extent, the written form not only serves the purpose of a proof, but is also a right-constitutive pre-requisite for effectiveness of the declaration of intent (constitutive written form). This also applies to the amendment of this written form. Informally signed contracts and contractual amendments are effective only when they have been signed by means of individually negotiated terms that have been agreed upon in writing. It is clarified explicitly that the written form requirement is maintained by transmission through telecommunication (e-mail, fax) (see § 127 II, 3 BGB).

(1.6) These VLB can be amended at any time for adaptation to changes in law, changes in judicial practice, in the event of essential changes to the economic situation. The amendments shall become effective to the extent that the seller has notified customer of the new version of the VLB in a textual form with clear emphasis of the changes, seller makes reference as early as the notification of the new version that the changes also become effective without customer's consent / customer does not contradict the changes in good time and a contradiction from customer is not made in good time within 2 weeks of receipt of the notification.

(1.7) The seller reserves the right to make technical changes in design, shape and material even during the delivery period, if the changes are reasonable for the customer and nothing on the contrary has been agreed upon.

§ 2 Offers

(2.1) Offers from the seller always are not binding and represent only a request for submitting a binding order from the interested parties.

(2.2) Offers of the seller are, in case they do not contain any deviating data - subject to an adequate assurance of the order sum (e.g. through credit insurance or bank guarantee) - valid four weeks starting from the day of the proposal submission.

(2.3) The documents and drawings forming a part of the contract, informally signed contracts and contractual amendments are effective only when they have been signed by means of individually negotiated terms that have been agreed upon in writing. It is clarified explicitly that the written form requirement is maintained by transmission through telecommunication (e-mail, fax) (see § 127 II, 3 BGB).

(2.4) Samples are not binding approval samples. Deviations, which are customary to trade and/or lie in the framework of the normal production tolerances, are reserved. The seller is not obliged to provide samples for approval in a flawless state within four weeks, unless agreed upon otherwise. If the return is not done within this period or not in a proper way, the seller has the right to invoice the purchase price of the sample according to the latest price list.

§ 3 Protection rights

(3.1) The seller reserves the copyright for drawings and other design documents and data. These may not be made accessible to third parties, unless agreed upon otherwise, such as for the case that the data / drawings / images are also to be used for a web-shop.

(3.2) The customer guarantees vis-à-vis the seller that the manufacture and delivery of the goods made according to his instructions do not violate any third party protection rights. In case third party protection rights are asserted vis-à-vis the seller, the seller has the right without a legal check to withdraw from the corresponding contract after hearing the customer; unless the third party declares the non-assertion of protection rights vis-à-vis the seller within eight days in writing.

(3.3) The customer must exempt the seller from the claims in the context of the assertion of third-party protection rights of third parties. Services and expenses of the seller already made are to be compensated or reimbursed in case of assertion of third-party protection rights regardless of their materiality.

§ 4 Prices and payment modalities, notification duties

(4.1) The prices mentioned in the offers and documents of the seller are the ex-factory or the ex-warehouse prices of the seller. The prices do not include the respectively applicable value-added tax, the cost of packing, loading and unloading, freight, customs, insurance, dismantling, return and proper disposal of electrical and electronic old devices for commercial purposes as defined in the ordinance for waste electrical and electronic equipment, unless agreed upon otherwise. Fees, taxes or other expenses in the context of the delivery will be borne by the customer. Unless agreed upon otherwise, the delivery taken over from the seller does not include the unloading and bringing of the goods.

(4.2) The unit prices mentioned by the seller in an offer are valid only upon placing a purchase order for the complete delivery scope given in the respective offer or for the respective use of a purchase order deviating in quantity or in scope from the offer of the seller, the prices listed in the offer are not applicable to the seller.

(4.3) Payments for invoices as well as credits, which are made within 10 (ten) days after receiving, with the exception of payments made by means of exchange are to be made with 2 (two) percent net cash discount; later incoming payments within 30 (thirty) days from the date of the invoice are to be made net without cash discount. In case of late payments, the seller reserves the right to demand security through incoming payments are credited at first against interest, then against interest and then against the longest due liability.

(4.4) All invoices and credits - subject to different written agreements in the individual case - are payable by within 30 (thirty) days of the invoice without deduction; a five percent surcharge for late payments is reserved. In case of late payments, the seller reserves the right to demand security through the agreed upon currency by mentioning the account number. For payments of all kinds, fulfillment is said to occur on the day, on which the payment becomes available to the seller without restriction. The seller is not committed to accept bills of exchange or checks. However, if these are acknowledged, they are then accepted only subject to the possibility of discounting against the payment of all expenses on account of performance (see § 364 I BGB). Similarly, the seller is also not obliged to provide timely notification of changes and checks as well as to raise protests.

(4.5) The customer assumes the correctness of his sales tax identification number, which is to be informed immediately and without being asked. The customer is committed to inform immediately about each change in his company name, his address, the delivery address and his sales tax identification number to the seller and to the responsible tax authorities.

(4.6) The seller has the right to adjust his prices, if needed, to the normal level in the market, if wages, material prices or taxes increase in the period between signing the contract and executing the order. In case of an increase in stock exchange listing for NE metals, the seller has the right to charge the difference to the customer. The seller is not obliged to provide timely notification of changes and checks as well as to raise protests. In case of further changes in stock exchange listings, the seller has the right to correct the calculated basis for the list prices.

(4.7) The prices of the products containing brass and copper are subject to certain fluctuations, which are based on the respective DEL quotation. The prices of brass articles are based on a DEL quotation of Euro 150.00 for Mg 58, those of copper products are based on a DEL value of Euro 200.00 for electrolytic copper. In case of an increase in the price of copper or nickel, a five percent surcharge or deduction is credited for each 15 (fifteen) points. For calculating the surcharge or the deduction the respective DEL note of the date is taken as the basis, on which the seller received the offer.

(4.8) In case of payment by instalment, the seller has the right to charge default interest amounting to 9 (nine) percent points p.a. over and above the respective base interest rate as per § 247 BGB. The asserting of a further default interest according to 9 (nine) percent points p.a. over and above the respective base interest rate is not reserved.

(4.9) The customer is entitled to the rights of set-off or rights of retention only when counter-claims have been recognised by declaratory judgment or are undisputed.

(4.10) If an application has been filed for initiating insolvency proceedings over the assets of the customer, the customer has initiated an out-of-court process for debt settlement, has stopped his payments or else the seller is aware of other circumstances, which essentially reduce the credit-worthiness of the customer and which jeopardise the rendering of the services by the customer, the seller has the right to demand security through advance payment or to demand security through a bank guarantee or to set aside the order and to refuse to deliver the goods and to refuse to render the services till the security is paid. After a suitable notice period has elapsed in vain, the seller further has the right to withdraw from the contract as well as to demand indemnity. Moreover, in this case, the seller can also demand the resale authorisation along with direct debt authorisation as referred to in § 371 BGB. The seller has the right to bond and to mingle the already delivered goods according to §§ 8-8.4.5 as well as demand the return of the delivered goods according to §§ 8-8.4.9.

(4.11) If the legal situation at the time of the conclusion of the contract decisively changes or if control of customer or of a considerable part of his holdings passes to other natural or legal entities, customer is obliged to notify seller without delay.

(4.12) In order to have a tax-free delivery and, if necessary, to avoid tax on the sale tax and thereafter to pay the sales tax after receiving the papers, the customer must bring forth the proof of delivery. To do this, he has to demonstrate the delivery of goods by sending the corresponding original document within 4 (four) weeks to the seller after pick-up / dispatch of the goods. In case the seller does not receive this document within the mentioned period, he has the right to charge the customer the sales tax on the net goods value sold for the period.

(4.13) Invoice reductions, differences, debit advices or other disagreements do not change the original term of payment of the invoice. All indisputable receivables, not affected by disagreements, become due for payment according to the original invoicing. All credit advices created by the seller for settling the differences do not change in any way the original term of payment of the invoice.

§ 5 Delivery

(5.1) Packaging, dispatch route and means of transportation are generally based on the graded lumpsum prices; the regulations of § 4.1 are applicable in addition. The seller charges the costs for packaging, dispatch route and means of transportation.

(5.2) A carriage-paid delivery without freight and packaging costs within Germany, is done for free starting with a net order value of Euro 2,500.00. It is made clear that a delivery is "free to the door" when the carrier opens his vehicle at the agreed upon unloading point and makes it available for unloading. The unloading as well as the on-site delivery of the goods is to be done by the customer.

(5.3) Undamaged return of the goods is possible if the customer is notified of the return of the goods and if the goods are returned to the seller to be exchanged with the freight carrier or to be retained. Details of the processing are given in the respectively applicable implementation plan handling of the seller, which can be stored permanently in the Internet at http://cdn.obo.de/mailings/downloads/Packschema_Ladehilfsmittel.pdf

(5.4) The smallest selling units defined in the article master data are binding. Goods ordered below the smallest selling unit are rounded off automatically, i.e. without consulting the buyer, to the next higher smallest selling unit.

(5.5) The seller reserves the over and under-deliveries, in particular in case of order-related production in the market-based scope or the as per the national or international standards. In case of a demand for adhering to precise quantity, an explicit instruction is necessary, which must be confirmed.

(5.6) The seller has the right to partial deliveries, but is not committed, if the partial deliveries are reasonable for the customer. Partial deliveries can be invoiced separately from the main contract. This does not apply, if the seller is responsible for the non-delivery or for the delay.

(5.7) The customer cannot reject excess or reduced services in a reasonable scope. The complaint of an excess or reduced service does not justify the rejection of further deliveries from the same or from another contract. In case of custom-made products the seller reserves an excess or under-delivery of 10% of the ordered quantity. In each case, only the actually delivered quantity is invoiced.

(5.8) Blanket and call order contracts are concluded by the seller on the basis of a purchase order, which includes the conditions and call orders. In case no specific call orders result from the contract or from any other agreement, the total quantity of the blanket or call order is to be called within 3 (three) months. If the customer does not adhere to the call dates, the seller has the right to completely deliver the total quantity to his house address and to invoice it 4 (four) weeks after written declaration by indicating the consequences of the omitted call. The rights of the seller default of the customer remain unaffected.

(5.9) The delivery commitment of the seller is subject to the provision of defect-free and on-time self-delivery, if the seller procures the goods as a whole or parts of product from a sub-contractor. This does not apply, if the seller is responsible for the non-delivery or for the delay.

(5.10) Events, such as those below, for which the seller is not responsible in the scope of the normal operating risk and which make the partial delivery essentially difficult or even impossible, entitle the seller to postpone the (partial) delivery by the duration of the hindrance together with the suitable start-up time or alternatively to withdraw from the contract. In each case, the customer can demand a declaration from the seller, whether he will deliver within a suitable time period according to the circumstances or whether he will withdraw. The delivery periods gets extended in case of events such as industrial conflicts, strikes and lockouts, regulatory actions, material procurement difficulties, scrap or rework, business disruptions and lack of staff, lack of means of transportation as well as upon occurrence of other unforeseen events, on which the seller has no influence, by the duration of these events.

(5.11) Even in case of dispatch readiness, the customer comes in default of acceptance, if in case of delivery ex-factory/warehouse or agreed upon pick-up obligation the delivery is offered to him by the seller only in writing or else the customer has declared that he will final not accept the delivery.

(5.12) Products reported as ready for dispatch per the contract must be accepted immediately by the customer. Otherwise, the customer comes in default of acceptance so that the seller - his other rights notwithstanding - has the right either to dispatch the goods at the cost and risk of the customer or to store them and invoice them upon the expiry of a notice period of one week. The same applies, if the goods are not called or not called completely within the decisive call period (see § 5.8).

(5.13) For the case that the customer comes in default of acceptance or violates other service or participation duties, the seller has the right to demand the damages caused to him including possible extra expenses.

(5.14) If the customer fails to comply with the fulfilment obligations from the aforesaid regulations by more than one month, the seller can further rights notwithstanding - demand from the customer a contractual penalty of 5 (five) percent of the invoice value instead of contract fulfillment and dispose of the stored goods in any other way under consideration of the interests of the customer or scrap the goods. The contractual penalty is charged at a reimbursement of damages or expenses to be paid by the customer. A bulk discount granted on earlier deliveries based on this contract is then to be paid back later by the customer.

§ 6 Delivery periods and dates

(6.1) Delivery periods and dates apply only approximately unless something to the contrary has been agreed upon.

(6.2) The adherence to the delivery periods and dates is determined by the calendar of the customer. Delivery periods start with the date of order confirmation by the seller, but not before clarifying all details of the execution of the order and receipt of all documents necessary for the order execution and other information to be made by the customer as well as the receipt of an advance payment agreed upon. If these requirements are not fulfilled on time, the delivery shall be delayed accordingly. This is not applicable, if the delay is caused by the seller. The delivery period shall be deemed to have been met, if the goods leave the plant or the warehouse at the appointed time or the dispatch readiness of the customer is reported, but the goods cannot be dispatched on time without a fault of the seller. The aforesaid regulations apply accordingly to delivery dates.

(6.3) In case of a later placement of the order desired by the customer, the seller can demand an appropriate extension of the delivery periods and dates. If the delivery is delayed upon request or by fault of the customer, the goods are then stored at the cost and risk of the customer, unless agreed upon otherwise.

(6.4) Regulatory and third party approvals, necessary for executing the assets or deliveries e.g. for the purpose of import are to be obtained by the customer. If such approvals are not present at the right time (i.e. at the start of the fulfilment negotiations / acts by the seller) then the delivery period gets extended accordingly.

(6.5) The seller has the right to carry out partial deliveries as well as deliveries before due date and to settle them separately. If the delivery is agreed upon call, the goods are then considered as called latest by three months after placing the order, unless agreed upon otherwise. The case-

terminer then has an obligation to accept the delivery, upon whose violation the seller in particular has the right to store the goods with a third party at the cost and on behalf of the customer or to deliver them at the address of the customer.

(6.6) In case of articles manufactured by the seller on order, the customer is obliged to accept the same. It is agreed upon explicitly that in case of a withdrawal of the customer from the contract, the customer must bear the costs accruing till the time of the withdrawal.

(6.7) In case of delays of delivery or of performance, the seller is not liable for the consequences of the delay, unless it is proven that the delay is caused by the seller. The seller is not liable for the consequences of the delay, unless it is proven that the delay is caused by the seller. The seller is not liable for the consequences of the delay, unless it is proven that the delay is caused by the seller.

(6.8) If the delivery delays cause by these factors last for more than two months, both sides have the right to withdraw from the contract. However, the customer can withdraw only if he has received a notice period of one week before the withdrawal. A withdrawal after the expiration of the contract has within a suitable period. The same right of withdrawal arises independent of the aforesaid period, if the execution of the contract has become unreasonably for one of the parties under consideration of the delay that has occurred.

(7.1) A claim of the customer for return of the goods does not need arises - except for warranty cases or other return obligations resulting from the law - only after a prior written approval of the seller. Return requests, whose net goods value - before sales tax - is less than Euro 15.00 for the net item, cannot be accepted and processed. Credit notes or charges resulting from returns can be maximum up to 70 (seventy) percent of the net goods value.

(7.2) In addition, the conditions and conditions set out below shall be applied with pursuant to §§ 7.3-7.6 and no case of § 7.7 shall exist.

(7.3) A return is permitted till maximum 12 (twelve) months after the date of delivery and only by specifying the delivery note or invoice number of the goods.

(7.4) A product currently in the catalogue is to be returned in a flawless state so that it can be resold. A product is to be returned unused, undamaged, in original packaging as well as in complete packaging units. The minimum value for accepting each item in the warehouse is Euro 15.00.

(7.5) The return must be reported and confirmed by the seller in writing with a return number. If needed, an invoice of the product is done by the seller also, which the customer has to send. The return confirmation of the seller is to be attached with the dispatch. The return is done free of charge. A remuneration is paid via credit note. Only approved returns in a flawless condition are credited. Debit notes of the customer are not permitted.

(7.6) In handling and checking in the scope of the quality management system ISO-9001, the seller charges a lump-sum processing fee of 30 (thirty) percent of the affected goods value. The seller bears the necessary costs for the new packing and clearing of the goods.

(7.7) Custom-made products, not listed / inactive articles and discontinued types, packaging units with a shortfall and old executions are not taken back.

(7.8) If one of the points mentioned under § 7.7 is relevant, the returned product is scrapped after consulting with the customer and expiry of a suitable period set for the customer.

(8) Reservation and structure of ownership / Reservation of proprietary rights and property relations.

(8.1) The reservation of ownership of the delivered object and the reservation of all payments from the business relationship with the customer. The reservation of ownership also extends to the recognised balance, if the seller posts receivables vis-à-vis the customer in the current invoice (current account retention).

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(8.5) If the delivered objects are processed with other objects not belonging to the seller, are connected or joined inseparably, the seller then acquires the co-ownership of the new object in the ratio of the value of the delivered object to the other connected or joined objects at the time of connecting or joining. If the connection or joining is done in a way that the product of the customer is to be considered as the main product, the customer then acquires the co-ownership with the seller. The reservation of ownership of the seller is not affected by this.

(8.6) The customer is committed to take charge of the (co-) ownership of the seller free of cost and with proper business care; it is to be treated like goods subject to retention of title. In doing so, the customer is committed to show the care over and above the one he shows in his own matter.

(8.7) Before the transfer of ownership, the product of the seller may neither be mortgaged nor pledged as security without a written permission. The assertion of third party rights on the product is to be informed immediately to the seller. In addition, all information necessary in this case for a possible enforcement of the claims is to be given and the corresponding documents are to be handed over. If the customer does not fulfil the requirements, the damages arising from this are charged to the customer. In this case, all claims against the customer become due immediately.

(8.8) As long as the customer goes according to the contract, i.e. fulfils his contractual payment obligations, the customer has the right to sell further delivered objects and to use them. The reservation of ownership does not affect the right to sell and to use the delivered objects. In case of late payment, the customer can demand that the reservation of ownership is to be revoked. If the goods are sold before paying the receivables of the seller, the customer is then committed to preserve and secure the ownership rights of the seller till the complete repayment of the receivables. To do this, he surrenders all receivables and securities in the possession of the customer and the receivables and securities in the possession of the customer from the resale of the goods and possible indemnity claims owing to damage and destruction of the goods subject to retention of title, which also includes an insurance sum in place of the retention of title amounting to the final invoice amount (including VAT), which accrue for the customer from the resale to his customers or to third parties, regardless of the fact whether the delivered objects have been resold or according to the agreement. The assignment of the receivables and securities to the seller is to be made immediately. In case of non-payment, the assignment of claim of the customer from the resale, which matches the share value of the seller. The customer is authorised to collect the receivables even after surrendering them. The authority of the seller to collect the receivable himself remains unaffected by this; however, the seller is committed not to collect the receivable as long as the customer has not paid the receivable in full. In case of late payment, the seller is committed to hand over the receivables and securities to the customer discloses the collected receivables and their debtors as well as provides all information necessary for the collection, hand over all the documents necessary for this and notifies the surrender to the debtors (third parties). In this case the seller - other rights notwithstanding - is especially committed to take the necessary measures to take the receivables and securities in the possession of the customer and to utilise the delivered objects (or their substitutes) after giving reminders according to dutiful discretion, whereby a corresponding credit (minus the costs of utilisation) is granted to the customer.

(8.9) The reservation of ownership of the delivered object and the reservation of all payments from the business relationship with the customer. The reservation of ownership also extends to the recognised balance, if the seller posts receivables vis-à-vis the customer in the current invoice (current account retention).

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Always indicate the item number when ordering.

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