

Cable support systems

Building Connections

Digitalisation, the Energiewende (energy transition), mobility – the future is gathering speed. At OBO Bettermann, we're proud to be a driving force. And as a facilitator, we make connections. Today, we are already developing the innovative electrical infrastructure systems and solutions of tomorrow. Reliably, flexibly, sustainably.

Already today, OBO is one of the leading manufacturers of installation systems for the electrical infrastructure in buildings and plants. When it comes to the friction-free flow of power, energy and data, engineers and tradespeople worldwide rely on the comprehensive range from OBO.



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OBO applies its slogan "Building Connections" to around 30,000 high-quality branded electrical products and services, which are used in application solutions for projects in industry, business and infrastructure.

OBO operates a global network and employs more than 4,200 people in more than 60 countries. The headquarters of the family company, which was founded in 1911, is located in Menden, Germany. In addition, more than 40 subsidiaries are present in markets on all continents.



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Improved structure, sharpened profile



Each of our products carries a benefit which only the OBO brand can offer. Products are developed, manufactured and tested with a high level of competence – from the idea through to the final check. From flawless logistics through to practical information – we can provide support at every level. We can offer additional security through certificates on the conformity of our products with the most important standards and directives. In a nutshell – OBO helps you more. In every location and in every phase of a project.

To maintain this, we continually challenge ourselves. Not as an end in itself but for the better processing of each customer's requests – fast, reliably and future-oriented. That is the reason we have not only established our three central application areas, but also reworked our catalogue structure. In this way, we can display our service offers more clearly, highlight the product benefits more effectively and illustrate the respective application areas more tangibly.

OBO Product Worlds



Industrial installations

- Cable support systems
- Connection and routing systems
- Fastening material



Building installations

- Cable routing systems
- Device installation ducts, trunking and poles
- Floor installation systems and underfloor applications
- Installation systems



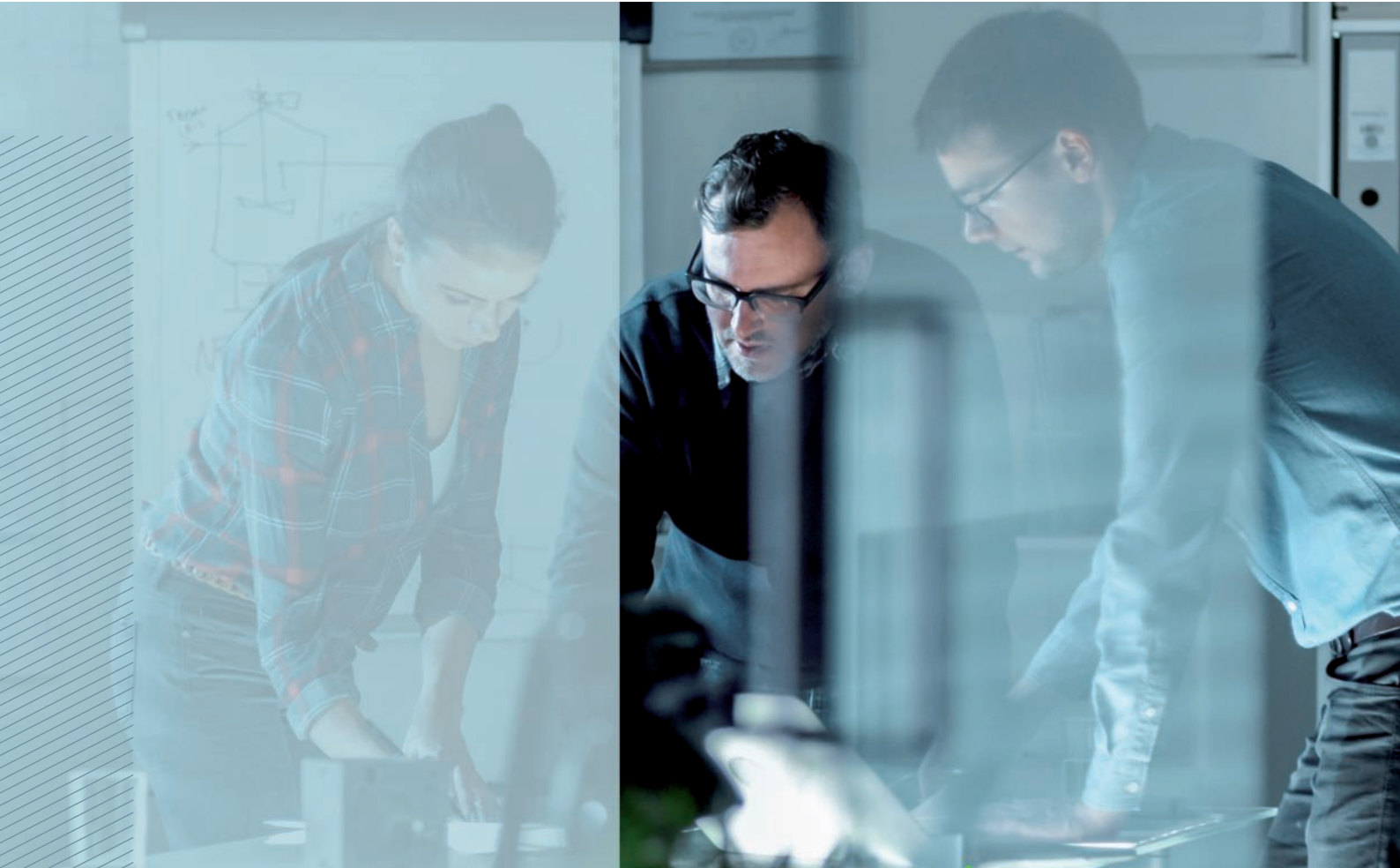
Safety and protection installations

- Surge protection
- External lightning protection
- Equipotential bonding and earthing
- Insulation and cable bandages
- Fire-tested support and routing systems
- Fire protection ducts



It's your choice – from now on there's a catalogue for each OBO product category. Simply select the catalogues and order together with a collection case.

OBO Support & *contact*



***You have a
problem?
We have the
solution!***

OBO Bettermann is more than the sum of its products. In any situation, we are the reliable partner right by your side. You have a problem? We have the solution!

It doesn't matter in which area of industry our support is needed – from industrial and plant engineering to private, public and administrative buildings, as well as in the areas of mobility and renewable energies – we have everything that you need.

OBO can not only provide the entire electro-technical infrastructure with the best possible products. We can also support you with sound expert knowledge and more than 100 years of experience, right from the planning phase through to the realisation of your projects. OBO – solutions you can rely on.

Customer Service

Tel.: +49 23 73 89 - 17 00

Monday–Thursday
07.30–17.00

Friday
07.30–15.00

export@obo.de

What is OBO Support?

Every OBO product carries a plus inside it, which only a branded product can offer. It is developed, manufactured and tested with a high level of competence, from the idea right through to the final check. In addition, our specialists are available for consultation and can offer you assistance and training courses for products at any time.

Together with you, we plan your project and help you choose the right products, and are also available to you at any time should you need us. From flawless logistics through to practical information – we can provide support at every level. We can offer security through certificates on the conformity of our products with the most important standards and directives.

We are as flexible as you are – because we know how practical people work and what is important to them. Each step is a plus – that is the OBO Support concept.



Service



Training



Handling



Certification

Service – OBO can help

Everywhere and in every project phase:

- Highly competent hotline
- Product and system information, digitally or printed
- Selection and planning aids on the web, as an app, as a CAD application or in printed form
- 2D and 3D product data for planning
- Field service, branch offices and subsidiaries in 60 countries
- Engineering services for major projects

Training courses from OBO

- Seminars and workshops
- Local consultation and training courses
- Planner days

Handling – OBO delivers reliably

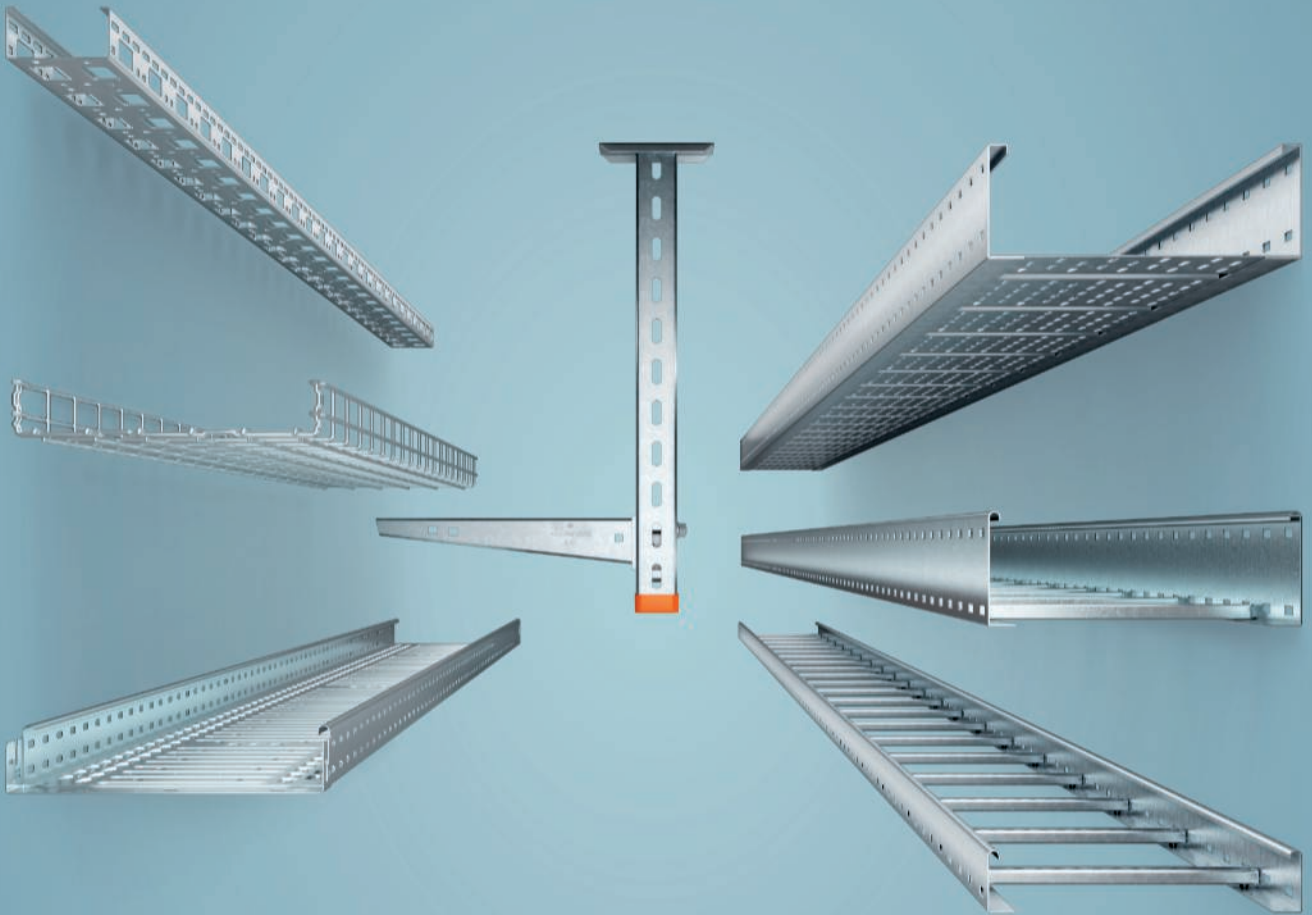
With optimised delivery processes:

- Reliable logistics
- Practical transport systems and packaging
- Loading gear handling and disposal concepts

Certification and guarantee

OBO offers safety. Our products fulfil the most important country-specific regulations:

- Conformity (e.g. IEC, VDE, CE, KEMA, KEUR, UL)
- Certification (e.g. DIN EN, DGNB)
- 5-year guarantee for surge protection products
- Guarantee management



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Metal: corrosion and corrosion protection



Corrosion

(from the Latin *corrodere*, “to eat or gnaw to pieces”) in a technical context is a reaction between a material (generally a metal) and its surroundings, leading to a measurable change in the material and potentially impairing the functionality of a component or system.

A large number of products used in industrial installations are made of metal. Metals are much tougher than many other materials and are less sensitive to mechanical loading. The OBO metal products are made of aluminium, die-cast zinc, stainless steel or steel.

Steel (St), the most commonly used material, is very strong and has good elasticity and chemical resistance. However, steel is susceptible to corrosion and must therefore be protected accordingly.

Stainless steels consist mainly of alloyed, very hard and rustproof steels. The stainless steels are divided into quality classes according to the percentage of alloys. These are indicated by the material number according to DIN EN 10027.

Aluminium (Al), as a light metal, has comparatively low strength but good electrical conductivity and high corrosion resistance.

Die-cast zinc components (Zn) are very strong and hard. The manufacturing process enables the production of very precise components with good corrosion resistance.

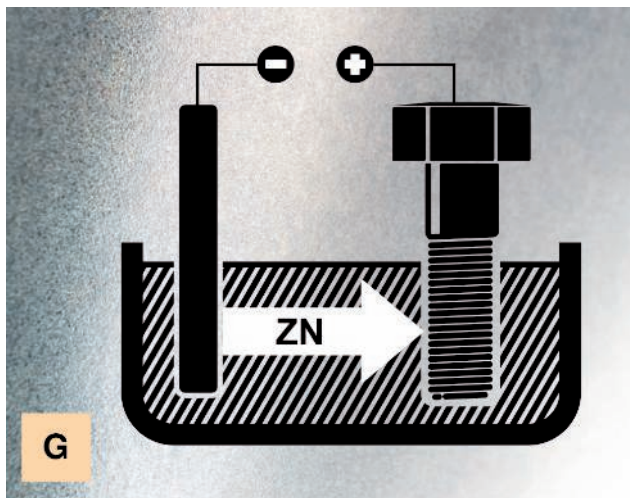
Corrosion protection

Corrosion protection means all steps taken to prevent corrosion damage to metallic components. It is impossible to prevent corrosion permanently, so corrosion protection measures generally aim to reduce the speed of corrosion so that the component is not damaged by corrosion for the duration of its service life. The term “passive corrosion protection” refers to all measures designed to shield products from corrosive media. Coatings are one way of achieving passive corrosion protection. At OBO, most steel products are protected from corrosion by a layer of zinc. Zinc coatings can be applied to components using a variety of methods.

Zinc slat covering

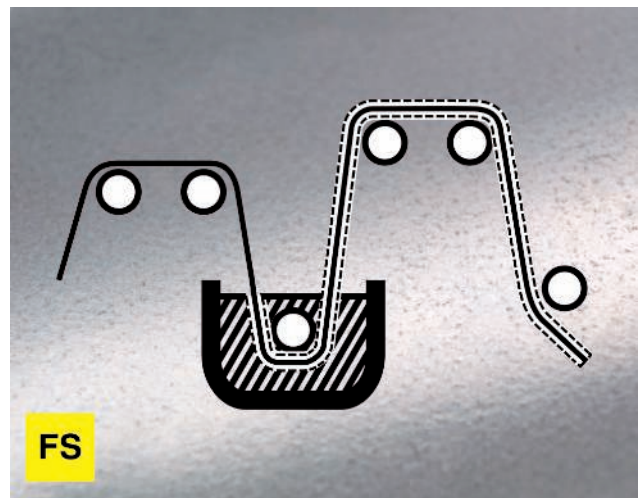
Zinc slat coverings are coatings applied in a non-electrolytic manner. They offer cathodic protection and thus have excellent corrosion protection, while at the same time, there is no risk of hydrogen-induced breakage. Due to these properties, this coating type is used for connection components with a high strength classification or structural parts with high tensile strength. The low layer thickness of the zinc slat covering allows a thin, homogeneous coating, which is particularly important for maintaining the accuracy of screw threads. This coating achieves a resistance of 480 hours in the salt spray test for the connection elements.

Galvanisation types



Electrogalvanisation – electrolytic galvanisation in accordance with DIN EN ISO 2081

In electrogalvanisation or electrolytic galvanisation, the component is coated by dipping it not in molten zinc, but in a zinc electrolyte, through which a direct electric current is passed.



Strip galvanising – hot galvanised according to the strip-galvanising method in accordance with DIN EN 10346 (formerly DIN EN 10147 and DIN EN 10142)

Strip galvanisation or Sendzimir galvanisation is where a continuous ribbon of steel is galvanised in a continuous line.



Hot-dip galvanisation – hot galvanisation using the dipping method according to DIN EN ISO 1461

Batch galvanisation is mainly used for galvanising prefabricated steel parts, by dipping them in molten zinc at a temperature of around 450 °C.



Hot-dip coating – zinc-aluminium coating in accordance with DIN EN 10346

In contrast to conventional coating systems, the material being galvanised in the double-dip process passes through two baths in succession: the first contains pure zinc, the second a zinc-aluminium alloy.



Surface testing and corrosion categories



Classification of corrosion resistance

All the system components must show sufficient resistance against corrosion in agreement with the standard DIN EN 61537. The minimum zinc layer thicknesses are determined through a measurement. The grouping into the appropriate class is detailed in the table "Classification of corrosion resistance". The table "Corrosion categories according to DIN EN ISO 12944" shows the area of application and the zinc loss to be expected.

Classification of corrosion resistance

All components, depending on the environment, must show sufficient resistance against corrosion in agreement with the standard DIN EN 61537. This is how corrosion categories are determined, e.g. with a salt spray test. In this procedure, components are sprayed with salt for a certain time period. The resulting level of red rust is the basis for allocation to a corrosion category, i.e. in which environment the component is resistant to corrosion.



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 (minimum) of 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 **

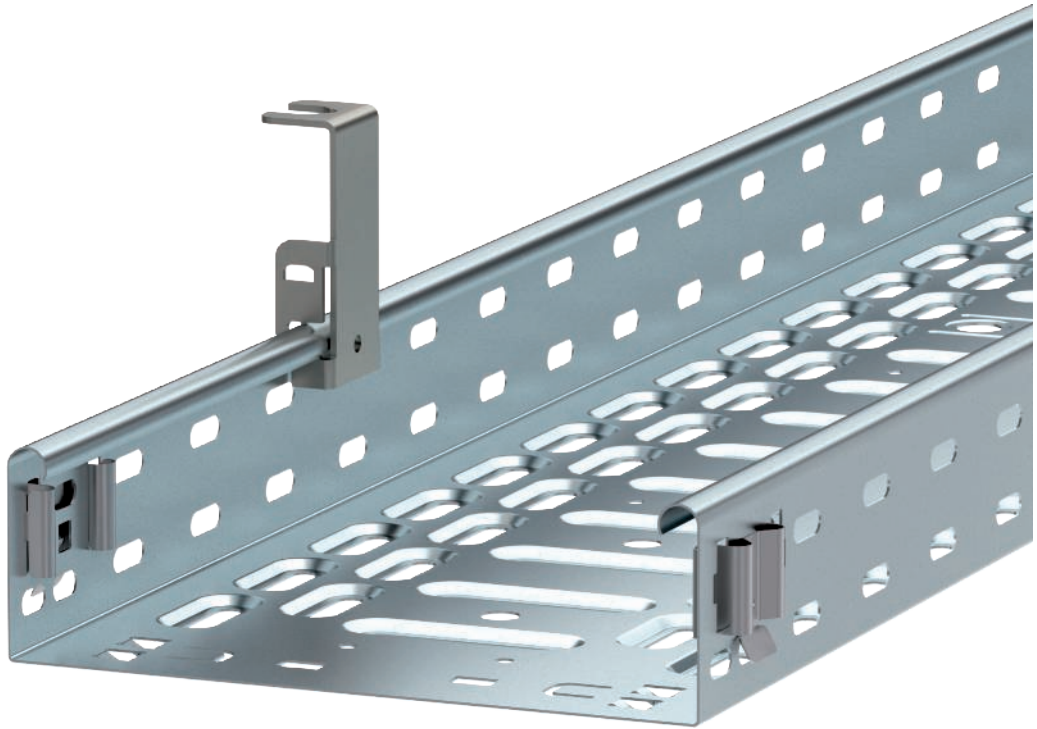
* For materials which do not have a declared corrosion resistance classification

** 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

Contact corrosion



If two different metals are conductively connected with each other, contact corrosion can occur. This poses a considerable risk to the load capacity and lifespan of the components used.

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

Additional contact corrosion criteria:




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



Installation locations

Whether indoors or outdoors, in aggressive atmospheres or under special hygienic conditions, OBO can offer the perfect surface and materials for your installation, no matter what the requirements may be. OBO metal products are machined from high-quality sheet steel or

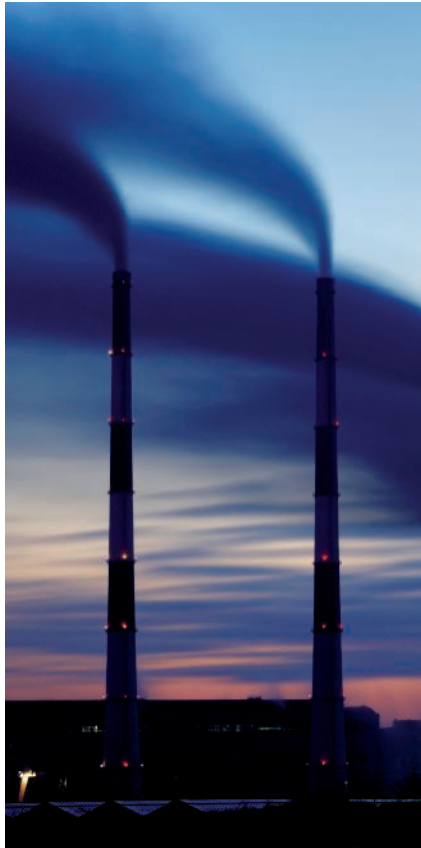
steel wire and are available with various surfaces. Different hardening and coating methods ensure tailor-made corrosion protection, specially tailored to the appropriate application:

Application	Material	Surface protection
Indoors 	St Steel	L Painted/powder-coated
	St Steel	FS Strip galvanised DIN EN 10346
	St Steel	G Electrogalvanised DIN EN ISO 2081
Outdoors 	St Steel	FT Hot galvanised DIN EN ISO 1461
	St Steel	DD Hot galvanised DIN EN ISO 1461
	VA Stainless steel A2	
	VA Stainless steel A4	
Especially corrosive areas 	VA Stainless steel A2	
	VA Stainless steel A4	

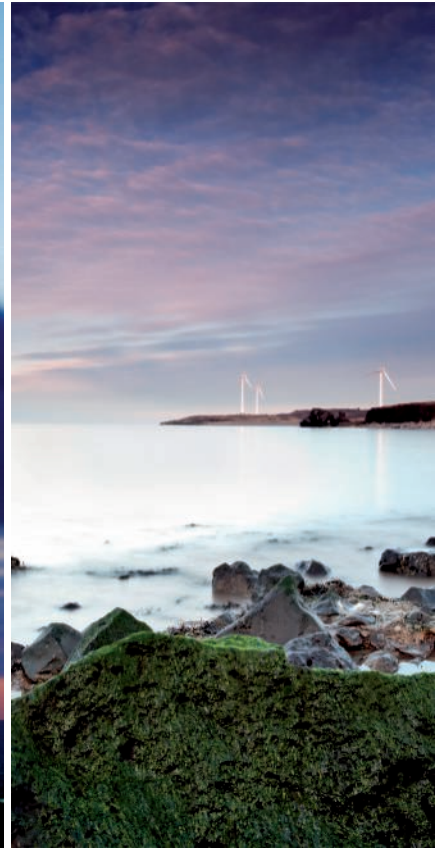
Contact corrosion in different environments



Land climate



Industrial atmosphere



Sea climate

Small/large	Zn	FT	Al	Cu	VA	CuZn
Zn		✓	○	✗	✗	○
FT	✓		○	✗	✗	○
Al	✓	✓		✗	✗	○
Cu	✓	✓	✓		✓	✓
VA	✓	✓	✓	✓		✓
CuZn	✓	✓	✓	✓	✓	

✓ Little to no corrosion

○ Moderate corrosion

✗ Heavy corrosion

The precondition for corrosion is a conductive medium that connects the metal combination. The more damp and contaminated the atmosphere is, the more pronounced the contact corrosion.

Surfaces for special visual requirements or special environmental loads



Applications with specific optical requirements or special environmental conditions

Colour-coated products 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

- Products in FT (hot-dip galvanised version)
- All RAL colours available
- Coating of the visible surfaces 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 cables and IT)

Colour-coated systems are not specifically indicated in this Industrial installation product catalogue. You can obtain details of these systems by contacting our telephone hotline on +49 23 73 89 - 17 00.

Plastic: materials and properties

Essentially plastics can be of one of three types: thermoplastics, elastomers and Duroplast.

Thermoplastics

are plastics that can be shaped within a specific temperature range. This process is reversible, in other words, thermoplastics can theoretically be cooled and then melted down again any number of times. Another unique advantage of thermoplastics is that they can be welded.

Elastomers

have a fixed shape, but can be elastically deformed. They can elastically deform under tensile and compressive stresses, but afterwards will return to their original shape. Elastomers are used for producing seals and membrane entries.

Duroplast

or thermosetting polymers/plastics, are plastics that can no longer be deformed following curing. Duroplasts produce hard, glass-like (brittle) polymeric materials with a high thermo-mechanical strength.

Properties

The area of application for which plastic OBO products are suitable depends mainly on the properties of the material being used. The most important material properties are:

- Temperature resistance
- Risk of stress cracks
- Chemical resistance
- Halogen freedom
- UV resistance
- Flame resistance

		Material	Max. temperature resistance Permanent	Max. temperature resistance Short-time	Min. temperature resistance Static
Thermoplast	ABS ASA	Acrylonitrile butadiene styrene	70 °C	85 °C	-25 °C
	EVA	Ethylene vinyl acetate	55 °C	70 °C	-15 °C
	PA	Polyamide	120 °C	150 °C	-25 °C
	PA/ GF	Polyamide, fibreglass rein- forced	120 °C	160 °C	-25 °C
	PBPT	Polybutylene terephthalate	120 °C	140 °C	-25 °C
	PC	Polycarbonate	110 °C	125 °C	-25 °C
	PE	Polyethylene	70 °C	90 °C	-25 °C
	PP	Polypropylene	90 °C	110 °C	-25 °C
	PS	Polystyrene	70 °C	80 °C	-15 °C
	PVC	Polyvinyl chloride	65 °C	80 °C	-25 °C
Elastomers	NBR SBR	Rubber mixture	100 °C	110 °C	-25 °C
	NBR	Nitrile rubber	100 °C	110 °C	-25 °C
Duroplast	UF	Duroplast, aminoplast, type 131.5	65 °C	90 °C	-25 °C
	MF	Duroplast, melamine resin, type 150	80 °C	110 °C	-25 °C



Plastic: stress crack risk and chemical resistance

Risk of stress cracks

Medium	ABS/ASA	UF	MF	EVA	NBR SBR	NBR	PA	PA/GF	PBPT	PC	PE	PP	PS	PVC
Risk of stress cracks	✗	✓	✓	✓	✓	✓	✓	○	○	✓	!	✓	✗	○

Danger of tension cracks: ✓ Virtually negligible ○ Low ! High ✗ Very high

Chemical resistance

Medium	ABS/ASA	UF	MF	EVA	NBR SBR	NBR	PA	PA/GF	PBPT	PC	PE	PP	PS	PVC
Petroleum	✓	✓	✓	○	✓	○	✓	✓	✓		○	○	○	✓
Fat	✓	✓	✓	✓	✓	○	✓	✓	✓				○	✓
Benzole	!	✓	✓	○	✓	!	✓	✓	○	!	!	○	!	!
Solvents	!						✓	✓	○				!	!
Formic acid	✓	!									!	○		
Citric acid	✓	!		○							!			
Lactic acid	✓	!		○							!	○	!	!
Hydrochloric acid	○	!									✓			!
Sulphuric acid	○	!									✓			!
Acetone	!	✓					✓	✓	○	!	!	○	!	!
Petrol	!	✓	✓	○	○	!	✓	✓	✓	✓	!	○	!	✓
Butyric acid	!	!		○							!	○		!
Chlorine	!						!	!	!	!	!	!	!	
Acetic acid	!	!		○							!		!	
Nitric acid	!	!									✓		!	
Ester		✓	✓	○	!	!								
Alcohol		✓	✓	○			✓						✓	
Mild alkalis		✓	✓	✓	✓	✓	○	○	!		✓	✓		✓
Mild acids		○	○	✓	✓	✓	!	!	✓	✓	✓			✓
Ether		✓	✓	○									!	
Water		✓	✓	✓	✓	✓								
Strong acids		!	!	○						!	!	!		!
Strong alkalis		!	!	✓						!		✓	✓	✓
Hydrofluoric acid				○							✓			
Paraffin hydrocarbon				○								○		
Haloalkanes				!										
Ketones				!	!								!	
Aldehyde				✓										
Organic acids				○							!	○		
Seawater					✓	✓								
Diesel fuel							✓	✓	✓		○	○	!	
Ammoniac									○				!	

Resistance: ✓ Resistant ○ Limited resistance ! Not resistant

Plastic: material properties



Halogen freedom

Estimates suggest that around 95% of fire victims die not due to the immediate effects of the fire, but of poisoning from the smoke. In addition, the corrosive fire gases created during fires cause immense damage to property and can permanently damage the structure of a building. Therefore, halogen-free installation systems must, or should, always be used in public areas (emergency routes, lifts, etc.). The chemical composition of these halogen-free systems is designed in such a way that, in the event of fire, they produce less hazardous

(toxic/corrosive) gases, which could combine with extinguishing agents to form hydrochloric acid. In the sense of the standard DIN VDE 0472, this means that materials are considered halogen-free when "the proportions of the halogens chlorine, bromine and iodine are $\leq 0.2\%$ for chlorine and $\leq 0.1\%$ for fluorine". OBO Bettermann offers a wide range of halogen-free products that reduce the risk of harm to people and property to a minimum in case of fire.



UV resistance

Outdoor installations should always be viewed particularly critically with regard to the mounting locations and the selection of the installation materials.

UV radiation is damaging to many plastics, causing them to turn yellow and/or brittle or lose their elasticity. However, plastics can be protected against UV damage through the addition of UV stabilisers. Products made

from UV-resistant materials are specially marked. In general, besides UV radiation, installations outdoors must also take other environmental influences into account. Factors such as maximum temperatures, regularity of (extreme) temperature changes, humidity and the location of use/mounting (housing, industry, town, region, continent) all have an important role to play here.



Flame resistance/fire resistance

Materials are described as flame-resistant if they prevent the spread of fire or are sufficiently fire-resistant. According to DIN EN 60695-2-11 (VDE 0471 Part 2-11), electrical connection materials must be subjected to a glow wire test in order to evaluate the fire risk of the end product. When the glow wire test is being carried out, a

glowing wire (for temperature see table below) is inserted into the component to be tested for a period of 30 seconds and then removed. After a further 30 seconds at the latest, the object, if it has caught light, must have extinguished again, in order to specify the flame resistance.



Types of installation systems

Types of samples Test temperatures in °C	Surface-mounted	Flush-mounted	In-plaster	Cavity wal- l/furniture	Concrete structure	Installation duct
Connection sockets	650	650	750	850	650	750
Device sockets and device connection sockets	750	650	-	850	650	750
Ceiling lights, connection sockets	750	650	-	850	650	750
Wall luminaire connection boxes	750	650	-	850	650	750
Device connection sockets	750	650	-	850	650	750
Connection sleeves	750	-	-	-	-	750
Insulation sections, which support active parts	960	-	-	-	-	-
Lid for installation sockets	750	-	-	-	-	-

Protection ratings



IP protection rating

The IP protection rating specifies how far a component is protected against contact and foreign bodies and the ingress of water. The IP protection ratings are controlled by the standard DIN EN 60529 (VDE 0470 Part 1). The IP is always made up of two digits.

The first digit designates the contact and foreign body protection. On the one hand, it specifies how far a housing prevents access to dangerous parts, by preventing or limiting the ingress of body parts or objects held by a person. On the other hand, it specifies how far the housing protects the installed resources against the ingress of solid foreign bodies.

Protection rating

First code digit	...against access to the hazardous parts	...against solid foreign bodies
0	Protected against access to hazardous parts with the back of the hand	Non-protected
1	Protected against access to hazardous parts with a finger	Protected against solid foreign bodies of 50 mm diameter and larger
2	Protected against access to hazardous parts with a tool	Protected against solid foreign bodies of 12.5 mm diameter and larger
3	Protected against access to hazardous parts with a wire	Protected against solid foreign bodies of 2.5 mm diameter and larger
4	Protected against access to hazardous parts with a wire	Protected against solid foreign bodies of 1.0 mm diameter and larger
5	Protected against access to hazardous parts with a wire	Dust-protected
6	Protected against access to hazardous parts with a wire	Dust-proof



The second digit specifies the protection against water. It specifies how far the resource is protected against incoming water and the resulting damage.

Protection rating against the entry of water with a damaging impact

Second code digit	Short description	Definition
0	Non-protected	-
1	Protected against water droplets	Droplets falling vertically must not have a damaging impact.
2	Protected against drip water when enclosure tilted up to 15°	Vertically falling drops must not have harmful effects when the enclosure is tilted at any angle up to 15° on either side of the vertical.
3	Protected against spray water	Water being sprayed at an angle of 60° on both sides of the vertical must not have any damaging impact.
4	Protected against spray water	Water spraying the housing from any direction must not have any damaging impact.
5	Protected against water jets	Jets of water pointing at the housing from any direction must not have any damaging impact.
6	Protected against strong water jets	Strong jets of water pointing at the housing from any direction must not have any damaging impact.
7	Protected against the effects of being temporarily immersed in water	If the housing is sometimes underwater under standard pressure and time conditions, then water may not enter in such volumes as would have a damaging impact.
8	Protected against the effects of being continuously immersed in water	Ingress of water in quantities causing harmful effects must not be possible when the housing is continuously immersed in water under conditions which shall be agreed between manufacturer and user. However, the conditions are more difficult to fulfil than for number 7.



IK code

The IK code to DIN EN 50102 indicates the protection rating of housings against external mechanical loads. It is made up of the code letters IK and a two-digit number from 00 to 10. Each group of numbers stands for a load energy value in joules (J). The IK code always applies to

the complete housing, which guarantees the protection of resources against the damaging effects of mechanical loads. The housings are tested by knocking them with different testing hammers.

IK code	00	01	02	03	04	05	06	07	08	09	10
Stress energy value [J]	-	0.15	0.20	0.35	0.50	0.70	1	2	5	10	20

Nominal values of electrical equipment



When using junction boxes, connection sockets and connection terminals, the resources are assigned nominal values. In the designation, a distinction is made between the maximum approved voltage (nominal voltage), the

maximum approved current (nominal current) and the maximum approved cross-section (nominal cross-section of the cables to be connected).

**2,5
mm²**

Nominal cross-section

Largest tested-approved cross-section of the cables to be connected.

**16
A**

Nominal current

The nominal current is the highest permissible operating current that can be continuously passed through connections (e.g. terminals) marked with that value.

**660
V**

Nominal voltage

Greatest approved voltage at the connection point.

In addition to the nominal values, the number of entries for junction boxes and the number of poles of clamp connectors are also possible labels.

12

No. of poles

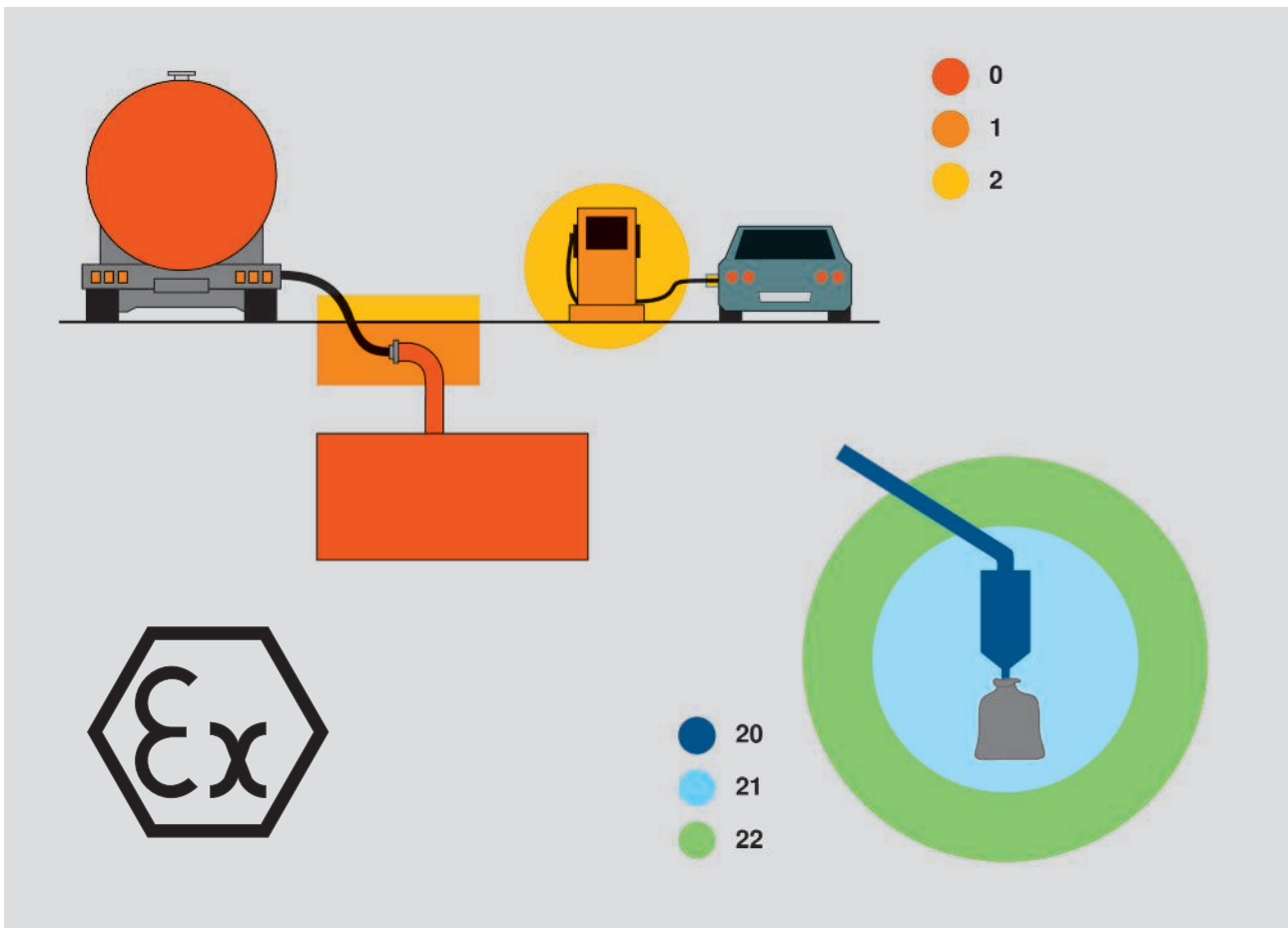
Number of connection points of the clamp connector.

7

Number of entries

Number of entries in an electrical connection box or connection socket.

Zone division for explosive areas



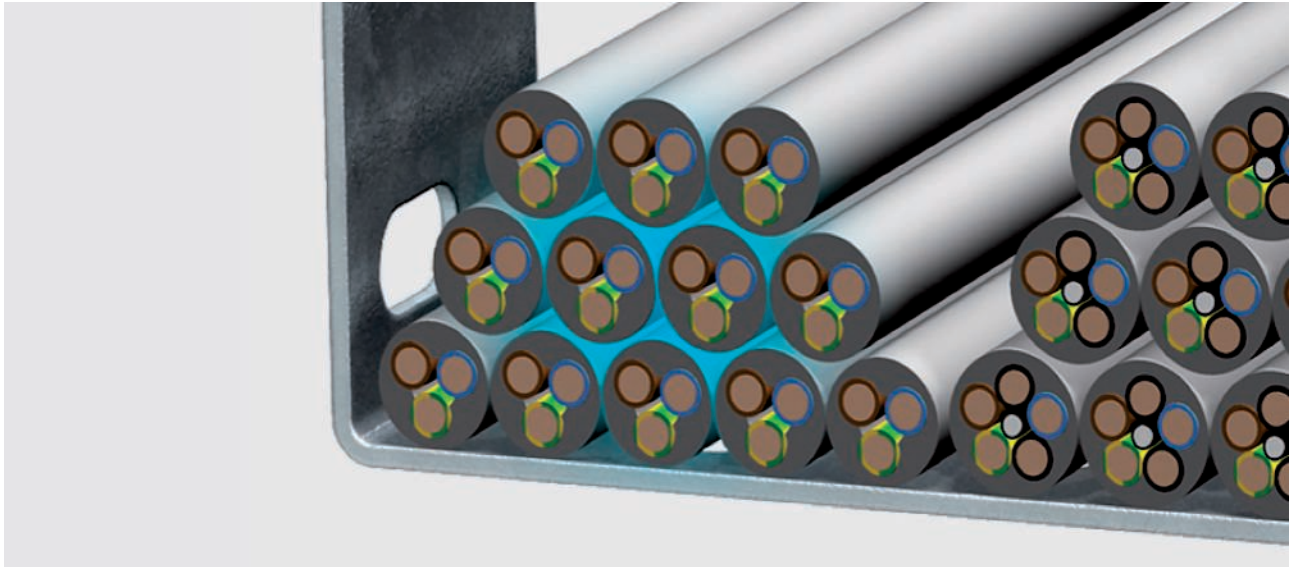
Products used in potentially explosive areas must comply with the ATEX directives. The ATEX workplace directive 1999/92/EC sets out the minimum requirements for improving the safety and health protection of workers at risk from potentially explosive atmospheres. The directive

divides areas with dangerous, potentially explosive atmospheres into zones. Ex-tested products may be used in the respective zones in accordance with their approval.

Zone allocation of device group II (applied)

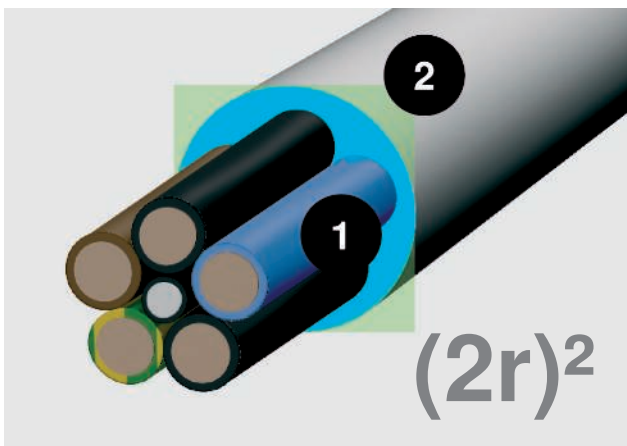
Gas	Dust
Explosive gas atmosphere, zone division to DIN EN 60079-10	Explosive dust/air mixtures, zone division to DIN EN 61214-10
Zone 0	Zone 20
An area in which it can be expected that, under normal conditions, an explosive atmosphere of gas occurs continuously or for long periods of time.	An area in which it can be expected that, under normal conditions, an explosive atmosphere of dust/air occurs continuously or for long periods of time.
Zone 1	Zone 21
An area in which it can be expected that, under normal conditions, an explosive atmosphere of gas occasionally occurs.	An area in which it can be expected that, under normal conditions, an explosive atmosphere of dust/air occasionally occurs.
Zone 2	Zone 22
Area, in which it can be expected that, under normal conditions, an explosive atmosphere of gas seldom or only briefly occurs.	Area, in which it can be expected that, under normal conditions, an explosive atmosphere of dust/air seldom or only briefly occurs.

Cable sizes



The term “cable” means a jacketed electrical cable for the transmission of electrical energy and data. Cables are given according to their nominal cross-section. The external diameter and usable cross-section depend on their nominal cross-section and the number of individual wires contained in the cable. When fastening clips or

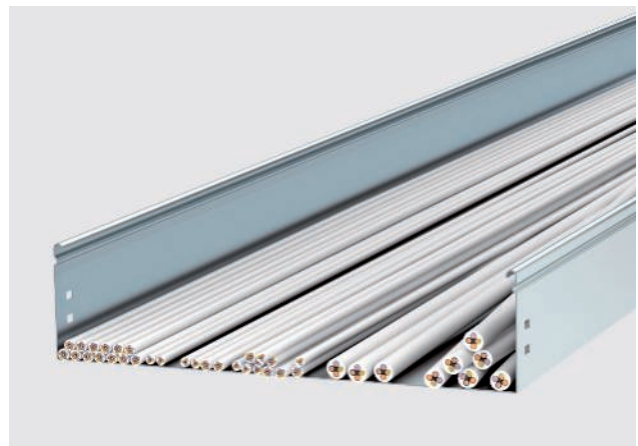
cable support systems are used, it is important to know the actual space requirements of the individual cables. It is not sufficient to take only the diameter as a basis for the calculation of the cable volume.



Circular area (1) and space required (2)

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.



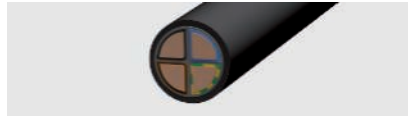
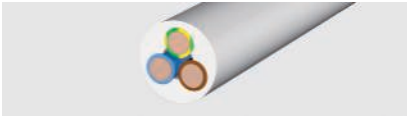
To save you work, we have listed the diameter and usable cross-section of the most important cable types below.

Important:

These values are average values, which may vary from manufacturer to manufacturer. Please refer to the manufacturer's specifications for the exact values.



Basic values for the calculation of the 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



IT cables type Cat...

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



Coax cable (Standard)

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

Selection of the correct fastening clip



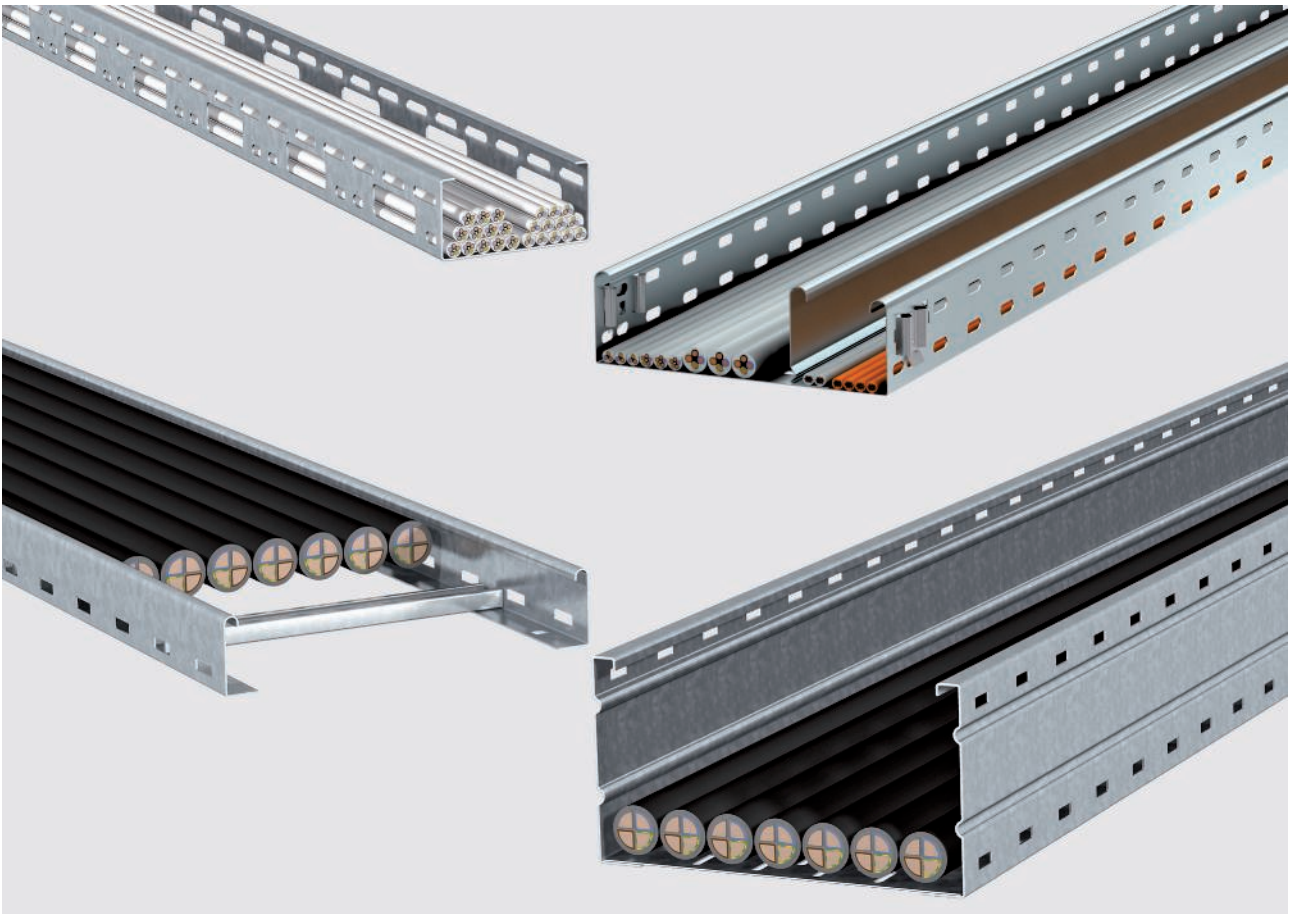
Fastening clips are given with their maximum span distance as a nominal size in mm. This makes it easy to determine the appropriate clip for the planned cable volume. If the necessary clamping range is between two nominal sizes, e.g. 16 mm, we recommend using the smaller nominal size.

If cables are not fastened directly in the clip, but routed through an installation pipe for example, the relationship between the external diameter and metric or PG sizes must be observed when selecting the correct fastening clip. You will find more information on this in the table below.

Overview of external diameters, metric and PG sizes

External diameter in mm	Metric size	PG size
Up to 12	M12	PG 7
Up to 16	M16	PG 9/PG 11
Up to 20	M20	PG 13.5/PG 16
Up to 25	M25	PG 21
Up to 32	M32	PG 21
Up to 40	M40	PG 36
Up to 50	M50	PG 42/PG 48
Up to 63	M63	-

Selection of the correct cable support system

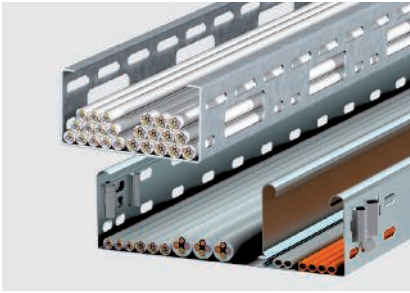


When selecting the right cable support system, the cable volume is not the only decisive factor. The type of cabling, method of laying and cable weight all play an important role. The most important aspects are explained on the following pages.

Cable types

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 taken into account? For all these applications OBO can offer tailor-made system solutions.

System types



Universal cable trays

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



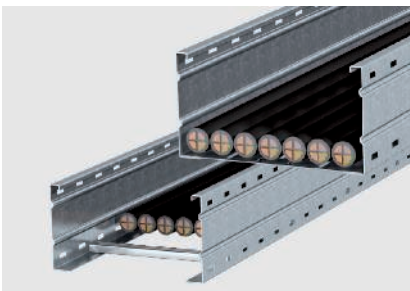
Mesh cable trays for the installation of light cables

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



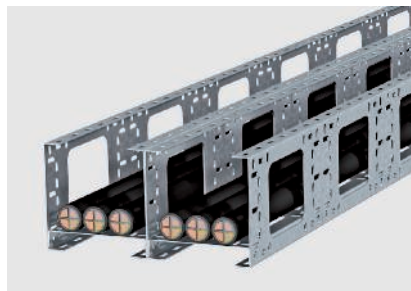
Cable ladders for power cables with a large cross-section

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 small duct for universal use

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

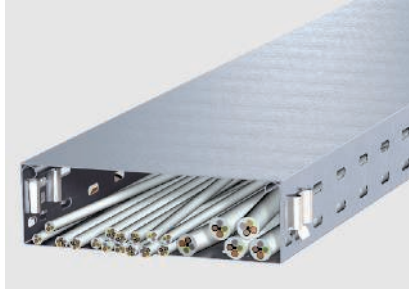


Finding the appropriate system for the planned cable volume



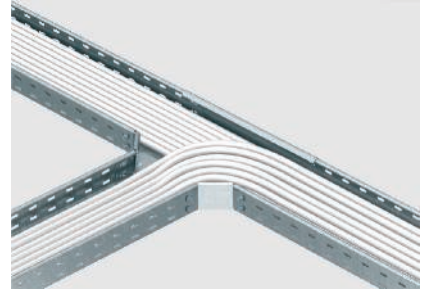
Cable height

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



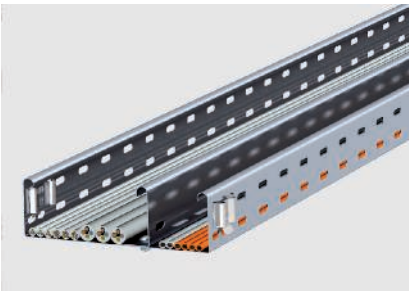
Volume reserve

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



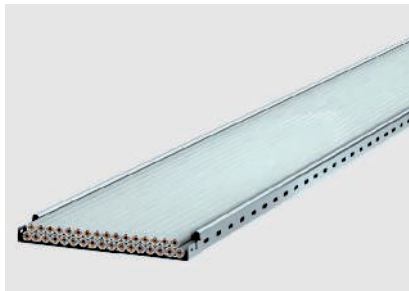
Branches

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



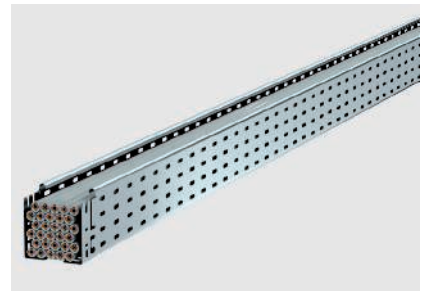
Separation of system levels

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

There are different requirements for laying data and power cables. Even if the usable cross-section or cable volume is the same, data cables tend to have a narrow, high tray, whereas power cables require a wide, flat version to avoid heat build-up.



Examples

Flat, wide variant:

- e.g. for power cables
- Cable tray width: 300 mm
- Side 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

Calculating the cable load



100 mm = 15 kg/m



200 mm = 30 kg/m



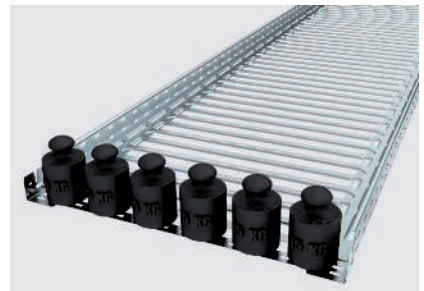
300 mm = 45 kg/m



400 mm = 60 kg/m



500 mm = 75 kg/m



600 mm = 90 kg/m

Of equal significance for the selection of the most suitable cable support system is the load capacity. 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

DIN VDE 0639 Part 1 (cable support systems) offers a formula for calculating the maximum permitted cable load. In the example calculation below, the maximum approved cable load for a cable tray is worked out using the dimension 60 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 following 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.

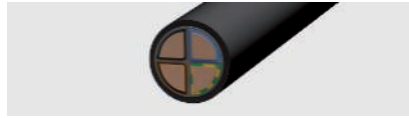
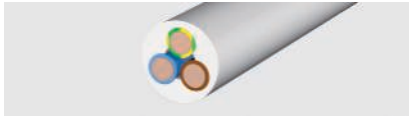
	0.028 N	
Cable load (F) =	-----	x Usable cross-section
	m x mm ²	

	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 load 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)

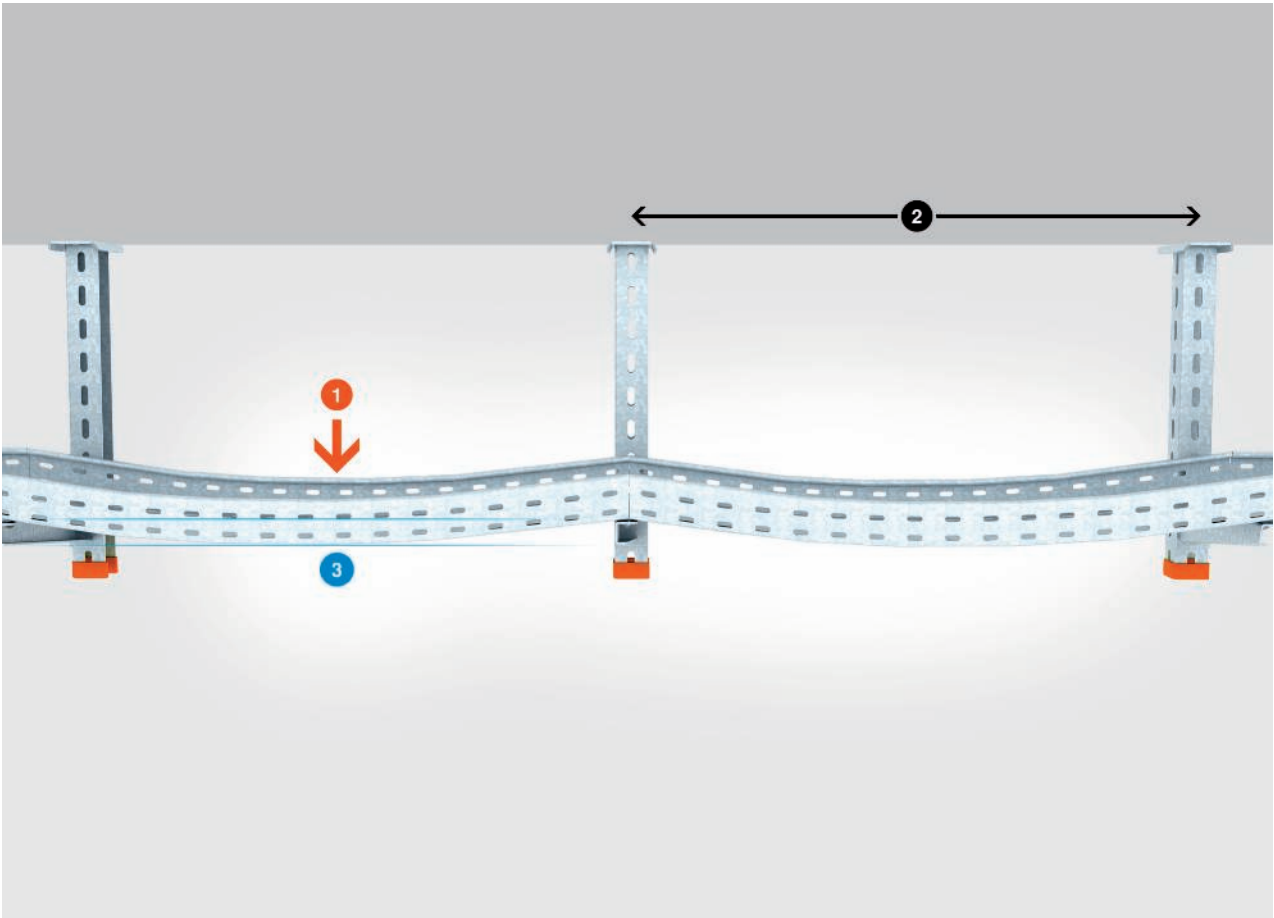
Type	Cable load kg/m
SAT/BK cable	0.06



IT cables type Cat...

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

Finding the appropriate system for the 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

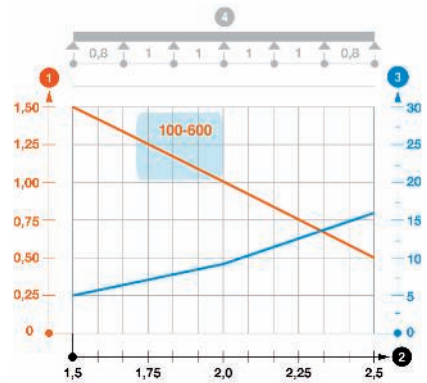
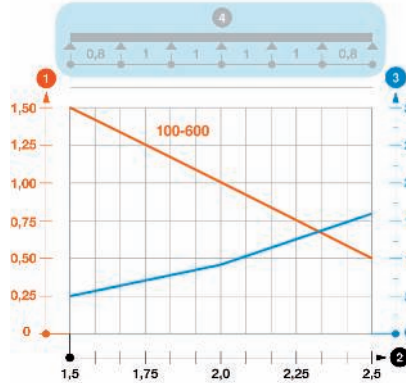
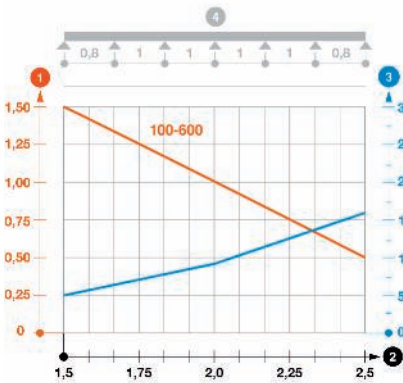
All OBO products and systems are subjected to practical load testing. The basic principles for the tests of OBO cable support systems are DIN EN 61537 and DIN VDE 0639. After the load test, the maximum load capacity can be determined for each component, depending on the support distances and specific article parameters, such as component dimensions. This is 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 on the following pages. The values given do not take into account resistance against environmental forces such as snow, wind and other outside influences.



Finding the appropriate system for the cable load



Load diagram, legend

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

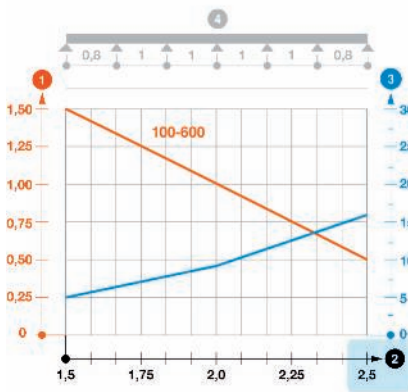
Information 1: The testing process

The basic principles of the tests of OBO cable support systems come from VDE 0639 Part 1 and DIN EN 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 example schematises the experiment set-up with a variable support spacing (L) in the central area and a factor of 0.8 x L at the front and rear ends of the cable tray.

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

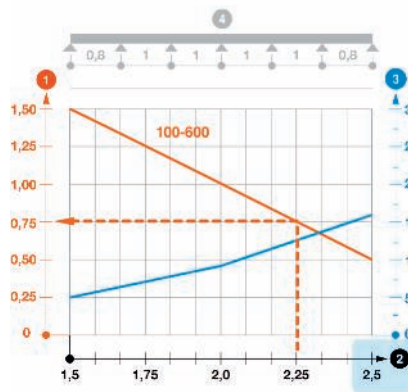
The load capacity of the cable trays according to the support width can be read off in the diagram using the load curves – this is an example for a cable tray for the tray widths 100 to 600 mm. It may occur that in the load curves, width differences must be made, allowing multiple curves to be visible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

Finding the appropriate system for the cable load



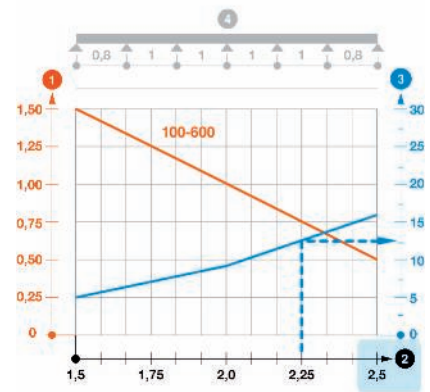
Information 3: Possible support spacings

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.

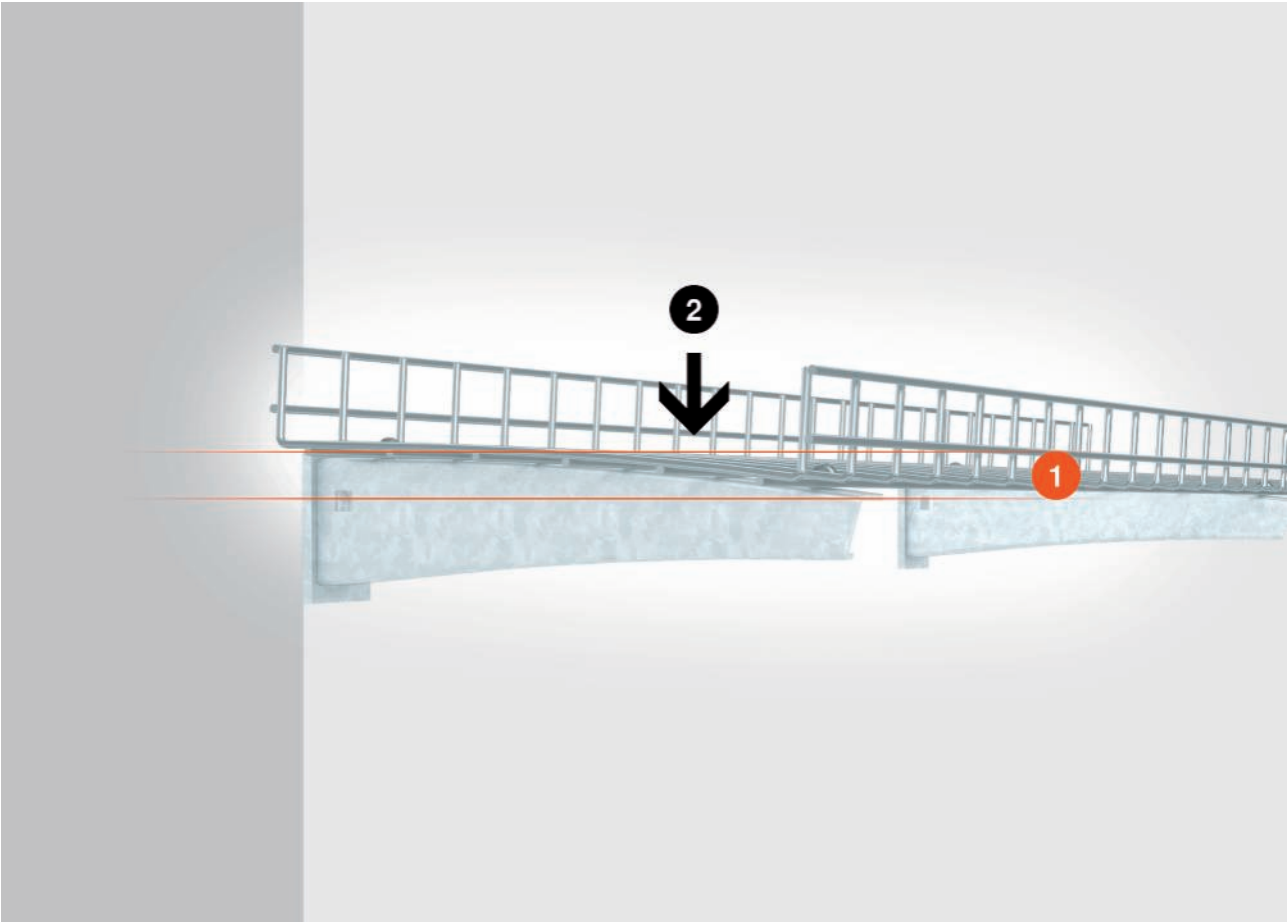


Information 5: W = Rail bending

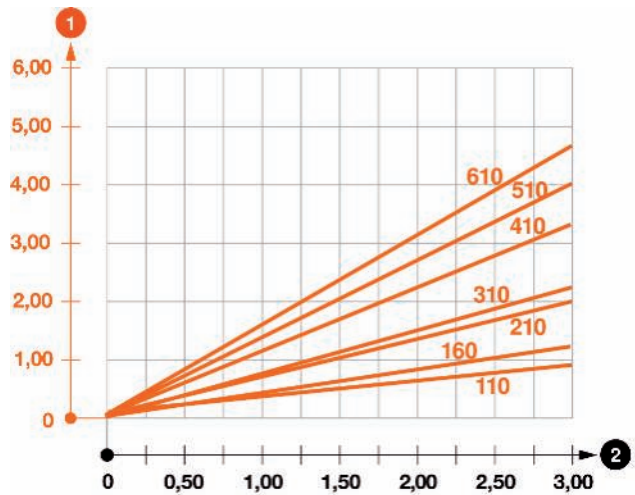
To what extent does the load on a cable tray cause the rail to bend? This information is supplied by the blue curve (w) in millimetres (orientation values on the axis on the right-hand side of the diagram).

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.

Finding the appropriate bracket for the cable load

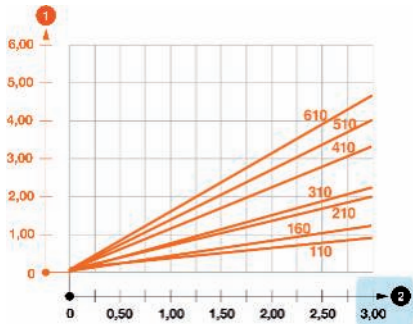


Key components of the OBO cable support systems are the parts for mounting, in particular the brackets and suspended supports. They connect the cable trays and ladders to the wall and to the ceiling, and are thus an important construction element of the overall system. When calculating the load capacity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



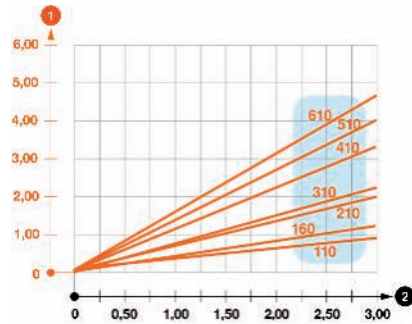
Load diagram, legend
 1 = Bend in mm at the bracket tip
 2 = Load without man load in kN/m
 -- = Load curves for the different bracket lengths

Finding the appropriate bracket for the cable load



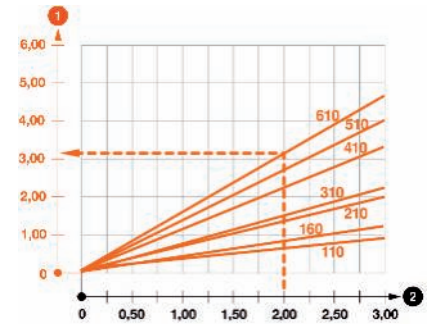
Information 1: Recommended maximum load of the brackets

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.



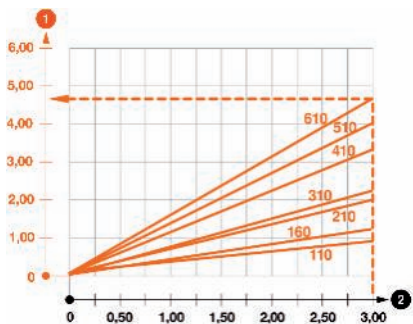
Information 2: Load curves for all bracket widths

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

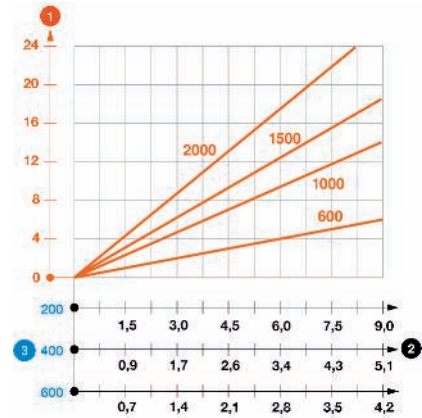
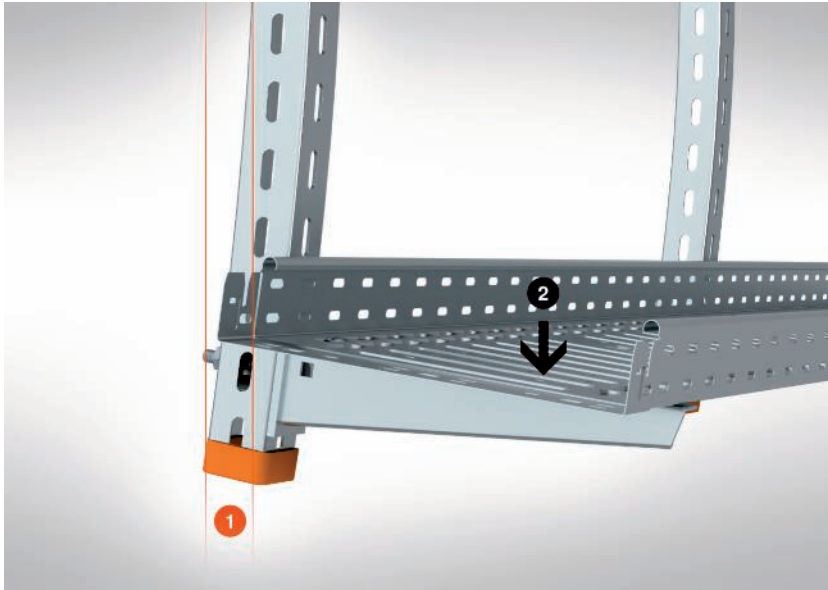
The load curve in the diagram provides information on the bending of the boom tip at a specific load. In our example (dotted orange line), a 610 mm-wide bracket with a load of 2 kN bends by approx. 3.1 mm. A basic rule of thumb is: The shorter the bracket, the less the bend will be.



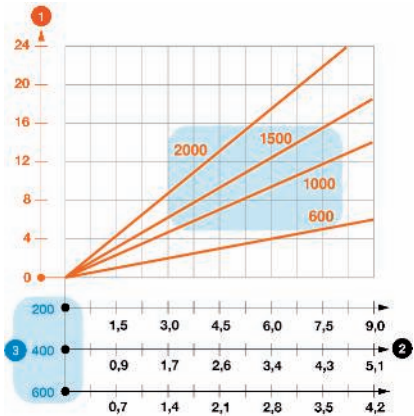
Information 4: Bending of the bracket tip at maximum load

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.

Finding the appropriate support for the cable load

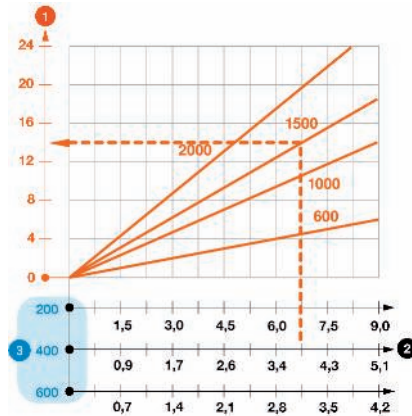


Load diagram, legend
 1 = Bend in mm at the bracket tip
 2 = Load without man load in kN/m
 -- = Load curves for the different bracket lengths



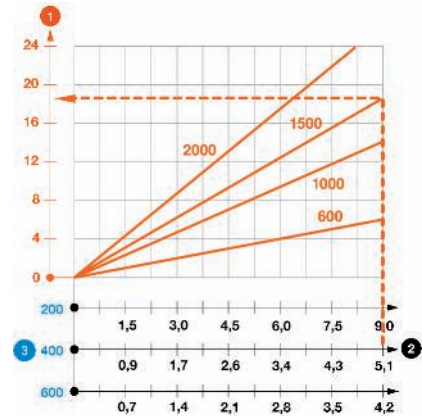
Information 1: Various support lengths and bracket widths

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.

Cable glands and the DIN EN 62444 standard

Cable glands are manufactured and tested according to DIN EN 62444. Amongst other things, this standard controls the retaining ability and strain relief of cables. The V-TEC cable glands from OBO Bettermann correspond to version "A". Table 2A indicates the extraction forces that these cable glands must withstand according to the standard. The V-TEC cable glands also fulfil the requirements of DIN EN 62444 with regard to the

twist protection of cables (see Table 3). To ensure the tested dust and moisture protection of the cable glands, continuous perforations should correspond to the mounting openings specified in the standard DIN EN 62444 according to Table 1. The on-site specialist must ensure that these parameters are complied with in order to hand over a functioning system.

Table 1

Size of the penetration hole	mm	6	8	10	12	16	20	25	32	40	50	63	75
Thread of the cable gland	M	M6	M8	M10	M12	M16	M20	M25	M32	M40	M50	M63	M75
Diameter of the mounting hole (+0.2/-0.4)	mm	6.5	8.5	10.5	12.5	16.5	20.5	25.5	32.5	40.5	50.5	63.5	75.5

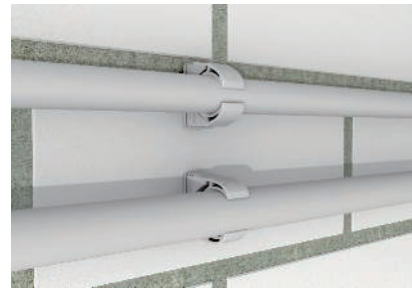
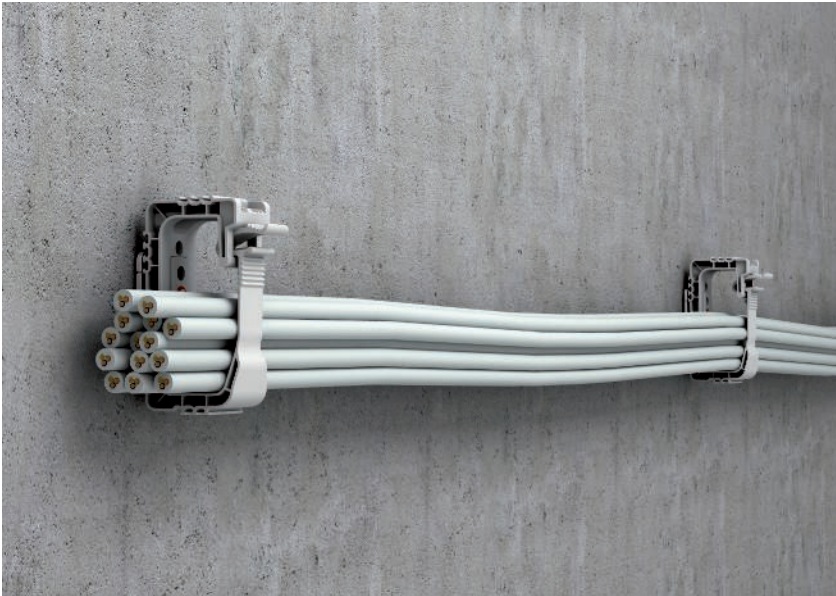
Table 2 A

Cable diameter	Retaining capacity	Strain relief, version A
mm	N	N
to 4	5	–
>4 to 8	10	30
>8 to 11	15	42
>11 to 16	20	55
>16 to 23	25	70
>23 to 31	30	80
>31 to 43	45	90
>43 to 55	55	100
>55	70	115

Table 3

Cable diameter	Torque Version A and B
mm	Nm
>4 to 8	0.10
>8 to 11	0.15
>11 to 16	0.35
>16 to 23	0.60
>23 to 31	0.80
>31 to 43	0.90
>43 to 55	1.00
>55	1.20

Information on cable fastenings



Cable fastening

The standard DIN EN 61914 "Cable holders for electrical installations" specifies that cable holders "must be able to accept cables or cable bundles of the diameter specified by the manufacturer or responsible retailer, without tearing or breaking or shearing off the threads of bolts".

During the installation of cables, the current national and international standard must be taken into account, such as DIN VDE 0100 520. "Suitable tools and methods, which prevent damage or changes to the shape" must be used for fastening.

In addition, with masses of cables, DIN VDE 0298 requires the appropriate "load capacities of cables for fixed laying in and on buildings..." to be taken into account when selecting the fastening systems.

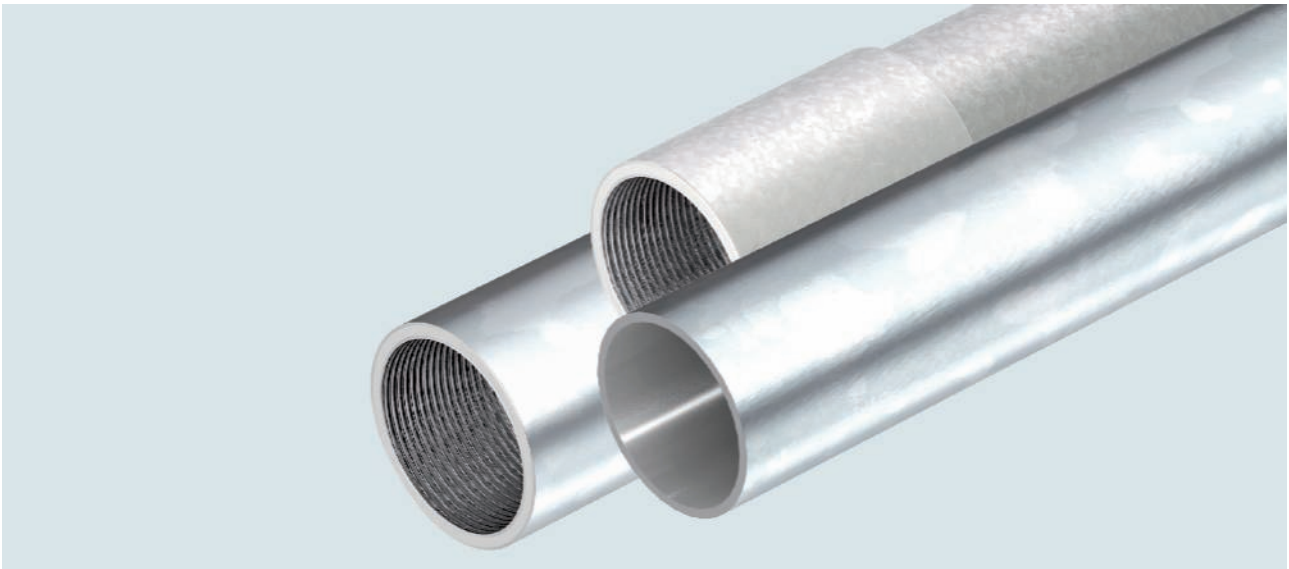
Besides these standardising aspects, the end customer's or client's particular laying specifications can/must be taken into account.

The fastening spacing for cables is given in DIN VDE 0100-520, June 2013. For example, cables laid horizontally require a spacing of 20x the cable diameter. However, a spacing of 80 cm should not be exceeded. With vertical routing, the clip spacings may be increased but should not exceed 1.5 m.

The table below shows the maximum fastening spacings for cables according to the cable diameter. The laying spacings given in the Industrial installation product catalogue, e.g. for bus holders or Quick clips, are guide values and can only be treated as such.

External diameter of the cables mm	Maximum spacing for horizontal fastening mm	Maximum spacing for vertical fastening mm
$D \leq 9$	250	400
$9 < D \leq 15$	300	400
$15 < D \leq 20$	350	450
$20 < D \leq 40$	400	550

IEC classification in accordance with DIN EN 61386-1

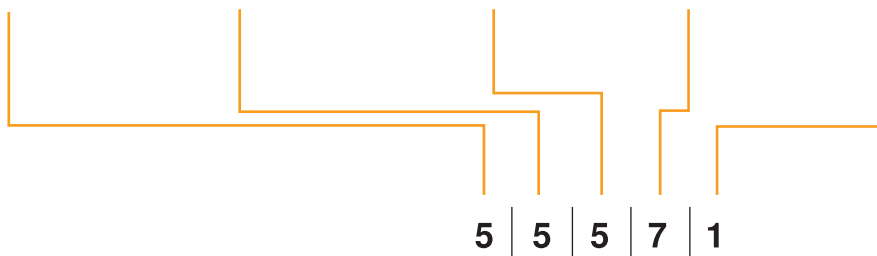


The OBO Bettermann pipe systems are machined and tested according to DIN EN 61386 (Electrical installation pipe systems for electrical energy and information) and DIN EN 60423 (External diameters of electrical installation pipes and thread for electrical installation pipes and their accessories).

Numeric code

DIN EN 61386-1 classifies installation pipes using a 12-digit numeric code, which provides information on the pressure resistance, impact resistance or use temperatures. You can find the first five digits in the product descriptions of the pipe systems.

	First digit		Second digit		Third digit		Fourth digit		Fifth digit
	Pressure resistance		Impact resistance		Lower temperature range		Upper temperature range		Bending behaviour
1	Very light (125 N)	1	Very light (0.5 kg/100 mm)	1	+5 °C	1	+60 °C	1	Rigid
2	Light (320 N)	2	Light (1.0 kg/100 mm)	2	-5 °C	2	+90 °C	2	Bendable
3	Medium (750 N)	3	Medium (2.0 kg/100 mm)	3	-15 °C	3	+105 °C	3	Pliable, self-recovering
4	Heavy (1,250 N)	4	Heavy (2.0 kg/300 mm)	4	-25 °C	4	+120 °C	4	Flexible
5	Very heavy (4,000 N)	5	Very heavy (6.8 kg/300 mm)	5	-45 °C	5	+150 °C		
						6	+250 °C		
						7	+400 °C		





Classification according to IEC EN 61386-1: Composition of the IP code

7th digit		8th digit	
	Ingress of solid bodies		Ingress of water
0		0	None declared
1		1	Protected against vertically falling water drops
2		2	Protected against vertically falling water drops, when the pipe system is tilted up to an angle of 15°
3	Protected against solid foreign objects of 2.5 mm Ø and greater	3	Protected against spraying water
4	Protected against solid foreign bodies of 1.0 mm Ø and larger	4	Protected against splashing water
5	Dust-protected	5	Protected against water jets
6	Dust-proof	6	Protection against powerful water jets
7		7	Protected against the effects of temporary immersion in water

Classification according to IEC EN 61386-1: Corrosion protection

9th digit		Suitable surfaces
Resistance against corrosion		
1	Low protection, inside and outside	
2	Medium protection, inside and outside	<ul style="list-style-type: none"> • Black coated (SW) • Electrogalvanised (G) • Strip galvanised (FS)
3	Medium protection inside, high protection outside	
4	High protection inside and outside	<ul style="list-style-type: none"> • Hot-dip galvanised (FT) • Stainless steel (V2A, V4A)



Protection against mechanical loads

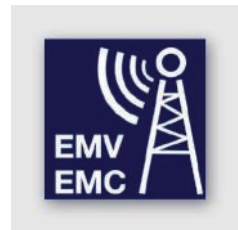
OBO metal pipes are particularly suited to use under tough industrial conditions. They provide reliable protection against very heavy mechanical loads during cable routing.

The different material and surface qualities, from galvanised to painted, allow perfect adaptation to the requirements of the appropriate environment.

Maintenance of electrical function to E30/E90

Our steel pipes guarantee the maintenance of electrical function to E30/E90. They are thus ideal for the connection of safety-relevant equipment, such as smoke extraction systems.

Definition of electromagnetic compatibility (EMC)



Recent years have seen the use of electronic circuits increase continually. Whether in industrial systems, medicine, households, telecommunications systems or electrical building installations – we find powerful electrical equipment and systems everywhere, and these switch ever greater currents, achieve greater radio ranges and transport ever more power 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 (immission) 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, result in 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 - Lightning strike - Welding devices	- Galvanic - Inductive - Capacitive - Electromagnetic	- Process computer - Radio receiver systems - Controllers - Converters - Measuring units



Guaranteeing 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 device being influenced, 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

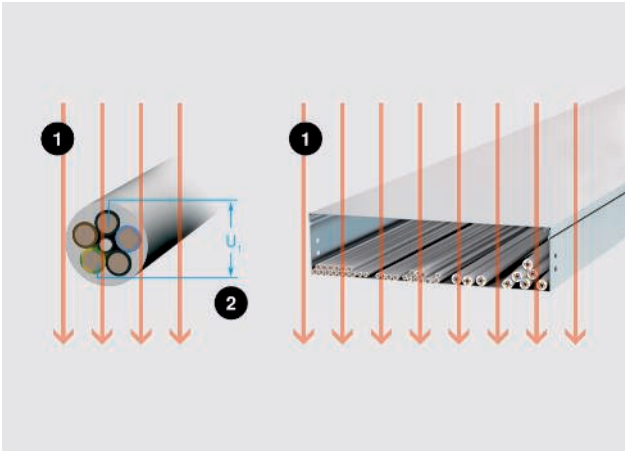
Cable support systems can make an important contribution to the improvement of EMC. They are passive and can thus make a safe, long-lasting

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 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 set-up: without cable support system on the left, with cable support system on the right. 1 = Field H, 2 = $V1 L_{ZUPE}$

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 5x6 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 αS 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.

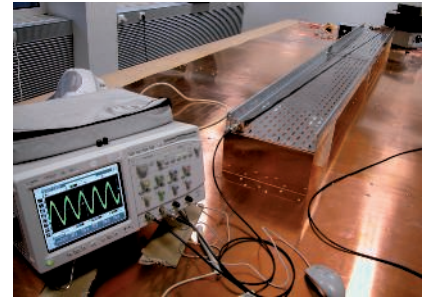
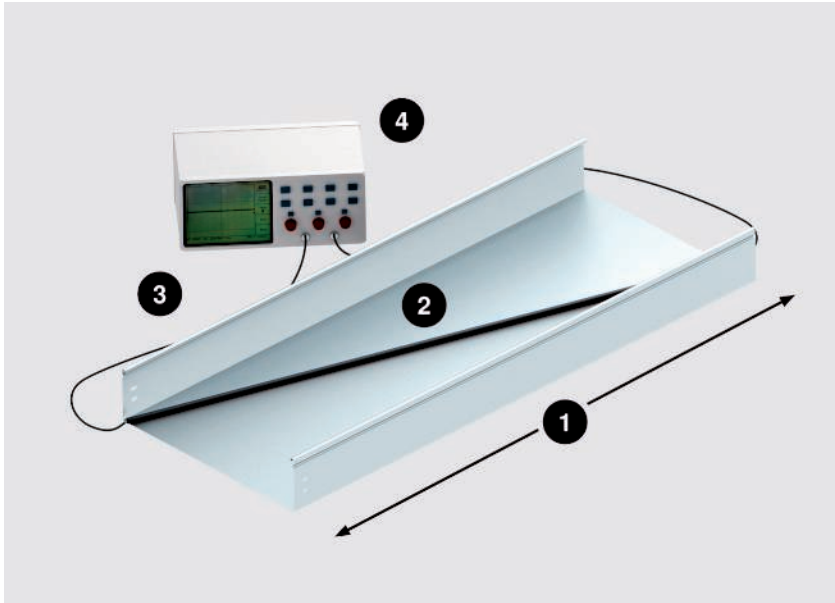
Note:

The shield insulation against electrical fields is almost perfect, as it is with 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	25
LG 630 NS FT	10	15

Transfer impedance of cable support systems



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

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

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

Maintenance of electrical function



Safety in the event of fire

To ensure that emergency and escape routes and important technical equipment such as emergency lighting, fire alarm systems and smoke exhaust systems remain usable in case of fire, it is absolutely essential to provide special protection for the power supply for these systems. The use of special cables and routing systems means that it is possible to maintain the power supply, even in the event of fire, thus guaranteeing the maintenance of electrical function.

You can find detailed information on the subject of fire protection in the OBO protective installation catalogue.

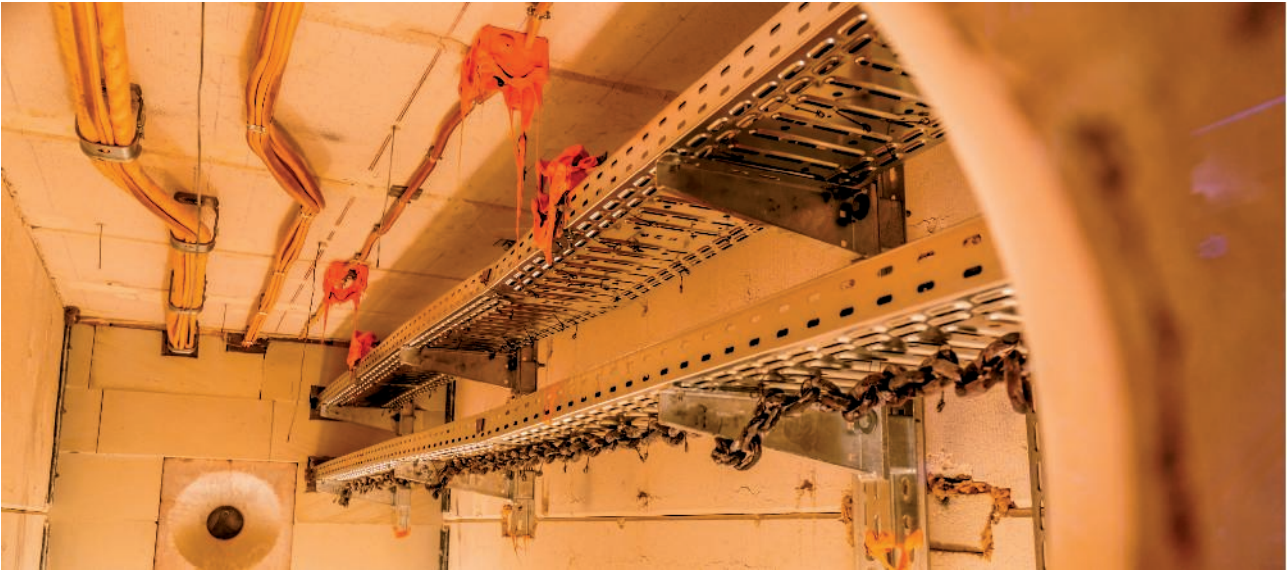
The maintenance of electrical function is particularly important in buildings regularly frequented by large numbers of people. These include public buildings such as schools, hospitals, meeting places, civic buildings and underground stations, but also industrial plants, high-rise buildings, shopping centres and large car parks.

Fire loads of installation systems

According to rules governing wiring systems in the individual German federal states, no fire loads may be installed in emergency and escape routes. OBO's fire-tested steel fastenings fulfil these requirements.



Junction boxes which have the capability to maintain electrical function ensure the fireproof connection of the safety cables. The boxes in the FireBox series are tested and approved to maintain electrical function for 30 to 90 minutes in accordance with DIN 4102-12.



E30

30 minutes: Maintaining electrical function for an evacuation.

The first 30 minutes after the start of a fire are decisive when clearing the affected building.

During this time, the maintenance of electrical function must be guaranteed for the following units:

- Safety lighting systems
- Lifts with fire control
- Fire alarm systems
- Alarm systems and systems to issue instructions to visitors and employees
- Smoke extraction systems

E90

90 minutes: Maintenance of electrical function for better firefighting

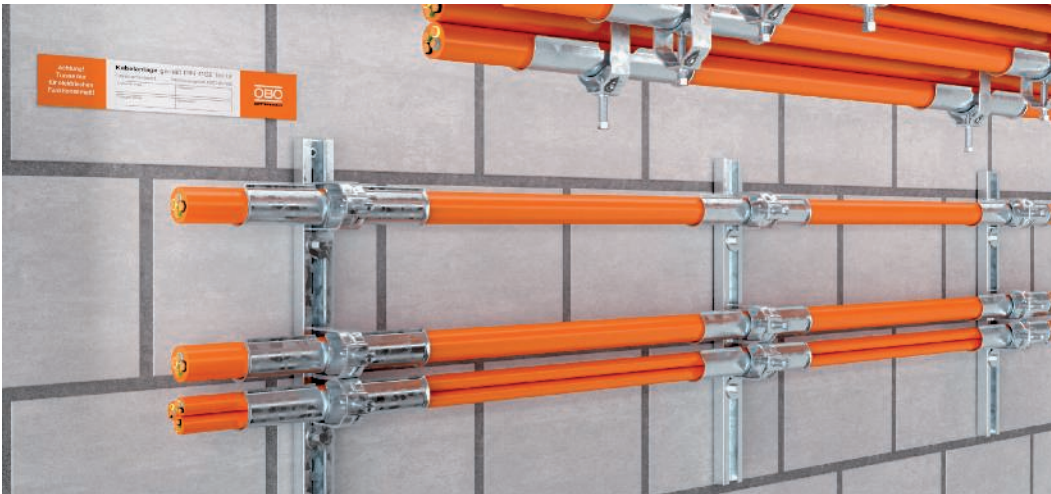
To support firefighting operations, it is imperative that certain technical equipment is supplied with sufficient power even up to 90 minutes after a fire breaks out in a building. This equipment includes:

- Systems to increase the pressure of the water for fighting the fire
- Mechanical smoke extraction and smoke protection pressure systems
- Fire brigade lifts, bed lifts in hospitals

Individual routing systems for the maintenance of electrical function

With the individual laying systems, OBO Bettermann can offer a range of practical, flexible mounting options for electrical installations with the maintenance of electrical function. The systems are suited to vertical and horizontal installation and are approved for the fire protection classes E30 to E90. Standardised supporting

constructions as defined in the testing standard, DIN 4102 Part 12, include: The routing of cables with individual clips and the routing of cables with profile rail, clamp clip and a long trough.



- E30
- E60
- E90

Standard routing type, clamp clip type 2056

Standard support construction consisting of clamp clip without long trough for individual laying or bundling cables.

- Wall or ceiling mounting
- Horizontal installation
- Rail mounting: max. 0.3 m
- Anchor spacing in the rail: max. 0.25 m
- Individual cable assignment: diameters of up to 100 mm possible
- Assignment with bunched cables: Max. 3 cables with max. diameter 25 mm



- E30
- E60
- E90

Cable tidy

Cable-specific laying type with cable tidies for individual laying, horizontal/vertical mounting on wall or ceiling.

Type 2031/M 30

- Fastening distance: max. 0.5 m
- Cable assignment: max. 2.5 kg/m

Type 2031/M 15

- Fastening distance: max. 0.5 m
- Cable assignment: max. 1.1 kg/m

Type 2031/M 70

- Fastening distance: max. 0.8 m
- Cable assignment: max. 6.0 kg/m



E30

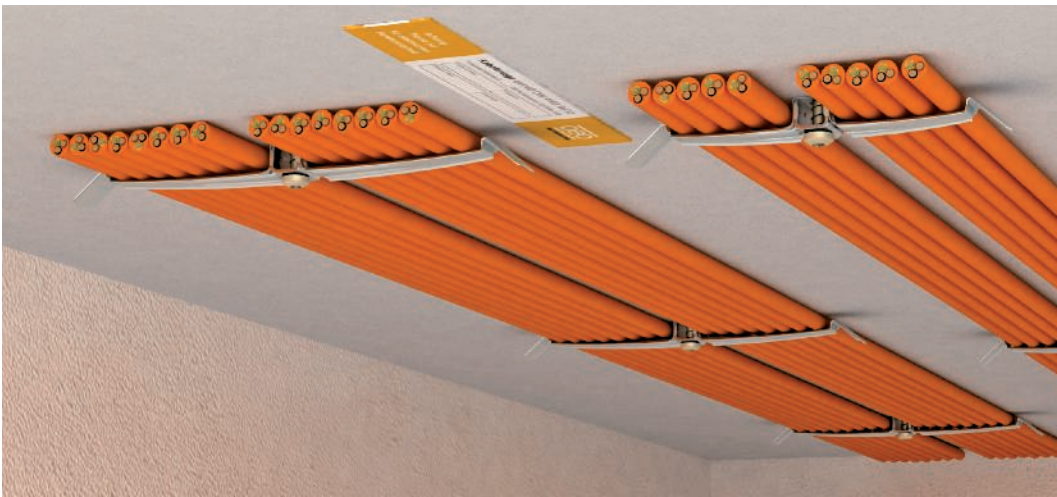
E60

E90

Standard routing type, single clip type 732/733

Standard support construction consisting of spacer clips for individual laying or bundling cables.

- Wall or ceiling mounting
- Vertical or horizontal mounting
- Mounting spacing: max. 0.3 m
- Individual cable assignment: diameters of up to 50 mm possible
- Assignment with bunched cables: Max. three cables with max. diameter 25 mm



E30

Pressure clip

Cable-specific laying type with pressure clips for individual laying, mounting on the ceiling.

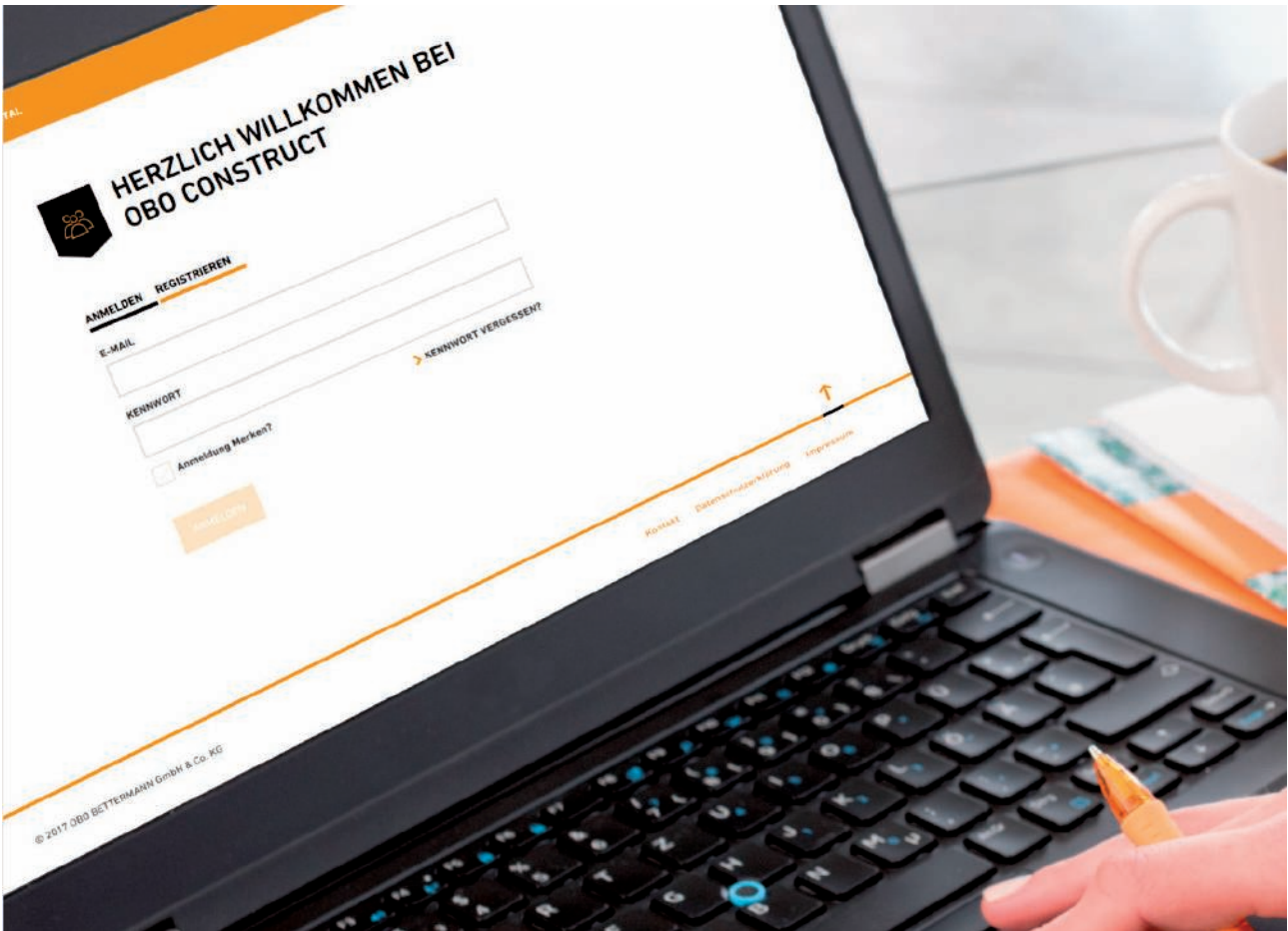
Type 2033 M

- Fastening distance: max. 0.5 m

Type 2034 M

- Fastening distance: max. 0.5 m

OBO Construct – planning software and product configurators



The OBO Construct programs are electronic planning aids – developed in order to support electrical engineers and planners in their planning of electrical installation projects.

Due to the systematic search of technically relevant planning parameters, these programs simplify the search for suitable products and the appropriate accessories.

All new OBO Construct apps have a responsive design. They can be opened on any device, independent from the operating system.

Benefits:

- Work aid independent of time and place
- Transfer planning requirements into complete product systems
- Find suitable products quickly and simply
- Calculate quantities automatically
- Download configuration results as Excel or Word files

Currently available versions:

- Cable support systems
AutoCAD Plug-in Version 3.0
(AutoCAD full version from 2013)
- Underfloor systems
Planning Tool Version 3.0
(web app for all devices)
- Transient and lightning protection systems
Earthing systems Version 1.0
(web app for all devices)
- Fire protection systems
Selection aid for insulations, Version 3.0
(web app for all devices)
- Transient and lightning protection systems
Surge protection Version 1.0
(web application)
- Cable support systems
Cable assignment Version 3.0
(web app for all devices)

More information

www.obo-construct.com

Standards, specifications and certifications



Standards

OBO offers products for professionals, made by professionals. Our products are manufactured and tested according to the respective specifications of the standards. For example, DIN EN 61537 describes all the relevant parameters for cable support systems, such as the area of application, test conditions, corrosion resistance and temperature classification. As a highly competent manufacturer, OBO subjects itself to these requirements on a daily basis. Comprehensive test procedures guarantee that systems which conform to standards function safely.

Specifications

All the OBO products and systems are CE-compliant according to the appropriate EC guidelines. 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 product information and the general safety regulations must be complied with during installation and use.

Certifications

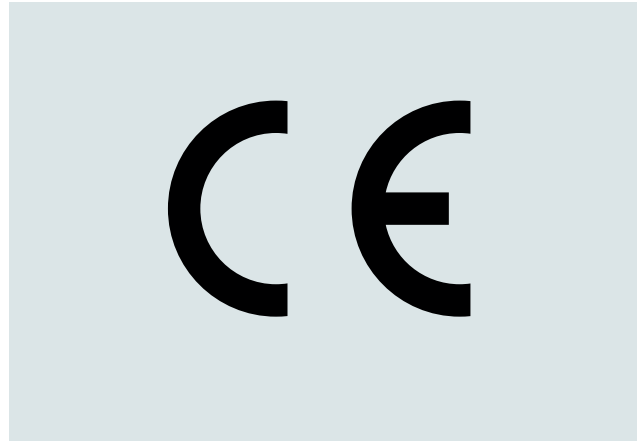
For OBO, product quality is closely connected to continuous testing and checking – which is why we manufacture almost all our products ourselves. This enormous depth of production is an expression of our demand for quality. From construction, and the materials used through production, right up to logistics, 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.

Certificates and test marks



VDE

VDE is the Association for Electrical, Electronic and Information Technologies, their study and the technologies and applications based upon them. The VDE mark on electrical equipment is proof that the equipment complies with VDE regulations and/or European or international harmonised standards, and meets the safety requirements of the applicable directives. The VDE mark indicates that a product is safe in relation to electrical, mechanical, thermal, toxic, radiological and other hazards.



CE symbol

Technical resources included in a legal ordinance, i.e. electrical resources, machines and safety components, must have a CE symbol, with which the manufacturer confirms that the safety requirements of the ordinances are fulfilled. In addition, there must also be a declaration of conformity and technical documentation. The CE symbol is not a quality mark, but simply a declaration by the manufacturer that they have complied with the legal requirements and the codes of practice.



UL

Underwriters Laboratories (UL) is an independent organisation that tests and certifies product safety. UL certification is generally required if a product is to be sold on the US market.

UL offers various certification options: The "UL Listed"



test mark indicates that UL has tested representative samples of a product and that it conforms to UL's safety requirements. The "UL Recognized" component test mark entitles a product to be used in a product or system bearing the "UL Listed" test mark.



OBO seminars: First-hand knowledge

With a comprehensive programme of training courses and seminars, OBO supports its customers with first-hand specialist knowledge. Besides the theoretical principles, practical everyday implementation is also dealt with. 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

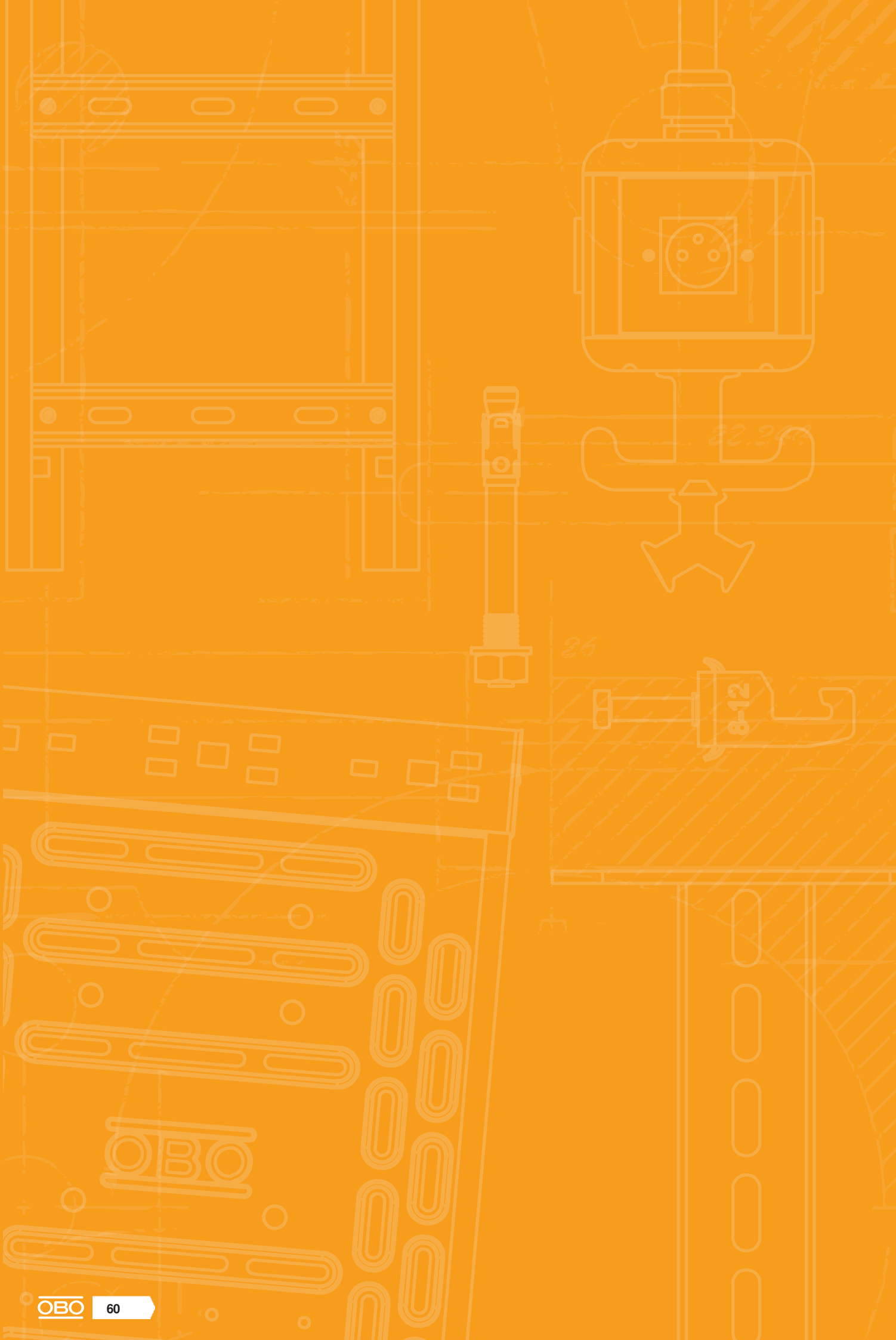
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Test marks

	American Bureau of Shipping, USA		Underwriters Laboratories Inc., USA + CSA, Canada
	AENOR, Producto Certificado, Spain		Österreichischer Verband für Elektrotechnik, Austria
	STOWARZYSZENIE ELEKTRYKÓW POLSKICH, Poland		ISTITUTO ITALIANO DEL MARCHO DI QUALITÀ, Italy
	Lightning current-tested		RINA 1861, Ship Classification, Certification and Services
	Lightning current-tested, Class H (100 kA)		Underwriters Laboratories Inc., USA
	CEBEC, Belgium		SEMKO An Inchcape Testing Services Company, Sweden
	Canadian Standards Association, Canada		Eidgenössisches Starkstrominspektorat, Switzerland
	DEMKO, Danmarks Elektriske Materielkontrol, Denmark		South African Bureau of Standards
	Deutsches Institut für Bautechnik Berlin, Germany		Shock-tested, Bundesamt für Zivilschutz, Germany
	Det Norske Veritas		Sähkötarkastuskeskus Elinspektionscentralen Electrical Inspectorate, Finland
	ENEC Austria		Underwriters Laboratories Inc., USA
	ATEX certificate for explosive areas		Underwriters Laboratories Inc., USA
	ELEKTROTECHNICKÝ ZKUŠEBNÍ ÚSTAV, Czech Republic		Verband der Elektrotechnik, Elektronik, Informationstechnik e.V., Germany
	FIMKO, Finland		German Association of Electricians, tested safety
	Forschungs- und Materialprüfungsanstalt, Germany		5-year warranty
	Russia, GOST The State Committee for Standards		
	Test marks for technical resources, VDE Prüf- und Zertifizierungsinstitut Offenbach, Germany		
	Halogen-free; without chlorine, fluorine and bromine		
	INMETRO, Brazil		
	KEMA-KEUR, Netherlands		
	Indication of metric products		
	MAGYAR ELEKTROTECHNIKAI ELLENŐRZŐ INTÉZET Budapest, Hungary		
	NEMKO, Norway		
	AFNOR Quality symbol of the French standardisation institute		





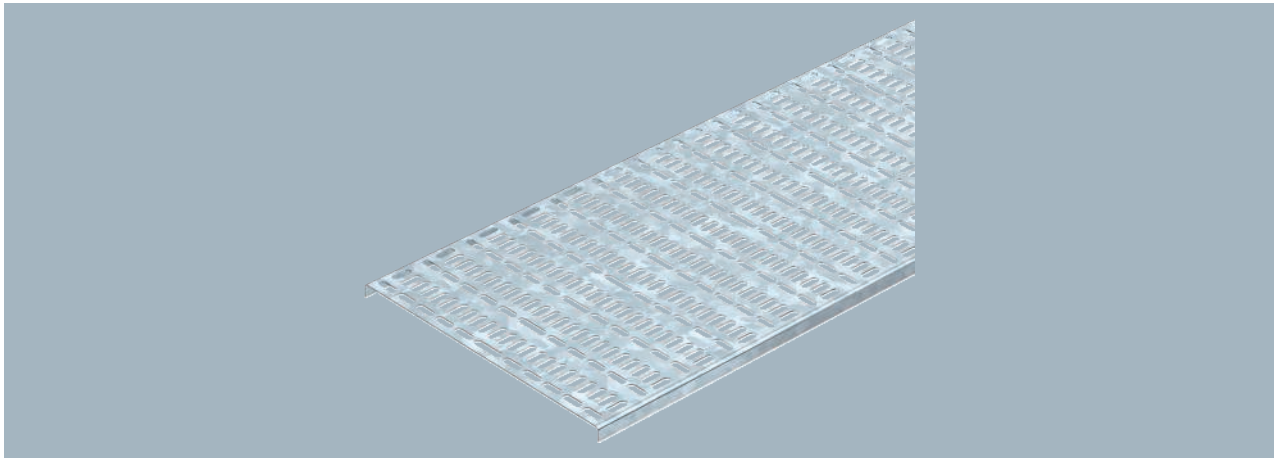
Cable trays

	Side height 15 mm	62
	Side height 35 mm	68
	Side height 60 mm	88
	Side height 85 mm	170
	Side height 100 mm	198
	Side height 110 mm	200
	Side height 200 mm	238
	System accessories, cable trays	240



Cable tray, marine standard MKR 15

St FS

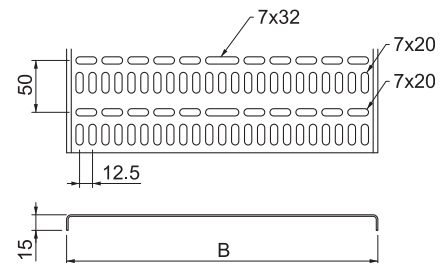


Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
MKR 15 050 FS	50	1.00	2	49.400	6045952
MKR 15 075 FS	75	1.00	2	63.700	6045960
MKR 15 100 FS	100	1.00	2	75.850	6045979
MKR 15 150 FS	150	1.00	2	102.800	6045995
MKR 15 200 FS	200	1.00	2	129.850	6046002

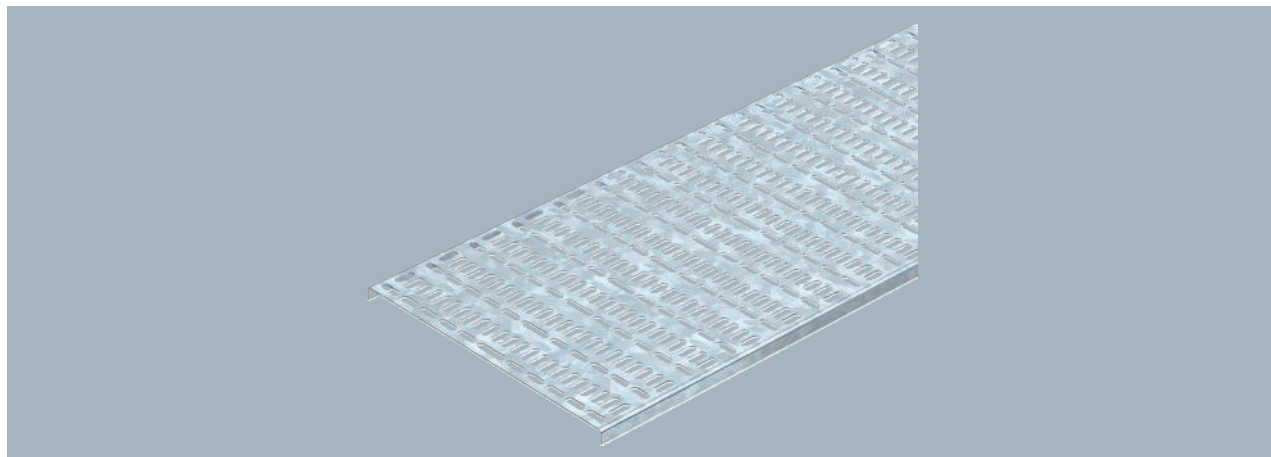
Cable tray for use in ship construction, produced according to the marine standard VG 88900-1.

Type	Length mm	Dim. 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 15 150 FS	2000	150	15
MKR 15 200 FS	2000	200	15

Dimensions



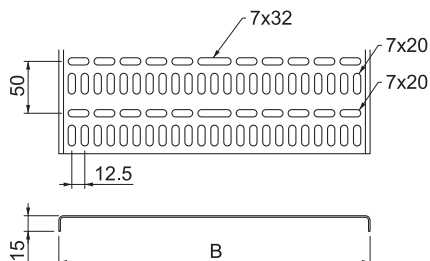
Cable tray, marine standard MKR 15



Cable tray for use in ship construction, produced according to the marine standard VG 88900-1.

Type	Width mm	Metal 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	94.650	6046374
MKR 15 125 FS	125	1.25	2	113.400	6046375
MKR 15 150 FS	150	1.50	2	154.100	6046376
MKR 15 200 FS	200	1.50	2	194.700	6046004
MKR 15 250 FS	250	1.50	2	235.250	6046379
MKR 15 300 FS	300	1.50	2	275.850	6046029
MKR 15 400 FS	400	1.50	2	357.000	6046037
MKR 15 050 FT	50	1.25	2	66.750	6045057
MKR 15 075 FT	75	1.25	2	85.950	6045073
MKR 15 100 FT	100	1.25	2	102.200	6045103
MKR 15 125 FT	125	1.25	2	122.450	6045138
MKR 15 150 FT	150	1.50	2	164.350	6045154
MKR 15 200 FT	200	1.50	2	207.600	6045200
MKR 15 250 FT	250	1.50	2	250.900	6045251
MKR 15 300 FT	300	1.50	2	294.150	6045308

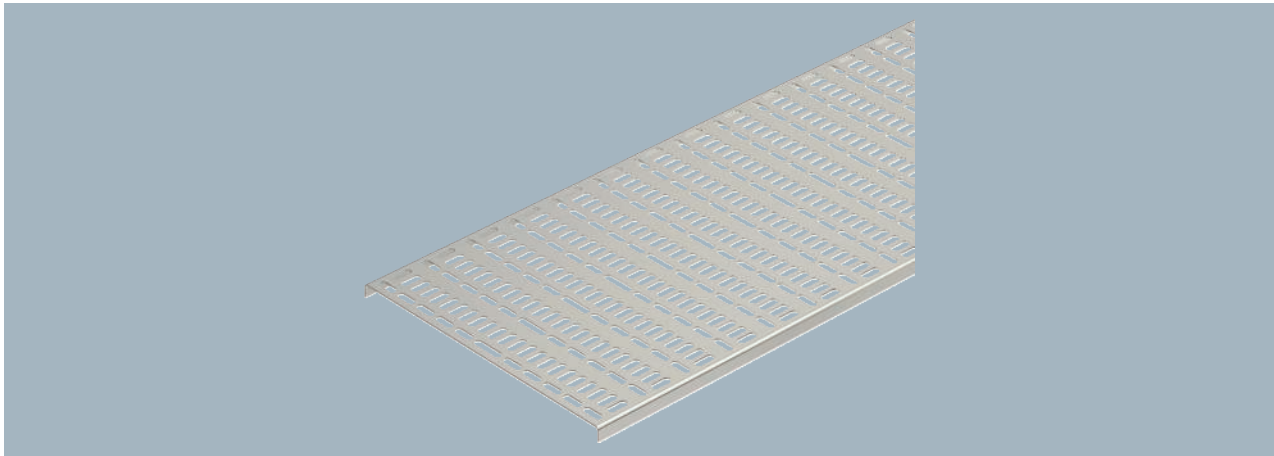
Dimensions



Type	Length mm	Dim. 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	400	15

Cable tray, marine standard MKR 15

A2 A4 2B

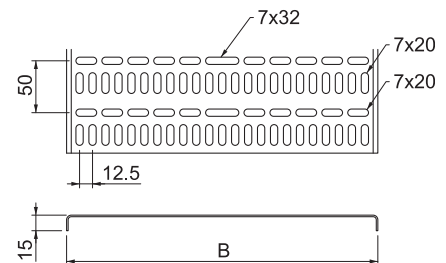


Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
MKR 15 050 A2	50	1.25	2	61.850	6045830
MKR 15 075 A2	75	1.25	2	79.600	6045832
MKR 15 100 A2	100	1.25	2	94.650	6045834
MKR 15 125 A2	125	1.25	2	113.400	6045836
MKR 15 150 A2	150	1.50	2	154.100	6045838
MKR 15 200 A2	200	1.50	2	194.700	6045840
MKR 15 250 A2	250	1.50	2	235.250	6045842
MKR 15 300 A2	300	1.50	2	275.850	6045844
MKR 15 050 A4	50	1.00	2	49.400	6045850
MKR 15 075 A4	75	1.00	2	63.700	6045852
MKR 15 100 A4	100	1.00	2	75.850	6045854
MKR 15 125 A4	125	1.00	2	90.700	6045856
MKR 15 150 A4	150	1.50	2	154.100	6045858
MKR 15 200 A4	200	1.50	2	194.700	6045860
MKR 15 250 A4	250	1.50	2	235.250	6045862
MKR 15 300 A4	300	1.50	2	275.850	6045864

Cable tray for use in ship construction, produced according to the marine standard VG 88900-1.

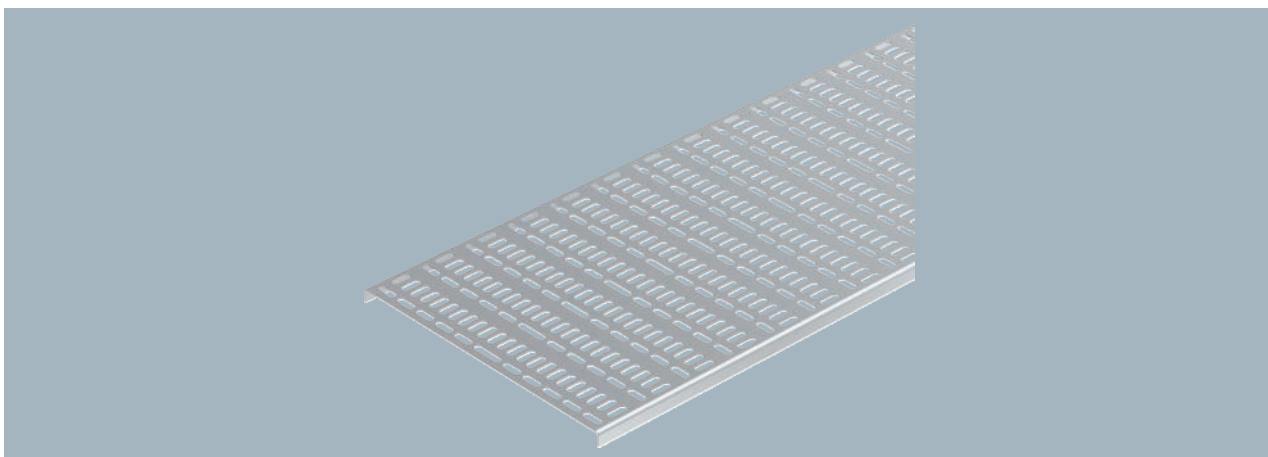
Type	Length mm	Dim. B mm	Side height mm
MKR 15 050 A2	2000	50	15
MKR 15 075 A2	2000	75	15
MKR 15 100 A2	2000	100	15
MKR 15 125 A2	2000	125	15
MKR 15 150 A2	2000	150	15
MKR 15 200 A2	2000	200	15
MKR 15 250 A2	2000	250	15
MKR 15 300 A2	2000	300	15

Dimensions



Alu

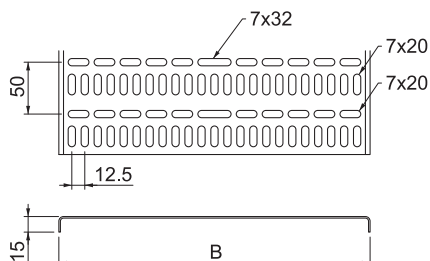
Cable tray, marine standard MKR 15



Cable tray for use in ship construction, produced according to the marine standard VG 88900-1.

Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
MKR 15 050 ALU	50	1.50	2	25.500	6045707
MKR 15 075 ALU	75	1.50	2	32.850	6045715
MKR 15 100 ALU	100	1.50	2	39.050	6045723
MKR 15 125 ALU	125	1.50	2	46.850	6045731
MKR 15 150 ALU	150	1.50	2	53.000	6045758
MKR 15 200 ALU	200	2.00	2	89.300	6045766
MKR 15 250 ALU	250	2.00	2	107.900	6045774
MKR 15 300 ALU	300	2.00	2	126.500	6045782

Dimensions



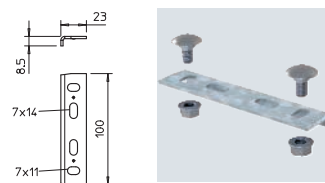
Type	Length mm	Dim. B mm	Side height mm
MKR 15 050 ALU	2000	50	15
MKR 15 075 ALU	2000	75	15
MKR 15 100 ALU	2000	100	15
MKR 15 125 ALU	2000	125	15
MKR 15 150 ALU	2000	150	15
MKR 15 200 ALU	2000	200	15
MKR 15 250 ALU	2000	250	15
MKR 15 300 ALU	2000	300	15

St FS

Type	Pack Piece	Weight kg/100 pc.	Item no.
MKR SV FS	25	5.713	6066242

Straight connector for straight connection of cable trays, according to the marine standard, with a side height of 15 mm.

Screw connector 15

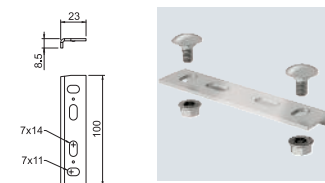


A2 A4 2B

Type	Pack Piece	Weight kg/100 pc.	Item no.
MKR SV A2	25	5.485	6066244
MKR SV A4	25	5.485	6066246

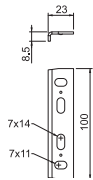
Straight connector for straight connection of cable trays, according to the marine standard, and fittings with a side height of 15 mm.

Screw connector 15



Screw connector 15

Alu



Type

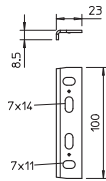
MKR SV ALU

Pack Piece	Weight kg/100 pc.	Item no.
25	2.910	6066248

Straight connector for straight connection of cable trays, according to the marine standard, and fittings with a side height of 15 mm.

Screw connector 15

St FT



Type

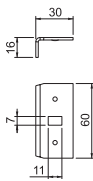
MKR SV FT

Pack Piece	Weight kg/100 pc.	Item no.
25	5.888	6066240

Straight connector for straight connection of cable trays, according to the marine standard, with a side height of 15 mm.

Clamp connector 15

St FT



Type

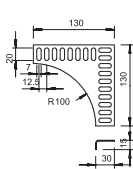
MKR KV FT

Pack Piece	Weight kg/100 pc.	Item no.
25	8.500	6066143

Clamp connector for straight connection of cable trays, according to the marine standard, with a side height of 15 mm.

Corner connector 15

St FT



Type

MKR EV FT

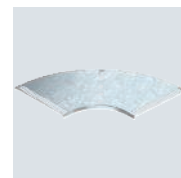
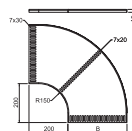
Pack Piece	Weight kg/100 pc.	Item no.
1	9.330	7060041

Corner connector for all cable trays according to the marine standard with side height of 15 mm.

St FS FT

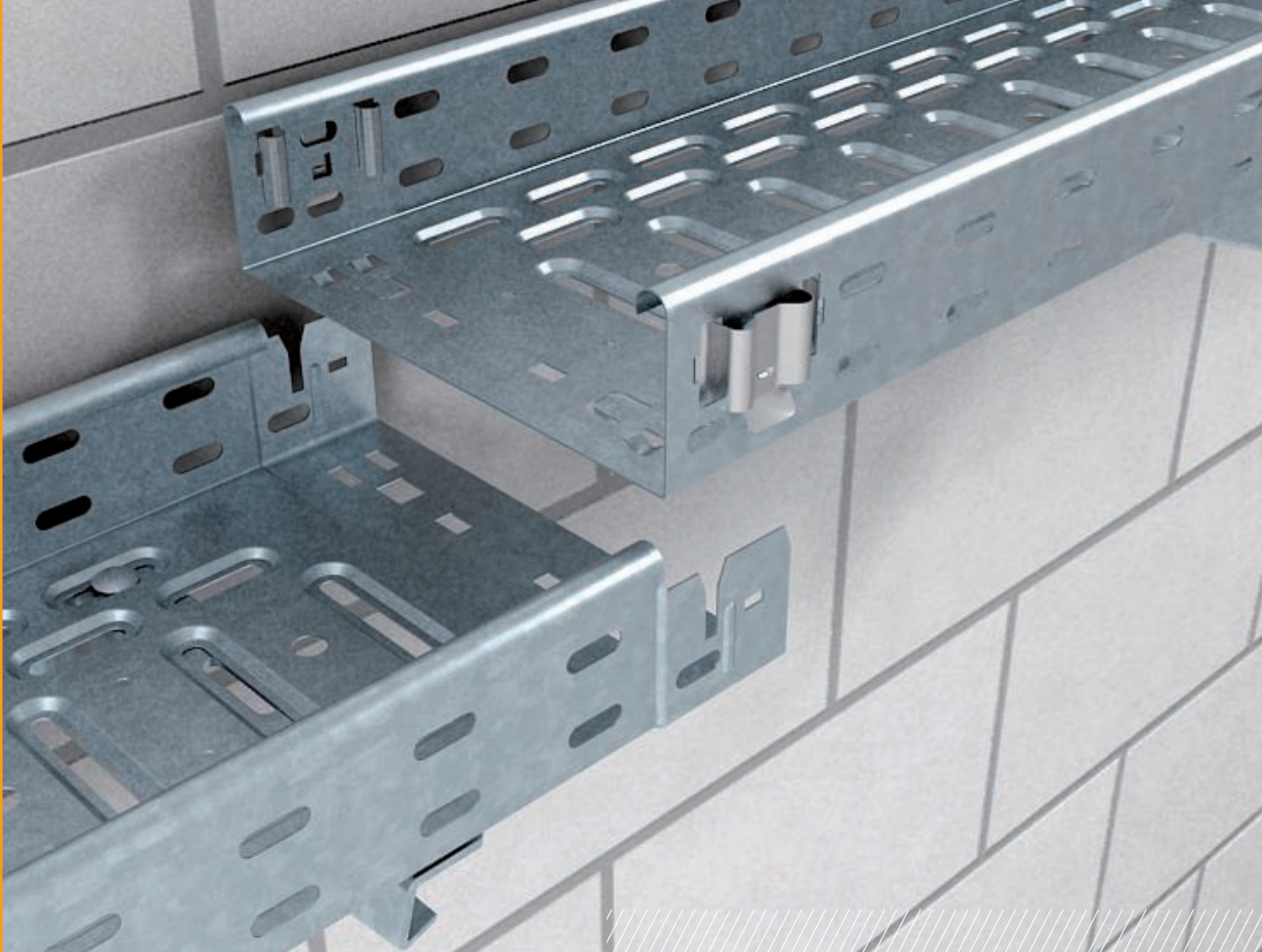
90° bend 15, shipbuilding

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
MKRB 90 15 050FS	15	51	1	14.600	7061146
MKRB 90 15 075FS	15	76	1	22.500	7061050
MKRB 90 15 100FS	15	101	1	28.400	7061244
MKRB 90 15 125FS	15	126	1	56.500	7061252
MKRB 90 15 150FS	15	151	1	73.300	7061360
MKRB 90 15 200FS	15	201	1	102.400	7061449
MKRB 90 15 250FS	15	252	1	163.800	7061546
MKRB 90 15 300FS	15	302	1	206.000	7061643
MKRB 90 15 050FT	15	51	1	16.000	7061145
MKRB 90 15 075FT	15	76	1	23.500	7061048
MKRB 90 15 100FT	15	101	1	31.090	7061242
MKRB 90 15 125FT	15	125	1	61.000	7061250
MKRB 90 15 150FT	15	151	1	79.210	7061358
MKRB 90 15 200FT	15	201	1	110.600	7061447
MKRB 90 15 250FT	15	252	1	176.900	7061544
MKRB 90 15 300FT	15	302	1	222.480	7061641



90° horizontal bend, for all ship construction cable tray types, produced according to the marine standard VG 88900-2.

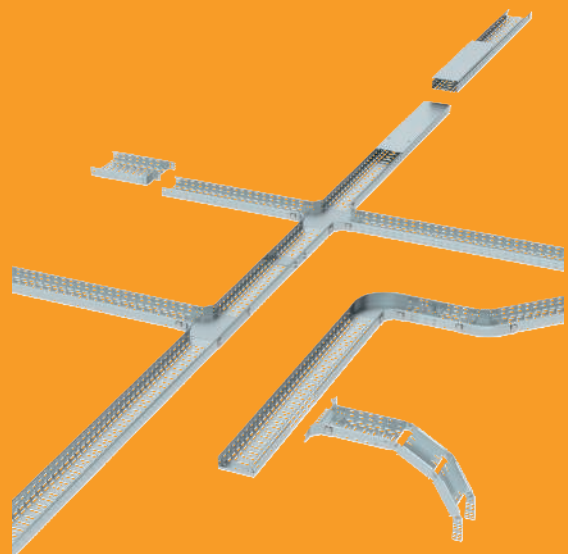




RKS-Magic® cable tray system

The RKS-Magic® cable tray system permits even faster straight connection of the cable trays. The innovative, screwless straight connector can be mounted in the blink of an eye. Just connect the ends of the cable tray, lock them in place - and you're done!

- Fast and secure connection through patented plug connection
- Locking system accessory, such as the barrier strip
- Maintenance of electrical function, tested
- Equipotential bonding without additional components
- VDE and UL approved cable tray system



System description



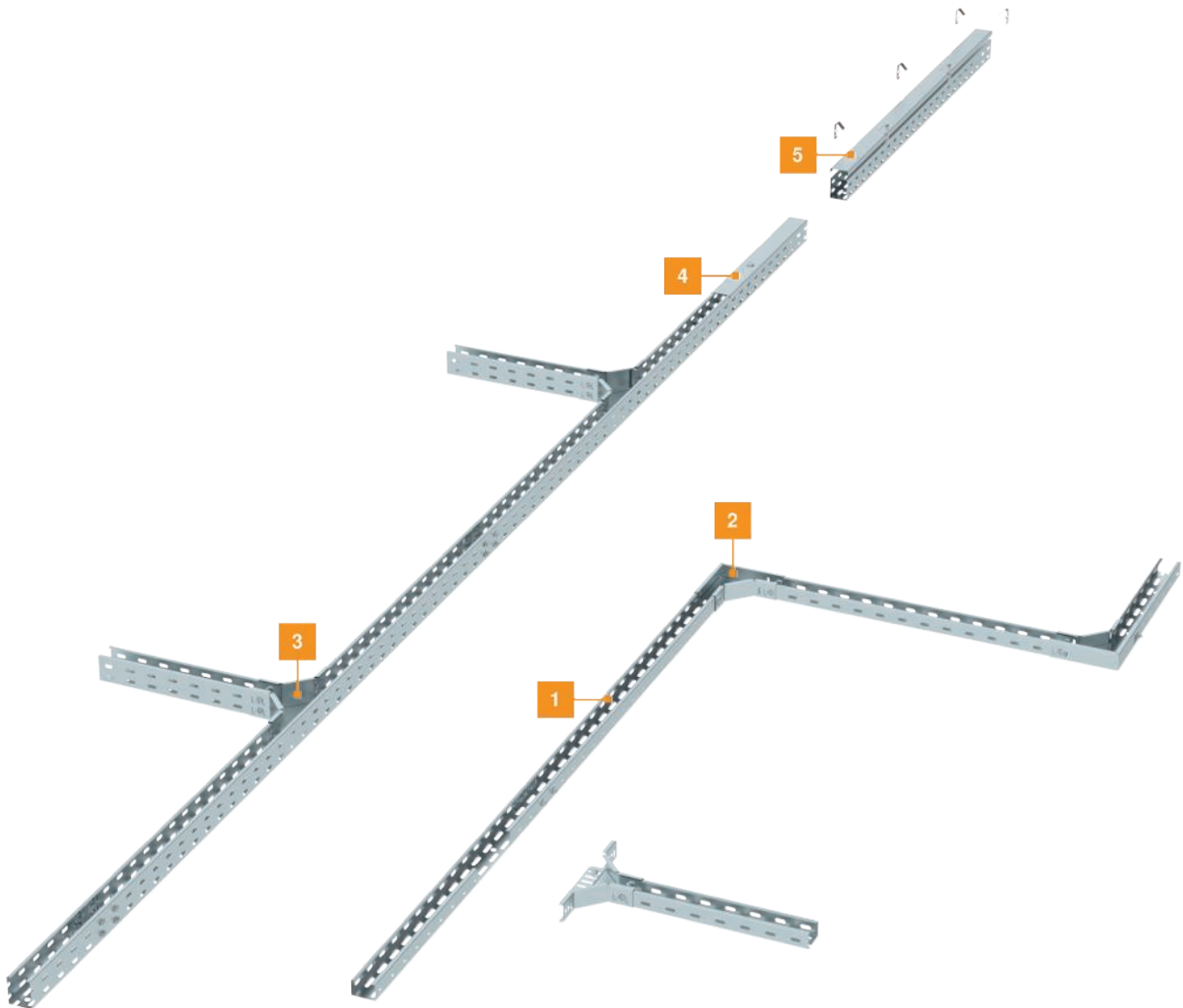
The RKS-Magic® cable tray system permits particularly fast straight connection of the cable trays. The innovative, screwless straight connector can be mounted in the blink of an eye. Just connect the ends of the cable tray, lock them in place – and you're done! The long-lasting, static straight connectors can be permanently stabilised by bending the connection flaps. The RKS-Magic® cable tray is available with the side heights 35 and 60 mm. A comprehensive range of fittings with bends (45° and 90°), T branch pieces, add-on tees and cross-overs completes the system. Also 90° bends and adjustable bends (rising/falling) are available for vertical changes of direction. When mounting fittings, always plan additional

supports.

Besides the various fittings, the system also includes all types of connectors (straight, angle and adjustable connectors) and additional accessories such as barrier strips, joint plates, mounting plates and covers. You can find detailed mounting examples and article descriptions on the following pages. The RKS-Magic® cable tray is tested for routing with the maintenance of electrical function. You can find comprehensive information on this in our new Safety and protective installations product catalogue.

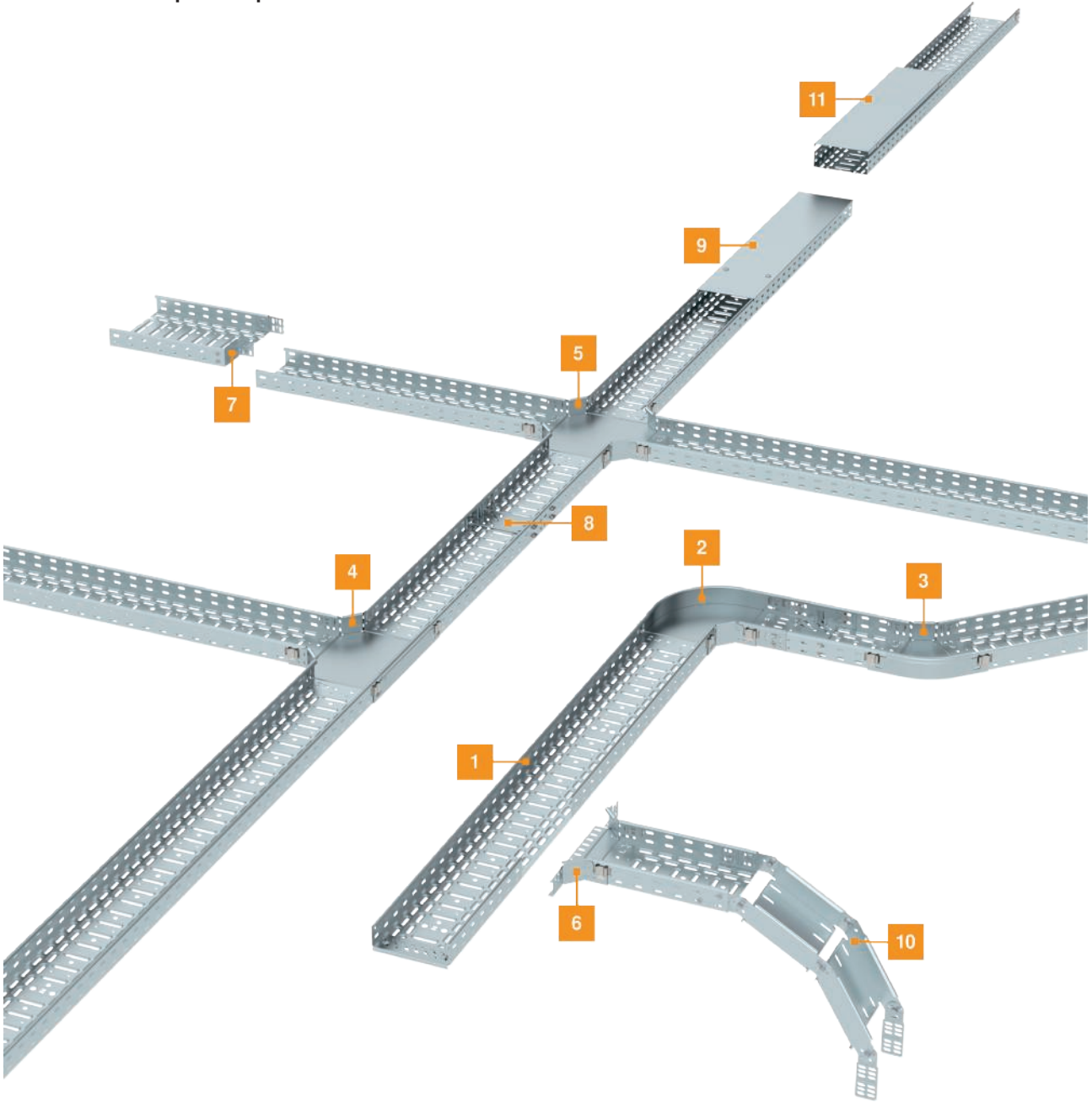
RKS cable tray system

Installation principle



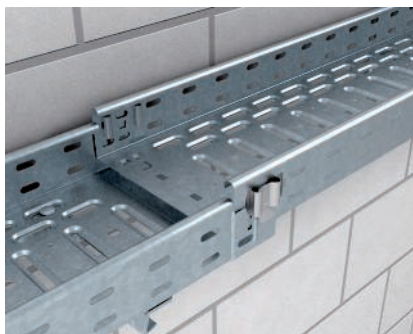
- | | |
|---|-------------------------------------|
| 1 | RKS cable tray |
| 2 | 90° bend |
| 3 | T branch piece |
| 4 | Cover with turn buckle |
| 5 | Unperforated cover with cover clamp |

Installation principle



- | | |
|----|-------------------------------------|
| 1 | RKSM cable tray |
| 2 | 90° Magic bend |
| 3 | 45° Magic bend |
| 4 | Magic T branch piece |
| 5 | Magic horizontal cross-over |
| 6 | Magic add-on tee |
| 7 | Reducer/stop-end |
| 8 | Magic straight connector set |
| 9 | Cover with turn buckle |
| 10 | Adjustable bend element |
| 11 | Unperforated cover with cover clamp |

Mounting aid



Straight connection, cable tray interconnection

The spring element of the cable tray to be connected is snapped into the spring seat of the preceding cable tray from above.



Cable tray fastening

The connected cable trays are fixed in place by bending the connection straps in the base with a screwdriver.



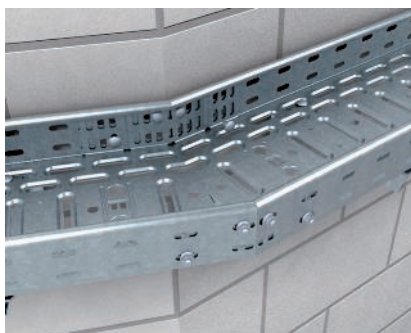
Slackening the connection

The straight connector can be released again at any time. To do this, push a screwdriver under the spring element to release the lock.



Mounting of Magic KTSMV straight connector set

To strengthen the connection, we recommend screwing on the joint plate for widths of more than 400 mm.



Horizontal angle connection of cable trays

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



Vertical adjustable connection of cable trays

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



Width change and end closure

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



Mounting of Magic bend

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



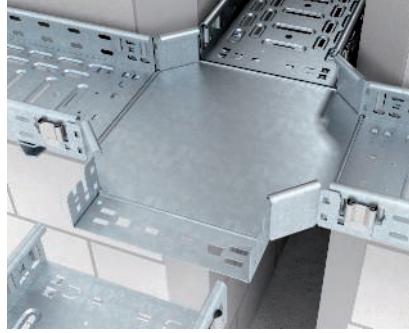
Mounting of Magic mounting/branch piece

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



Mounting of Magic vertical mounting/branch piece (bottom view)

Vertical mounting of the add-on tee as length-wise funnel. Perforation in the cable tray is created on-site. For widths > 400 mm, please order connectors separately.



Mounting of Magic cross-over

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



90° bend (rising/falling)

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



Installation of rising adjustable vertical bend

Adjustable vertical bend to bridge height off-sets or when changing from horizontal to vertical. The adjustable vertical bend is fastened to the cable tray directly using the adjustable connectors.



Installation of falling adjustable vertical bend

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



Installation of bottom end plate

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



Mounting plate with quick fastening

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



Installation of cover with turn buckle

The cover is fastened to the cable tray using turn-buckles; this is done by clamping the turn buckle under the rolled up side rail of the cable tray with a 90° turn.



Screwless cover fastening with cover clamp

Screwless cover mounting takes place with unperforated covers and the cover clamps, type DK DRLU. The cover clamp is simply fixed in the rail of the cable tray.

**Installation of cover for fitting**

The fitting cover is fastened to the cable tray using turn buckles; this is done by clamping the turn buckle under the rolled up side rail of the cable tray with a 90° turn.

**Screwed barrier strip mounting**

Screwed barrier strip fastening of the barrier strip, TSG 60, with truss-head bolts M6x12. The barrier strip can simply be run over the joint and connected without bolts using the barrier strip connector TSGV.

St FS



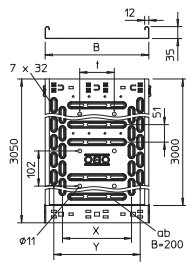
Cable tray RKS-Magic® 35



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

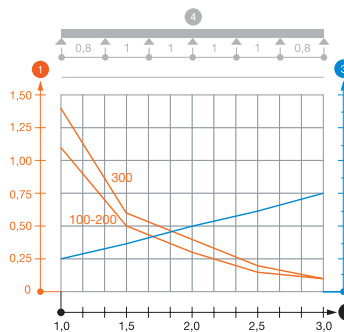
Type	Width mm	Metal thickness mm	Length mm	Weight kg/100 m	Item no.
RKSM 310 FS	100	0.75	3050	104.328	6047417
RKSM 320 FS	200	0.75	3050	155.738	6047433
RKSM 330 FS	300	0.75	3050	209.840	6047460

Dimensions



Type	Length mm	Dim. B mm	Usable Dim. cross-section cm ²	Dim. x mm	Dim. y mm
RKSM 310 FS	3050	100	33	—	50
RKSM 320 FS	3050	200	68	100	150
RKSM 330 FS	3050	300	103	200	250

Load



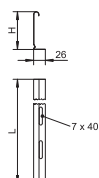
	1.0 m	1.5 m	2.0 m	2.5 m
	kN/m	kN/m	kN/m	kN/m
RKSM 310 FS	1.1	0.5	0.3	0.15
RKSM 320 FS	1.1	0.5	0.3	0.15
RKSM 330 FS	1.4	0.6	0.4	0.2

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

Separating retainer 30

St FS DD



Type	Metal		Pack	Weight	Item no.
	Dim. H	thick-ness			
TSG 30 FS	30	0.75	3	38.000	6062050
TSG 30 DD	30	0.75	3	38.000	6062314

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

Separating retainer connector

VA 2B

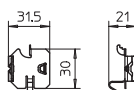


Type	Pack	Weight	Item no.
	Piece	kg/100 pc.	
TSGV A2	10	0.899	6067970

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

Hold-down clamp for separating retainer fastening in RKSM

VA 2B

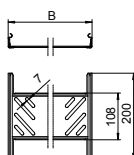


Type	Pack	Weight	Item no.
	Piece	kg/100 pc.	
KS KR A2	30	0.537	6062280

Hold-down clamp for screwless fastening of separating retainers in the cable tray types RKSM, MKS and SKS.

Magic straight connector set 35

St FS



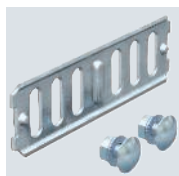
Type	Side height	Dim. B	Pack	Weight	Item no.
	mm	mm	Piece	kg/100 pc.	
KTSMV 310 FS	35	100	1	22.700	6068900
KTSMV 320 FS	35	200	1	29.400	6068902
KTSMV 330 FS	35	300	1	36.100	6068904

Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 35 mm.

The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

Straight connector 35

St FS FT



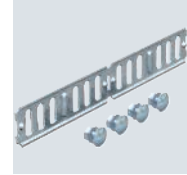
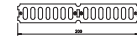
Type	Side height	Pack	Weight	Item no.
	mm	Piece	kg/100 pc.	
RLVK 35 FS	35	10	5.100	6067085
RLVK 35 FT	35	10	5.100	6067301

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

St FS FT

Straight and angle connector 35

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RWVL 35 FS	35	10	10.500	6067107
RWVL 35 FT	35	10	10.500	6067328

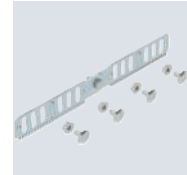
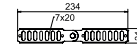


Straight and angle connector for cable trays and fittings with a side height of 35 mm. Including appropriate fastening material.

St FS

Adjustable connector 35

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 35 FS	35	10	11.000	7082002

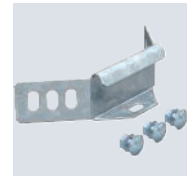
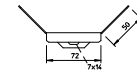
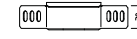


Adjustable connector for cable trays with a side height of 35 mm. Including appropriate fastening material.

St FS

Angle connector 35

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WKV 35 FS	35	5	6.800	6043038

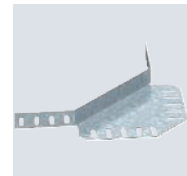
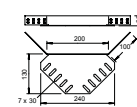


Angle connector for cable trays with a side height of 35 mm. Including appropriate fastening material.

St FS DD

Corner connector 35

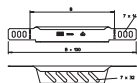
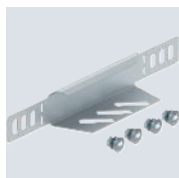
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 35 FS	35	10	39.000	6067956
REV 35 DD	35	1	24.800	6069304



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

Reducer/stop-end 35

St FS

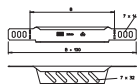
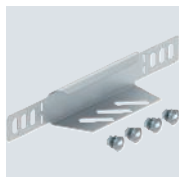


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 310 FS	35	100	1	7.917	7108109
RWEB 320 FS	35	200	1	12.300	7108206
RWEB 330 FS	35	300	1	18.300	7108311
RWEB 305 FS	35	50	1	4.200	7108052

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

Reducer / stop-end 35

St DD

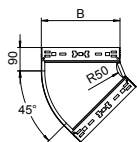
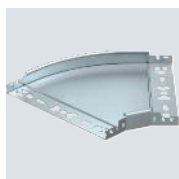


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 310 DD	35	100	1	8.300	7107013
RWEB 320 DD	35	200	1	12.300	7107048

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

45° Magic bend 35

St FS

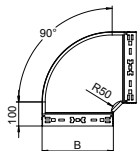
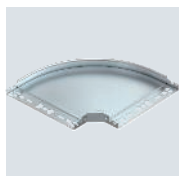


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 45 310 FS	35	100	1	40.800	6041000
RBM 45 320 FS	35	200	1	74.500	6041002
RBM 45 330 FS	35	300	1	114.600	6041004

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

90° Magic bend 35

St FS

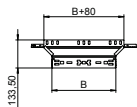


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 90 310 FS	35	100	1	53.700	6041010
RBM 90 320 FS	35	200	1	106.200	6041012
RBM 90 330 FS	35	300	1	173.000	6041014

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

Magic 35 add-on tee

St FS



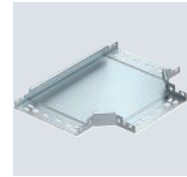
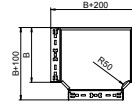
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAAM 310 FS	35	100	1	30.700	6041020
RAAM 320 FS	35	200	1	43.400	6041022
RAAM 330 FS	35	300	1	56.300	6041024

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

St FS

Magic 35 tee

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RTM 310 FS	35	100	1	69.400	6041030
RTM 320 FS	35	200	1	134.000	6041032
RTM 330 FS	35	300	1	216.600	6041034

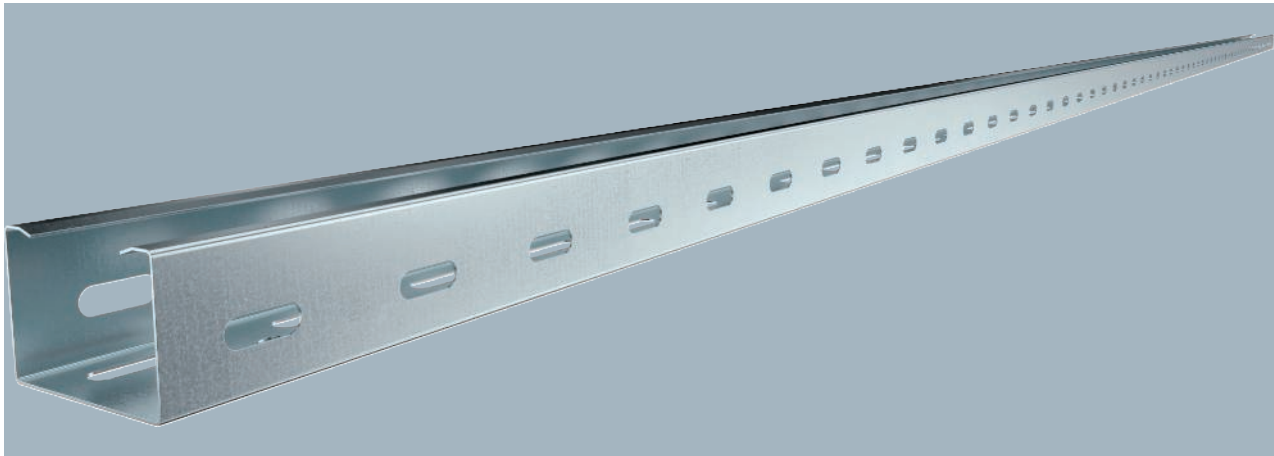


T branch piece with quick connector system. For all cable tray types of 35 mm side height.

Cable trays, side height 35

St FS

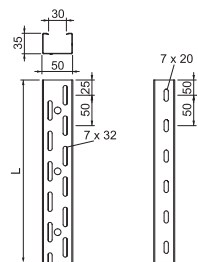
Cable tray RKS 35



RKS 35 = Rational cable tray system with 35 mm side height. Cable tray with continuous bottom and side perforation as well as central holes (Ø11 mm) in the base for additional fastenings.

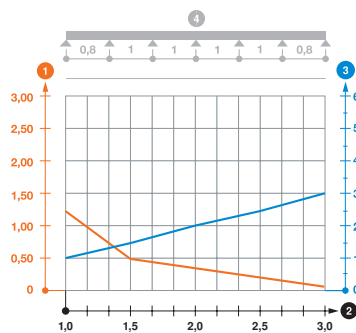
Type	Side height mm	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
RKS 305 FS	35	50	0.75	3	69.667	6047410

Dimensions



Type	Dim. L mm	Usable cross-section cm ²
RKS 305 FS	3000	16

Load



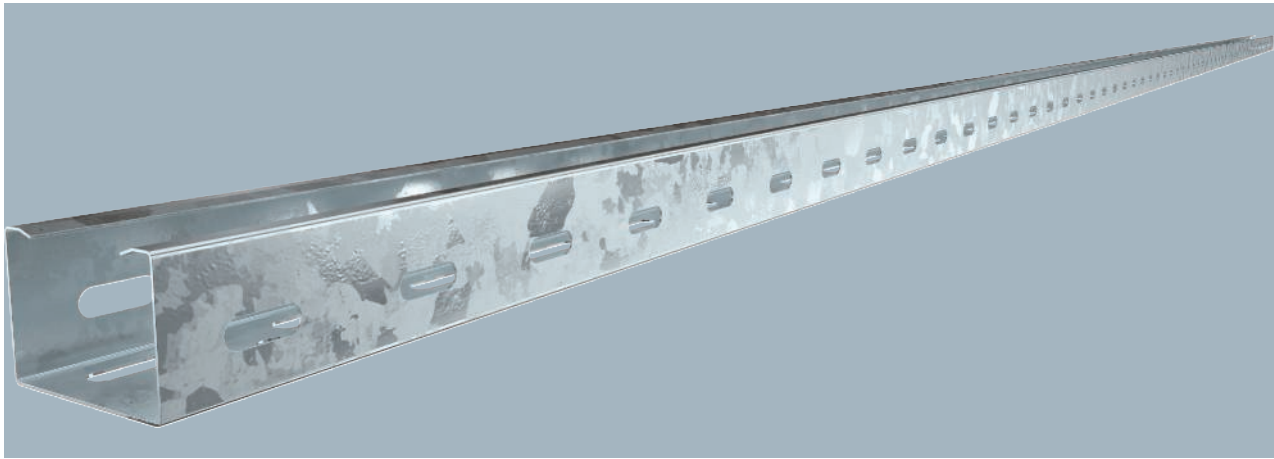
	1.0 m	1.5 m	2.0 m	2.5 m
RKS 305 FS	1.2	0.5	0.3	0.1

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 RKS 35

St FT

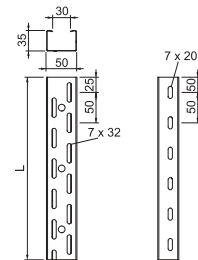


Type	Side height mm	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
RKS 305 FT	35	50	0.75	3	79.334	6047412

RKS 35 = Rational cable tray system with 35 mm side height. Cable tray with continuous bottom and side perforation as well as central holes (Ø11 mm) in the base for additional fastenings.

Type	Dim. L mm	Usable cross-section cm ²
RKS 305 FT	3000	16

Dimensions

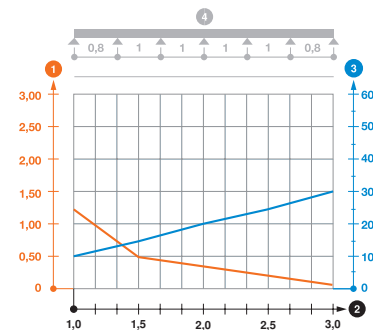


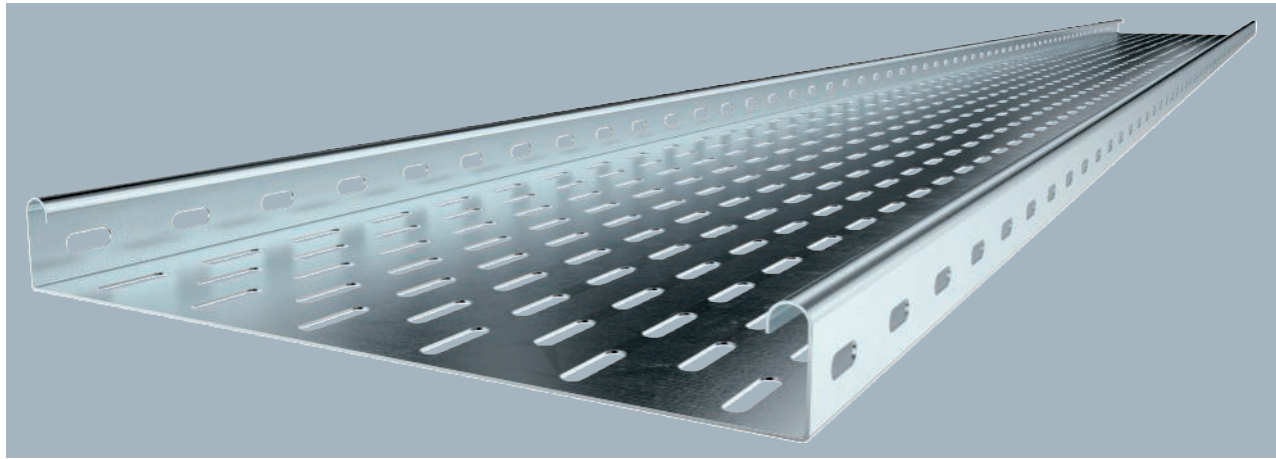
	1.0 m	1.5 m	2.0 m	2.5 m
RKS 305 FT	1.2	0.5	0.3	0.1

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

Load

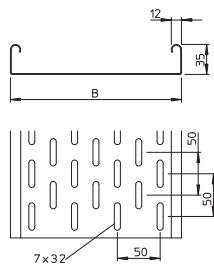




MKS 35 = Medium duty cable tray system with a side height of 35 mm.
 FS version includes RV 35 straight connector set.

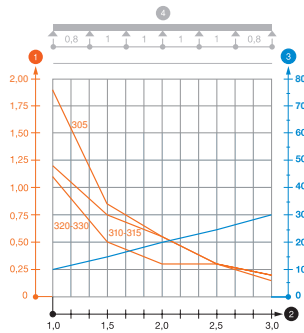
Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
MKS 310 FS	100	1.00	3	144.134	6053548
MKS 315 FS	150	1.00	3	177.067	6053572
MKS 320 FS	200	1.00	3	210.034	6053599
MKS 330 FS	300	1.00	3	276.000	6053637

Dimensions



Type	Length mm	Dim. B mm	Usable cross- section cm ²
MKS 310 FS	3000	100	33
MKS 315 FS	3000	150	50.5
MKS 320 FS	3000	200	68
MKS 330 FS	3000	300	103

Load

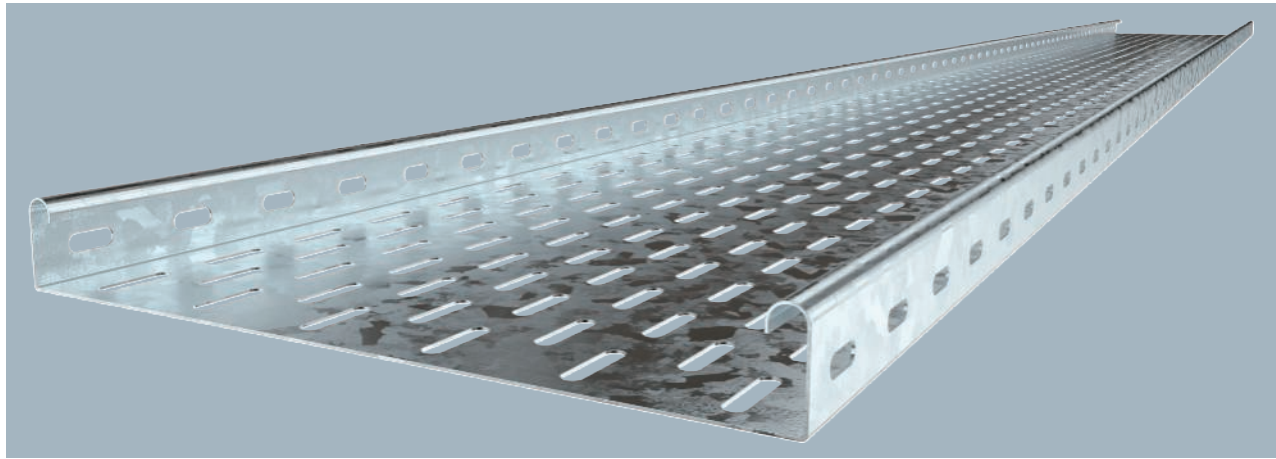


	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKS 310 FS	1.2	0.75	0.55	0.3
MKS 315 FS	1.2	0.75	0.55	0.3
MKS 320 FS	1.1	0.5	0.3	0.3
MKS 330 FS	1.1	0.5	0.3	0.3

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

Cable tray MKS 35

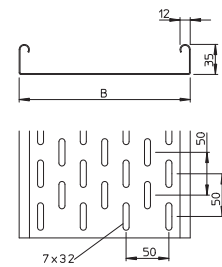


Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
MKS 310 FT	100	1.00	3	153.000	6053106
MKS 315 FT	150	1.00	3	188.734	6053165
MKS 320 FT	200	1.00	3	225.834	6053203
MKS 330 FT	300	1.00	3	295.000	6053300

MKS 35 = Medium duty cable tray system with a side height of 35 mm.

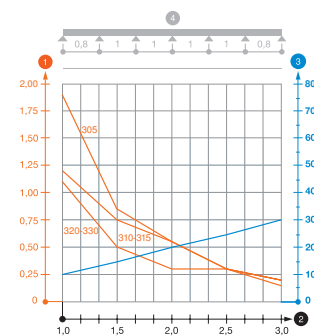
Type	Length mm	Dim. B mm	Usable cross- section cm ²
MKS 310 FT	3000	100	33
MKS 315 FT	3000	150	50.5
MKS 320 FT	3000	200	68
MKS 330 FT	3000	300	103

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKS 310 FT	1.2	0.75	0.55	0.3
MKS 315 FT	1.2	0.75	0.55	0.3
MKS 320 FT	1.1	0.5	0.3	0.3
MKS 330 FT	1.1	0.5	0.3	0.3

Load



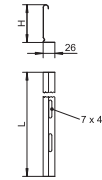
Load diagram, cable tray, type MKS 35

- 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

St FS DD

Separating retainer 30

Type	Metal			Pack	Weight	Item no.
	Dim. H	thick-ness	Dim. L			
TSG 30 FS	30	0.75	3000	3	38.000	6062050
TSG 30 DD	30	0.75	3000	3	38.000	6062314

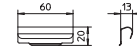


Separating retainer for separation of cables of different voltages or functions.

VA 2B

Separating retainer connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970



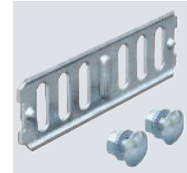
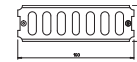
Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

St FS FT



Straight connector 35

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVK 35 FS	35	10	5.100	6067085
RLVK 35 FT	35	10	5.100	6067301

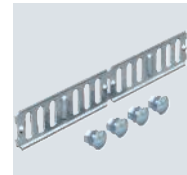


Straight connector for connections of cable trays and fittings with a side height of 35 mm. Including appropriate fastening material.

St FS FT

Straight and angle connector 35

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RWVL 35 FS	35	10	10.500	6067107
RWVL 35 FT	35	10	10.500	6067328

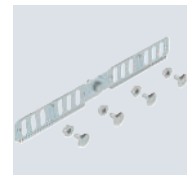
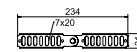


Straight and angle connector for cable trays and fittings with a side height of 35 mm. Including appropriate fastening material.

St FS FT

Adjustable connector 35

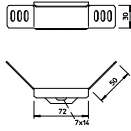
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 35 FS	35	10	11.000	7082002
RGV 35 FT	35	10	11.000	7082126



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

Angle connector 35

St FS

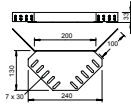


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WKV 35 FS	35	5	6.800	6043038

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

Corner connector 35

St FS DD

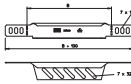
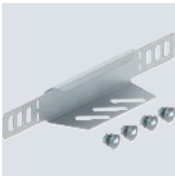


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 35 FS	35	10	39.000	6067956
REV 35 DD	35	1	24.800	6069304

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

Reducer/stop-end 35

St FS

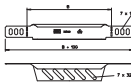
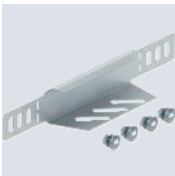


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 310 FS	35	100	1	7.917	7108109
RWEB 320 FS	35	200	1	12.300	7108206
RWEB 330 FS	35	300	1	18.300	7108311
RWEB 305 FS	35	50	1	4.200	7108052

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

Reducer / stop-end 35

St DD

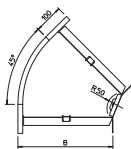
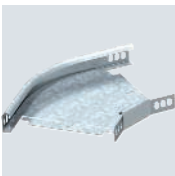


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 310 DD	35	100	1	8.300	7107013
RWEB 320 DD	35	200	1	12.300	7107048

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

45° bend 35

St FS FT



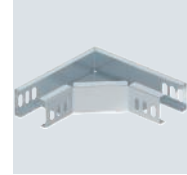
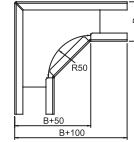
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 45 310 FS	35	100	1	40.000	6043704
RB 45 320 FS	35	200	1	60.000	6043712
RB 45 330 FS	35	300	1	90.000	6043720
RB 45 310 FT	35	100	1	43.000	7065116
RB 45 315 FT	35	150	1	55.000	7065167
RB 45 320 FT	35	200	1	65.000	7065213
RB 45 330 FT	35	300	1	97.000	7065310

45° bend, horizontal, for all cable tray types of 35 mm side height.
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.

St FS FT

90° bend

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 305 FS	35	50	1	31.100	7124400
RB 90 305 FT	35	50	1	32.900	7124410

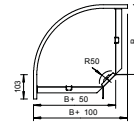


90° bend for horizontal routing of cable trays, type RKS 305.

St FS FT

90° bend 35

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 310 FS	35	100	1	31.100	6043119
RB 90 315 FS	35	150	1	65.000	6043123
RB 90 320 FS	35	200	1	64.300	6043127
RB 90 330 FS	35	300	1	112.300	6043135
RB 90 310 FT	35	100	1	48.000	7124120
RB 90 320 FT	35	200	1	98.000	7124236
RB 90 330 FT	35	300	1	150.000	7124325

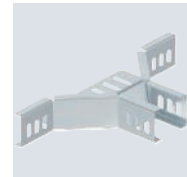
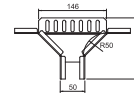


90° bend, horizontal, for all cable tray types of 35 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

St FS FT

Mounting/branch piece 35

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 305 FS	35	50	1	24.440	7120450
RAA 305 FT	35	50	1	24.440	7120458

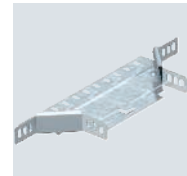
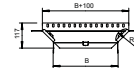


Add-on tee for the horizontal routing of cable trays, type RKS 305.

St FS FT

Add-on tee 35

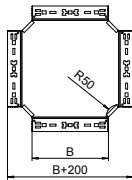
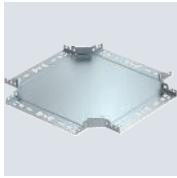
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 310 FS	35	100	1	30.000	6040322
RAA 320 FS	35	200	1	35.000	6040349
RAA 330 FS	35	300	1	50.000	6040357
RAA 310 FT	35	100	1	33.000	7120117
RAA 315 FT	35	150	1	39.700	7120140
RAA 320 FT	35	200	1	38.000	7120214
RAA 330 FT	35	300	1	55.000	7120311



Add-on tee for horizontal and vertical use. For all cable tray types of 35 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

Magic 35 cross-over

St FS

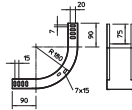


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RKM 310 FS	35	100	1	78.500	7027241
RKM 320 FS	35	200	1	146.300	7027243
RKM 330 FS	35	300	1	231.200	7027245

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

90° vertical bend, rising, 35

St FS FT



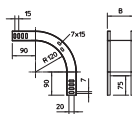
Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 310 S FS	35	100	1	55.600	7007174
RBV 315 S FS	35	150	1	66.400	7007178
RBV 320 S FS	35	200	1	77.300	7007182
RBV 330 S FS	35	300	1	99.000	7007186
RBV 310 S FT	35	100	1	61.100	7007176
RBV 315 S FT	35	150	1	73.000	7007180
RBV 320 S FT	35	200	1	85.000	7007184
RBV 330 S FT	35	300	1	100.900	7007188

90° rising vertical bend, for all cable tray types of 35 mm side height.

The vertical bend is pushed over the end of the cable tray and screwed tight. Fastening materials should be ordered separately.

90° vertical bend, falling 35

St FS FT

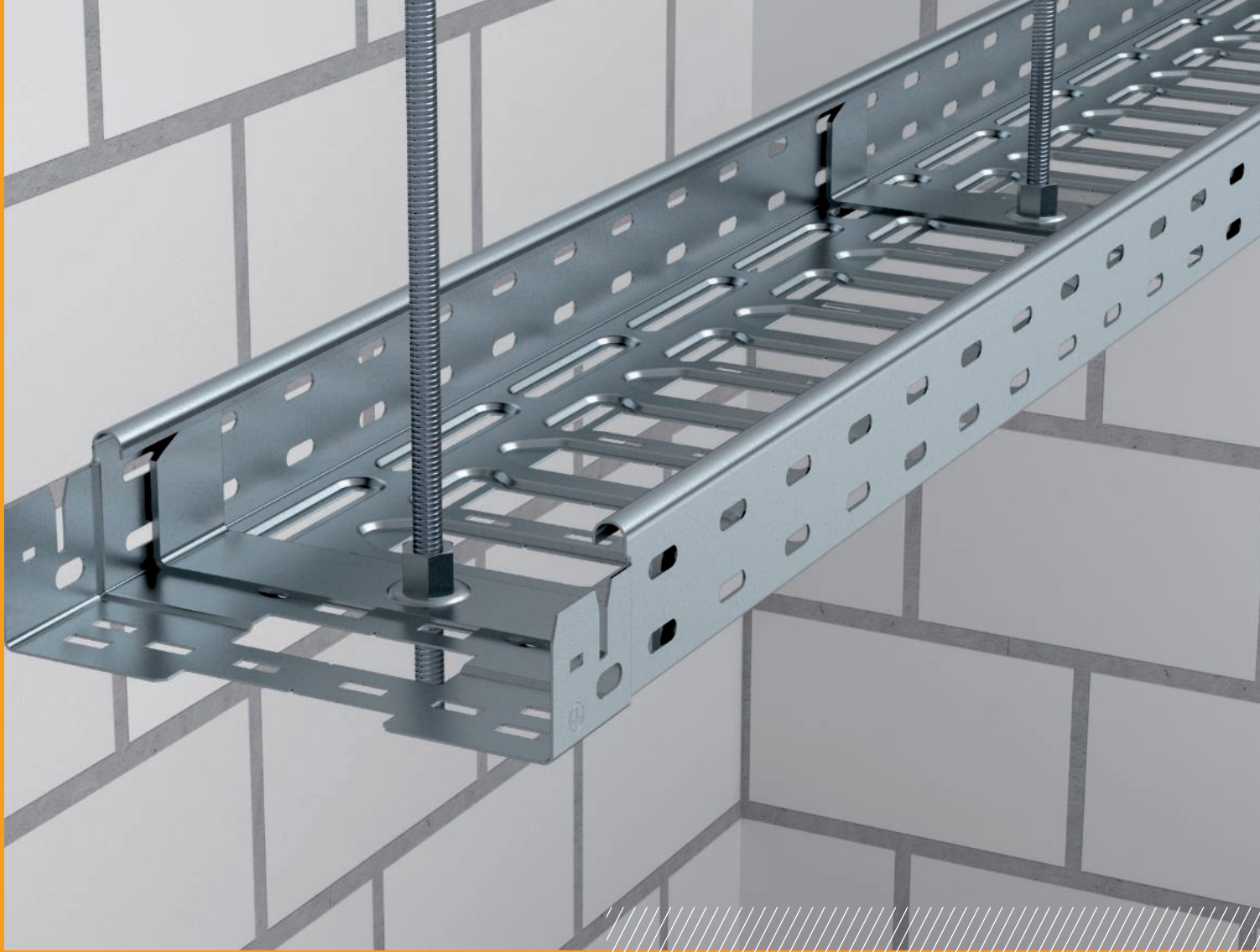


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 310 F FS	35	100	1	51.300	7007204
RBV 315 F FS	35	150	1	60.000	7007208
RBV 320 F FS	35	200	1	68.700	7007212
RBV 330 F FS	35	300	1	86.100	7007216
RBV 310 F FT	35	100	1	56.000	7007206
RBV 315 F FT	35	150	1	66.000	7007210
RBV 320 F FT	35	200	1	76.000	7007214
RBV 330 F FT	35	300	1	95.000	7007218

90° vertical bend, falling, for all cable tray types of 35 mm side height.

The vertical bend is pushed over the end of the cable tray and screwed tight. Fastening materials should be ordered separately.





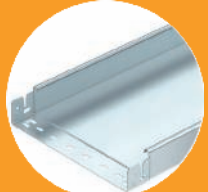
MKS-Magic® cable tray system

The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task.

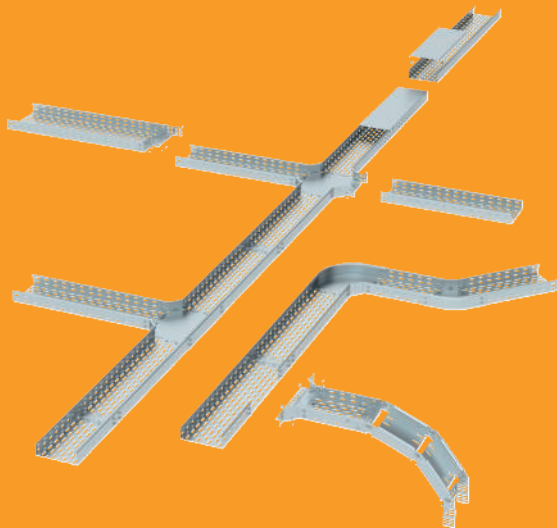
- Snap-in fittings with screwless Magic connection
- Side height 60, 85 and 110 mm



MKS-Magic® cable tray

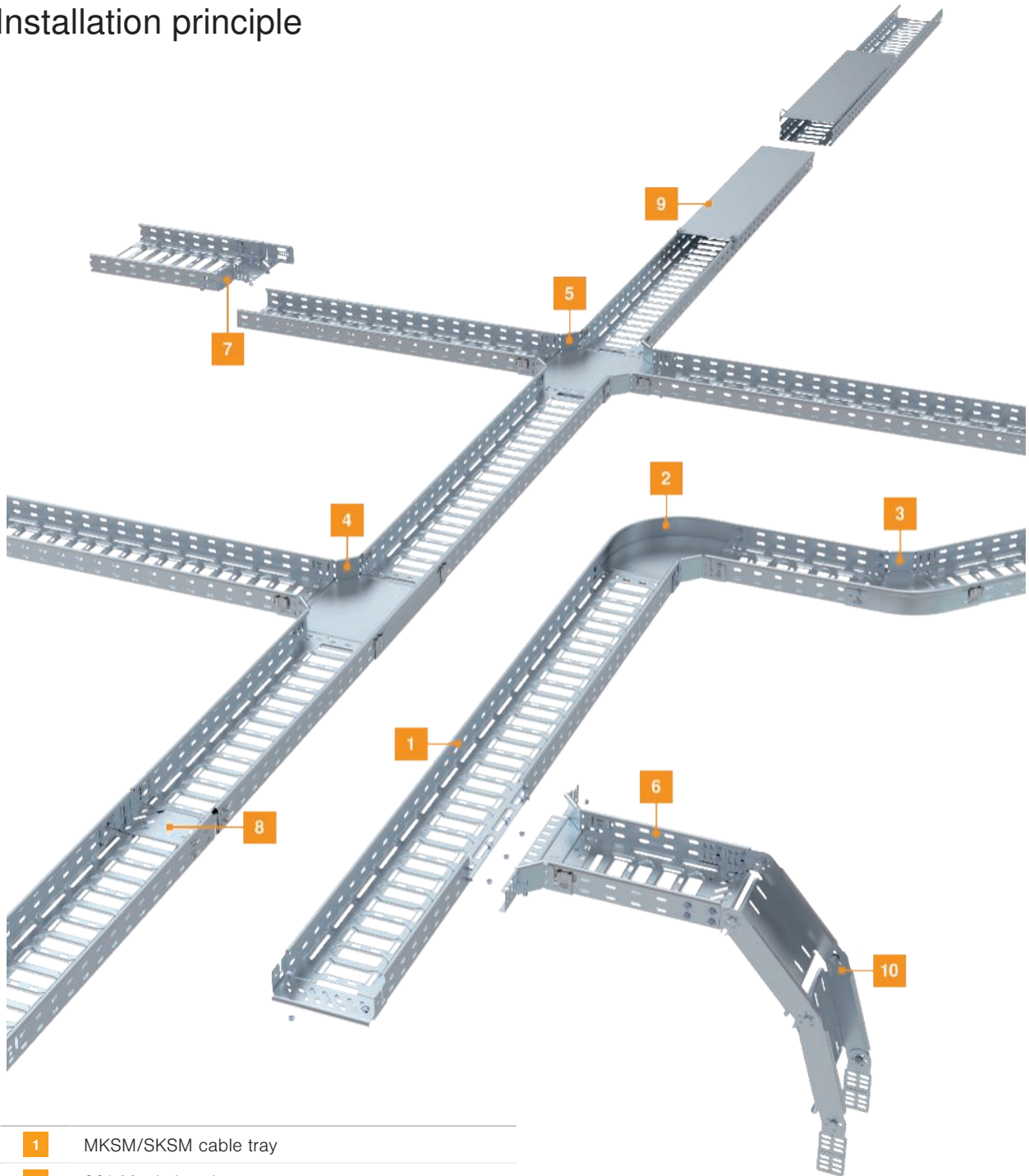


MKS-Magic® cable tray unperforated



MKS-Magic® cable tray system

Installation principle



- | | |
|----|------------------------------|
| 1 | MKSM/SKSM cable tray |
| 2 | 90° Magic bend |
| 3 | 45° Magic bend |
| 4 | Magic T branch piece |
| 5 | Magic horizontal cross-over |
| 6 | Magic add-on tee |
| 7 | Reducer/stop-end |
| 8 | Magic straight connector set |
| 9 | Cover with turn buckle |
| 10 | Adjustable bend element |



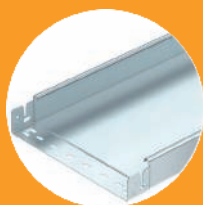
SKS-Magic® cable tray system

The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task.

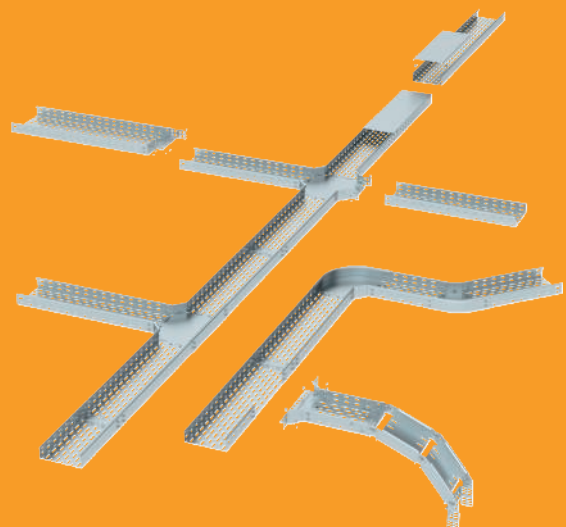
- Snap-in fittings with screwless Magic connection
- Side height 60, 85 and 110 mm



Cable tray SKS-Magic®

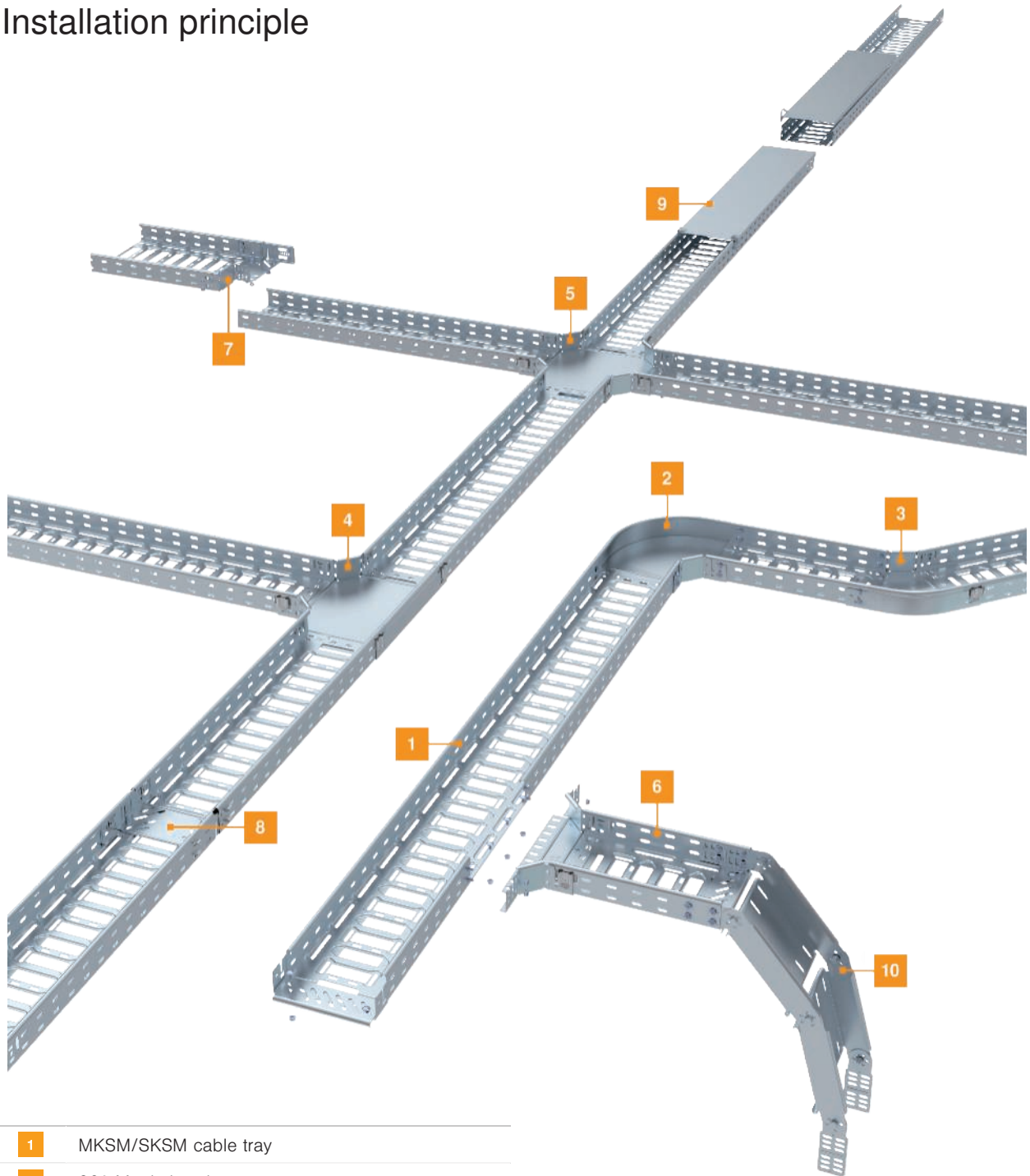


Cable tray SKS-Magic®
unperforated



SKS-Magic® cable tray system

Installation principle



- | | |
|----|------------------------------|
| 1 | MKSM/SKSM cable tray |
| 2 | 90° Magic bend |
| 3 | 45° Magic bend |
| 4 | Magic T branch piece |
| 5 | Magic horizontal cross-over |
| 6 | Magic add-on tee |
| 7 | Reducer/stop-end |
| 8 | Magic straight connector set |
| 9 | Cover with turn buckle |
| 10 | Adjustable bend element |

Mounting aid



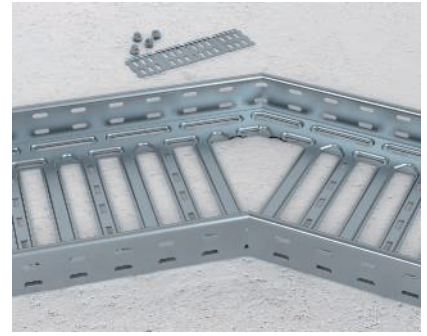
Mounting of Magic KTSMV straight connector set

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

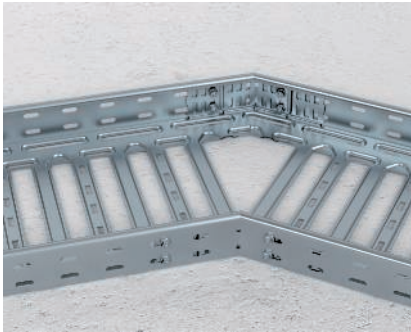


Mounting of Magic KTSMV straight connector set

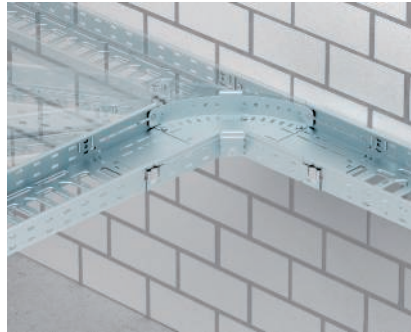
Insert the corresponding joint plate, push it down and simply lock it in place. To strengthen the connection, we recommend screwing on the joint plate for widths of more than 400 mm.



Change of direction by cutting the cable tray set
Cut and bend the cable tray, then fix the cut rail with an angle connector, type RWVL.

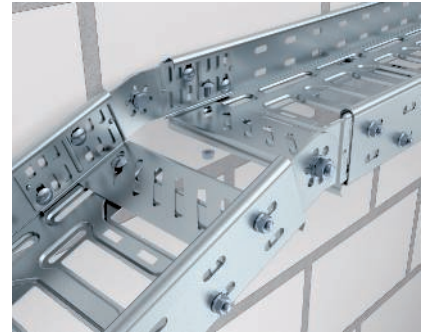


Change of direction with separate cable trays
Combine the cut trays and fix them from the inside at the joint using angle connectors, type RWVL.



Creating a change of direction with the variable Magic bend

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

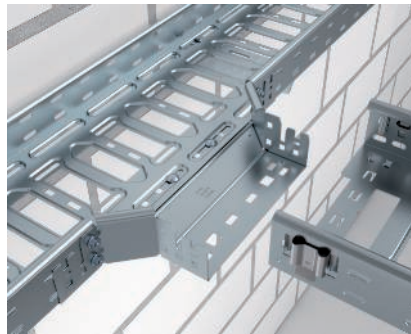


Vertical adjustable connection of cable trays
Vertical adjustable connection of cable tray for construction-side height jumps of any angle.



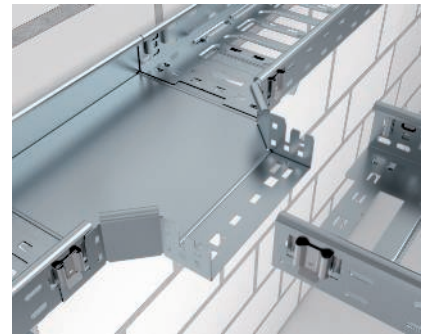
Mounting of Magic bend

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



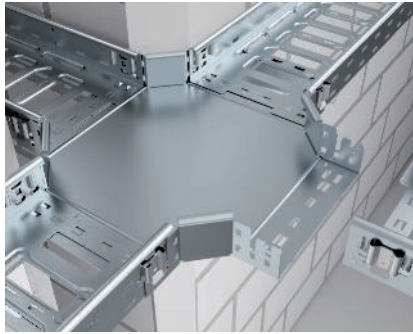
Mounting of Magic mounting/branch piece

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



Mounting of Magic T branch piece

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



Mounting of Magic intersection

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



90° bend (rising/falling)

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



Installation of adjustable vertical bend element

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



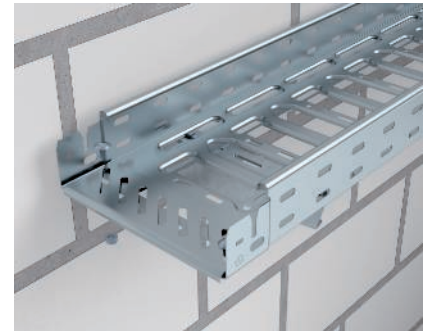
Installation of rising adjustable vertical bend

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



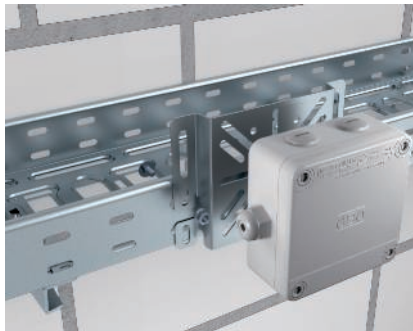
Screwless cover mounting

Unperforated covers are mounted using cover clamps, type DK DRLU. The cover clamps are first clamped to the cover edge and then snapped on to the cable tray rail with the cover.



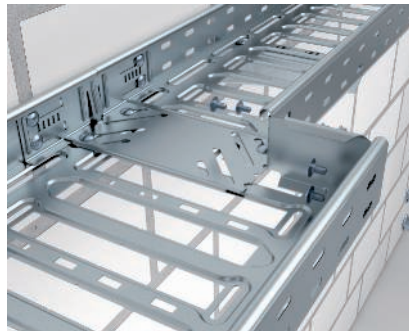
Installation of bottom end plate

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



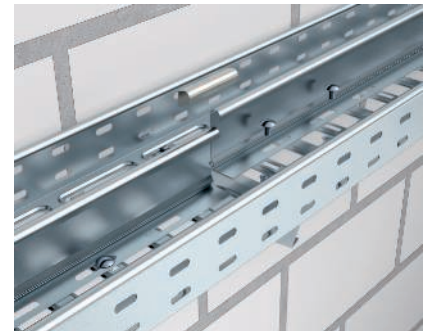
Universal mounting plate

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



Installation of reducer / stop-end

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



Barrier strip mounting with screw connection

Screwed barrier strip fastening of the barrier strip, TSG 60, with truss-head bolts M6x12. The barrier strip can simply be run over the joint and connected without bolts using the barrier strip connector TSGV.

Cable tray RKS-Magic® 60

St FS

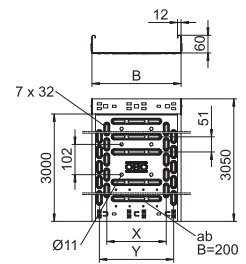


Type	Width mm	Metal thick- ness mm	BS	Pack m	Weight kg/100 m	Item no.
RKSM 610 FS	100	0.75	🔥	3	134.334	6047611
RKSM 615 FS	150	0.75		3	154.885	6047630
RKSM 620 FS	200	0.75	🔥	3	181.508	6047638
RKSM 630 FS	300	0.75	🔥	3	233.803	6047654
RKSM 640 FS	400	0.90	🔥	3	338.459	6047689
RKSM 650 FS	500	0.90		3	401.246	6047719
RKSM 660 FS	600	0.90		3	464.000	6047735

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

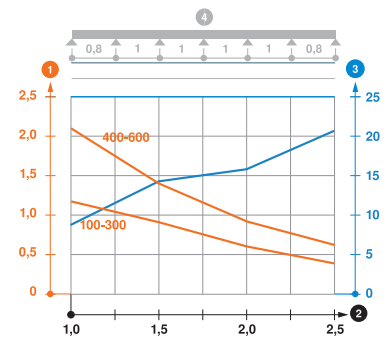
Type	Length mm	Dim. B mm	Usable cross- section cm ²	Dim. x mm	Dim- en- sion y mm
RKSM 610 FS	3050	100	58	—	50
RKSM 615 FS	3050	150	88	50	100
RKSM 620 FS	3050	200	118	100	150
RKSM 630 FS	3050	300	178	200	250
RKSM 640 FS	3050	400	238	300	350
RKSM 650 FS	3050	500	298	400	450
RKSM 660 FS	3050	600	358	450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

Dimensions



	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



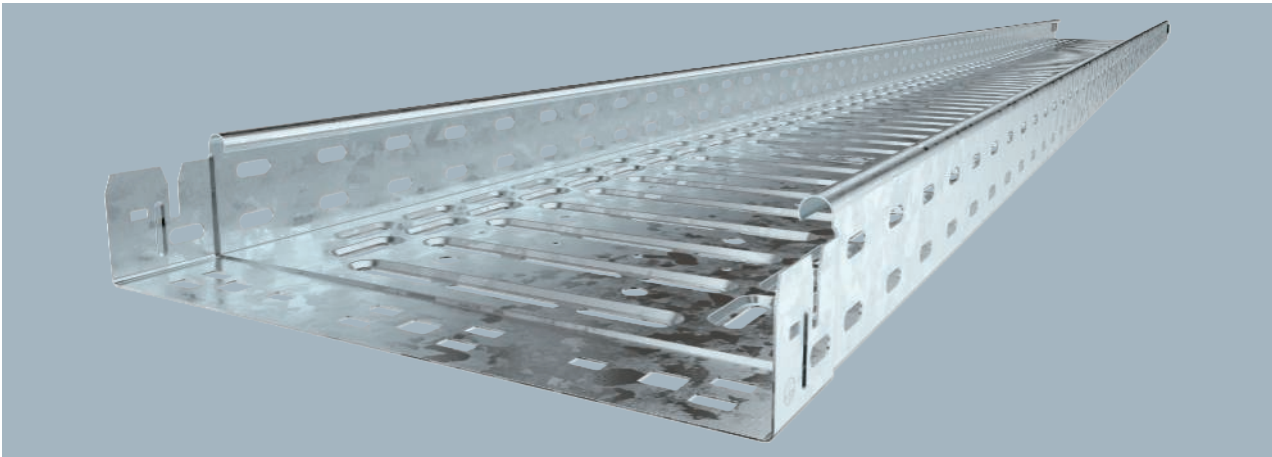
Load diagram, cable tray, type RKSM 60

- 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

St FT



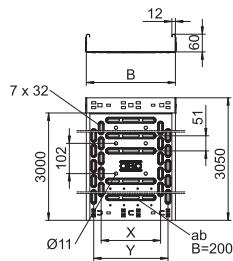
Cable tray RKS-Magic® 60



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

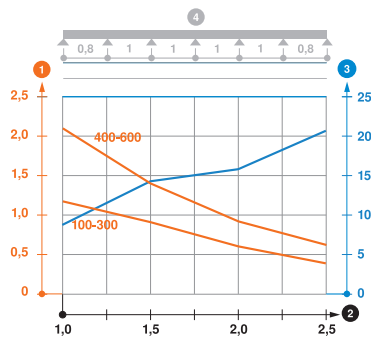
Type	Width mm	Metal thickness		Pack m	Weight kg/100 m	Item no.
		mm	BS			
RKSM 610 FT	100	1.00		3	197.410	6047612
RKSM 615 FT	150	1.00		3	236.984	6047631
RKSM 620 FT	200	1.00		3	251.115	6047639
RKSM 630 FT	300	1.00		3	356.295	6047655
RKSM 640 FT	400	1.00		3	437.180	6047690
RKSM 650 FT	500	1.00		3	518.295	6047720
RKSM 660 FT	600	1.00		3	599.443	6047736

Dimensions



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

Load



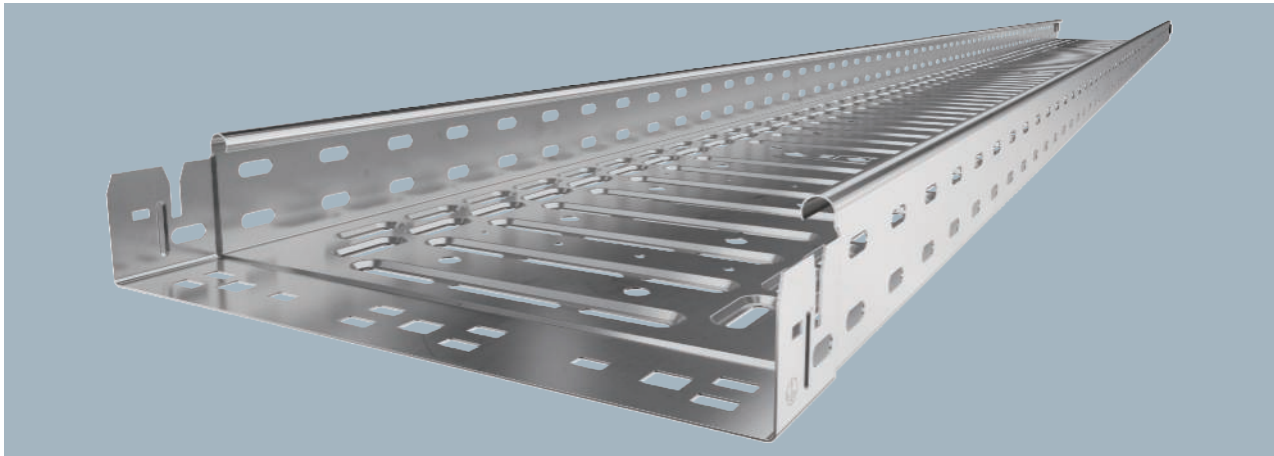
Type	1.0 m	1.5 m	2.0 m	2.5 m	NEMA
	kN/m	kN/m	kN/m	kN/m	load class
RKSM 610 FT	1.2	0.9	0.6	0.4	8AA
RKSM 615 FT	1.2	0.9	0.6	0.4	8AA
RKSM 620 FT	1.2	0.9	0.6	0.4	8AA
RKSM 630 FT	1.2	0.9	0.6	0.4	8AA
RKSM 640 FT	2.1	1.35	0.9	0.6	8AA
RKSM 650 FT	2.1	1.35	0.9	0.6	8AA
RKSM 660 FT	2.1	1.35	0.9	0.6	8AA

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® 60

A2 2B

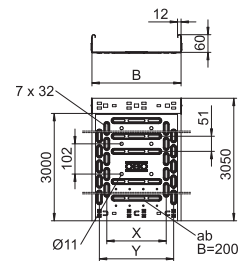


Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
RKSM 610 A2	100	0.75	3	144.590	6047613
RKSM 620 A2	200	0.75	3	200.984	6047640
RKSM 630 A2	300	0.75	3	259.344	6047656
RKSM 640 A2	400	0.90	3	358.361	6047691
RKSM 650 A2	500	0.90	3	424.590	6047721
RKSM 660 A2	600	0.90	3	491.148	6047737

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

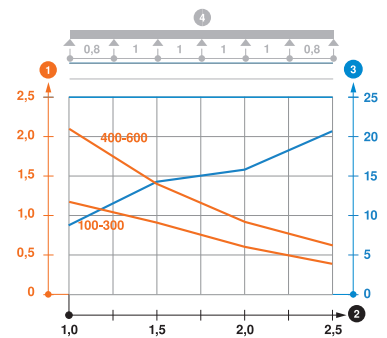
Type	Length mm	Dim. B mm	Usable Dim. cross-section cm ²	Dim. x mm	Dim. y mm
RKSM 610 A2	3050	100	58	—	50
RKSM 620 A2	3050	200	118	100	150
RKSM 630 A2	3050	300	178	200	250
RKSM 640 A2	3050	400	238	300	350
RKSM 650 A2	3050	500	298	400	450
RKSM 660 A2	3050	600	358	450	550

Dimensions



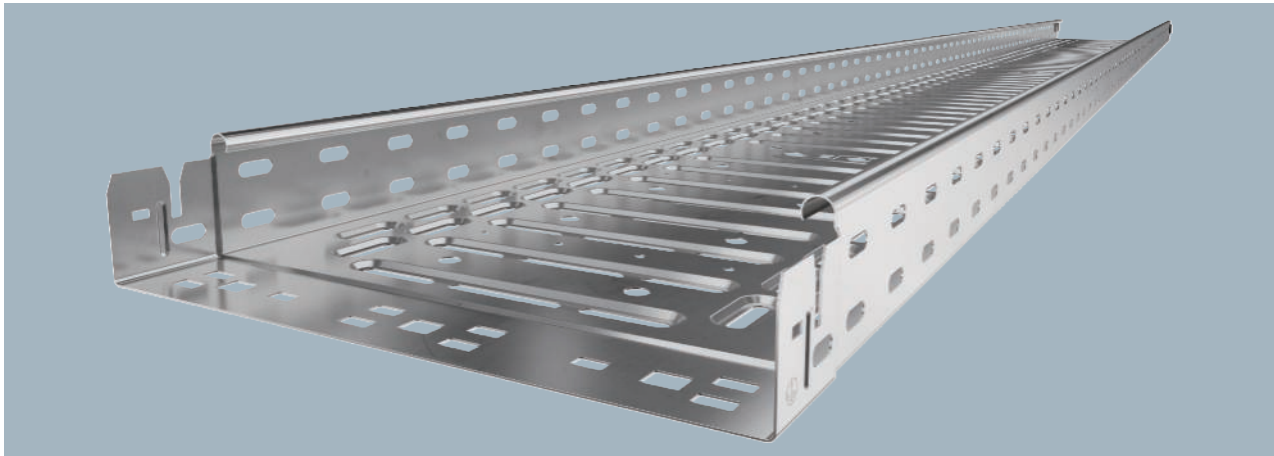
	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
RKSM 610 A2	1.2	0.9	0.6	0.4
RKSM 620 A2	1.2	0.9	0.6	0.4
RKSM 630 A2	1.2	0.9	0.6	0.4
RKSM 640 A2	2.1	1.35	0.9	0.6
RKSM 650 A2	2.1	1.35	0.9	0.6
RKSM 660 A2	2.1	1.35	0.9	0.6

Load



Load diagram, cable tray, type RKSM 60

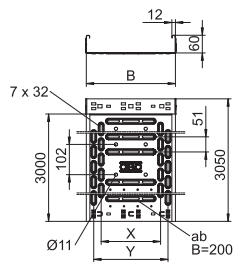
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



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

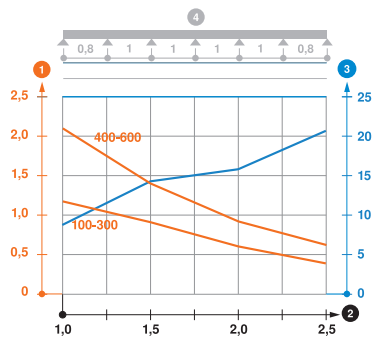
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
RKSM 610 A4	100	0.75	3	144.590	6047614
RKSM 615 A4	150	0.75	3	172.787	6047633
RKSM 620 A4	200	0.75	3	200.984	6047641
RKSM 630 A4	300	0.75	3	259.344	6047657
RKSM 640 A4	400	0.90	3	358.361	6047692
RKSM 650 A4	500	0.90	3	424.590	6047722
RKSM 660 A4	600	0.90	3	491.148	6047738

Dimensions



Type	Length mm	Usable Dim. B mm	cross-section cm ²	Dim. x mm	Dim. y mm
RKSM 610 A4	3050	100	58	—	50
RKSM 615 A4	3050	150	88	50	100
RKSM 620 A4	3050	200	118	100	150
RKSM 630 A4	3050	300	178	200	250
RKSM 640 A4	3050	400	238	300	350
RKSM 650 A4	3050	500	298	400	450
RKSM 660 A4	3050	600	358	450	550

Load

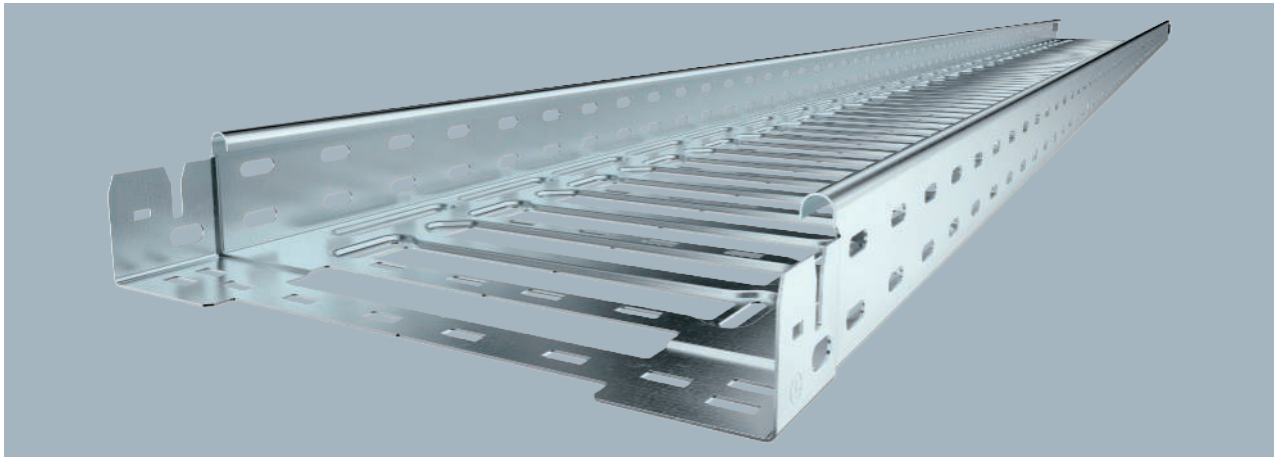


	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
RKSM 610 A4	1.2	0.9	0.6	0.4
RKSM 615 A4	1.2	0.9	0.6	0.4
RKSM 620 A4	1.2	0.9	0.6	0.4
RKSM 630 A4	1.2	0.9	0.6	0.4
RKSM 640 A4	2.1	1.35	0.9	0.6
RKSM 650 A4	2.1	1.35	0.9	0.6
RKSM 660 A4	2.1	1.35	0.9	0.6

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

Cable tray MKS-Magic® 60

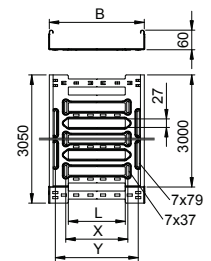


Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKSM 610 FS	100	1.00	3	166.032	6059000
MKSM 615 FS	150	1.00	3	200.983	6059002
MKSM 620 FS	200	1.00	3	219.344	6059004
MKSM 630 FS	300	1.00	3	256.721	6059006
MKSM 640 FS	400	1.00	3	298.262	6059008
MKSM 650 FS	500	1.00	3	331.475	6059010
MKSM 660 FS	600	1.00	3	368.852	6059012

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm. The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components. From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

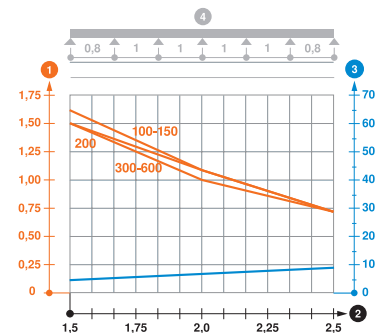
Type	Length mm	Dim. B mm	Usable cross-section cm ²	Dim. L mm	Dim. x mm	Dim. y mm	Dimension mm
MKSM 610 FS	3050	100	58	30	—	62	
MKSM 615 FS	3050	150	88	30	46	112	
MKSM 620 FS	3050	200	118	80	96	162	
MKSM 630 FS	3050	300	178	180	196	262	
MKSM 640 FS	3050	400	238	280	296	362	
MKSM 650 FS	3050	500	298	380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

Dimensions



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

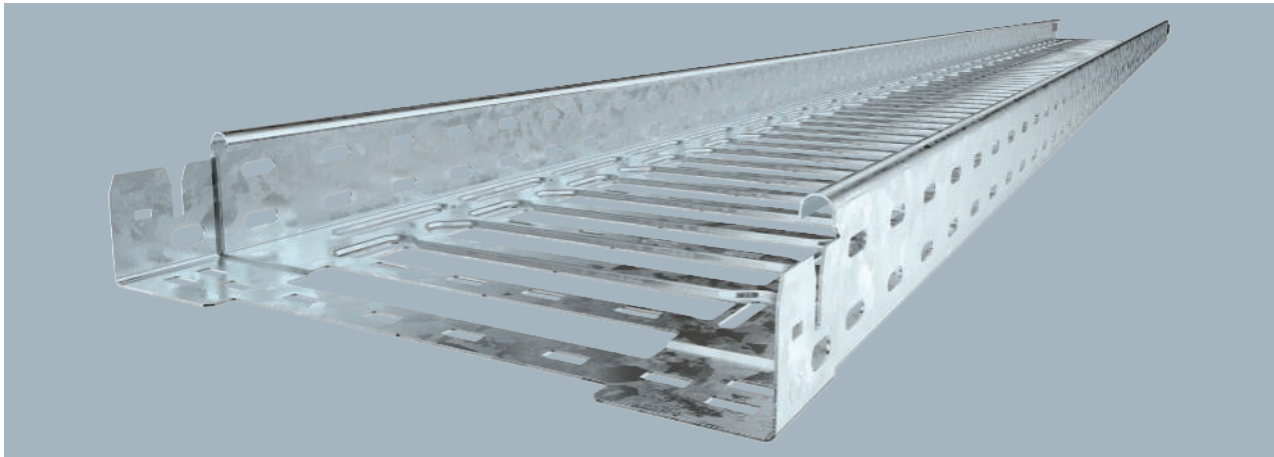


Load diagram, cable tray, type MKSM 60

- 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

St FT

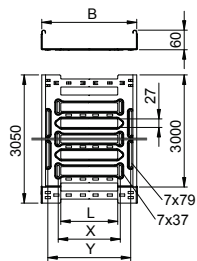
Cable tray MKS-Magic® 60



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm. The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components. From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

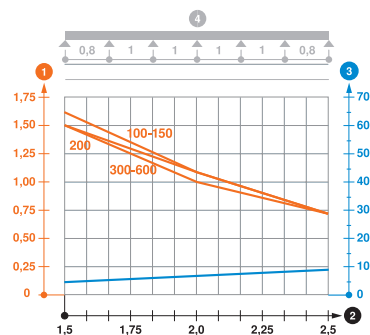
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKSM 610 FT	100	1.00	3	182.557	6059018
MKSM 615 FT	150	1.00	3	219.016	6059020
MKSM 620 FT	200	1.00	3	239.344	6059022
MKSM 630 FT	300	1.00	3	280.000	6059025
MKSM 640 FT	400	1.00	3	327.967	6059027
MKSM 650 FT	500	1.00	3	361.311	6059029
MKSM 660 FT	600	1.00	3	402.295	6059032

Dimensions



Type	Length mm	Dim. B mm	Usable Dim. cross-section cm²	Dim. L mm	Dim. x mm	Dim. y mm	Dimension mm
MKSM 610 FT	3050	100	58	30	-	62	
MKSM 615 FT	3050	150	88	30	46	112	
MKSM 620 FT	3050	200	118	80	96	162	
MKSM 630 FT	3050	300	178	180	196	262	
MKSM 640 FT	3050	400	238	280	296	362	
MKSM 650 FT	3050	500	298	380	396	462	
MKSM 660 FT	3050	600	358	480	496	562	

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSM 610 FT	1.6	1.1	0.7
MKSM 615 FT	1.6	1.1	0.7
MKSM 620 FT	1.5	1.1	0.7
MKSM 630 FT	1.5	1	0.7
MKSM 640 FT	1.5	1	0.7
MKSM 650 FT	1.5	1	0.7
MKSM 660 FT	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® 60

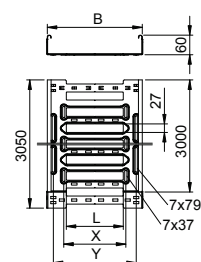


Type	Width mm	Metal thick- ness		BS	Pack m	Weight kg/100 m	Item no.
		mm	BS				
SKSM 610 FS	100	1.50	BS	3	249.573	6059456	
SKSM 615 FS	150	1.50	BS	3	301.639	6059458	
SKSM 620 FS	200	1.50	BS	3	329.180	6059460	
SKSM 630 FS	300	1.50	BS	3	385.245	6059462	
SKSM 640 FS	400	1.50	BS	3	441.311	6059464	
SKSM 650 FS	500	1.50	BS	3	504.852	6059466	
SKSM 660 FS	600	1.50	BS	3	553.442	6059468	

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm. The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components. From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

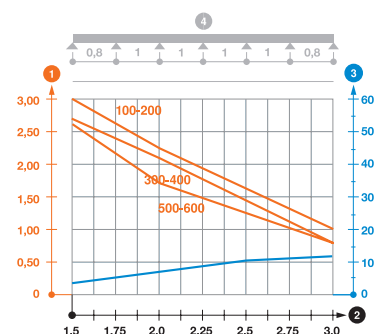
Type	Length mm	Dim. B mm	Usable cross- section cm ²	Dim. L mm	Dim. x mm	Dim. y mm	Dim- en- sion mm
SKSM 615 FS	3050	150	88	30	46	112	
SKSM 620 FS	3050	200	118	80	96	162	
SKSM 630 FS	3050	300	178	180	196	262	
SKSM 640 FS	3050	400	238	280	296	362	
SKSM 650 FS	3050	500	298	380	396	462	
SKSM 660 FS	3050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

Dimensions



Type	1.5 m 2.0 m 3.0 m kN/m kN/m kN/m		
	SKSM 610 FS	3	2.25
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

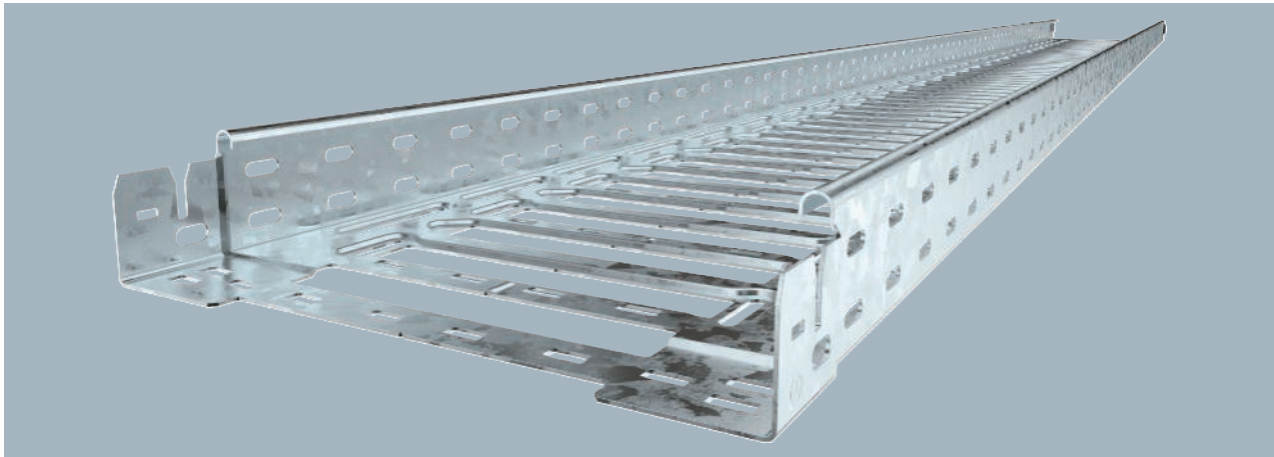


Load diagram, cable tray, type SKSM 60

- 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

St FT

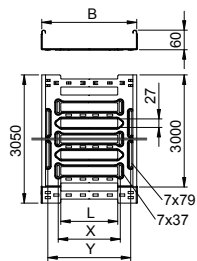
Cable tray SKS-Magic® 60



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm. The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components. From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

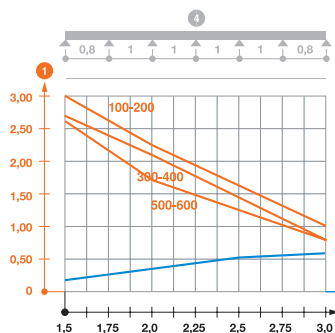
Type	Width mm	Metal thickness		Pack m	Weight kg/100 m	Item no.
		mm	BS			
SKSM 610 FT	100	1.50		3	266.098	6059473
SKSM 615 FT	150	1.50		3	328.852	6059475
SKSM 620 FT	200	1.50		3	359.016	6059477
SKSM 630 FT	300	1.50		3	420.000	6059479
SKSM 640 FT	400	1.50		3	481.311	6059481
SKSM 650 FT	500	1.50		3	538.295	6059483
SKSM 660 FT	600	1.50		3	603.606	6059485

Dimensions



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

Load



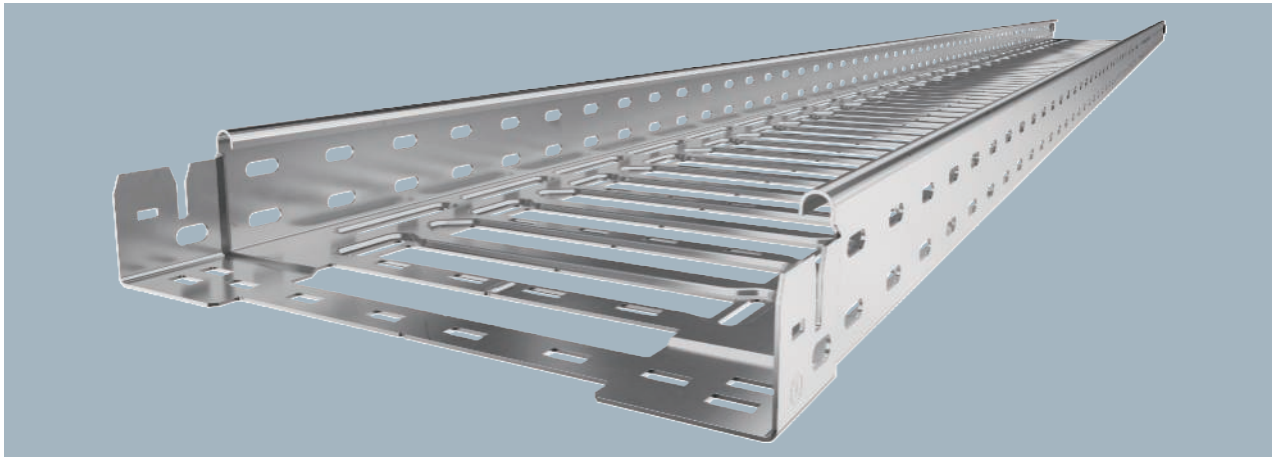
Type	1.5 m 2.0 m 3.0 m kN/m kN/m kN/m		
	SKSM 610 FT	3	2.25
SKSM 615 FT	3	2.25	1
SKSM 620 FT	3	2.25	1
SKSM 630 FT	2.7	2.1	0.8
SKSM 640 FT	2.7	2.1	0.8
SKSM 650 FT	2.6	1.8	0.8
SKSM 660 FT	2.6	1.8	0.8

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

Cable tray SKS-Magic® 60

A2 2B

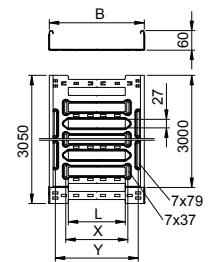


Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
SKSM 610 A2	100	1.50	3	253.733	6059490
SKSM 620 A2	200	1.50	3	337.000	6059494
SKSM 630 A2	300	1.50	3	397.000	6059496
SKSM 640 A2	400	1.50	3	451.333	6059498
SKSM 650 A2	500	1.50	3	513.267	6059500
SKSM 660 A2	600	1.50	3	566.000	6059502

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm. The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components. From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

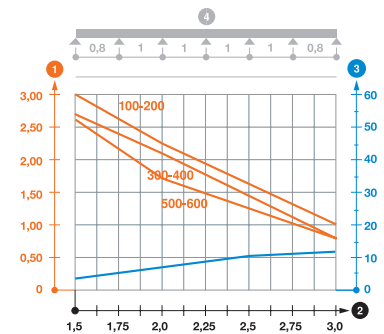
Type	Length mm	Dim. B mm	Usable Dim. cross-section cm ²	Dim. L mm	Dim. x mm	Dim. y mm	Dimension mm
SKSM 610 A2	3050	100	58	30	—	62	
SKSM 620 A2	3050	200	118	80	96	162	
SKSM 630 A2	3050	300	178	180	196	262	
SKSM 640 A2	3050	400	238	280	296	362	
SKSM 650 A2	3050	500	298	380	396	462	
SKSM 660 A2	3050	600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

Dimensions



	1.5 m	2.0 m	3.0 m
	kN/m	kN/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

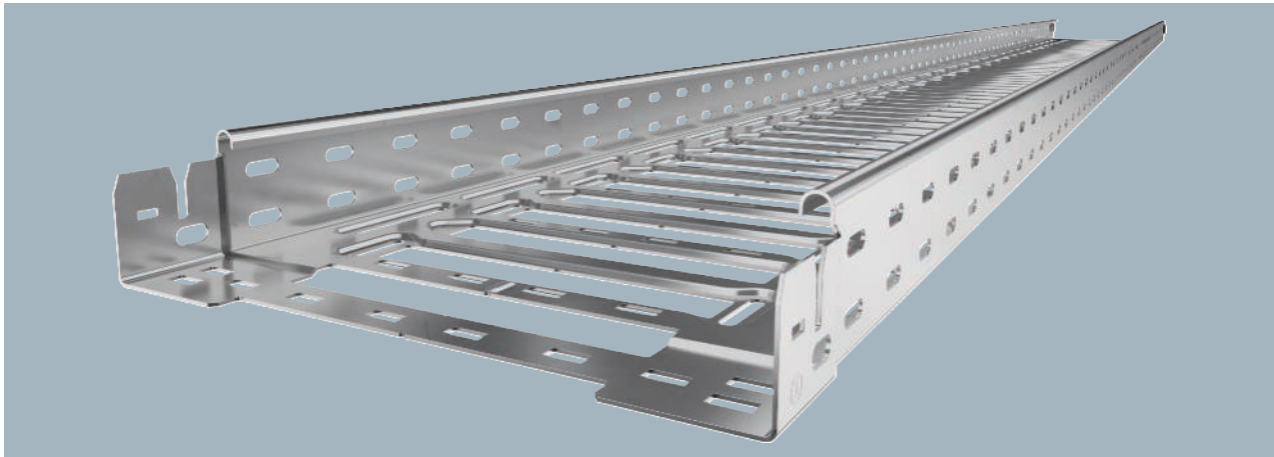


Load diagram, cable tray, type SKSM 60

- 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

A4 2B

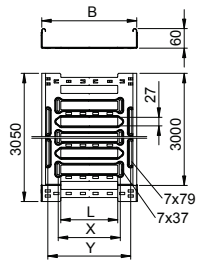
Cable tray SKS-Magic® 60



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm. The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components. From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

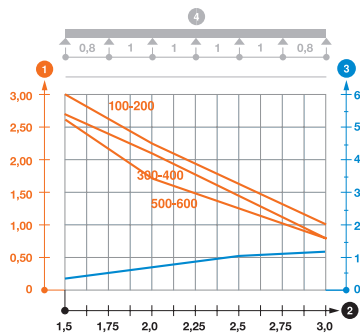
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
SKSM 610 A4	100	1.50	3	253.733	6059507
SKSM 620 A4	200	1.50	3	337.000	6059511
SKSM 630 A4	300	1.50	3	397.000	6059513
SKSM 640 A4	400	1.50	3	451.333	6059515
SKSM 650 A4	500	1.50	3	513.267	6059517
SKSM 660 A4	600	1.50	3	566.000	6059519

Dimensions



Type	Length mm	Usable Dim. B mm	cross-section cm ²	Dim. L mm	Dim. x mm	Dim. y mm	Dimension mm
SKSM 610 A4	3050	100	58	30	-	62	
SKSM 620 A4	3050	200	118	80	96	162	
SKSM 630 A4	3050	300	178	180	196	262	
SKSM 640 A4	3050	400	238	280	296	362	
SKSM 650 A4	3050	500	298	380	396	462	
SKSM 660 A4	3050	600	358	480	396	562	

Load



	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
SKSM 610 A4	3	2.25	1
SKSM 620 A4	3	2.25	1
SKSM 630 A4	2.7	2.1	0.8
SKSM 640 A4	2.7	2.1	0.8
SKSM 650 A4	1.9	1.55	0.8
SKSM 660 A4	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® 60, unperforated

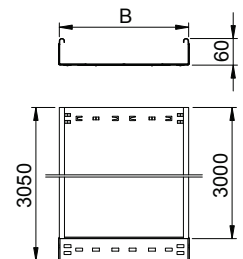


Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKSMU 610 FS	100	1.00	3	191.672	6059230
MKSMU 615 FS	150	1.00	3	230.852	6059232
MKSMU 620 FS	200	1.00	3	269.836	6059234
MKSMU 630 FS	300	1.00	3	348.459	6059237
MKSMU 640 FS	400	1.00	3	426.918	6059239
MKSMU 650 FS	500	1.00	3	505.311	6059241
MKSMU 660 FS	600	1.00	3	583.737	6059243

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

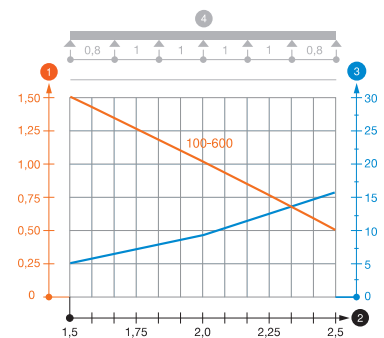
Type	Length mm	Dim. B mm	Usable cross-section cm ²
MKSMU 610 FS	3050	100	58
MKSMU 615 FS	3050	150	88
MKSMU 620 FS	3050	200	118
MKSMU 630 FS	3050	300	178
MKSMU 640 FS	3050	400	238
MKSMU 650 FS	3050	500	298
MKSMU 660 FS	3050	600	358

Dimensions



	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



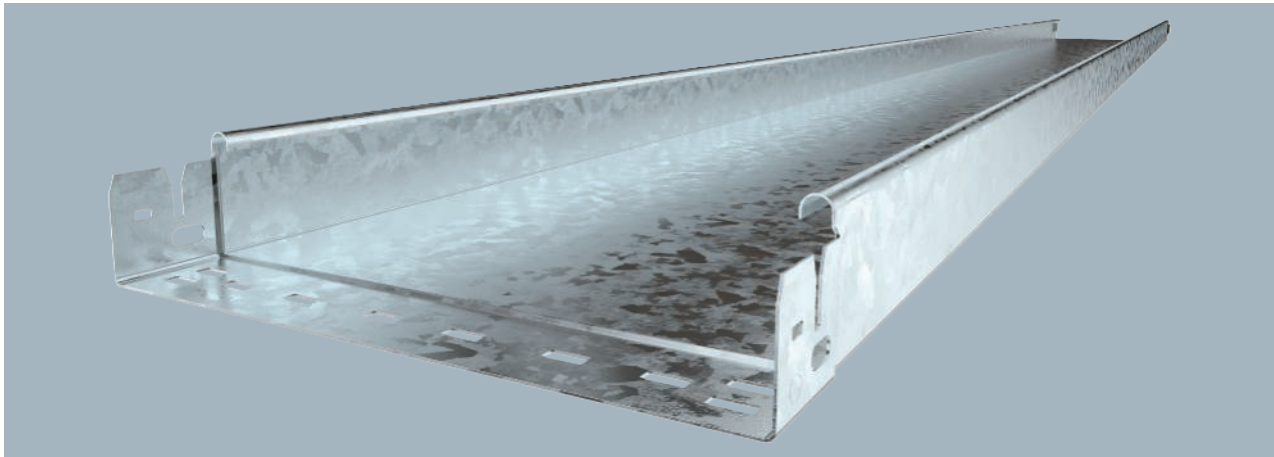
Load diagram, cable tray, type MKSMU 60

- 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

St FT



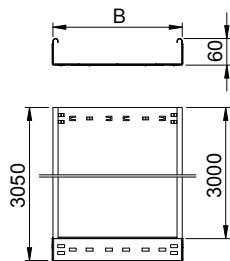
Cable tray MKS-Magic® 60, unperforated



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

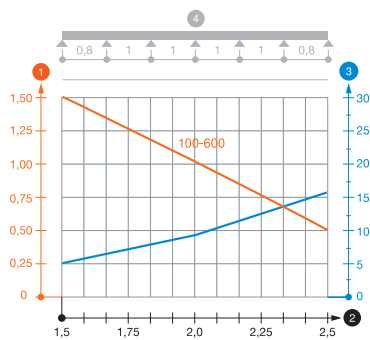
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKSMU 610 FT	100	1.00	3	210.688	6059248
MKSMU 615 FT	150	1.00	3	253.770	6059250
MKSMU 620 FT	200	1.00	3	296.819	6059252
MKSMU 630 FT	300	1.00	3	383.081	6059254
MKSMU 640 FT	400	1.00	3	469.311	6059256
MKSMU 650 FT	500	1.00	3	555.508	6059258
MKSMU 660 FT	600	1.00	3	641.770	6059260

Dimensions



Type	Length mm	Usable Dim. B mm	cross-section cm²
MKSMU 610 FT	3050	100	58
MKSMU 615 FT	3050	150	88
MKSMU 620 FT	3050	200	118
MKSMU 630 FT	3050	300	178
MKSMU 640 FT	3050	400	238
MKSMU 650 FT	3050	500	298
MKSMU 660 FT	3050	600	358

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSMU 610 FT	1.5	1	0.5
MKSMU 615 FT	1.5	1	0.5
MKSMU 620 FT	1.5	1	0.5
MKSMU 630 FT	1.5	1	0.5
MKSMU 640 FT	1.5	1	0.5
MKSMU 650 FT	1.5	1	0.5
MKSMU 660 FT	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® 60, unperforated

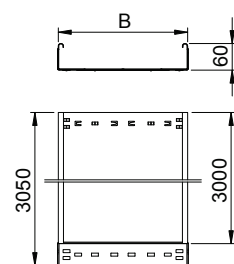


Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
SKSMU 610 FS	100	1.50	3	287.245	6059688
SKSMU 615 FS	150	1.50	3	346.032	6059690
SKSMU 620 FS	200	1.50	3	404.786	6059692
SKSMU 630 FS	300	1.50	3	522.426	6059694
SKSMU 640 FS	400	1.50	3	640.065	6059696
SKSMU 650 FS	500	1.50	3	757.704	6059698
SKSMU 660 FS	600	1.50	3	875.377	6059700

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

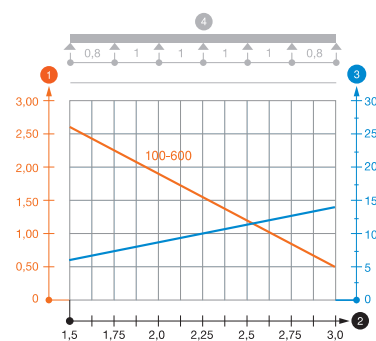
Type	Length mm	Dim. B mm	Usable cross- section cm ²
SKSMU 610 FS	3050	100	58
SKSMU 615 FS	3050	150	88
SKSMU 620 FS	3050	200	118
SKSMU 630 FS	3050	300	178
SKSMU 640 FS	3050	400	238
SKSMU 650 FS	3050	500	298
SKSMU 660 FS	3050	600	358

Dimensions



	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

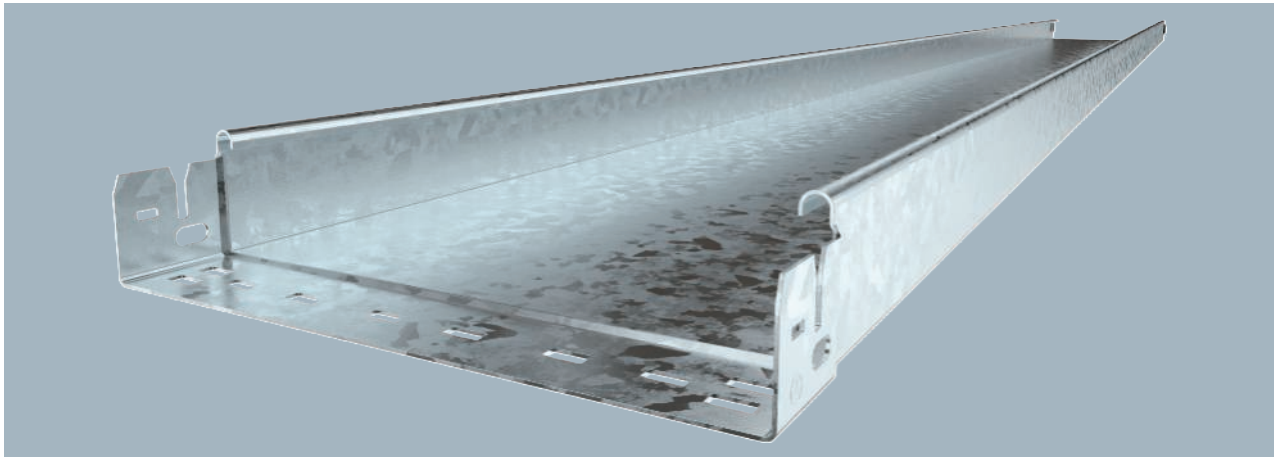


Load diagram, cable tray, type SKSMU 60

- 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

St FT

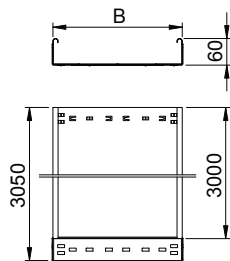
Cable tray SKS-Magic® 60, unperforated



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

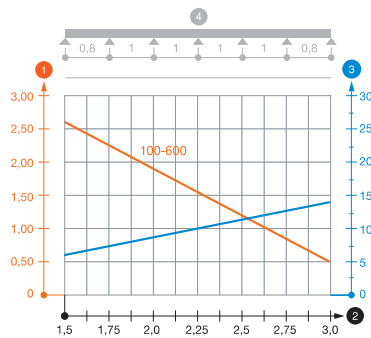
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
SKSMU 610 FT	100	1.50	3	306.262	6059705
SKSMU 615 FT	150	1.50	3	368.950	6059707
SKSMU 620 FT	200	1.50	3	431.573	6059709
SKSMU 630 FT	300	1.50	3	557.049	6059711
SKSMU 640 FT	400	1.50	3	682.491	6059713
SKSMU 650 FT	500	1.50	3	807.934	6059715
SKSMU 660 FT	600	1.50	3	933.377	6059717

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
SKSMU 610 FT	3050	100	58
SKSMU 615 FT	3050	150	88
SKSMU 620 FT	3050	200	118
SKSMU 630 FT	3050	300	178
SKSMU 640 FT	3050	400	238
SKSMU 650 FT	3050	500	298
SKSMU 660 FT	3050	600	358

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKSMU 610 FT	2.6	1.9	1.1	0.55
SKSMU 615 FT	2.6	1.9	1.1	0.55
SKSMU 620 FT	2.6	1.9	1.1	0.55
SKSMU 630 FT	2.6	1.9	1.1	0.55
SKSMU 640 FT	2.6	1.9	1.1	0.55
SKSMU 650 FT	2.6	1.9	1.1	0.55
SKSMU 660 FT	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® 60, unperforated

A2 2B

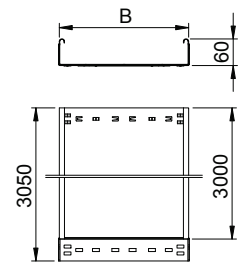


Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
SKSMU 610 A2	100	1.50	3	292.033	6059722
SKSMU 620 A2	200	1.50	3	411.533	6059726
SKSMU 630 A2	300	1.50	3	531.133	6059728
SKSMU 640 A2	400	1.50	3	650.733	6059730
SKSMU 650 A2	500	1.50	3	770.333	6059732
SKSMU 660 A2	600	1.50	3	889.967	6059734

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

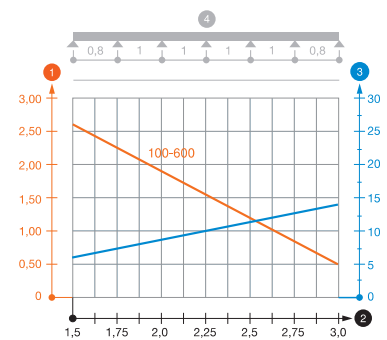
Type	Length mm	Dim. cross- section B mm	Usable section cm ²
SKSMU 610 A2	3050	100	58
SKSMU 620 A2	3050	200	118
SKSMU 630 A2	3050	300	178
SKSMU 640 A2	3050	400	238
SKSMU 650 A2	3050	500	298
SKSMU 660 A2	3050	600	358

Dimensions



	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



Load diagram, cable tray, type SKSMU 60

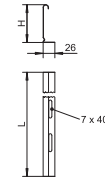
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width

St FS DD

Separating retainer 45

Type	Metal			Pack m	Weight kg/100 m	Item no.
	Dim. H mm	thick- ness mm	Dim. L mm			
TSG 45 FS	45	0.75	3000	3	46.700	6062033
TSG 45 DD	45	0.75	3000	3	46.812	6062321

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

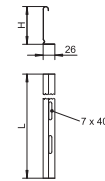


A2 A4 2B

Separating retainer 45

Type	Metal			Pack m	Weight kg/100 m	Item no.
	Dim. H mm	thick- ness mm	Dim. L mm			
TSG 45 A2	45	0.75	3000	3	49.850	6062025
TSG 45 A4	45	0.75	3000	3	49.850	6062028

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

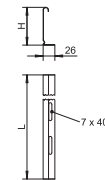


St FS DD

Separating retainer 60

Type	Metal			Pack m	Weight kg/100 m	Item no.
	Dim. H mm	thick- ness mm	Dim. L mm			
TSG 60 FS	60	0.75	3000	3	55.700	6062068
TSG 60 DD	60	0.75	3000	3	55.700	6062327

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

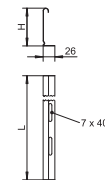


A2 A4 2B

Separating retainer 60

Type	Metal			Pack m	Weight kg/100 m	Item no.
	Dim. H mm	thick- ness mm	Dim. L mm			
TSG 60 A2	60	0.75	3000	3	59.265	6062084
TSG 60 A4	60	0.75	3000	3	59.256	6062086

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

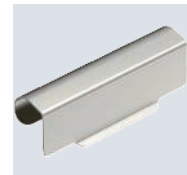
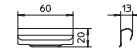


VA 2B

Separating retainer connector

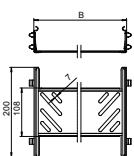
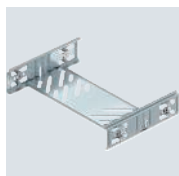
Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

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



St FS DD

Magic straight connector set 60



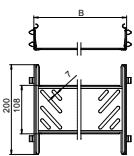
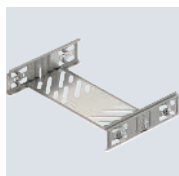
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
KTSMV 610 FS	60	100	1	30.500	6068914
KTSMV 615 FS	60	150	1	34.900	6068916
KTSMV 620 FS	60	200	1	37.200	6068918
KTSMV 630 FS	60	300	1	44.000	6068920
KTSMV 640 FS	60	400	1	50.700	6068922
KTSMV 650 FS	60	500	1	57.400	6068924
KTSMV 660 FS	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

Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 60 mm.

The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

Magic straight connector set 60

A2 A4 2B



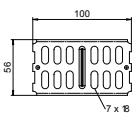
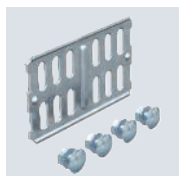
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
KTSMV 610 A2	60	100	1	30.500	6068958
KTSMV 620 A2	60	200	1	37.200	6068962
KTSMV 630 A2	60	300	1	44.000	6068964
KTSMV 640 A2	60	400	1	50.700	6068966
KTSMV 650 A2	60	500	1	57.400	6068968
KTSMV 660 A2	60	600	1	64.200	6068970
KTSMV 610 A4	60	100	1	30.500	6068980
KTSMV 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

Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 60 mm.

The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

Straight connector 60

St FS FT

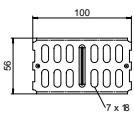


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVK 60 FS	60	10	9.976	6067093
RLVK 60 FT	60	10	10.300	6067603

Straight connector for straight connection of cable trays and fittings with a side height of 60 mm. Including appropriate fastening material.

Straight connector 60

A2 A4 2B



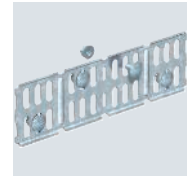
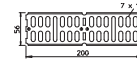
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVK 60 A2	60	10	9.780	6067654
RLVK 60 A4	60	10	9.780	6067675

Straight connector for straight connection of cable trays and fittings with a side height of 60 mm. Including appropriate fastening material.

St FS FT

Straight and angle connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RWVL 60 FS	60	10	16.400	6067115
RWVL 60 FT	60	10	17.400	6067611

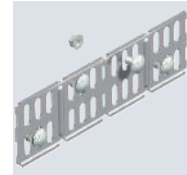
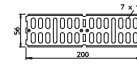


Straight and angle connector for cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.

A2 A4 2B

Straight and angle connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RWVL 60 A2	60	10	16.200	6067662
RWVL 60 A4	60	10	16.200	6067664

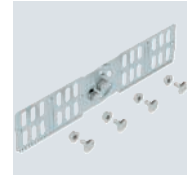
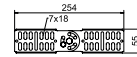


Straight and angle connector for cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.

St FS FT

Adjustable connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 60 FS	60	10	25.100	7082010
RGV 60 FT	60	10	23.890	7082223

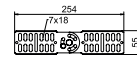


Adjustable connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.

A2 A4 2B

Adjustable connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 60 A2	60	10	25.100	7082258
RGV 60 A4	60	10	25.100	7082265

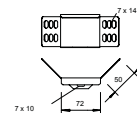


Adjustable connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.

St FS FT

Angle connector 60

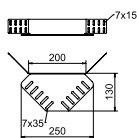
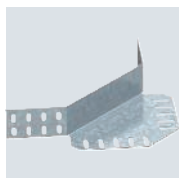
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WKV 60 FS	60	5	14.700	6043062
WKV 60 FT	60	5	15.800	6042910



Angle connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.

Corner connector 60

St FS DD

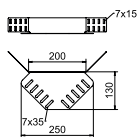


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 60 FS	60	10	32.000	6067972
REV 60 DD	60	1	32.000	6069410

Corner connector for cable trays with side height 60 mm.
Fastening materials should be ordered separately.

Corner connector 60

A2 A4 2B

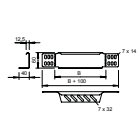
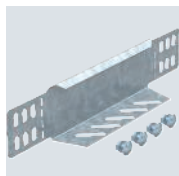


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 60 A2	60	5	32.000	6068022
REV 60 A4	60	5	32.000	6068054

Corner connector for cable trays with side height 60 mm.
Fastening materials should be ordered separately.

Reducer/stop-end 60

St FS DD

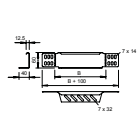
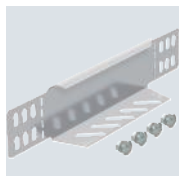


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 610 FS	60	100	1	12.300	7109105
RWEB 615 FS	60	150	1	17.600	7109156
RWEB 620 FS	60	200	1	22.800	7109202
RWEB 630 FS	60	300	1	30.700	7109296
RWEB 640 FS	60	400	1	39.600	7109407
RWEB 650 FS	60	500	1	47.500	7109504
RWEB 660 FS	60	600	1	55.500	7109601
RWEB 610 DD	60	100	1	12.300	7106106
RWEB 615 DD	60	150	1	17.900	7106110
RWEB 620 DD	60	200	1	22.600	7106114
RWEB 630 DD	60	300	1	30.700	7106118
RWEB 640 DD	60	400	1	39.600	7106122
RWEB 650 DD	60	500	1	47.500	7106126
RWEB 660 DD	60	600	1	55.500	7106130

Reducer/stop-end plate for cable trays with side height 60 mm.
From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

Reducer/stop-end 60

A2 2B



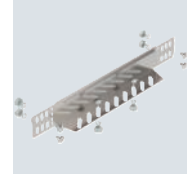
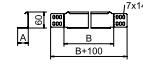
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 610 A2	60	100	1	12.500	7109814
RWEB 615 A2	60	150	1	18.000	7109816
RWEB 620 A2	60	200	1	22.900	7109830
RWEB 630 A2	60	300	1	31.200	7109857
RWEB 640 A2	60	400	1	37.300	7109873
RWEB 650 A2	60	500	1	48.100	7109903
RWEB 660 A2	60	600	1	56.100	7109938

Reducer/stop-end plate for cable trays with side height 60 mm.
From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

A4 2B

Reducer/stop-end 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 610 A4	60	95	1	13.200	7109951
RWEB 620 A4	60	195	1	24.000	7109953
RWEB 630 A4	60	295	1	32.100	7109955
RWEB 640 A4	60	395	1	41.300	7109957
RWEB 650 A4	60	495	1	49.400	7109959
RWEB 660 A4	60	595	1	57.400	7109961



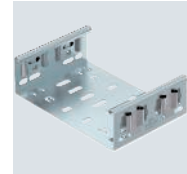
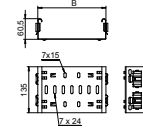
Reducer and end closure plate for cable trays with side height 60 mm.

From a width of 150 mm, a perforated lower flange is available. Including appropriate fastening material.

St DD

Magic 60 fitting connector

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	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



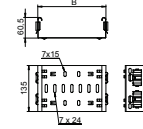
The fitting connector is compatible with cable tray types MKSM, MKSMU, SKSM and SKSMU.

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.

A2 2B

Magic 60 fitting connector

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
FVM 640 A2	60	400	1	69.400	6065738



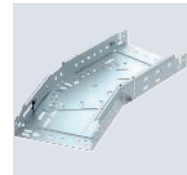
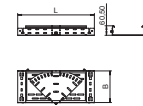
The fitting connector is compatible with cable tray types RKSM, MKSM, MKSMU, SKSM and SKSMU.

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.

St FS FT

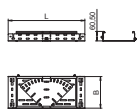
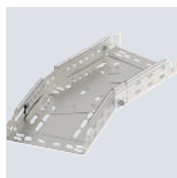
Magic 60 bend, variable

Type	Side height mm	Dim. B mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	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	614.000	6040508
RBMV 650 FT	60	500	960	1	1,083.700	6040510
RBMV 660 FT	60	600	1120	1	1,480.900	6040512



Magic bend 0°–90°, variable, with quick connector system. For all cable tray types of 60 mm side height.

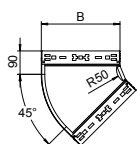
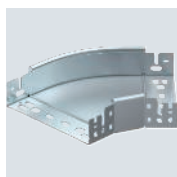
Magic 60 bend, variable



Type	Side height mm	Dim. B mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
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 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

Magic bend 0°–90°, variable, with quick connector system. For all cable tray types of 60 mm side height.

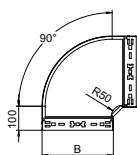
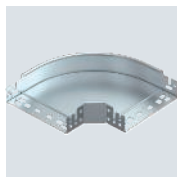
45° Magic bend 60



Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 45 610 FS	60	100	1	50.400	6041040
RBM 45 615 FS	60	150	1	67.300	6041042
RBM 45 620 FS	60	200	1	85.500	6041044
RBM 45 630 FS	60	300	1	127.700	6041046
RBM 45 640 FS	60	400	1	174.800	6041048
RBM 45 650 FS	60	500	1	232.700	6041050
RBM 45 660 FS	60	600	1	298.300	6041052
RBM 45 610 FT	60	100	1	54.000	6041060
RBM 45 615 FT	60	150	1	72.200	6041062
RBM 45 620 FT	60	200	1	92.400	6041064
RBM 45 630 FT	60	300	1	137.800	6041066
RBM 45 640 FT	60	400	1	189.100	6041068
RBM 45 650 FT	60	500	1	249.500	6041070
RBM 45 660 FT	60	600	1	319.900	6041072

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

90° Magic bend 60



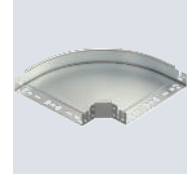
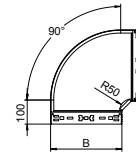
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 90 610 FS	60	100	1	65.700	6041130
RBM 90 615 FS	60	150	1	91.900	6041132
RBM 90 620 FS	60	200	1	121.900	6041134
RBM 90 630 FS	60	300	1	192.200	6041136
RBM 90 640 FS	60	400	1	274.700	6041138
RBM 90 650 FS	60	500	1	376.300	6041140
RBM 90 660 FS	60	600	1	487.000	6041142
RBM 90 610 FT	60	100	1	70.700	6041150
RBM 90 615 FT	60	150	1	99.300	6041152
RBM 90 620 FT	60	200	1	131.300	6041154
RBM 90 630 FT	60	300	1	207.500	6041156
RBM 90 640 FT	60	400	1	296.300	6041158
RBM 90 650 FT	60	500	1	406.300	6041160
RBM 90 660 FT	60	600	1	532.300	6041162

90° bend with quick connector system. For all cable tray types of 60 mm side height.

A2 A4 2B

90° Magic bend 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 90 610 A2	60	100	1	65.700	6041180
RBM 90 620 A2	60	200	1	121.900	6041184
RBM 90 630 A2	60	300	1	192.200	6041186
RBM 90 640 A2	60	400	1	274.700	6041188
RBM 90 650 A2	60	500	1	376.300	6041190
RBM 90 660 A2	60	600	1	493.000	6041192
RBM 90 610 A4	60	100	1	65.700	6041200
RBM 90 615 A4	60	150	1	91.900	6041202
RBM 90 620 A4	60	200	1	121.900	6041204
RBM 90 630 A4	60	300	1	192.200	6041206
RBM 90 640 A4	60	400	1	274.700	6041208
RBM 90 650 A4	60	500	1	376.300	6041210
RBM 90 660 A4	60	600	1	493.000	6041212

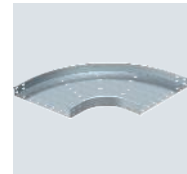
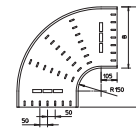


90° bend with quick connector system. For all cable tray types of 60 mm side height.

St FT SO

90° bend FT SOMY

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 660 FT SO	60	600	1	750.000	7196290

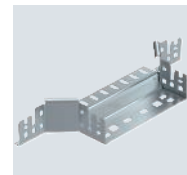
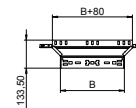


90° bend, horizontal, for all cable tray types of 60 mm side height.

St FS FT

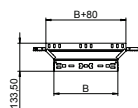
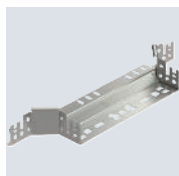
Add-on tee 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAAM 610 FS	60	100	1	37.700	6041230
RAAM 615 FS	60	150	1	42.046	6041232
RAAM 620 FS	60	200	1	50.100	6041234
RAAM 630 FS	60	300	1	60.940	6041236
RAAM 640 FS	60	400	1	75.700	6041238
RAAM 650 FS	60	500	1	89.300	6041240
RAAM 660 FS	60	600	1	102.700	6041242
RAAM 610 FT	60	100	1	40.800	6041250
RAAM 615 FT	60	150	1	47.500	6041252
RAAM 620 FT	60	200	1	54.200	6041254
RAAM 630 FT	60	300	1	68.000	6041257
RAAM 640 FT	60	400	1	81.800	6041259
RAAM 650 FT	60	500	1	105.400	6041261
RAAM 660 FT	60	600	1	110.100	6041263



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

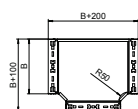
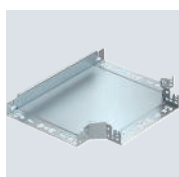
Magic add-on tee 60



Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAAM 610 A2	60	100	1	37.700	6041270
RAAM 620 A2	60	200	1	50.100	6041275
RAAM 630 A2	60	300	1	62.900	6041277
RAAM 640 A2	60	400	1	75.700	6041279
RAAM 650 A2	60	500	1	89.300	6041282
RAAM 660 A2	60	600	1	102.700	6041284
RAAM 610 A4	60	100	1	37.700	6041290
RAAM 620 A4	60	200	1	50.100	6041294
RAAM 630 A4	60	300	1	62.900	6041296
RAAM 640 A4	60	400	1	75.700	6041298
RAAM 650 A4	60	500	1	89.300	6041300
RAAM 660 A4	60	600	1	102.700	6041303

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

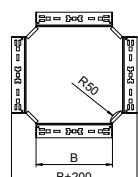
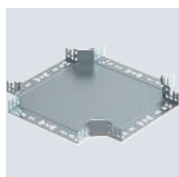
Magic 60 T branch piece



Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RTM 610 FS	60	100	1	83.600	6041320
RTM 615 FS	60	150	1	114.700	6041322
RTM 620 FS	60	200	1	150.600	6041324
RTM 630 FS	60	300	1	228.420	6041326
RTM 640 FS	60	400	1	335.600	6041328
RTM 650 FS	60	500	1	458.500	6041330
RTM 660 FS	60	600	1	605.000	6041332
RTM 610 FT	60	100	1	89.600	6041340
RTM 615 FT	60	150	1	123.000	6041342
RTM 620 FT	60	200	1	161.500	6041344
RTM 630 FT	60	300	1	253.300	6041348
RTM 640 FT	60	400	1	359.900	6041350
RTM 650 FT	60	500	1	495.100	6041352
RTM 660 FT	60	600	1	648.800	6041354

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

Magic 60 cross-over



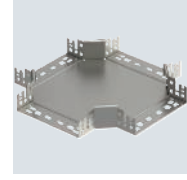
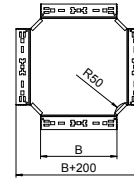
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RKM 610 FS	60	100	1	92.500	7027001
RKM 615 FS	60	150	1	123.800	7027003
RKM 620 FS	60	200	1	159.800	7027005
RKM 630 FS	60	300	1	244.600	7027007
RKM 640 FS	60	400	1	343.400	7027009
RKM 650 FS	60	500	1	468.300	7027011
RKM 660 FS	60	600	1	610.100	7027013
RKM 610 FT	60	100	1	100.000	7027021
RKM 620 FT	60	200	1	172.700	7027025
RKM 630 FT	60	300	1	264.300	7027027
RKM 640 FT	60	400	1	368.200	7027029
RKM 650 FT	60	500	1	502.200	7027031
RKM 660 FT	60	600	1	658.800	7027033

Cross-over with quick connector system. For all cable tray types of 60 mm side height.

A2 2B

Magic 60 cross-over

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RKM 630 A2	60	300	1	244.600	7027047

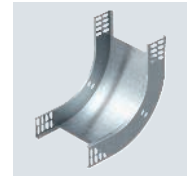
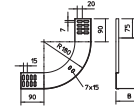


Cross-over with quick connector system. For all cable tray types of 60 mm side height.

St FS FT

90° vertical bend, rising 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	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



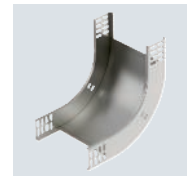
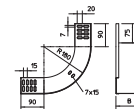
90° rising vertical bend, for all cable tray types of 60 mm side height.

The vertical bend is pushed over the end of the cable tray and screwed tight. Fastening materials should be ordered separately.

A2 A4 2B

90° vertical bend, rising 60

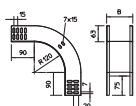
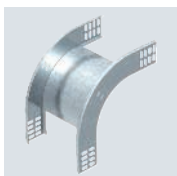
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 610 S A2	60	100	1	66.000	7007105
RBV 620 S A2	60	200	1	109.000	7007109
RBV 630 S A2	60	300	1	145.000	7007113
RBV 640 S A2	60	400	1	181.000	7007117
RBV 650 S A2	60	500	1	216.000	7007119
RBV 660 S A2	60	600	1	252.000	7007121
RBV 610 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



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

The vertical bend is pushed over the end of the cable tray and screwed tight. Fastening materials should be ordered separately.

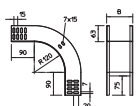
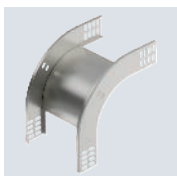
90° vertical bend, falling 60



Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	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

90° vertical bend, falling, for all cable tray types of 60 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

90° vertical bend, falling 60



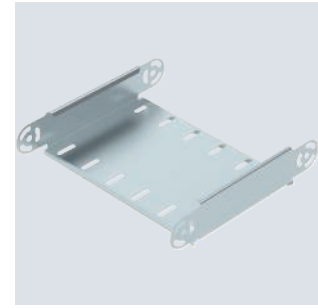
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 610 F A2	60	100	1	61.000	7007155
RBV 620 F A2	60	200	1	84.000	7007157
RBV 630 F A2	60	300	1	107.000	7007159
RBV 640 F A2	60	400	1	130.000	7007161
RBV 650 F A2	60	500	1	153.000	7007163
RBV 660 F A2	60	600	1	176.000	7007165
RBV 610 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

90° vertical bend, falling, for all cable tray types of 60 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

St FS FT

Adjustable bend element, vertical 60

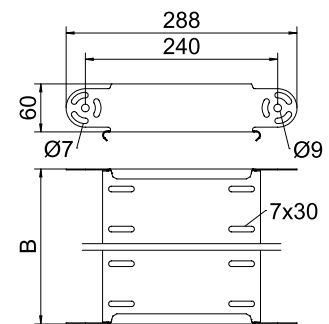
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBEV 610 FS	60	1	48.100	7005326
RGBEV 620 FS	60	1	63.600	7005342
RGBEV 630 FS	60	1	80.400	7005369
RGBEV 640 FS	60	1	114.000	7005385
RGBEV 650 FS	60	1	134.000	7005407
RGBEV 660 FS	60	1	155.900	7005423
RGBEV 610 FT	60	1	52.400	7075103
RGBEV 615 FT	60	1	60.300	7075154
RGBEV 620 FT	60	1	69.300	7075200
RGBEV 630 FT	60	1	87.600	7075308
RGBEV 640 FT	60	1	123.000	7075405
RGBEV 650 FT	60	1	144.000	7075502
RGBEV 660 FT	60	1	167.200	7075596



Adjustable vertical bend element, for all cable tray types with a side height of 60 mm.
 RGV 60 adjustable connectors should be ordered separately and in the appropriate quantity.

Type	Dim. B mm	Metal thickness mm
RGBEV 610 FS	100	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

Dimensions

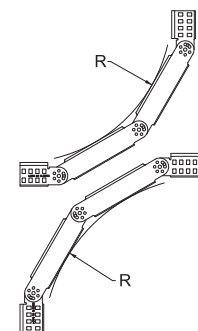


Radius table

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 60 adjustable connectors separately.

Installation



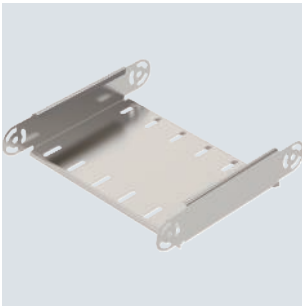
90° adjustable bend, vertical 60



Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBV 610 FS	60	100	1	173.700	7006322
RGBV 620 FS	60	200	1	219.000	7006349
RGBV 630 FS	60	300	1	260.000	7006365
RGBV 640 FS	60	400	1	302.000	7006381
RGBV 650 FS	60	500	1	367.000	7006411
RGBV 660 FS	60	600	1	430.000	7006446

90° adjustable vertical bend, for all cable tray types with a side height of 60 mm.
The bend is shipped in an unmounted state. No additional fastening materials are required.

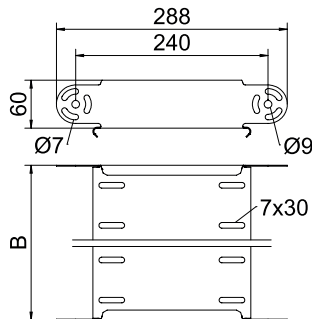
Adjustable vertical bend element 60



Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBEV 610 A2	60	1	53.300	7075651
RGBEV 620 A2	60	1	74.100	7075653
RGBEV 630 A2	60	1	94.800	7075655
RGBEV 640 A2	60	1	115.500	7075657
RGBEV 650 A2	60	1	136.200	7075659
RGBEV 660 A2	60	1	157.000	7075661
RGBEV 610 A4	60	1	54.000	7075671
RGBEV 620 A4	60	1	75.000	7075673
RGBEV 630 A4	60	1	96.000	7075675
RGBEV 640 A4	60	1	117.000	7075677
RGBEV 650 A4	60	1	138.000	7075679
RGBEV 660 A4	60	1	159.000	7075681

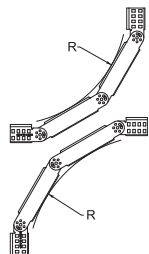
Adjustable vertical bend element, for all cable tray types with a side height of 60 mm.
RGV 60 adjustable connectors should be ordered separately and in the appropriate quantity.

Dimensions



Type	Dim. B mm	Metal thickness mm
RGBEV 610 A2	100	1.00
RGBEV 620 A2	200	1.00
RGBEV 630 A2	300	1.00
RGBEV 640 A2	400	1.00
RGBEV 650 A2	500	1.00
RGBEV 660 A2	600	1.00

Installation



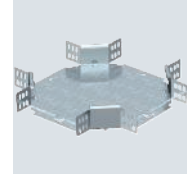
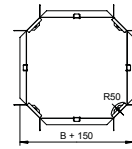
Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	approx. 600 mm
4	approx. 750 mm
5	approx. 900 mm

Please order two RGV 60 articulated connectors separately.

St FS

Cross-over 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RK 610 FS	60	100	1	89.500	6043615
RK 615 FS	60	150	1	111.100	6043607
RK 620 FS	60	200	1	136.200	6043623
RK 630 FS	60	300	1	197.800	6043631

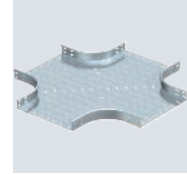
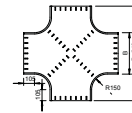


Horizontal cross-over for all cable tray types of 60 mm side height.
The fitting is shipped in an unmounted state. All the sides are designed for the same cable tray width.
Including appropriate fastening material.

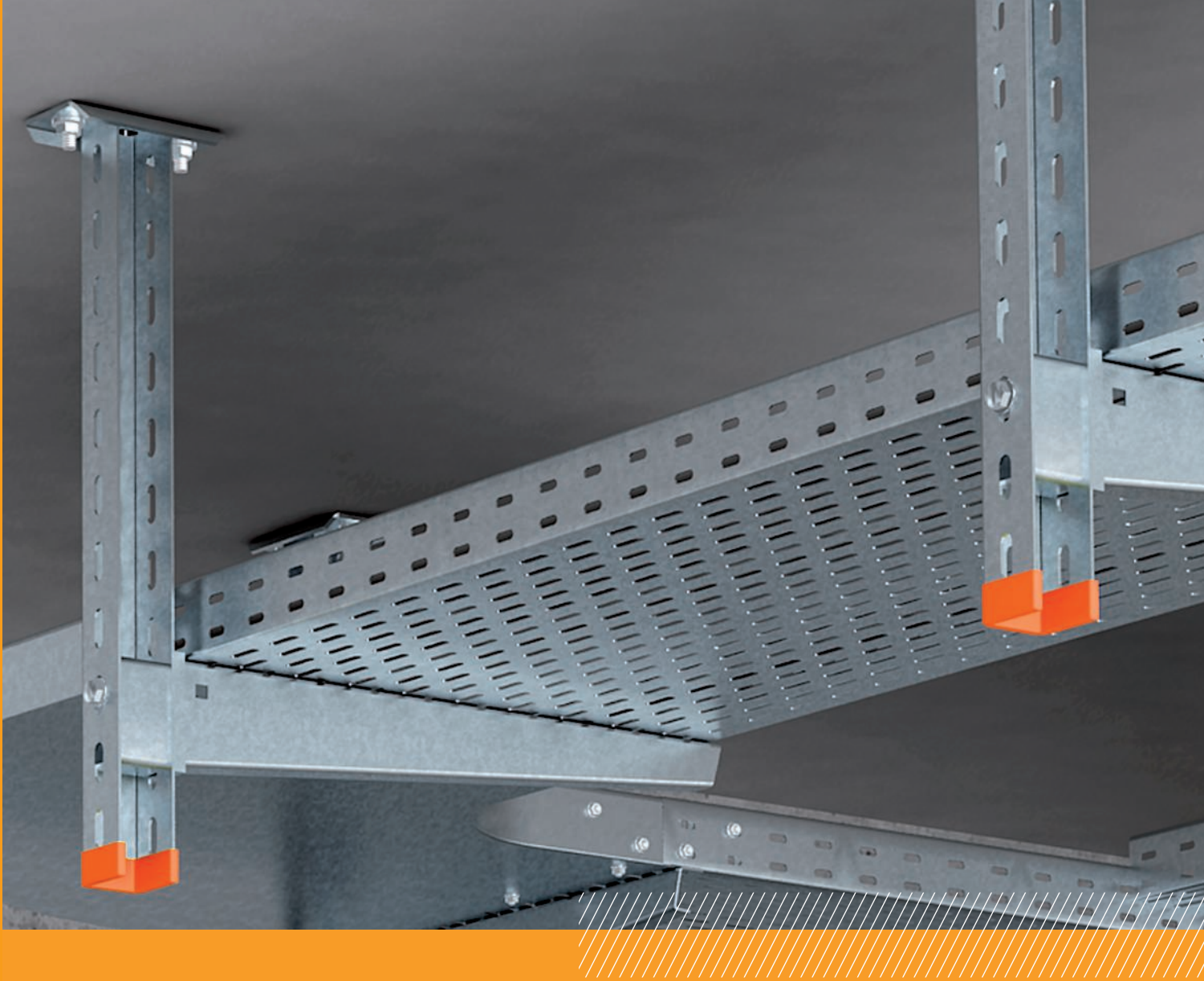
St FS FT

Cross-over 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RK 640 FS	60	400	1	800.000	7004397
RK 650 FS	60	500	1	1,120.000	7004419
RK 660 FS	60	600	1	1,291.000	7004435
RK 640 FT	60	400	1	860.000	7113404
RK 650 FT	60	500	1	1,190.000	7113501
RK 660 FT	60	600	1	1,370.000	7113609



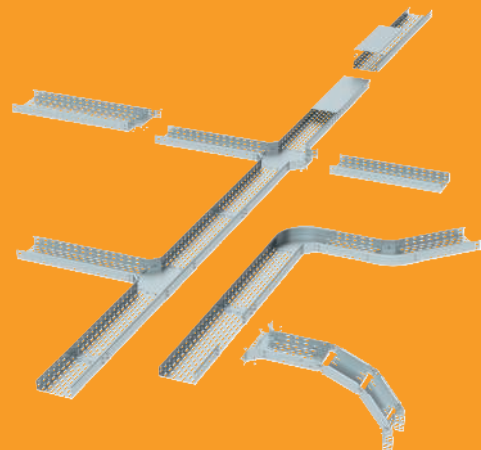
Horizontal cross-over for all cable tray types of 60 mm side height.
Fitting in round design. The interior radius of the fitting is 150 mm. All the sides are designed for the same cable tray width.
Fastening materials should be ordered separately.



Cable tray system MKS

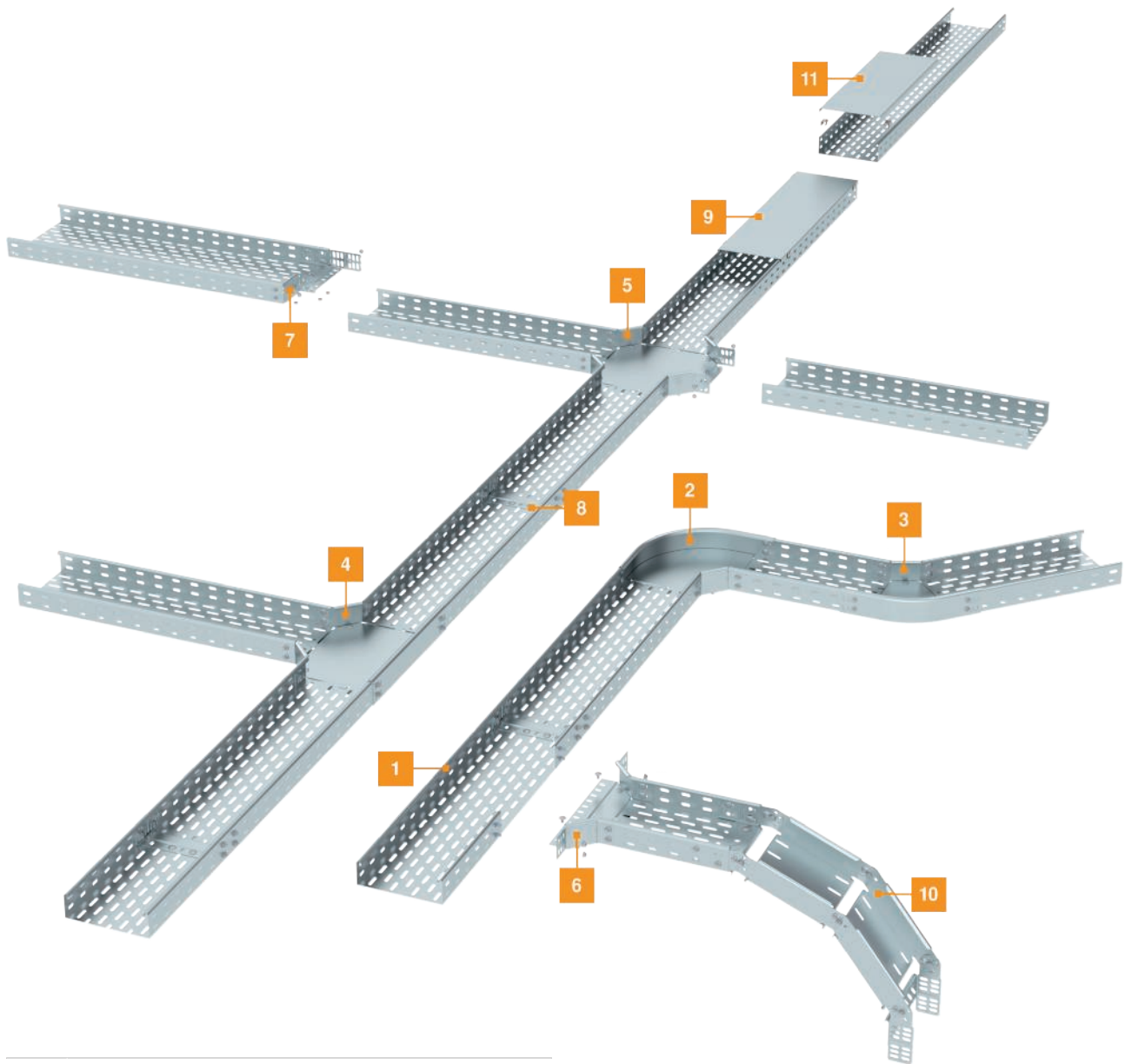
The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task. No matter whether used in dry inner areas or in aggressive atmospheres: Different surface versions and materials ensure safe corrosion protection.

- Medium-duty cable tray system with side heights of 35, 60 and 85 mm
- Various fittings, functional connectors and additional accessories



Cable tray system MKS

Installation principle



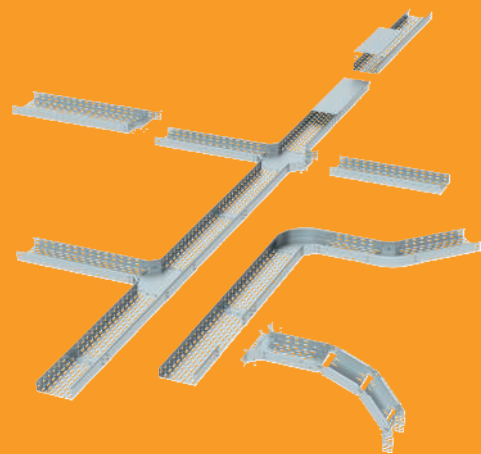
- | | |
|----|-------------------------------------|
| 1 | Cable tray MKS |
| 2 | 90° bend |
| 3 | 45° bend |
| 4 | T branch piece |
| 5 | Cross-over |
| 6 | Add-on tee |
| 7 | Reducer/stop-end |
| 8 | Straight connectors and joint plate |
| 9 | Cover with turn buckle |
| 10 | Adjustable bend element |
| 11 | Unperforated cover with cover clamp |



Cable tray system SKS

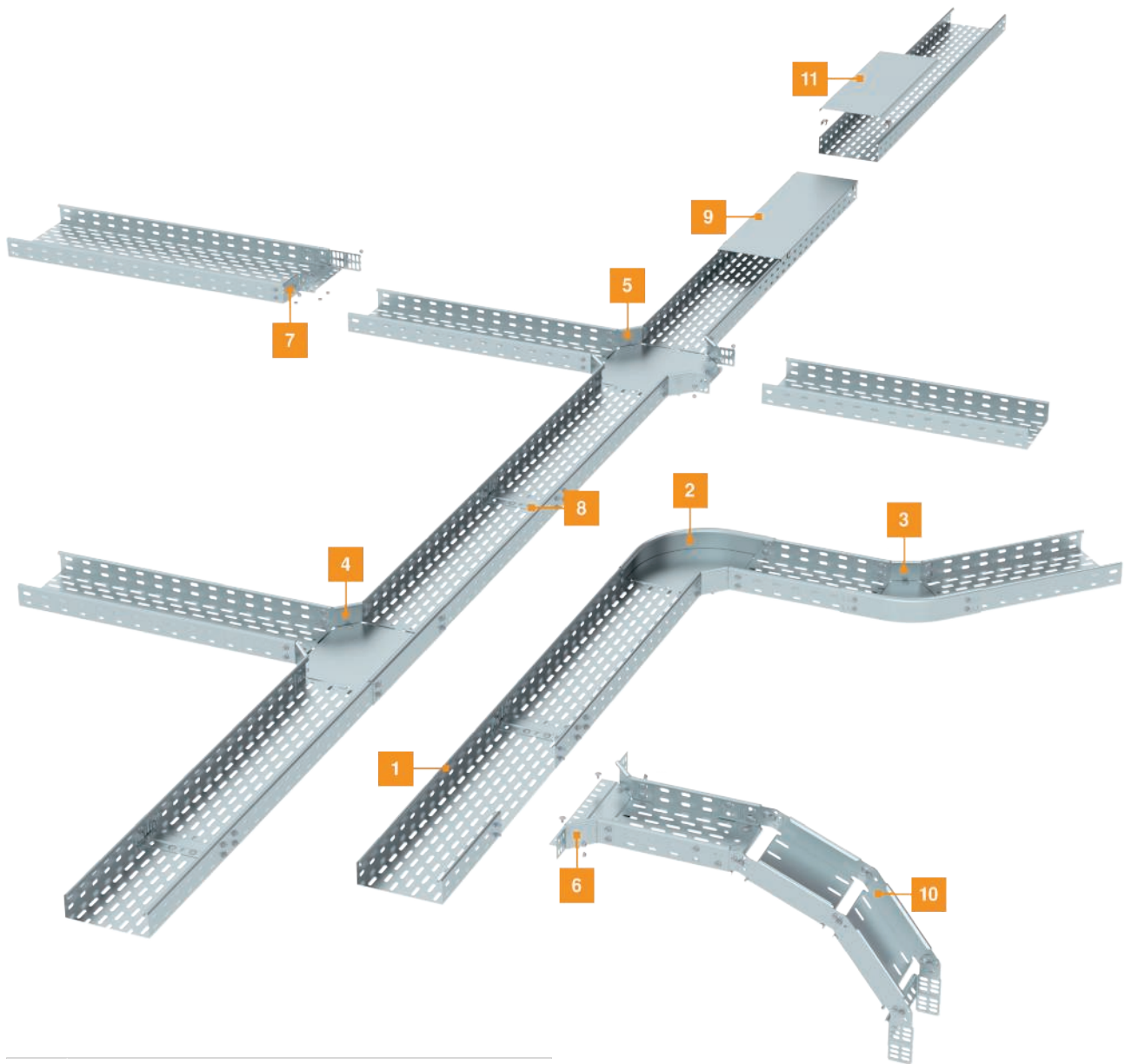
The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task. No matter whether used in dry inner areas or in aggressive atmospheres: Different surface versions and materials ensure safe corrosion protection.

- Medium-duty cable tray system with side heights of 60, 85 and 110 mm
- Various fittings, functional connectors and additional accessories

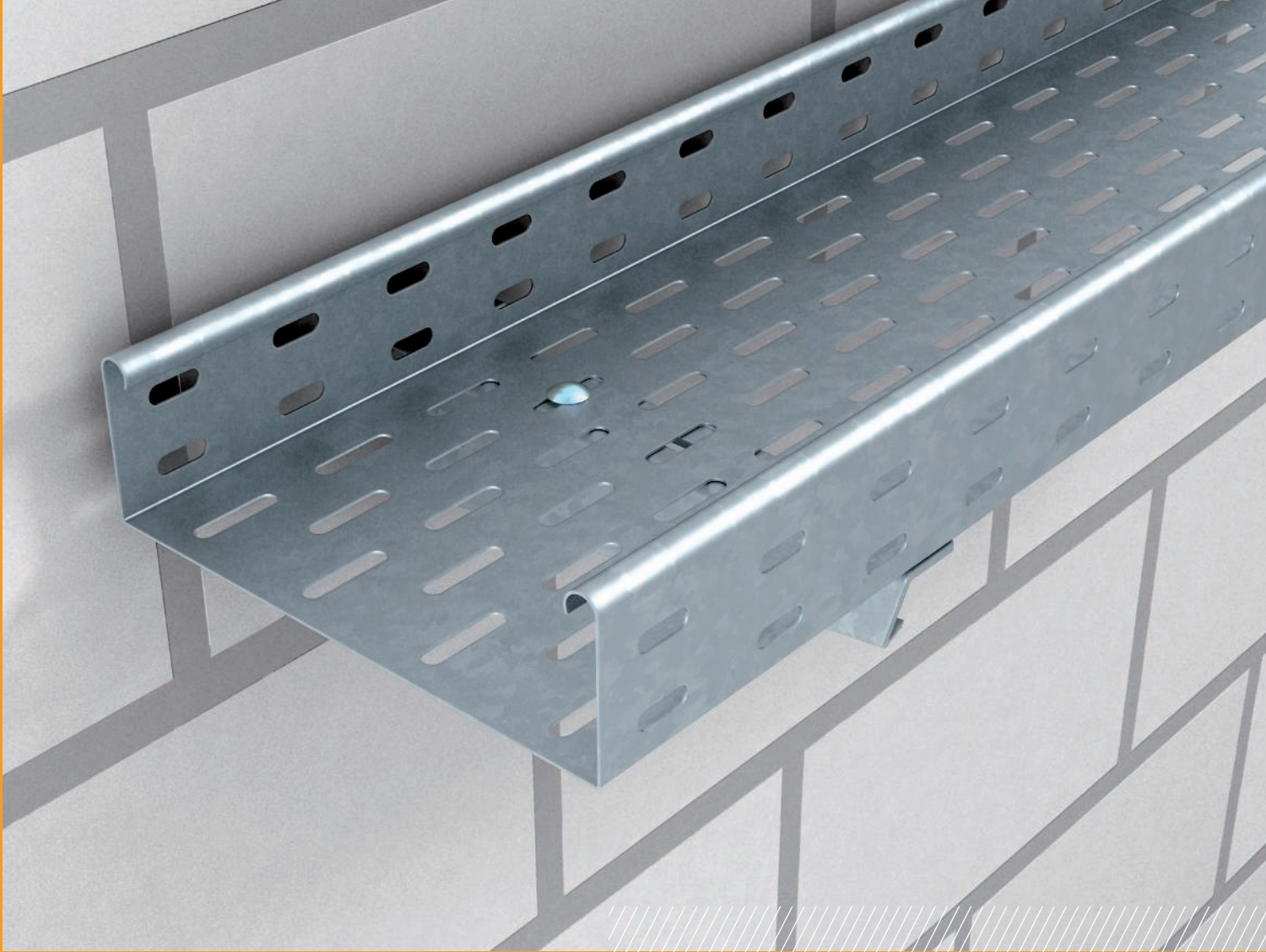


Cable tray system SKS

Installation principle



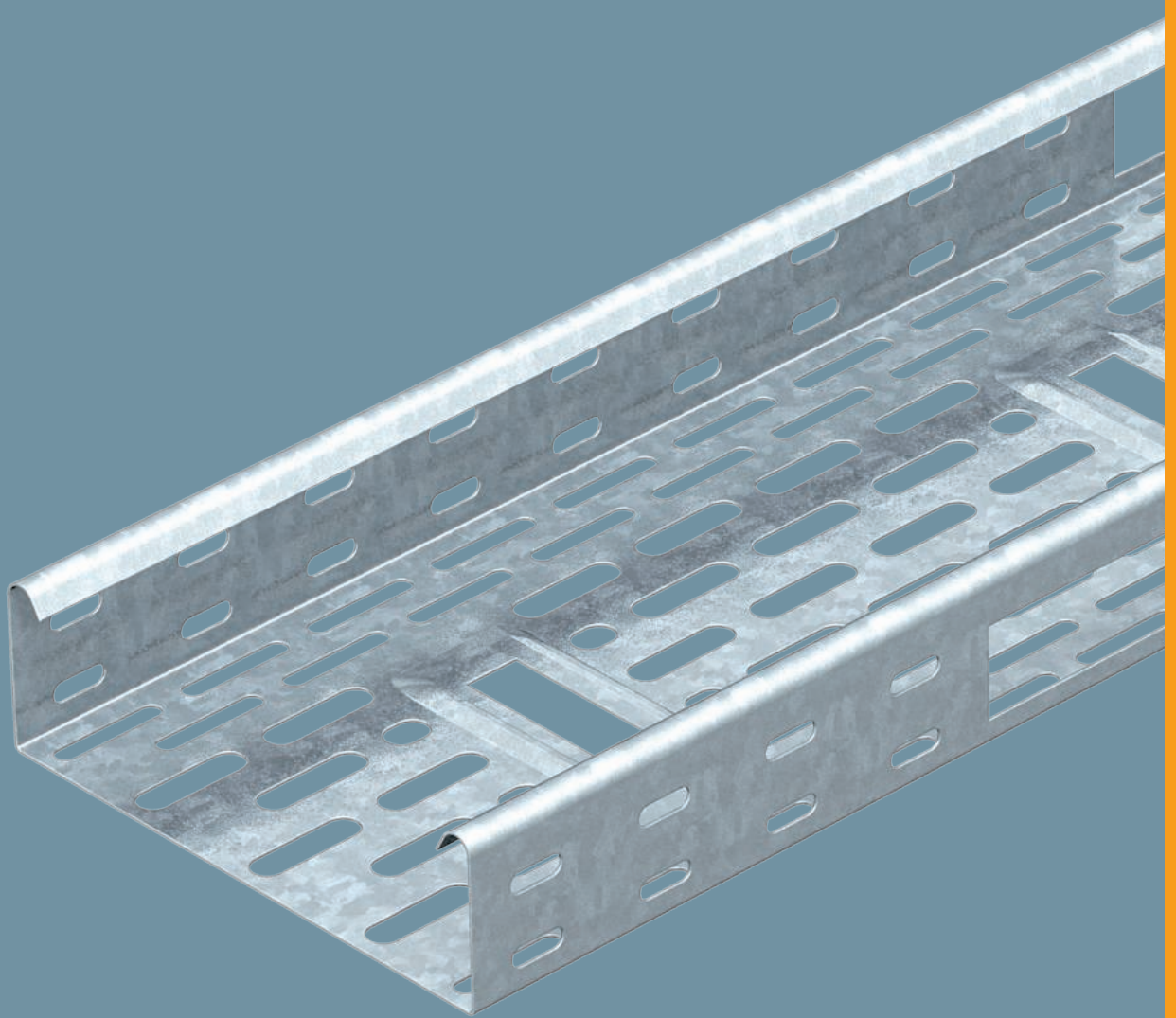
- | | |
|----|-------------------------------------|
| 1 | Cable tray SKS |
| 2 | 90° bend |
| 3 | 45° bend |
| 4 | T branch piece |
| 5 | Cross-over |
| 6 | Add-on tee |
| 7 | Reducer/stop-end |
| 8 | Straight connectors and joint plate |
| 9 | Cover with turn buckle |
| 10 | Adjustable bend element |
| 11 | Unperforated cover with cover clamp |



Cable tray system EKS

The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task. No matter whether used in dry inner areas or in aggressive atmospheres: Different surface versions and materials ensure safe corrosion protection.

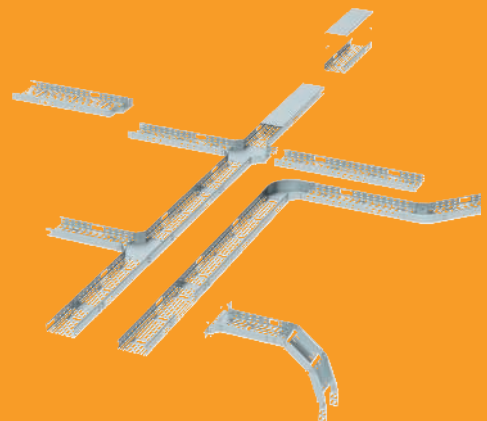
- Extra-heavy cable tray system with 60 mm side height
- Various fittings, functional connectors and additional accessories



Cable tray system IKS

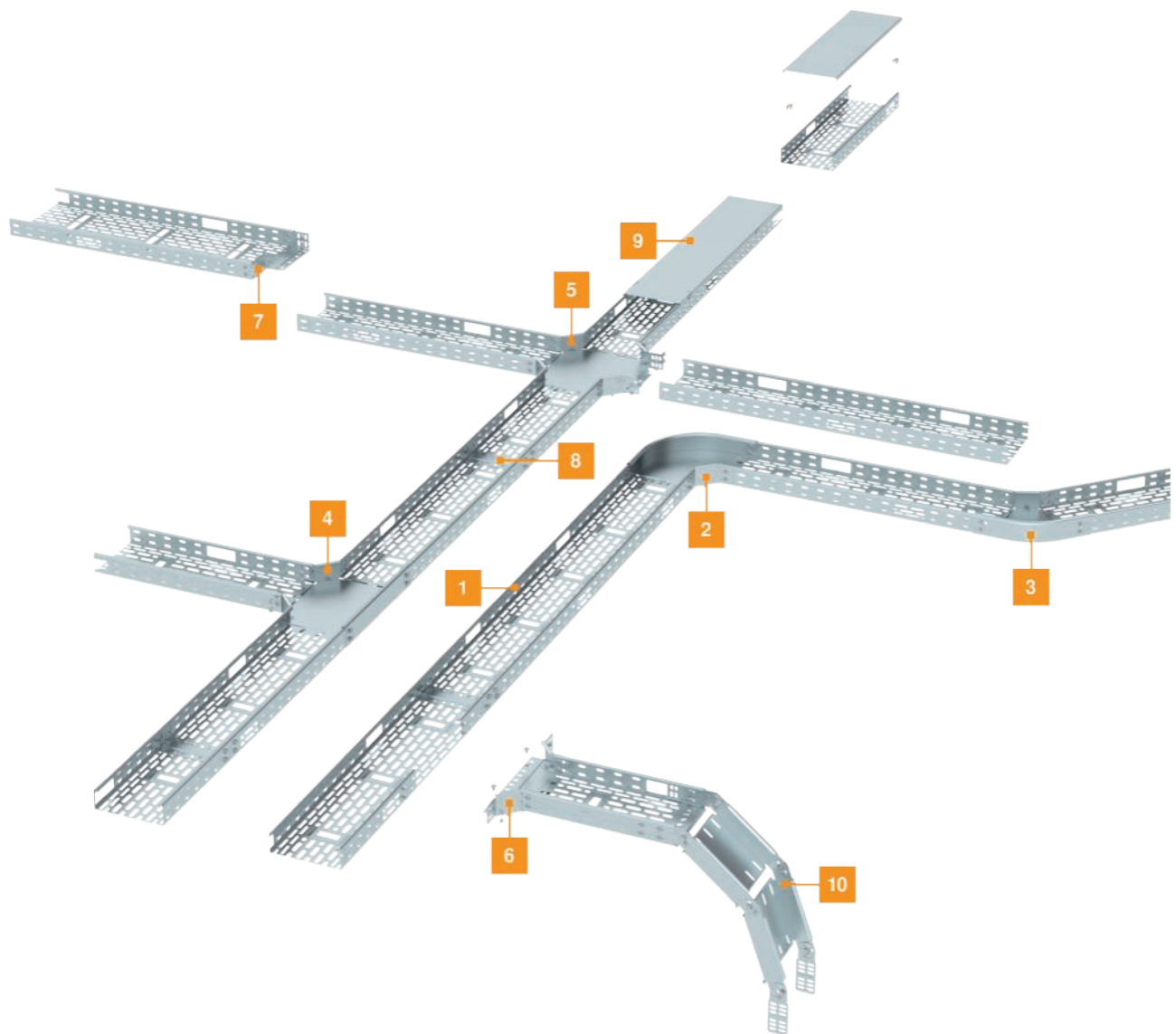
The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task. No matter whether used in dry inner areas or in aggressive atmospheres: Different surface versions and materials ensure safe corrosion protection.

- Installation cable tray system with 60 mm side height
- 30% hole surface for use under sprinkler systems
- Various fittings, all types of connectors and additional accessories



Cable tray system IKS

Installation principle



- | | |
|----|-------------------------------------|
| 1 | Cable tray IKS |
| 2 | 90° bend |
| 3 | 45° bend |
| 4 | T branch piece |
| 5 | Cross-over |
| 6 | Add-on tee |
| 7 | Reducer/stop-end |
| 8 | Straight connectors and joint plate |
| 9 | Unperforated cover with cover clamp |
| 10 | Adjustable bend element |

Mounting aid



Installation of RV straight connector set

Straight connection of the cable trays through simply clamping the connector set RV into the side rail.



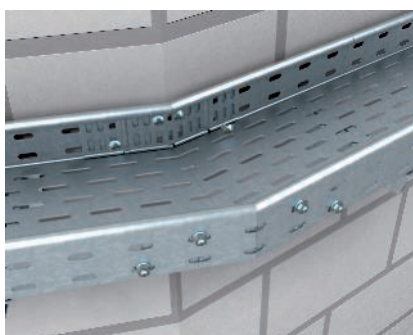
Screwless straight connector set, type RV

Press the corresponding joint plate downwards and snap it in place.



Straight connection with joint cover

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



Horizontal angle connection of cable trays

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



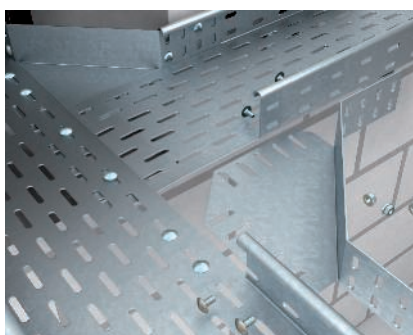
Vertical adjustable connection of cable trays

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



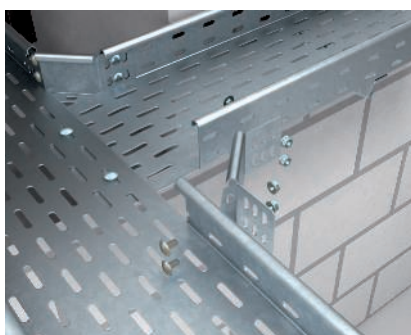
Bend creation with corner connector

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



Direct connection with corner connectors

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



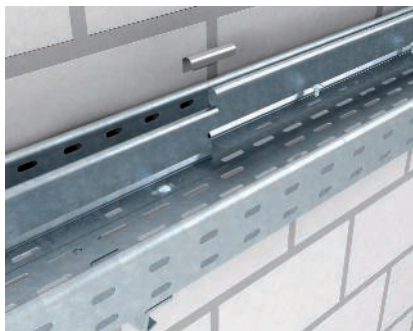
Branch with angle connectors

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

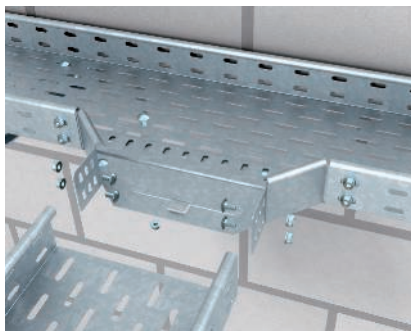


Installation of reducer / stop-end

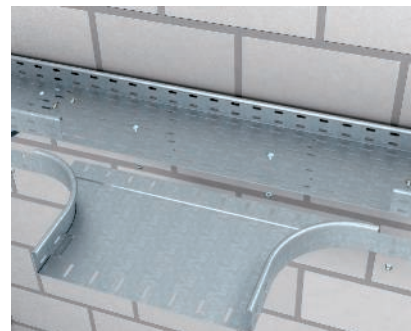
The reducer / stop-end plate component is used as closure and to reduce the width of cable trays.



Barrier strip mounting with screw connection
Screwed barrier strip fastening of the barrier strip, TSG 60, with truss-head bolts M6x12. The barrier strip can simply be run over the joint and connected without bolts using the barrier strip connector TSGV.



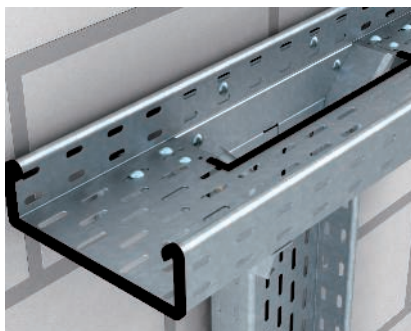
Installation of add-on tee (width 100 – 300 mm)
To mount the add-on tee, separate the cable tray rail and screw it tight. Additional supports should be planned for the area of the fittings.



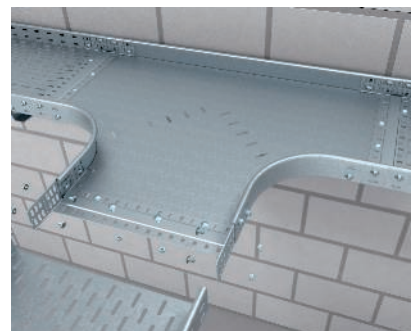
Installation of add-on tee (width 400 – 600 mm)
To mount the add-on tee, separate the cable tray rail and screw it tight. Additional supports should be planned for the area of the fittings.



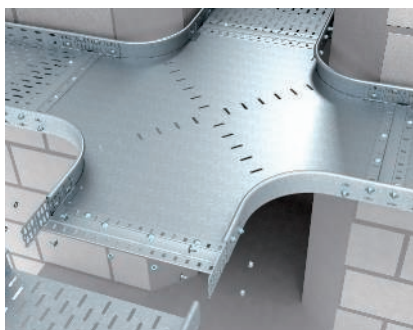
Installation of vertical add-on tee
Vertical mounting of the add-on tee as length-wise funnel.



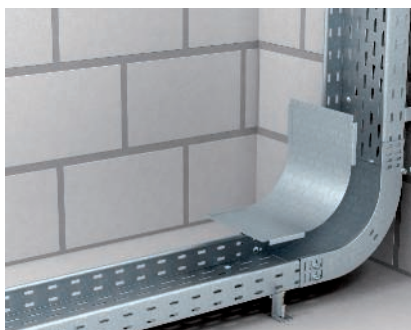
Installation of vertical add-on tee
Vertical mounting of the add-on tee as length-wise funnel.



Installation of tee
The tee in widths is connected to the cable tray using connectors and a joint plate. Additional supports should be planned for the area of the fittings.



Installation of cross-over
The cross-over is connected to the cable tray using connectors and a joint plate. Additional supports should be planned for the area of the fittings.



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



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



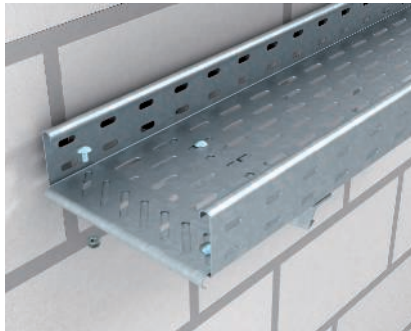
Installation of falling adjustable vertical bend
Adjustable vertical bend to bridge height offsets. The adjustable vertical bend is connected with to the cable tray using the adjustable connectors.



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



Screwless cover mounting
Unperforated covers are mounted using cover clamps, type DK DRLU. The cover clamps are first clamped to the cover edge and then snapped on to the cable tray rail with the cover.



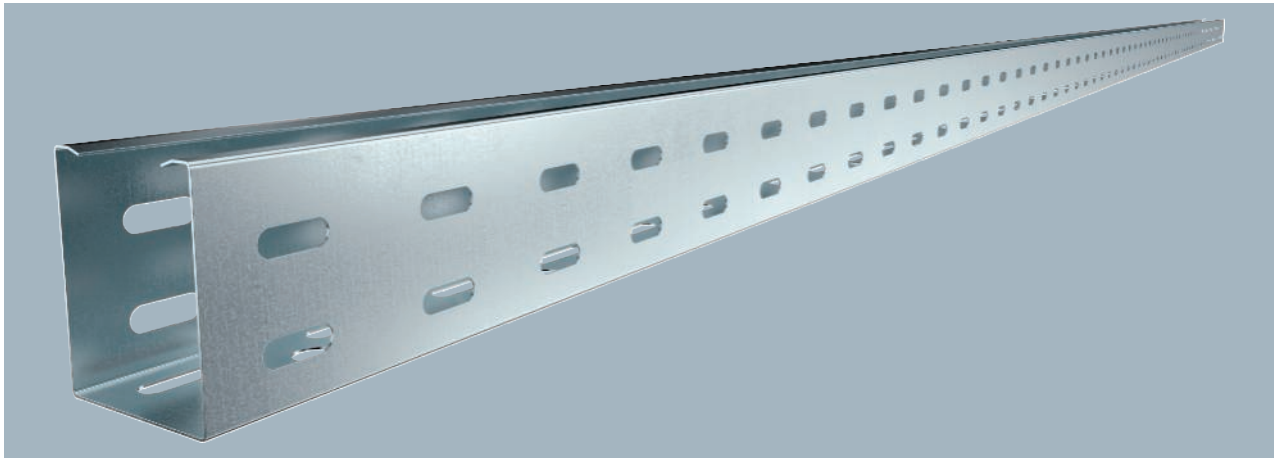
Installation of bottom end plate
Fastening of the bottom end plate, type BEB, to protect the cables.



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

Cable tray RKS 60

St FS



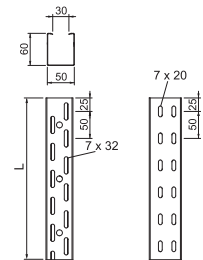
Type	Side height mm	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
RKS 605 FS	60	50	0.75	3	96.000	6047600

RKS 60 = Rational cable tray system with 60 mm side height (unbeaded base plate).

Cable tray with continuous bottom and side perforation as well as central holes (Ø11 mm) in the base for additional fastenings.

Type	Dim. L mm	Usable cross-section cm ²
RKS 605 FS	3000	30

Dimensions

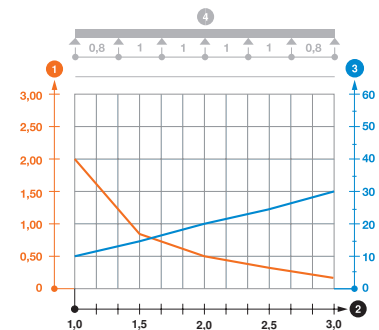


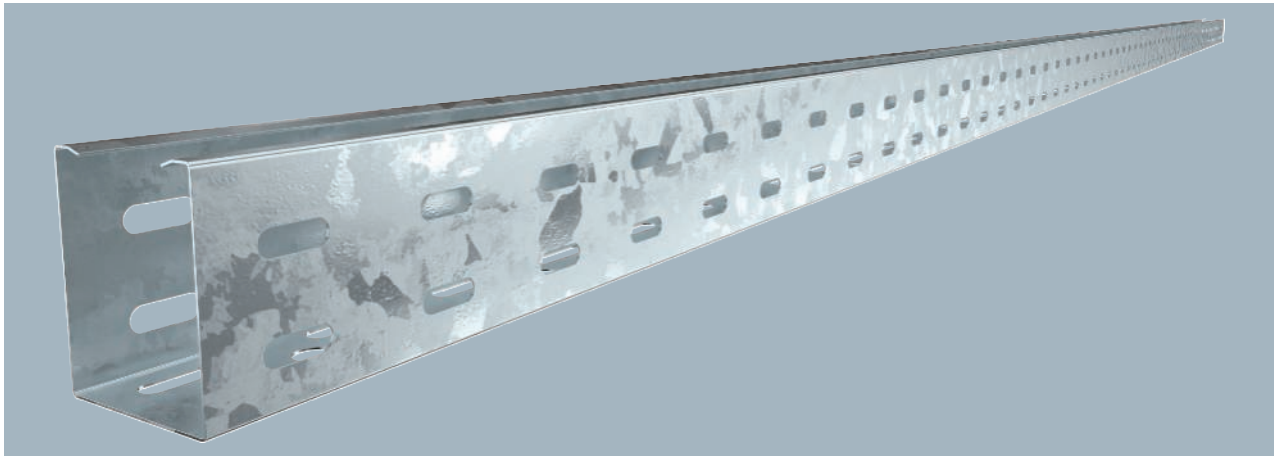
	1.0 m	1.5 m	2.0 m	2.5 m	3.0 m
RKS 605 FS	2	0.8	0.5	0.35	0.15

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

Load

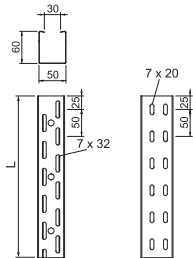




RKS 60 = Rational cable tray system with 60 mm side height (unbeaded base plate).
Cable tray with continuous bottom and side perforation as well as central holes (Ø11 mm) in the base for additional fastenings.

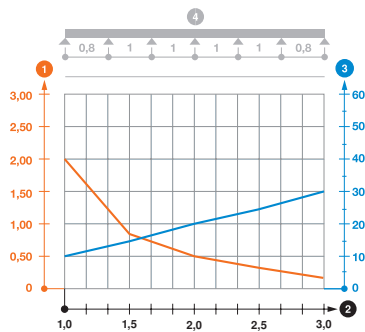
Type	Side height mm	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
RKS 605 FT	60	50	0.75	3	108.000	6047602

Dimensions



Type	Dim. L mm	Usable cross-section cm ²
RKS 605 FT	3000	30

Load



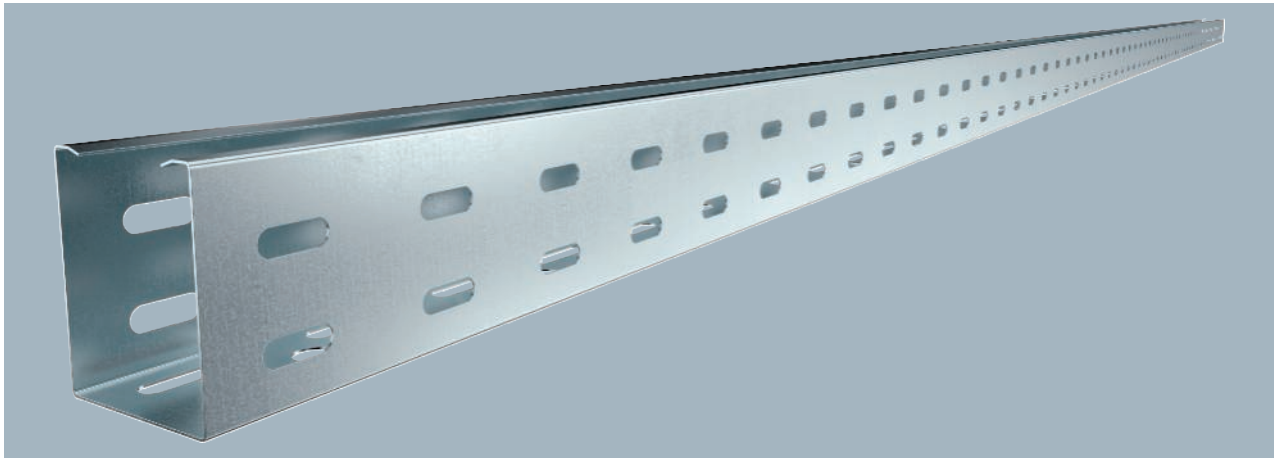
RKS 605 FT	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
2	0.8	0.5	0.35	0.15	

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 RKS 60

St FS



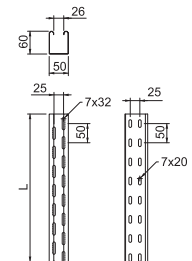
Type	Side height mm	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
RKS 607 FS	60	75	0.75	3	118.940	6055893

RKS 60 = Rational cable tray system with 60 mm side height (unbeaded base plate).

Including RV 60 longitudinal connector set. The cable tray is fixed to the bracket with bolts, type FRS M6 x 12.

Type	Dim. L mm	Usable cross- section cm ²
RKS 607 FS	3000	42

Dimensions

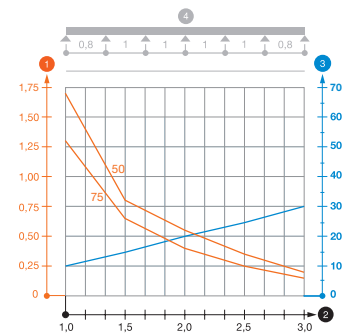


	1.0 m	1.5 m	2.0 m	2.5 m	3.0 m
RKS 607 FS	1.3	0.65	0.4	0.25	0.15

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

Load



A2 2B

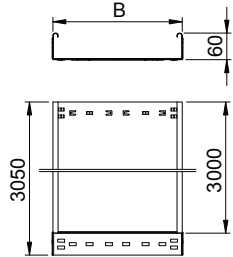
Cable tray MKS-Magic® 60, unperforated



Continuous equipotential bonding is guaranteed without additional components.
 Unperforated cable tray with integrated quick fastening system.
 The usable length of the cable tray is 3,000 mm.

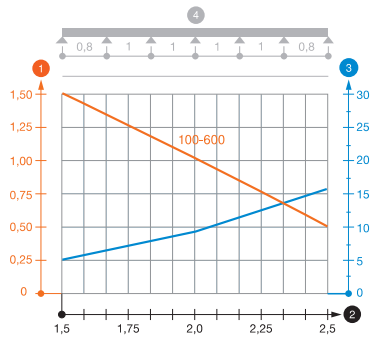
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKSMU 610 A2	100	1.00	3	194.867	6059265

Dimensions



Type	Length mm	Usable Dim. B mm	cross-section cm ²
MKSMU 610 A2	3050	100	58

Load

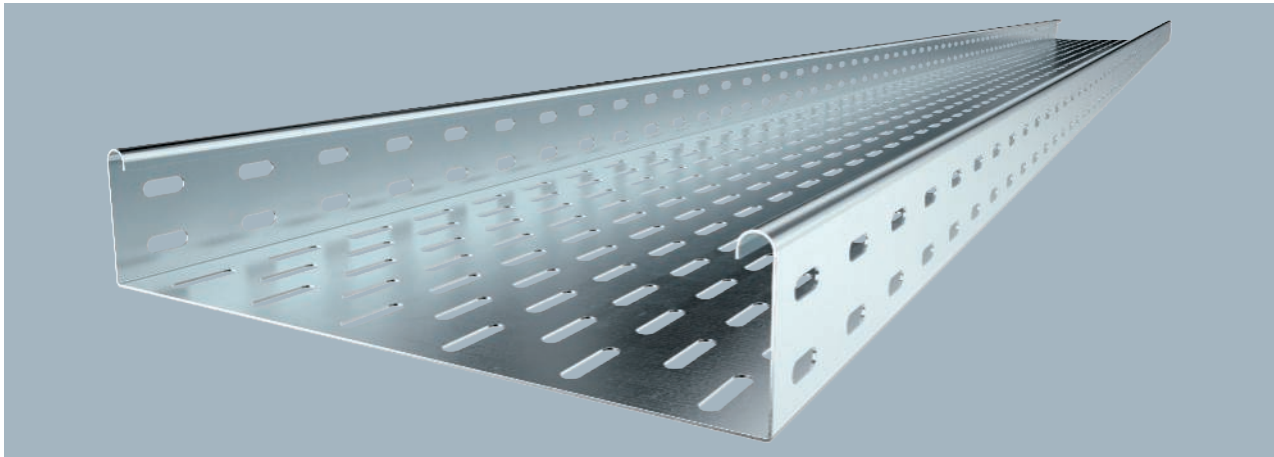


Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSMU 610 A2	1.5	1	0.5

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 MKS 60



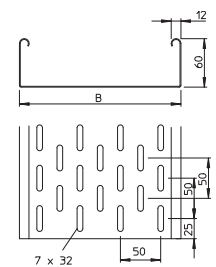
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKS 610 FS	100	1.00	3	173.000	6055109
MKS 615 FS	150	1.00	3	214.000	6055141
MKS 620 FS	200	1.00	3	246.700	6055206
MKS 630 FS	300	1.00	3	312.667	6055303
MKS 640 FS	400	1.00	3	380.000	6055400
MKS 650 FS	500	1.00	3	447.334	6055508
MKS 660 FS	600	1.00	3	513.334	6055524

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.

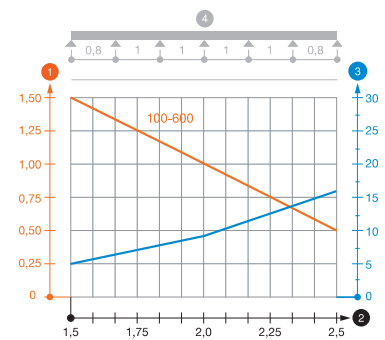
Type	Length mm	Dim. B mm	Usable cross-section cm ²
MKS 610 FS	3000	100	58
MKS 615 FS	3000	150	88
MKS 620 FS	3000	200	118
MKS 630 FS	3000	300	178
MKS 640 FS	3000	400	238
MKS 650 FS	3000	500	298
MKS 660 FS	3000	600	358

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
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



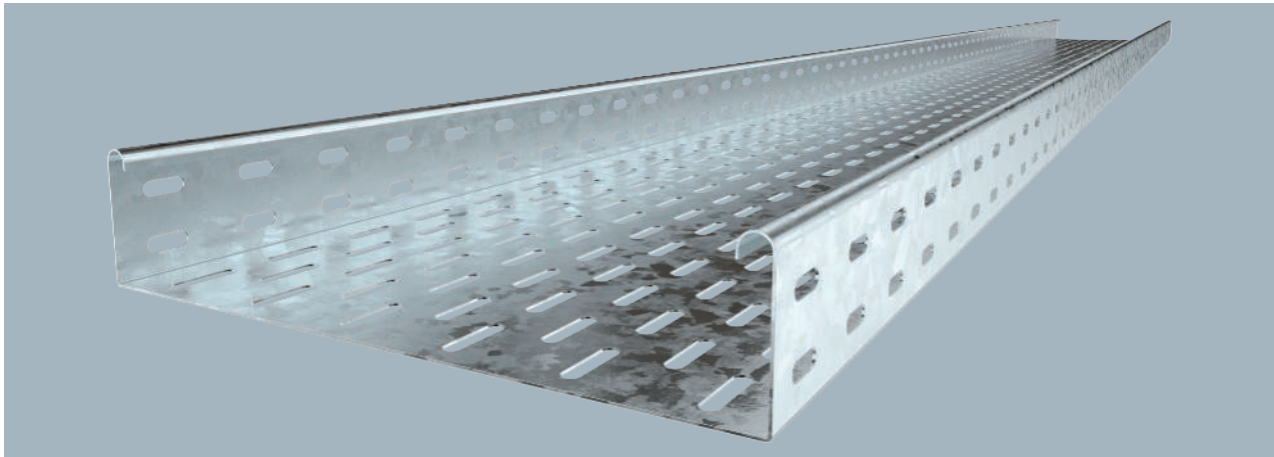
Load diagram, cable tray, type MKS 60

- 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

St FT



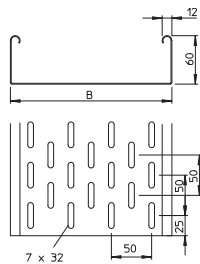
Cable tray MKS 60



MKS 60 = Medium-duty cable tray system with a side height of 60 mm.

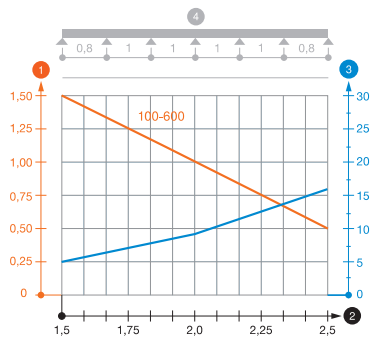
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKS 610 FT	100	1.00	3	190.100	6055532
MKS 615 FT	150	1.00	3	225.667	6055559
MKS 620 FT	200	1.00	3	263.234	6055575
MKS 630 FT	300	1.00	3	332.334	6055613
MKS 640 FT	400	1.00	3	403.334	6055664
MKS 650 FT	500	1.00	3	474.667	6055699
MKS 660 FT	600	1.00	3	545.670	6055710

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm ²
MKS 610 FT	3000	100	58
MKS 615 FT	3000	150	88
MKS 620 FT	3000	200	118
MKS 630 FT	3000	300	178
MKS 640 FT	3000	400	238
MKS 650 FT	3000	500	298
MKS 660 FT	3000	600	358

Load



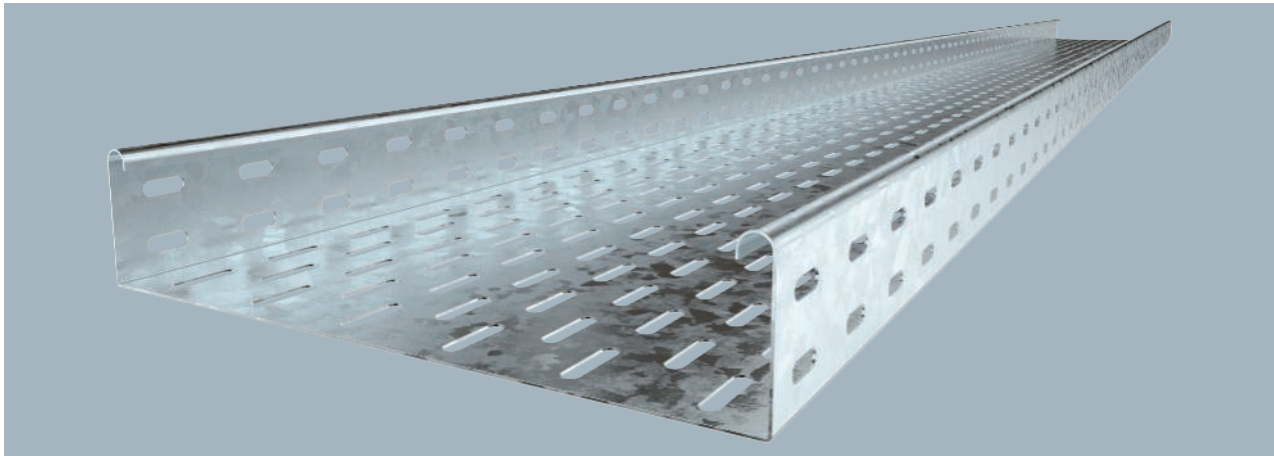
Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKS 610 FT	1.5	1	0.5
MKS 615 FT	1.5	1	0.5
MKS 620 FT	1.5	1	0.5
MKS 630 FT	1.5	1	0.5
MKS 640 FT	1.5	1	0.5
MKS 650 FT	1.5	1	0.5
MKS 660 FT	1.5	1	0.5

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

Cable tray MKS 60 FT SOMY

St FT SO

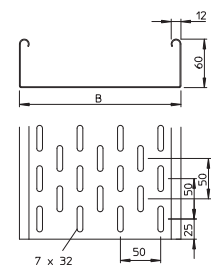


Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
MKS 610 FT SO	100	1.00	3	201.000	7190099
MKS 615 FT SO	150	1.00	3	239.000	7190101
MKS 620 FT SO	200	1.00	3	261.000	7190103
MKS 630 FT SO	300	1.00	6	351.667	7190107
MKS 640 FT SO	400	1.00	6	426.667	7190109
MKS 660 FT SO	600	1.00	6	577.340	7190111

MKS 60 = Medium-duty cable tray system with a side height of 60 mm.

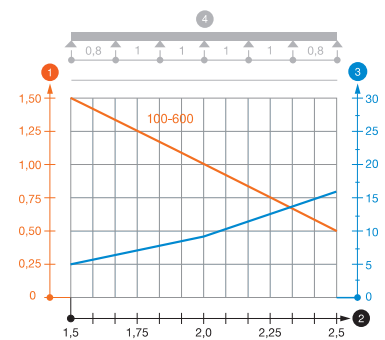
Type	Length mm	Usable Dim. B mm	cross- section cm ²
MKS 610 FT SO	3000	100	58
MKS 615 FT SO	3000	150	88
MKS 620 FT SO	3000	200	118
MKS 630 FT SO	3000	300	178
MKS 640 FT SO	3000	400	238
MKS 660 FT SO	3000	500	298

Dimensions



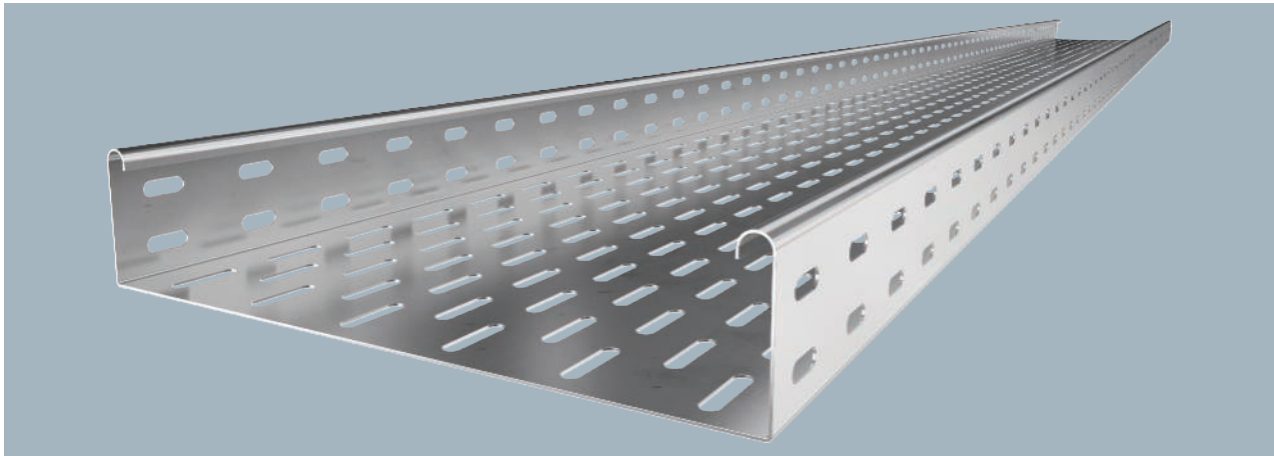
	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKS 610 FT SO	1.5	1	0.5
MKS 615 FT SO	1.5	1	0.5
MKS 620 FT SO	1.5	1	0.5
MKS 630 FT SO	1.5	1	0.5
MKS 640 FT SO	1.5	1	0.5
MKS 660 FT SO	1.5	1	0.5

Load



Load diagram, cable tray, type MKS 60

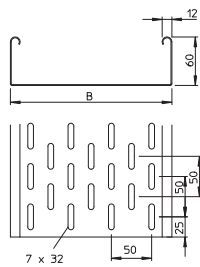
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



Connecting parts should be ordered in the appropriate quantity.
MKS 60 = Medium-duty cable tray system with a side height of 60 mm.

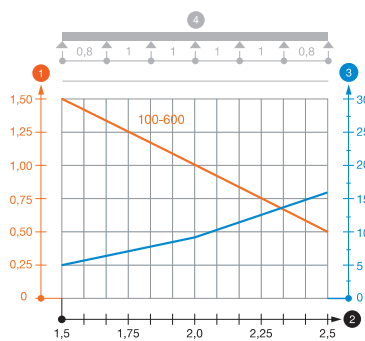
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKS 610 A2	100	1.00	3	174.200	6056016
MKS 620 A2	200	1.00	3	239.400	6056024
MKS 630 A2	300	1.00	3	304.667	6056040
MKS 640 A2	400	1.00	3	370.000	6056059

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm ²
MKS 610 A2	3000	100	58
MKS 620 A2	3000	200	118
MKS 630 A2	3000	300	178
MKS 640 A2	3000	400	238

Load



Type	1.5 m kN/m	2.0 m kN/m	2.5 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

Load diagram, cable tray MKS 60 VA

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

Cable tray MKSU 60

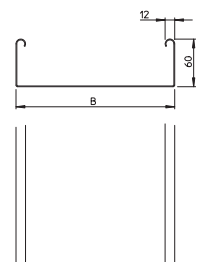


Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKSU 610 FS	100	1.00	3	189.000	6063160
MKSU 615 FS	150	1.00	3	229.300	6063179
MKSU 620 FS	200	1.00	3	266.700	6063187
MKSU 630 FS	300	1.00	3	347.000	6063209
MKSU 640 FS	400	1.00	3	426.000	6063225

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.

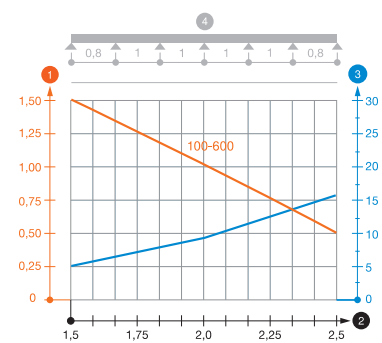
Type	Length mm	Dim. B mm	Usable cross-section cm ²
MKSU 610 FS	3000	100	58
MKSU 615 FS	3000	150	88
MKSU 620 FS	3000	200	118
MKSU 630 FS	3000	300	178
MKSU 640 FS	3000	400	238

Dimensions



	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



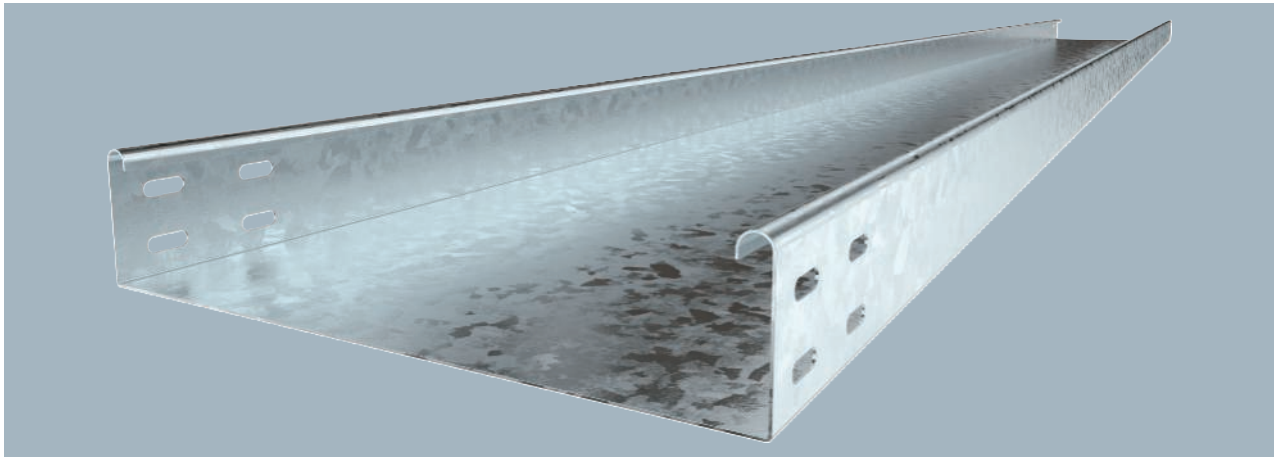
Load diagram, cable tray, type MKSU 60

- 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

St FT



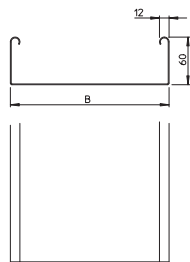
Cable tray MKSU 60



The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.
 MKSU 60 = Medium duty cable tray system, unperforated, with a side height of 60 mm.

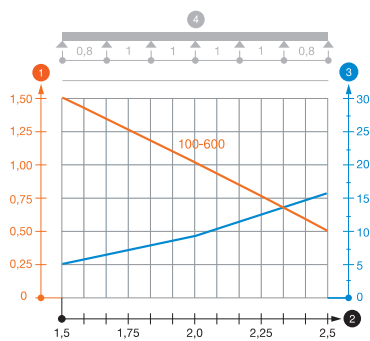
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKSU 610 FT	100	1.00	3	209.000	6064302
MKSU 615 FT	150	1.00	3	250.000	6064319
MKSU 620 FT	200	1.00	3	290.000	6064345
MKSU 630 FT	300	1.00	3	378.000	6064396
MKSU 640 FT	400	1.00	3	464.000	6064426

Dimensions



Type	Length mm	Width mm	Usable cross-section cm ²
MKSU 610 FT	3000	100	58
MKSU 615 FT	3000	150	88
MKSU 620 FT	3000	200	118
MKSU 630 FT	3000	300	178
MKSU 640 FT	3000	400	238

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSU 610 FT	1.5	1	0.5
MKSU 615 FT	1.5	1	0.5
MKSU 620 FT	1.5	1	0.5
MKSU 630 FT	1.5	1	0.5
MKSU 640 FT	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 SKS 60

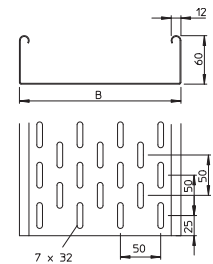


Type	Width mm	Metal thick- ness		Pack m	Weight kg/100 m	Item no.
		mm	BS			
SKS 610 FS	100	1.50		3	239.400	6056105
SKS 615 FS	150	1.50		3	316.670	6056156
SKS 620 FS	200	1.50		3	364.000	6056202
SKS 630 FS	300	1.50		3	463.670	6056296
SKS 640 FS	400	1.50		3	564.340	6056407
SKS 650 FS	500	1.50		3	663.340	6056504
SKS 660 FS	600	1.50		3	762.340	6056601

The cable tray, type SKS, should also be used for the maintenance of electrical function. For additional data, please refer to BSS fire protection systems.
SKS 60 = heavy-duty cable tray system with 60 mm side height.

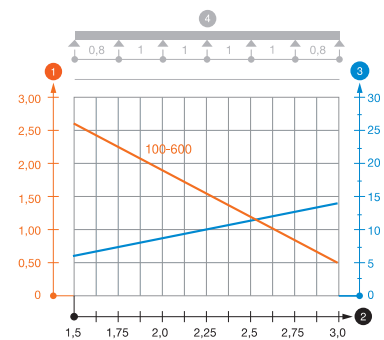
Type	Length mm	Dim. B mm	Usable cross- section cm ²
SKS 615 FS	3000	150	88
SKS 620 FS	3000	200	118
SKS 630 FS	3000	300	178
SKS 640 FS	3000	400	238
SKS 650 FS	3000	500	298
SKS 660 FS	3000	600	358

Dimensions



	1.5 m	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/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



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

St FT



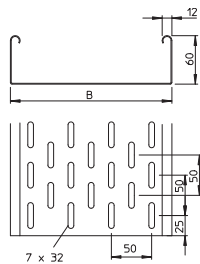
Cable tray SKS 60



The cable tray, type SKS, should also be used for the maintenance of electrical function. For additional data, please refer to BSS fire protection systems.
SKS 60 = Heavy-duty cable tray system with 60 mm side height.

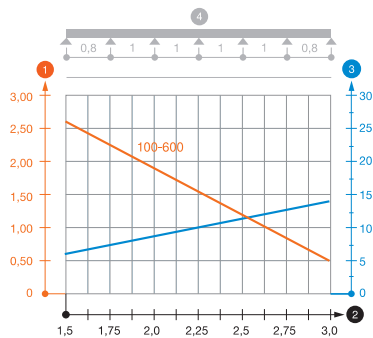
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
SKS 610 FT	100	1.50	3	277.000	6056636
SKS 615 FT	150	1.50	3	328.700	6056644
SKS 620 FT	200	1.50	3	380.000	6056652
SKS 630 FT	300	1.50	3	485.670	6056679
SKS 640 FT	400	1.50	3	590.340	6056695
SKS 650 FT	500	1.50	3	694.670	6056717
SKS 660 FT	600	1.50	3	799.000	6056733

Dimensions



Type	Length mm	Usable Dim. B mm	cross-section cm ²
SKS 610 FT	3000	100	58
SKS 615 FT	3000	150	88
SKS 620 FT	3000	200	118
SKS 630 FT	3000	300	178
SKS 640 FT	3000	400	238
SKS 650 FT	3000	500	298
SKS 660 FT	3000	600	358

Load

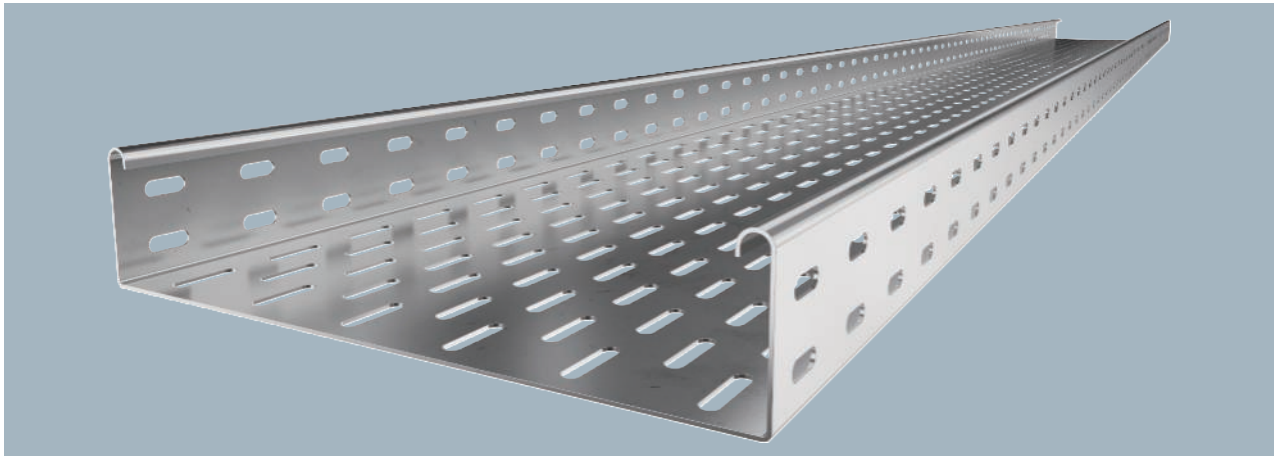


	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKS 610 FT	2.65	1.8	1.15	0.5
SKS 615 FT	2.65	1.8	1.15	0.5
SKS 620 FT	2.65	1.8	1.15	0.5
SKS 630 FT	2.65	1.8	1.15	0.5
SKS 640 FT	2.65	1.8	1.15	0.5
SKS 650 FT	2.65	1.8	1.15	0.5
SKS 660 FT	2.65	1.8	1.15	0.5

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 SKS 60



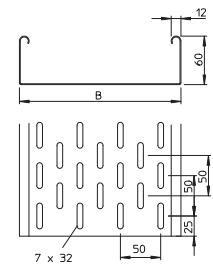
Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
SKS 610 A4	100	1.50	3	260.000	6056750
SKS 620 A4	200	1.50	3	356.667	6056755
SKS 630 A4	300	1.50	3	455.333	6056757
SKS 640 A4	400	1.50	3	553.667	6056759
SKS 650 A4	500	1.50	3	651.333	6056761
SKS 660 A4	600	1.50	3	749.333	6056763

The cable tray, type SKS, should also be used for maintenance of electrical function. For additional data, please refer to BSS fire protection systems. The cable tray is fastened to the bracket with bolts, type FRS M6 x 12.

SKS 60 = Heavy-duty cable tray system with 60 mm side height.

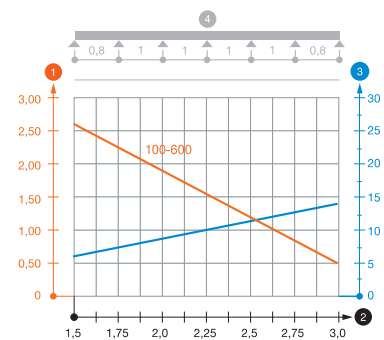
Type	Length mm	Dim. B mm	Usable cross- section cm ²
SKS 610 A4	3000	100	58
SKS 620 A4	3000	200	118
SKS 630 A4	3000	300	178
SKS 640 A4	3000	400	238
SKS 650 A4	3000	500	298
SKS 660 A4	3000	600	358

Dimensions



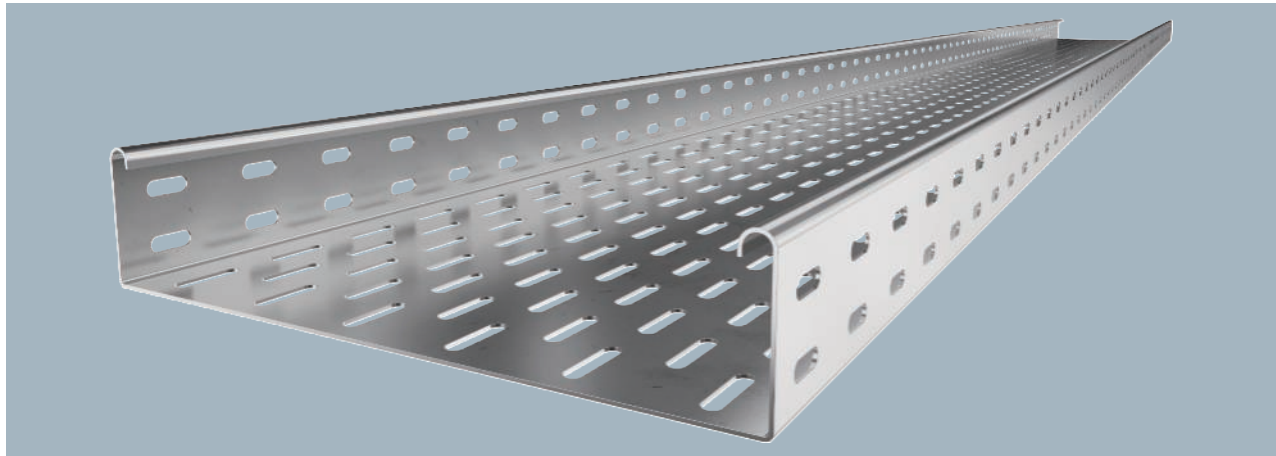
	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKS 610 A4	2.65	1.8	1.15	0.5
SKS 620 A4	2.65	1.8	1.15	0.5
SKS 630 A4	2.65	1.8	1.15	0.5
SKS 640 A4	2.65	1.8	1.15	0.5
SKS 650 A4	2.65	1.8	1.15	0.5
SKS 660 A4	2.65	1.8	1.15	0.5

Load



Load diagram, cable tray SKS 60 VA

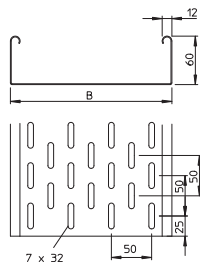
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



Connecting parts should be ordered in the appropriate quantity.
SKS 60 = heavy-duty cable tray system with 60 mm side height.

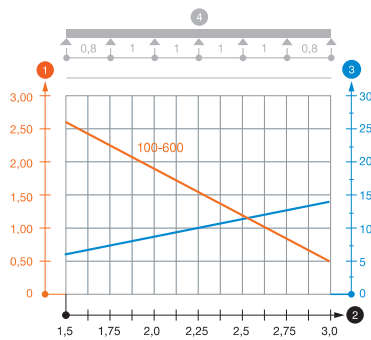
Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
SKS 610 A2	100	1.50	3	260.000	6056735
SKS 620 A2	200	1.50	3	356.667	6056737
SKS 630 A2	300	1.50	3	455.333	6056739
SKS 640 A2	400	1.50	3	553.667	6056742
SKS 650 A2	500	1.50	3	651.333	6056744
SKS 660 A2	600	1.50	3	749.333	6056746

Dimensions



Type	Length mm	Dim. B mm	Usable 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

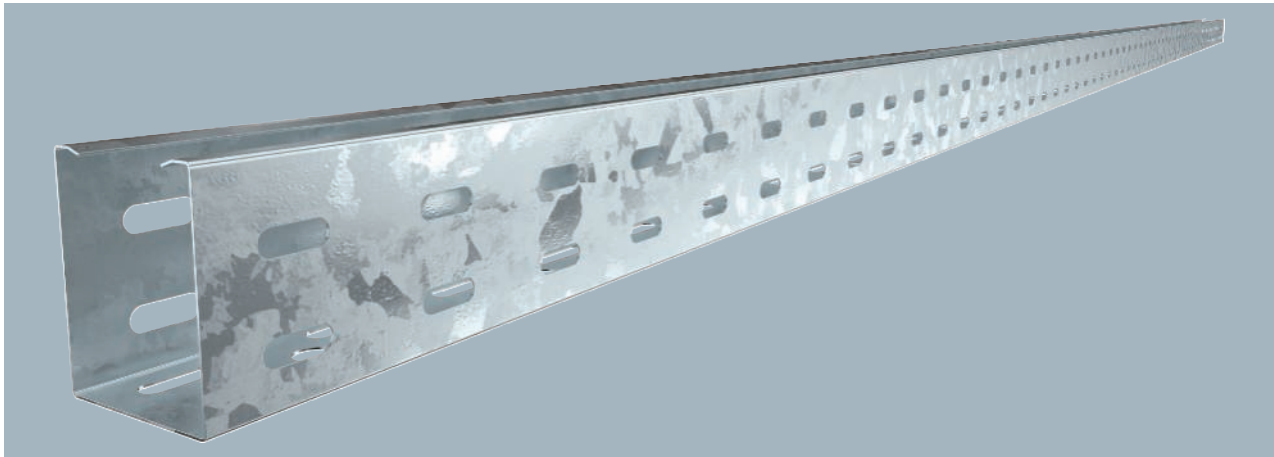


	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKS 610 A2	2.65	1.8	1.15	0.5
SKS 620 A2	2.65	1.8	1.15	0.5
SKS 630 A2	2.65	1.8	1.15	0.5
SKS 640 A2	2.65	1.8	1.15	0.5
SKS 650 A2	2.65	1.8	1.15	0.5
SKS 660 A2	2.65	1.8	1.15	0.5

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

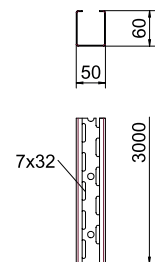
Cable tray SKS 605



Type	Side height mm	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
SKS 605 FT	60	50	1.50	3	203.900	6056634

SKS 60 = Heavy-duty cable tray system with 60 mm side height. Cable tray with continuous bottom and side perforation as well as central holes (Ø11 mm) in the base for additional fastenings. Matching cover with turn buckle: Type AZDMD 50. Additional fastening material not included.

Dimensions

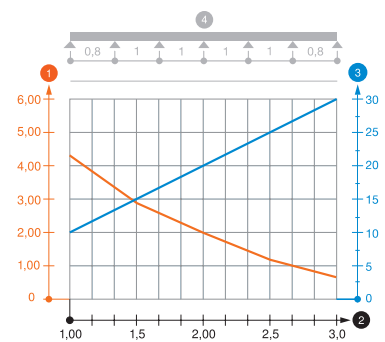


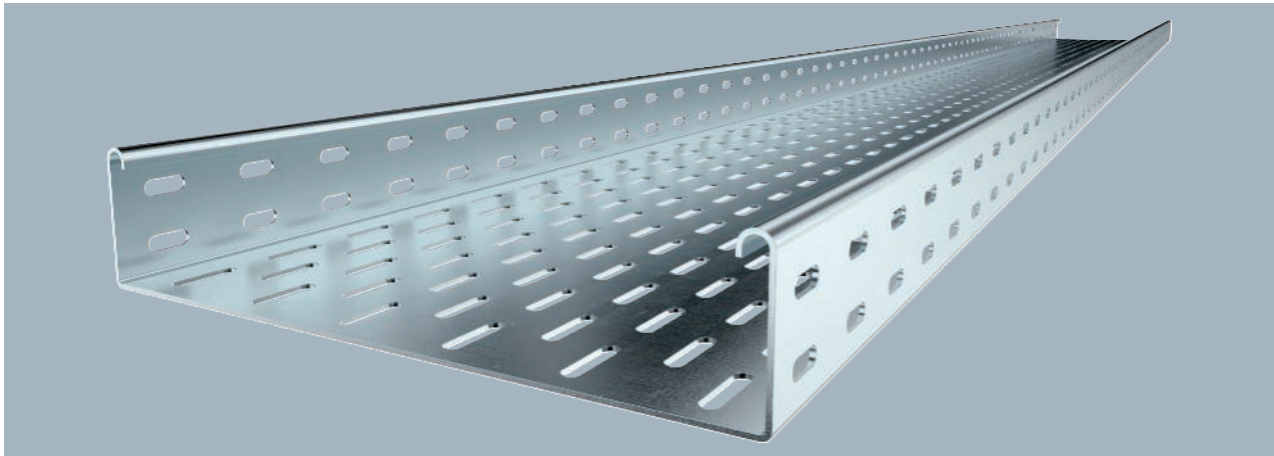
	1.0 m	1.5 m	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
SKS 605 FT	4.3	2.8	2	1.1	0.7

Load diagram, cable tray, type SKS 605

- 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



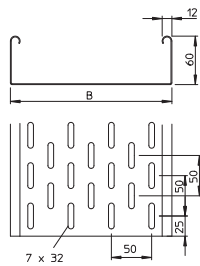


Straight connectors should be ordered separately for all the versions.

EKS 60 = extra-heavy cable tray system with 60 mm side height.

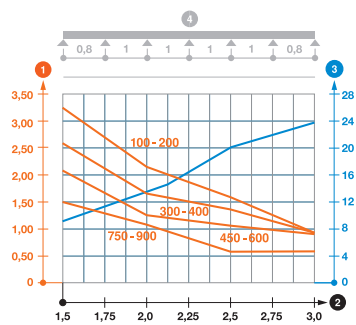
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
EKS 610 FS	100	2,00	3	341.340	6056148
EKS 620 FS	200	2,00	3	471.670	6056229
EKS 630 FS	300	2,00	3	602.000	6056326
EKS 640 FS	400	2,00	3	732.670	6056423
EKS 650 FS	500	2,00	3	863.000	6056520
EKS 660 FS	600	2,00	3	993.340	6056628

Dimensions



Type	Length mm	Dim. B mm	Usable 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 650 FS	3000	500	298
EKS 660 FS	3000	600	358

Load



	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

Cable tray EKS 60



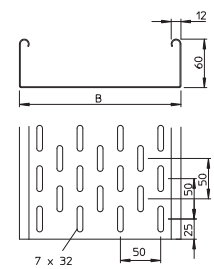
Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
EKS 610 FT	100	2.00	3	358.340	6056776
EKS 620 FT	200	2.00	3	493.000	6056792
EKS 630 FT	300	2.00	3	629.340	6056806
EKS 640 FT	400	2.00	3	765.670	6056970
EKS 650 FT	500	2.00	3	902.000	6056989
EKS 660 FT	600	2.00	3	1,038.340	6056997

Straight connectors should be ordered separately for all the versions.

EKS 60 = Extra-heavy cable tray system with 60 mm side height.

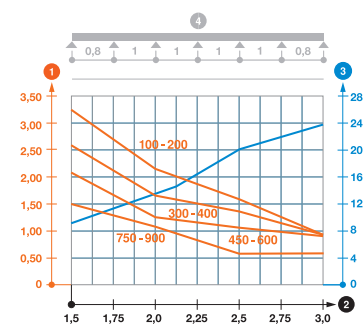
Type	Length mm	Dim. B mm	Usable cross- section cm ²
EKS 610 FT	3000	100	58
EKS 620 FT	3000	200	118
EKS 630 FT	3000	300	178
EKS 640 FT	3000	400	238
EKS 650 FT	3000	500	298
EKS 660 FT	3000	600	358

Dimensions



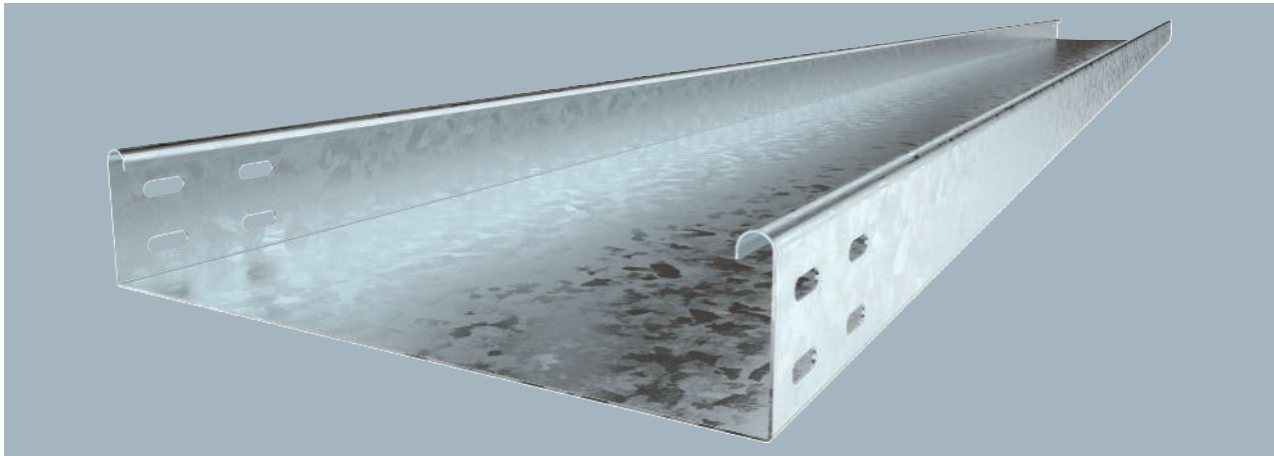
	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
EKS 610 FT	3.3	2.2	1.6	0.95
EKS 620 FT	3.3	2.2	1.6	0.95
EKS 630 FT	2.6	1.7	1.4	0.95
EKS 640 FT	2.6	1.7	1.4	0.95
EKS 650 FT	2.1	1.35	1.15	0.9
EKS 660 FT	2.1	1.35	1.15	0.9

Load



Load diagram, cable tray, type EKS 60

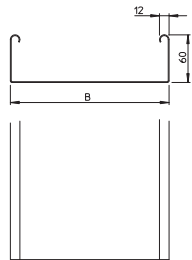
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



Straight connectors should be ordered separately for all the versions.
EKS 60 = extra-heavy cable tray system with 60 mm side height.

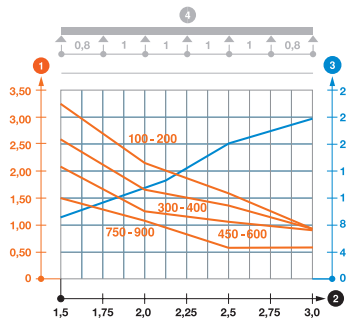
Type	Width mm	Metal thickness mm	Weight kg/100 m	Item no.
EKSU 620 FT SO	200	2,00	575.000	7189980

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm ²
EKSU 620 FT SO	3000	200	118

Load



	1.5 m	2.0 m	2.5 m	3.0 m
EKSU 620 FT SO	3.3	2.2	1.6	0.95

Load diagram, cable tray, type EKSU 60

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

Cable tray SKSU 60

St FS

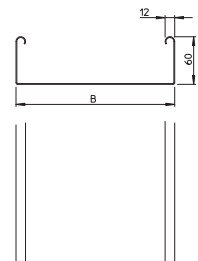


Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
SKSU 610 FS	100	1.50	3	286.000	6063234
SKSU 620 FS	200	1.50	3	399.670	6063236
SKSU 630 FS	300	1.50	3	516.000	6063238
SKSU 640 FS	400	1.50	3	639.000	6063950
SKSU 650 FS	500	1.50	3	756.670	6063241
SKSU 660 FS	600	1.50	3	877.000	6063276

The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity. SKS 60 = heavy-duty cable tray system, unperforated, with 60 mm side height.

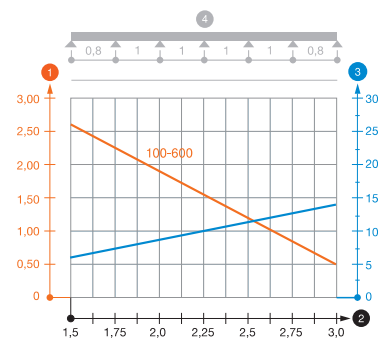
Type	Length mm	Dim. B mm	Usable cross- section cm ²
SKSU 610 FS	3000	100	58
SKSU 620 FS	3000	200	118
SKSU 630 FS	3000	300	178
SKSU 640 FS	3000	400	238
SKSU 650 FS	3000	500	298
SKSU 660 FS	3000	600	358

Dimensions



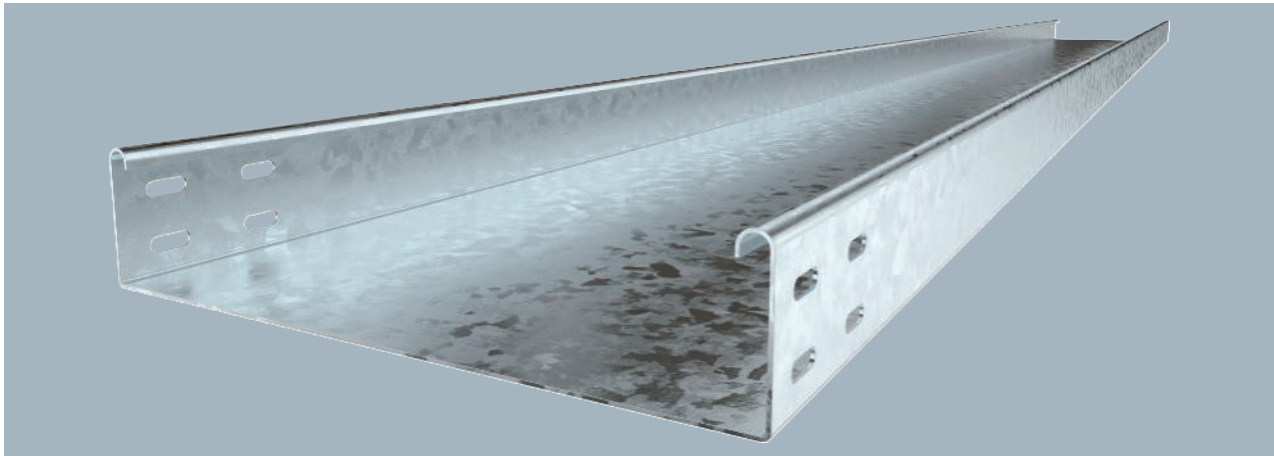
	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKSU 610 FS	2.6	1.9	1.1	0.55
SKSU 620 FS	2.6	1.9	1.1	0.55
SKSU 630 FS	2.6	1.9	1.1	0.55
SKSU 640 FS	2.6	1.9	1.1	0.55
SKSU 650 FS	2.6	1.9	1.1	0.55
SKSU 660 FS	2.6	1.9	1.1	0.55

Load



Load diagram, cable tray, type SKSU 60

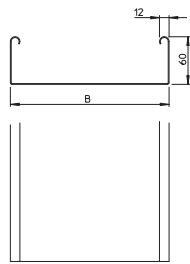
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity. SKS 60 = heavy-duty cable tray system, unperforated, with 60 mm side height.

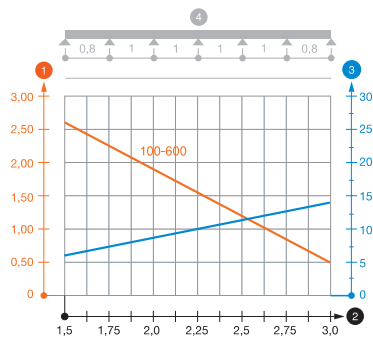
Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
SKSU 610 FT	100	1.50	3	302.670	6064307
SKSU 620 FT	200	1.50	3	427.340	6064353
SKSU 630 FT	300	1.50	3	554.670	6064409
SKSU 640 FT	400	1.50	3	687.000	6064435
SKSU 650 FT	500	1.50	3	802.000	6064515
SKSU 660 FT	600	1.50	3	929.670	6064523

Dimensions



Type	Length mm	Dim. B mm	Usable cross- section cm ²
SKSU 610 FT	3000	100	58
SKSU 620 FT	3000	200	118
SKSU 630 FT	3000	300	178
SKSU 640 FT	3000	400	238
SKSU 650 FT	3000	500	298
SKSU 660 FT	3000	600	358

Load



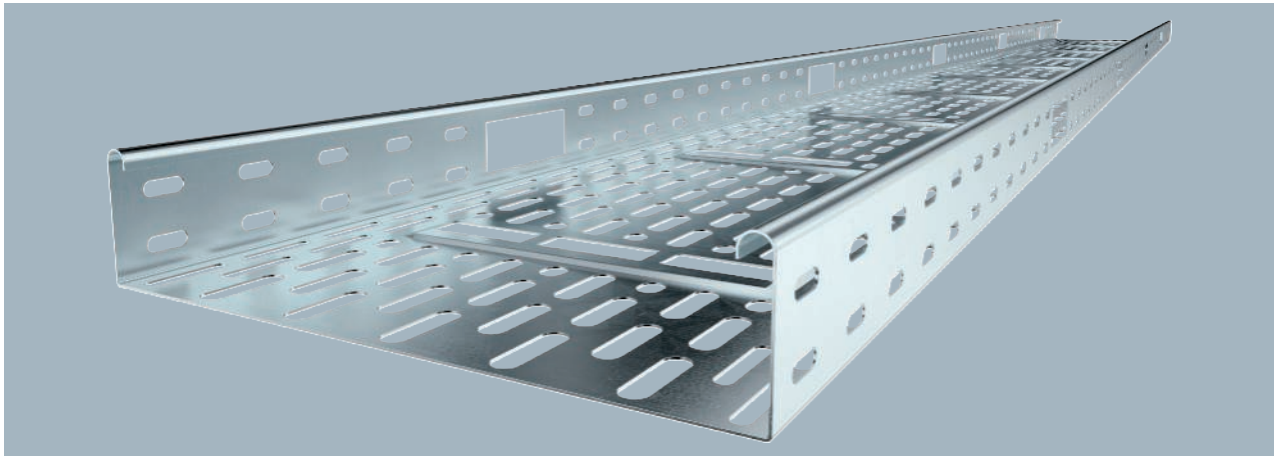
	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKSU 610 FT	2.6	1.9	1.1	0.55
SKSU 620 FT	2.6	1.9	1.1	0.55
SKSU 630 FT	2.6	1.9	1.1	0.55
SKSU 640 FT	2.6	1.9	1.1	0.55
SKSU 650 FT	2.6	1.9	1.1	0.55
SKSU 660 FT	2.6	1.9	1.1	0.55

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 IKS 60

St FS

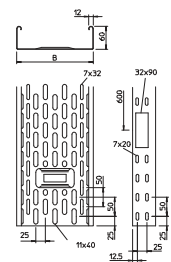


Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
IKS 610 FS	100	1.00	3	155.340	6087116
IKS 620 FS	200	1.00	3	212.000	6087132
IKS 630 FS	300	1.00	3	260.721	6087140
IKS 640 FS	400	1.50	3	485.140	6087159

Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems. Bottom penetration from width 200 mm. Offset side holes every 300 mm. Connecting parts should be ordered in the appropriate quantity. IKS 60 = installation cable tray system with 60 mm side height.

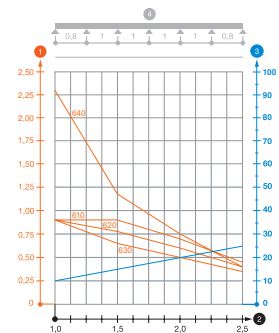
Type	Length mm	Usable Dim. B mm	cross- section cm ²
IKS 610 FS	3000	100	58
IKS 620 FS	3000	200	118
IKS 630 FS	3000	300	178
IKS 640 FS	3000	400	238

Dimensions



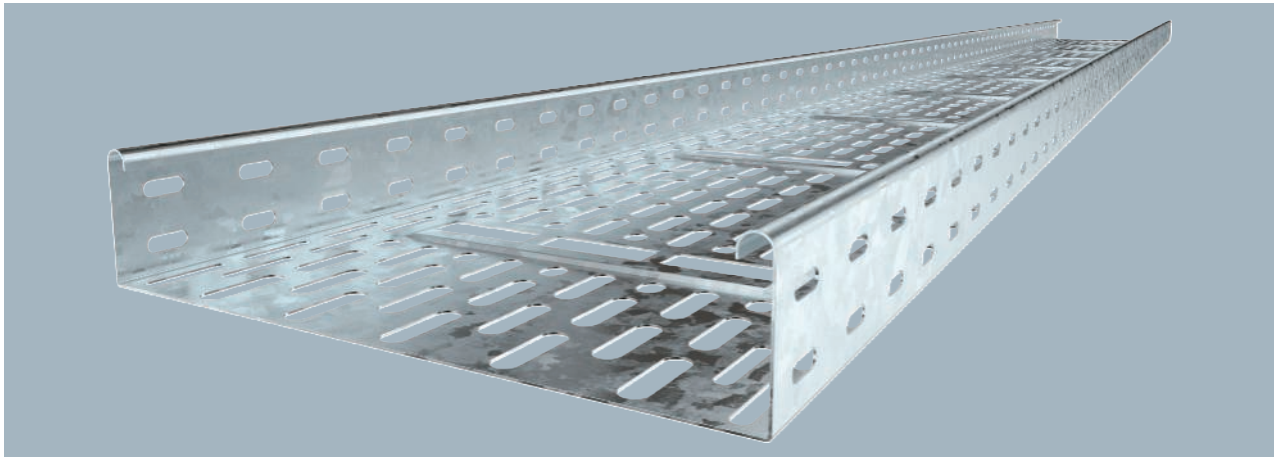
	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
IKS 610 FS	0.9	0.9	0.7	0.45
IKS 620 FS	0.9	0.77	0.6	0.4
IKS 630 FS	0.9	0.65	0.5	0.35
IKS 640 FS	2.3	1.17	0.75	0.4

Load



Load diagram, cable tray, type IKS 60

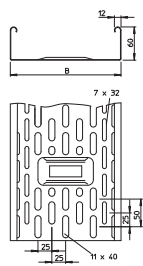
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



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.

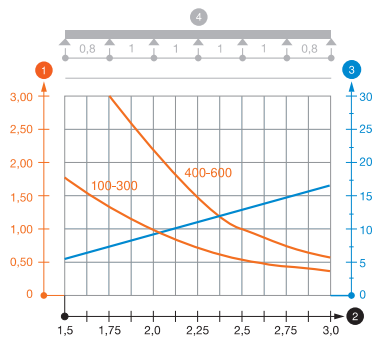
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
DKS 610 FT	100	1.00	3	175.667	6085326
DKS 620 FT	200	1.00	3	237.334	6085342
DKS 630 FT	300	1.00	3	295.000	6085369
DKS 640 FT	400	1.50	3	523.000	6085512
DKS 650 FT	500	1.50	3	607.000	6085539
DKS 660 FT	600	1.50	3	690.667	6085555

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm ²
DKS 610 FT	3000	100	58
DKS 620 FT	3000	200	118
DKS 630 FT	3000	300	178
DKS 640 FT	3000	400	238
DKS 650 FT	3000	500	298
DKS 660 FT	3000	600	358

Load

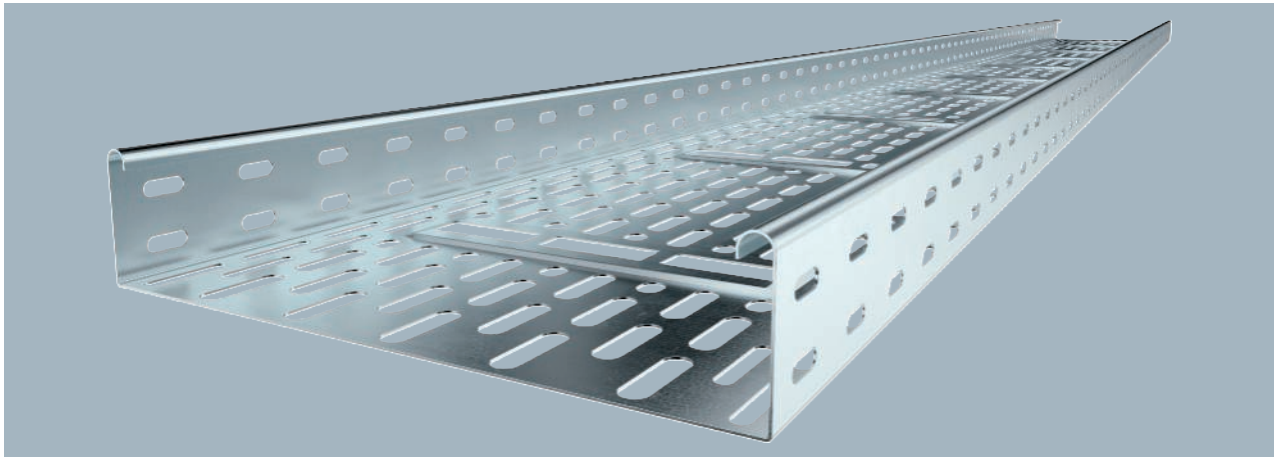


	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
DKS 610 FT	1.75	0.95	0.5	0.4
DKS 620 FT	1.75	0.95	0.5	0.4
DKS 630 FT	1.75	0.95	0.5	0.4
DKS 640 FT	3	2.25	1	0.65
DKS 650 FT	3	2.25	1	0.65
DKS 660 FT	3	2.25	1	0.65

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

Cable tray DKS 60

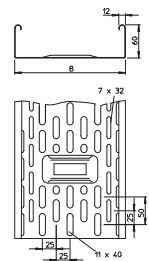


Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
DKS 610 FS	100	1.00	3	161.000	6085016
DKS 620 FS	200	1.00	3	217.677	6085032
DKS 630 FS	300	1.00	3	270.667	6085059
DKS 660 FS	600	1.50	3	651.334	6085245

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	Dim. B mm	Usable cross-section cm ²
DKS 610 FS	3000	100	58
DKS 620 FS	3000	200	118
DKS 630 FS	3000	300	178
DKS 660 FS	3000	600	358

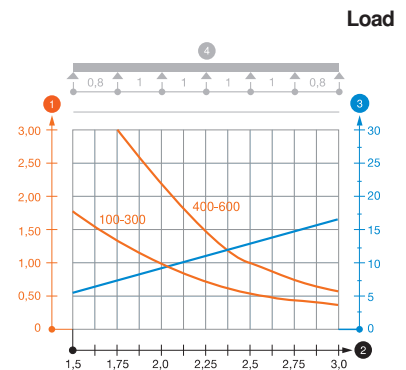
Dimensions



	1.5 m	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/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 660 FS	3	2.25	1	0.65

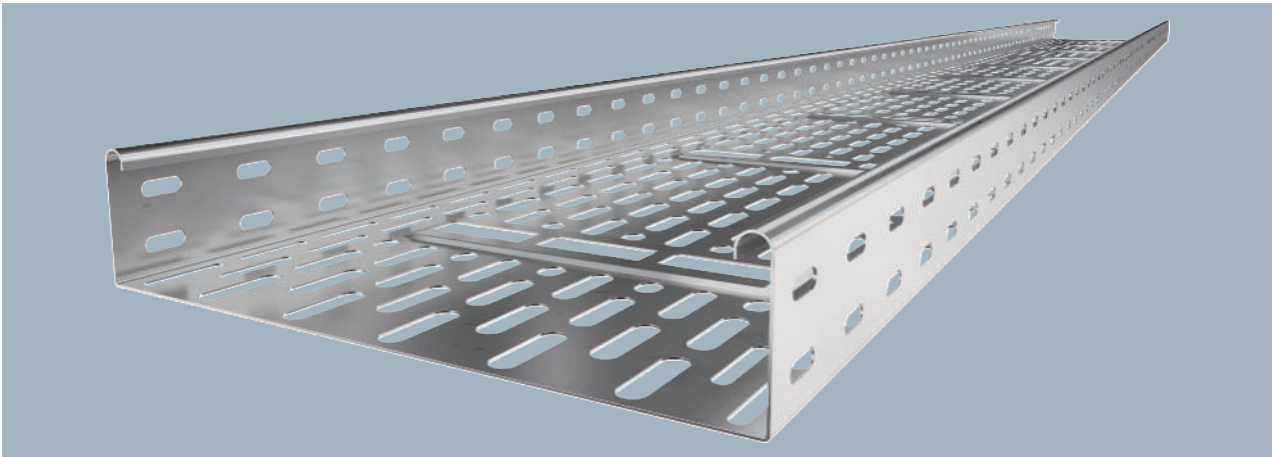
Load diagram, cable tray, type DKS 60

- 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



A4 2B

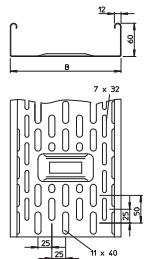
Cable tray DKS 60



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.

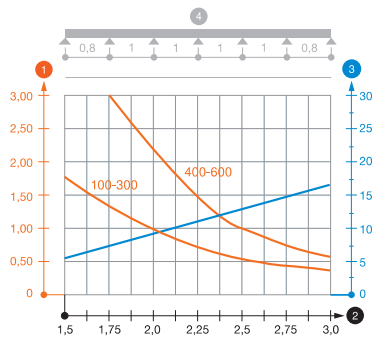
Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
DKS 640 A4	400	1.00	3	329.334	6085675

Dimensions



Type	Length mm	Dim. B mm	Usable cross- section cm ²
DKS 640 A4	3000	400	238

Load

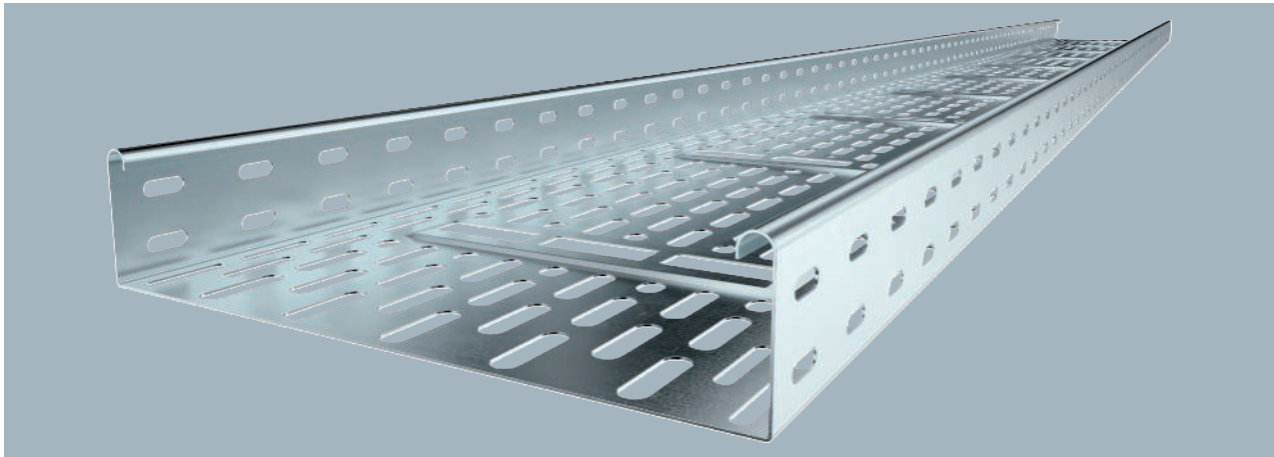


DKS 640 A4	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
DKS 640 A4	1.1	0.75	0.45

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

Cable tray DKS 60

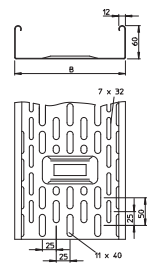


Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
DKS 640 FS	400	1.50	3	493.334	6085202
DKS 650 FS	500	1.50	3	572.340	6085229

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.

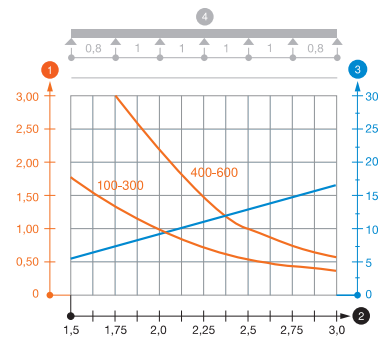
Type	Length mm	Dim. B mm	Usable cross- section cm ²
DKS 640 FS	3000	400	238
DKS 650 FS	3000	500	298

Dimensions



	1.5 m	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/m	kN/m
DKS 640 FS	3	2.25	1	0.65
DKS 650 FS	3	2.25	1	0.65

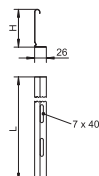
Load



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

Separating retainer 45



Type	Dim. H mm	Metal thick- ness mm	Dim. 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	46.812	6062321

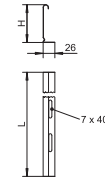
Separating retainer for separation of cables of different voltages or functions.

A2 A4 2B

Type	Metal			Pack m	Weight kg/100 m	Item no.
	Dim. H mm	thick- ness mm	Dim. L mm			
TSG 45 A2	45	0.75	3000	3	49.850	6062025
TSG 45 A4	45	0.75	3000	3	49.850	6062028

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

Separating retainer 45

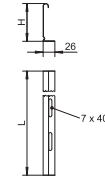


St FS DD

Type	Metal			Pack m	Weight kg/100 m	Item no.
	Dim. H mm	thick- ness mm	Dim. L mm			
TSG 60 FS	60	0.75	3000	3	55.700	6062068
TSG 60 DD	60	0.75	3000	3	55.700	6062327

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

Separating retainer 60

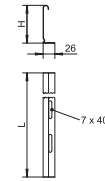


A2 A4 2B

Type	Metal			Pack m	Weight kg/100 m	Item no.
	Dim. H mm	thick- ness mm	Dim. L mm			
TSG 60 A2	60	0.75	3000	3	59.265	6062084
TSG 60 A4	60	0.75	3000	3	59.256	6062086

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

Separating retainer 60

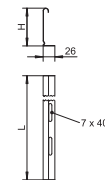


St FT SO

Type	Metal			Pack m	Weight kg/100 m	Item no.
	Dim. H mm	thick- ness mm	Dim. L mm			
TSG 60 FT SO	56	0.75	3000	3	66.200	7190495

The surface coating is a coating created in a single-dip method with extra-high zinc thicknesses.
Barrier strip for the separation of cables of different voltages or functions.

Barrier strip 60 FT SOMY

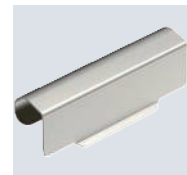
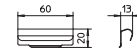


VA 2B

Type	Pack Piece	Weight kg/100 pc.	Item no.

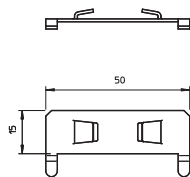
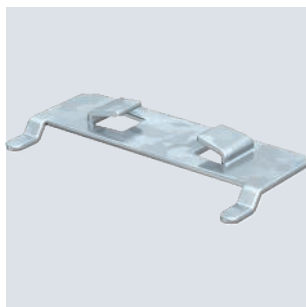
Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Separating retainer connector



Clamping piece for barrier strips fastening in RKS

St FS



Type

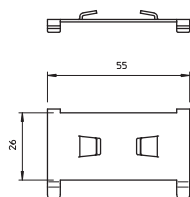
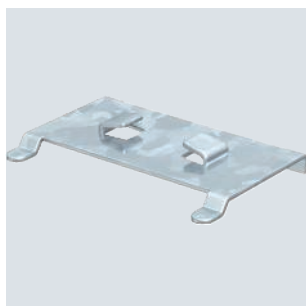
KS RKS FS

Pack Piece	Weight kg/100 pc.	Item no.
100	0.902	6062296

Clamping piece for screwless fastening of barrier strips.
Use in cable trays, type RKSM (from width 200 mm).

Clamping piece for barrier strips fastening in MKS/SKS

St FS



Type

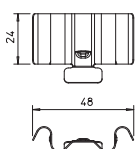
KS MKS SKS FS

Pack Piece	Weight kg/100 pc.	Item no.
100	1.200	6062300

Clamping piece for screwless fastening of barrier strips.
Use in cable trays, types MKS, SKS, EKS.

Spring element, side height 60 mm

VA



Type

FED 60 A2

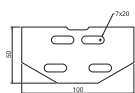
Dimension mm
48x24

Pack Piece	Weight kg/100 pc.	Item no.
50	0.761	6068859

Spring element as accessory part (spare) for the RKS-Magic® cable tray of side height 60 mm.

Straight connector 60, vertical

St FS



Type

RLVKV 60 FS

Side height mm
60

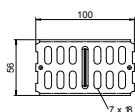
Pack Piece	Weight kg/100 pc.	Item no.
10	4.550	6067101

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.

The screw fastening ensures the continuity of the equipotential bonding.

Straight connector 60

St FS FT



Type

RLVK 60 FS

RLVK 60 FT

Side height mm
60

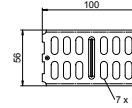
Pack Piece	Weight kg/100 pc.	Item no.
10	9.976	6067093
10	10.300	6067603

Straight connector for straight connection of cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.

A2 A4 2B

Straight connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVK 60 A2	60	10	9.780	6067654
RLVK 60 A4	60	10	9.780	6067675

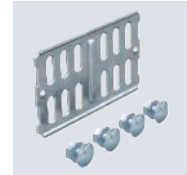
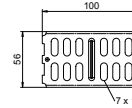


Straight connector for straight connection of cable trays and fittings with a side height of 60 mm. Including appropriate fastening material.

St FT SO

60 FT SOMY straight connector

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVK 60 FT SO	60	10	10.300	7190522

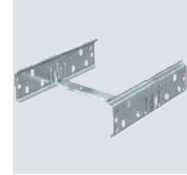
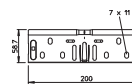


Straight connector for the straight connection of cable trays and fittings with a side height of 60 mm. Including appropriate fastening material.

St FS

Straight connector set 60

Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
RV 605 FS	60	50	10	18.100	6068146
RV 607 FS	60	75	10	18.800	6068150
RV 610 FS	60	100	10	19.400	6068154
RV 615 FS	60	150	10	20.700	6068162
RV 620 FS	60	200	10	20.900	6068170
RV 630 FS	60	300	10	24.500	6068189
RV 640 FS	60	400	10	32.200	6068197
RV 650 FS	60	500	10	36.200	6068200
RV 660 FS	60	600	10	39.200	6068219

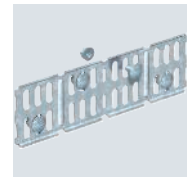
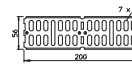


Quick connector set for straight, screwless connections of cable trays and fittings with a side height of 60 mm. The continuous earthing connection is guaranteed without a screw connection.

St FS FT

Straight and angle connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RWVL 60 FS	60	10	16.400	6067115
RWVL 60 FT	60	10	17.400	6067611

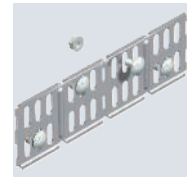
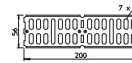


Straight and angle connector for cable trays and fittings with a side height of 60 mm. Including appropriate fastening material.

A2 A4 2B

Straight and angle connector 60

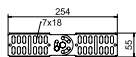
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RWVL 60 A2	60	10	16.200	6067662
RWVL 60 A4	60	10	16.200	6067664



Straight and angle connector for cable trays and fittings with a side height of 60 mm. Including appropriate fastening material.

Adjustable connector 60

St FS FT

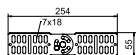


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 60 FS	60	10	25.100	7082010
RGV 60 FT	60	10	23.890	7082223

Adjustable connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.

Adjustable connector 60

A2 A4 2B

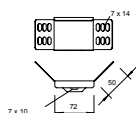


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 60 A2	60	10	25.100	7082258
RGV 60 A4	60	10	25.100	7082265

Adjustable connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.

Angle connector 60

St FS FT

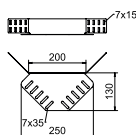
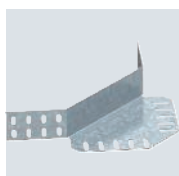


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WKV 60 FS	60	5	14.700	6043062
WKV 60 FT	60	5	15.800	6042910

Angle connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.

Corner connector 60

St FS DD

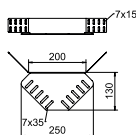


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 60 FS	60	10	32.000	6067972
REV 60 DD	60	1	32.000	6069410

Corner connector for cable trays with side height 60 mm.
Fastening materials should be ordered separately.

Corner connector 60

A2 A4 2B



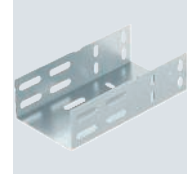
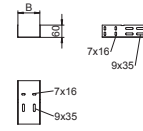
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 60 A2	60	5	32.000	6068022
REV 60 A4	60	5	32.000	6068054

Corner connector for cable trays with side height 60 mm.
Fastening materials should be ordered separately.

St DD

Connector for expansion compensation 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RDV 610 DD	60	10	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

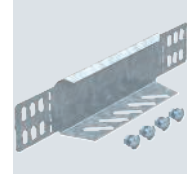
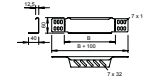


Straight connector for compensation of linear thermal expansion.

St FS DD

Reducer/stop-end 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 610 FS	60	100	1	12.300	7109105
RWEB 615 FS	60	150	1	17.600	7109156
RWEB 620 FS	60	200	1	22.800	7109202
RWEB 630 FS	60	300	1	30.700	7109296
RWEB 640 FS	60	400	1	39.600	7109407
RWEB 650 FS	60	500	1	47.500	7109504
RWEB 660 FS	60	600	1	55.500	7109601
RWEB 605 DD	60	50	1	9.337	7107145
RWEB 610 DD	60	100	1	12.300	7106106
RWEB 615 DD	60	150	1	17.900	7106110
RWEB 620 DD	60	200	1	22.600	7106114
RWEB 630 DD	60	300	1	30.700	7106118
RWEB 640 DD	60	400	1	39.600	7106122
RWEB 645 DD	60	450	1	43.600	7106124
RWEB 650 DD	60	500	1	47.500	7106126
RWEB 660 DD	60	600	1	55.500	7106130

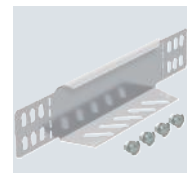
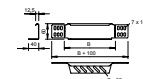


Reducer/stop-end plate for cable trays with side height 60 mm.
From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

A2 2B

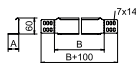
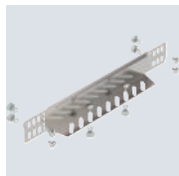
Reducer/stop-end 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 610 A2	60	100	1	12.500	7109814
RWEB 615 A2	60	150	1	18.000	7109816
RWEB 620 A2	60	200	1	22.900	7109830
RWEB 630 A2	60	300	1	31.200	7109857
RWEB 640 A2	60	400	1	37.300	7109873
RWEB 650 A2	60	500	1	48.100	7109903
RWEB 660 A2	60	600	1	56.100	7109938



Reducer/stop-end plate for cable trays with side height 60 mm.
From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

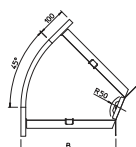
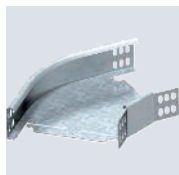
Reducer/stop-end 60



Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 610 A4	60	95	1	13.200	7109951
RWEB 620 A4	60	195	1	24.000	7109953
RWEB 630 A4	60	295	1	32.100	7109955
RWEB 640 A4	60	395	1	41.300	7109957
RWEB 650 A4	60	495	1	49.400	7109959
RWEB 660 A4	60	595	1	57.400	7109961

Reducer and end closure plate for cable trays with side height 60 mm.
From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

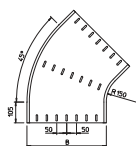
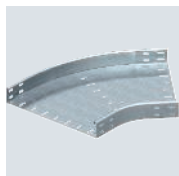
45° bend 60



Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 45 610 FS	60	100	1	57.600	6043763
RB 45 615 FS	60	150	1	66.800	6043755
RB 45 620 FS	60	200	1	80.800	6043771
RB 45 630 FS	60	300	1	112.900	6043798
RB 45 610 FT	60	100	1	62.000	7066112
RB 45 615 FT	60	150	1	72.200	7066158
RB 45 620 FT	60	200	1	87.400	7066228
RB 45 630 FT	60	300	1	122.700	7066317

45° bend, horizontal, for all cable tray types of 60 mm side height.
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.

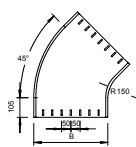
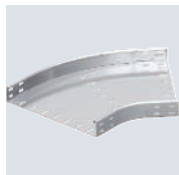
45° bend 60



Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 45 640 FS	60	400	1	301.000	7000383
RB 45 650 FS	60	500	1	385.900	7000405
RB 45 660 FS	60	600	1	480.400	7000421
RB 45 640 FT	60	400	1	301.000	7066406
RB 45 650 FT	60	500	1	412.800	7066503
RB 45 660 FT	60	600	1	515.600	7066600

45° bend, horizontal, for all cable tray types of 60 mm side height.
Fastening materials should be ordered separately.

45° bend 60



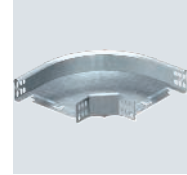
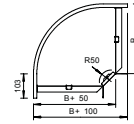
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 45 640 A2	60	400	1	300.700	7133235

45° bend, horizontal and unperforated, for all cable tray types of 60 mm side height.
Fitting, unperforated, in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

St FS FT

90° bend 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 610 FS	60	100	1	71.900	6043216
RB 90 615 FS	60	150	1	88.400	6043208
RB 90 620 FS	60	200	1	110.300	6043224
RB 90 630 FS	60	300	1	167.400	6043232
RB 90 610 FT	60	100	1	77.600	7125100
RB 90 615 FT	60	150	1	89.500	7125189
RB 90 620 FT	60	200	1	119.600	7125220
RB 90 630 FT	60	300	1	181.200	7125305

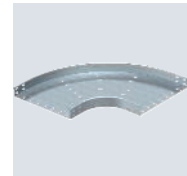
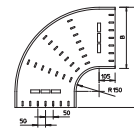


90° bend, horizontal, for all cable tray types of 60 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

St FS FT

90° bend 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 640 FS	60	400	1	472.300	7001290
RB 90 650 FS	60	500	1	527.000	7001304
RB 90 660 FS	60	600	1	680.000	7001312
RB 90 640 FT	60	400	1	507.000	7125410
RB 90 650 FT	60	500	1	559.000	7125526
RB 90 660 FT	60	600	1	721.500	7125585

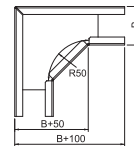


90° bend, horizontal, for all cable tray types of 60 mm side height.
Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

St FS FT

90° bend

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 605 FS	60	50	1	39.300	7124430
RB 90 605 FT	60	50	1	41.600	7124438

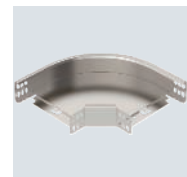
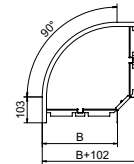


90° bend for horizontal routing of cable trays, type RKS 605.

A2 A4 2B

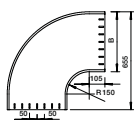
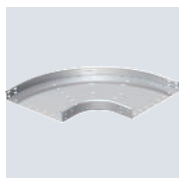
90° bend 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 610 A2	60	100	1	125.000	7134122
RB 90 620 A2	60	200	1	110.400	7134130
RB 90 630 A2	60	300	1	166.600	7134138
RB 90 610 A4	60	100	1	125.000	7134286
RB 90 620 A4	60	200	1	111.900	7134288
RB 90 630 A4	60	300	1	166.600	7134290



90° bend, horizontal, for all cable tray types of 60 mm side height.
The 100 mm width has a rectangle shape and does not correspond to the image.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

90° bend 60



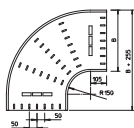
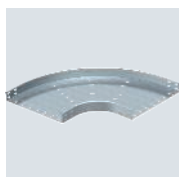
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBU 90 640 A2	60	400	1	465.000	7134231
RBU 90 650 A2	60	500	1	610.000	7134258
RBU 90 660 A2	60	600	1	770.000	7134266
RBU 90 640 A4	60	400	1	465.000	7134292
RBU 90 650 A4	60	500	1	610.000	7134294
RBU 90 660 A4	60	600	1	770.000	7134296

90° bend, horizontal and unperforated, for all cable tray types of 60 mm side height.

Fitting, unperforated, in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

90° bend 60 FT SOMY

St FT SO



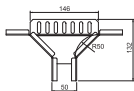
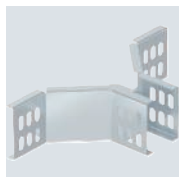
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 640 FT SO	60	400	1	531.000	7196286

90° bend, horizontal, for all cable tray types of 60 mm side height.

Fitting in round version. The inner radius of the fitting is 150 mm. Fastening materials should be ordered separately.

Add-on tee 60

St FS FT

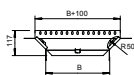
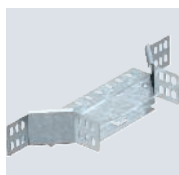


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 605 FS	60	50	1	30.000	7120460
RAA 605 FT	60	50	1	30.300	7120468

Add-on tee for horizontal routing of cable trays, type RKS 605.

Add-on tee 60

St FS FT



Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 610 FS	60	100	1	44.200	6040403
RAA 615 FS	60	150	1	40.100	6040411
RAA 620 FS	60	200	1	53.100	6040438
RAA 630 FS	60	300	1	61.900	6040446
RAA 610 FT	60	100	1	47.700	7121109
RAA 615 FT	60	150	1	43.400	7121205
RAA 620 FT	60	200	1	57.500	7121210
RAA 630 FT	60	300	1	67.100	7121318

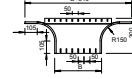
Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height.

The fitting is shipped in an unmounted state. Including appropriate fastening material.

St FS FT

Add-on tee 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 640 FS	60	400	1	220.000	7002394
RAA 650 FS	60	500	1	255.000	7002416
RAA 660 FS	60	600	1	285.000	7002432
RAA 640 FT	60	400	1	240.000	7121407
RAA 650 FT	60	500	1	280.000	7121504
RAA 660 FT	60	600	1	310.000	7121601

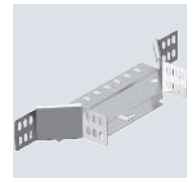
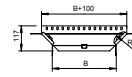


Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height. Fastening materials should be ordered separately.

A2 A4 2B

Add-on tee 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 610 A2	60	100	1	44.200	7136120
RAA 620 A2	60	200	1	53.200	7136133
RAA 630 A2	60	300	1	61.500	7136141
RAA 610 A4	60	100	1	44.200	7136122
RAA 630 A4	60	300	1	61.500	7136143
RAA 620 A4	60	200	1	53.200	7136135

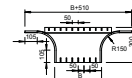


Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height. The fitting is shipped in an unmounted state. Including appropriate fastening material.

A2 A4 2B

Add-on tee 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 640 A2	60	400	1	220.000	7136242
RAA 650 A2	60	500	1	255.000	7136250
RAA 660 A2	60	600	1	285.000	7136269
RAA 640 A4	60	400	1	220.000	7136244
RAA 650 A4	60	500	1	255.000	7136252
RAA 660 A4	60	600	1	285.000	7136271

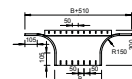


Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height. Fastening materials should be ordered separately.

St FT SO

Add-on tee 60 FT SOMY

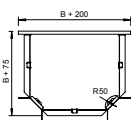
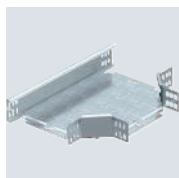
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 640 FT SO	60	400	1	240.000	7196188
RAA 660 FT SO	60	600	1	331.500	7196190



Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height. Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

T branch piece 60

St FT

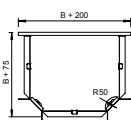
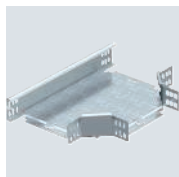


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RT 610 FT	60	100	1	89.900	7117116
RT 615 FT	60	150	1	109.000	7117162
RT 620 FT	60	200	1	144.800	7117209
RT 630 FT	60	300	1	215.900	7117306

Horizontal T branch piece, for all cable tray types of 60 mm side height.
The fitting is shipped in an unmounted state. All the sides are designed for the same cable tray width.
Including appropriate fastening material.

T branch piece 60

St FS

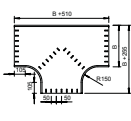
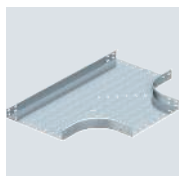


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RT 610 FS	60	100	1	83.200	6043410
RT 615 FS	60	150	1	101.000	6043402
RT 620 FS	60	200	1	133.200	6043429
RT 630 FS	60	300	1	198.200	6043437

Horizontal T branch piece, for all cable tray types of 60 mm side height.
The fitting is shipped in an unmounted state. All the sides are designed for the same cable tray width.
Including appropriate fastening material.

T branch piece 60

St FT

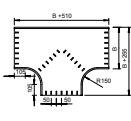
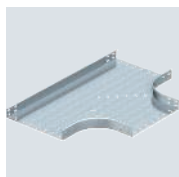


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RT 640 FT	60	400	1	746.000	7117396
RT 650 FT	60	500	1	804.500	7117507
RT 660 FT	60	600	1	1,001.700	7117604

Horizontal T branch piece, for all cable tray types of 60 mm side height.
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.

T branch piece 60

St FS



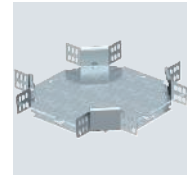
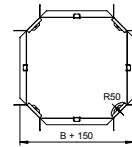
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RT 640 FS	60	400	1	697.000	7003390
RT 650 FS	60	500	1	804.000	7003412
RT 660 FS	60	600	1	1,001.000	7003439

Horizontal T branch piece, for all cable tray types of 60 mm side height.
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.

St FT

Cross-over 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RK 610 FT	60	100	1	97.000	7113110
RK 620 FT	60	200	1	148.300	7113218
RK 630 FT	60	300	1	216.000	7113315

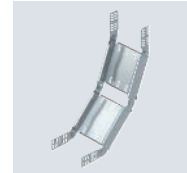


Horizontal cross-over for all cable tray types of 60 mm side height.
The fitting is shipped in an unmounted state. All the sides are designed for the same cable tray width. Including appropriate fastening material.

St FS FT

90° adjustable bend, vertical 60

Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBV 615 FS	60	150	1	200.000	7006330
RGBV 610 FT	60	100	1	186.000	7079109
RGBV 615 FT	60	150	1	200.000	7079141
RGBV 620 FT	60	200	1	239.000	7079206
RGBV 630 FT	60	300	1	295.000	7079303
RGBV 640 FT	60	400	1	349.000	7079400
RGBV 650 FT	60	500	1	404.000	7079508
RGBV 660 FT	60	600	1	460.000	7079605

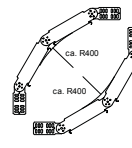


The bend is shipped in an unmounted state. No additional fastening materials are required.
90° adjustable vertical bend, for all cable tray types with a side height of 60 mm.

A2 2B

90° adjustable bend, vertical 60

Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBV 610 A2	60	100	1	182.000	7138113

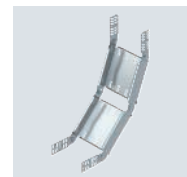


The bend is shipped in an unmounted state. No additional fastening materials are required.
90° adjustable vertical bend, for all cable tray types with a side height of 60 mm.

St FS FT

90° adjustable bend, vertical 60

Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBV 615 FS	60	150	1	200.000	7006330
RGBV 610 FT	60	100	1	186.000	7079109
RGBV 615 FT	60	150	1	200.000	7079141
RGBV 620 FT	60	200	1	239.000	7079206
RGBV 630 FT	60	300	1	295.000	7079303
RGBV 640 FT	60	400	1	349.000	7079400
RGBV 650 FT	60	500	1	404.000	7079508
RGBV 660 FT	60	600	1	460.000	7079605

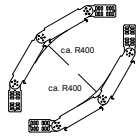
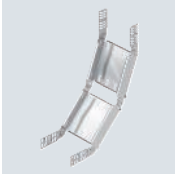


The bend is shipped in an unmounted state. No additional fastening materials are required.
90° adjustable vertical bend, for all cable tray types with a side height of 60 mm.

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90° adjustable bend, vertical 60

A2 2B



Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBV 610 A2	60	100	1	182.000	7138113

The bend is shipped in an unmounted state. No additional fastening materials are required.
90° adjustable vertical bend, for all cable tray types with a side height of 60 mm.

Adjustable bend element, vertical 60

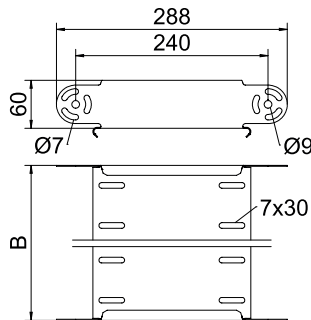
St FS FT



Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBEV 610 FS	60	1	48.100	7005326
RGBEV 615 FS	60	1	63.700	7005334
RGBEV 620 FS	60	1	63.600	7005342
RGBEV 630 FS	60	1	80.400	7005369
RGBEV 640 FS	60	1	114.000	7005385
RGBEV 650 FS	60	1	134.000	7005407
RGBEV 660 FS	60	1	155.900	7005423
RGBEV 610 FT	60	1	52.400	7075103
RGBEV 615 FT	60	1	60.300	7075154
RGBEV 620 FT	60	1	69.300	7075200
RGBEV 630 FT	60	1	87.600	7075308
RGBEV 640 FT	60	1	123.000	7075405
RGBEV 650 FT	60	1	144.000	7075502
RGBEV 660 FT	60	1	167.200	7075596

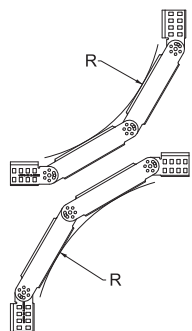
Adjustable vertical bend element, for all cable tray types with a side height of 60 mm.
RGV 60 adjustable connectors should be ordered separately and in the appropriate quantity.

Dimensions



Type	Dim. B mm	Metal 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



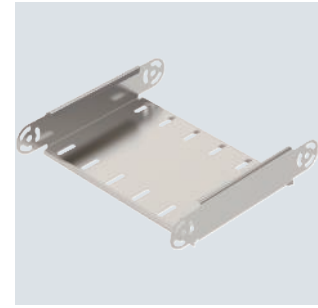
Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	Approx. 600 mm
4	approx. 750 mm
5	Approx. 900 mm

Please order two RGV 60 adjustable connectors separately.

A2 A4 2B

Adjustable vertical bend element 60

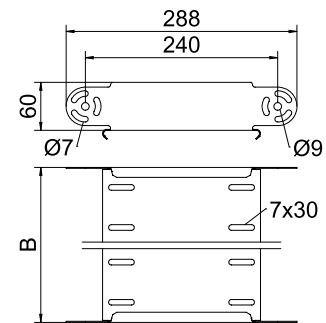
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBEV 610 A2	60	1	53.300	7075651
RGBEV 620 A2	60	1	74.100	7075653
RGBEV 630 A2	60	1	94.800	7075655
RGBEV 640 A2	60	1	115.500	7075657
RGBEV 650 A2	60	1	136.200	7075659
RGBEV 660 A2	60	1	157.000	7075661
RGBEV 610 A4	60	1	54.000	7075671
RGBEV 620 A4	60	1	75.000	7075673
RGBEV 630 A4	60	1	96.000	7075675
RGBEV 640 A4	60	1	117.000	7075677
RGBEV 650 A4	60	1	138.000	7075679
RGBEV 660 A4	60	1	159.000	7075681



Adjustable vertical bend element, for all cable tray types with a side height of 60 mm.
RGV 60 adjustable connectors should be ordered separately and in the appropriate quantity.

Type	Dim. B mm	Metal thickness mm
RGBEV 610 A2	100	1.00
RGBEV 620 A2	200	1.00
RGBEV 630 A2	300	1.00
RGBEV 640 A2	400	1.00
RGBEV 650 A2	500	1.00
RGBEV 660 A2	600	1.00

Dimensions

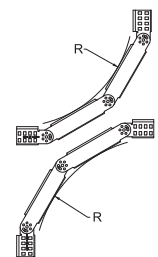


Radius table

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 60 articulated connectors separately.

Installation

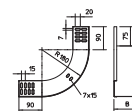


St FT SO

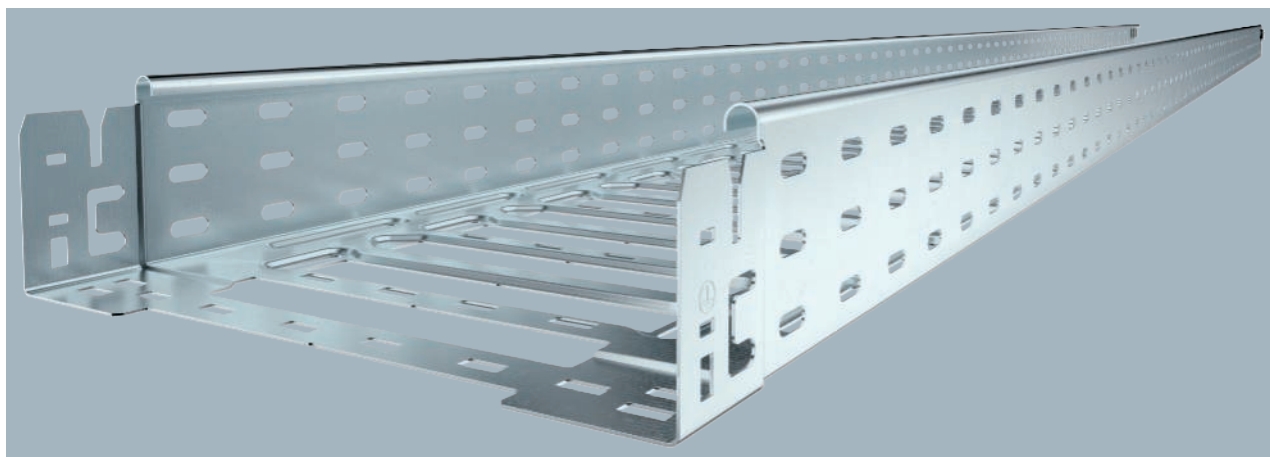
90° vertical bend, rising, 60 FT SOMY

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 630 S FT SO	60	300	1	143.000	7195589

90° rising vertical bend, for all cable tray types of 60 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.



Cable tray MKS-Magic® 85



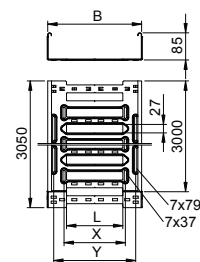
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKSM 810 FS	100	1.00	3	200.000	6059080
MKSM 820 FS	200	1.00	3	254.754	6059084
MKSM 830 FS	300	1.00	3	292.131	6059086
MKSM 840 FS	400	1.00	3	329.508	6059088
MKSM 850 FS	500	1.00	3	366.885	6059090
MKSM 860 FS	600	1.00	3	403.934	6059092

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm. The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.

From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

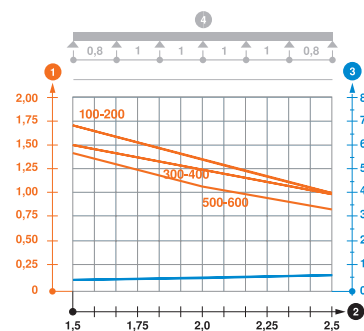
Type	Length mm	Dim. B mm	Usable cross-section cm ²	Dim. L mm	Dim. x mm	Dim. y mm
MKSM 810 FS	3050	100	83	30	—	62
MKSM 820 FS	3050	200	186	80	96	162
MKSM 830 FS	3050	300	253	180	196	262
MKSM 840 FS	3050	400	338	280	296	362
MKSM 850 FS	3050	500	423	380	396	462
MKSM 860 FS	3050	600	508	480	496	562

Dimensions



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

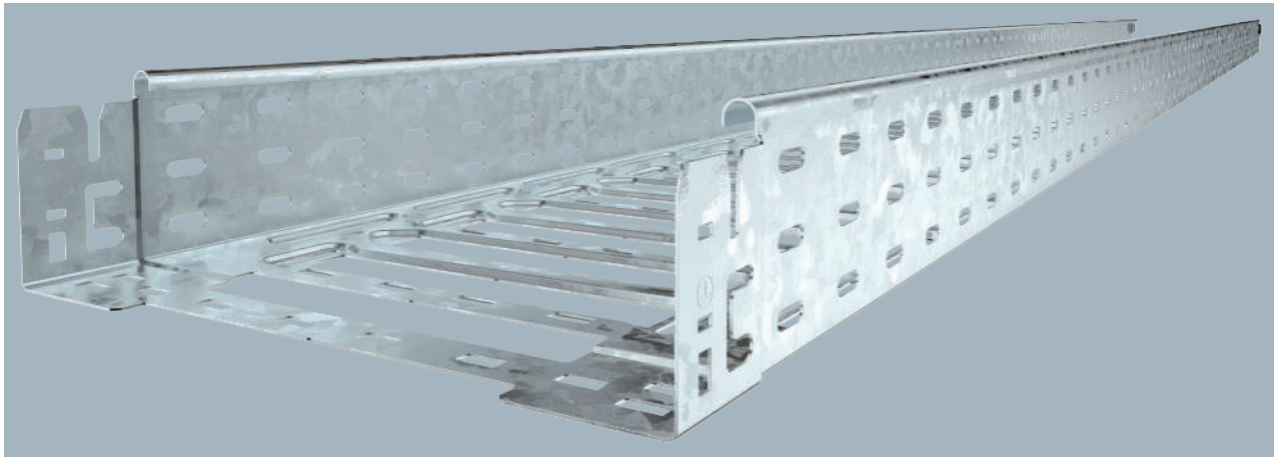


Load diagram, cable tray, type MKSM 85

- 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

St FT

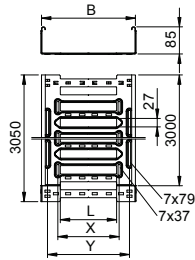
Cable tray MKS-Magic® 85



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm. The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components. From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

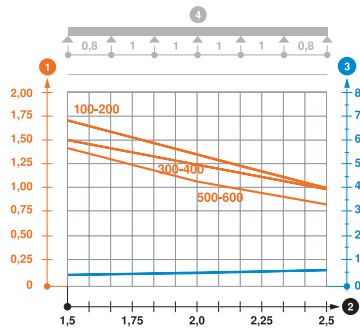
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKSM 810 FT	100	1.00	3	218.032	6059097
MKSM 820 FT	200	1.00	3	277.704	6059101
MKSM 830 FT	300	1.00	3	318.688	6059103
MKSM 840 FT	400	1.00	3	359.344	6059105
MKSM 850 FT	500	1.00	3	400.000	6059107
MKSM 860 FT	600	1.00	3	440.327	6059109

Dimensions



Type	Length mm	Usable Dim. B mm	cross-section cm ²	Dim. L mm	Dim. x mm	Dim. y mm	Dimension mm
MKSM 810 FT	3050	100	83	30	—	62	
MKSM 820 FT	3050	200	186	80	96	162	
MKSM 830 FT	3050	300	253	180	196	262	
MKSM 840 FT	3050	400	338	280	296	362	
MKSM 850 FT	3050	500	423	380	396	462	
MKSM 860 FT	3050	600	508	480	496	562	

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSM 810 FT	1.7	1.35	1
MKSM 820 FT	1.7	1.35	1
MKSM 830 FT	1.5	1.25	1
MKSM 840 FT	1.5	1.25	1
MKSM 850 FT	1.4	1.1	0.85
MKSM 860 FT	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 MKS-Magic® 85, unperforated

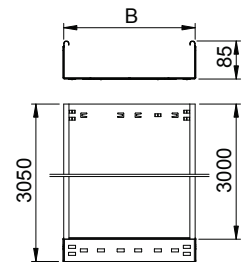


Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKSMU 810 FS	100	1.00	3	230.721	6059308
MKSMU 820 FS	200	1.00	3	309.049	6059312
MKSMU 830 FS	300	1.00	3	387.508	6059314
MKSMU 840 FS	400	1.00	3	465.934	6059316
MKSMU 850 FS	500	1.00	3	544.360	6059318
MKSMU 860 FS	600	1.00	3	622.786	6059320

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

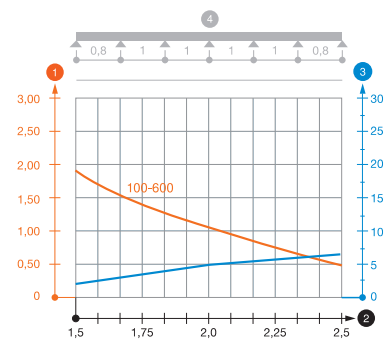
Type	Length mm	Dim. B mm	Usable cross-section cm ²
MKSMU 810 FS	3050	100	83
MKSMU 820 FS	3050	200	186
MKSMU 830 FS	3050	300	253
MKSMU 840 FS	3050	400	338
MKSMU 850 FS	3050	500	423
MKSMU 860 FS	3050	600	508

Dimensions



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

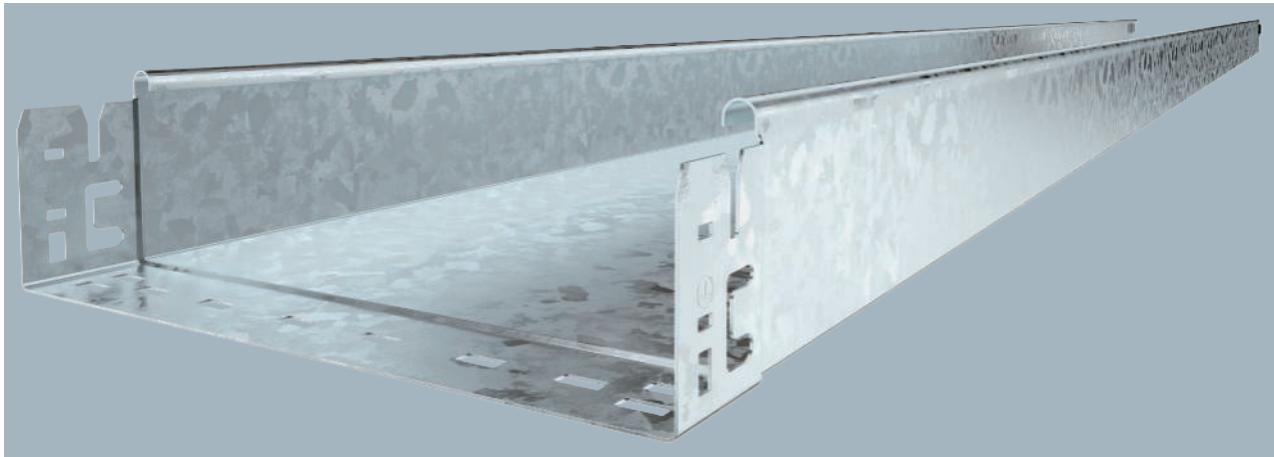


Load diagram, cable tray, type MKSMU 85

- 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

St FT

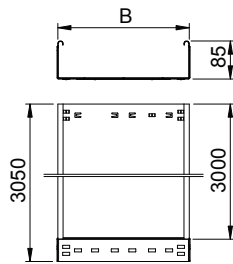
Cable tray MKS-Magic® 85, unperforated



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

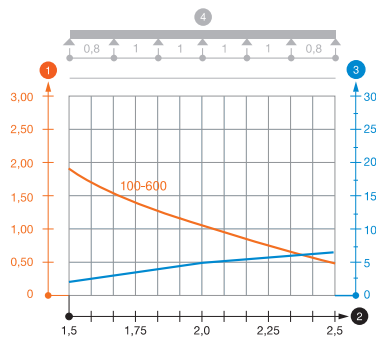
Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
MKSMU 810 FT	100	1.00	3	253.606	6059325
MKSMU 820 FT	200	1.00	3	339.737	6059329
MKSMU 830 FT	300	1.00	3	426.000	6059331
MKSMU 840 FT	400	1.00	3	512.229	6059333
MKSMU 850 FT	500	1.00	3	598.459	6059335
MKSMU 860 FT	600	1.00	3	684.688	6059337

Dimensions



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

Load

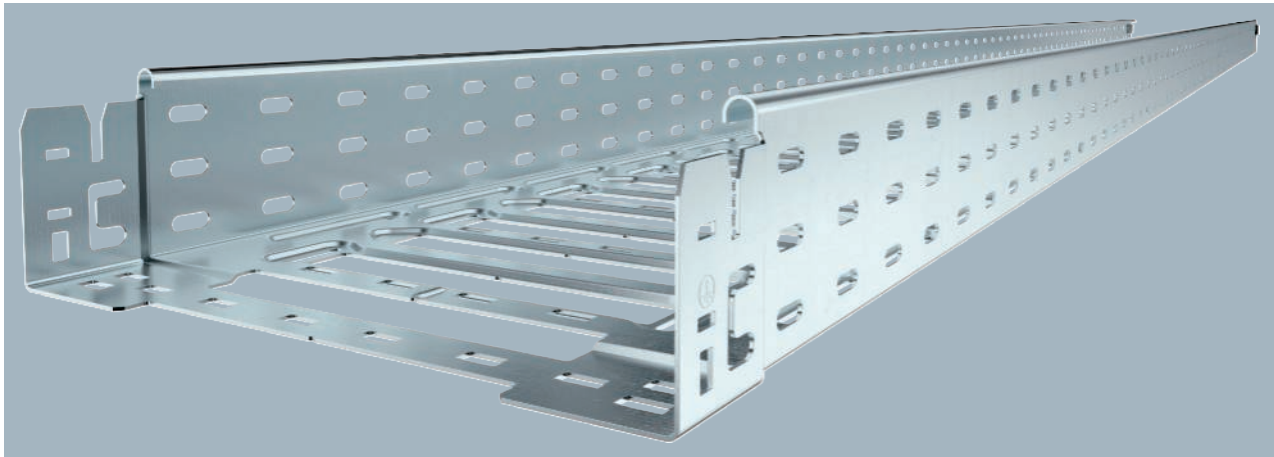


	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSMU 810 FT	1.75	1.1	0.5
MKSMU 820 FT	1.75	1.1	0.5
MKSMU 830 FT	1.75	1.1	0.5
MKSMU 840 FT	1.75	1.1	0.5
MKSMU 850 FT	1.75	1.1	0.5
MKSMU 860 FT	1.75	1.1	0.5

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® 85

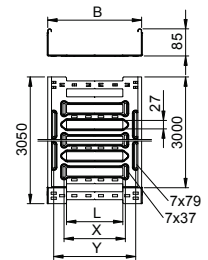


Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
SKSM 810 FS	100	1.50	3	301.836	6059530
SKSM 820 FS	200	1.50	3	381.967	6059534
SKSM 830 FS	300	1.50	3	438.032	6059536
SKSM 840 FS	400	1.50	3	494.098	6059538
SKSM 850 FS	500	1.50	3	550.163	6059540
SKSM 860 FS	600	1.50	3	605.901	6059542

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm. The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components. From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

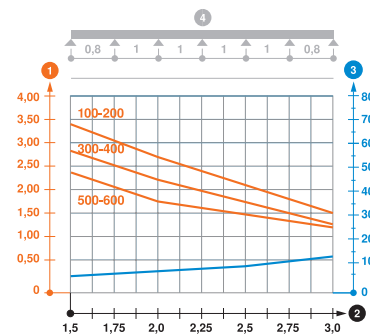
Type	Length mm	Dim. B mm	Usable		Dimen-	
			Dim. cross-section cm ²	Dim. L mm	Dim. x mm	Dim. y mm
SKSM 810 FS	3050	100	83	30	—	62
SKSM 820 FS	3050	200	186	80	96	162
SKSM 830 FS	3050	300	253	180	196	262
SKSM 840 FS	3050	400	338	280	296	362
SKSM 850 FS	3050	500	423	380	396	462
SKSM 860 FS	3050	600	508	480	496	562

Dimensions



Type	1.5 m	2.0 m	3.0 m
	kN/m	kN/m	kN/m
SKSM 810 FS	3.4	2.7	1.5
SKSM 820 FS	3.4	2.7	1.5
SKSM 830 FS	2.8	2.25	1.35
SKSM 840 FS	2.8	2.25	1.35
SKSM 850 FS	2.4	1.75	1.2
SKSM 860 FS	2.4	1.75	1.2

Load

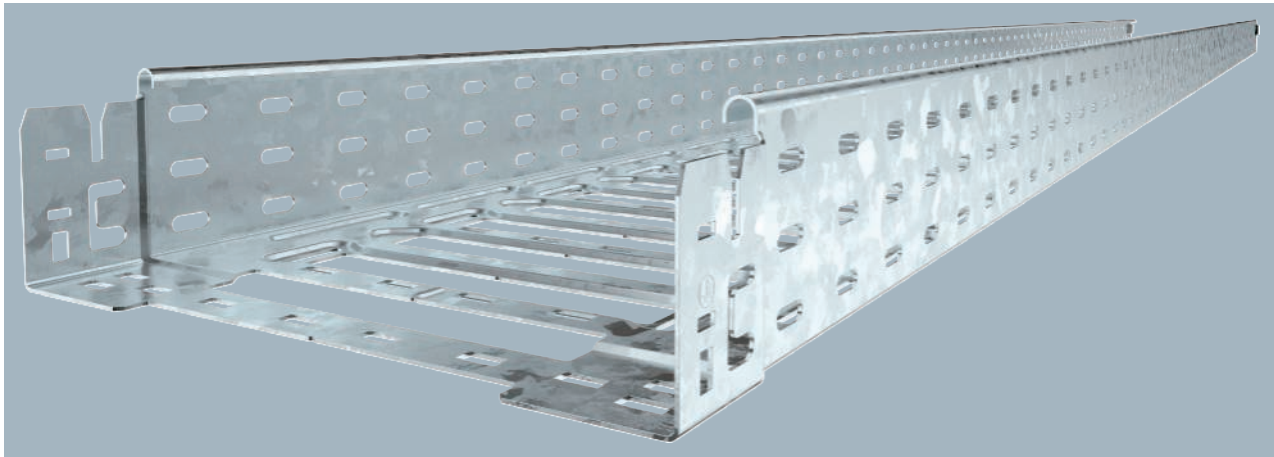


Load diagram, cable tray, type SKSM 85

- 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

St FT

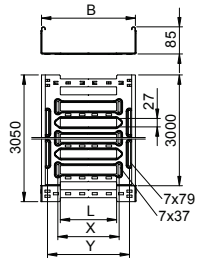
Cable tray SKS-Magic® 85



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm. The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components. From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

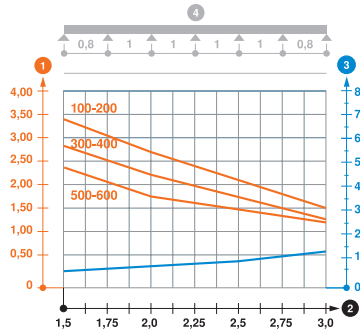
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
SKSM 810 FT	100	1.50	3	321.868	6059549
SKSM 820 FT	200	1.50	3	404.918	6059553
SKSM 830 FT	300	1.50	3	464.590	6059555
SKSM 840 FT	400	1.50	3	523.934	6059557
SKSM 850 FT	500	1.50	3	583.278	6059559
SKSM 860 FT	600	1.50	3	642.950	6059561

Dimensions



Type	Length mm	Usable Dim. B mm	cross-section cm ²	Dim. L mm	Dim. x mm	Dim. y mm	Dimension mm
SKSM 810 FT	3050	100	83	30	-	62	
SKSM 820 FT	3050	200	186	80	96	162	
SKSM 830 FT	3050	300	253	180	196	262	
SKSM 840 FT	3050	400	338	280	296	362	
SKSM 850 FT	3050	500	423	380	396	462	
SKSM 860 FT	3050	600	508	480	496	562	

Load



	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
SKSM 810 FT	3.4	2.7	1.5
SKSM 820 FT	3.4	2.7	1.5
SKSM 830 FT	2.8	2.25	1.35
SKSM 840 FT	2.8	2.25	1.35
SKSM 850 FT	2.4	1.75	1.2
SKSM 860 FT	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 SKS-Magic® 85, unperforated

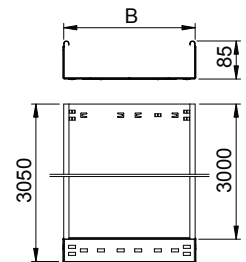


Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
SKSMU 810 FS	100	1.50	3	345.803	6059762
SKSMU 820 FS	200	1.50	3	463.344	6059766
SKSMU 830 FS	300	1.50	3	581.016	6059768
SKSMU 840 FS	400	1.50	3	698.688	6059770
SKSMU 850 FS	500	1.50	3	816.262	6059772
SKSMU 860 FS	600	1.50	3	933.934	6059774

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

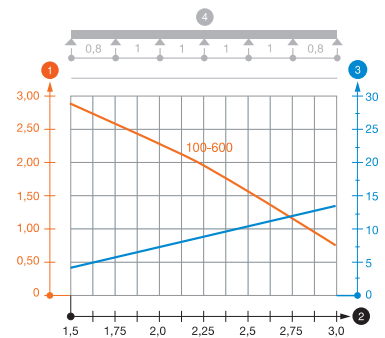
Type	Length mm	Usable Dim. cross- section B mm	cm ²
SKSMU 810 FS	3050	100	83
SKSMU 820 FS	3050	200	186
SKSMU 830 FS	3050	300	253
SKSMU 840 FS	3050	400	338
SKSMU 850 FS	3050	500	423
SKSMU 860 FS	3050	600	508

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKSMU 810 FS	2.8	2.25	1.5	0.75
SKSMU 820 FS	2.8	2.25	1.5	0.75
SKSMU 830 FS	2.8	2.25	1.5	0.75
SKSMU 840 FS	2.8	2.25	1.5	0.75
SKSMU 850 FS	2.8	2.25	1.5	0.75
SKSMU 860 FS	2.8	2.25	1.5	0.75

Load

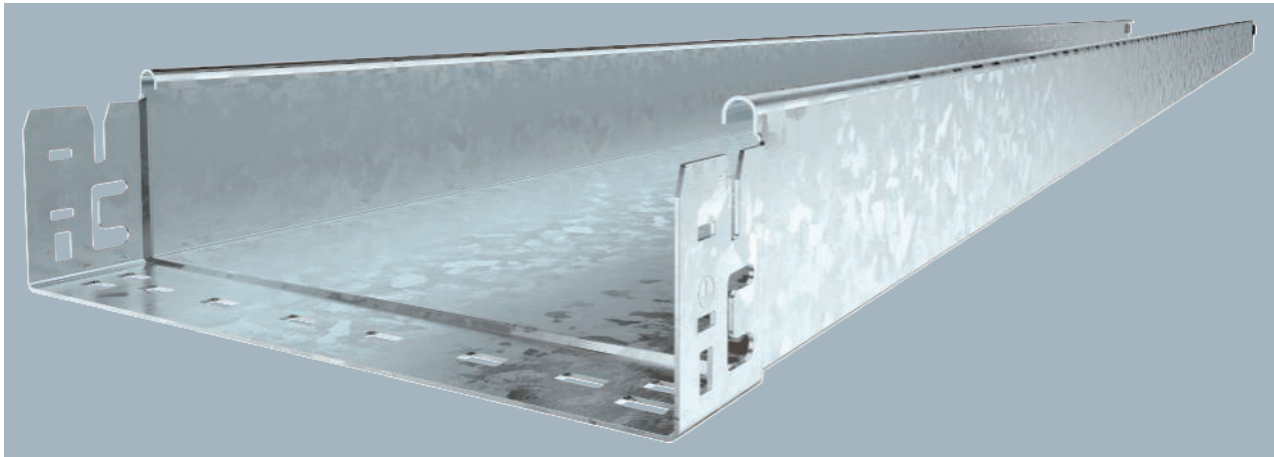


Load diagram, cable tray, type SKSMU 85

- 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

St FT

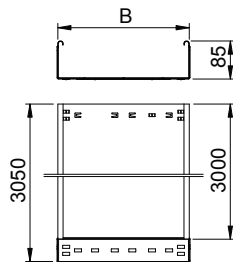
Cable tray SKS-Magic® 85, unperforated



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

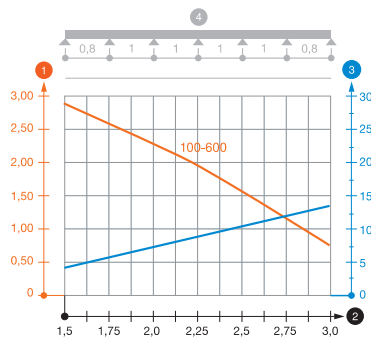
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
SKSMU 810 FT	100	1.50	3	368.819	6059779
SKSMU 820 FT	200	1.50	3	494.032	6059783
SKSMU 830 FT	300	1.50	3	619.508	6059785
SKSMU 840 FT	400	1.50	3	744.983	6059787
SKSMU 850 FT	500	1.50	3	848.721	6059789
SKSMU 860 FT	600	1.50	3	995.836	6059791

Dimensions



Type	Length mm	Dim. B mm	Usable Dim. cross-section cm²
SKSMU 810 FT	3050	100	83
SKSMU 820 FT	3050	200	186
SKSMU 830 FT	3050	300	253
SKSMU 840 FT	3050	400	338
SKSMU 850 FT	3050	500	423
SKSMU 860 FT	3050	600	508

Load



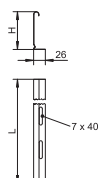
	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKSMU 810 FT	2.8	2.25	1.5	0.75
SKSMU 820 FT	2.8	2.25	1.5	0.75
SKSMU 830 FT	2.8	2.25	1.5	0.75
SKSMU 840 FT	2.8	2.25	1.5	0.75
SKSMU 850 FT	2.8	2.25	1.5	0.75
SKSMU 860 FT	2.8	2.25	1.5	0.75

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 85

St FS DD



Type	Metal			Pack m	Weight kg/100 m	Item no.
	Dim. H mm	thick- ness mm	Dim. L mm			
TSG 85 FS	85	0.75	3000	3	70.233	6062114
TSG 85 DD	85	0.75	3000	3	70.300	6062331

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

Separating retainer connector

VA 2B

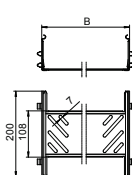
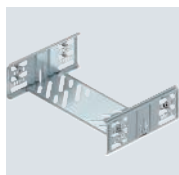


Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

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

Magic straight connector set 85

St FS DD



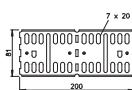
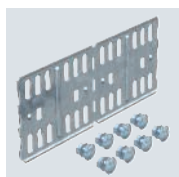
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
KTSMV 810 FS	85	100	1	37.100	6069002
KTSMV 820 FS	85	200	1	43.800	6069006
KTSMV 830 FS	85	300	1	50.600	6069008
KTSMV 840 FS	85	400	1	57.300	6069010
KTSMV 850 FS	85	500	1	64.000	6069012
KTSMV 860 FS	85	600	1	70.800	6069014
KTSMV 810 DD	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

Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 85 mm.

The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

Straight and angle connector 85

St FS FT

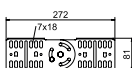


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVL 85 FS	85	10	27.300	6067123
RLVL 85 FT	85	10	28.300	6067816

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

Adjustable connector 85

St FS FT



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

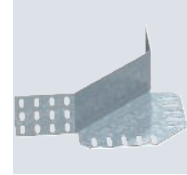
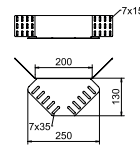
Adjustable connector for cable trays with a side height of 85 mm.
Including appropriate fastening material.

St FS DD

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 85 FS	85	10	61.000	6067980
REV 85 DD	85	1	61.000	6069320

Corner connector for cable trays with side height 85 mm.
Fastening materials should be ordered separately.

Corner connector 85

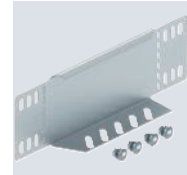
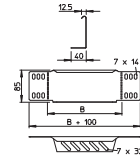


St FS DD

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 810 FS	85	100	1	12.000	7110103
RWEB 820 FS	85	200	1	23.000	7110200
RWEB 830 FS	85	300	1	33.000	7110308
RWEB 840 FS	85	400	1	43.000	7110405
RWEB 850 FS	85	500	1	53.000	7110502
RWEB 860 FS	85	600	1	63.000	7110618
RWEB 810 DD	85	100	1	12.000	7107315
RWEB 820 DD	85	200	1	23.000	7107331
RWEB 830 DD	85	300	1	33.000	7107366
RWEB 840 DD	85	400	1	43.000	7107382
RWEB 850 DD	85	500	1	53.000	7107404
RWEB 860 DD	85	600	1	63.000	7107420

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

Reducer/stop-end 85

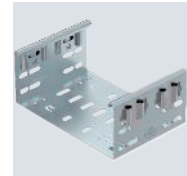
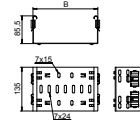


St DD

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	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

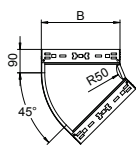
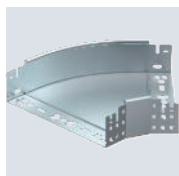
The fitting connector is compatible with cable tray types MKSM, MKSMU, SKSM and SKSMU.
Magic straight connector for direct and screwless joining of Magic fittings with a side height of 85 mm.
The straight connector is equipped with four brackets and can also be used for the direct connection with a cut 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 85 fitting connector



St FS FT

45° Magic bend 85

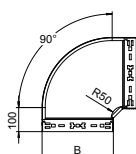
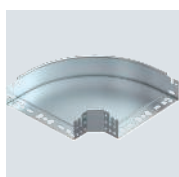


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 45 810 FS	85	100	1	60.600	6041410
RBM 45 820 FS	85	200	1	98.100	6041412
RBM 45 830 FS	85	300	1	142.300	6041414
RBM 45 840 FS	85	400	1	190.900	6041416
RBM 45 850 FS	85	500	1	250.700	6041418
RBM 45 860 FS	85	600	1	318.200	6041420
RBM 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

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

90° Magic bend 85

St FS FT

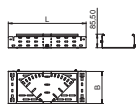
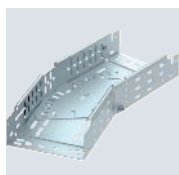


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 90 810 FS	85	100	1	78.500	6041490
RBM 90 820 FS	85	200	1	138.200	6041492
RBM 90 830 FS	85	300	1	213.300	6041494
RBM 90 840 FS	85	400	1	299.700	6041496
RBM 90 850 FS	85	500	1	405.300	6041498
RBM 90 860 FS	85	600	1	526.400	6041500
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

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

Magic 85 bend, variable

St FS FT



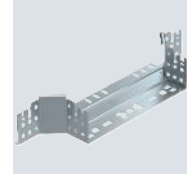
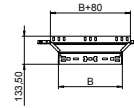
Type	Side height mm	Dim. B mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
RBMV 810 FS	85	100	340	1	88.500	6040580
RBMV 820 FS	85	200	490	1	185.400	6040584
RBMV 830 FS	85	300	640	1	324.700	6040586
RBMV 840 FS	85	400	820	1	505.500	6040588
RBMV 850 FS	85	500	960	1	1,059.200	6040590
RBMV 860 FS	85	600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

Magic bend 0°–90°, variable, with quick connector system. For all cable tray types of 85 mm side height.

St FS FT

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	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

Magic 85 add-on tee

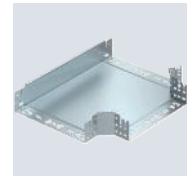
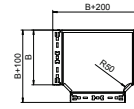


Add-on tee with quick connector system. For all cable tray types of 85 mm side height.

St FS FT

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	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

Magic 85 T branch piece

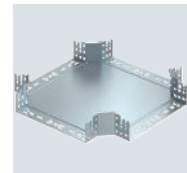
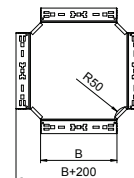


Tee with quick connector system. For all cable tray types of 85 mm side height.

St FS FT

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	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

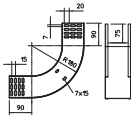
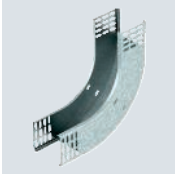
Magic 85 cross-over



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

90° vertical bend, rising 85

St FS FT



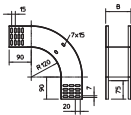
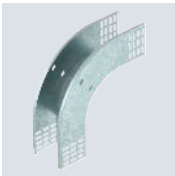
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 810 S FS	85	100	1	97.100	7007230
RBV 820 S FS	85	200	1	132.600	7007234
RBV 830 S FS	85	300	1	156.200	7007238
RBV 840 S FS	85	400	1	179.900	7007242
RBV 850 S FS	85	500	1	203.500	7007246
RBV 860 S FS	85	600	1	227.100	7007250
RBV 810 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

90° rising vertical bend, for all cable tray types of 85 mm side height.

The vertical bend is pushed over the end of the cable tray and screwed tight. Fastening materials should be ordered separately.

90° vertical bend, falling 85

St FS FT



Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	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

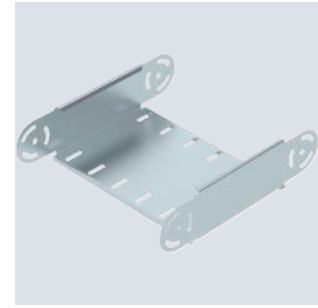
90° vertical bend, falling, for all cable tray types of 85 mm side height.

The vertical bend is pushed over the end of the cable tray and screwed tight. Fastening materials should be ordered separately.

St FS FT

Adjustable bend element, vertical 85

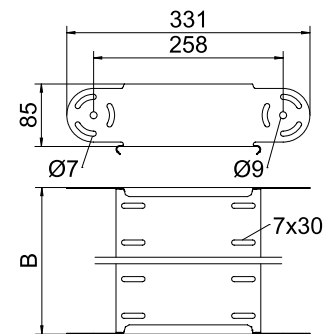
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBEV 810 FS	85	1	71.500	7005466
RGBEV 820 FS	85	1	91.900	7005482
RGBEV 830 FS	85	1	112.400	7005504
RGBEV 840 FS	85	1	133.000	7005520
RGBEV 850 FS	85	1	153.100	7005547
RGBEV 860 FS	85	1	173.400	7005563
RGBEV 810 FT	85	1	76.700	7076096
RGBEV 820 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



Adjustable vertical bend element, for all cable tray types with a side height of 85 mm.
 RGV 85 adjustable connectors should be ordered separately and in the appropriate quantity.

Type	Dim. B mm	Metal 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

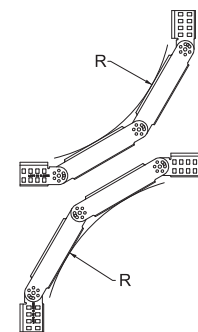
Dimensions



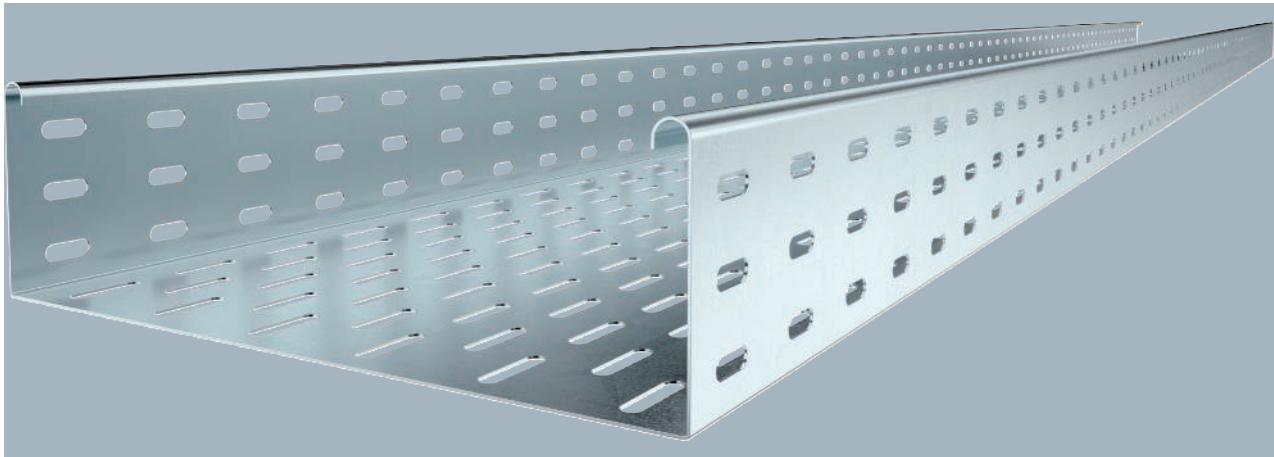
Radius table	
Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	approx. 600 mm
4	approx. 750 mm
5	approx. 900 mm

Please order two RGV 85 adjustable connectors separately.

Installation



Cable tray MKS 85



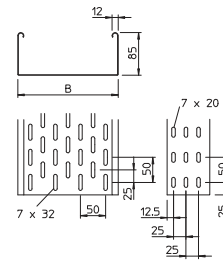
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKS 810 FS	100	1.00	3	207.670	6057101
MKS 820 FS	200	1.00	3	292.334	6057209
MKS 830 FS	300	1.00	3	357.667	6057306
MKS 840 FS	400	1.00	3	423.000	6057403
MKS 850 FS	500	1.00	3	488.000	6057500
MKS 860 FS	600	1.00	3	553.000	6057535

Including connector, type RLVL 85.

MKS 85 = medium-duty cable tray system with a side height of 85 mm.

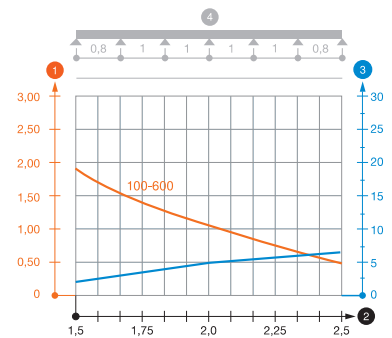
Type	Length mm	Dim. B mm	Usable cross-section cm ²
MKS 810 FS	3000	100	83
MKS 820 FS	3000	200	186
MKS 830 FS	3000	300	253
MKS 840 FS	3000	400	338
MKS 850 FS	3000	500	423
MKS 860 FS	3000	600	508

Dimensions



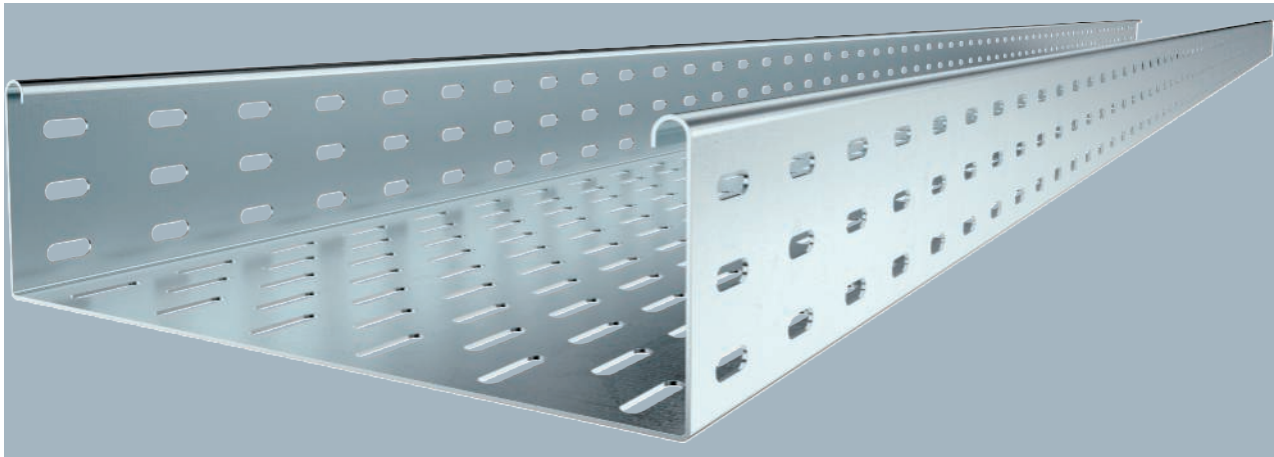
	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKS 810 FS	1.75	1.1	0.5
MKS 820 FS	1.75	1.1	0.5
MKS 830 FS	1.75	1.1	0.5
MKS 840 FS	1.75	1.1	0.5
MKS 850 FS	1.75	1.1	0.5
MKS 860 FS	1.75	1.1	0.5

Load



Load diagram, cable tray, type MKS 85

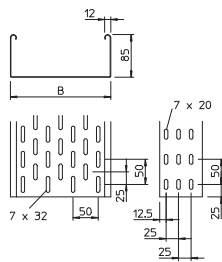
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
- From width 300 mm, tested with joint plate SSLB



FS version includes connector, type RLVL 85.
SKS 85 = heavy-duty cable tray system with 85 mm side height.

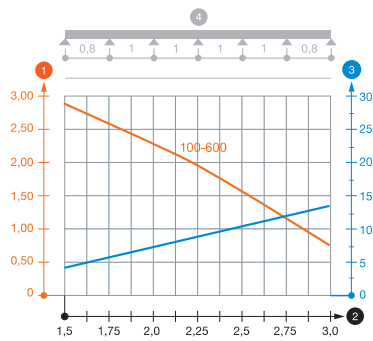
Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
SKS 810 FS	100	1.50	3	310.340	6058108
SKS 820 FS	200	1.50	3	429.000	6058205
SKS 830 FS	300	1.50	3	527.000	6058302
SKS 840 FS	400	1.50	3	624.000	6058396
SKS 850 FS	500	1.50	3	721.667	6058507
SKS 860 FS	600	1.50	3	821.000	6058604

Dimensions



Type	Length mm	Dim. B mm	Usable 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

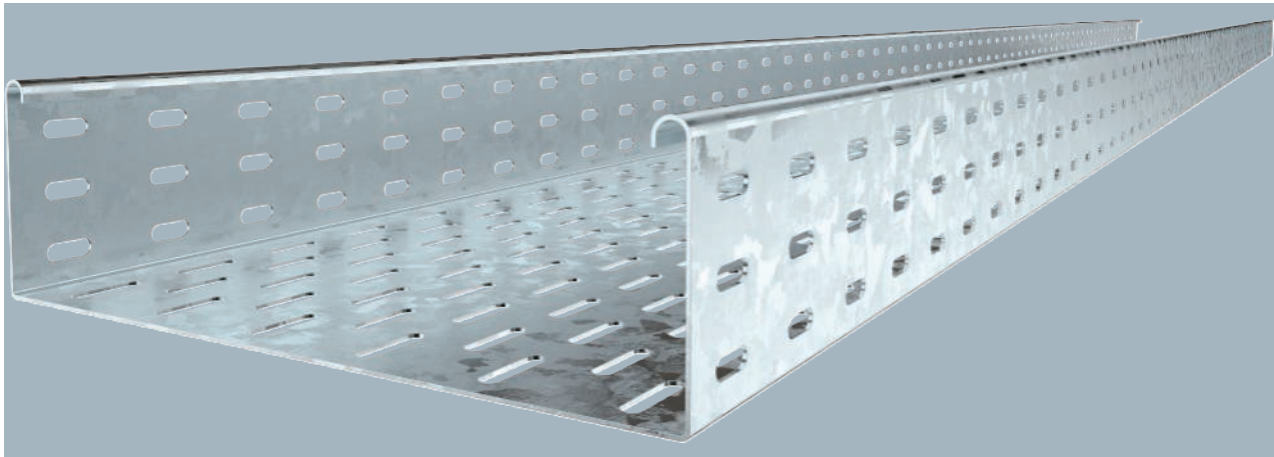


	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKS 810 FS	2.8	2.25	1.5	0.75
SKS 820 FS	2.8	2.25	1.5	0.75
SKS 830 FS	2.8	2.25	1.5	0.75
SKS 840 FS	2.8	2.25	1.5	0.75
SKS 850 FS	2.8	2.25	1.5	0.75
SKS 860 FS	2.8	2.25	1.5	0.75

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

Cable tray SKS 85

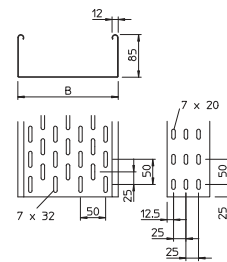


Type	Width mm	Metal thick- ness mm	Pack Weight		Item no.
			m	kg/100 m	
SKS 810 FT	100	1.50	3	334.000	6058620
SKS 820 FT	200	1.50	3	438.340	6058647
SKS 830 FT	300	1.50	3	543.000	6058663
SKS 840 FT	400	1.50	3	644.000	6058698
SKS 850 FT	500	1.50	3	750.340	6058728
SKS 860 FT	600	1.50	3	856.670	6058744

SKS 85 = heavy-duty cable tray system with 85 mm side height.

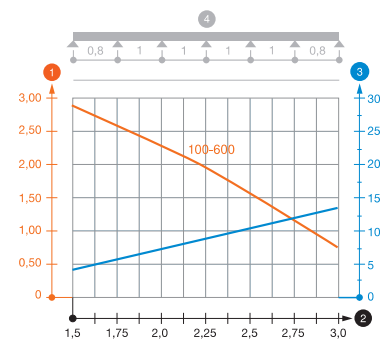
Type	Length mm	Dim. B mm	Usable cross- section cm ²
SKS 820 FT	3000	200	186
SKS 830 FT	3000	300	253
SKS 840 FT	3000	400	338
SKS 850 FT	3000	500	423
SKS 860 FT	3000	600	508

Dimensions



	1.5 m	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/m	kN/m
SKS 810 FT	2.8	2.25	1.5	0.75
SKS 820 FT	2.8	2.25	1.5	0.75
SKS 830 FT	2.8	2.25	1.5	0.75
SKS 840 FT	2.8	2.25	1.5	0.75
SKS 850 FT	2.8	2.25	1.5	0.75
SKS 860 FT	2.8	2.25	1.5	0.75

Load



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

St FS

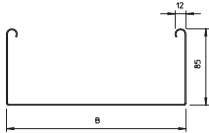
Cable tray MKSU 85



Including connector, type RLVL 85.
 MKSU 85 = medium-duty cable tray system with a side height of 85 mm.

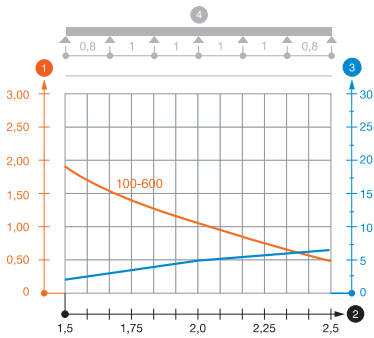
Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
MKSU 820 FS	200	1.00	3	308.340	6063314
MKSU 830 FS	300	1.00	3	386.670	6063330

Dimensions



Type	Length mm	Usable Dim. B mm	cross- section cm ²
MKSU 820 FS	3000	200	186
MKSU 830 FS	3000	300	253

Load

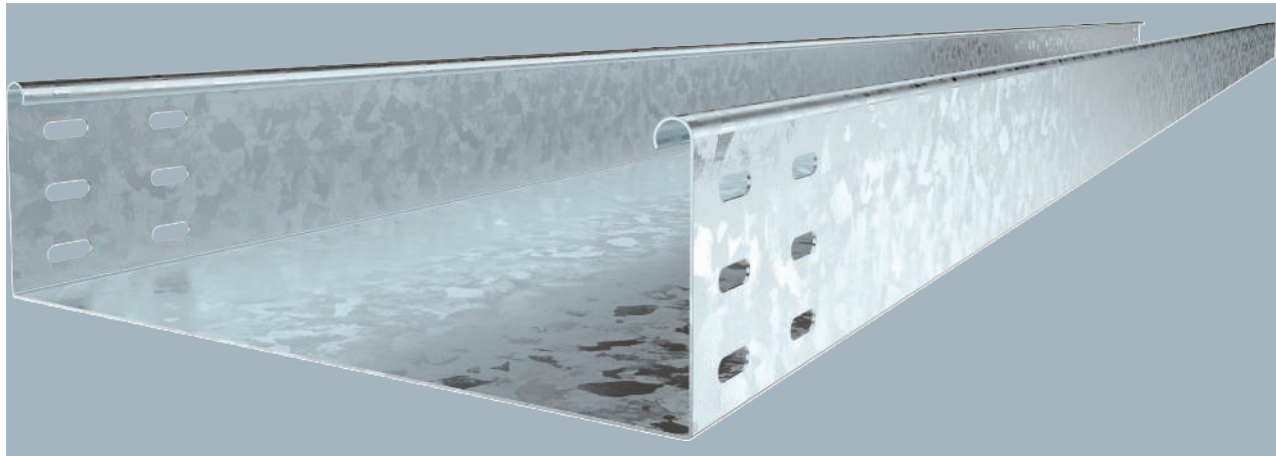


	1.5 m kN/m	1.75 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSU 820 FS	1.75	1.4	1.1	0.5
MKSU 830 FS	1.75	1.4	1.1	0.5

Load diagram, cable tray, type MKSU 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 MKSU 85



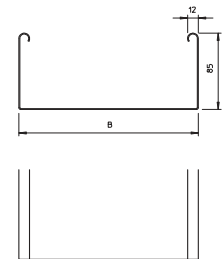
Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
MKSU 810 FT	100	1.00	3	248.500	6064556
MKSU 820 FT	200	1.00	3	333.500	6064559
MKSU 830 FT	300	1.00	3	417.700	6064561
MKSU 840 FT	400	1.00	3	502.500	6064564
MKSU 850 FT	500	1.00	3	587.500	6064568
MKSU 860 FT	600	1.00	3	671.700	6064571

Including connector, type RLVL 85.

MKSU 85 = medium-duty cable tray system with a side height of 85 mm.

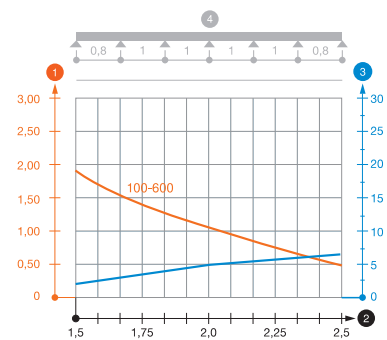
Type	Length mm	Dim. B mm	Usable cross- section cm ²
MKSU 810 FT	3000	100	83
MKSU 820 FT	3000	200	186
MKSU 830 FT	3000	300	253
MKSU 840 FT	3000	400	338
MKSU 850 FT	3000	500	423
MKSU 860 FT	3000	600	508

Dimensions



	1.5 m kN/m	1.75 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSU 810 FT	1.75	1.4	1.1	0.5
MKSU 820 FT	1.75	1.4	1.1	0.5
MKSU 830 FT	1.75	1.4	1.1	0.5
MKSU 840 FT	1.75	1.4	1.1	0.5
MKSU 850 FT	1.75	1.4	1.1	0.5
MKSU 860 FT	1.75	1.4	1.1	0.5

Load



Load diagram, cable tray, type MKSU 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

St FS

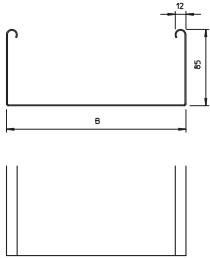
Cable tray MKSU 85



Including connector, type RLVL 85.
 MKSU 85 = medium-duty cable tray system with a side height of 85 mm.

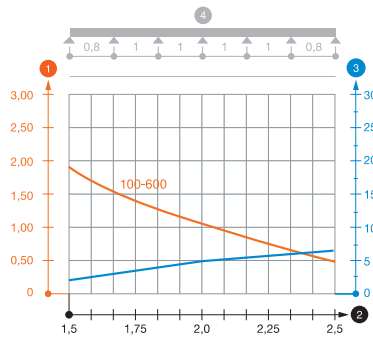
Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
MKSU 810 FS	100	1.00	3	230.000	6063312
MKSU 840 FS	400	1.00	3	465.000	6063332
MKSU 850 FS	500	1.00	3	543.700	6063334

Dimensions



Type	Length mm	Dim. B mm	Usable cross- section cm ²
MKSU 810 FS	3000	100	83
MKSU 840 FS	3000	400	338
MKSU 850 FS	3000	500	423

Load

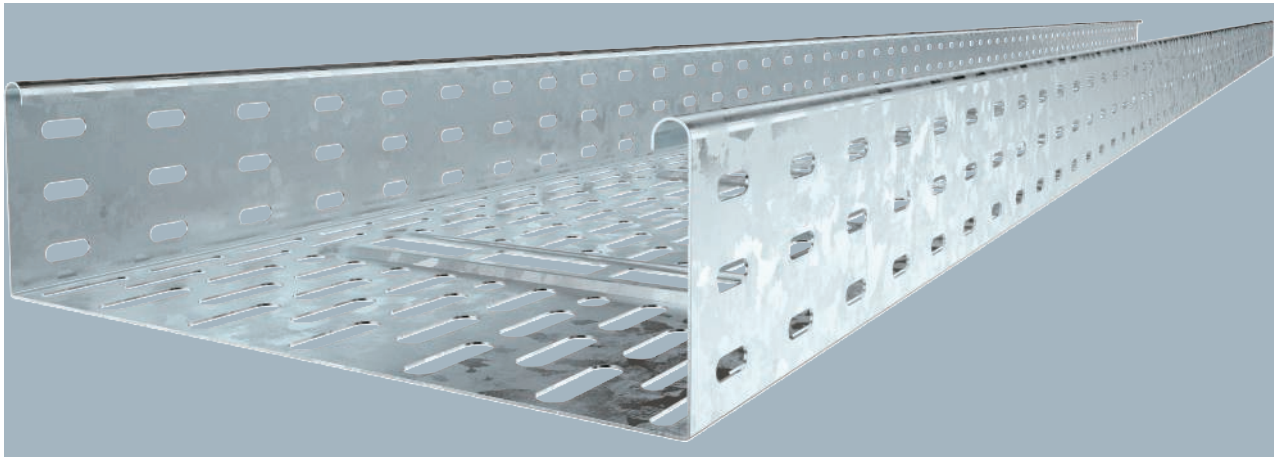


	1.5 m kN/m	1.75 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSU 810 FS	1.75	1.4	1.1	0.5
MKSU 840 FS	1.75	1.4	1.1	0.5
MKSU 850 FS	1.75	1.4	1.1	0.5

Load diagram, cable tray, type MKSU 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 DKS 85

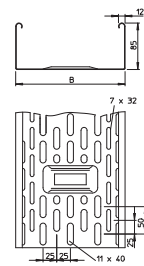


Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
DKS 820 FT	200	1.00	3	276.000	6086497

Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems. Bottom penetration from width 200 mm. Connecting parts should be ordered in the appropriate quantity. DKS 85 = perforated cable tray system with 85 mm side height.

Type	Length mm	Width mm	Usable cross- section cm ²
DKS 820 FT	3000	200	186

Dimensions

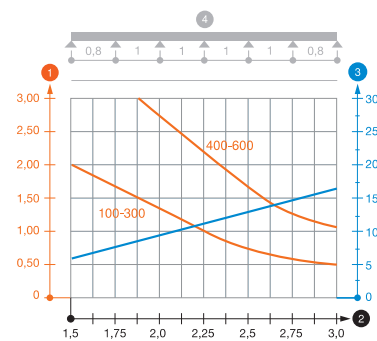


	1.5 m	2.0 m	2.5 m	3.0 m
DKS 820 FT	2	1.1	0.65	0.5

Load diagram, cable tray, type DKS 85

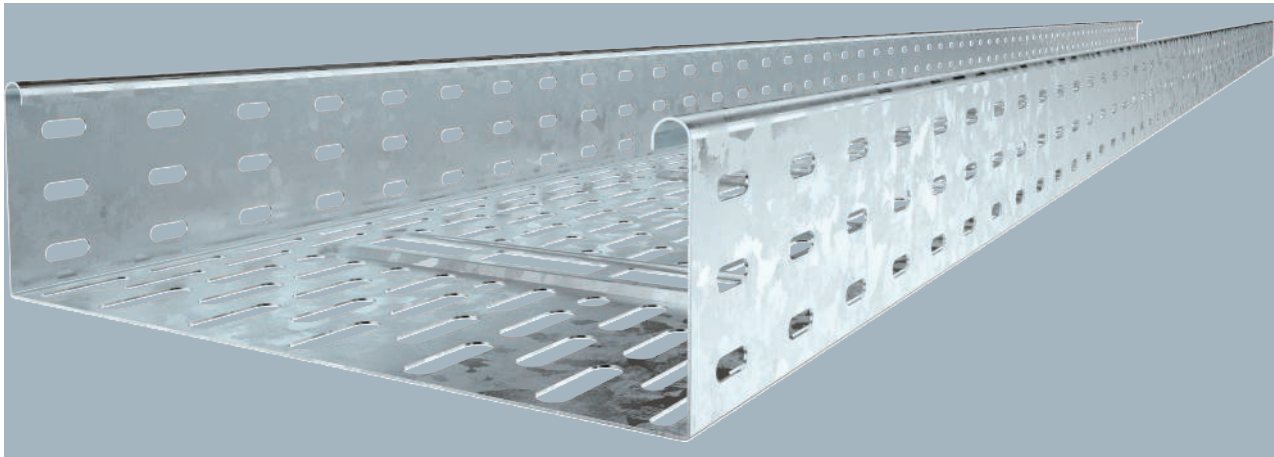
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width

Load



St FT

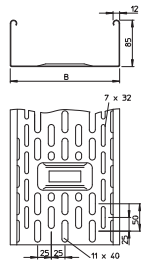
Cable tray DKS 85



Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems. Bottom penetration from width 200 mm. Connecting parts should be ordered in the appropriate quantity. DKS 85 = perforated cable tray system with 85 mm side height.

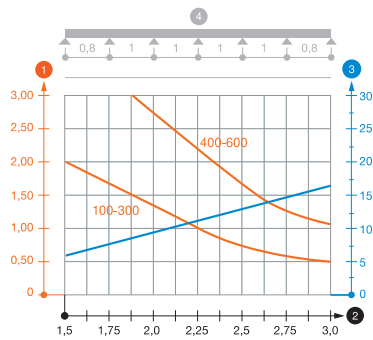
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
DKS 810 FT	100	1.00	3	215.600	6086470
DKS 830 FT	300	1.00	3	333.340	6086519
DKS 840 FT	400	1.50	3	580.400	6086659
DKS 850 FT	500	1.50	3	663.700	6086675
DKS 860 FT	600	1.50	3	746.967	6086691

Dimensions



Type	Length mm	Width mm	Usable cross-section cm ²
DKS 810 FT	3000	100	83
DKS 830 FT	3000	300	253
DKS 840 FT	3000	400	338
DKS 850 FT	3000	500	423
DKS 860 FT	3000	600	508

Load



Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
DKS 810 FT	2	1.1	0.65	0.5
DKS 830 FT	2	1.1	0.65	0.5
DKS 840 FT	3	2.75	1.5	1.1
DKS 850 FT	3	2.75	1.5	1.1
DKS 860 FT	3	2.75	1.5	1.1

Load diagram, cable tray, type DKS 85

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

St FS DD

Type	Dim. H mm	Metal thickness mm	Dim. 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

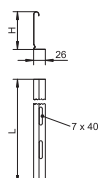
Separating retainer for separation of cables of different voltages or functions.

Separating retainer 60



Separating retainer 85

St FS DD



Type	Metal			Pack	Weight	Item no.
	Dim. H	thick-ness	Dim. L			
TSG 85 FS	85	0.75	3000	3	70.233	6062114
TSG 85 DD	85	0.75	3000	3	70.300	6062331

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

Separating retainer connector

VA 2B

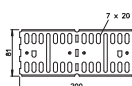
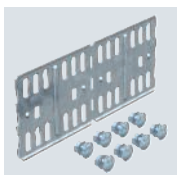


Type	Pack	Weight	Item no.
	Piece	kg/100 pc.	
TSGV A2	10	0.899	6067970

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

Straight and angle connector 85

St FS FT

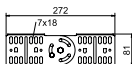


Type	Side height	Pack	Weight	Item no.
	mm	Piece	kg/100 pc.	
RLVL 85 FS	85	10	27.300	6067123
RLVL 85 FT	85	10	28.300	6067816

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

Adjustable connector 85

St FS FT

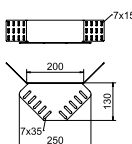
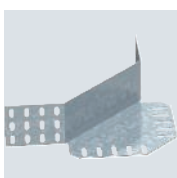


Type	Side height	Pack	Weight	Item no.
	mm	Piece	kg/100 pc.	
RGV 85 FS	85	10	44.100	7082029
RGV 85 FT	85	10	45.900	7082320

Adjustable connector for cable trays with a side height of 85 mm. Including appropriate fastening material.

Corner connector 85

St FS DD



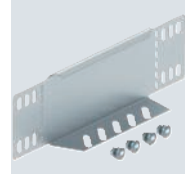
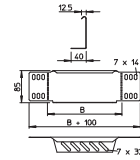
Type	Side height	Pack	Weight	Item no.
	mm	Piece	kg/100 pc.	
REV 85 FS	85	10	61.000	6067980
REV 85 DD	85	1	61.000	6069320

Corner connector for cable trays with side height 85 mm. Fastening materials should be ordered separately.

St FS DD

Reducer/stop-end 85

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 810 FS	85	100	1	12.000	7110103
RWEB 820 FS	85	200	1	23.000	7110200
RWEB 830 FS	85	300	1	33.000	7110308
RWEB 840 FS	85	400	1	43.000	7110405
RWEB 850 FS	85	500	1	53.000	7110502
RWEB 860 FS	85	600	1	63.000	7110618
RWEB 810 DD	85	100	1	12.000	7107315
RWEB 820 DD	85	200	1	23.000	7107331
RWEB 830 DD	85	300	1	33.000	7107366
RWEB 840 DD	85	400	1	43.000	7107382
RWEB 850 DD	85	500	1	53.000	7107404
RWEB 860 DD	85	600	1	63.000	7107420

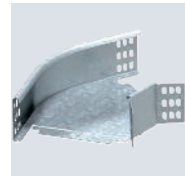
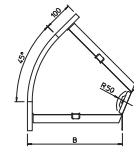


Reducer/stop-end for cable trays with side height 85 mm.
From a width of 150 mm, a perforated bottom flange is available.
Including appropriate fastening material.

St FS FT

45° bend 85

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 45 810 FS	85	100	1	60.000	7000472
RB 45 820 FS	85	200	1	85.000	7000499
RB 45 830 FS	85	300	1	120.000	7000510
RB 45 810 FT	85	100	1	65.000	7067119
RB 45 820 FT	85	200	1	90.000	7067216
RB 45 830 FT	85	300	1	130.000	7067313

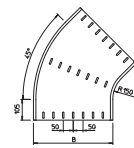


45° bend, horizontal, for all cable tray types of 85 mm side height.
The fitting is shipped in an unmounted state. The WKV 85 angle connector is designed for 90° bends and can be adjusted to 45° on site.
Including appropriate fastening material.

St FS FT

45° bend 85

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 45 840 FS	85	400	1	320.000	7000529
RB 45 850 FS	85	500	1	380.000	7000545
RB 45 860 FS	85	600	1	490.000	7000561
RB 45 840 FT	85	400	1	340.000	7067402
RB 45 850 FT	85	500	1	400.000	7067496
RB 45 860 FT	85	600	1	525.000	7067607

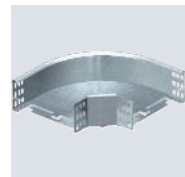
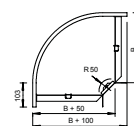


45° bend, horizontal, for all cable tray types of 85 mm side height.
Fastening materials should be ordered separately.

St FS FT

90° bend 85

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 810 FS	85	100	1	65.000	7001762
RB 90 820 FS	85	200	1	150.000	7001789
RB 90 830 FS	85	300	1	180.000	7001800
RB 90 810 FT	85	100	1	70.000	7126127
RB 90 820 FT	85	200	1	160.000	7126216
RB 90 830 FT	85	300	1	200.000	7126301

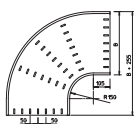
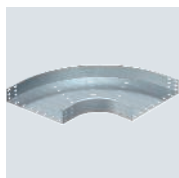


90° bend, horizontal, for all cable tray types of 85 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

Industriestationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExpert_03291) / 2023/05/05 11:26:04 11:26:04

90° bend 85

St FS FT

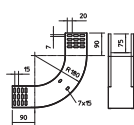


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 840 FS	85	400	1	500.000	7001819
RB 90 850 FS	85	500	1	650.000	7001835
RB 90 860 FS	85	600	1	820.000	7001851
RB 90 840 FT	85	400	1	540.000	7126417
RB 90 850 FT	85	500	1	690.000	7126514
RB 90 860 FT	85	600	1	870.000	7126611

90° bend, horizontal, for all cable tray types of 85 mm side height.
Fastening materials should be ordered separately.

90° vertical bend, rising 85

St FS FT

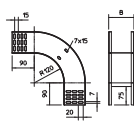
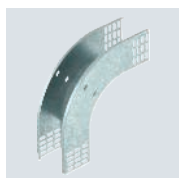


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 810 S FS	85	100	1	97.100	7007230
RBV 820 S FS	85	200	1	132.600	7007234
RBV 830 S FS	85	300	1	156.200	7007238
RBV 840 S FS	85	400	1	179.900	7007242
RBV 850 S FS	85	500	1	203.500	7007246
RBV 860 S FS	85	600	1	227.100	7007250
RBV 810 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

90° rising vertical bend, for all cable tray types of 85 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

90° vertical bend, falling 85

St FS FT



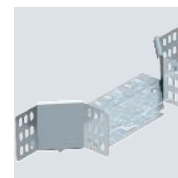
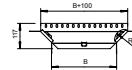
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 810 F FS	85	100	1	86.600	7007270
RBV 820 F FS	85	200	1	104.200	7007274
RBV 830 F FS	85	300	1	121.800	7007278
RBV 840 F FS	85	400	1	139.500	7007282
RBV 850 F FS	85	500	1	157.100	7007286
RBV 860 F FS	85	600	1	174.700	7007290
RBV 810 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

90° vertical bend, falling, for all cable tray types of 85 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

St FS FT

Add-on tee 85

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 810 FS	85	100	1	40.000	7002475
RAA 820 FS	85	200	1	45.000	7002491
RAA 830 FS	85	300	1	60.000	7002513
RAA 810 FT	85	100	1	45.000	7122109
RAA 820 FT	85	200	1	50.000	7122213
RAA 830 FT	85	300	1	65.000	7122310

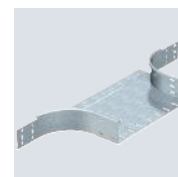
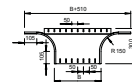


Add-on tee for horizontal and vertical use. For all cable tray types of 85 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

St FS FT

Add-on tee 85

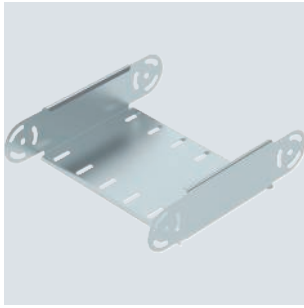
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 840 FS	85	400	1	230.000	7002521
RAA 850 FS	85	500	1	265.000	7002556
RAA 860 FS	85	600	1	295.000	7002572
RAA 840 FT	85	400	1	250.000	7122403
RAA 850 FT	85	500	1	290.000	7122500
RAA 860 FT	85	600	1	320.000	7122608



Add-on tee for horizontal and vertical use. For all cable tray types of 85 mm side height.
Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

Adjustable bend element, vertical 85

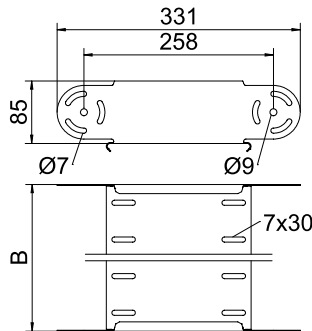
St FS FT



Type	Side height mm	Pack Piece	Weight kg/100 pc.	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

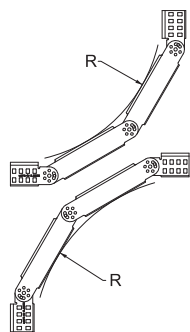
Adjustable vertical bend element, for all cable tray types with a side height of 85 mm.
RGV 85 adjustable connectors should be ordered separately and in the appropriate quantity.

Dimensions



Type	Dim. B mm	Metal 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

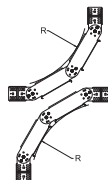


Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	approx. 600 mm
4	approx. 750 mm
5	approx. 900 mm

Please order two RGV 85 adjustable connectors separately.

90° adjustable bend, vertical 85

St FS FT



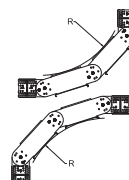
Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBV 810 FS	85	100	1	244.000	7006462
RGBV 820 FS	85	200	1	305.000	7006489
RGBV 830 FS	85	300	1	355.000	7006500
RGBV 840 FS	85	400	1	407.000	7006527
RGBV 850 FS	85	500	1	460.000	7006543
RGBV 860 FS	85	600	1	508.000	7006578
RGBV 810 FT	85	100	1	261.000	7080107
RGBV 820 FT	85	200	1	325.000	7080204
RGBV 830 FT	85	300	1	380.000	7080301
RGBV 840 FT	85	400	1	435.000	7080409
RGBV 850 FT	85	500	1	488.000	7080506
RGBV 860 FT	85	600	1	550.000	7080603

90° adjustable vertical bend, for all cable tray types with a side height of 85 mm.
The bend is shipped in an unmounted state. No additional fastening materials are required.

St FS FT

90° adjustable bend, vertical 110

Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBV 110 FS	110	100	1	363.000	7006624
RGBV 115 FS	110	150	1	392.000	7006632
RGBV 120 FS	110	200	1	420.000	7006640
RGBV 130 FS	110	300	1	480.000	7006667
RGBV 140 FS	110	400	1	530.000	7006683
RGBV 150 FS	110	500	1	580.000	7006705
RGBV 155 FS	110	550	1	610.000	7006713
RGBV 160 FS	110	600	1	630.000	7006717
RGBV 110 FT	110	100	1	363.000	7081103
RGBV 115 FT	110	150	1	392.000	7081108
RGBV 120 FT	110	200	1	420.000	7081200
RGBV 130 FT	110	300	1	480.000	7081308
RGBV 140 FT	110	400	1	530.000	7081405
RGBV 150 FT	110	500	1	580.000	7081502
RGBV 155 FT	110	550	1	610.000	7081553
RGBV 160 FT	110	600	1	630.000	7081555



90° adjustable vertical bend, for all cable tray types with a side height of 110 mm.

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



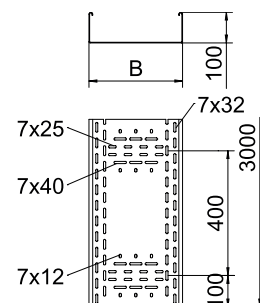
Cable tray BKRS 100



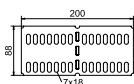
Type	Side height mm	Dim. H mm	Dim. B mm	Dim. L mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
BKRS 1010 FS	100	100	100	3000	2.00	3	469.800	6062000
BKRS 1020 FS	100	100	200	3000	2.00	3	614.567	6062002
BKRS 1030 FS	100	100	300	3000	2.00	3	761.267	6062004
BKRS 1040 FS	100	100	400	3000	2.00	3	908.000	6062006
BKRS 1050 FS	100	100	500	3000	2.00	3	1,054.700	6062008
BKRS 1060 FS	100	100	600	3000	2.00	3	1,201.400	6062010

Heavy-duty, walkable cable tray system BKRS with base perforation, in 100 mm side height.

The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.



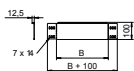
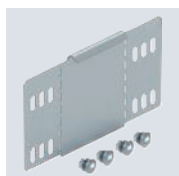
Universal connector 100 FS



Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RUVK 100 FS	100	10	22.100	6067870

Straight and angle connector for cable trays with a side height of 100 mm.

Reducer/stop-end 100



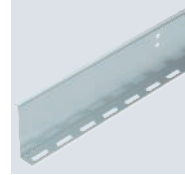
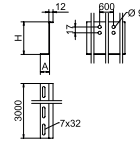
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 1010 FS	100	100	1	13.600	7111802
RWEB 1020 FS	100	200	1	22.100	7111804
RWEB 1030 FS	100	300	1	30.600	7111806
RWEB 1040 FS	100	400	1	39.100	7111808
RWEB 1050 FS	100	500	1	47.600	7111810
RWEB 1060 FS	100	600	1	56.100	7111812

Reducer/stop-end for cable trays with side height 100 mm. Including appropriate fastening material.

St FS

Barrier strip, Z-shaped 100

Type	Dim. H mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.



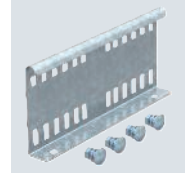
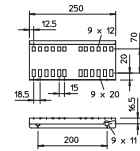
Barrier strip for the BKRS walkable cable tray system. Fastening with truss-head bolts M6 x 12 in the base perforation.

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 strips with a maximum compartment size of 220 mm should be used.

St FT SO

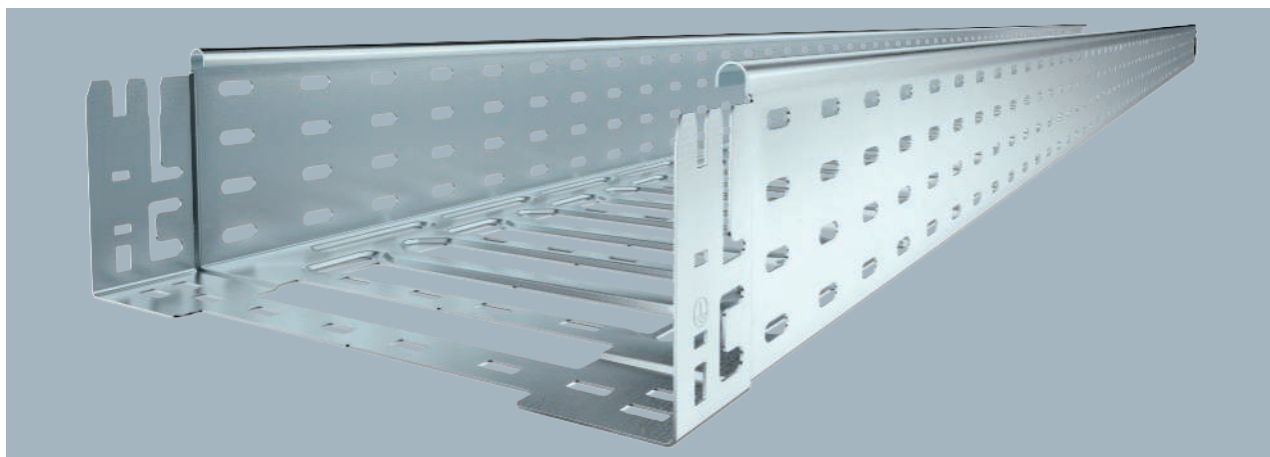
Straight connector FT SOMY

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.



Straight connectors as internal connectors to connect cable ladders and fittings of 110 mm side height.
The adjustable connector ensures the continuity of the equipotential bonding.

Cable tray MKS-Magic® 110

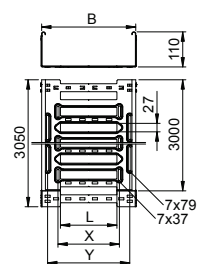


Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKSM 110 FS	100	1.00	3	236.819	6059156
MKSM 115 FS	150	1.00	3	274.426	6059158
MKSM 120 FS	200	1.00	3	293.114	6059160
MKSM 130 FS	300	1.00	3	331.081	6059162
MKSM 140 FS	400	1.00	3	369.049	6059164
MKSM 150 FS	500	1.00	3	406.983	6059166
MKSM 160 FS	600	1.00	3	444.983	6059168

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm. The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components. From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

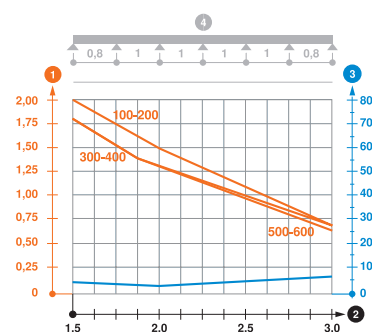
Type	Length mm	Dim. B mm	Usable cross-section cm ²	Dim. L mm	Dim. x mm	Dim. y mm
MKSM 110 FS	3050	100	108	30	—	62
MKSM 115 FS	3050	150	161	30	46	112
MKSM 120 FS	3050	200	218	80	96	162
MKSM 130 FS	3050	300	328	180	196	262
MKSM 140 FS	3050	400	438	280	296	362
MKSM 150 FS	3050	500	548	380	396	462
MKSM 160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

Dimensions



	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

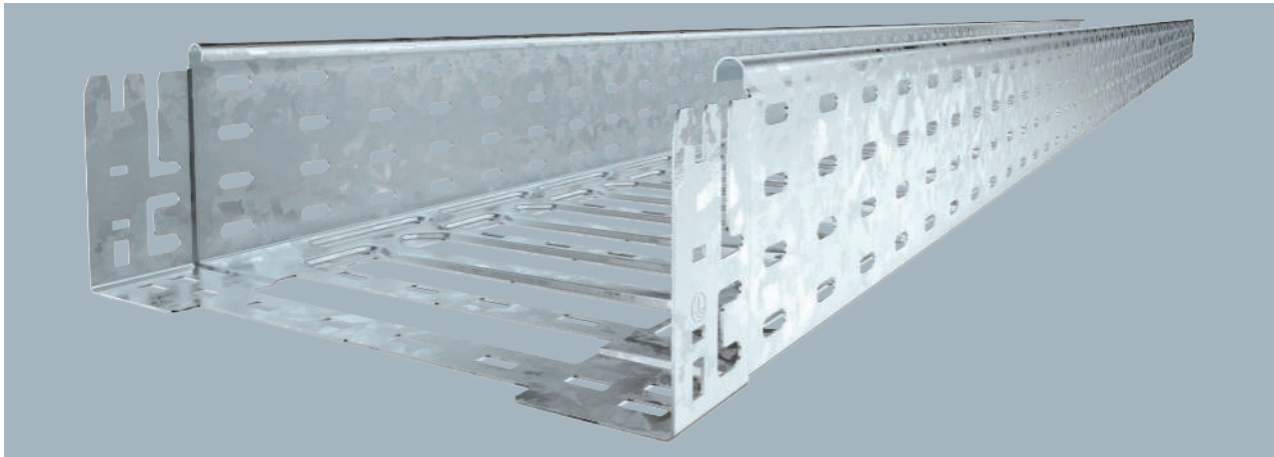


Load diagram, cable tray, type MKSM 110

- 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

St FT

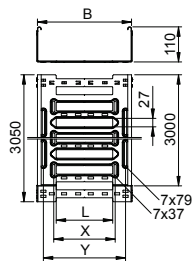
Cable tray MKS-Magic® 110



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm. The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components. From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

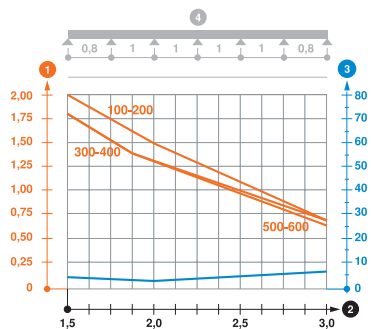
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKSM 110 FT	100	1.00	3	260.327	6059173
MKSM 115 FT	150	1.00	3	301.672	6059175
MKSM 120 FT	200	1.00	3	322.229	6059177
MKSM 130 FT	300	1.00	3	363.967	6059179
MKSM 140 FT	400	1.00	3	405.737	6059181
MKSM 150 FT	500	1.00	3	447.442	6059183
MKSM 160 FT	600	1.00	3	489.180	6059185

Dimensions



Type	Length mm	Dim. B mm	Usable Dim. cross-section cm²	Dim. L mm	Dim. x mm	Dim. y mm	Dimension mm
MKSM 110 FT	3050	100	108	30	-	62	
MKSM 115 FT	3050	150	161	30	46	112	
MKSM 120 FT	3050	200	218	80	96	162	
MKSM 130 FT	3050	300	328	180	196	262	
MKSM 140 FT	3050	400	438	280	296	362	
MKSM 150 FT	3050	500	548	380	396	462	
MKSM 160 FT	3050	600	655	480	496	562	

Load



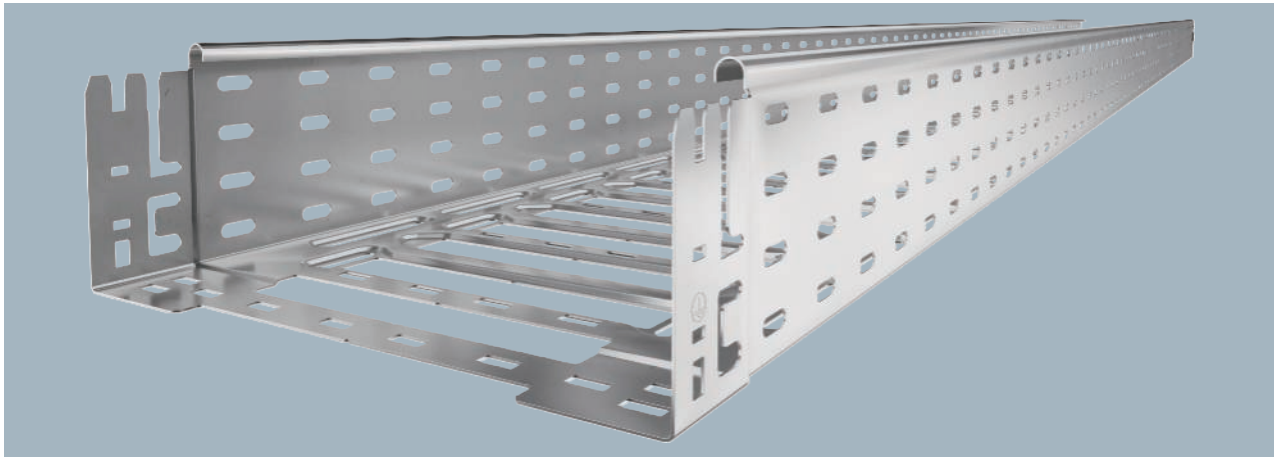
Type	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
MKSM 110 FT	2	1.5	0.7
MKSM 115 FT	2	1.5	0.7
MKSM 120 FT	2	1.5	0.7
MKSM 130 FT	1.8	1.3	0.7
MKSM 140 FT	1.8	1.3	0.7
MKSM 150 FT	1.8	1.3	0.65
MKSM 160 FT	1.8	1.3	0.65

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® 110

A2 2B

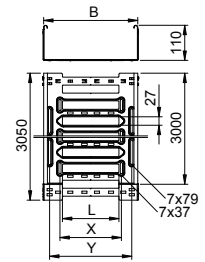


Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKSM 110 A2	100	1.00	3	240.767	6059190
MKSM 120 A2	200	1.00	3	298.000	6059194
MKSM 130 A2	300	1.00	3	336.600	6059196
MKSM 140 A2	400	1.00	3	375.200	6059198
MKSM 150 A2	500	1.00	3	413.767	6059200
MKSM 160 A2	600	1.00	3	452.400	6059202

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm. The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components. From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

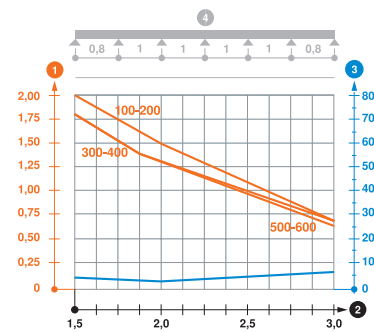
Type	Length mm	Dim. B mm	Usable cross-section cm ²	Dim. L mm	Dim. x mm	Dim. y mm
MKSM 110 A2	3050	100	108	30	—	62
MKSM 120 A2	3050	200	218	80	96	162
MKSM 130 A2	3050	300	328	180	196	262
MKSM 140 A2	3050	400	438	280	296	362
MKSM 150 A2	3050	500	548	380	396	462
MKSM 160 A2	3050	600	655	480	496	562

Dimensions



	1.5 m	2.0 m	3.0 m
	kN/m	kN/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

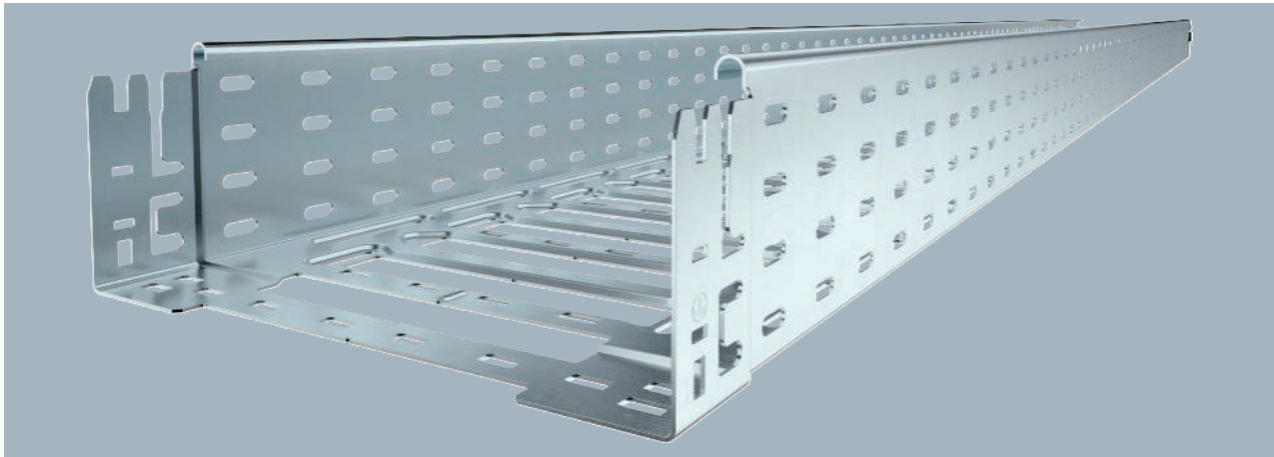


Load diagram, cable tray, type MKSM 110

- 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

St FS

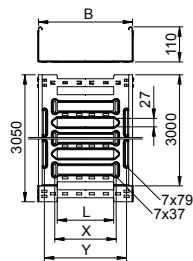
Cable tray SKS-Magic® 110



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm. The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components. From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

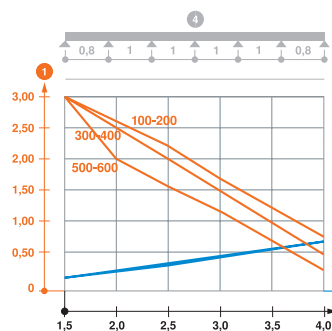
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
SKSM 110 FS	100	1.50	3	353.114	6059614
SKSM 115 FS	150	1.50	3	407.213	6059618
SKSM 120 FS	200	1.50	3	434.754	6059618
SKSM 130 FS	300	1.50	3	490.819	6059620
SKSM 140 FS	400	1.50	3	546.885	6059622
SKSM 150 FS	500	1.50	3	602.950	6059624
SKSM 160 FS	600	1.50	3	667.278	6059626

Dimensions



Type	Length mm	Usable Dim. B mm	Usable Dim. cross-section cm ²	Dim. L mm	Dim. x mm	Dim. y mm	Dim. en-sion 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	

Load

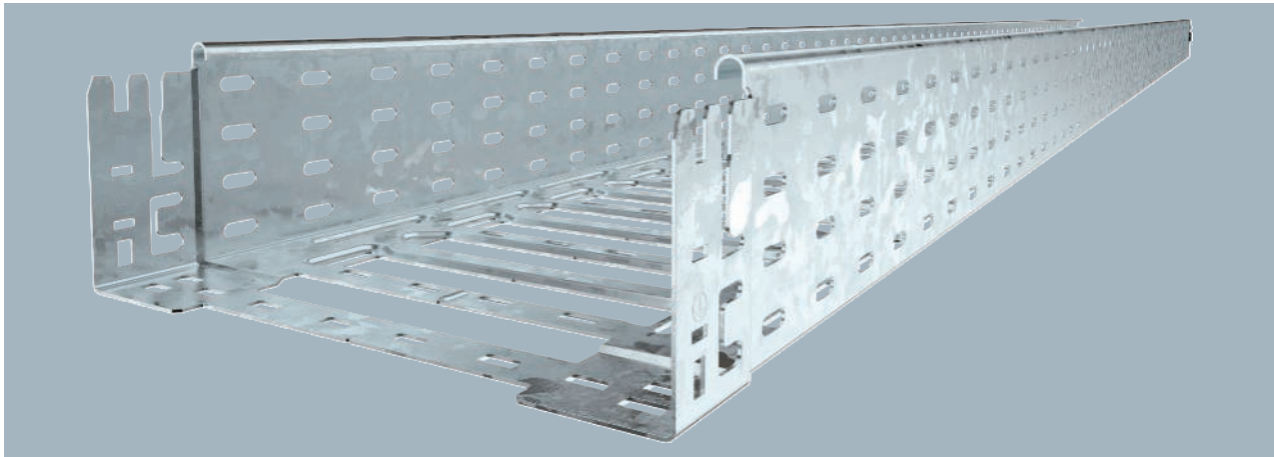


Type	1.5 m kN/m	3.0 m kN/m	4.0 m kN/m
SKSM 110 FS	3	1.7	0.8
SKSM 115 FS	3	1.7	0.8
SKSM 120 FS	3	1.7	0.8
SKSM 130 FS	3	1.5	0.5
SKSM 140 FS	3	1.5	0.5
SKSM 150 FS	3	1.2	0.3
SKSM 160 FS	3	1.2	0.3

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 SKS-Magic® 110

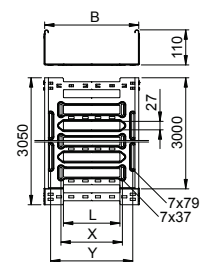


Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
SKSM 110 FT	100	1.50	3	374.426	6059631
SKSM 115 FT	150	1.50	3	431.803	6059633
SKSM 120 FT	200	1.50	3	460.983	6059635
SKSM 130 FT	300	1.50	3	520.327	6059637
SKSM 140 FT	400	1.50	3	580.000	6059639
SKSM 150 FT	500	1.50	3	639.344	6059641
SKSM 160 FT	600	1.50	3	711.508	6059643

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm. The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components. From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

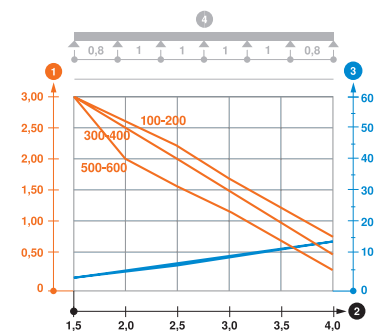
Type	Length mm	Usable Dim. B mm	cross- section cm ²	Dim. L mm	Dim. x mm	Dim. y mm
SKSM 110 FT	3050	100	108	30	—	62
SKSM 115 FT	3050	150	161	30	46	112
SKSM 120 FT	3050	200	218	80	96	162
SKSM 130 FT	3050	300	328	180	196	262
SKSM 140 FT	3050	400	438	280	296	362
SKSM 150 FT	3050	500	548	380	396	462
SKSM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

Dimensions



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

Load

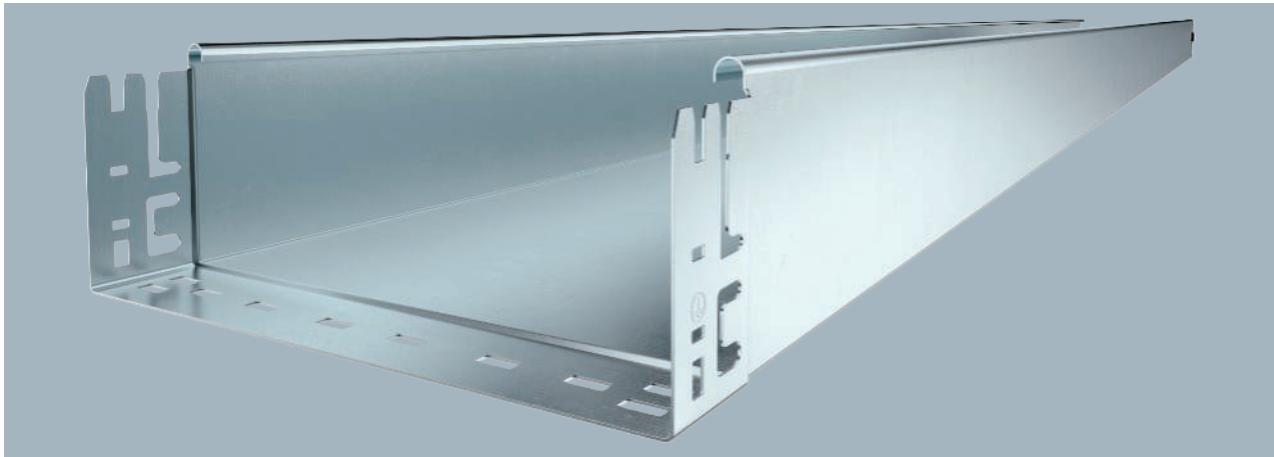


Load diagram, cable tray, type SKSM 110

- 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

St FS

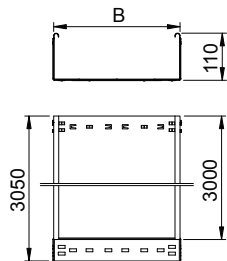
Cable tray MKS-Magic® 110, unperforated



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

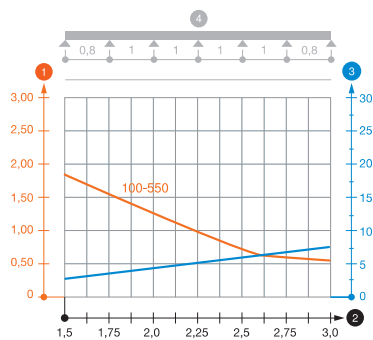
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKSMU 110 FS	100	1.00	3	269.672	6059382
MKSMU 115 FS	150	1.00	3	308.885	6059384
MKSMU 120 FS	200	1.00	3	348.032	6059386
MKSMU 130 FS	300	1.00	3	426.459	6059388
MKSMU 140 FS	400	1.00	3	504.918	6059390
MKSMU 150 FS	500	1.00	3	583.311	6059392
MKSMU 160 FS	600	1.00	3	661.770	6059394

Dimensions



Type	Length mm	Usable Dim. B mm	cross-section cm²
MKSMU 110 FS	3050	100	108
MKSMU 115 FS	3050	150	161
MKSMU 120 FS	3050	200	218
MKSMU 130 FS	3050	300	328
MKSMU 140 FS	3050	400	438
MKSMU 150 FS	3050	500	548
MKSMU 160 FS	3050	600	655

Load



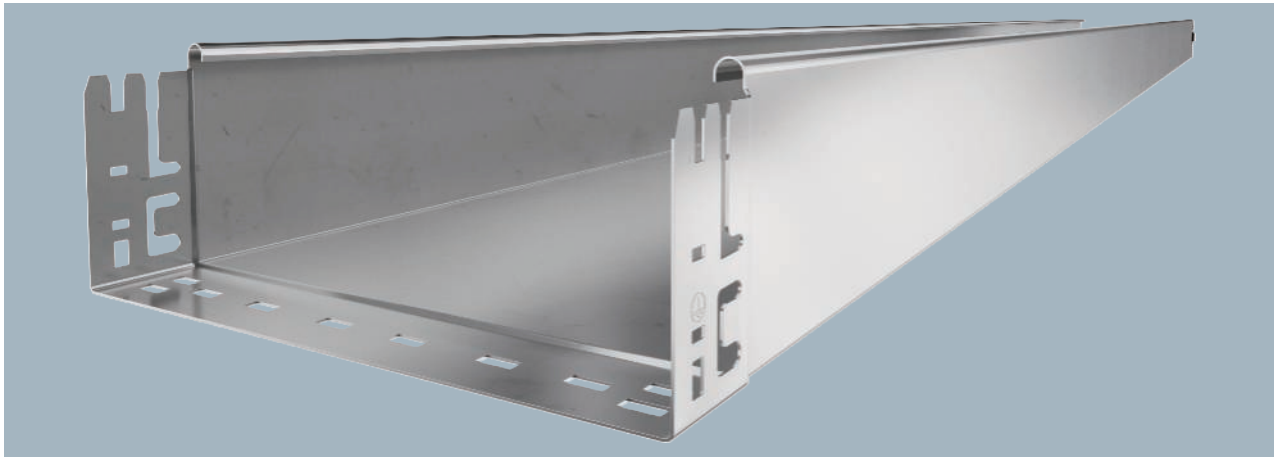
	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
MKSMU 110 FS	1.85	1.3	0.75	0.6
MKSMU 115 FS	1.85	1.3	0.75	0.6
MKSMU 120 FS	1.85	1.3	0.75	0.6
MKSMU 130 FS	1.85	1.3	0.75	0.6
MKSMU 140 FS	1.85	1.3	0.75	0.6
MKSMU 150 FS	1.85	1.3	0.75	0.6
MKSMU 160 FS	1.85	1.3	0.75	0.6

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® 110, unperforated

A2 2B

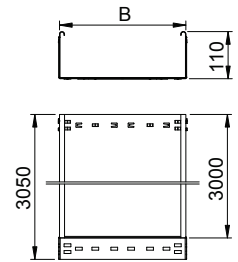


Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKSMU 110 A2	100	1.00	3	274.167	6059416
MKSMU 120 A2	200	1.00	3	353.833	6059420
MKSMU 130 A2	300	1.00	3	433.600	6059422
MKSMU 140 A2	400	1.00	3	513.333	6059424
MKSMU 150 A2	500	1.00	3	593.033	6059426
MKSMU 160 A2	600	1.00	3	672.800	6059428

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

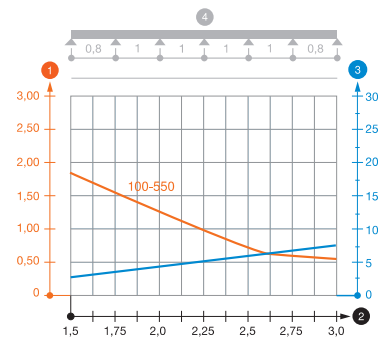
Type	Length mm	Dim. B mm	Usable cross-section cm ²
MKSMU 110 A2	3050	100	108
MKSMU 120 A2	3050	200	218
MKSMU 130 A2	3050	300	328
MKSMU 140 A2	3050	400	438
MKSMU 150 A2	3050	500	548
MKSMU 160 A2	3050	600	658

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 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

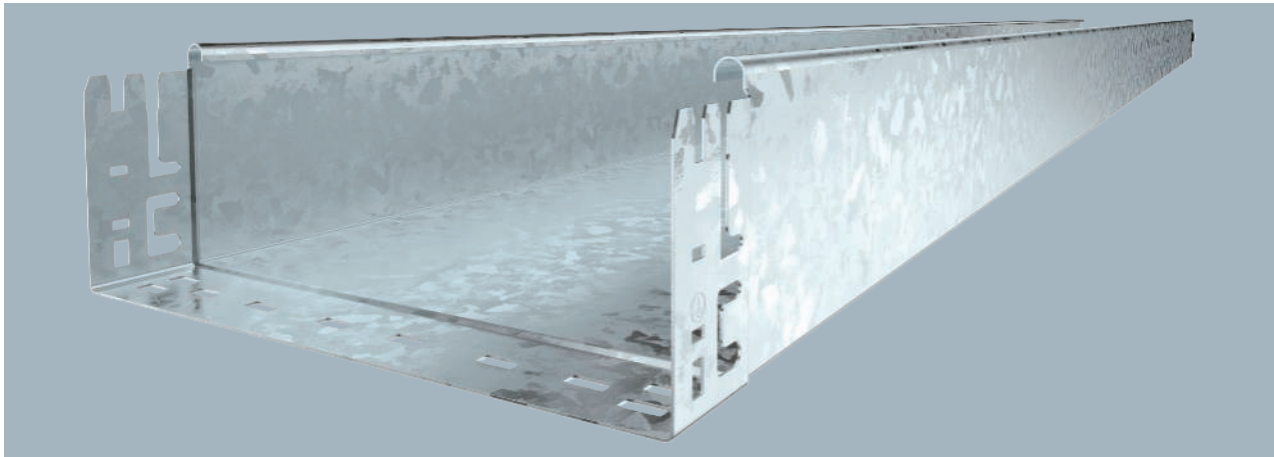


Load diagram, cable tray, type MKSMU 110

- 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

St FT

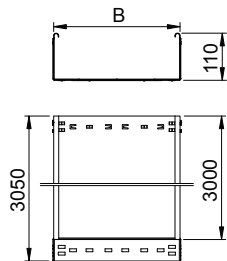
Cable tray MKS-Magic® 110, unperforated



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

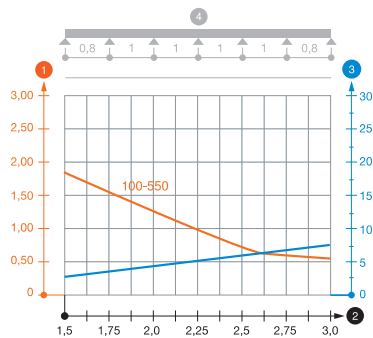
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKSMU 110 FT	100	1.00	3	296.459	6059399
MKSMU 115 FT	150	1.00	3	339.540	6059401
MKSMU 120 FT	200	1.00	3	382.590	6059403
MKSMU 130 FT	300	1.00	3	468.852	6059405
MKSMU 140 FT	400	1.00	3	555.081	6059407
MKSMU 150 FT	500	1.00	3	641.278	6059409
MKSMU 160 FT	600	1.00	3	727.540	6059411

Dimensions



Type	Length mm	Width mm	Usable cross-section cm²
MKSMU 110 FT	3050	100	108
MKSMU 115 FT	3050	150	161
MKSMU 120 FT	3050	200	218
MKSMU 130 FT	3050	300	328
MKSMU 140 FT	3050	400	438
MKSMU 150 FT	3050	500	548
MKSMU 160 FT	3050	600	655

Load

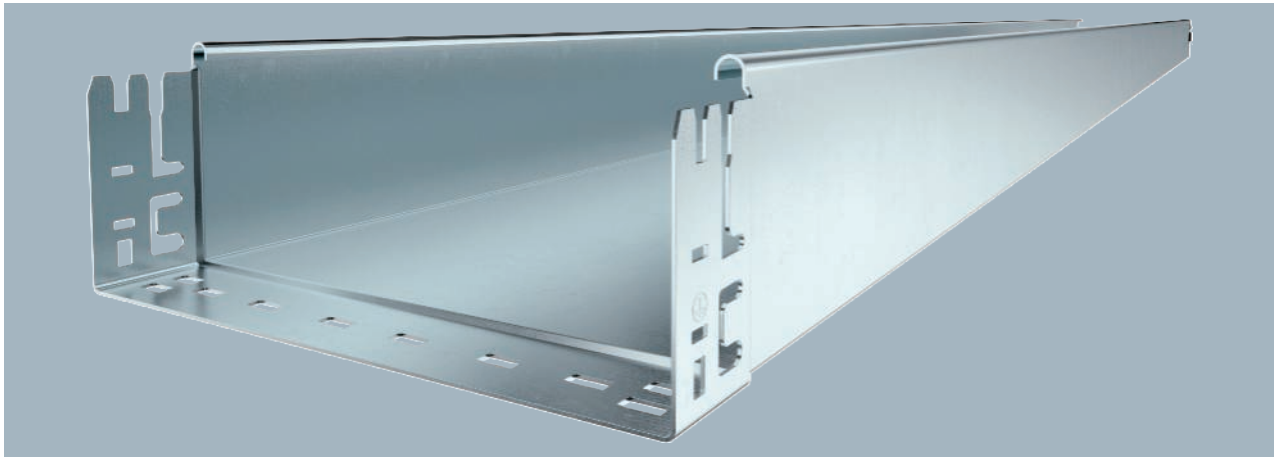


	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
MKSMU 110 FT	1.85	1.3	0.75	0.6
MKSMU 115 FT	1.85	1.3	0.75	0.6
MKSMU 120 FT	1.85	1.3	0.75	0.6
MKSMU 130 FT	1.85	1.3	0.75	0.6
MKSMU 140 FT	1.85	1.3	0.75	0.6
MKSMU 150 FT	1.85	1.3	0.75	0.6
MKSMU 160 FT	1.85	1.3	0.75	0.6

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® 110, unperforated

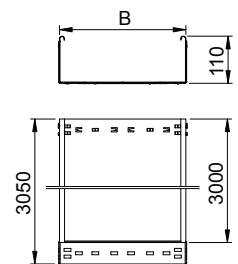


Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
SKSMU 110 FS	100	1.50	3	404.262	6059836
SKSMU 115 FS	150	1.50	3	463.049	6059838
SKSMU 120 FS	200	1.50	3	521.803	6059840
SKSMU 130 FS	300	1.50	3	639.442	6059842
SKSMU 140 FS	400	1.50	3	757.114	6059844
SKSMU 150 FS	500	1.50	3	874.721	6059846
SKSMU 160 FS	600	1.50	3	992.360	6059848

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

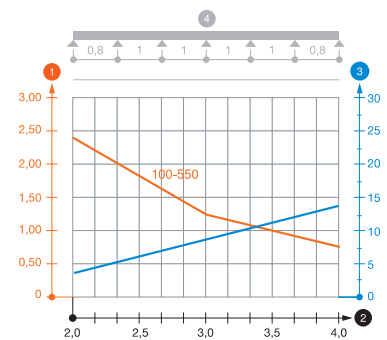
Type	Length mm	Dim. B mm	Usable cross-section cm ²
SKSMU 110 FS	3050	100	108
SKSMU 115 FS	3050	150	161
SKSMU 120 FS	3050	200	218
SKSMU 130 FS	3050	300	328
SKSMU 140 FS	3050	400	438
SKSMU 150 FS	3050	500	548
SKSMU 160 FS	3050	600	655

Dimensions



	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

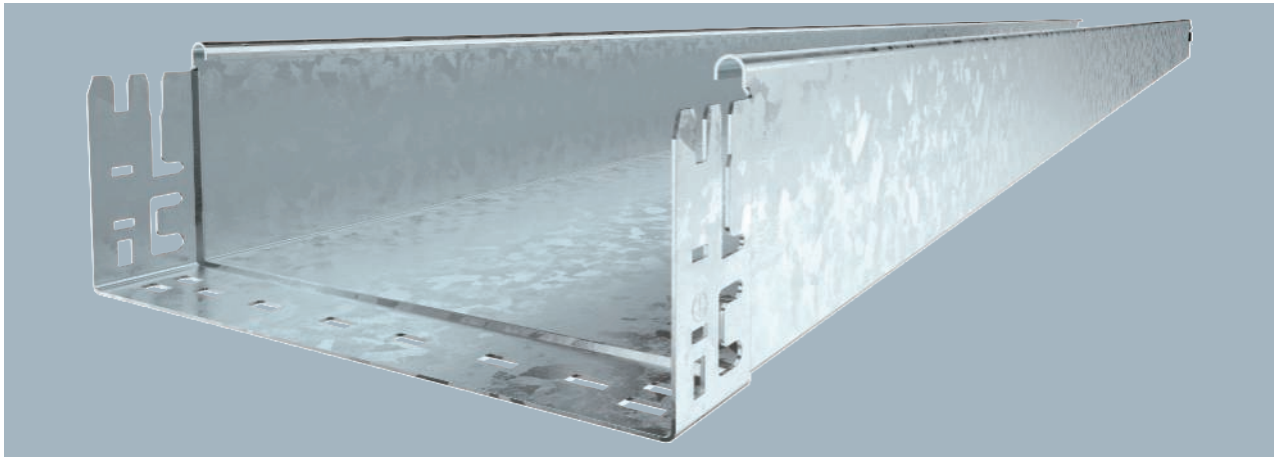


Load diagram, cable tray, type SKSMU 110

- 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

St FT

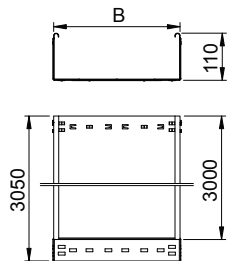
Cable tray SKS-Magic® 110, unperforated



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

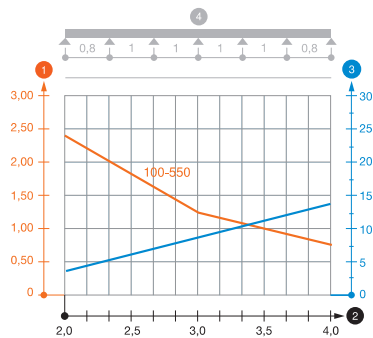
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
SKSMU 110 FT	100	1.50	3	431.049	6059853
SKSMU 115 FT	150	1.50	3	493.737	6059855
SKSMU 120 FT	200	1.50	3	556.360	6059857
SKSMU 130 FT	300	1.50	3	681.836	6059859
SKSMU 140 FT	400	1.50	3	807.311	6059861
SKSMU 150 FT	500	1.50	3	932.688	6059863
SKSMU 160 FT	600	1.50	3	1,058.163	6059865

Dimensions



Type	Length mm	Usable Dim. B mm	cross-section cm²
SKSMU 110 FT	3050	100	108
SKSMU 115 FT	3050	150	161
SKSMU 120 FT	3050	200	218
SKSMU 130 FT	3050	300	328
SKSMU 140 FT	3050	400	438
SKSMU 150 FT	3050	500	548
SKSMU 160 FT	3050	600	655

Load



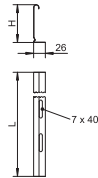
		1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
SKSMU 110 FT	3	2.4	1.2	0.8	
SKSMU 115 FT	3	2.4	1.2	0.8	
SKSMU 120 FT	3	2.4	1.2	0.8	
SKSMU 130 FT	3	2.4	1.2	0.8	
SKSMU 140 FT	3	2.4	1.2	0.8	
SKSMU 150 FT	3	2.4	1.2	0.8	
SKSMU 160 FT	3	2.4	1.2	0.8	

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 85

St FS DD

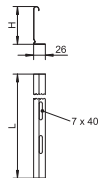
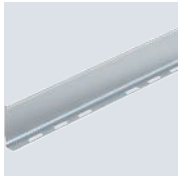


Type	Metal			Pack m	Weight kg/100 m	Item no.
	Dim. H	thick- ness	Dim. L			
TSG 85 FS	85	0.75	3000	3	70.233	6062114
TSG 85 DD	85	0.75	3000	3	70.300	6062331

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

Separating retainer 110

St FS DD

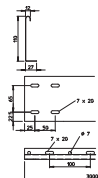


Type	Metal			Pack m	Weight kg/100 m	Item no.
	Dim. H	thick- ness	Dim. L			
TSG 110 FS	110	0.75	3000	3	85.000	6062122
TSG 110 DD	110	0.75	3000	3	85.000	6062335

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

Barrier strip 110

A2 2B

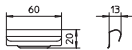


Type	Metal			Pack m	Weight kg/100 m	Item no.
	Dim. H	thick- ness	Dim. L			
TSG 110 A2	110	0.75	3000	3	90.684	6062255

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

Separating retainer connector

VA 2B

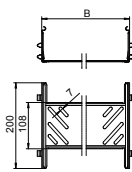
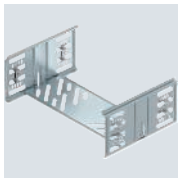


Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

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

Magic straight connector set 110

St FS DD



Type	Side height	Dim. B	Pack Piece	Weight kg/100 pc.	Item no.
KTSMV 110 FS	110	100	1	44.100	6069090
KTSMV 120 FS	110	200	1	50.800	6069094
KTSMV 130 FS	110	300	1	57.600	6069096
KTSMV 140 FS	110	400	1	64.300	6069098
KTSMV 150 FS	110	500	1	71.000	6069100
KTSMV 160 FS	110	600	1	77.800	6069102
KTSMV 110 DD	110	100	1	44.100	6069112
KTSMV 120 DD	110	200	1	50.800	6069116
KTSMV 130 DD	110	300	1	57.600	6069118
KTSMV 140 DD	110	400	1	64.300	6069120
KTSMV 150 DD	110	500	1	71.000	6069122
KTSMV 160 DD	110	600	1	77.800	6069124

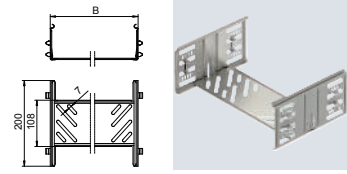
Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 110 mm.

The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

A2 2B

Magic straight connector set 110

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
KTSMV 110 A2	110	100	1	44.100	6069134
KTSMV 120 A2	110	200	1	50.800	6069138
KTSMV 130 A2	110	300	1	57.600	6069140
KTSMV 140 A2	110	400	1	64.300	6069142
KTSMV 150 A2	110	500	1	71.000	6069144
KTSMV 160 A2	110	600	1	77.800	6069146



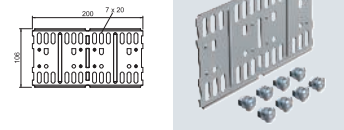
Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 110 mm.

The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

St FS FT

Straight and angle connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVL 110 FS	110	10	33.800	6067131
RLVL 110 FT	110	10	35.100	6067913

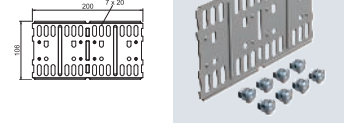


Straight and angle connector for cable trays and fittings with a side height of 110 mm. Including appropriate fastening material.

A2 2B

Straight and angle connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVL 110 A2	110	10	33.400	6067948

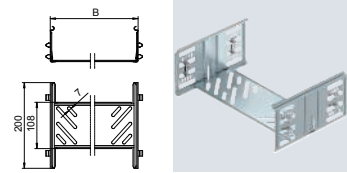


Straight and angle connector for cable trays and fittings with a side height of 110 mm.

St FS DD

Magic straight connector set 110

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
KTSMV 115 FS	110	150	1	48.500	6069092
KTSMV 115 DD	110	150	1	48.500	6069114



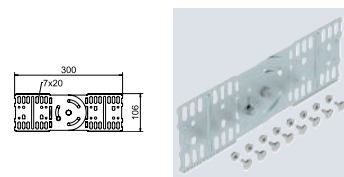
Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 110 mm.

The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

St FS FT

Adjustable connector 110

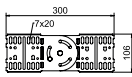
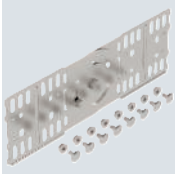
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 110 FS	110	10	61.700	7082037
RGV 110 FT	110	10	64.300	7082436



Adjustable connector for cable trays with a side height of 110 mm. Including appropriate fastening material.

Adjustable connector 110

A2 2B

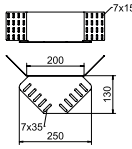
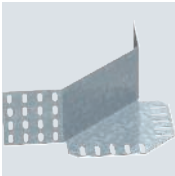


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 110 A2	110	4	61.700	7082479

Adjustable connector for cable trays with a side height of 110 mm.

Corner connector 110

St FS DD

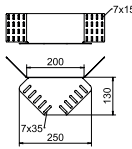
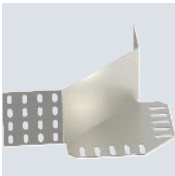


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 110 FS	110	10	72.000	6067999
REV 110 DD	110	1	72.000	6069339

Corner connector for cable trays with side height 110 mm.
Fastening materials should be ordered separately.

Corner connector 110

A2 2B

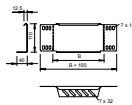
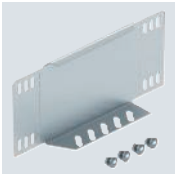


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 110 A2	110	5	75.000	6068049

Corner connector for cable trays with side height 110 mm.

Reducer/stop-end 110

St FS DD



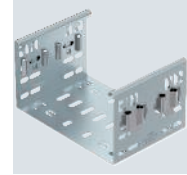
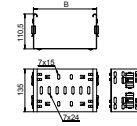
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 110 FS	110	100	1	16.400	7111096
RWEB 120 FS	110	200	1	29.000	7111207
RWEB 130 FS	110	300	1	40.700	7111304
RWEB 140 FS	110	400	1	52.900	7111428
RWEB 150 FS	110	500	1	64.800	7111509
RWEB 160 FS	110	600	1	71.000	7111740
RWEB 110 DD	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
RWEB 155 DD	110	550	1	70.700	7107560

Reducer/stop-end for cable trays with side height 110 mm.
From a width of 150 mm, the perforated lower flange is provided.
Including appropriate fastening material.

St DD

Magic 110 fitting connector

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	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

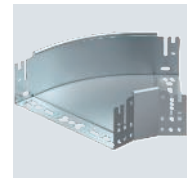
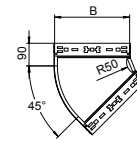


The fitting connector is compatible with cable tray types MKSM, MKSMU, SKSM and SKSMU.
 Magic straight connector for direct and screwless joining of Magic fittings with a side height of 110 mm.
 The straight connector is equipped with four brackets and can also be used for the direct connection with 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.

St FS FT

45° Magic bend 110

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 45 110 FS	110	100	1	70.500	6041750
RBM 45 115 FS	110	150	1	89.300	6041751
RBM 45 120 FS	110	200	1	109.900	6041752
RBM 45 130 FS	110	300	1	156.100	6041754
RBM 45 140 FS	110	400	1	206.500	6041756
RBM 45 150 FS	110	500	1	268.300	6041758
RBM 45 160 FS	110	600	1	337.700	6041760
RBM 45 110 FT	110	100	1	75.600	6041780
RBM 45 115 FT	110	150	1	95.800	6041781
RBM 45 120 FT	110	200	1	117.900	6041782
RBM 45 130 FT	110	300	1	167.400	6041784
RBM 45 140 FT	110	400	1	221.400	6041786
RBM 45 150 FT	110	500	1	287.700	6041788
RBM 45 160 FT	110	600	1	362.100	6041790

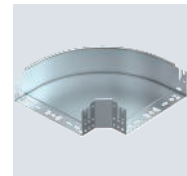
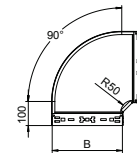


45° bend with quick connector system. For all cable tray types of 110 mm side height.

St FS FT

90° Magic bend 110

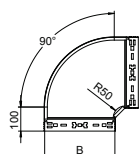
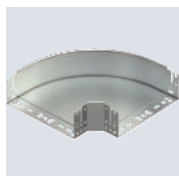
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 90 110 FS	110	100	1	90.900	6041840
RBM 90 115 FS	110	150	1	121.000	6041841
RBM 90 120 FS	110	200	1	154.900	6041842
RBM 90 130 FS	110	300	1	233.400	6041844
RBM 90 140 FS	110	400	1	323.600	6041846
RBM 90 150 FS	110	500	1	433.100	6041848
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



90° bend with quick connector system. For all cable tray types of 110 mm side height.

90° Magic bend 110

A2 2B

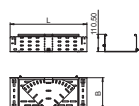
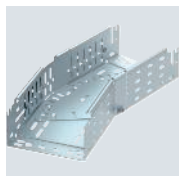


Type	Side height mm	Dim. B mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 90 110 A2	110	100		1	90.900	6041880
RBM 90 120 A2	110	200		1	154.900	6041882
RBM 90 130 A2	110	300		1	233.400	6041884
RBM 90 140 A2	110	400		1	323.600	6041886
RBM 90 150 A2	110	500		1	433.100	6041888
RBM 90 160 A2	110	600		1	558.000	6041890

90° bend with quick connector system. For all cable tray types of 110 mm side height.

Magic 110 bend, variable

St FS FT

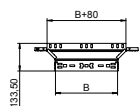
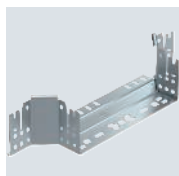


Type	Side height mm	Dim. B mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
RBMV 110 FS	110	100	340	1	103.900	6040680
RBMV 115 FS	110	150	420	1	152.200	6040682
RBMV 120 FS	110	200	490	1	209.200	6040684
RBMV 130 FS	110	300	640	1	357.800	6040686
RBMV 140 FS	110	400	820	1	548.400	6040688
RBMV 150 FS	110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

Magic bend 0°–90°, variable, with quick connector system. For all cable tray types of 110 mm side height.

Magic 110 add-on tee

St FS FT



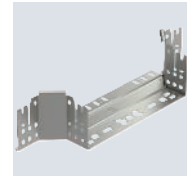
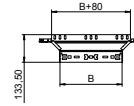
Type	Side height mm	Dim. B mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
RAAM 110 FS	110	100		1	53.700	6041920
RAAM 115 FS	110	150		1	60.000	6041921
RAAM 120 FS	110	200		1	66.300	6041922
RAAM 130 FS	110	300		1	79.200	6041924
RAAM 140 FS	110	400		1	92.200	6041926
RAAM 150 FS	110	500		1	105.100	6041928
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

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

A2 2B

Magic 110 add-on tee

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
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

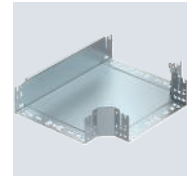
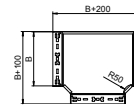


Add-on tee with quick connector system. For all cable tray types of 110 mm side height.

St FS FT

Magic 110 tee

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	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

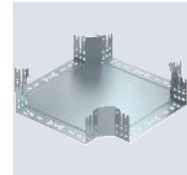
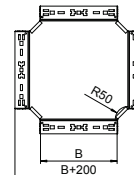


Tee with quick connector system. For all cable tray types of 110 mm side height.

St FS FT

Magic 110 cross-over

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	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

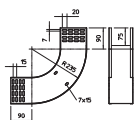


Cross-over with quick connector system. For all cable tray types of 110 mm side height.

Industriestationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExpert_03291) / 2023/05/05 11:26:04 11:26:04

90° vertical bend, rising, 110

St FS FT



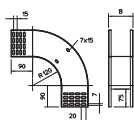
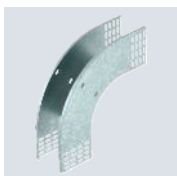
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 110 S FS	110	100	1	120.100	7007310
RBV 120 S FS	110	200	1	151.300	7007314
RBV 130 S FS	110	300	1	182.400	7007318
RBV 140 S FS	110	400	1	213.600	7007322
RBV 150 S FS	110	500	1	244.800	7007326
RBV 160 S FS	110	600	1	274.000	7007333
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 155 S FT	110	550	1	260.400	7007331
RBV 160 S FT	110	600	1	299.000	7007334

90° rising vertical bend, for all cable tray types of 110 mm side height.

The vertical bend is pushed over the end of the cable tray and screwed tight. Fastening materials should be ordered separately.

90° vertical bend, falling 110

St FS FT



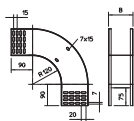
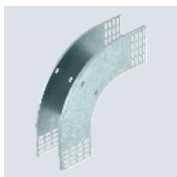
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 110 F FS	110	100	1	106.300	7007350
RBV 120 F FS	110	200	1	124.000	7007354
RBV 130 F FS	110	300	1	141.600	7007358
RBV 140 F FS	110	400	1	159.200	7007362
RBV 150 F FS	110	500	1	176.900	7007366
RBV 160 F FS	110	600	1	193.000	7007373
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 160 F FT	110	600	1	210.000	7007374

90° vertical bend, falling, for all cable tray types of 110 mm side height.

The vertical bend is pushed over the end of the cable tray and screwed tight. Fastening materials should be ordered separately.

90° vertical bend, falling 110

St FS FT



Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 115 F FS	110	150	1	114.000	7007352
RBV 155 F FS	110	550	1	185.700	7007370
RBV 115 F FT	110	150	1	124.000	7007353
RBV 155 F FT	110	550	1	185.700	7007371

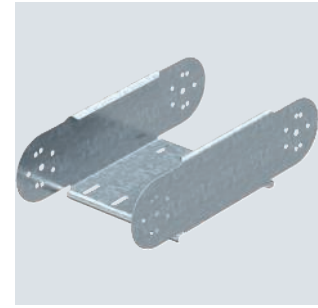
90° vertical bend, falling, for all cable tray types of 110 mm side height.

The vertical bend is pushed over the end of the cable tray and screwed tight. Fastening materials should be ordered separately.

St FS FT

Adjustable bend element, vertical 110

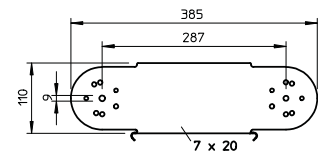
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBEV 110 FS	110	1	96.500	7005628
RGBEV 120 FS	110	1	116.800	7005644
RGBEV 130 FS	110	1	137.200	7005660
RGBEV 140 FS	110	1	157.500	7005687
RGBEV 150 FS	110	1	177.900	7005709
RGBEV 160 FS	110	1	175.000	7005723
RGBEV 110 FT	110	1	103.400	7077106
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	179.800	7077505
RGBEV 160 FT	110	1	186.000	7077972



Adjustable bend element, vertical, for all cable tray types with a side height of 110 mm.
 RGV 110 adjustable connectors should be ordered separately and in the appropriate quantity.

Type	Width mm	Metal 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 160 FS	600	1.00

Dimensions

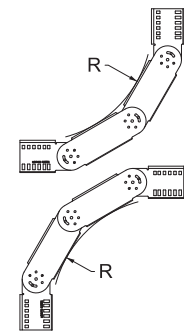


Radius table

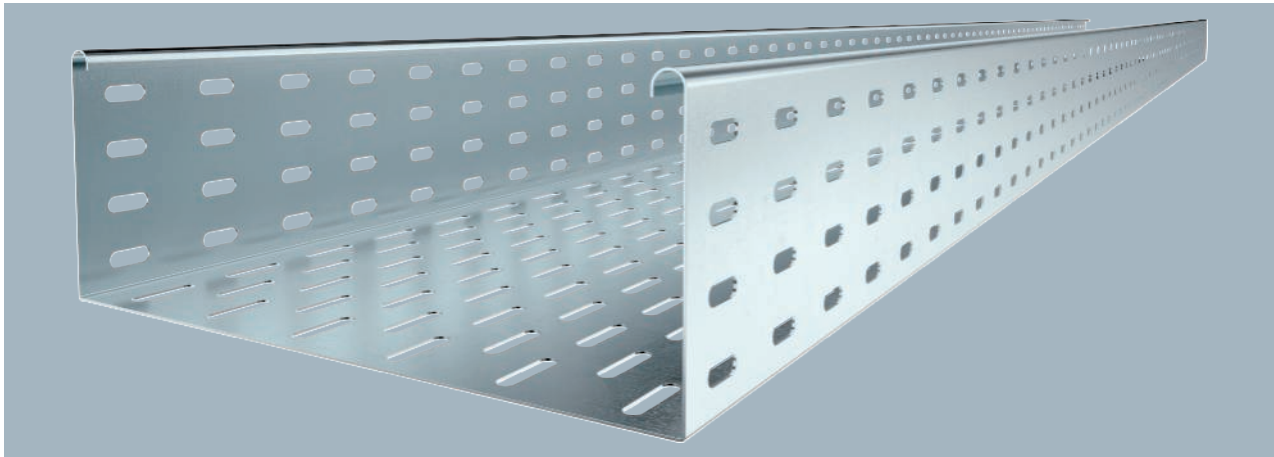
Quantity of elements	Radius
1	Approx. 300 mm
2	Approx. 450 mm
3	Approx. 600 mm
4	Approx. 750 mm
5	Approx. 900 mm

Please order two RGV 110 adjustable connectors separately.

Installation



Cable tray MKS 110



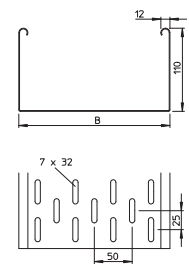
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKS 110 FS	100	1.00	3	267.700	6060102
MKS 120 FS	200	1.00	3	308.500	6060196
MKS 130 FS	300	1.00	3	373.900	6060307
MKS 140 FS	400	1.00	3	463.000	6060404
MKS 150 FS	500	1.00	3	528.333	6060412
MKS 155 FS	550	1.00	3	536.700	6060528

Including connector, type RLVL 110.

MKS 110 = medium-duty cable tray system with a side height of 110 mm.

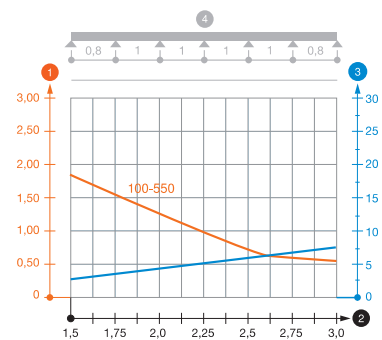
Type	Length mm	Dim. B mm	Usable cross-section cm ²
MKS 110 FS	3000	100	108
MKS 120 FS	3000	200	218
MKS 130 FS	3000	300	328
MKS 140 FS	3000	400	438
MKS 150 FS	3000	500	548
MKS 155 FS	3000	550	603

Dimensions



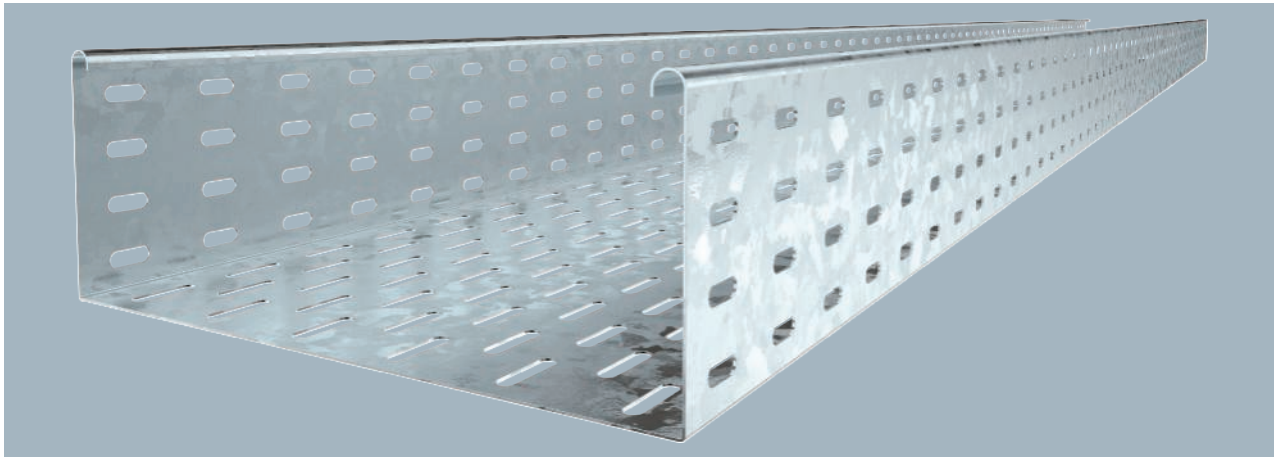
	1.5 m	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/m	kN/m
MKS 110 FS	1.85	1.3	0.75	0.6
MKS 120 FS	1.85	1.3	0.75	0.6
MKS 130 FS	1.85	1.3	0.75	0.6
MKS 140 FS	1.85	1.3	0.75	0.6
MKS 150 FS	1.85	1.3	0.75	0.6
MKS 155 FS	1.85	1.3	0.75	0.6

Load



Load diagram, cable tray, type MKS 110

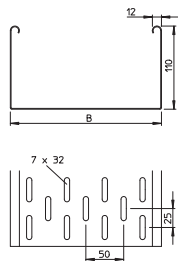
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



The cable tray is fastened to the bracket with screws, type FRS M6 x 12.
MKS 110 = medium-duty cable tray system with a side height of 110 mm.

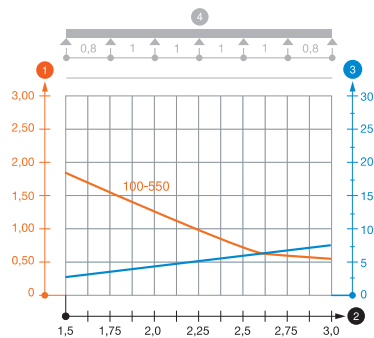
Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
MKS 110 FT	100	1.00	3	268.900	6060609
MKS 120 FT	200	1.00	3	340.600	6060625
MKS 130 FT	300	1.00	3	407.000	6060641
MKS 140 FT	400	1.00	3	484.000	6060676

Dimensions



Type	Length mm	Usable Dim. cross- section B mm	Usable Dim. cross- section cm ²
MKS 110 FT	3000	100	110
MKS 120 FT	3000	200	220
MKS 130 FT	3000	300	330
MKS 140 FT	3000	400	440

Load

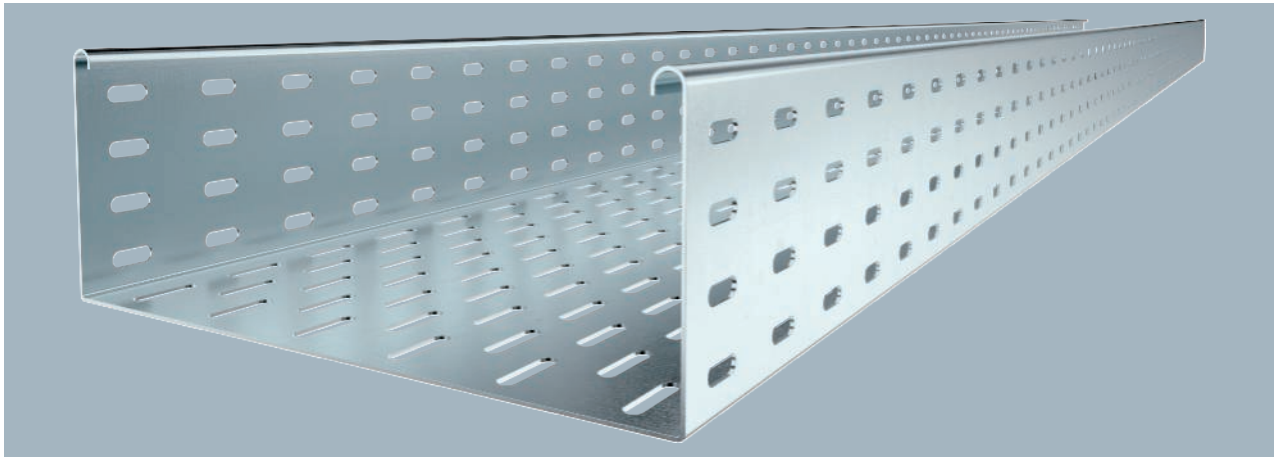


	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
MKS 110 FT	1.85	1.3	0.75	0.6
MKS 120 FT	1.85	1.3	0.75	0.6
MKS 130 FT	1.85	1.3	0.75	0.6
MKS 140 FT	1.85	1.3	0.75	0.6

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

Cable tray SKS 110

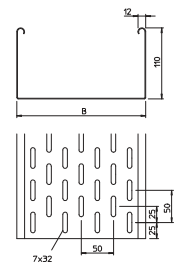


Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
SKS 110 FS	100	1.50	3	386.000	6061109
SKS 120 FS	200	1.50	3	486.340	6061206
SKS 130 FS	300	1.50	3	584.000	6061303
SKS 140 FS	400	1.50	3	681.670	6061400
SKS 150 FS	500	1.50	3	779.670	6061508
SKS 155 FS	550	1.50	3	830.000	6061559

FS version includes connector, type RLVL 110.
SKS 110 = heavy-duty cable tray system with 110 mm side height.

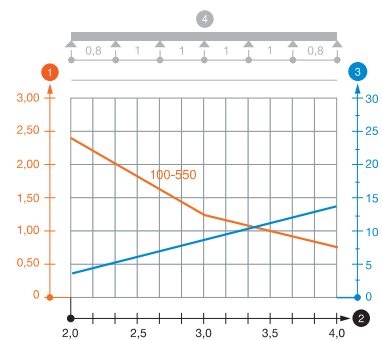
Type	Length mm	Dim. B mm	Usable cross-section cm ²
SKS 110 FS	3000	100	108
SKS 120 FS	3000	200	218
SKS 130 FS	3000	300	328
SKS 140 FS	3000	400	438
SKS 150 FS	3000	500	548
SKS 155 FS	3000	550	603

Dimensions



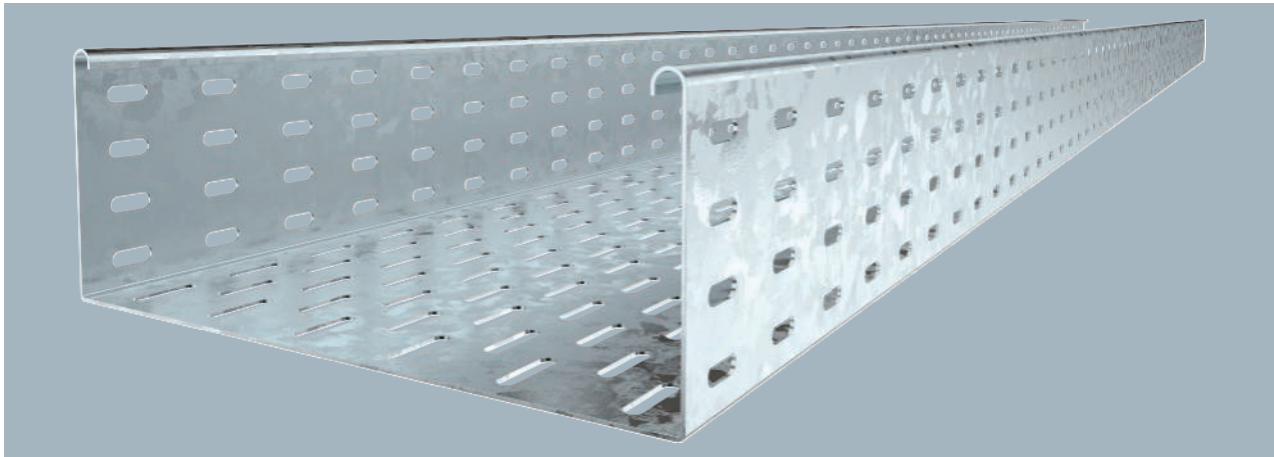
	1.5 m	2.0 m	3.0 m	4.0 m
	kN/m	kN/m	kN/m	kN/m
SKS 110 FS	3	2.4	1.2	0.8
SKS 120 FS	3	2.4	1.2	0.8
SKS 130 FS	3	2.4	1.2	0.8
SKS 140 FS	3	2.4	1.2	0.8
SKS 150 FS	3	2.4	1.2	0.8
SKS 155 FS	3	2.4	1.2	0.8

Load



Load diagram, cable tray, type SKS 110

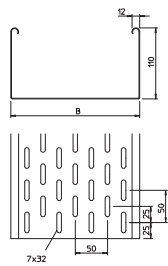
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



SKS 110 = heavy-duty cable tray system with 110 mm side height.

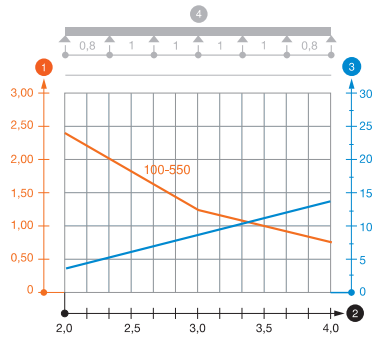
Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
SKS 110 FT	100	1.50	3	388.680	6061605
SKS 120 FT	200	1.50	3	494.000	6061621
SKS 130 FT	300	1.50	3	598.340	6061656
SKS 140 FT	400	1.50	3	697.340	6061672
SKS 150 FT	500	1.50	3	807.000	6061702
SKS 155 FT	550	1.50	3	856.000	6061729

Dimensions



Type	Length mm	Dim. B mm	Usable cross- section cm ²
SKS 110 FT	3000	100	108
SKS 120 FT	3000	200	218
SKS 130 FT	3000	300	328
SKS 140 FT	3000	400	438
SKS 150 FT	3000	500	548
SKS 155 FT	3000	550	603

Load

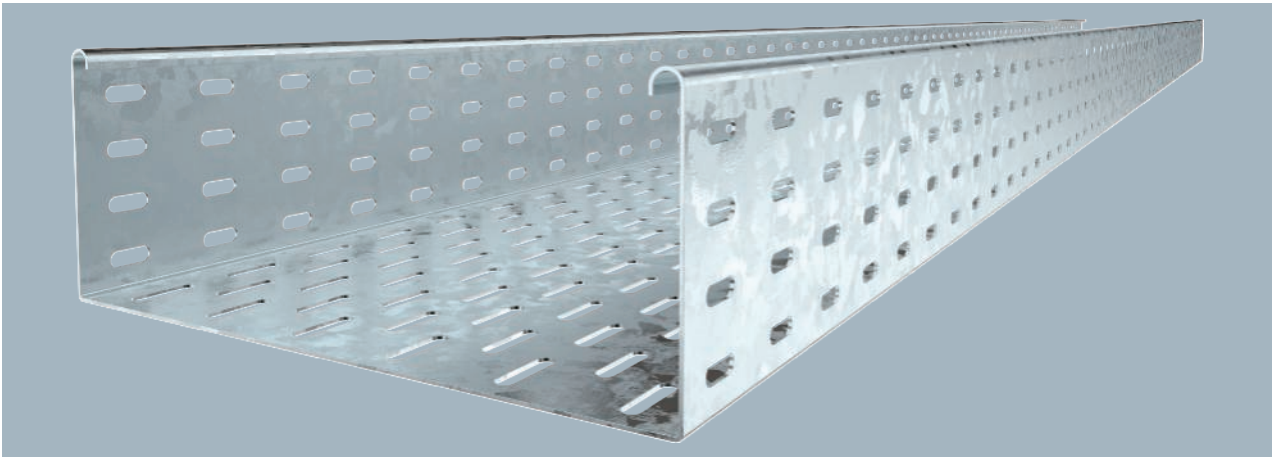


		1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
SKS 110 FT	3	2.4	1.2	0.8	
SKS 120 FT	3	2.4	1.2	0.8	
SKS 130 FT	3	2.4	1.2	0.8	
SKS 140 FT	3	2.4	1.2	0.8	
SKS 150 FT	3	2.4	1.2	0.8	
SKS 155 FT	3	2.4	1.2	0.8	

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 SKS 110

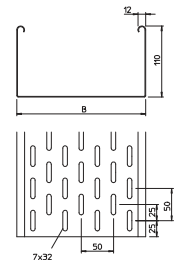


Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
SKS 160 FT	600	1.50	3	912.670	6061733

SKS 110 = heavy-duty cable tray system with 110 mm side height.

Type	Length mm	Dim. B mm	Usable cross- section cm ²
SKS 160 FT	3000	600	658

Dimensions

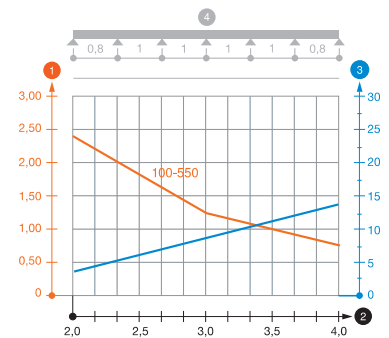


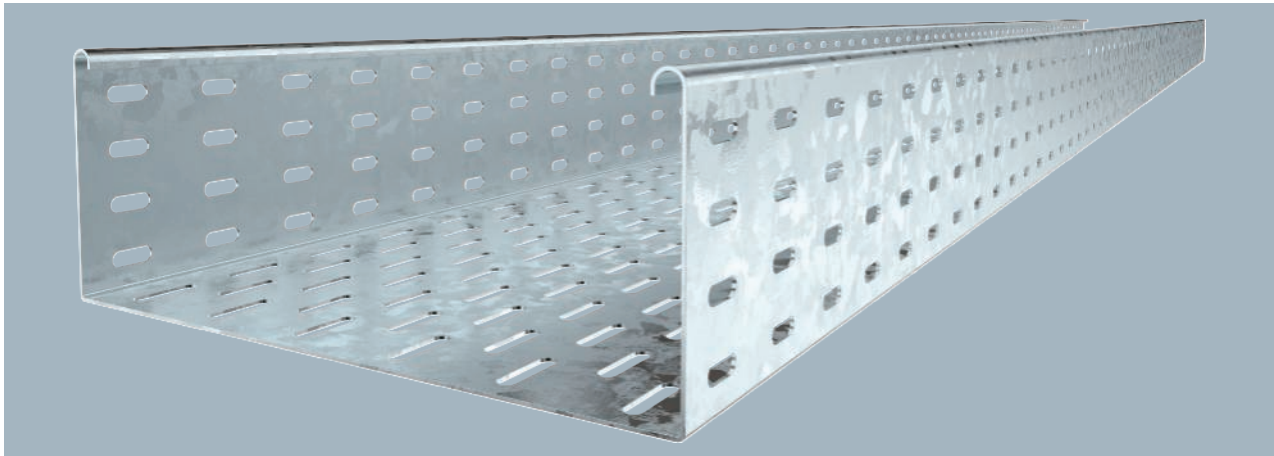
	1.5 m	2.0 m	3.0 m	4.0 m
SKS 160 FT	3	2.4	1.2	0.8

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

Load

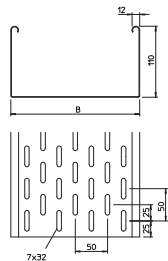




The cable tray is fastened to the bracket with bolts, type FRS M6 x 12. The surface coating is a coating created in a single-dip method with extra-high zinc thicknesses.
SKS 110 = Heavy-duty cable tray system with 110 mm side height.

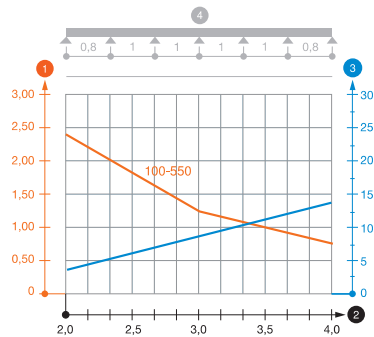
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
SKS 130 FT SO	300	1.50	3	618.670	7196025

Dimensions



Type	Length mm	Usable Dim. cross-section B mm cm ²
SKS 130 FT SO	3000	300 328

Load



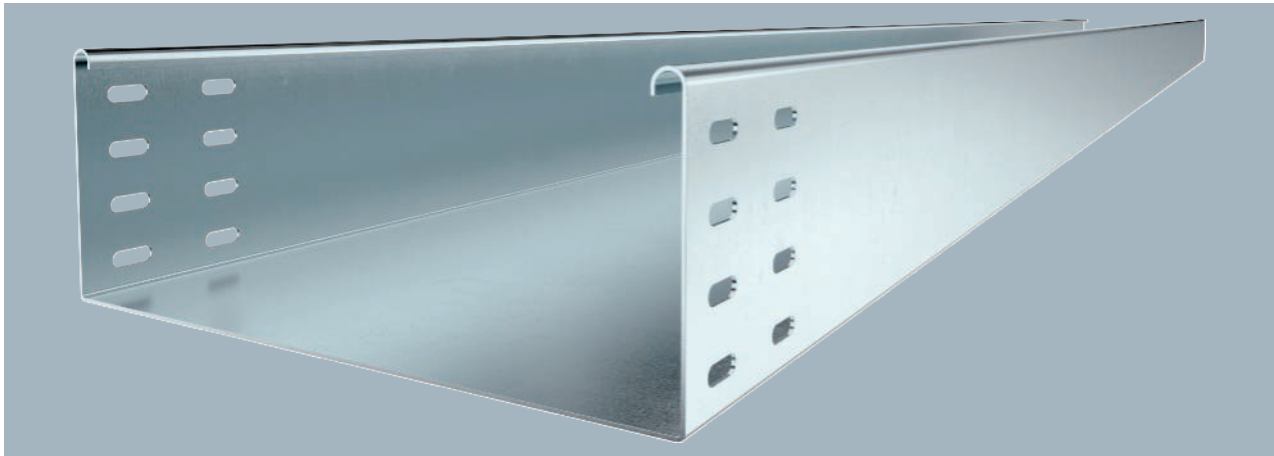
SKS 130 FT SO	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
3	2.4	1.2	0.8	

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 110

St FS

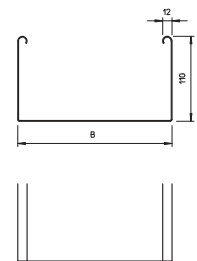


Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
SKSU 110 FS	100	1.50	3	404.000	6063403
SKSU 120 FS	200	1.50	3	520.000	6063438
SKSU 130 FS	300	1.50	3	637.000	6063454
SKSU 140 FS	400	1.50	3	754.700	6063470
SKSU 150 FS	500	1.50	3	872.000	6063497
SKSU 155 FS	550	1.50	3	935.340	6063500

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.

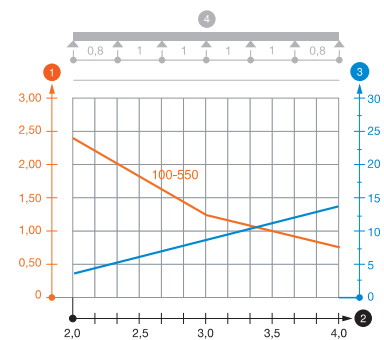
Type	Length mm	Dim. B mm	Usable cross- section cm ²
SKSU 110 FS	3000	100	108
SKSU 120 FS	3000	200	218
SKSU 130 FS	3000	300	328
SKSU 140 FS	3000	400	438
SKSU 150 FS	3000	500	548
SKSU 155 FS	3000	550	603

Dimensions



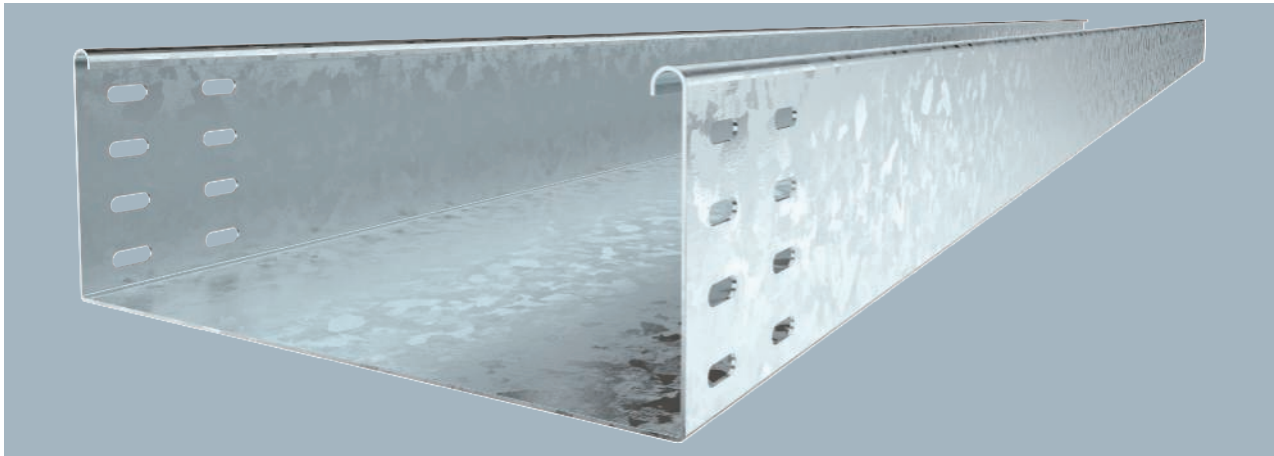
	1.5 m	2.0 m	3.0 m	4.0 m
	kN/m	kN/m	kN/m	kN/m
SKSU 110 FS	3	2.4	1.2	0.8
SKSU 120 FS	3	2.4	1.2	0.8
SKSU 130 FS	3	2.4	1.2	0.8
SKSU 140 FS	3	2.4	1.2	0.8
SKSU 150 FS	3	2.4	1.2	0.8
SKSU 155 FS	3	2.4	1.2	0.8

Load



Load diagram, cable tray, type SKSU 110

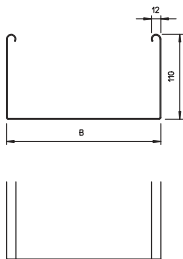
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.
SKS 110 = heavy-duty cable tray system, unperforated, with 110 mm side height.

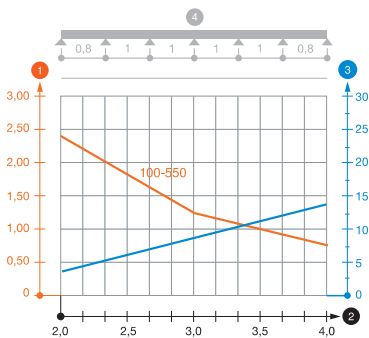
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
SKSU 110 FT	100	1.50	3	406.700	6064795
SKSU 120 FT	200	1.50	3	551.340	6064833
SKSU 130 FT	300	1.50	3	694.000	6064884
SKSU 140 FT	400	1.50	3	822.670	6064922
SKSU 150 FT	500	1.50	3	924.670	6064965
SKSU 155 FT	550	1.50	3	991.670	6064973

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm ²
SKSU 110 FT	3000	100	108
SKSU 120 FT	3000	200	218
SKSU 130 FT	3000	300	328
SKSU 140 FT	3000	400	438
SKSU 150 FT	3000	500	548
SKSU 155 FT	3000	550	605

Load



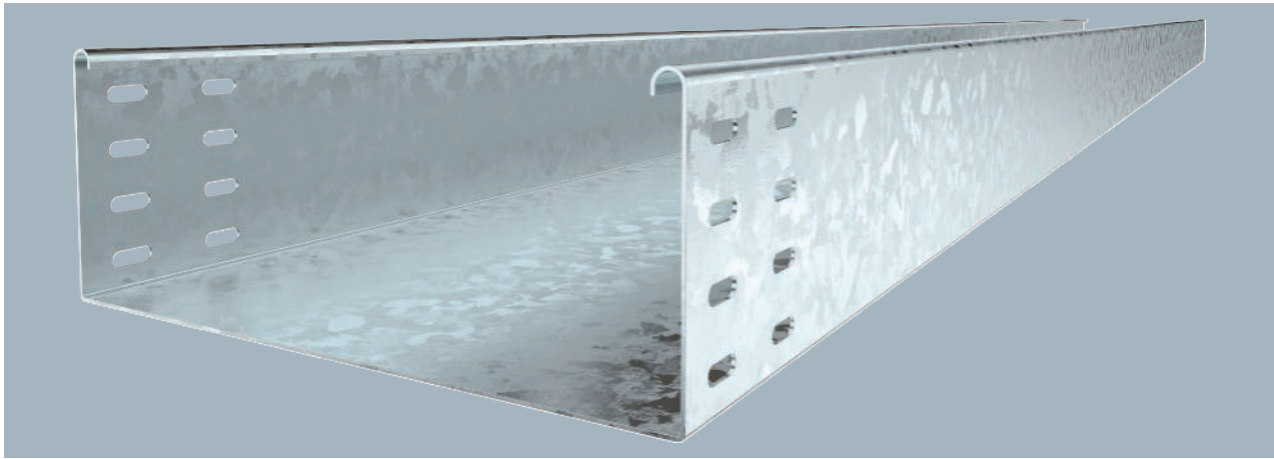
	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
SKSU 110 FT	3	2.4	1.2	0.8
SKSU 120 FT	3	2.4	1.2	0.8
SKSU 130 FT	3	2.4	1.2	0.8
SKSU 140 FT	3	2.4	1.2	0.8
SKSU 150 FT	3	2.4	1.2	0.8
SKSU 155 FT	3	2.4	1.2	0.8

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

Cable tray SKSU 110 FT SOMY

St FT SO

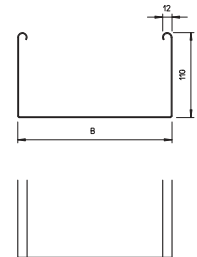


Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
SKSU 120 FT SO	200	1.50	3	551.340	7196012

The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity. SKS 110 = heavy-duty cable tray system, unperforated, with 110 mm side height.

Type	Length mm	Usable Dim. B mm	cross- section cm ²
SKSU 120 FT SO	3000	200	218

Dimensions

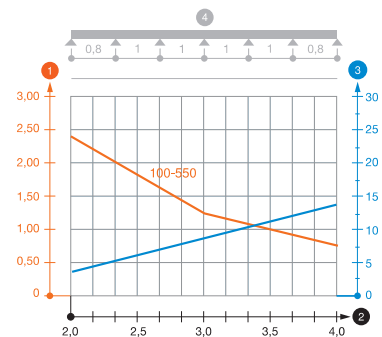


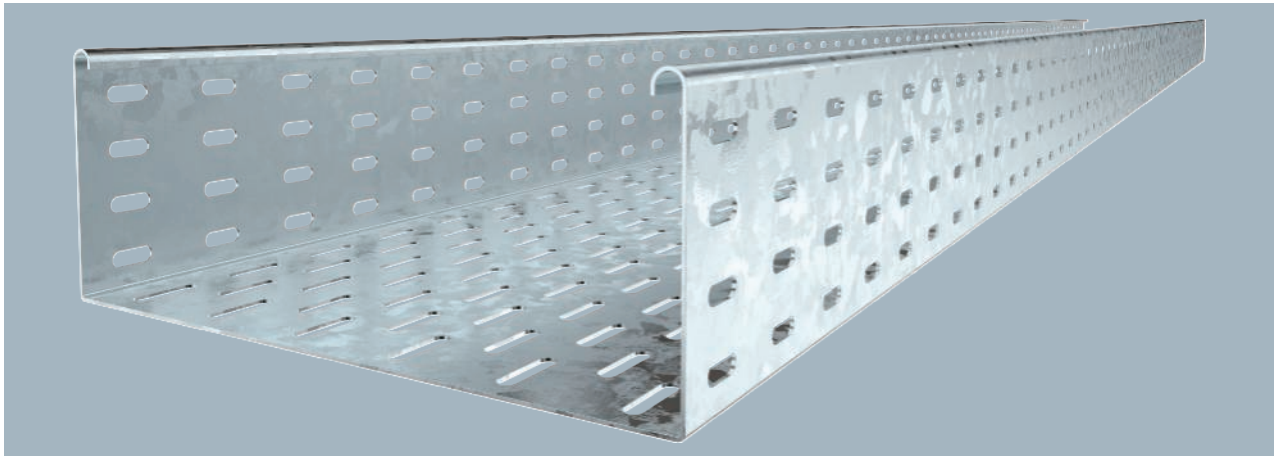
	1.5 m	2.0 m	3.0 m	4.0 m
	kN/m	kN/m	kN/m	kN/m
SKSU 120 FT SO	3	2.4	1.2	0.8

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

Load

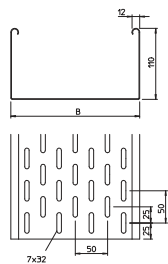




The cable tray is fastened to the bracket with bolts, type FRS M6 x 12. The surface coating is a coating created in a single-dip method with extra-high zinc thicknesses.
SKS 110 = Heavy-duty cable tray system with 110 mm side height.

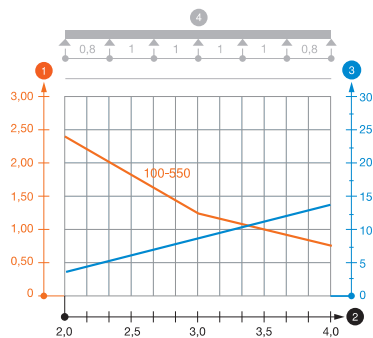
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
SKS 110 FT SO	100	1.50	3	402.000	7196008
SKS 120 FT SO	200	1.50	3	511.000	7196011
SKS 140 FT SO	400	1.50	3	726.700	7196016
SKS 150 FT SO	500	1.50	3	836.000	7196019
SKS 160 FT SO	600	1.50	3	942.400	7196026

Dimensions



Type	Length mm	Usable Dim. B mm	cross-section cm ²
SKS 110 FT SO	3000	100	108
SKS 120 FT SO	3000	200	218
SKS 140 FT SO	3000	400	438
SKS 150 FT SO	3000	500	548
SKS 160 FT SO	3000	600	655

Load



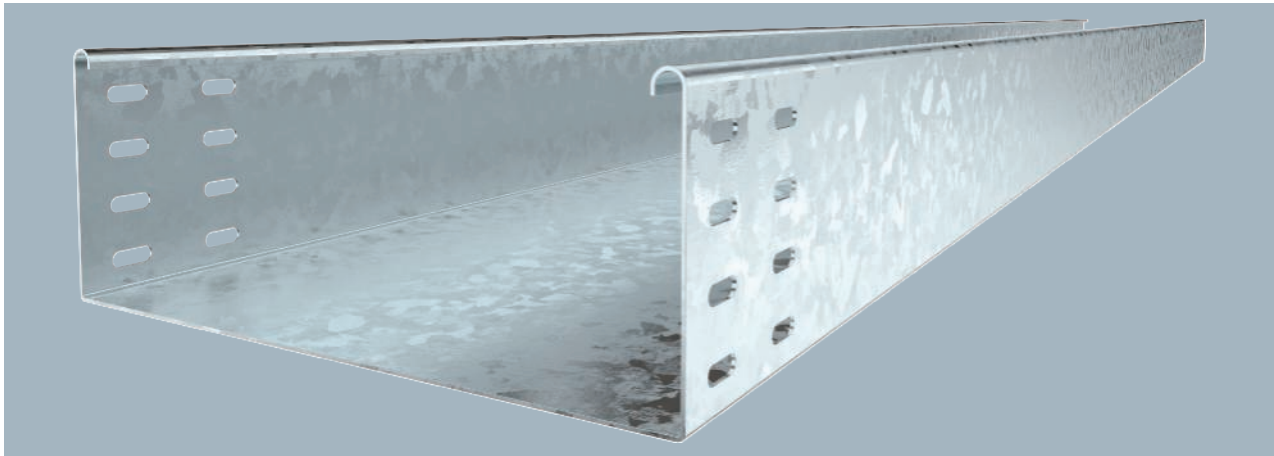
	1.5 m	2.0 m	3.0 m	4.0 m
	kN/m	kN/m	kN/m	kN/m
SKS 110 FT SO	3	2.4	1.2	0.8
SKS 120 FT SO	3	2.4	1.2	0.8
SKS 140 FT SO	3	2.4	1.2	0.8
SKS 150 FT SO	3	2.4	1.2	0.8
SKS 160 FT SO	3	2.4	1.2	0.8

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 110 FT SOMY

St FT SO

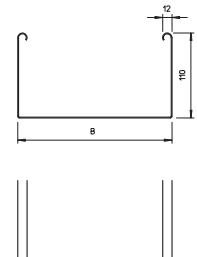


Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
SKSU 130 FT SO	300	1.50	3	694.000	7196013
SKSU 140 FT SO	400	1.50	3	822.700	7196014

The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity. SKS 110 = heavy-duty cable tray system, unperforated, with 110 mm side height.

Type	Length mm	Dim. B mm	Usable cross- section cm ²
SKSU 130 FT SO	3000	300	328
SKSU 140 FT SO	3000	400	438

Dimensions

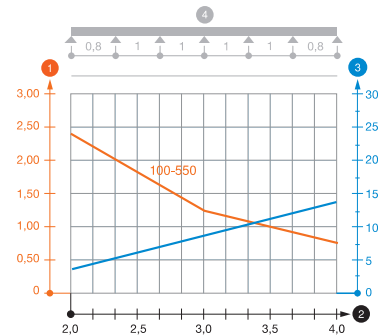


	1.5 m	2.0 m	3.0 m	4.0 m
	kN/m	kN/m	kN/m	kN/m
SKSU 130 FT SO	3	2.4	1.2	0.8
SKSU 140 FT SO	3	2.4	1.2	0.8

Load

Load diagram, cable tray, type SKSU 110

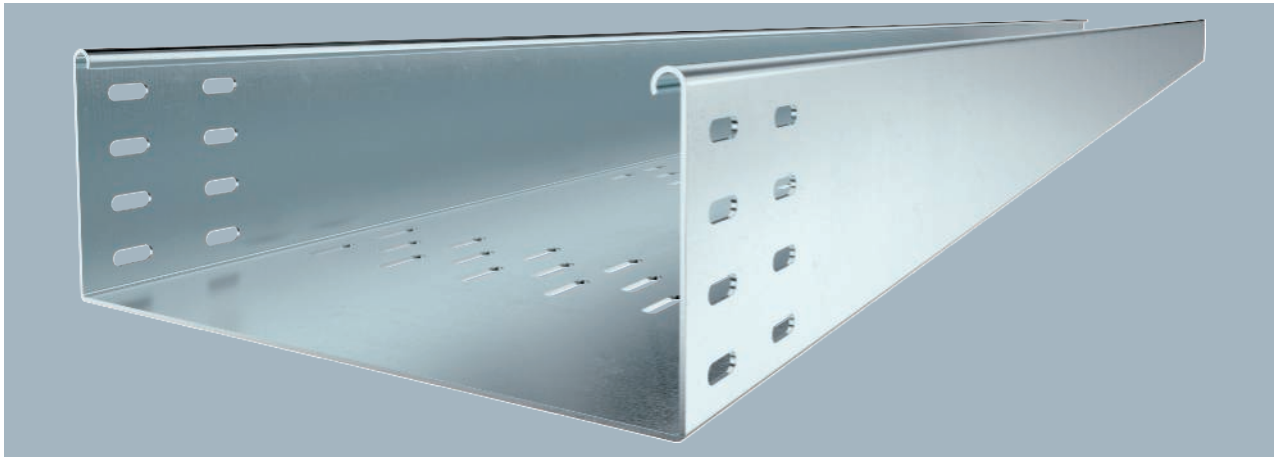
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



St FS



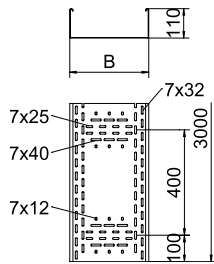
Cable tray BKRS 110



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	Side height mm	Dim. H mm	Dim. B mm	Dim. L mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
BKRS 1110 FS	110	110	100	3000	2.00	3	517.933	6061981
BKRS 1120 FS	110	110	200	3000	2.00	3	659.900	6061983
BKRS 1130 FS	110	110	300	3000	2.00	3	806.833	6061985
BKRS 1140 FS	110	110	400	3000	2.00	3	954.767	6061987
BKRS 1150 FS	110	110	500	3000	2.00	3	1,102.667	6061989
BKRS 1160 FS	110	110	600	3000	2.00	3	1,250.600	6061991

Dimensions

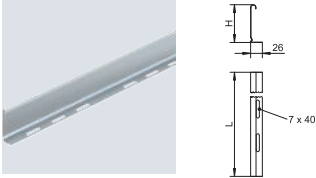


Type	Dim. L mm	Dim. B mm	Dim. H mm	Metal thickness mm	Usable cross-section cm ²
BKRS 1110 FS	3000	100	110	2.00	96
BKRS 1120 FS	3000	200	110	2.00	196
BKRS 1130 FS	3000	300	110	2.00	296
BKRS 1140 FS	3000	400	110	2.00	396
BKRS 1150 FS	3000	500	110	2.00	496
BKRS 1160 FS	3000	600	110	2.00	596

Industrieanstalten - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExpport_03291) / 2023/05/05 11:26:04 11:26:04

Separating retainer 85

St FS DD

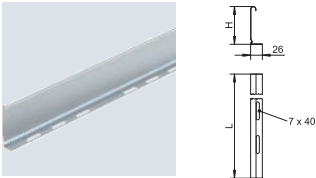


Type	Metal			Pack m	Weight kg/100 m	Item no.
	Dim. H mm	thick- ness mm	Dim. L mm			
TSG 85 FS	85	0.75	3000	3	70.233	6062114
TSG 85 DD	85	0.75	3000	3	70.300	6062331

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

Separating retainer 110

St FS DD

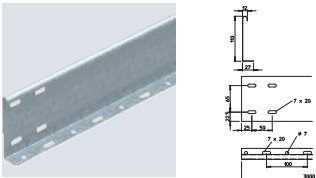


Type	Metal			Pack m	Weight kg/100 m	Item no.
	Dim. H mm	thick- ness mm	Dim. L mm			
TSG 110 FS	110	0.75	3000	3	85.000	6062122
TSG 110 DD	110	0.75	3000	3	85.000	6062335

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

TSG 110 FT SOMY

St FT SO

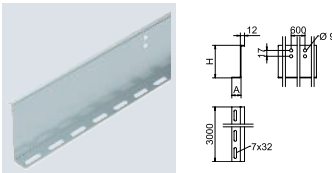


Type	Metal			Pack m	Weight kg/100 m	Item no.
	Dim. H mm	thick- ness mm	Dim. L mm			
TSG 110 FT SO	106	0.75	3000	3	101.667	7190498

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

Barrier strip, Z-shaped 110

St FS

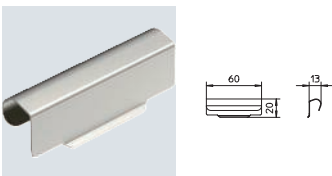


Type	Metal			Pack m	Weight kg/100 m	Item no.
	Dim. H mm	thick- ness mm	Length mm			
TSG110Z BKRS FS	110	2.00	3000	3	210.433	6062391

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 strips with a maximum compartment size of 220 mm should be used. Barrier strip for the BKRS walkable cable tray system. Fastening with truss-head bolts M6 x 12 in the base perforation.

Separating retainer connector

VA 2B



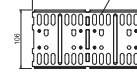
Type	Pack Piece	Weight kg/100 pc.	Item no.

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

St FS FT

Straight and angle connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVL 110 FS	110	10	33.800	6067131
RLVL 110 FT	110	10	35.100	6067913

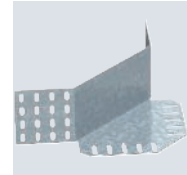
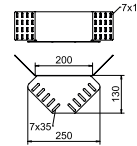


Straight and angle connector for cable trays and fittings with a side height of 110 mm. Including appropriate fastening material.

St FS DD

Corner connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 110 FS	110	10	72.000	6067999
REV 110 DD	110	1	72.000	6069339

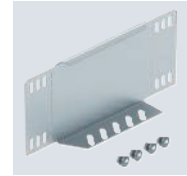
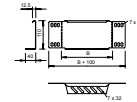


Corner connector for cable trays with side height 110 mm. Fastening materials should be ordered separately.

St FS DD

Reducer/stop-end 110

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	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 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 160 DD	110	600	1	71.000	7107562
RWEB 155 DD	110	550	1	70.700	7107560

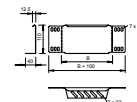


Reducer/stop-end for cable trays with side height 110 mm. From a width of 150 mm, the perforated lower flange is provided. Including appropriate fastening material.

St FT SO

Reducer/stop-end RWEB SO

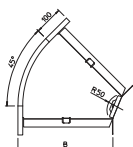
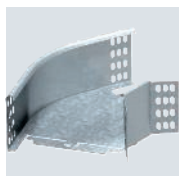
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 110 FT SO	110	100	1	25.300	7195351
RWEB 130 FT SO	110	300	1	44.400	7195355
RWEB 160 FT SO	110	600	1	92.300	7195362



Reducer/stop-end for cable trays with side height 110 mm. From a width of 150 mm, the perforated lower flange is provided. Including appropriate fastening material.

St FS FT

45° bend 110



Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 45 110 FS	110	100	1	70.000	7000634
RB 45 120 FS	110	200	1	100.000	7000650
RB 45 130 FS	110	300	1	135.000	7000677
RB 45 110 FT	110	100	1	75.000	7068115
RB 45 120 FT	110	200	1	110.000	7068212
RB 45 130 FT	110	300	1	145.000	7068328

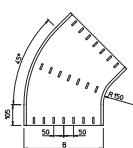
45° bend, horizontal, for all cable tray types of 110 mm side height.

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 110

St FS FT



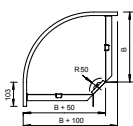
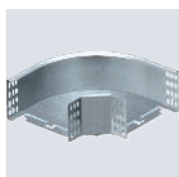
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 45 140 FS	110	400	1	340.000	7000685
RB 45 150 FS	110	500	1	400.000	7000707
RB 45 155 FS	110	550	1	470.000	7000715
RB 45 140 FT	110	400	1	365.000	7068409
RB 45 150 FT	110	500	1	425.000	7068506
RB 45 155 FT	110	550	1	500.000	7068557

45° bend, horizontal, for all cable tray types of 110 mm side height.

Fastening materials should be ordered separately.

90° bend 110

St FS FT



Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 110 FS	110	100	1	80.000	7001894
RB 90 120 FS	110	200	1	140.000	7001916
RB 90 130 FS	110	300	1	210.000	7001932
RB 90 110 FT	110	100	1	85.000	7127103
RB 90 120 FT	110	200	1	150.000	7127227
RB 90 130 FT	110	300	1	230.000	7127320

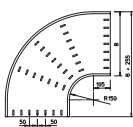
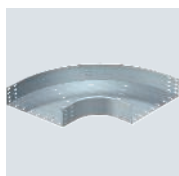
90° bend, horizontal, for all cable tray types of 110 mm side height.

The fitting is shipped in an unmounted state.

Including appropriate fastening material.

90° bend 110

St FS FT



Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 140 FS	110	400	1	540.000	7001940
RB 90 150 FS	110	500	1	700.000	7001967
RB 90 155 FS	110	550	1	780.000	7001975
RB 90 140 FT	110	400	1	575.000	7127413
RB 90 150 FT	110	500	1	750.000	7127499
RB 90 155 FT	110	550	1	840.000	7127545
RB 90 160 FT	110	600	1	855.000	7127627

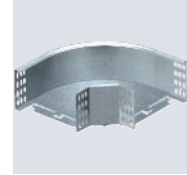
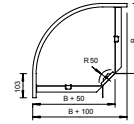
90° bend, horizontal, for all cable tray types of 110 mm side height.

Fastening materials should be ordered separately.

St FT SO

90° Magic bend 110 FT SOMY

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 110 FT SO	110	100	1	85.000	7196105
RB 90 120 FT SO	110	200	1	167.000	7196107
RB 90 130 FT SO	110	300	1	230.000	7196110
RB 90 140 FT SO	110	400	1	576.000	7196113
RB 90 150 FT SO	110	500	1	785.000	7196115
RB 90 160 FT SO	110	600	1	855.000	7196122

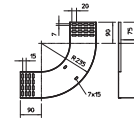


90° bend, horizontal, for all cable tray types of 110 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

St FS FT

90° vertical bend, rising, 110

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 115 S FS	110	150	1	135.000	7007312
RBV 155 S FS	110	550	1	260.400	7007330
RBV 115 S FT	110	150	1	147.000	7007313

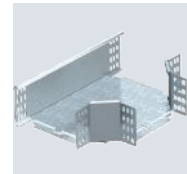
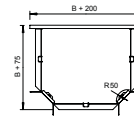


90° rising vertical bend, for all cable tray types of 110 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

St FS FT

T branch piece 110

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RT 110 FS	110	100	1	105.000	7003633
RT 120 FS	110	200	1	160.000	7003668
RT 130 FS	110	300	1	235.000	7003684
RT 110 FT	110	100	1	110.000	7119119
RT 120 FT	110	200	1	180.000	7119216
RT 130 FT	110	300	1	250.000	7119313

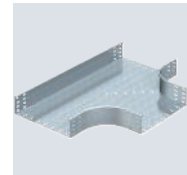
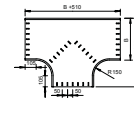


Horizontal T branch piece, for all cable tray types of 110 mm side height.
The fitting is shipped in an unmounted state. Including appropriate fastening material.

St FS FT

T branch piece 110

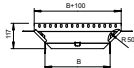
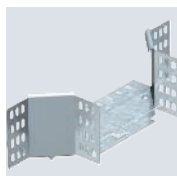
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RT 140 FS	110	400	1	770.000	7003692
RT 150 FS	110	500	1	950.000	7003714
RT 140 FT	110	400	1	825.000	7119402
RT 150 FT	110	500	1	950.000	7119496
RT 155 FT	110	550	1	1,100.000	7119550



Horizontal T branch piece, for all cable tray types of 110 mm side height.
Fastening materials should be ordered separately.

Add-on tee 110

St FS FT

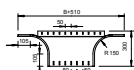
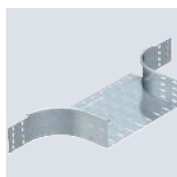


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 110 FS	110	100	1	45.000	7002637
RAA 120 FS	110	200	1	55.000	7002653
RAA 130 FS	110	300	1	70.000	7002688
RAA 110 FT	110	100	1	50.000	7123116
RAA 120 FT	110	200	1	60.000	7123213
RAA 130 FT	110	300	1	75.000	7123310

Add-on tee for horizontal and vertical use. For all cable tray types of 110 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

Add-on tee 110

St FS FT

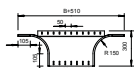
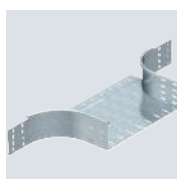


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 140 FS	110	400	1	250.000	7002696
RAA 150 FS	110	500	1	285.000	7002726
RAA 155 FS	110	550	1	300.000	7002734
RAA 140 FT	110	400	1	270.000	7123396
RAA 150 FT	110	500	1	310.000	7123507
RAA 155 FT	110	550	1	325.000	7123558

Add-on tee for horizontal and vertical use. For all cable tray types of 110 mm side height.
Fastening materials should be ordered separately.

Add-on tee 110 FT SOMY

St FT SO

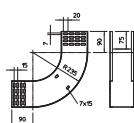


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 160 FT SO	110	600	1	337.000	7196178

Add-on tee for horizontal and vertical use. For all cable tray types of 110 mm side height.
Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

90° vertical bend, rising, 110

St FS FT



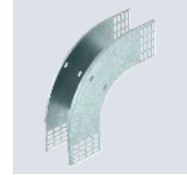
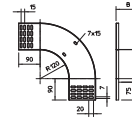
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 110 S FS	110	100	1	120.100	7007310
RBV 120 S FS	110	200	1	151.300	7007314
RBV 130 S FS	110	300	1	182.400	7007318
RBV 140 S FS	110	400	1	213.600	7007322
RBV 150 S FS	110	500	1	244.800	7007326
RBV 160 S FS	110	600	1	274.000	7007333
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 155 S FT	110	550	1	260.400	7007331
RBV 160 S FT	110	600	1	299.000	7007334

90° rising vertical bend, for all cable tray types of 110 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

St FS FT

90° vertical bend, falling 110

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	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 160 F FS	110	600	1	193.000	7007373
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 160 F FT	110	600	1	210.000	7007374

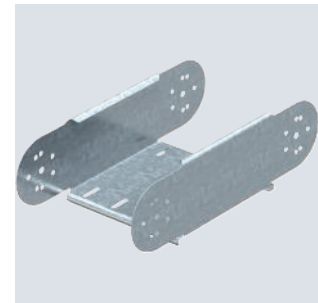


90° vertical bend, falling, for all cable tray types of 110 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

St FS FT

Adjustable bend element, vertical 110

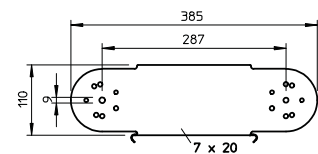
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBEV 110 FS	110	1	96.500	7005628
RGBEV 115 FS	110	1	106.700	7005636
RGBEV 120 FS	110	1	116.800	7005644
RGBEV 130 FS	110	1	137.200	7005660
RGBEV 140 FS	110	1	157.500	7005687
RGBEV 150 FS	110	1	177.900	7005709
RGBEV 155 FS	110	1	188.300	7005717
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	179.800	7077505
RGBEV 160 FT	110	1	186.000	7077972



Adjustable bend element, vertical, for all cable tray types with a side height of 110 mm.
RGV 110 adjustable connectors should be ordered separately and in the appropriate quantity.

Type	Width mm	Metal 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 155 FS	550	1.00
RGBEV 160 FS	600	1.00

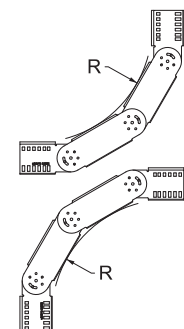
Dimensions



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 adjustable connectors separately.

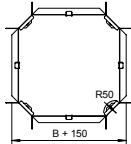
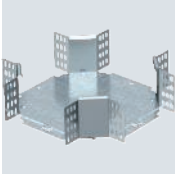
Installation



Industriestationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLExport_03291) / 2023/05/05 11:26:04 11:26:04

St FS FT

Cross-over 110

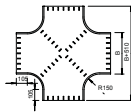
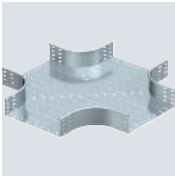


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RK 110 FS	110	100	1	110.000	7004648
RK 120 FS	110	200	1	160.000	7004664
RK 130 FS	110	300	1	220.000	7004680
RK 110 FT	110	100	1	120.000	7115113
RK 120 FT	110	200	1	175.000	7115210
RK 130 FT	110	300	1	240.000	7115318

Horizontal cross-over for all cable tray types of 110 mm side height.
The fitting is shipped in an unmounted state. Including appropriate fastening material.

Cross-over 110

St FS FT



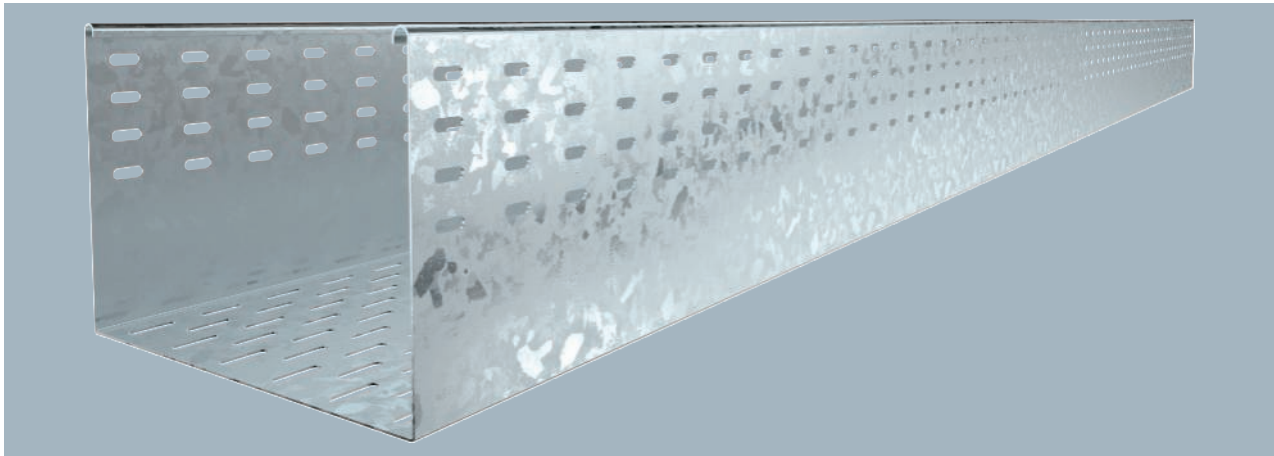
Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
RK 140 FS	110	400	1	906.000	7004699
RK 150 FS	110	500	1	1,100.000	7004710
RK 140 FT	110	400	1	960.000	7115407
RK 150 FT	110	500	1	1,180.000	7115504
RK 160 FT	110	600	1	1,340.000	7115564

Horizontal cross-over for all cable tray types of 110 mm side height.
Fastening materials should be ordered separately.



Cable tray MFR 200

St FT

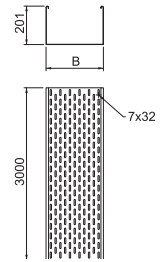


Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
MFR 220 FT	200	1.50	3	721.467	6083056
MFR 230 FT	300	1.50	3	825.767	6083060
MFR 240 FT	400	1.50	3	930.066	6083064

MFR = mobile radio tray
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

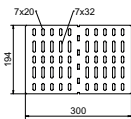
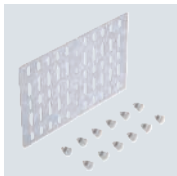
Type	Length mm	Dim. B mm	Usable Dim. cross- section cm ²
MFR 220 FT	3000	200	400
MFR 230 FT	3000	300	600
MFR 240 FT	3000	400	800

Dimensions



Straight and angle connector 200

St FT

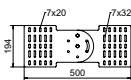


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LWVM 200 FT	200	2	113.200	6083200

Usable as a 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 200

St FT



Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
GVM 200 FT	200	2	216.600	6083210

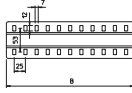
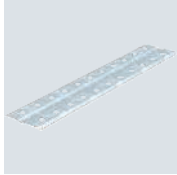
Adjustable connector for vertically rounded connections of cable trays (FT) with a side height of 200 mm.



Joint plates

St FS DD

Joint plate

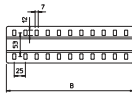
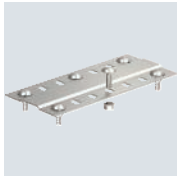


Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
SSLB 100 FS	100	20	7.700	7070205
SSLB 150 FS	150	20	14.000	7070209
SSLB 200 FS	200	20	18.500	7070213
SSLB 300 FS	300	20	29.200	7070217
SSLB 400 FS	400	20	38.200	7070221
SSLB 500 FS	500	20	49.000	7070225
SSLB 550 FS	550	20	53.500	7070229
SSLB 600 FS	600	20	58.000	7070233
SSLB 100 DD	100	20	7.700	7070306
SSLB 150 DD	150	20	14.000	7070310
SSLB 200 DD	200	20	18.500	7070314
SSLB 300 DD	300	20	29.200	7070318
SSLB 400 DD	400	20	38.200	7070322
SSLB 500 DD	500	20	49.000	7070326
SSLB 600 DD	600	20	58.000	7070334
SSLB 550 DD	550	20	53.500	7070330

Wide joint plate for use in all cable trays and wide span cable trays. Including appropriate fastening material.

Joint plate

A2 A4 2B



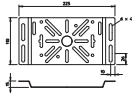
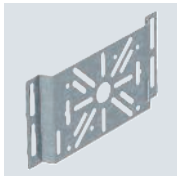
Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
SSLB 100 A2	100	20	7.700	7070353
SSLB 200 A2	200	20	18.500	7070361
SSLB 300 A2	300	20	29.200	7070365
SSLB 400 A2	400	20	38.200	7070369
SSLB 500 A2	500	20	49.000	7070373
SSLB 600 A2	600	20	58.000	7070381
SSLB 100 A4	100	20	7.700	7070390
SSLB 200 A4	200	20	18.500	7070392
SSLB 300 A4	300	20	29.200	7070394
SSLB 400 A4	400	20	38.200	7070396
SSLB 500 A4	500	20	49.000	7070398
SSLB 600 A4	600	20	58.000	7070400

Wide joint plate for use in all cable trays and wide span cable trays. Including appropriate fastening material.

Mounting plates

St FS

Mounting plate FS



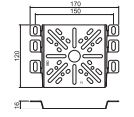
Type	Height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MP FS	110	225	1	20.000	7084919

Mounting plate for fastening on the side rail of the cable tray. All kinds of junction boxes and switching devices can be fastened to the mark.

St A2 FS DD 2B

Type	Height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MP UNI FS	120	170	1	11.000	7084773
MP UNI DD	120	170	1	11.000	7085114
MP UNI A2	120	170	1	11.000	7085133

Please order the truss-head bolt, type FRSB 6 x 12, separately.
Mounting plate, for fastening on the side rail of cable support systems.

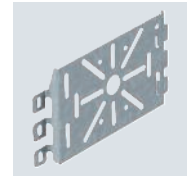
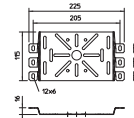


Mounting plate

St FS

Type	Height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MP 225 UNI FS	115	225	1	20.000	7084870

Please order the truss-head bolt, type FRSB 6 x 12, separately.
Mounting plate for universal use on side rails of cable trays and mesh cable trays.

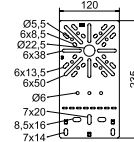


Mounting plate

St FS DD

Type	Height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MP FL FS	235	120	1	19.200	7084757
MP FL DD	235	120	1	19.200	7085108

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.

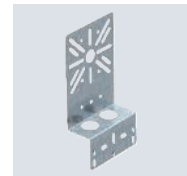
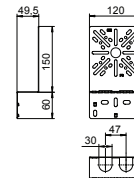


Mounting plate, flat

St FS DD

Type	Height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MP WI KL. FS	210	120	1	20.200	7084765
MP WI KL. DD	210	120	1	20.200	7085111

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.

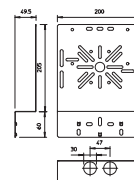


Mounting plate, angled

St FS DD

Type	Height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MP WI GR. FS	240	200	1	39.400	7084781
MP WI GR. DD	240	200	1	39.400	7085112

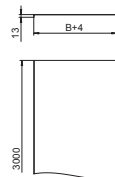
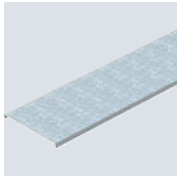
Please order the truss-head bolt, type FRS B6 x 12, separately.
Angled mounting plate, for fastening on the side rail of the cable tray.



Mounting plate, angled, wide

St FS DD

Unperforated cover



Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRLU 050 FS	50	1.00	3000	3	59.767	6052056
DRLU 100 FS	100	1.00	3000	3	99.000	6052103
DRLU 150 FS	150	1.00	3000	3	138.267	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	334.500	6052405
DRLU 500 FS	500	1.50	3000	3	619.234	6052512
DRLU 550 FS	550	1.50	3000	3	678.100	6052571
DRLU 600 FS	600	1.50	3000	3	737.000	6052609
DRLU 050 DD	50	1.00	3000	3	59.770	6052640
DRLU 100 DD	100	1.00	3000	3	99.000	6052643
DRLU 150 DD	150	1.00	3000	3	138.267	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	1.50	3000	3	619.234	6052668
DRLU 550 DD	550	1.50	3000	3	678.100	6052671
DRLU 600 DD	600	1.50	3000	3	737.000	6052674

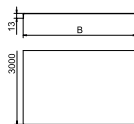
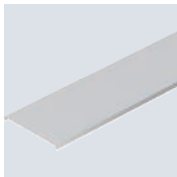
Cover for cable trays and mesh cable trays.

When using covers outdoors, additional measures against the influence of wind must be taken.

Transverse bead from 500 mm width.

Unperforated cover

A2 A4 2B



Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRLU 050 A2	50	1.00	3000	3	59.767	6052821
DRLU 100 A2	100	1.00	3000	3	99.000	6052824
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	1.50	3000	3	619.167	6052841
DRLU 600 A2	600	1.50	3000	3	736.900	6052844
DRLU 100 A4	100	1.00	3000	3	99.000	6052991
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	619.167	6052996
DRLU 600 A4	600	1.25	3000	3	736.900	6052998

Cover for cable trays and mesh cable trays.

When using covers outdoors, additional measures against the influence of wind must be taken.

Transverse bead from 500 mm width.

Cover clamp

VA 2B



Type	Pack Piece	Weight kg/100 pc.	Item no.
DK DRLU A2	30	0.842	6052810

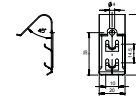
Cover clamp for secure fastening of covers on cable trays and cable ladders.

At least 6 cover clamps should be mounted for each 3 metres of cover.

VA 2B

Cover clamp, universal

Type	Pack Piece	Weight kg/100 pc.	Item no.
DKU A2	20	0.794	6065600

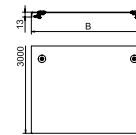


Cover clamp for universal fastening of covers on cable trays, mesh cable trays and AZ small ducts.
The cover clamp is not suitable for use with mesh cable trays with a side height of 35 mm.
Depending on the tray width, 4–6 cover clamps are required for secure fastening of a 3 m cover.

St FS FT DD

Cover with turn buckle

Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
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 100 FT	100	1.00	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 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

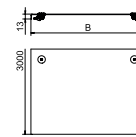


Transverse bead from 500 mm width.
Cover for cable trays and cable ladders with turn buckles.
When using covers outdoors, additional measures against the influence of wind must be taken.

A2 A4 2B

Cover with turn buckle

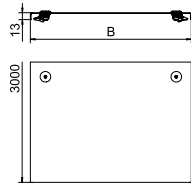
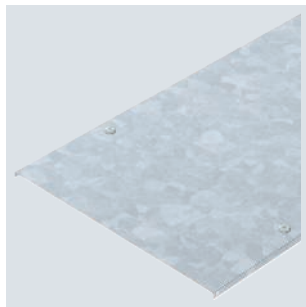
Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL 100 A2	100	1.00	3000	3	105.070	6052878
DRL 200 A2	200	1.00	3000	3	183.500	6052894
DRL 300 A2	300	1.00	3000	3	262.240	6052908
DRL 400 A2	400	1.00	3000	3	340.400	6052932
DRL 500 A2	500	1.25	3000	3	625.340	6052959
DRL 600 A2	600	1.25	3000	3	743.240	6052975
DRL 100 A4	100	1.00	3000	3	105.070	6052980
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



Transverse bead from 500 mm width.
Cover for cable trays and cable ladders with three pairs of turn buckles.
When using covers outdoors, additional measures against the influence of wind must be taken.

Cover with turn buckle FT SOMY

St FT SO

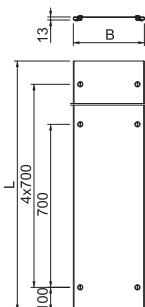
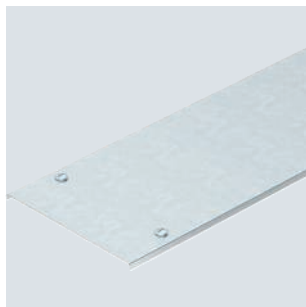


Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL 200 FT SO	200	1.00	3000	3	210.670	7196035
DRL 400 FT SO	400	1.00	3000	3	371.370	7196039
DRL 500 FT SO	500	1.00	3000	3	623.000	7196045
DRL 600 FT SO	600	1.00	3000	3	818.667	7196061
DRL 150 FT SO	150	1.00	3000	3	165.400	7196034

Cover for cable trays and cable ladders with three pairs of turn buckles.
When using covers outdoors, additional measures against the influence of wind must be taken.

Cover with turn buckle 200

St FT

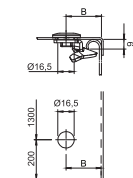


Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DMFR 200 FT	200	1.00	3000	3	194.470	6083150
DMFR 300 FT	300	1.50	3000	3	407.970	6083152
DMFR 400 FT	400	1.50	3000	3	533.570	6083154

Cover for mobile radio tray with five pairs of turn buckles.
When using covers outdoors, additional measures against the influence of wind must be taken.

Turn buckle for riveting

St FT

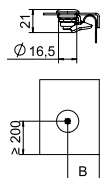


Type	Pack Piece	Weight kg/100 pc.	Item no.
DRL H FT	20	2.187	6065012

Turn buckle for additional installation or installation at a later date.
Depending on the cover version, dimension B varies as follows:
DRL / DRLU = 27 mm
DBKR = 27 mm
WDRL = 38 mm
WKLD = 58 mm
Single-sided turn buckle. Use for cover widths of 100–600 mm.

Turn buckle for screwing

St FT



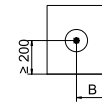
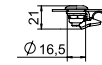
Type	Pack Piece	Weight kg/100 pc.	Item no.
DRL H S FT	20	3.260	6065018

Turn buckle for additional installation or installation at a later date.
Depending on the cover version, dimension B varies as follows:
DRL / DRLU = 27 mm
DBKR = 27 mm
WDRL = 38 mm
WKLD = 58 mm
Single-sided turn buckle. Use for cover widths of 100–600 mm.

A2 2B

Turn buckle for screwing

Type	Pack Piece	Weight kg/100 pc.	Item no.
DRL H S A2	20	3.260	6065016

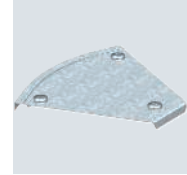
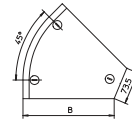


Turn buckle for additional mounting or mounting at a later date.
 Depending on the cover version, dimension B varies as follows:
 DRL / DRLU = 27 mm
 DBKR = 27 mm
 WDRL = 38 mm
 WKLD = 58 mm
 Single-sided turn buckle. Use for cover widths of 100–600 mm.

St FS DD

Cover for 45° bend

Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 45 100 FS	100	1.00	1	19.400	7128819
DFB 45 150 FS	150	1.00	1	27.800	7128827
DFB 45 200 FS	200	1.00	1	36.900	7128835
DFB 45 300 FS	300	1.00	1	60.200	7128851
DFB 45 100 DD	100	1.00	1	19.400	7131828
DFB 45 150 DD	150	1.00	1	27.800	7131836
DFB 45 200 DD	200	1.00	1	36.900	7131844
DFB 45 300 DD	300	1.00	1	60.200	7131860

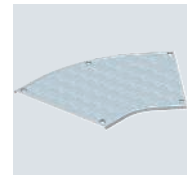
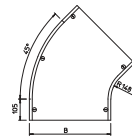


The cover can be used with fittings of all side heights.
 Cover for 45° bend with pre-mounted turn buckle.

St FS DD

Cover for 45° bend

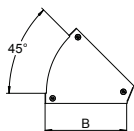
Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 45 400 FS	400	1.25	1	218.600	7128886
DFB 45 500 FS	500	1.25	1	252.800	7128908
DFB 45 550 FS	550	1.25	1	324.000	7128916
DFB 45 600 FS	600	1.25	1	362.800	7128924
DFB 45 400 DD	400	1.25	1	218.600	7131879
DFB 45 500 DD	500	1.25	1	252.800	7131887
DFB 45 550 DD	550	1.25	1	324.000	7131895
DFB 45 600 DD	600	1.25	1	362.800	7131909



The cover can be used with fittings of all side heights.
 Cover for 45° bend with pre-mounted turn buckle.

St FS DD

Cover for 45° Magic bend

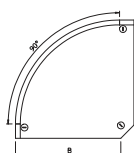
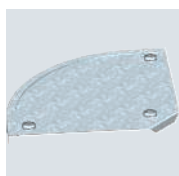


Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFBM 45 100 FS	100	1.25	1	16.400	7138360
DFBM 45 150 FS	150	1.25	1	23.100	7138362
DFBM 45 200 FS	200	1.25	1	31.400	7138364
DFBM 45 300 FS	300	1.25	1	52.400	7138366
DFBM 45 400 FS	400	1.25	1	97.900	7138368
DFBM 45 500 FS	500	1.25	1	142.300	7138370
DFBM 45 600 FS	600	1.25	1	191.500	7138372
DFBM 45 100 DD	100	1.25	1	16.400	7138400
DFBM 45 150 DD	150	1.25	1	23.100	7138402
DFBM 45 200 DD	200	1.25	1	31.400	7138404
DFBM 45 300 DD	300	1.25	1	52.400	7138406
DFBM 45 400 DD	400	1.25	1	97.900	7138408
DFBM 45 500 DD	500	1.25	1	142.300	7138410
DFBM 45 600 DD	600	1.25	1	191.500	7138412

The cover can be used with fittings of all side heights.
Cover for 45° bend with pre-mounted turn buckles.

Cover for 90° bend

St FS DD

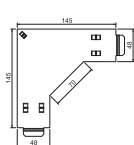


Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 90 100 FS	100	1.00	1	27.000	7129610
DFB 90 150 FS	150	1.00	1	40.000	7129629
DFB 90 200 FS	200	1.00	1	56.000	7129637
DFB 90 300 FS	300	1.00	1	100.000	7129653
DFB 90 100 DD	100	1.00	1	27.000	7130511
DFB 90 150 DD	150	1.00	1	40.000	7130538
DFB 90 200 DD	200	1.00	1	56.000	7130546
DFB 90 300 DD	300	1.00	1	100.000	7130562

The cover can be used with fittings of all side heights.
Cover for 90° bend with pre-mounted turn buckles.

Cover for 90° bend

St FS FT



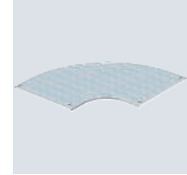
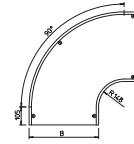
Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 90 050 FS	50	1.00	1	10.800	7131780
DFB 90 050 FT	50	1.00	1	12.000	7131785

Fixing under cable tray cover, no fastening material required.
Cover for 90° cable tray bend fitting, type RB 90 305 and 605.

St FS DD

Cover for 90° bend

Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 90 400 FS	400	1.25	1	340.000	7129688
DFB 90 500 FS	500	1.25	1	455.000	7129718
DFB 90 550 FS	550	1.25	1	517.000	7129726
DFB 90 600 FS	600	1.25	1	640.000	7129734
DFB 90 400 DD	400	1.25	1	400.000	7130589
DFB 90 500 DD	500	1.25	1	535.000	7130600
DFB 90 550 DD	550	1.25	1	607.000	7130619
DFB 90 600 DD	600	1.25	1	750.000	7130627

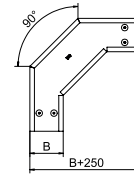


The cover can be used with fittings of all side heights.
Cover for 90° bend with pre-mounted turn buckles.

A2 A4 2B

Cover for 90° bend

Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 90 100 A2	100	1.00	1	65.000	7134908
DFB 90 200 A2	200	1.00	1	60.000	7134916
DFB 90 300 A2	300	1.00	1	102.200	7134924
DFB 90 100 A4	100	1.00	1	65.000	7134982
DFB 90 200 A4	200	1.00	1	60.000	7134988
DFB 90 300 A4	300	1.00	1	102.200	7134990

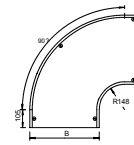


The cover can be used with fittings of all side heights.
The 100 mm width has a rectangular shape and does not correspond to the image.
Cover for 90° bend with pre-mounted turn buckles.

A2 A4 2B

Cover for 90° bend

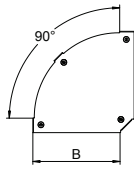
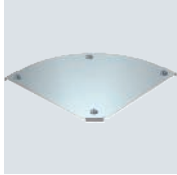
Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 90 400 A2	400	1.25	1	340.000	7134932
DFB 90 500 A2	500	1.25	1	470.000	7134940
DFB 90 600 A2	600	1.25	1	589.700	7134967
DFB 90 400 A4	400	1.25	1	340.000	7134992
DFB 90 500 A4	500	1.25	1	470.000	7134994
DFB 90 600 A4	600	1.25	1	589.700	7134996



The cover can be used with fittings of all side heights.
Cover for 90° bend with pre-mounted turn buckles.

St FS DD

Cover for 90° Magic bend

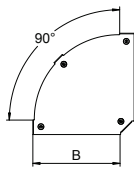


Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFBM 90 100 FS	100	1.25	1	17.100	7138500
DFBM 90 150 FS	150	1.25	1	28.500	7138502
DFBM 90 200 FS	200	1.25	1	43.000	7138504
DFBM 90 300 FS	300	1.25	1	81.600	7138506
DFBM 90 400 FS	400	1.25	1	165.000	7138508
DFBM 90 500 FS	500	1.25	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

The cover can be used with fittings of all side heights.
Cover for 90° bend with pre-mounted turn buckles.

Cover for 90° Magic bend

A2 A4 2B

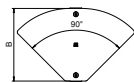


Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFBM 90 100 A2	100	1.25	1	18.500	7138570
DFBM 90 200 A2	200	1.25	1	44.400	7138574
DFBM 90 300 A2	300	1.25	1	83.000	7138576
DFBM 90 400 A2	400	1.25	1	166.400	7138578
DFBM 90 500 A2	500	1.25	1	245.500	7138580
DFBM 90 600 A2	600	1.25	1	339.500	7138582
DFBM 90 100 A4	100	1.25	1	18.500	7138590
DFBM 90 200 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

The cover can be used with fittings of all side heights.
Cover for 90° bend with pre-mounted turn buckles.

Cover for variable Magic bend

St FS DD



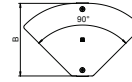
Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFBMV 100 FS	100	1.00	1	17.300	6040760
DFBMV 150 FS	150	1.00	1	28.500	6040762
DFBMV 200 FS	200	1.00	1	42.800	6040764
DFBMV 300 FS	300	1.00	1	81.200	6040766
DFBMV 400 FS	400	1.25	1	164.400	6040768
DFBMV 500 FS	500	1.25	1	244.500	6040770
DFBMV 600 FS	600	1.25	1	340.600	6040772
DFBMV 100 DD	100	1.00	1	17.300	6040780
DFBMV 200 DD	200	1.00	1	42.800	6040784
DFBMV 300 DD	300	1.00	1	81.200	6040786
DFBMV 400 DD	400	1.25	1	164.400	6040788
DFBMV 500 DD	500	1.25	1	244.500	6040790
DFBMV 600 DD	600	1.25	1	340.600	6040792

Cover for the variable bend, adjustable to an angle of 0 to 90°, locking through turn buckle and through overlapping with cable tray cover.

A2 A4 2B

Cover for variable Magic bend

Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFBMV 100 A2	100	1.00	1	16.800	6040800
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 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

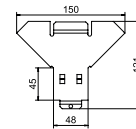


Cover for the variable bend, adjustable to an angle of 0 to 90°, locking through turn buckle and through overlapping with cable tray cover.

St FS FT

Cover for add-on tee

Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFAA 050 FS	50	1.00	1	8.450	7132110
DFAA 050 FT	50	1.00	1	9.380	7132115

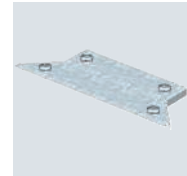
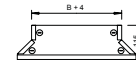


Cover for add-on tee cable tray fitting, type RAA 305 and 605. Fixing under cable tray cover, no fastening material required.

St FS DD

Cover for add-on tee

Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFAA 100 FS	100	1.00	1	25.000	7128428
DFAA 150 FS	150	1.00	1	30.000	7128436
DFAA 200 FS	200	1.00	1	34.000	7128444
DFAA 300 FS	300	1.00	1	43.000	7128460
DFAA 100 DD	100	1.00	1	25.000	7131305
DFAA 200 DD	200	1.00	1	34.000	7131321
DFAA 300 DD	300	1.00	1	43.000	7131348

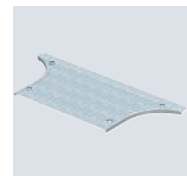
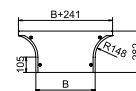


Cover for add-on tee with pre-mounted turn buckles. The cover can be used with fittings of all side heights.

St FS DD

Cover for add-on tee

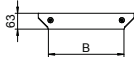
Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFAA 400 FS	400	1.25	1	145.000	7128487
DFAA 500 FS	500	1.25	1	174.000	7128509
DFAA 550 FS	550	1.25	1	186.000	7128517
DFAA 600 FS	600	1.25	1	200.000	7128525
DFAA 400 DD	400	1.25	1	145.000	7131356
DFAA 500 DD	500	1.25	1	174.000	7131364
DFAA 550 DD	550	1.25	1	186.000	7131372
DFAA 600 DD	600	1.25	1	214.000	7131380



Cover for add-on tee with pre-mounted turn buckles. The cover can be used with fittings of all side heights.

St FS DD

Cover for Magic add-on tee

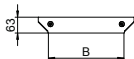
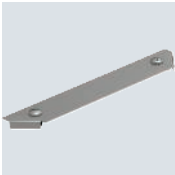


Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFAAM 100 FS	100	1.25	1	12.400	7138640
DFAAM 150 FS	150	1.25	1	14.800	7138642
DFAAM 200 FS	200	1.25	1	17.300	7138644
DFAAM 300 FS	300	1.25	1	22.200	7138646
DFAAM 400 FS	400	1.25	1	32.800	7138648
DFAAM 500 FS	500	1.25	1	39.000	7138650
DFAAM 600 FS	600	1.25	1	45.100	7138652
DFAAM 100 DD	100	1.25	1	12.400	7138680
DFAAM 150 DD	150	1.25	1	14.800	7138682
DFAAM 200 DD	200	1.25	1	17.300	7138684
DFAAM 300 DD	300	1.25	1	22.200	7138686
DFAAM 400 DD	400	1.25	1	32.800	7138688
DFAAM 500 DD	500	1.25	1	39.000	7138690
DFAAM 600 DD	600	1.25	1	45.100	7138692

Cover for add-on tee with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

Cover for Magic add-on tee

A2 A4 2B

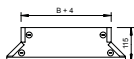


Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFAAM 100 A2	100	1.25	1	11.100	7138720
DFAAM 200 A2	200	1.25	1	14.500	7138724
DFAAM 300 A2	300	1.25	1	20.900	7138726
DFAAM 400 A2	400	1.25	1	31.700	7138728
DFAAM 500 A2	500	1.25	1	37.900	7138730
DFAAM 600 A2	600	1.25	1	44.100	7138732
DFAAM 100 A4	100	1.25	1	11.100	7138740
DFAAM 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

Cover for add-on tee with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

Cover for add-on tee

A2 A4 2B



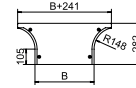
Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFAA 100 A2	100	1.00	1	26.700	7136900
DFAA 200 A2	200	1.00	1	35.800	7136919
DFAA 300 A2	300	1.00	1	44.800	7136927
DFAA 100 A4	100	1.00	1	26.000	7136902
DFAA 200 A4	200	1.00	1	35.800	7136921
DFAA 300 A4	300	1.00	1	44.800	7136929

Cover for add-on tee with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

A2 A4 2B

Cover for add-on tee

Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFAA 400 A2	400	1.25	1	176.800	7136935
DFAA 500 A2	500	1.25	1	208.000	7136943
DFAA 600 A2	600	1.25	1	240.000	7136978
DFAA 400 A4	400	1.25	1	176.800	7136937
DFAA 500 A4	500	1.25	1	210.000	7136944
DFAA 600 A4	600	1.25	1	243.300	7136980

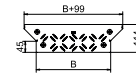


Cover for add-on tee with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

St FS

Cover for add-on tee BKRS

Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFAA BKR 100 FS	100	2.00	1	35.500	6049400
DFAA BKR 200 FS	200	2.00	1	51.900	6049402
DFAA BKR 300 FS	300	2.00	1	68.800	6049404
DFAA BKR 400 FS	400	2.00	1	202.900	6049406
DFAA BKR 500 FS	500	2.00	1	247.200	6049408
DFAA BKR 600 FS	600	2.00	1	290.800	6049410

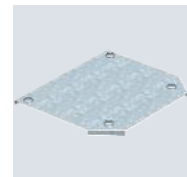
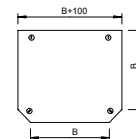


The cover can be used with fittings of all side heights.
Cover for add-on tee with pre-mounted turn buckles.

St FS DD

Cover for tee

Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
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 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

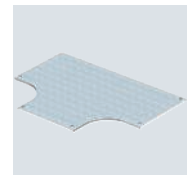
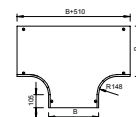


Cover for tee with pre-mounted turn buckle.
The cover can be used with fittings of all side heights.

St FS DD

Cover for tee

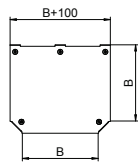
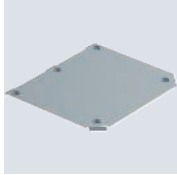
Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFT 400 FS	400	1.25	1	505.000	7128282
DFT 500 FS	500	1.25	1	670.000	7128304
DFT 600 FS	600	1.25	1	854.000	7128320
DFT 400 DD	400	1.25	1	600.000	7129386
DFT 500 DD	500	1.25	1	798.000	7129408
DFT 550 DD	550	1.25	1	905.500	7129416
DFT 600 DD	600	1.25	1	1,019.000	7129424



Cover for tee with pre-mounted turn buckle.
The cover can be used with fittings of all side heights.

St FS DD

Cover for Magic tee

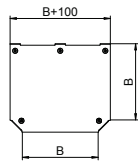
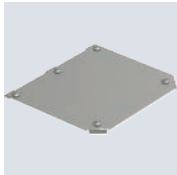


Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFTM 100 FS	100	1.25	1	30.400	7138790
DFTM 150 FS	150	1.25	1	45.700	7138792
DFTM 200 FS	200	1.25	1	64.900	7138794
DFTM 300 FS	300	1.25	1	117.600	7138796
DFTM 400 FS	400	1.25	1	226.500	7138798
DFTM 500 FS	500	1.25	1	325.800	7138800
DFTM 600 FS	600	1.25	1	449.400	7138802
DFTM 100 DD	100	1.25	1	30.400	7138830
DFTM 150 DD	150	1.25	1	45.700	7138832
DFTM 200 DD	200	1.25	1	64.900	7138834
DFTM 300 DD	300	1.25	1	117.600	7138836
DFTM 400 DD	400	1.25	1	226.500	7138838
DFTM 500 DD	500	1.25	1	328.400	7138840
DFTM 600 DD	600	1.25	1	449.400	7138842

Cover for tee with pre-mounted turn buckle.
The cover can be used with fittings of all side heights.

Cover for Magic tee

A4 2B

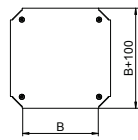
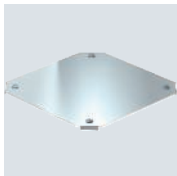


Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFTM 600 A4	600	1.25	1	444.600	7138892

The cover can be used with fittings of all side heights.
Cover for tee with pre-mounted turn buckles.

Cover for Magic cross-over

St FS DD

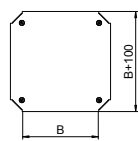
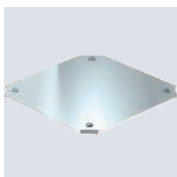


Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFKM 100 FS	100	1.25	1	36.300	7138930
DFKM 150 FS	150	1.25	1	53.700	7138932
DFKM 200 FS	200	1.25	1	75.000	7138934
DFKM 400 FS	400	1.25	1	246.900	7138938
DFKM 500 FS	500	1.25	1	353.700	7138940
DFKM 600 FS	600	1.25	1	480.100	7138942
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

Cover for cross-over with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

Cover for Magic cross-over

St FS



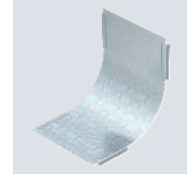
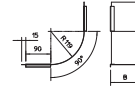
Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFKM 300 FS	300	1.25	1	129.300	7138936

The cover can be used with fittings of all side heights.
Cover for cross-over with pre-mounted turn buckles.

St FS DD

Cover for 90° vertical bend, rising

Type	Side height mm	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 100 S FS	60	100	0.75	1	21.000	7130805
DBV 150 S FS	60	150	0.75	1	30.000	7130809
DBV 200 S FS	60	200	0.75	1	39.000	7130813
DBV 300 S FS	60	300	0.75	1	49.000	7130817
DBV 400 S FS	60	400	0.75	1	68.000	7130821
DBV 500 S FS	60	500	0.75	1	86.000	7130825
DBV 600 S FS	60	600	0.75	1	105.000	7130829
DBV 100 S DD	60	100	0.75	1	34.000	7131508
DBV 150 S DD	60	150	0.75	1	50.000	7131509
DBV 200 S DD	60	200	0.75	1	66.000	7131510
DBV 300 S DD	60	300	0.75	1	81.000	7131514
DBV 400 S DD	60	400	0.75	1	113.000	7131518
DBV 500 S DD	60	500	0.75	1	144.000	7131524
DBV 600 S DD	60	600	0.75	1	176.000	7131527



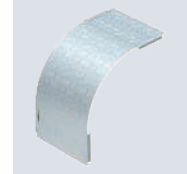
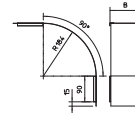
Cover for all rising vertical bends.

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

St FS DD

Cover for 90° vertical bend, falling

Type	Side height mm	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 60 100 F FS	60	100	0.75	1	25.200	7130852
DBV 60 150 F FS	60	150	0.75	1	36.900	7130856
DBV 60 200 F FS	60	200	0.75	1	48.700	7130860
DBV 60 300 F FS	60	300	0.75	1	72.300	7130864
DBV 60 400 F FS	60	400	0.75	1	95.800	7130868
DBV 60 500 F FS	60	500	0.75	1	119.300	7130872
DBV 60 600 F FS	60	600	0.75	1	142.800	7130876
DBV 60 100 F DD	60	100	0.75	1	42.100	7131632
DBV 60 150 F DD	60	150	0.75	1	61.700	7131634
DBV 60 200 F DD	60	200	0.75	1	81.300	7131636
DBV 60 300 F DD	60	300	0.75	1	120.400	7131640
DBV 60 400 F DD	60	400	0.75	1	159.600	7131644
DBV 60 500 F DD	60	500	0.75	1	198.800	7131648
DBV 60 600 F DD	60	600	0.75	1	238.000	7131652



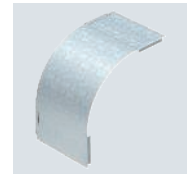
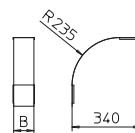
Cover for falling vertical bends of side height 60 mm.

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

St FS

Cover for 90° vertical bend 85, falling

Type	Side height mm	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 85 100 F FS	85	100	0.75	1	27.100	7130990
DBV 85 200 F FS	85	200	0.75	1	52.500	7130994
DBV 85 300 F FS	85	300	0.75	1	77.800	7130998
DBV 85 400 F FS	85	400	0.75	1	103.200	7131002
DBV 85 500 F FS	85	500	0.75	1	128.500	7131006
DBV 85 600 F FS	85	600	0.75	1	153.900	7131010

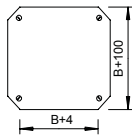
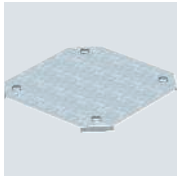


Cover for falling vertical bends of side height 85 mm.

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

St FS DD

Cover for cross-over

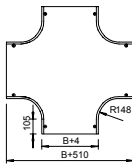
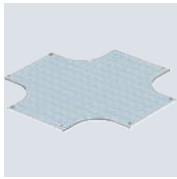


Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFK 100 FS	100	1.25	1	44.500	7128614
DFK 150 FS	150	1.25	1	62.500	7128622
DFK 200 FS	200	1.25	1	83.500	7128630
DFK 300 FS	300	1.25	1	138.500	7128657
DFK 100 DD	100	1.25	1	44.500	7131089
DFK 200 DD	200	1.25	1	83.500	7131100
DFK 300 DD	300	1.25	1	138.500	7131127

The cover can be used with fittings of all side heights.
Cover for cross-over with pre-mounted turn buckles.

Cover for cross-over

St FS DD



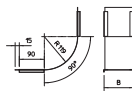
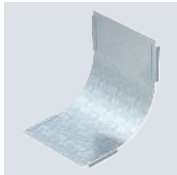
Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFK 400 FS	400	1.25	1	624.000	7128673
DFK 500 FS	500	1.25	1	810.000	7128703
DFK 600 FS	600	1.25	1	1,020.000	7128738
DFK 400 DD	400	1.25	1	739.000	7131143
DFK 500 DD	500	1.25	1	965.000	7131178
DFK 600 DD	600	1.25	1	1,215.000	7131194

The cover can be used with fittings of all side heights.
Cover for cross-over with pre-mounted turn buckles.

Cover, vertical bend, rising

St FS DD

Cover for 90° vertical bend, rising



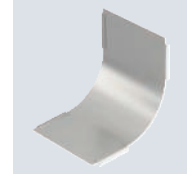
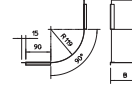
Type	Side height mm	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 100 S FS	60	100	0.75	1	21.000	7130805
DBV 150 S FS	60	150	0.75	1	30.000	7130809
DBV 200 S FS	60	200	0.75	1	39.000	7130813
DBV 300 S FS	60	300	0.75	1	49.000	7130817
DBV 400 S FS	60	400	0.75	1	68.000	7130821
DBV 500 S FS	60	500	0.75	1	86.000	7130825
DBV 600 S FS	60	600	0.75	1	105.000	7130829
DBV 100 S DD	60	100	0.75	1	34.000	7131508
DBV 150 S DD	60	150	0.75	1	50.000	7131509
DBV 200 S DD	60	200	0.75	1	66.000	7131510
DBV 300 S DD	60	300	0.75	1	81.000	7131514
DBV 400 S DD	60	400	0.75	1	113.000	7131518
DBV 500 S DD	60	500	0.75	1	144.000	7131524
DBV 600 S DD	60	600	0.75	1	176.000	7131527

Cover for all rising vertical bends.
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

A2 A4 2B

Cover for 90° vertical bend, rising

Type	Side height mm	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 100 S A2	60	100	0.75	1	34.000	7130905
DBV 200 S A2	60	200	0.75	1	39.000	7130907
DBV 300 S A2	60	300	0.75	1	49.000	7130909
DBV 400 S A2	60	400	0.75	1	68.000	7130911
DBV 500 S A2	60	500	0.75	1	86.000	7130913
DBV 600 S A2	60	600	0.75	1	105.000	7130915
DBV 100 S A4	60	100	0.75	1	21.000	7130920
DBV 200 S A4	60	200	0.75	1	39.000	7130922
DBV 300 S A4	60	300	0.75	1	49.000	7130924
DBV 400 S A4	60	400	0.75	1	68.000	7130926
DBV 500 S A4	60	500	0.75	1	86.000	7130928
DBV 600 S A4	60	600	0.75	1	105.000	7130930



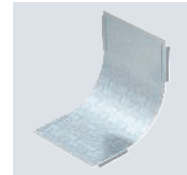
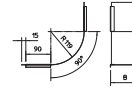
Cover for all rising vertical bends.

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

St FT

Cover for 90° vertical bend, rising

Type	Side height mm	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 100 S FT	60	100	0.75	1	37.200	7131710
DBV 200 S FT	60	200	0.75	1	65.200	7131712
DBV 300 S FT	60	300	0.75	1	105.100	7131714
DBV 400 S FT	60	400	0.75	1	136.000	7131716



Cover for all rising vertical bends.

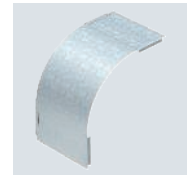
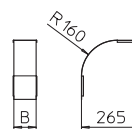
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Cover, vertical bend, falling

St FS DD

Cover for 90° vertical bend, falling

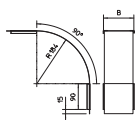
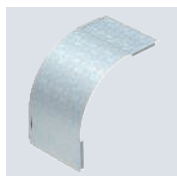
Type	Side height mm	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 35 100 F FS	35	100	0.75	1	23.000	7130764
DBV 35 150 F FS	35	150	0.75	1	37.000	7130768
DBV 35 200 F FS	35	200	0.75	1	45.000	7130772
DBV 35 300 F FS	35	300	0.75	1	67.000	7130776
DBV 35 100 F DD	35	100	0.75	1	23.000	7131592
DBV 35 150 F DD	35	150	0.75	1	37.000	7131594
DBV 35 200 F DD	35	200	0.75	1	45.000	7131596
DBV 35 300 F DD	35	300	0.75	1	67.000	7131600



Cover for falling vertical bends of side height 35 mm.

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Cover for 90° vertical bend, falling

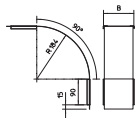
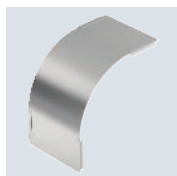


Type	Side height mm	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 60 100 F FS	60	100	0.75	1	25.200	7130852
DBV 60 150 F FS	60	150	0.75	1	36.900	7130856
DBV 60 200 F FS	60	200	0.75	1	48.700	7130860
DBV 60 300 F FS	60	300	0.75	1	72.300	7130864
DBV 60 400 F FS	60	400	0.75	1	95.800	7130868
DBV 60 500 F FS	60	500	0.75	1	119.300	7130872
DBV 60 600 F FS	60	600	0.75	1	142.800	7130876
DBV 60 100 F DD	60	100	0.75	1	42.100	7131632
DBV 60 150 F DD	60	150	0.75	1	61.700	7131634
DBV 60 200 F DD	60	200	0.75	1	81.300	7131636
DBV 60 300 F DD	60	300	0.75	1	120.400	7131640
DBV 60 400 F DD	60	400	0.75	1	159.600	7131644
DBV 60 500 F DD	60	500	0.75	1	198.800	7131648
DBV 60 600 F DD	60	600	0.75	1	238.000	7131652

Cover for falling vertical bends of side height 60 mm.

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Cover for 90° vertical bend 60, falling

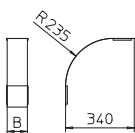
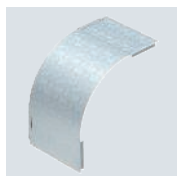


Type	Side height mm	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 60 100 F A2	60	100	0.75	1	42.100	7130952
DBV 60 200 F A2	60	200	0.75	1	81.300	7130954
DBV 60 300 F A2	60	300	0.75	1	120.400	7130956
DBV 60 400 F A2	60	400	0.75	1	159.600	7130958
DBV 60 500 F A2	60	500	0.75	1	198.800	7130960
DBV 60 600 F A2	60	600	0.75	1	238.000	7130962
DBV 60 100 F A4	60	100	0.75	1	42.100	7130972
DBV 60 200 F A4	60	200	0.75	1	81.300	7130974
DBV 60 300 F A4	60	300	0.75	1	120.400	7130976
DBV 60 400 F A4	60	400	0.75	1	159.600	7130978
DBV 60 500 F A4	60	500	0.75	1	198.800	7130980
DBV 60 600 F A4	60	600	0.75	1	238.000	7130982

Cover for falling vertical bends of side height 60 mm.

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Cover for 90° vertical bend 85, falling



Type	Side height mm	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 85 100 F FS	85	100	0.75	1	27.100	7130990
DBV 85 200 F FS	85	200	0.75	1	52.500	7130994
DBV 85 300 F FS	85	300	0.75	1	77.800	7130998
DBV 85 400 F FS	85	400	0.75	1	103.200	7131002
DBV 85 500 F FS	85	500	0.75	1	128.500	7131006
DBV 85 600 F FS	85	600	0.75	1	153.900	7131010
DBV 85 100 F DD	85	100	0.75	1	45.200	7131672
DBV 85 200 F DD	85	200	0.75	1	87.500	7131676
DBV 85 300 F DD	85	300	0.75	1	129.700	7131680
DBV 85 400 F DD	85	400	0.75	1	172.000	7131684
DBV 85 500 F DD	85	500	0.75	1	214.200	7131688
DBV 85 600 F DD	85	600	0.75	1	256.000	7131692

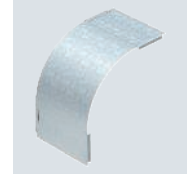
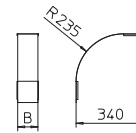
Cover for falling vertical bends of side height 85 mm.

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

St FS DD

Cover for 90° vertical bend 110, falling

Type	Side height mm	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 110 100 F FS	110	100	0.75	1	29.000	7131030
DBV 110 150 F FS	110	150	0.75	1	42.600	7131032
DBV 110 200 F FS	110	200	0.75	1	56.200	7131034
DBV 110 300 F FS	110	300	0.75	1	83.400	7131038
DBV 110 400 F FS	110	400	0.75	1	110.600	7131042
DBV 110 500 F FS	110	500	0.75	1	137.800	7131046
DBV 110 600 F FS	110	600	0.75	1	165.000	7131052
DBV 110 550 F FS	110	550	0.75	1	151.400	7131050
DBV 110 100 F DD	110	100	0.75	1	48.300	7131556
DBV 110 150 F DD	110	150	0.75	1	71.000	7131554
DBV 110 200 F DD	110	200	0.75	1	93.700	7131560
DBV 110 300 F DD	110	300	0.75	1	139.000	7131564
DBV 110 400 F DD	110	400	0.75	1	184.300	7131568
DBV 110 500 F DD	110	500	0.75	1	229.700	7131572
DBV 110 600 F DD	110	600	0.75	1	275.000	7131576



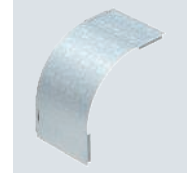
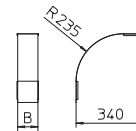
Cover for falling vertical bends of side height 110 mm.

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

St DD

Cover for 90° vertical bend 110, falling

Type	Side height mm	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 110 550 F DD	110	550	0.75	1	252.300	7131574



Cover for falling vertical bends of side height 110 mm.

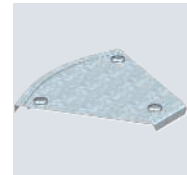
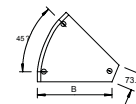
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Lid, horizontal bend

St FT

Cover for 45° bend

Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 45 100 FT	100	1.00	1	19.400	7132002
DFB 45 200 FT	200	1.00	1	36.900	7132004
DFB 45 300 FT	300	1.00	1	60.200	7132006



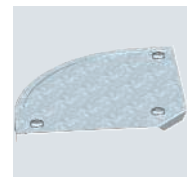
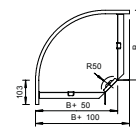
The cover can be used with fittings of all side heights.

Cover for 45° bend with pre-mounted turn buckles.

St FT

Cover for 90° bend

Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 90 100 FT	100	1.00	1	29.000	7132022
DFB 90 200 FT	200	1.00	1	61.000	7132024
DFB 90 300 FT	300	1.00	1	106.900	7132026



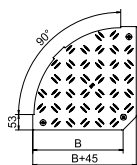
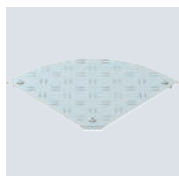
The cover can be used with fittings of all side heights.

Cover for 90° bend with pre-mounted turn buckles.

Lid, horizontal bend

Cover for 90° bend BKRS

St FS



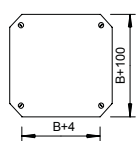
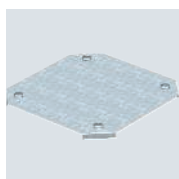
Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB90 BKR 100 FS	100	2.00	1	34.000	6049372
DFB90 BKR 200 FS	200	2.00	1	88.700	6049374
DFB90 BKR 300 FS	300	2.00	1	159.600	6049376
DFB90 BKR 400 FS	400	2.00	1	458.800	6049378
DFB90 BKR 500 FS	500	2.00	1	626.900	6049380
DFB90 BKR 600 FS	600	2.00	1	816.400	6049382

The cover can be used with fittings of all side heights.
Cover for 90° bend with pre-mounted turn buckles.

Lid for intersection

Cover for cross-over

St FS DD

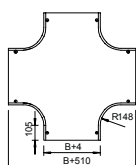
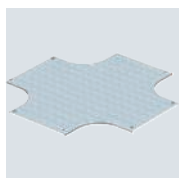


Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFK 100 FS	100	1.25	1	44.500	7128614
DFK 150 FS	150	1.25	1	62.500	7128622
DFK 200 FS	200	1.25	1	83.500	7128630
DFK 300 FS	300	1.25	1	138.500	7128657
DFK 100 DD	100	1.25	1	44.500	7131089
DFK 200 DD	200	1.25	1	83.500	7131100
DFK 300 DD	300	1.25	1	138.500	7131127

The cover can be used with fittings of all side heights.
Cover for cross-over with pre-mounted turn buckles.

Cover for cross-over

St FS DD



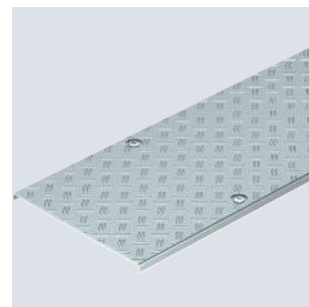
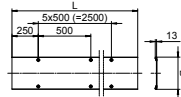
Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFK 400 FS	400	1.25	1	624.000	7128673
DFK 500 FS	500	1.25	1	810.000	7128703
DFK 600 FS	600	1.25	1	1,020.000	7128738
DFK 400 DD	400	1.25	1	739.000	7131143
DFK 500 DD	500	1.25	1	965.000	7131178
DFK 600 DD	600	1.25	1	1,215.000	7131194

The cover can be used with fittings of all side heights.
Cover for cross-over with pre-mounted turn buckles.

St Alu/ St DD

Cover with chequer plate and turn buckle

Type	Dim. B mm	Dim. L mm	Metal 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
DBKR 100 DD	100	3000	3.30	3	195.066	6049140
DBKR 200 DD	200	3000	3.30	3	352.066	6049141
DBKR 300 DD	300	3000	3.30	3	509.066	6049142
DBKR 400 DD	400	3000	3.30	3	666.066	6049143
DBKR 500 DD	500	3000	3.30	3	823.066	6049144
DBKR 600 DD	600	3000	3.30	3	980.066	6049145



Cable tray cover for the walkable BKRS cable tray system. The basic cover is strip galvanized 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.

The covers are tested according to DIN 51130 and possess anti-slip class R10 and displacement space class V8.

The turn buckles for cover mounting are pre-installed.

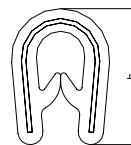
When the cover is used under wind, draught or pressure impacts, additional security measures are required.

Edge protection strips

PVC

Edge protection strip, black

Type	For metal thickness mm	Dim. h mm	Colour	Length mm	Pack m	Weight kg/100 m	Item no.
KSB 2 PVC	0.75-2	10	Black	10000	10	8.000	6072909
KSB 4 PVC	1.5-4	15	Black	10000	10	15.000	6072895



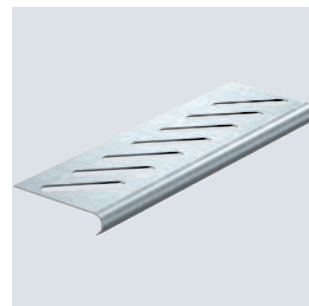
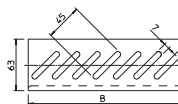
Edge protection strip with steel inlay to cover cut plate ends. Black, UV-resistant version.

Bottom end plates

St FS DD

Bottom end plate

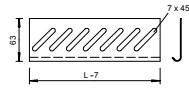
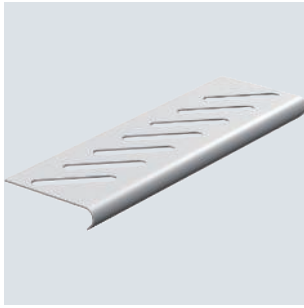
Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
BEB 050 FS	50	1	2.215	7083041
BEB 100 FS	100	1	4.599	7083106
BEB 150 FS	150	1	6.983	7083157
BEB 200 FS	200	1	9.367	7083203
BEB 300 FS	300	1	14.100	7083300
BEB 400 FS	400	1	18.900	7083408
BEB 500 FS	500	1	23.700	7083505
BEB 550 FS	550	1	26.100	7083556
BEB 600 FS	600	1	28.400	7083602
BEB 050 DD	50	1	2.215	7083616
BEB 100 DD	100	1	4.599	7083618
BEB 150 DD	150	1	6.983	7083622
BEB 200 DD	200	1	9.367	7083626
BEB 300 DD	300	1	14.100	7083630
BEB 400 DD	400	1	18.900	7083634
BEB 500 DD	500	1	23.700	7083638
BEB 550 DD	550	1	26.100	7083640
BEB 600 DD	600	1	28.400	7083642



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.

Bottom end plate

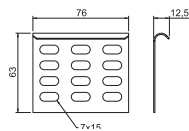


Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
BEB 100 A2	100	1	4.599	7084013
BEB 200 A2	200	1	9.367	7084048
BEB 300 A2	300	1	14.100	7084064
BEB 400 A2	400	1	18.900	7084080
BEB 500 A2	500	1	23.700	7084102
BEB 600 A2	600	1	28.400	7084129
BEB 100 A4	100	1	4.599	7084141
BEB 200 A4	200	1	9.367	7084143
BEB 300 A4	300	1	14.100	7084145
BEB 400 A4	400	1	18.900	7084147
BEB 500 A4	500	1	23.700	7084149
BEB 600 A4	600	1	28.400	7084151

For fastening, please order screws, type FRSB M6x12, separately.
For base reinforcement at the ends of the tray and as cable protection.

Side end panel - SEB 85 FS

Side end panel 85

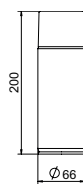


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
SEB 85 FS	85	20	5.240	7083008

Including appropriate fastening material.
Side end plate for side reinforcement at the ends of the cable tray and as cable protection.

Zinc touch-ups

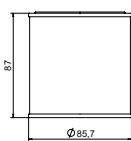
Zinc repairs



Type	Pack Piece	Weight kg/100 pc.	Item no.
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.

Zinc repair paint



Type	Pack Piece	Weight kg/100 pc.	Item no.
ZABF	1	86.000	2362979

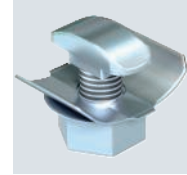
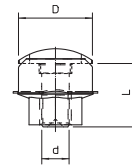
Zinc repair paint for blank areas on the hot galvanised steel parts, to eliminate grinding and welding damage on the galvanisation and to adapt ungalvanised small parts on galvanised structures.
Resistant to normal weathering influences. Light shade, similar to zinc. Before paint application, the substrate must be carefully cleaned and roughened. Paint application with a brush.

St F

Quick connector

Type	Dimen-	Dim.	Dim.	Dim.	Pack	Weight	Item no.
	sion	L	d	D			
	mm	mm	mm	mm	Piece	kg/100 pc.	
FCM F	M6 x 12	12	6	13.5	50	0.720	6424548

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.



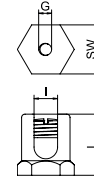
Earthing terminal

CuZn 37

Earthing terminal with fastening thread

Type	Dim.	Dim.	Cross-	Pack	Weight	Item no.
	L	l	section			
	mm	mm	mm ²	Piece	kg/100 pc.	
EKL 25 M8	26	10	50	50	3.970	6404001

Earthing terminal for fastening the equipotential bonding wire to the cable support system.
Suitable for conductor cross sections of 4–50 mm².

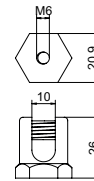


CuZn 37

Earthing terminal with fastening thread

Type	Cross-	Pack	Weight	Item no.
	section			
	mm ²	Piece	kg/100 pc.	
EKL 35 M6 ISK	70	50	4.800	6404016

Earthing terminal for fastening the equipotential bonding conductor to the cable support system.
M14 threaded pin, Allen drive with 6 mm across flats.
Suitable for conductor cross sections of 25–70 mm².



Anti-slip strip

GUM

Anti-slip strip

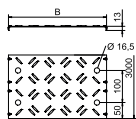
Type	Pack	Weight	Item no.
ARS BKR	11	10.070	6049259

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.



Chequer plate cover DBKR

St FS



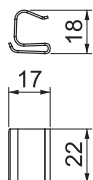
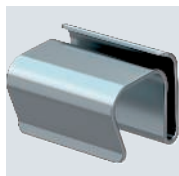
Type	Dim. B mm	Dim. b mm	Dim. L mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
DBKR 100 FS	100	50	3000	3.30	3	195.070	6049119
DBKR 200 FS	200	50	3000	3.30	3	352.067	6049121
DBKR 300 FS	300	50	3000	3.30	3	509.070	6049123
DBKR 400 FS	400	50	3000	3.30	3	666.070	6049125
DBKR 500 FS	500	50	3000	3.30	3	823.070	6049127
DBKR 600 FS	600	50	3000	3.30	3	980.070	6049129

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 a 1.3 mm chequer height.
 Pre-marked break-out openings at a spacing of 100 mm allow reinstallation of a turn buckle.
 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.

Lid clamp

Cover clamp

St G



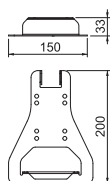
Type	Pack Piece	Weight kg/100 pc.	Item no.
DK DBKR G	30	0.794	6049280

Cover clamp for rapid fastening of the chequer plate cover, type DBKR, on cable trays.
 We recommend using at least 6 cover clamps for 3 metres of chequer plate cover.

Lid lifter

Cover lifter for chequer plate cover

St FS



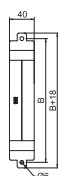
Type	Length mm	Width mm	Height mm	Pack Pair	Weight kg/100 pairs	Item no.
DH DBKR FS	200	150	33	1	22.100	6049285

Using the cover lifter, chequer plate covers installed with cover clamps can be dismantled quickly and simply.
 Position the cover lifter at pairs of the cover clamps and remove the chequer plate cover evenly. Repeat the operation in the lengthwise direction until the whole cover has been removed.
 Alternatively, the cover lifter can be used as a template for the connector perforation with cable trays cut during construction. For this, turn the cover lifter through 180° and position on the cable tray. Then use the perforation template appropriate to the side height.

Dust protection element

Dust protection element and joint plate

St FS



Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
SSE SSLB 100 FS	100	1	1.574	6049290
SSE SSLB 200 FS	200	1	3.145	6049292
SSE SSLB 300 FS	300	1	4.716	6049294
SSE SSLB 400 FS	400	1	6.287	6049296
SSE SSLB 500 FS	500	1	7.858	6049298
SSE SSLB 600 FS	600	1	9.429	6049300

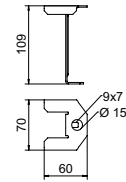
Dust protection element for use between chequer plate covers and aluminium chequer plates for walkable BKRS cable tray systems, as protection against dust and chips, etc.
 The component can alternatively be used as a joint plate in the walkable cable tray, to bridge construction interfaces.

St FS

Cover support 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
DST110 BKRS FS	110	10	11.200	6049256

Cover support for the walkable BKRS cable tray system, for additional support of covers at a side height of 110 mm.



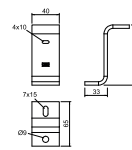
Z support for BKRS

St FT

BKRS Z support

Type	Length mm	Width mm	Height mm	Pack Piece	Weight kg/100 pc.	Item no.
ZST 100 BKRS FT	65	40	88	25	21.700	6044601
ZST 110 BKRS FT	65	40	75	25	18.433	6044603

The Z support is used as a stand-off of the walkable cable tray system. Protective plates can be attached to it using lens metal screws.



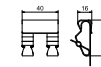
Clamping spring

St G

Clamp spring for stranded cables

Type	Cross-section mm ²	Pack Piece	Weight kg/100 pc.	Item no.
KFL G	35	50	1.731	6049273

Functional equipotential bonding of the cable support system can be created with the clamp spring. The clamp spring is clamped onto the edge of the cable tray and then the conductor cable is clamped into the intended support of the clamp spring. The clamp spring can accept conductor cables of between 10 and 35 mm² and should be mounted every 1,500 mm.



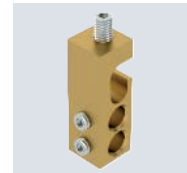
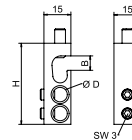
Connection terminal

CuZn 37

Connection terminal, single

Type	Dim. H mm	Dim. B mm	Dim. D mm	Cross-section mm ²	Pack Piece	Weight kg/100 pc.	Item no.
AKL 25 E	40	7	6.5	25	10	5.808	6049276

Simple connection terminal to accept 1 conductor cable, to create the protective equipotential bonding for cable support systems. Mounting on conductor cable, central in clamp spring.

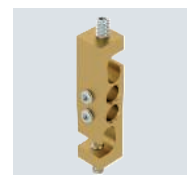
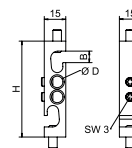


CuZn 37

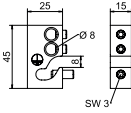
Connection terminal, double

Type	Dim. H mm	Dim. B mm	Dim. D mm	Cross-section mm ²	Pack Piece	Weight kg/100 pc.	Item no.
AKL 25 Z	60	7	6.5	25	10	8.612	6049277

Double connection terminal to accept 2 conductor cables, to create the protective equipotential bonding for cable support systems. Can be used as a junction for branches and intersections. Mounting on conductor cable, central in clamp spring.



Connection terminal, double

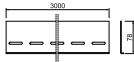


Type	Cross-section mm ²	Weight kg/100 pc.	Item no.
AKL 25 E DM	25	10.491	6049275

Simple connection terminal to accept 1 conductor cable, to create the protective equipotential bonding for cable support systems. Mounting on conductor cable, central in clamp spring.

Protective panel

St FS

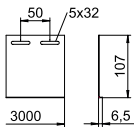
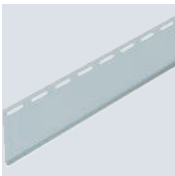


Type	Length mm	Height mm	Thickness mm	Pack m	Weight kg/100 m	Item no.
SB 100 BKS FS	3000	78	1.5	3	93.534	6049241
SB 110 BKS FS	3000	65	1.5	3	78.200	6049243

Protective panel, to be attached at the side as a collision guard for the walkable cable tray system. The protective panel can be installed on the Z supports using lens metal screws, type SPHS.

Protective panel 108

St FS



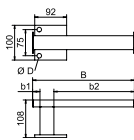
Type	Length mm	Height mm	Thickness mm	Pack m	Weight kg/100 m	Item no.
SB BKS FS	3000	108	1	3	91.670	6049252

Protective panel, to be attached at the side as a collision guard for the walkable BKRS cable tray system. The side height is 108 mm.

Support bracket

BKRS support bracket

St FT

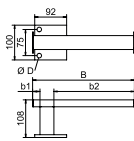


Type	Dim. B mm	Dim. b1 mm	Dim. b2 mm	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
STA BKRS 300 FT	292	23	229	300	1	122.700	6044545
STA BKRS 400 FT	392	23	329	400	1	138.700	6044547
STA BKRS 500 FT	492	123	329	500	1	155.700	6044551
STA BKRS 600 FT	592	223	329	600	1	172.700	6044553

Support bracket, made of closed rectangular steel pipe, as a stand-off of the walkable cable tray system.

BKRS support bracket

St FT



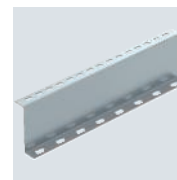
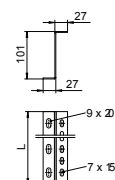
Type	Dim. B mm	Dim. b1 mm	Dim. b2 mm	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
STA BKRS 100 FT	92	11	61	100	1	83.700	6044541
STA BKRS 200 FT	192	11	161	200	1	100.700	6044543

Support bracket, made of closed rectangular steel pipe, as a stand-off of the walkable cable tray system.

St FS

Type	Dim. L mm	Metal thick- ness mm	Pack Piece	Weight kg/100 pc.	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	127.340	6044591
STP Z 10300 FS	3000	2.00	3	223.400	6044596

Support profile 100



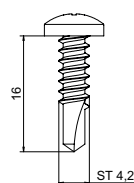
Support profile for holding up the walkable cable tray system BKRS from the floor. Installation must be performed on both sides of the Z profile during the process of securing the system so that it is held up.

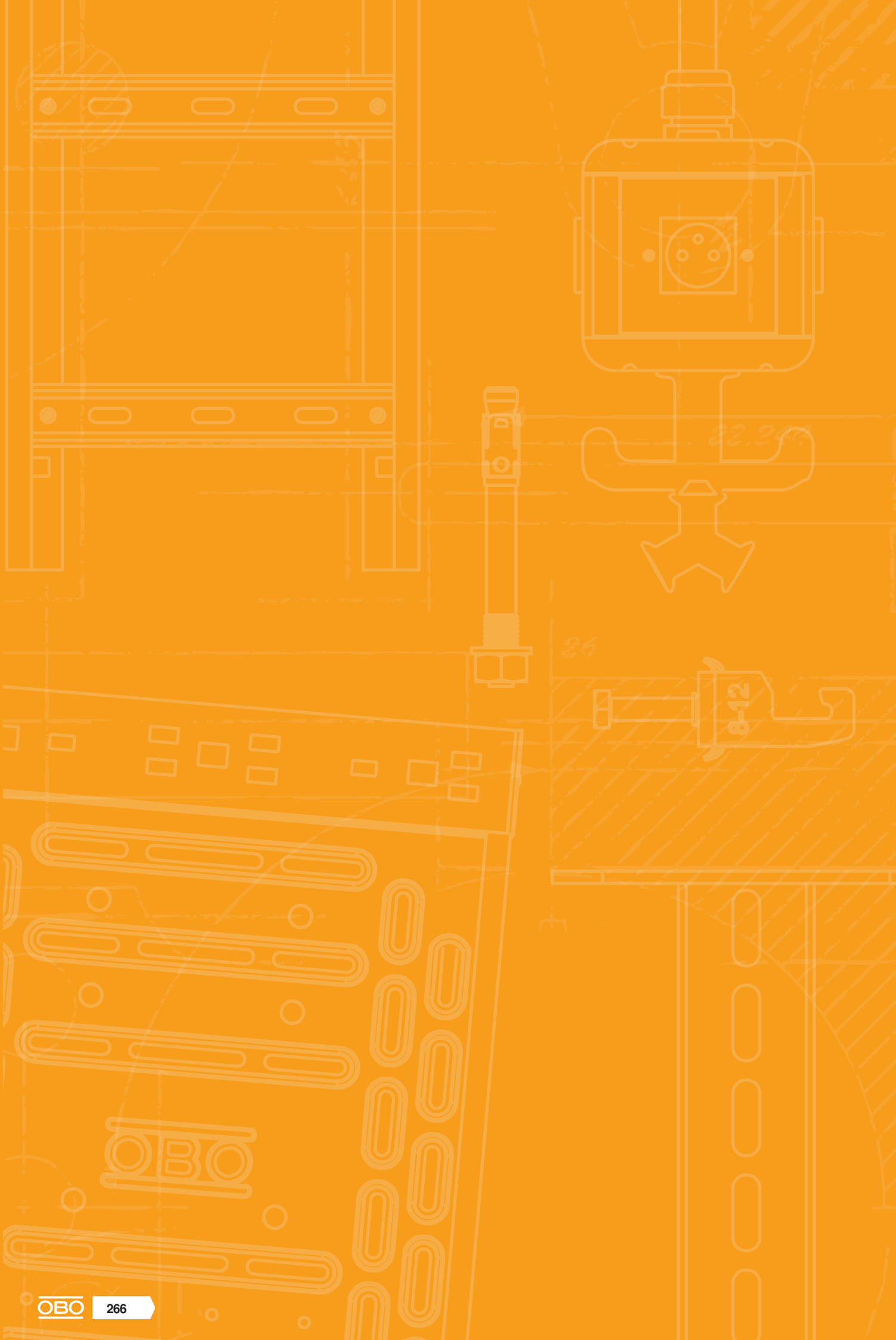
Drilling screw

St G

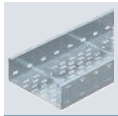
Type	Dimen- sion mm	Pack Piece	Weight kg/100 pc.	Item no.
BS BKS KP	4,2x16	100	0.180	6049250

Drilling screw to fasten components to the stand-offs of the walkable cable tray system. Corresponds to DIN 7504.





Wide span systems



Wide span trays

268



Wide span ladders

286





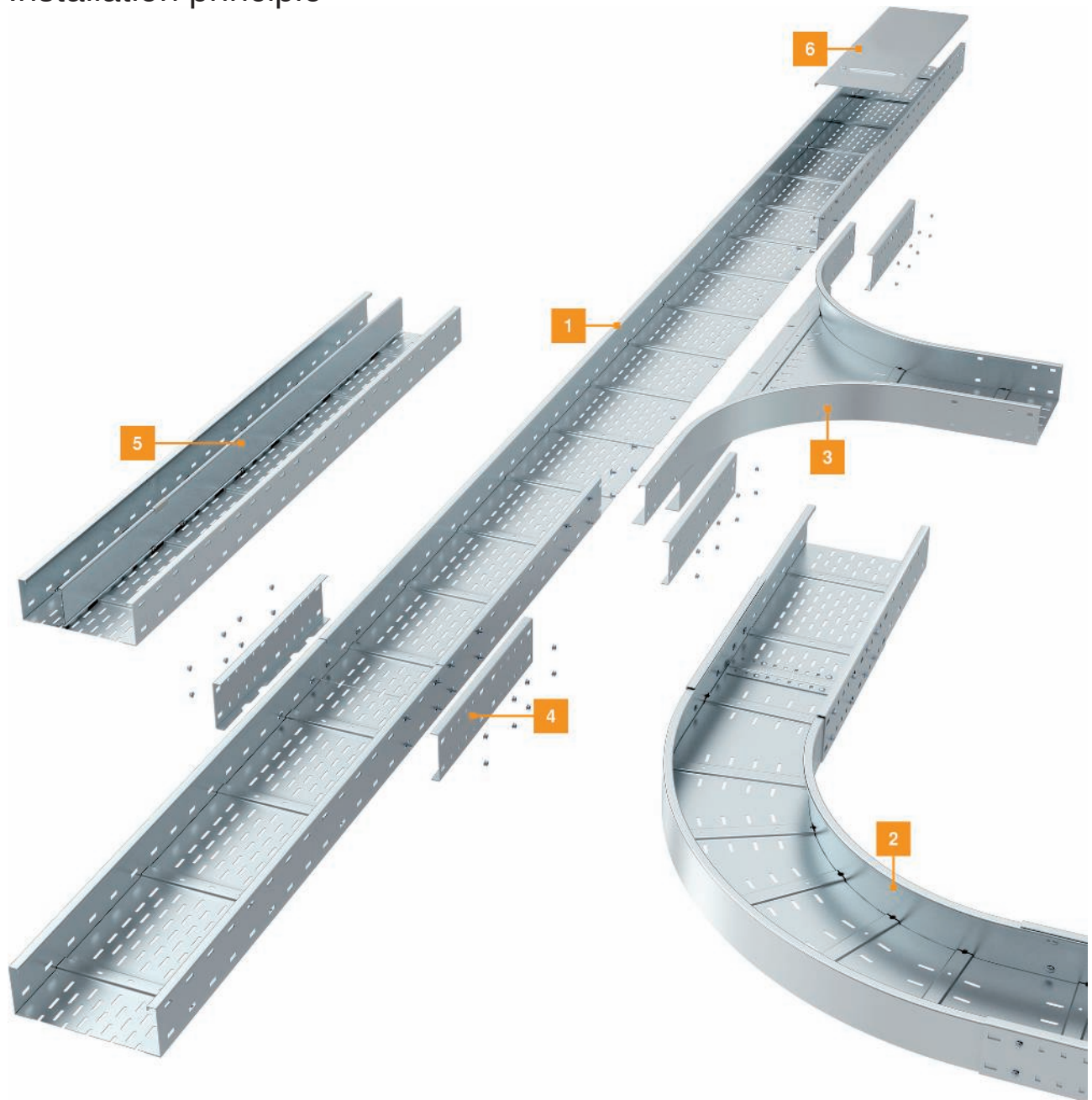
Wide span cable tray systems

When you need to bridge wide spans and support high cable loads, the OBO wide span systems are the perfect solution. The product range comprises cable trays and cable ladders with widths of between 200 and 600 mm and side heights of 110 to 200 mm. Comprehensive system accessories, such as fittings and all the fastening materials for concrete and steel mounting, round off this product range perfectly.



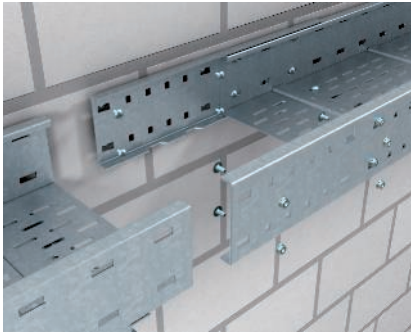
Wide span cable tray systems

Installation principle



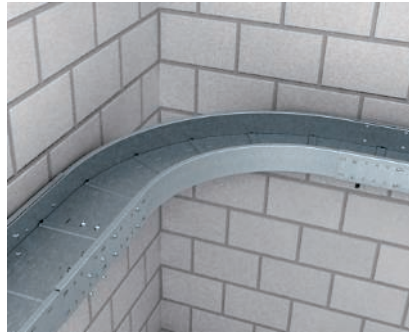
- | | |
|---|------------------------|
| 1 | Wide span cable tray |
| 2 | 90° bend |
| 3 | Add-on tee |
| 4 | Straight connector |
| 5 | Barrier strip |
| 6 | Cover with turn buckle |

Mounting aid



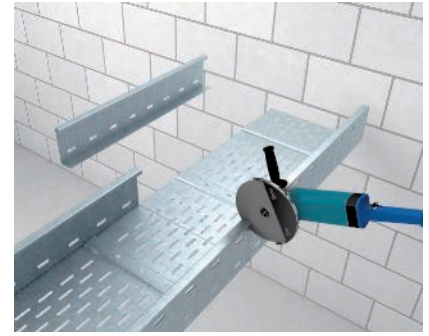
Wide span straight connection

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



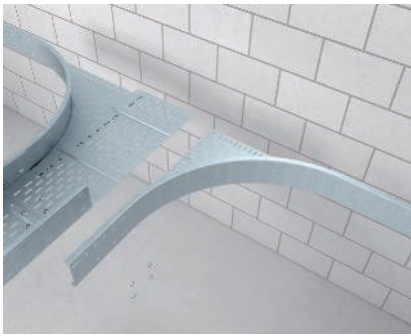
Installation of 90° bend

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



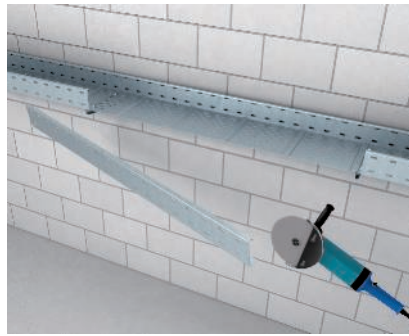
Creation of a tee with add-on corner

Removal of the side rails from the wide span tray.



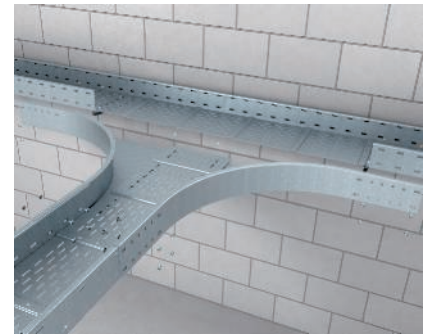
Creation of a tee with add-on corner

Installation of the second add-on corner, type WEAS 110.



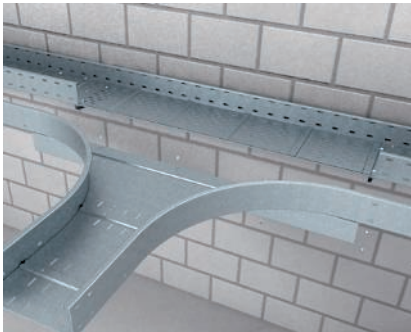
Creation of a tee with add-on corner

Removal of the side rail from the ongoing wide span tray.



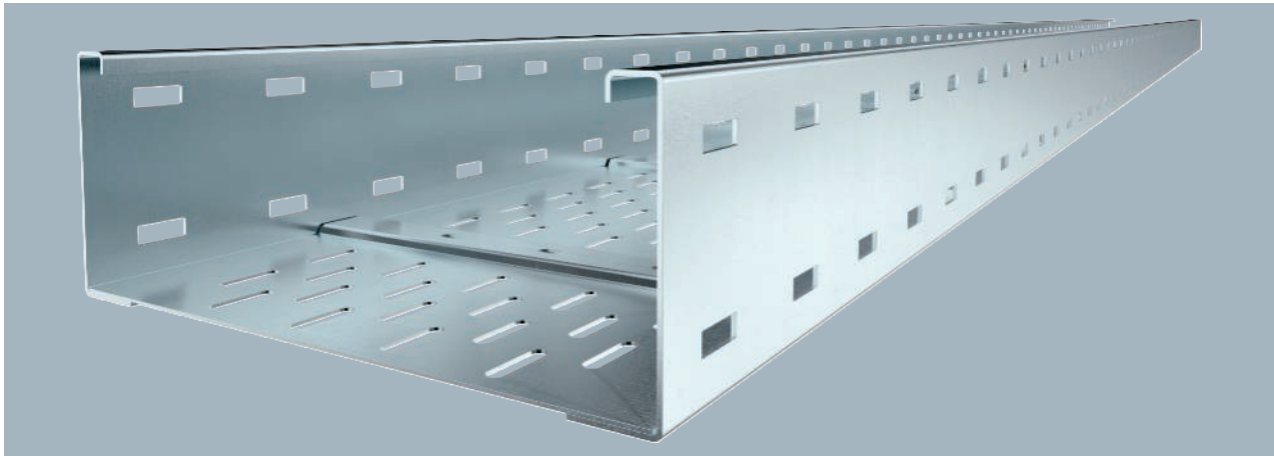
Creation of a tee with add-on corner

Installation of the finished branch to the ongoing wide span tray.



Mounting of mounting/branch piece

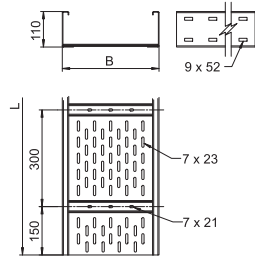
Add-on tee in combination with wide span cable tray. The side rail is removed for installation.



Wide span cable tray system, perforated, with a side height of 110 mm.
Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

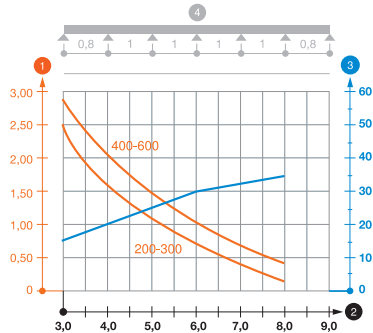
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
WKSG 120 FS	200	2.00	6	712.610	6098111
WKSG 130 FS	300	2.00	6	817.250	6098115
WKSG 140 FS	400	2.00	6	921.900	6098119
WKSG 150 FS	500	2.00	6	1,023.340	6098123
WKSG 160 FS	600	2.00	6	1,131.170	6098127

Dimensions



Type	Dim. L mm	Dim. B mm	Usable 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



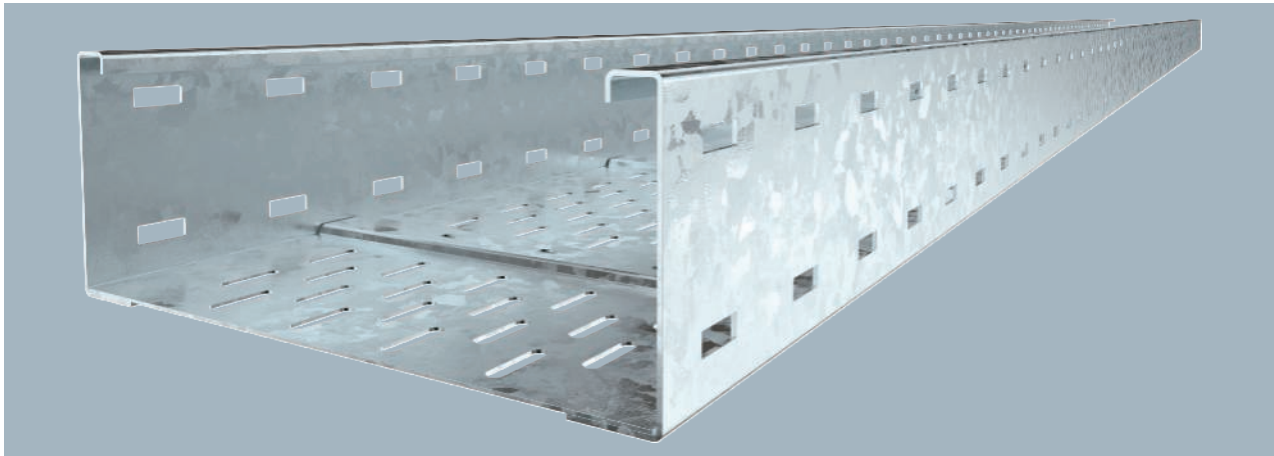
	3.0 m	4.0 m	5.0 m	6.0 m	7.0 m	8.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m	kN/m
WKSG 120 FS	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 130 FS	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 140 FS	2.9	2	1.5	1	0.7	0.4
WKSG 150 FS	2.9	2	1.5	1	0.7	0.4
WKSG 160 FS	2.9	2	1.5	1	0.7	0.4

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

St FT



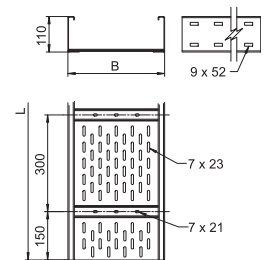
Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
WKSG 120 FT	200	2.00	6	751.570	6098141
WKSG 130 FT	300	2.00	6	863.150	6098145
WKSG 140 FT	400	2.00	6	974.740	6098149
WKSG 150 FT	500	2.00	6	1,086.320	6098153
WKSG 160 FT	600	2.00	6	1,197.890	6098157

Wide span cable tray system, perforated, with a side height of 110 mm.

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

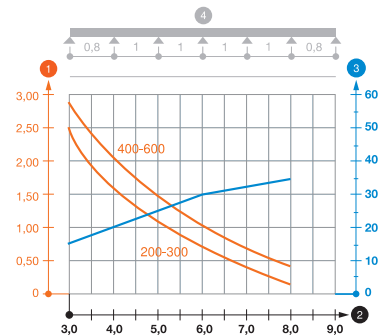
Type	Dim. L mm	Dim. B mm	Usable cross- section cm ²
WKSG 120 FT	6000	200	202
WKSG 130 FT	6000	300	305
WKSG 140 FT	6000	400	408
WKSG 150 FT	6000	500	511
WKSG 160 FT	6000	600	614

Dimensions



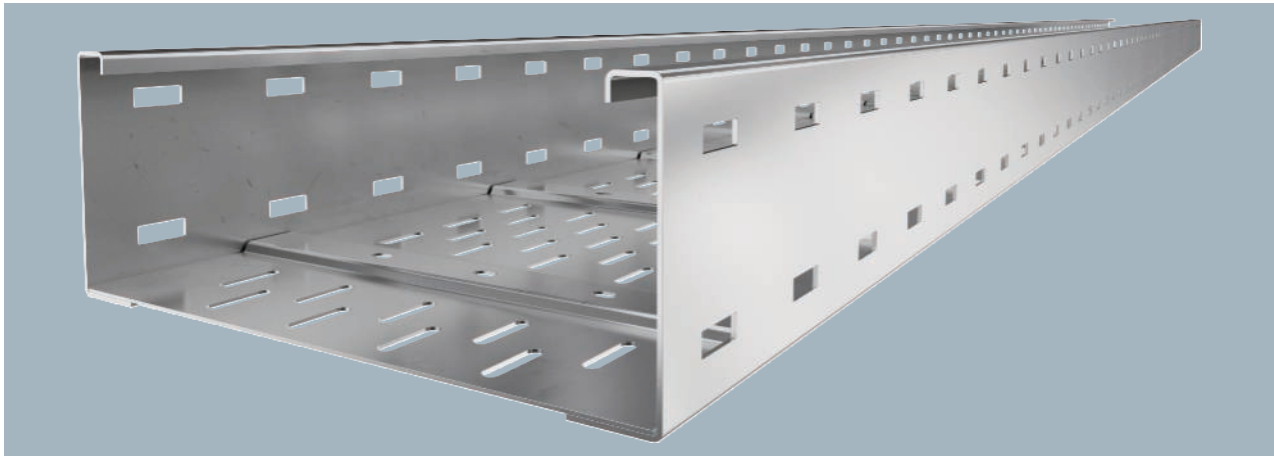
	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKSG 120 FT	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 130 FT	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 140 FT	2.9	2	1.5	1	0.7	0.4
WKSG 150 FT	2.9	2	1.5	1	0.7	0.4
WKSG 160 FT	2.9	2	1.5	1	0.7	0.4

Load



Load diagram, wide span cable tray, type WKSG 110

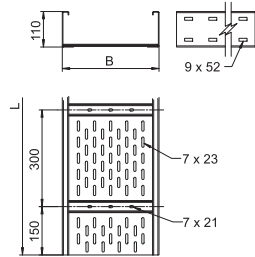
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



Wide span cable tray system, perforated, with a side height of 110 mm.
Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

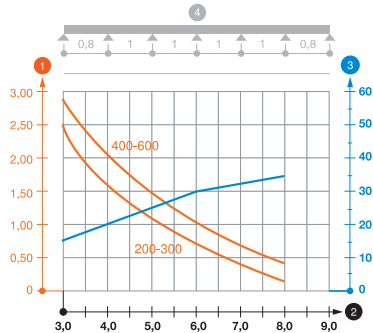
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
WKSG 120 A2	200	2.00	6	713.833	6098161
WKSG 130 A2	300	2.00	6	821.933	6098165
WKSG 140 A2	400	2.00	6	927.100	6098169
WKSG 150 A2	500	2.00	6	1,041.600	6098173
WKSG 160 A2	600	2.00	6	1,143.283	6098177

Dimensions



Type	Dim. L mm	Dim. B mm	Usable 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

Load



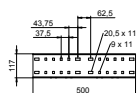
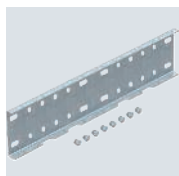
	3.0 m	4.0 m	5.0 m	6.0 m	7.0 m	8.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m	kN/m
WKSG 120 A2	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 130 A2	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 140 A2	2.9	2	1.5	1	0.7	0.4
WKSG 150 A2	2.9	2	1.5	1	0.7	0.4
WKSG 160 A2	2.9	2	1.5	1	0.7	0.4

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 110

St FS FT



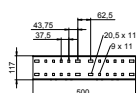
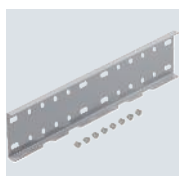
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 110 FS	110	2	152.400	6091164
WRVL 110 FT	110	2	157.800	6091180

Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 110 mm.

Including appropriate bolts, washers and nuts.

Straight connector 110

A2 A4 2B



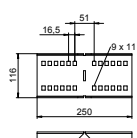
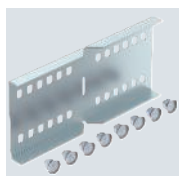
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 110 A2	110	2	154.200	6091229
WRVL 110 A4	110	2	154.400	6091234

Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 110 mm.

Including appropriate bolts, washers and nuts.

Angle connector 110

St FS



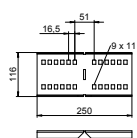
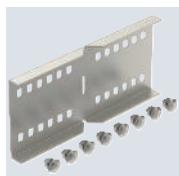
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 110 FS	110	2	83.800	6091377

Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 110 mm.

Angle connector 110

A2 A4 2B



Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 110 A2	110	2	82.000	6091393
WRWVK 110 A4	110	2	82.000	6091397

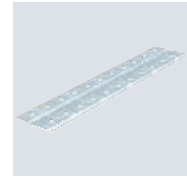
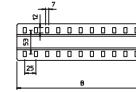
Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 110 mm.

St FS DD

Joint plate

Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
SSLB 100 FS	100	20	7.700	7070205
SSLB 150 FS	150	20	14.000	7070209
SSLB 200 FS	200	20	18.500	7070213
SSLB 300 FS	300	20	29.200	7070217
SSLB 400 FS	400	20	38.200	7070221
SSLB 500 FS	500	20	49.000	7070225
SSLB 550 FS	550	20	53.500	7070229
SSLB 600 FS	600	20	58.000	7070233
SSLB 100 DD	100	20	7.700	7070306
SSLB 150 DD	150	20	14.000	7070310
SSLB 200 DD	200	20	18.500	7070314
SSLB 300 DD	300	20	29.200	7070318
SSLB 400 DD	400	20	38.200	7070322
SSLB 500 DD	500	20	49.000	7070326
SSLB 550 DD	550	20	53.500	7070330
SSLB 600 DD	600	20	58.000	7070334

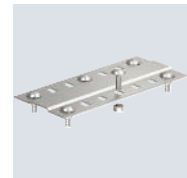
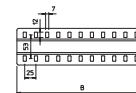


Wide joint plate for use in all cable trays and wide span cable trays.
Including appropriate fastening material.

A2 A4 2B

Joint plate

Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
SSLB 100 A2	100	20	7.700	7070353
SSLB 200 A2	200	20	18.500	7070361
SSLB 300 A2	300	20	29.200	7070365
SSLB 400 A2	400	20	38.200	7070369
SSLB 500 A2	500	20	49.000	7070373
SSLB 600 A2	600	20	58.000	7070381
SSLB 100 A4	100	20	7.700	7070390
SSLB 200 A4	200	20	18.500	7070392
SSLB 300 A4	300	20	29.200	7070394
SSLB 400 A4	400	20	38.200	7070396
SSLB 500 A4	500	20	49.000	7070398
SSLB 600 A4	600	20	58.000	7070400

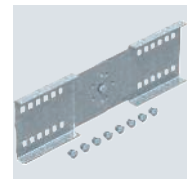
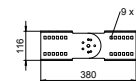


Wide joint plate for use in all cable trays and wide span cable trays.
Including appropriate fastening material.

St FS FT

Adjustable connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 110 FS	110	2	119.000	6091318
WRGV 110 FT	110	2	119.000	6091334

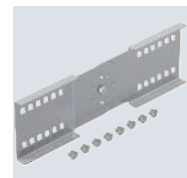
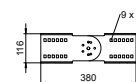


Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.
Including appropriate bolts, washers and nuts.

A2 A4 2B

Adjustable connector 110

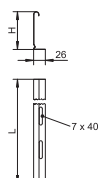
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 110 A2	110	2	120.000	6091338
WRGV 110 A4	110	2	120.000	6091343



Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.
Including appropriate bolts, washers and nuts.

Separating retainer 85

St FS DD

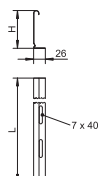


Type	Metal			Pack m	Weight kg/100 m	Item no.
	Dim. H mm	thick- ness mm	Dim. L mm			
TSG 85 FS	85	0.75	3000	3	70.233	6062114
TSG 85 DD	85	0.75	3000	3	70.300	6062331

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

Barrier strip 85

A2 2B

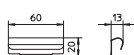


Type	Metal			Pack m	Weight kg/100 m	Item no.
	Dim. H mm	thick- ness mm	Dim. L mm			
TSG 85 A2	85	0.75	3000	3	74.958	6062173

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

Separating retainer connector

VA 2B

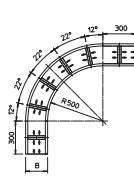
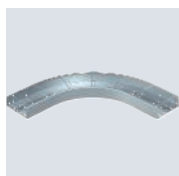


Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

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

90° bend 110

St FS FT



Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
WRB 90 120 FS	110	200	1	1,145.500	6098304
WRB 90 130 FS	110	300	1	1,428.000	6098308
WRB 90 140 FS	110	400	1	1,652.400	6098312
WRB 90 150 FS	110	500	1	1,935.000	6098316
WRB 90 160 FS	110	600	1	2,234.000	6098320
WRB 90 120 FT	110	200	1	1,208.200	6098344
WRB 90 130 FT	110	300	1	1,505.000	6098348
WRB 90 140 FT	110	400	1	1,747.400	6098352
WRB 90 150 FT	110	500	1	2,043.000	6098356
WRB 90 160 FT	110	600	1	2,360.000	6098360

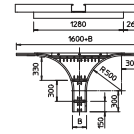
90° bend, horizontal, for all wide span cable trays of 110 mm side height.

For further stabilisation, additional supports should be planned for the area of the fittings.

St FS FT

Add-on tee 110

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
WRAA 120 FS	110	200	1	1,475.000	6098405
WRAA 130 FS	110	300	1	1,605.000	6098409
WRAA 140 FS	110	400	1	1,735.000	6098413
WRAA 150 FS	110	500	1	1,865.000	6098417
WRAA 160 FS	110	600	1	1,995.000	6098421
WRAA 120 FT	110	200	1	1,545.000	6098445
WRAA 130 FT	110	300	1	1,680.000	6098449
WRAA 140 FT	110	400	1	1,820.000	6098453
WRAA 150 FT	110	500	1	1,955.000	6098457
WRAA 160 FT	110	600	1	2,080.000	6098461

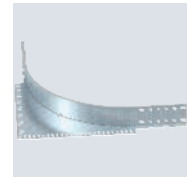
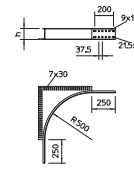


Add-on tee for horizontal use. For all wide span cable trays of 110 mm side height.
For further stabilisation, additional supports should be planned for the area of the fittings.

St FS FT

Corner extension piece 110

Type	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WEAS 110 FS	110	1	485.500	6098475
WEAS 110 FT	110	1	586.200	6098479

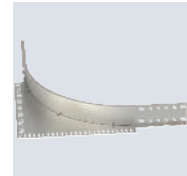
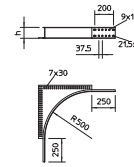


Corner extension piece for wide span cable trays and ladders with a side height of 110 mm.

A2 2B

Corner extension piece 110

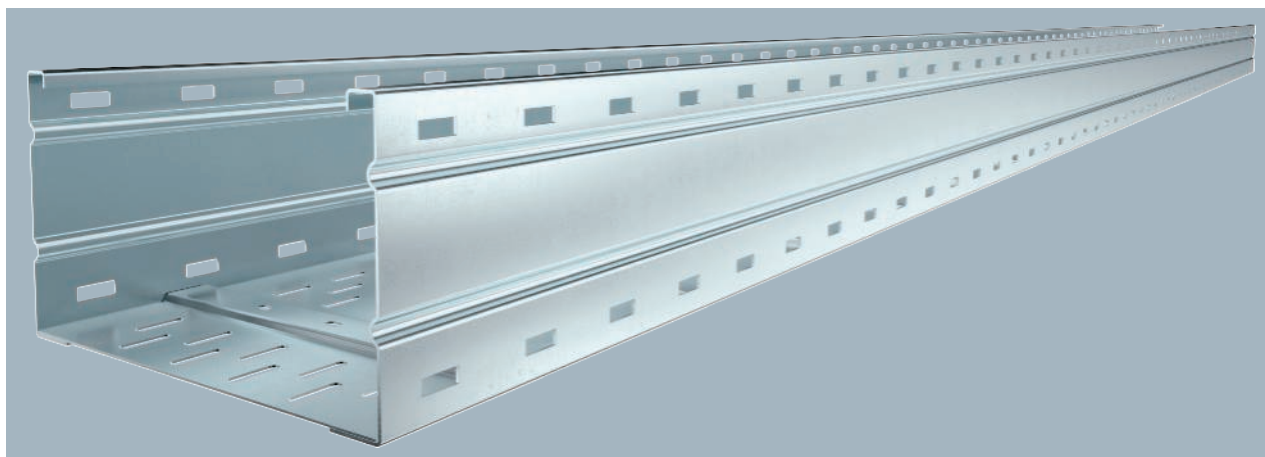
Type	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WEAS 110 A2	110	1	485.500	6098483



Corner extension piece for wide span cable trays and ladders with a side height of 110 mm.

Wide span cable tray WKSG 160

St FS



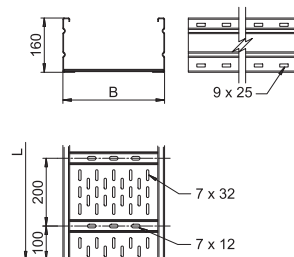
Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
WKSG 162 FS	200	2.00	6	895.067	6098501
WKSG 163 FS	300	2.00	6	1,003.170	6098505
WKSG 164 FS	400	2.00	6	1,108.340	6098509
WKSG 165 FS	500	2.00	6	1,216.420	6098513
WKSG 166 FS	600	2.00	6	1,324.500	6098517

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	Dim. L mm	Dim. B mm	Usable 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

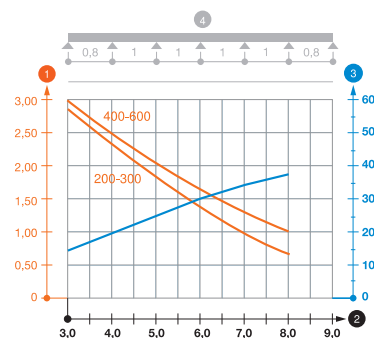


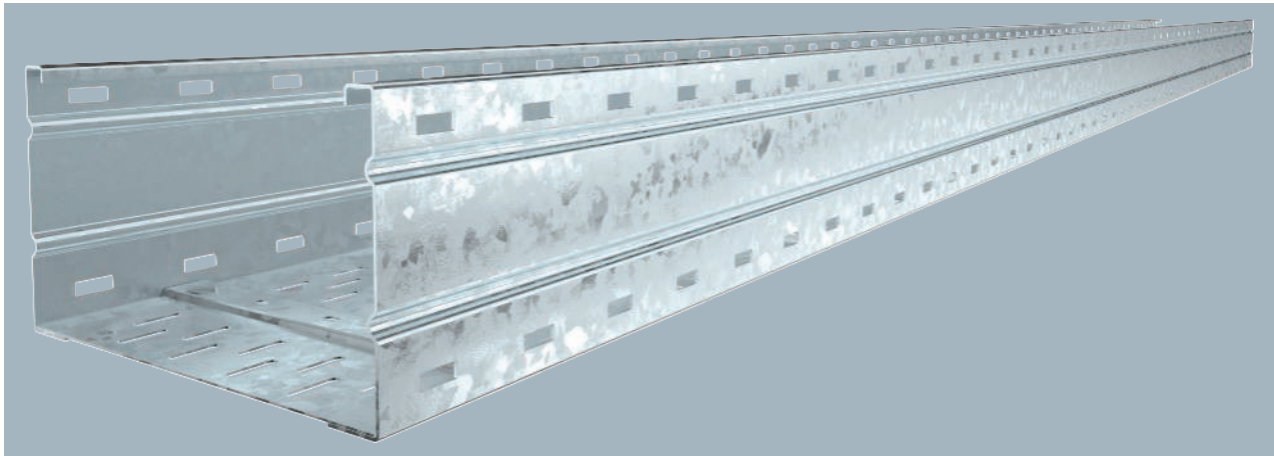
	3.0 m	4.0 m	5.0 m	6.0 m	7.0 m	8.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m	kN/m
WKSG 162 FS	2.9	2.3	1.8	1.4	1	0.7
WKSG 163 FS	2.9	2.3	1.8	1.4	1	0.7
WKSG 164 FS	3	2.5	2	1.6	1.3	1
WKSG 165 FS	3	2.5	2	1.6	1.3	1
WKSG 166 FS	3	2.5	2	1.6	1.3	1

Load

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

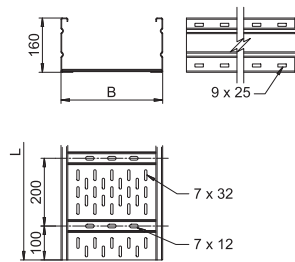




Straight connectors of type WRV 160 should be ordered separately and in the appropriate quantity.
Wide span cable tray system, perforated, with a side height of 160 mm.

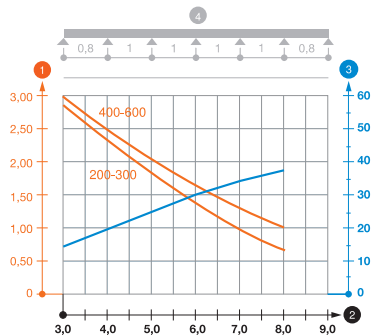
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
WKSG 162 FT	200	2.00	6	920.450	6098550
WKSG 163 FT	300	2.00	6	1,058.370	6098554
WKSG 164 FT	400	2.00	6	1,170.520	6098558
WKSG 165 FT	500	2.00	6	1,285.770	6098562
WKSG 166 FT	600	2.00	6	1,401.040	6098566

Dimensions



Type	Dim. L mm	Dim. B mm	Usable cross-section cm ²
WKSG 162 FT	6000	200	302
WKSG 163 FT	6000	300	455
WKSG 164 FT	6000	400	608
WKSG 165 FT	6000	500	761
WKSG 166 FT	6000	600	914

Load

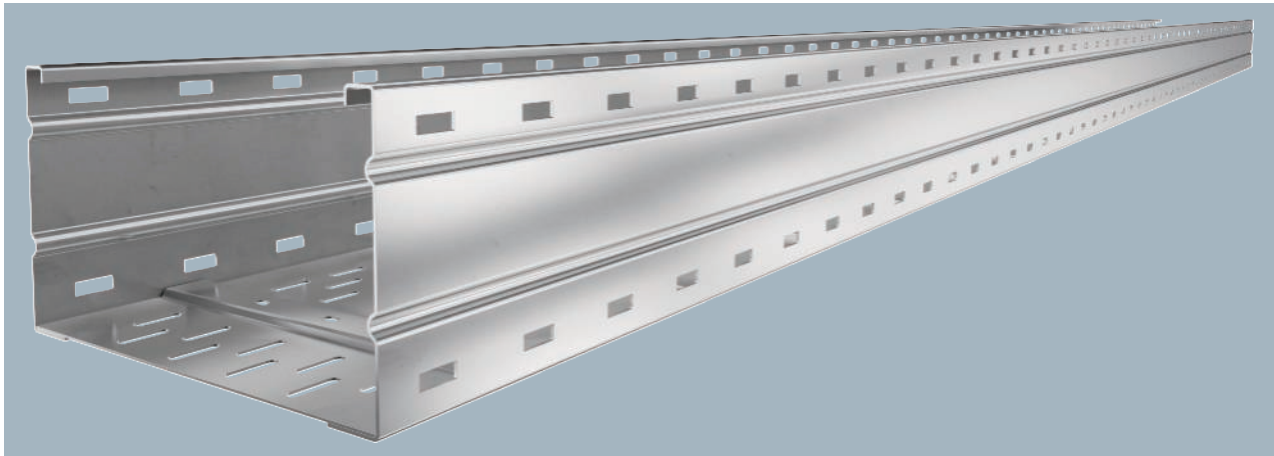


	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKSG 162 FT	1.8	1.4	1	0.7
WKSG 163 FT	1.8	1.4	1	0.7
WKSG 164 FT	2	1.6	1.3	1
WKSG 165 FT	2	1.6	1.3	1
WKSG 166 FT	2	1.6	1.3	1

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



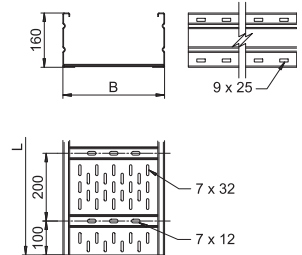
Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
WKSG 162 A2	200	2.00	6	895.067	6098571
WKSG 163 A2	300	2.00	6	1,003.167	6098573
WKSG 164 A2	400	2.00	6	1,108.333	6098575
WKSG 165 A2	500	2.00	6	1,216.417	6098577
WKSG 166 A2	600	2.00	6	1,324.170	6098579

Straight connectors of type WRVL 160 should be ordered separately and in the appropriate quantity.

Wide span cable tray system, perforated, with a side height of 160 mm.

Type	Dim. L mm	Dim. B mm	Usable 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

Dimensions

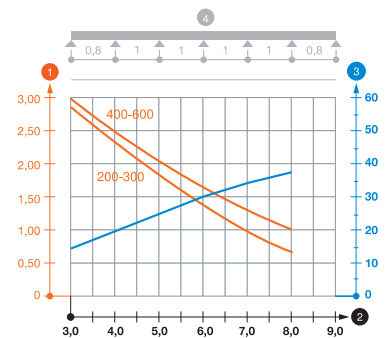


	3.0 m	4.0 m	5.0 m	6.0 m	7.0 m	8.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m	kN/m
WKSG 162 A2	2.9	2.3	1.8	1.4	1	0.7
WKSG 163 A2	2.9	2.3	1.8	1.4	1	0.7
WKSG 164 A2	3	2.5	2	1.6	1.3	1
WKSG 165 A2	3	2.5	2	1.6	1.3	1
WKSG 166 A2	3	2.5	2	1.6	1.3	1

Load

Load diagram, wide span cable tray, type WKSG 160

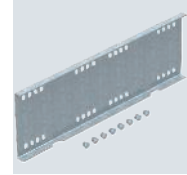
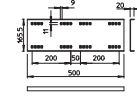
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



St FS FT

Straight connector 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 160 FS	160	2	218.000	6227708
WRVL 160 FT	160	2	218.000	6227716

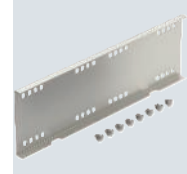
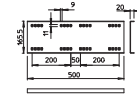


Straight connector for the connection of wide span cable trays and ladders of types WKSG and WKLG with a side height of 160 mm.
Including appropriate bolts, washers and nuts.

A2 A4 2B

Straight connector 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 160 A2	160	2	218.000	6227724
WRVL 160 A4	160	2	250.000	6227730

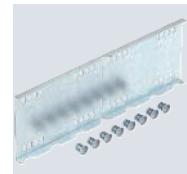
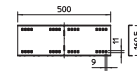


Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 160 mm.
Including appropriate bolts, washers and nuts.

St FS

Angle connector 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 160 FS	160	2	199.800	6227832

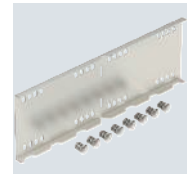
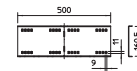


Including appropriate bolts, washers and nuts.
Angle connector for wide span cable trays and ladders with a side height of 160 mm.

A2 2B

Angle connector 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 160 A2	160	2	199.800	6227836

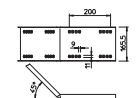


Including appropriate bolts, washers and nuts.
Angle connector for wide span cable trays and ladders with a side height of 160 mm.

St FS FT

45° angle connector, horizontal, internal 160

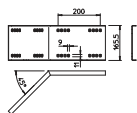
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 160 I FS	160	1	234.000	6227902
WRWV 160 I FT	160	1	234.000	6227910



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, external 160

St FS FT



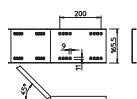
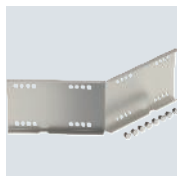
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 160 A FS	160	1	234.000	6227856
WRWV 160 A FT	160	1	234.000	6227864

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, internal 160

A2 2B



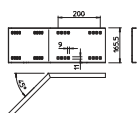
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 160 I A2	160	1	239.000	6227914

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, external 160

A2 2B



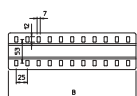
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 160 A A2	160	1	234.000	6227868

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

St FS DD



Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
SSLB 100 FS	100	20	7.700	7070205
SSLB 150 FS	150	20	14.000	7070209
SSLB 200 FS	200	20	18.500	7070213
SSLB 300 FS	300	20	29.200	7070217
SSLB 400 FS	400	20	38.200	7070221
SSLB 500 FS	500	20	49.000	7070225
SSLB 550 FS	550	20	53.500	7070229
SSLB 600 FS	600	20	58.000	7070233
SSLB 100 DD	100	20	7.700	7070306
SSLB 150 DD	150	20	14.000	7070310
SSLB 200 DD	200	20	18.500	7070314
SSLB 300 DD	300	20	29.200	7070318
SSLB 400 DD	400	20	38.200	7070322
SSLB 500 DD	500	20	49.000	7070326
SSLB 550 DD	550	20	53.500	7070330
SSLB 600 DD	600	20	58.000	7070334

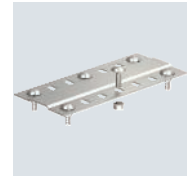
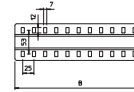
Wide joint plate for use in all cable trays and wide span cable trays.

Including appropriate fastening material.

A2 A4 2B

Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
SSLB 100 A2	100	20	7.700	7070353
SSLB 200 A2	200	20	18.500	7070361
SSLB 300 A2	300	20	29.200	7070365
SSLB 400 A2	400	20	38.200	7070369
SSLB 500 A2	500	20	49.000	7070373
SSLB 600 A2	600	20	58.000	7070381
SSLB 100 A4	100	20	7.700	7070390
SSLB 200 A4	200	20	18.500	7070392
SSLB 300 A4	300	20	29.200	7070394
SSLB 400 A4	400	20	38.200	7070396
SSLB 500 A4	500	20	49.000	7070398
SSLB 600 A4	600	20	58.000	7070400

Joint plate

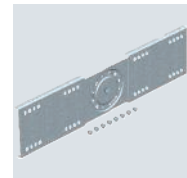
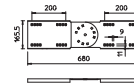


Wide joint plate for use in all cable trays and wide span cable trays. Including appropriate fastening material.

St FS FT

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 160 FS	160	2	306.100	6227953
WRGV 160 FT	160	2	316.700	6227961

Adjustable connector 160

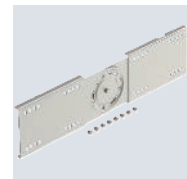
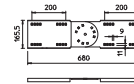


Adjustable connector for wide span cable trays and ladders with a side height of 160 mm. Including appropriate bolts, washers and nuts.

A2 2B

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 160 A2	160	2	300.200	6227965

Adjustable connector 160

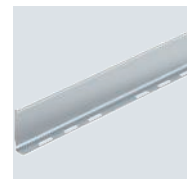
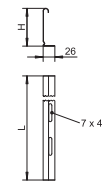


Adjustable connector for wide span cable trays and ladders with a side height of 160 mm. Including appropriate bolts, washers and nuts.

St FS DD

Type	Dim. H mm	Metal thickness mm	Dim. L mm	Pack	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

Separating retainer 110

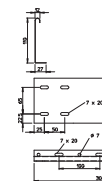


Separating retainer for separation of cables of different voltages or functions.

A2 2B

Type	Dim. H mm	Metal thickness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 110 A2	110	0.75	3000	3	90.684	6062255

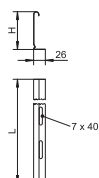
Barrier strip 110



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

Separating retainer 135

St FS DD



Type	Metal			Pack m	Weight kg/100 m	Item no.
	Dim. H	thick- ness	Dim. L			
TSG 135 FS	135	0.75	3000	3	99.800	6062132
TSG 135 DD	135	0.75	3000	3	100.000	6062338

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

Separating retainer connector

VA 2B

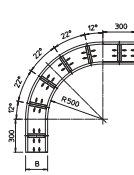
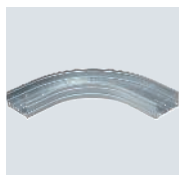


Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

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

90° bend 160

St FS FT

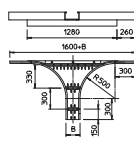
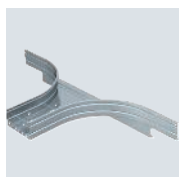


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
WRB 90 162 FS	160	200	1	1,390.000	6098703
WRB 90 163 FS	160	300	1	1,664.000	6098707
WRB 90 164 FS	160	400	1	1,920.000	6098711
WRB 90 165 FS	160	500	1	2,214.000	6098715
WRB 90 166 FS	160	600	1	2,526.000	6098719
WRB 90 162 FT	160	200	1	1,460.000	6098730
WRB 90 163 FT	160	300	1	1,751.000	6098734
WRB 90 164 FT	160	400	1	2,023.000	6098738
WRB 90 165 FT	160	500	1	2,335.000	6098742
WRB 90 166 FT	160	600	1	2,667.000	6098746

90° bend, horizontal, for all wide span cable trays of 160 mm side height.
For further stabilisation, additional supports should be planned for the area of the fittings.

Add-on tee 160

St FS FT



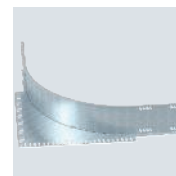
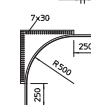
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
WRAA 162 FS	160	200	1	1,783.000	6098800
WRAA 163 FS	160	300	1	1,938.000	6098804
WRAA 164 FS	160	400	1	2,075.000	6098808
WRAA 165 FS	160	500	1	2,240.000	6098812
WRAA 166 FS	160	600	1	2,350.000	6098816
WRAA 162 FT	160	200	1	1,865.000	6098827
WRAA 163 FT	160	300	1	2,026.000	6098831
WRAA 164 FT	160	400	1	2,170.000	6098835
WRAA 165 FT	160	500	1	2,316.000	6098839
WRAA 166 FT	160	600	1	2,460.000	6098843

Add-on tee for horizontal use. For all wide span cable trays of 160 mm side height.
For further stabilisation, additional supports should be planned for the area of the fittings.

St FS FT

Corner extension piece 160

Type	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WEAS 160 FS	160	1	632.000	6098860
WEAS 160 FT	160	1	669.000	6098864

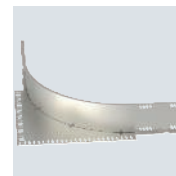
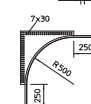


Corner extension piece for wide span cable trays and ladders with a side height of 160 mm.

A2 2B

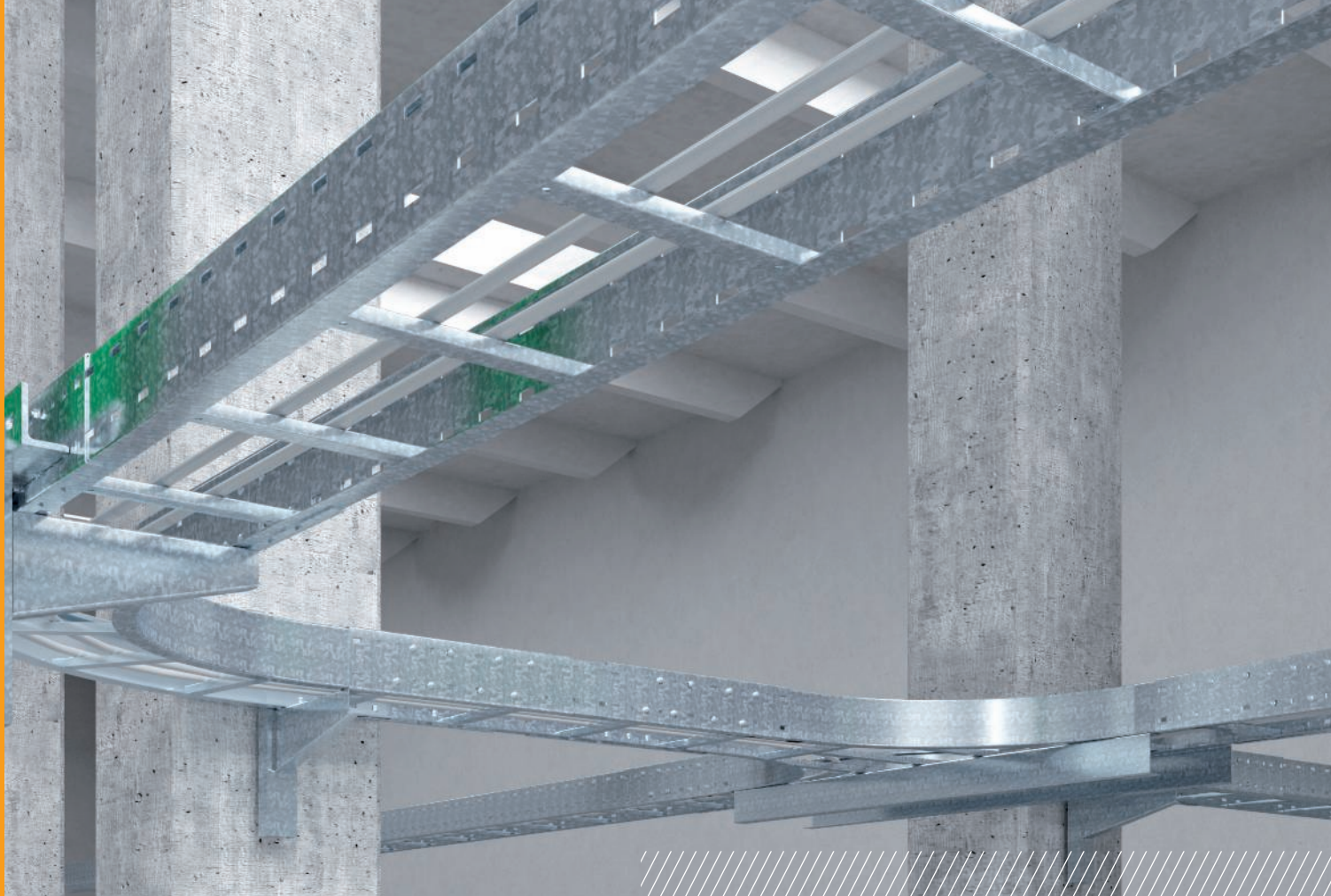
Corner extension piece 160

Type	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WEAS 160 A2	160	1	702.000	6098868



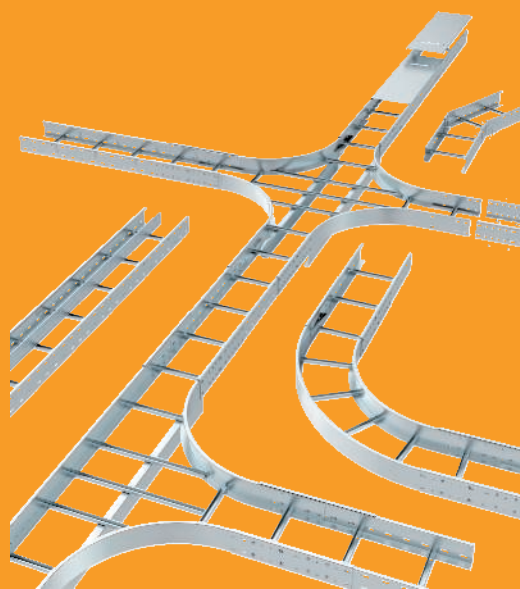
Corner extension piece for wide span cable trays and ladders with a side height of 160 mm.





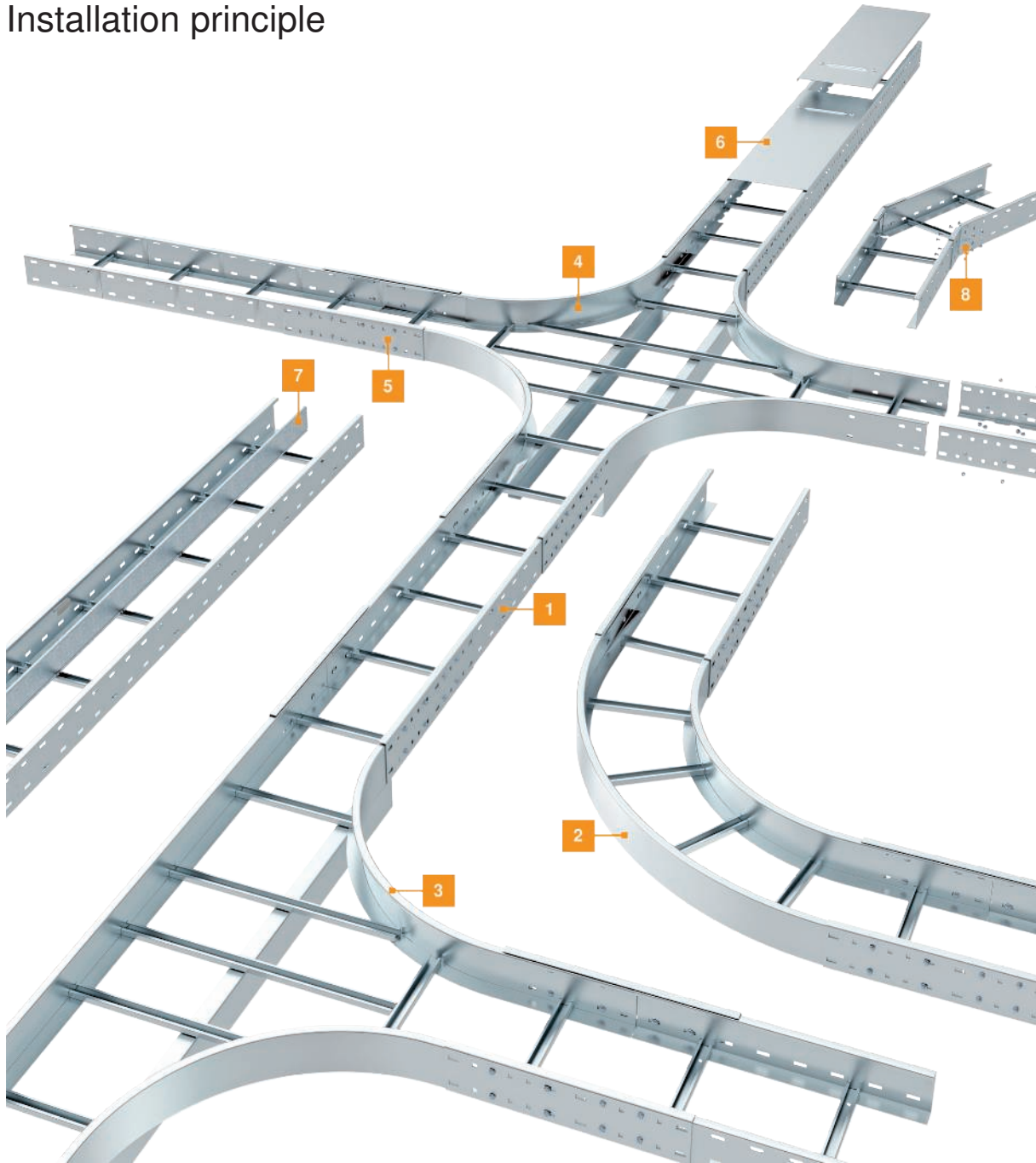
Wide span cable ladder systems

When you need to bridge wide spans and support high cable loads, the OBO wide span systems are the perfect solution. The product range comprises cable trays and cable ladders with widths of between 200 and 600 mm and side heights of 110 to 200 mm. Comprehensive system accessories, such as fittings and all the fastening materials for concrete and steel mounting, round off this product range perfectly.



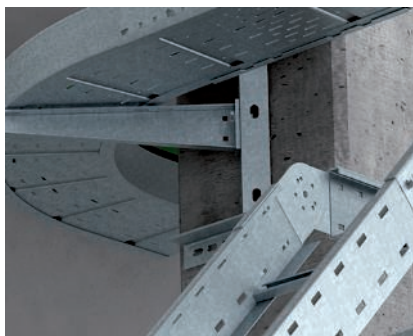
Wide span cable ladder systems

Installation principle



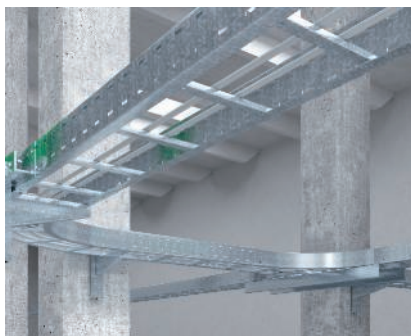
- | | |
|---|-------------------------|
| 1 | Wide span cable ladders |
| 2 | 90° bend |
| 3 | T branch piece |
| 4 | Cross-over |
| 5 | Straight connector |
| 6 | Cover with turn buckle |
| 7 | Barrier strip |
| 8 | Adjustable connector |

Mounting aid



Wide span fittings application

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



Girder clamping application

Mounting of a wide span system clamped to steel girders.



Horizontal wide span angle connection

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



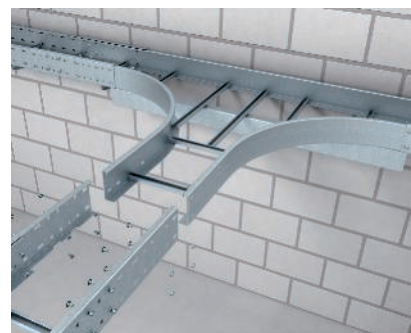
Vertical wide span adjustable connection

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



Installation of 90° bend

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



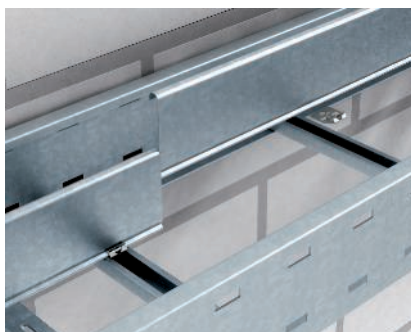
Installation of tee

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



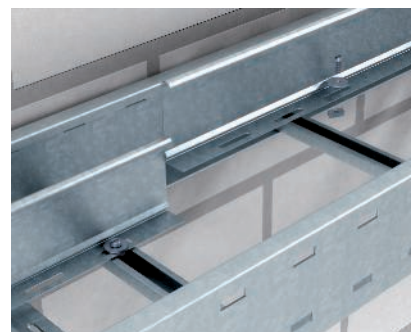
Installation of cross-over

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



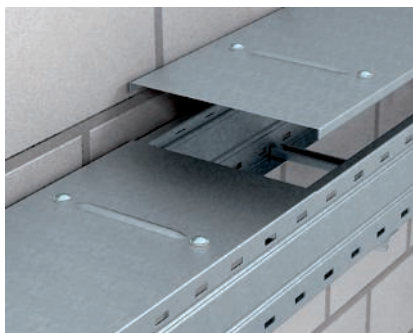
Screwless barrier strip fastening

Screwless fastening of a barrier strip in wide span cable trays and cable ladders with hold-down clamp, type KS KL.



Screwed barrier strip fastening

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



Cover mounting

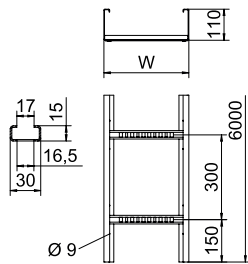
Installation of covers with turn buckles.



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. Fastening of cables with clamp clip, type 2056.

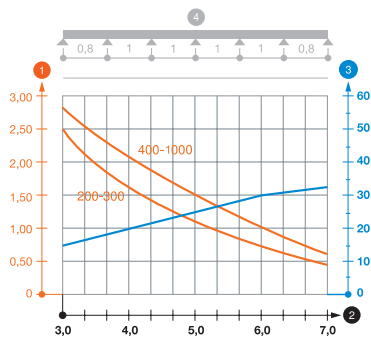
Type	Width mm	Rail thick- ness mm	Pack m	Weight kg/100 m	Item no.
WKLG 1120 FS	200	2	6	560.400	6311008
WKLG 1130 FS	300	2	6	583.000	6311012
WKLG 1140 FS	400	2	6	605.800	6311016
WKLG 1150 FS	500	2	6	628.833	6311020
WKLG 1160 FS	600	2	6	652.000	6311024

Dimensions



Type	Dim. L mm	Dim. B mm	Usable 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

Load

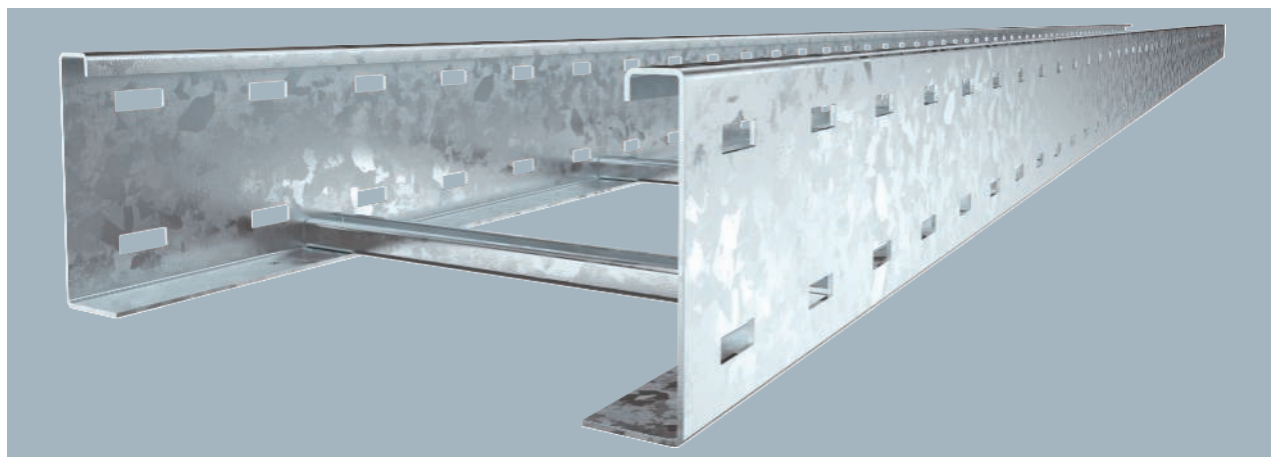


	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m
WKLG 1120 FS	1.6	1.1	0.8	0.4
WKLG 1130 FS	1.6	1.1	0.8	0.4
WKLG 1140 FS	2.1	1.5	1	0.7
WKLG 1150 FS	2.1	1.5	1	0.7
WKLG 1160 FS	2.1	1.5	1	0.7

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

Wide span cable ladder WKLG 110



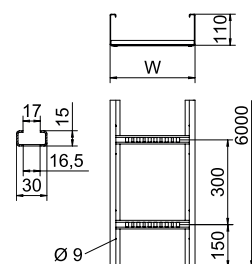
Type	Width mm	Rail thick- ness mm	Pack m	Weight kg/100 m	Item no.
WKLG 1120 FT	200	2	6	589.000	6311059
WKLG 1130 FT	300	2	6	612.800	6311063
WKLG 1140 FT	400	2	6	637.166	6311067
WKLG 1150 FT	500	2	6	662.066	6311071
WKLG 1160 FT	600	2	6	686.600	6311075

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. Fastening of cables with clamp clip, type 2056.

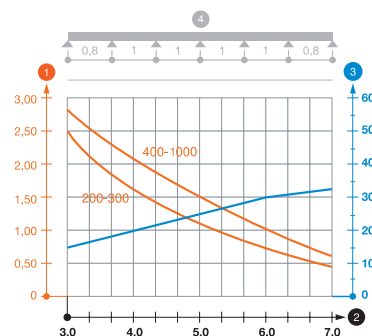
Type	Dim. L mm	Dim. B mm	Usable cross- section cm ²
WKLG 1120 FT	6000	200	186
WKLG 1130 FT	6000	300	281
WKLG 1140 FT	6000	400	376
WKLG 1150 FT	6000	500	471
WKLG 1160 FT	6000	600	566

Dimensions



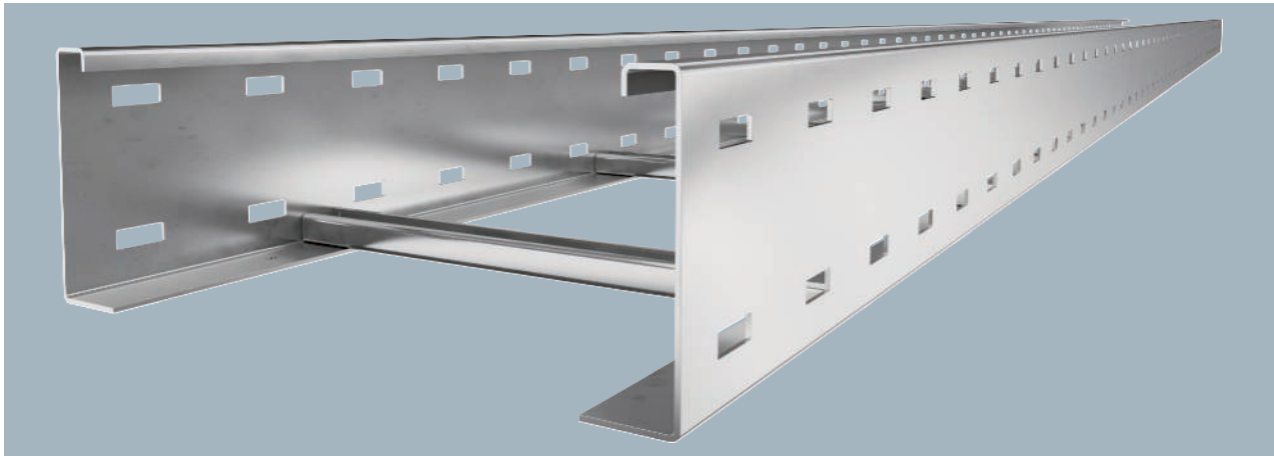
Type	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m
WKLG 1120 FT	1.6	1.1	0.8	0.4
WKLG 1130 FT	1.6	1.1	0.8	0.4
WKLG 1140 FT	2.1	1.5	1	0.7
WKLG 1150 FT	2.1	1.5	1	0.7
WKLG 1160 FT	2.1	1.5	1	0.7

Load



Load diagram, wide span cable ladder, type WKLG 110

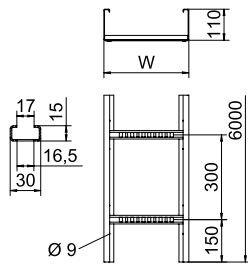
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



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. Fastening of cables with clamp clip, type 2056.

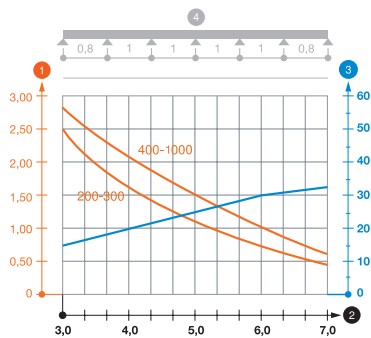
Type	Width mm	Rail thickness mm	Pack m	Weight kg/100 m	Item no.
WKLG 1120 A2	200	2	6	560.400	6311202
WKLG 1130 A2	300	2	6	582.800	6311206
WKLG 1140 A2	400	2	6	605.800	6311210
WKLG 1150 A2	500	2	6	628.866	6311214
WKLG 1160 A2	600	2	6	652.000	6311218

Dimensions



Type	Dim. L mm	Dim. B mm	Usable 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

Load

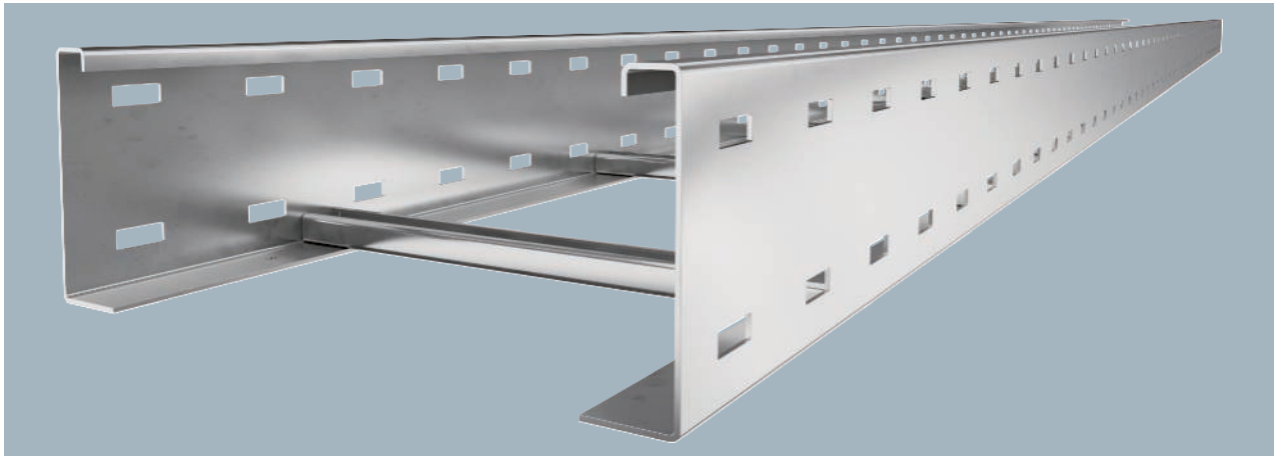


Type	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m
WKLG 1120 A2	1.6	1.1	0.8	0.4
WKLG 1130 A2	1.6	1.1	0.8	0.4
WKLG 1140 A2	2.1	1.5	1	0.7
WKLG 1150 A2	2.1	1.5	1	0.7
WKLG 1160 A2	2.1	1.5	1	0.7

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

Wide span cable ladder WKLG 110



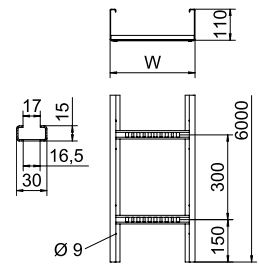
Type	Width mm	Rail thick- ness mm	Pack m	Weight kg/100 m	Item no.
WKLG 1120 A4	200	2	6	560.400	6311225
WKLG 1130 A4	300	2	6	582.800	6311227
WKLG 1140 A4	400	2	6	605.800	6311229
WKLG 1150 A4	500	2	6	628.866	6311231
WKLG 1160 A4	600	2	6	652.000	6311233

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. Fastening of cables with clamp clip, type 2056.

Type	Dim. L mm	Dim. B mm	Usable cross- section cm ²
WKLG 1120 A4	6000	200	186
WKLG 1130 A4	6000	300	281
WKLG 1140 A4	6000	400	376
WKLG 1150 A4	6000	500	471
WKLG 1160 A4	6000	600	566

Dimensions

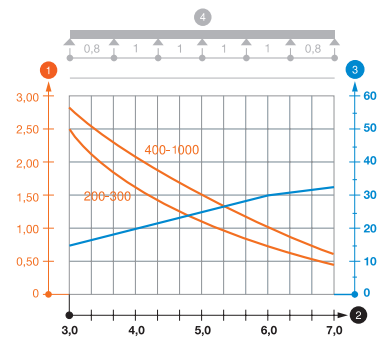


Type	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m
WKLG 1120 A4	1.6	1.1	0.8	0.4
WKLG 1130 A4	1.6	1.1	0.8	0.4
WKLG 1140 A4	1.6	1.1	0.8	0.4
WKLG 1150 A4	1.6	1.1	0.8	0.4
WKLG 1160 A4	1.6	1.1	0.8	0.4

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

Load

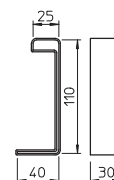


PVC

End cap 110

Type	Colour	Pack Pair	Weight kg/100 pairs	Item no.
SKHW 110 OR	Pastel orange	20	4.400	6310398

End cap to cover the ends of wide span cable ladders.



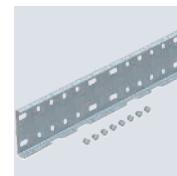
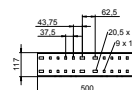
St FS FT

Straight connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 110 FS	110	2	152.400	6091164
WRVL 110 FT	110	2	157.800	6091180

Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 110 mm.

Including appropriate bolts, washers and nuts.



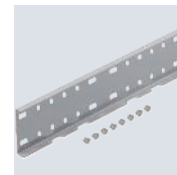
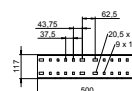
A2 A4 2B

Straight connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 110 A2	110	2	154.200	6091229
WRVL 110 A4	110	2	154.400	6091234

Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 110 mm.

Including appropriate bolts, washers and nuts.



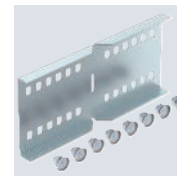
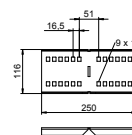
St FS

Angle connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 110 FS	110	2	83.800	6091377

Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 110 mm.



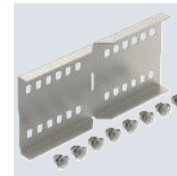
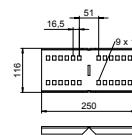
A2 A4 2B

Angle connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 110 A2	110	2	82.000	6091393
WRWVK 110 A4	110	2	82.000	6091397

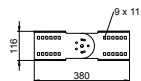
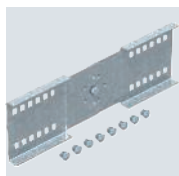
Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 110 mm.



Adjustable connector 110

St FS FT

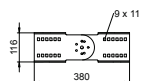
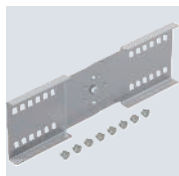


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 110 FS	110	2	119.000	6091318
WRGV 110 FT	110	2	119.000	6091334

Adjustable connector for wide span cable trays and ladders with a side height of 110 mm. Including appropriate bolts, washers and nuts.

Adjustable connector 110

A2 A4 2B

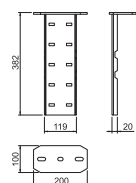


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 110 A2	110	2	120.000	6091338
WRGV 110 A4	110	2	120.000	6091343

Adjustable connector for wide span cable trays and ladders with a side height of 110 mm. Including appropriate bolts, washers and nuts.

Base plate for wide span systems

St FT

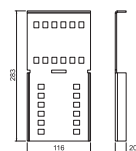


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WFP 110 FT	110	1	266.200	6232500

Including appropriate bolts, washers and nuts. Base plate for accepting wide span systems, for example, for vertical routing of wide span cable trays.

Angle connector, vertical 110

St FS

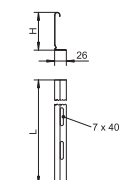


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 110 FS	110	2	63.200	6091379

Including appropriate bolts, washers and nuts. Angle connector for connecting vertical and horizontal wide span systems.

Separating retainer 85

St FS DD



Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 FS	85	0.75	3000	3	70.233	6062114
TSG 85 DD	85	0.75	3000	3	70.300	6062331

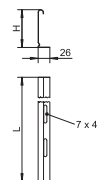
Separating retainer for separation of cables of different voltages or functions.

A2 2B

Barrier strip 85

Type	Dim. H mm	Metal thickness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 A2	85	0.75	3000	3	74.958	6062173

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

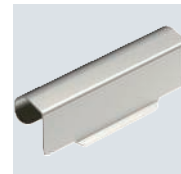


VA 2B

Separating retainer connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

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

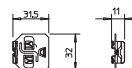


VA 2B

Hold-down clamp for separating retainer fastening

Type	Pack Piece	Weight kg/100 pc.	Item no.
KS KL A2	30	0.512	6062284

Hold-down clamp for screwless fastening of the separating retainer in cable ladders.

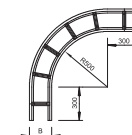


St FS FT

90° bend 110

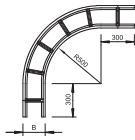
Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
WLB 90 112 FS	200	2	1	881.800	6312330
WLB 90 113 FS	300	2	1	971.000	6312349
WLB 90 114 FS	400	2	1	1,052.100	6312357
WLB 90 115 FS	500	2	1	1,151.300	6312365
WLB 90 116 FS	600	2	1	1,330.000	6312373
WLB 90 112 FT	200	2	1	926.800	6312438
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	1,217.800	6312462
WLB 90 116 FT	600	2	1	1,370.000	6312470

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.



A4 2B

90° bend 110

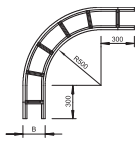


Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
WLB 90 112 A4	200	2	1	881.800	6312550
WLB 90 113 A4	300	2	1	1,030.000	6312552
WLB 90 114 A4	400	2	1	1,052.100	6312554
WLB 90 115 A4	500	2	1	1,151.300	6312556
WLB 90 116 A4	600	2	1	1,330.000	6312558

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.

90° bend 110

A2 2B

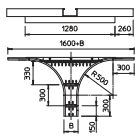


Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
WLB 90 112 A2	200	2	1	881.800	6312539
WLB 90 113 A2	300	2	1	1,030.000	6312541
WLB 90 114 A2	400	2	1	1,052.100	6312543
WLB 90 116 A2	600	2	1	1,330.000	6312547
WLB 90 115 A2	500	2	1	1,230.000	6312545

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.

Add-on tee 110

St FS FT

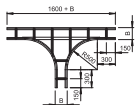
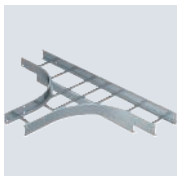


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
WRAA 120 FS	110	200	1	1,475.000	6098405
WRAA 130 FS	110	300	1	1,605.000	6098409
WRAA 140 FS	110	400	1	1,735.000	6098413
WRAA 150 FS	110	500	1	1,865.000	6098417
WRAA 160 FS	110	600	1	1,995.000	6098421
WRAA 120 FT	110	200	1	1,545.000	6098445
WRAA 130 FT	110	300	1	1,680.000	6098449
WRAA 140 FT	110	400	1	1,820.000	6098453
WRAA 150 FT	110	500	1	1,955.000	6098457
WRAA 160 FT	110	600	1	2,080.000	6098461

Add-on tee for horizontal use. For all wide span cable trays of 110 mm side height.
For further stabilisation, additional supports should be planned for the area of the fittings.

T branch piece 110

St FS FT



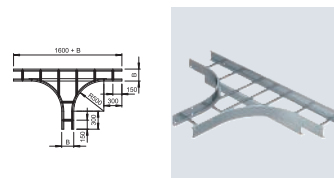
Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
WLT 1120 FS	200	2	1	1,760.000	6312632
WLT 1130 FS	300	2	1	1,927.000	6312640
WLT 1140 FS	400	2	1	2,050.000	6312659
WLT 1150 FS	500	2	1	2,172.000	6312667
WLT 1160 FS	600	2	1	2,340.000	6312675
WLT 1120 FT	200	2	1	1,842.000	6312713
WLT 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

For further stabilisation, additional supports should be planned for the area of the fittings.
Horizontal T branch piece, for all wide span cable ladders of 110 mm side height.

A4 2B

T branch piece 110

Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	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

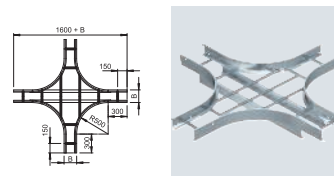


For further stabilisation, additional supports should be planned for the area of the fittings.
Horizontal T branch piece, for all wide span cable ladders of 110 mm side height.

St FT

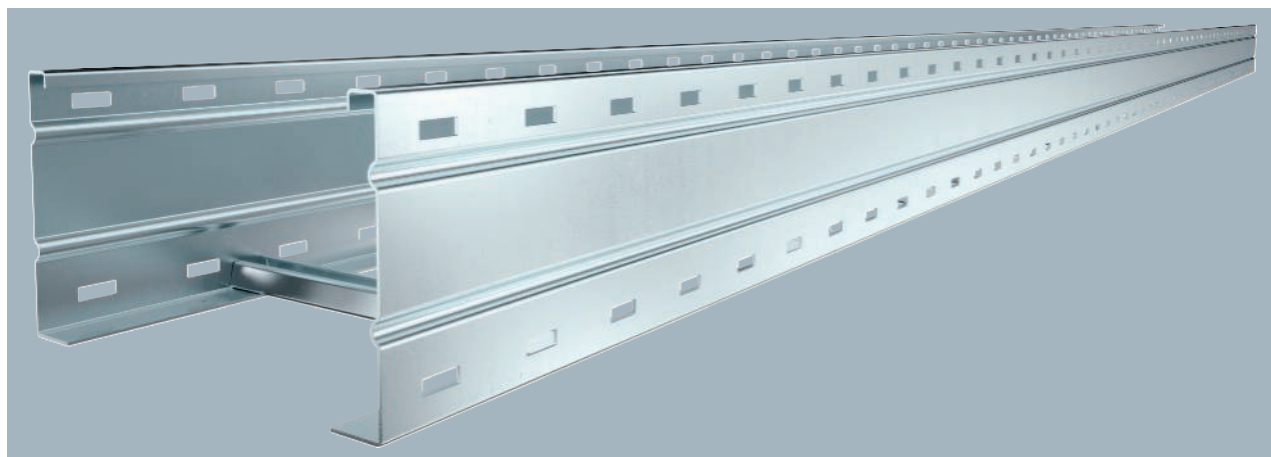
Cross-over 110

Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	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	3,001.300	6312950
WLK 1150 FT	500	2	1	3,154.600	6312969
WLK 1160 FT	600	2	1	3,291.400	6312977



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.

Wide span cable ladder WKLG 160

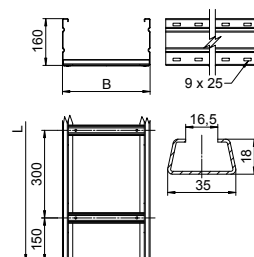


Type	Width mm	Rail thick- ness mm	Pack m	Weight kg/100 m	Item no.
WKLG 1620 FS	200	2	6	737.334	6227023
WKLG 1630 FS	300	2	6	767.334	6227031
WKLG 1640 FS	400	2	6	797.834	6227058
WKLG 1650 FS	500	2	6	828.500	6227066
WKLG 1660 FS	600	2	6	859.334	6227074

Wide span cable ladder with perforated side rail of side height of 160 mm. Fastening of cables with clamp clip, type 2056. Straight connectors of type WRV 160 should be ordered separately and in the appropriate quantity.

Type	Dim. L mm	Dim. B mm	Usable 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

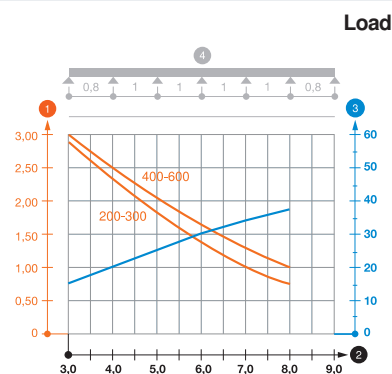
Dimensions

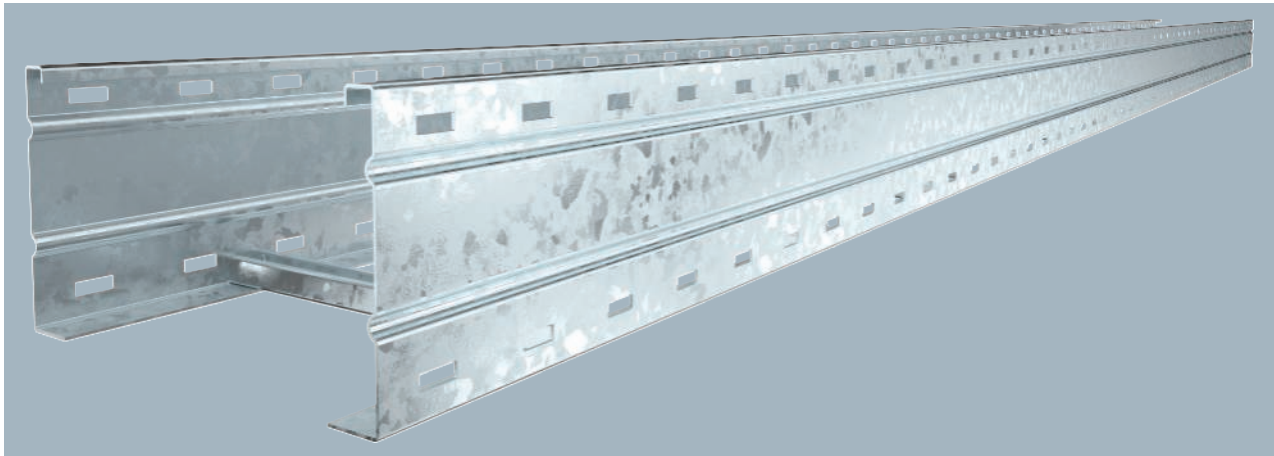


	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKLG 1620 FS	1.8	1.4	1	0.7
WKLG 1630 FS	1.8	1.4	1	0.7
WKLG 1640 FS	2	1.6	1.3	1
WKLG 1650 FS	2	1.6	1.3	1
WKLG 1660 FS	2	1.6	1.3	1

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

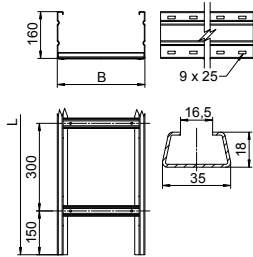




Wide span cable ladder with perforated side rail of side height of 160 mm. Fastening of cables with clamp clip, type 2056. Straight connectors of type WRV 160 should be ordered separately and in the appropriate quantity.

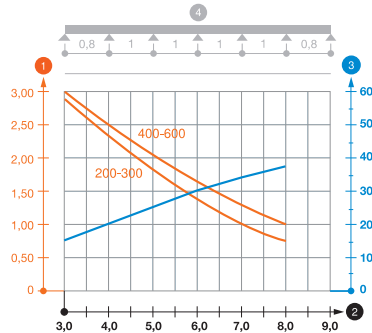
Type	Width mm	Rail thick- ness mm	Pack m	Weight kg/100 m	Item no.
WKLG 1620 FT	200	2	6	770.667	6227120
WKLG 1630 FT	300	2	6	802.500	6227139
WKLG 1640 FT	400	2	6	835.000	6227147
WKLG 1650 FT	500	2	6	867.334	6227155
WKLG 1660 FT	600	2	6	900.000	6227163

Dimensions



Type	Dim. L mm	Dim. B mm	Usable cross- section cm ²
WKLG 1620 FT	6000	200	282
WKLG 1630 FT	6000	300	427
WKLG 1640 FT	6000	400	572
WKLG 1650 FT	6000	500	717
WKLG 1660 FT	6000	600	857

Load

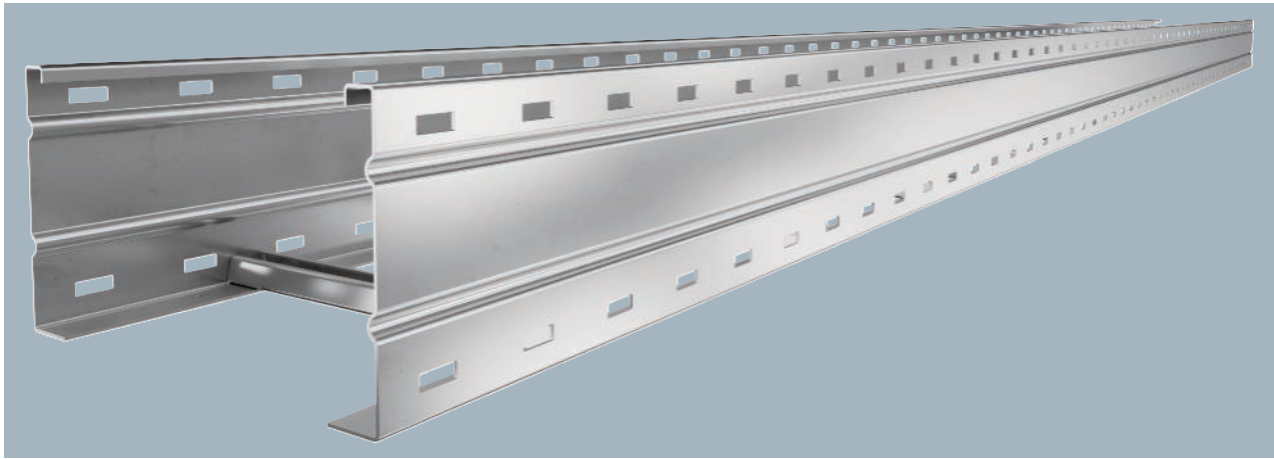


	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKLG 1620 FT	1.8	1.4	1	0.7
WKLG 1630 FT	1.8	1.4	1	0.7
WKLG 1640 FT	2	1.6	1.3	1
WKLG 1650 FT	2	1.6	1.3	1
WKLG 1660 FT	2	1.6	1.3	1

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

Wide span cable ladder WKLG 160



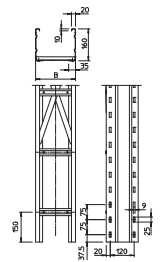
Type	Width mm	Rail thick- ness mm	Pack m	Weight kg/100 m	Item no.
WKLG 1620 A4	200	2	6	737.334	6227170
WKLG 1630 A4	300	2	6	767.334	6227172
WKLG 1640 A4	400	2	6	797.834	6227174
WKLG 1650 A4	500	2	6	828.500	6227176
WKLG 1660 A4	600	2	6	859.334	6227178

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. Fastening of cables with clamp clip, type 2056.

Type	Dim. L mm	Dim. B mm	Usable cross- section cm ²
WKLG 1620 A4	6000	200	282
WKLG 1630 A4	6000	300	427
WKLG 1640 A4	6000	400	572
WKLG 1650 A4	6000	500	717
WKLG 1660 A4	6000	600	857

Dimensions

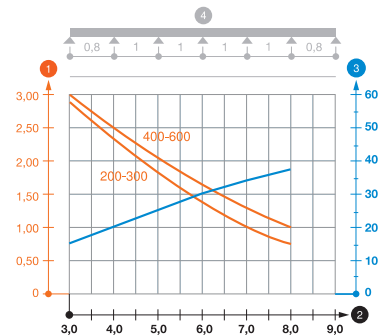


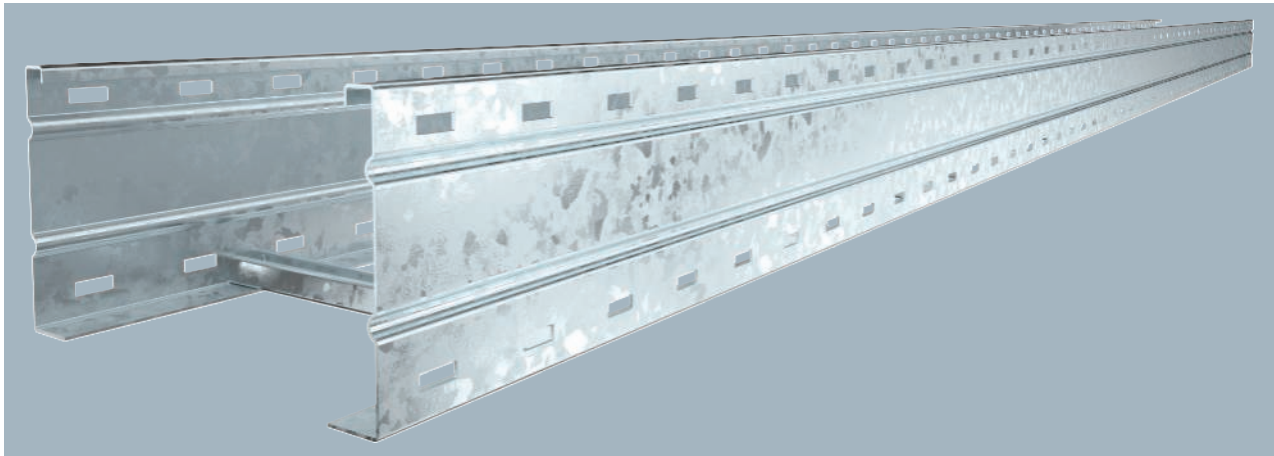
Type	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKLG 1620 A4	1.8	1.4	1	0.7
WKLG 1630 A4	1.8	1.4	1	0.7
WKLG 1640 A4	2	1.6	1.3	1
WKLG 1650 A4	2	1.6	1.3	1
WKLG 1660 A4	2	1.6	1.3	1

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

Load

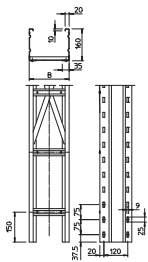




WKLG 160 = Wide span cable ladder with perforated side rails of side height of 160 mm. Fastening of cables with clamp clip, type 2056. Straight connectors of type WRV 160 should be ordered separately and in the appropriate quantity.

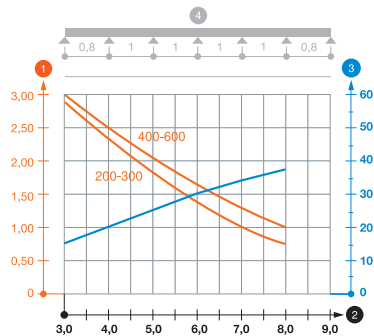
Type	Width mm	Rail thickness mm	Pack m	Weight kg/100 m	Item no.
WKLG 1620 FT SO	200	2	6	777.000	7189040
WKLG 1630 FT SO	300	2	6	809.334	7189042
WKLG 1640 FT SO	400	2	6	843.500	7189044
WKLG 1650 FT SO	500	2	6	876.334	7189046
WKLG 1660 FT SO	600	2	6	908.834	7189048

Dimensions



Type	Dim. L mm	Dim. B mm	Usable cross-section cm ²
WKLG 1620 FT SO	6000	200	282
WKLG 1630 FT SO	6000	300	427
WKLG 1640 FT SO	6000	400	572
WKLG 1650 FT SO	6000	500	717
WKLG 1660 FT SO	6000	600	857

Load



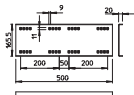
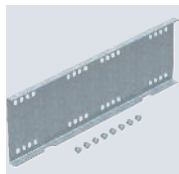
	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKLG 1620 FT SO	1.8	1.4	1	0.7
WKLG 1630 FT SO	1.8	1.4	1	0.7
WKLG 1640 FT SO	2	1.6	1.3	1
WKLG 1650 FT SO	2	1.6	1.3	1
WKLG 1660 FT SO	2	1.6	1.3	1

Load diagram, wide span cable ladder, type WKLG 160

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

Straight connector 160

St FS FT



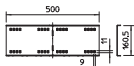
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 160 FS	160	2	218.000	6227708
WRVL 160 FT	160	2	218.000	6227716

Straight connector for the connection of wide span cable trays and ladders of types WKSG and WKLG with a side height of 160 mm.

Including appropriate bolts, washers and nuts.

Angle connector 160

St FS



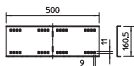
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 160 FS	160	2	199.800	6227832

Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 160 mm.

Angle connector 160

A2 2B



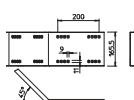
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 160 A2	160	2	199.800	6227836

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, internal 160

St FS FT



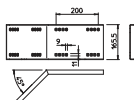
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 160 I FS	160	1	234.000	6227902
WRWV 160 I FT	160	1	234.000	6227910

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, external 160

St FS FT



Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 160 A FS	160	1	234.000	6227856
WRWV 160 A FT	160	1	234.000	6227864

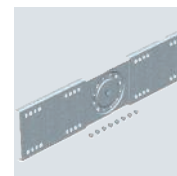
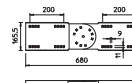
Including appropriate bolts, washers and nuts.

45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

St FS FT

Adjustable connector 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 160 FS	160	2	306.100	6227953
WRGV 160 FT	160	2	316.700	6227961

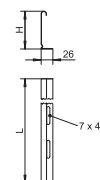


Adjustable connector for wide span cable trays and ladders with a side height of 160 mm. Including appropriate bolts, washers and nuts.

St FS DD

Separating retainer 110

Type	Dim. H mm	Metal thickness mm	Dim. 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

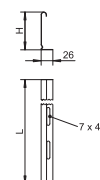


Separating retainer for separation of cables of different voltages or functions.

St FS DD

Separating retainer 135

Type	Dim. H mm	Metal thickness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 135 FS	135	0.75	3000	3	99.800	6062132
TSG 135 DD	135	0.75	3000	3	100.000	6062338



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

VA 2B

Separating retainer connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

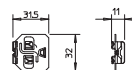


Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

VA 2B

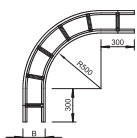
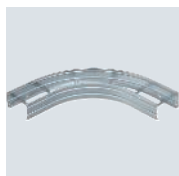
Hold-down clamp for separating retainer fastening

Type	Pack Piece	Weight kg/100 pc.	Item no.
KS KL A2	30	0.512	6062284



Hold-down clamp for screwless fastening of the separating retainer in cable ladders.

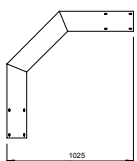
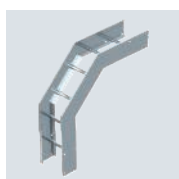
90° bend 160



Type	Dim. B mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	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

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.

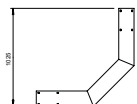
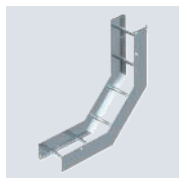
90° vertical bend, falling 160



Type	Width mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
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

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.

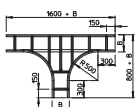
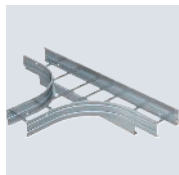
90° vertical bend, rising 160



Type	Width mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	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

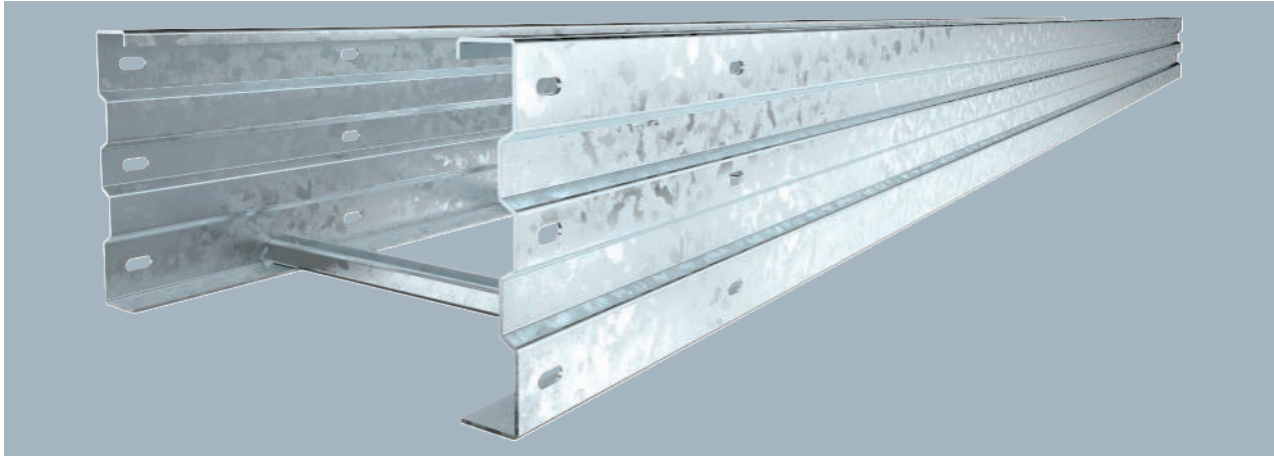
For further stabilisation, additional supports should be planned for the area of the fittings.
90° vertical bend, for all wide span cable ladders of 160 mm side height.

T branch piece 160



Type	Dim. B mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	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

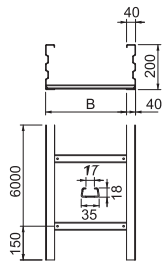
For further stabilisation, additional supports should be planned for the area of the fittings.
Horizontal T branch piece, for all wide span cable ladders of 160 mm side height.



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.

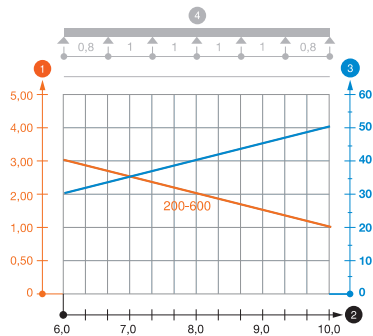
Type	Width mm	Rail thickness mm	Pack m	Weight kg/100 m	Item no.
WKL 2020 FT	200	2.5	6	1,320.000	6232102
WKL 2030 FT	300	2.5	6	1,358.334	6232104
WKL 2040 FT	400	2.5	6	1,398.340	6232106
WKL 2050 FT	500	2.5	6	1,440.000	6232108
WKL 2060 FT	600	2.5	6	1,480.000	6232110

Dimensions



Type	Dim. L mm	Dim. B mm	Usable cross-section cm ²
WKL 2020 FT	6000	200	344
WKL 2030 FT	6000	300	524
WKL 2040 FT	6000	400	704
WKL 2050 FT	6000	500	884
WKL 2060 FT	6000	600	1064

Load



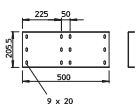
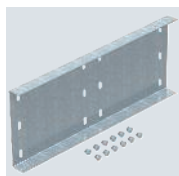
	6.0 m	7.0 m	8.0 m	9.0 m	10.0 m
	kN/m				
WKL 2020 FT	3	2.5	2	1.4	1
WKL 2030 FT	3	2.5	2	1.4	1
WKL 2040 FT	3	2.5	2	1.4	1
WKL 2050 FT	3	2.5	2	1.4	1
WKL 2060 FT	3	2.5	2	1.4	1

Load diagram, wide span cable ladder, type WKL 200

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

Straight connector 200

St FT

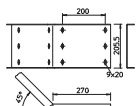
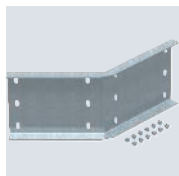


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRV 200 FT	200	4	320.000	6232507

Straight connector for connections of wide span cable ladders and fittings with a side height of 200 mm. Including appropriate bolts, washers and nuts.

45° angle connector, internal 200

St FT

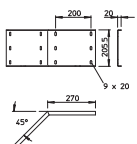
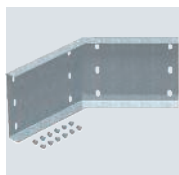


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 200 I FT	200	4	322.000	6232612

Including appropriate bolts, washers and nuts. 45° angle connector, horizontal, for wide span cable ladders of 200 mm side height.

45° angle connector, external 200

St FT

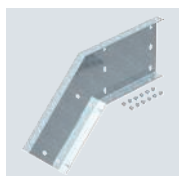


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 200 A FT	200	4	320.000	6232604

Including appropriate bolts, washers and nuts. 45° angle connector, horizontal, for wide span cable ladders of 200 mm side height.

45° angle connector, vertical 200

St FT

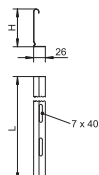
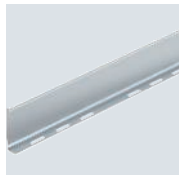


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 200 V FT	200	4	343.100	6232663

Including appropriate bolts, washers and nuts. 45° angle connector, vertical, for wide span cable ladders of 200 mm side height.

Separating retainer 110

St FS DD



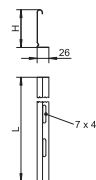
Type	Dim. H mm	Metal thickness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 110 FS	110	0.75	3000	3	85.000	6062122
TSG 110 DD	110	0.75	3000	3	85.000	6062335

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

St FS DD

Separating retainer 135

Type	Dim. H mm	Metal		Pack m	Weight kg/100 m	Item no.
		thick- ness mm	Dim. L mm			
TSG 135 FS	135	0.75	3000	3	99.800	6062132
TSG 135 DD	135	0.75	3000	3	100.000	6062338



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

VA 2B

Separating retainer connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

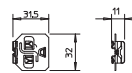


Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

VA 2B

Hold-down clamp for separating retainer fastening

Type	Pack Piece	Weight kg/100 pc.	Item no.
KS KL A2	30	0.512	6062284

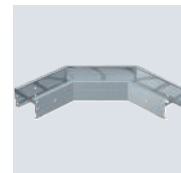
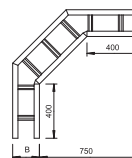


Hold-down clamp for screwless fastening of the separating retainer in cable ladders.

St FT

90° bend 200

Type	Dim. B mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
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

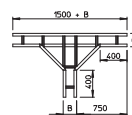


For further stabilisation, additional supports should be planned for the area of the fittings.
90° bend, horizontal, for all wide span cable ladders of 200 mm side height.

St FT

T branch piece 200

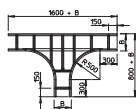
Type	Dim. B mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
WLT 2030 FT	300	2.5	1	3,580.000	6233635
WLT 2040 FT	400	2.5	1	3,787.000	6233643
WLT 2050 FT	500	2.5	1	4,089.000	6233651
WLT 2060 FT	600	2.5	1	4,308.000	6233678



For further stabilisation, additional supports should be planned for the area of the fittings.
T piece, horizontal, for all wide span cable ladders of 200 mm side height.

T branch piece 160

A4 2B



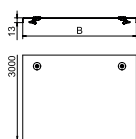
Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
WLT 1620 A4	200	2	1	2,249.000	6229820
WLT 1630 A4	300	2	1	2,452.000	6229822
WLT 1640 A4	400	2	1	2,604.000	6229824
WLT 1650 A4	500	2	1	2,756.000	6229826
WLT 1660 A4	600	2	1	2,907.000	6229828

For further stabilisation, additional supports should be planned for the area of the fittings.
Horizontal T branch piece, for all wide span cable ladders of 160 mm side height.

System accessories

Cover with turn buckle

St FS DD



Type	Dim. B mm	Metal 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	744.333	6227616

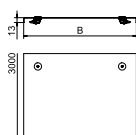
Cover with turn buckles for wide span cable trays and wide span cable ladders with side heights of 110 and 160 mm.

Take appropriate constructive protection measures if there are high wind speeds.

Transverse bead from 500 mm width.

Cover with turn buckle

A2 2B



Type	Dim. B mm	Metal 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

Cover for wide span trays and ladders with the side height 110 and 160 mm.

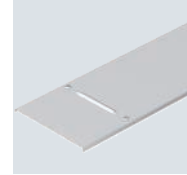
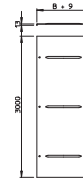
Take appropriate constructive protection measures if there are high wind speeds.

Transverse bead from 500 mm width.

A4 2B

Cover with turn buckle

Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
WDRL 1116 20 A4	200	1.50	3000	3	186.670	6227361
WDRL 1116 30 A4	300	1.50	3000	3	265.334	6227363
WDRL 1116 40 A4	400	1.50	3000	3	513.000	6227365
WDRL 1116 50 A4	500	1.50	3000	3	629.670	6227367
WDRL 1116 60 A4	600	1.50	3000	3	747.667	6227369



Cover for wide span trays and ladders with the side height 110 and 160 mm.

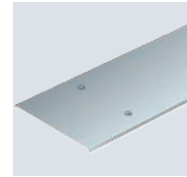
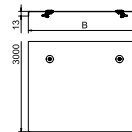
Cross beading from 500 mm width.

If a turn buckle is installed at a later time, the following dimensions of the drill hole arrangement should be maintained.

St DD

Cover incl. turn buckles

Type	Dim. B mm	Metal 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



Cover for wide span ladders with the side height of 200 mm.

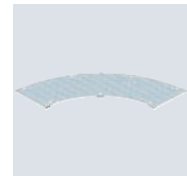
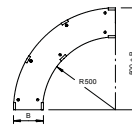
Take appropriate constructive protection measures if there are high wind speeds.

Transverse bead from 500 mm width.

St FS DD

Cover for 90° bend WDBRL

Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	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	595.000	6231497
WDBRL 90 60 FS	600	1.00	1	758.000	6231500
WDBRL 90 20 DD	200	1.00	1	165.100	6231527
WDBRL 90 30 DD	300	1.00	1	270.000	6231535
WDBRL 90 40 DD	400	1.00	1	548.000	6231543
WDBRL 90 50 DD	500	1.00	1	724.000	6231551
WDBRL 90 60 DD	600	1.00	1	945.000	6231578

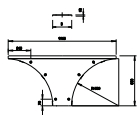
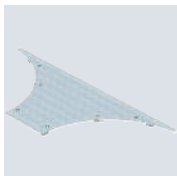


As the connector is mounted from the outside, the fitting cover is 300 mm shorter than the corresponding fitting. This must be considered when installing the track elements.

Cover for wide span 90° bend with pre-mounted turn buckles.

Cover for add-on tee WAAD

St FS DD

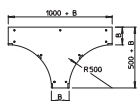
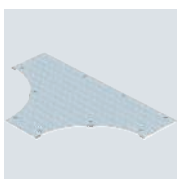


Type	Width mm	Metal thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
WAAD 200 FS	200	1.50	1	206.100	6231900
WAAD 300 FS	300	1.50	1	247.300	6231904
WAAD 400 FS	400	1.50	1	427.100	6231908
WAAD 500 FS	500	1.50	1	489.600	6231912
WAAD 600 FS	600	1.50	1	552.100	6231916
WAAD 200 DD	200	1.50	1	206.100	6231922
WAAD 300 DD	300	1.50	1	247.300	6231926
WAAD 400 DD	400	1.50	1	427.100	6231930
WAAD 500 DD	500	1.50	1	489.600	6231934
WAAD 600 DD	600	1.50	1	552.100	6231938

Cover for wide span add-on tee with pre-mounted turn buckles.

Cover for WDTRL T branch piece

St DD



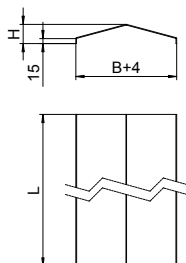
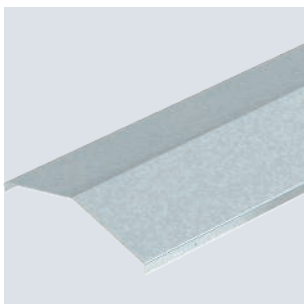
Type	Dim. B mm	Metal thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
WDTRL 200 DD	200	1.00	1	400.000	6231667
WDTRL 300 DD	300	1.00	1	550.000	6231675
WDTRL 400 DD	400	1.00	1	1,085.000	6231683
WDTRL 500 DD	500	1.25	1	1,419.200	6231691
WDTRL 600 DD	600	1.25	1	1,729.500	6231705

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 T branch piece with pre-mounted turn buckles.

Roof-form cover

St FT



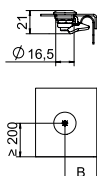
Type	Dim. B mm	Metal thick- ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
WDRLU DF1116 2FT	200	2.00	3000	3	380.000	6227261
WDRLU DF1116 3FT	300	2.00	3000	3	544.340	6227263
WDRLU DF1116 4FT	400	2.00	3000	3	707.000	6227265
WDRLU DF1116 5FT	500	2.00	3000	3	869.340	6227267
WDRLU DF1116 6FT	600	2.00	3000	3	1,032.000	6227269

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.

Turn buckle for screwing

A2 2B



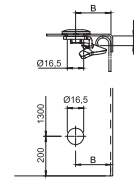
Type	Pack Piece	Weight kg/100 pc.	Item no.
DRL H S A2	20	3.260	6065016

Turn buckle for additional mounting or mounting at a later date.
Depending on the cover version, dimension B varies as follows:
DRL / DRLU = 27 mm
DBKR = 27 mm
WDRL = 38 mm
WKLD = 58 mm
Single-sided turn buckle. Use for cover widths of 100–600 mm.

St FT

Turn buckle for riveting

Type	Pack Piece	Weight kg/100 pc.	Item no.
DRL H FT	20	2.187	6065012



Turn buckle for additional installation or installation at a later date.

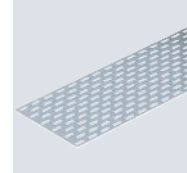
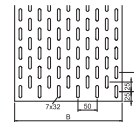
Depending on the cover version, dimension B varies as follows:
 DRL / DRLU = 27 mm
 DBKR = 27 mm
 WDRL = 38 mm
 WKLD = 58 mm

Single-sided turn buckle. Use for cover widths of 100–600 mm.

St FS FT

ELB-L insertion plate

Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
ELB-L 20 FS	200	1.00	3000	3	88.500	6103235
ELB-L 30 FS	300	1.00	3000	3	137.400	6103251
ELB-L 40 FS	400	1.00	3000	3	186.300	6103286
ELB-L 50 FS	500	1.00	3000	3	235.200	6103316
ELB-L 60 FS	600	1.00	3000	3	285.070	6103332
ELB-L 20 FT	200	1.00	3000	3	100.240	6103421
ELB-L 30 FT	300	1.00	3000	3	155.640	6103448
ELB-L 40 FT	400	1.00	3000	3	211.040	6103456
ELB-L 50 FT	500	1.00	3000	3	269.740	6103464
ELB-L 60 FT	600	1.00	3000	3	322.870	6103480



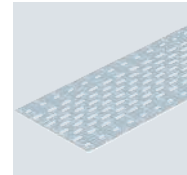
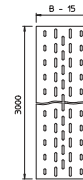
Insert plate for use in cable ladders.

For fastening in wide span cable ladders, use truss-head bolts with combination nut of type FR SB 6x30.

St DD

ELB-L insertion plate

Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
ELB-L 20 DD	200	1.00	3000	3	88.500	6103352
ELB-L 30 DD	300	1.00	3000	3	137.400	6103356
ELB-L 40 DD	400	1.00	3000	3	186.300	6103360
ELB-L 50 DD	500	1.00	3000	3	235.200	6103364
ELB-L 60 DD	600	1.00	3000	3	285.180	6103368



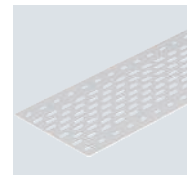
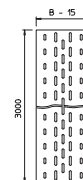
Insert plate for use in cable ladders.

For the fastening in wide span cable ladders use truss-head bolts with the combination nut of type FR SB 6x30.

A2 2B

ELB-L insertion plate

Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
ELB-L20 A2	200	1.00	3000	3	94.400	6103614
ELB-L30 A2	300	1.00	3000	3	146.567	6103618
ELB-L40 A2	400	1.00	3000	3	198.700	6103622
ELB-L50 A2	500	1.00	3000	3	250.867	6103626
ELB-L60 A2	600	1.00	3000	3	303.033	6103630

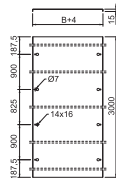
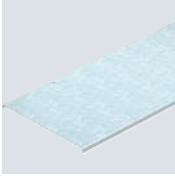


Insert plate for use in cable ladders.

For the fastening in wide span cable ladders use truss-head bolts with the combination nut of type FR SB 6x30.

Cover for stand-off mounting

St FT



Type	Width mm	Metal 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

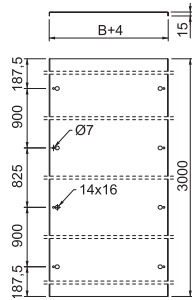
Spacers must be ordered separately for every 3 m under article number 6065475 for cable trays and cable ladders as well as under article number 6065477 for wide span systems.

Cover for stand-off mounting. Not suitable for the vertical ladders SLM and SLS.

When using covers outdoors, additional measures against the influence of wind must be taken.

Cover for stand-off mounting

A2 A4 2B



Type	Width mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
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

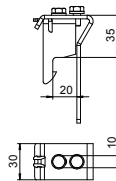
Spacers must be ordered separately for every 3 m under article number 6065475 for cable trays and cable ladders as well as under article number 6065477 for wide span systems.

Cover for stand-off mounting. Not suitable for the vertical ladders SLM and SLS.

When using covers outdoors, additional measures against the influence of wind must be taken.

Spacer for cover

A2 2B

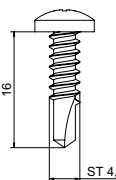


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
AH 35 WS A2	35	8	14.500	6065477

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.

Drilling screw

St G



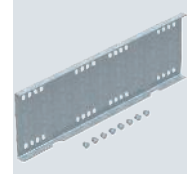
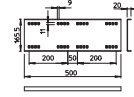
Type	Dimension mm	Pack Piece	Weight kg/100 pc.	Item no.
BS BKS KP	4,2x16	100	0.180	6049250

Drilling screw to fasten components to the stand-offs of the walkable cable tray system. Corresponds to DIN 7504.

St FT SO

160 FT SOMY straight connector

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 160 FT SO	160	2	221.000	6227732



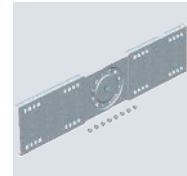
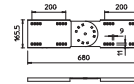
Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 160 mm.

Including appropriate bolts, washers and nuts.

St FT SO

Articulated connector 160 FT SOMY

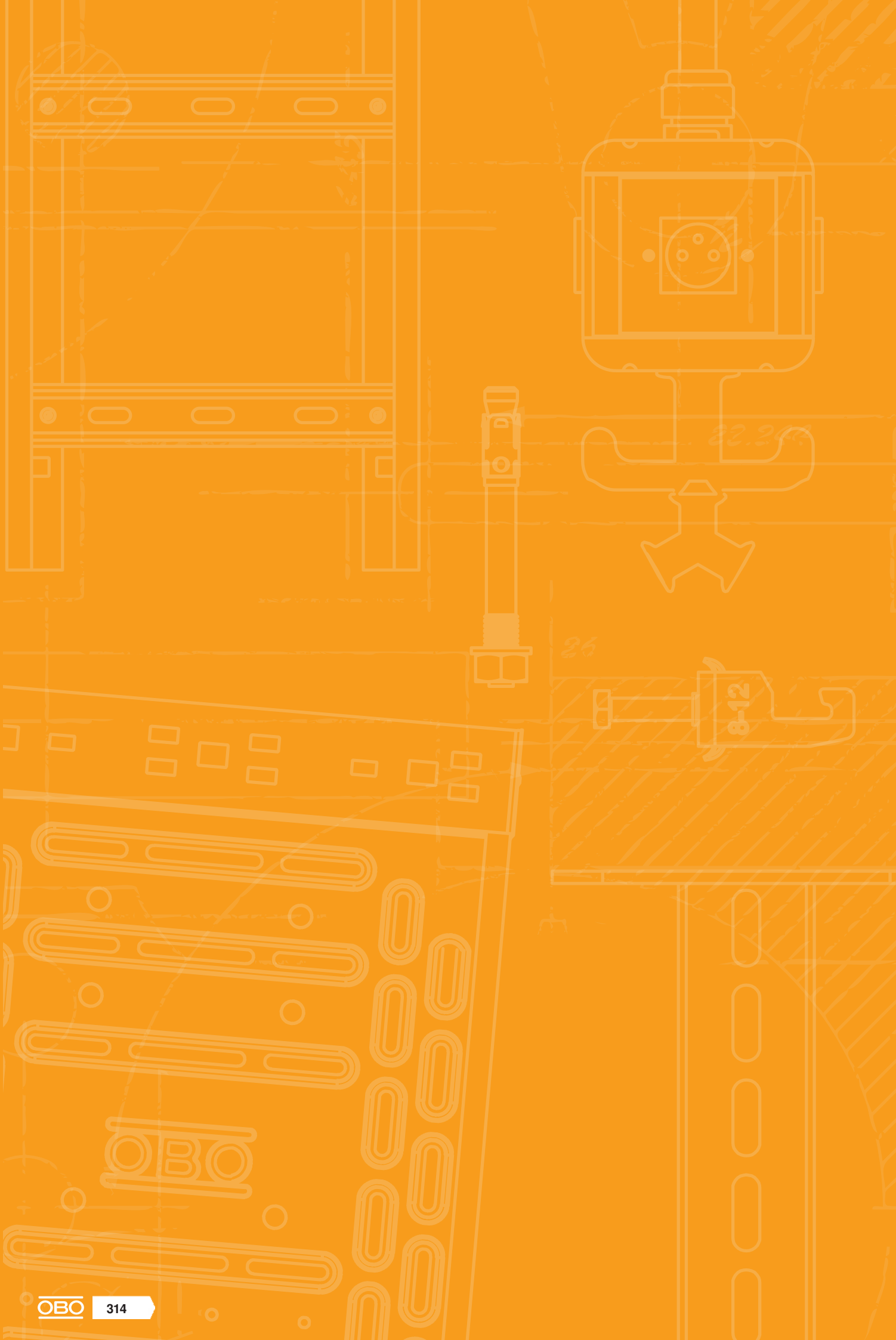
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 160 FT SO	160	2	316.700	7189220




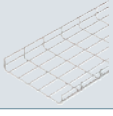
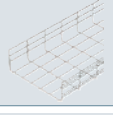
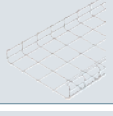
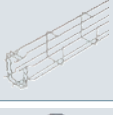

Adjustable connector for wide span cable trays and ladders with a side height of 160 mm.

Including appropriate bolts, washers and nuts.

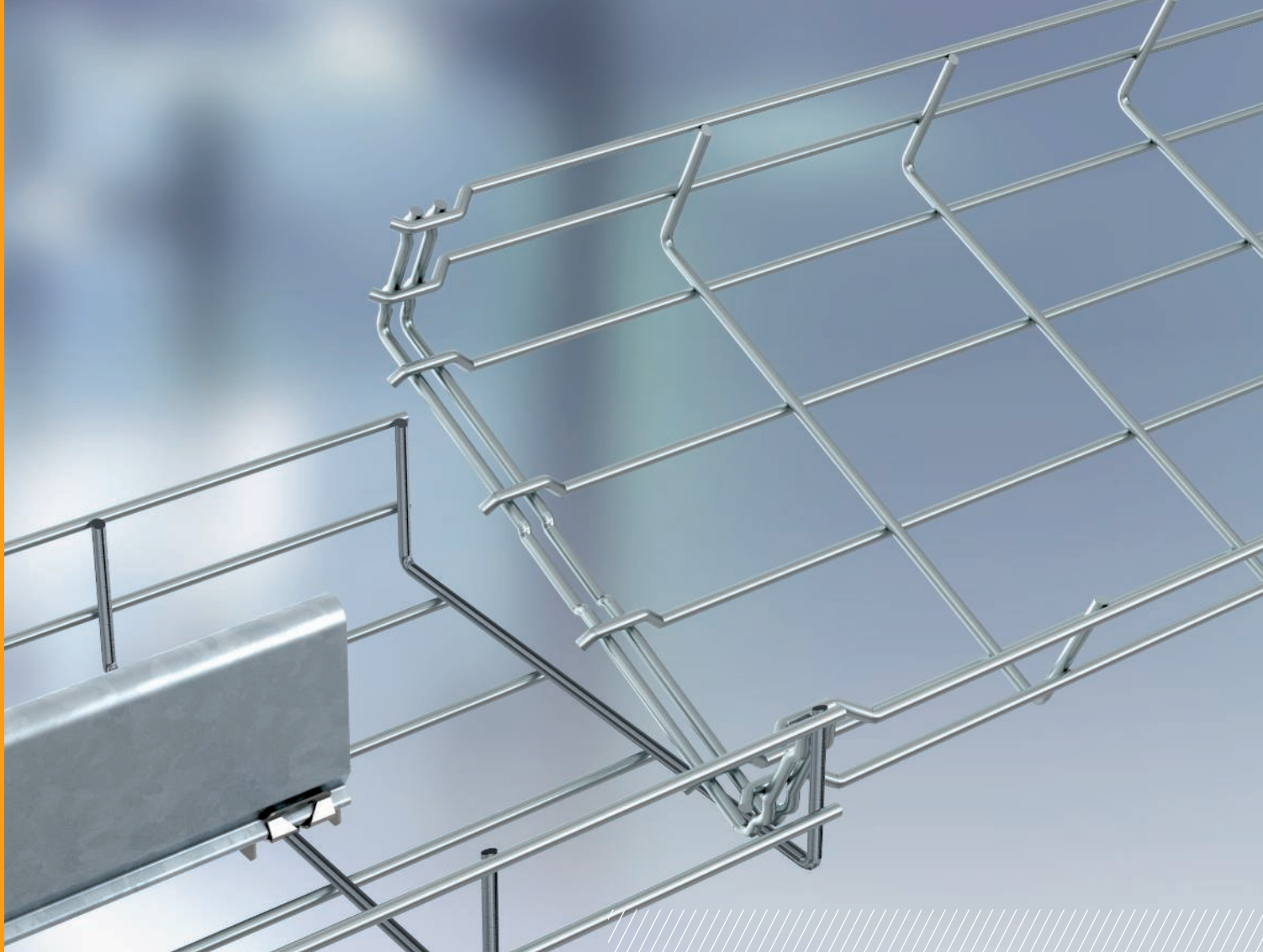




Mesh cable trays

	Side height 35 mm	314
	Side height 55 mm	328
	Side height 105 mm	340
	C mesh cable tray	350
	G mesh cable tray	356
	System accessories, mesh cable tray systems	374



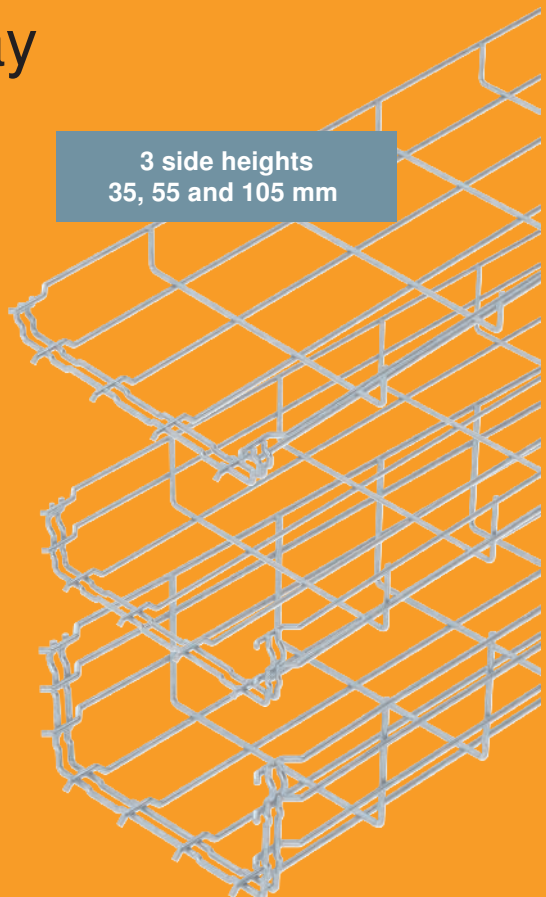


GR-Magic® mesh cable tray

The GR-Magic® mesh cable tray system with shaped connector for screwless quick mounting guarantees the shortest possible mounting times, even for complex installation operations.

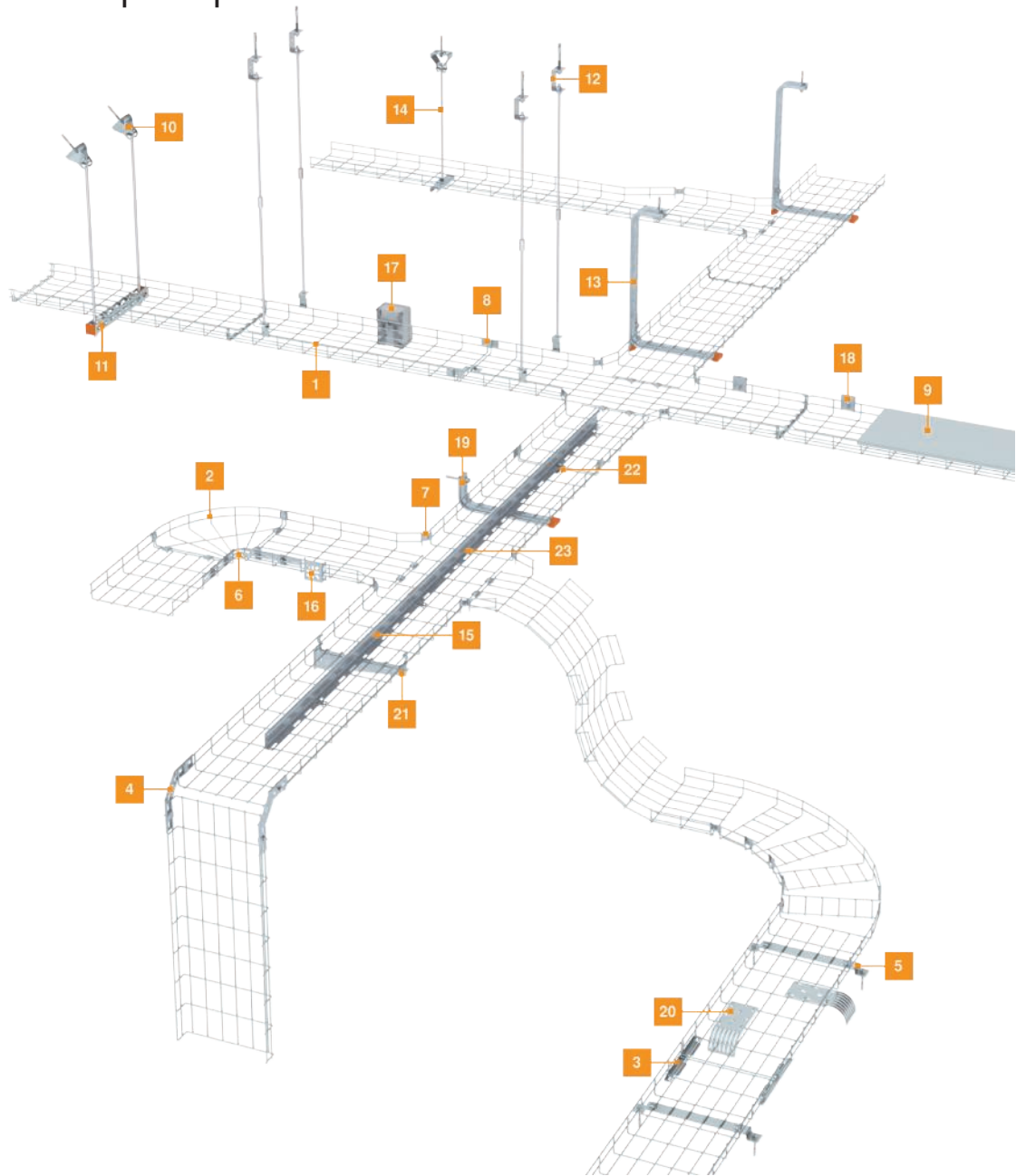
- Fast and secure connection through plug connection
- Locking system accessory, such as the barrier strips
- Maintenance of electrical function, tested
- Equipotential bonding without additional components
- VDE and UL approved mesh cable tray system

3 side heights
35, 55 and 105 mm



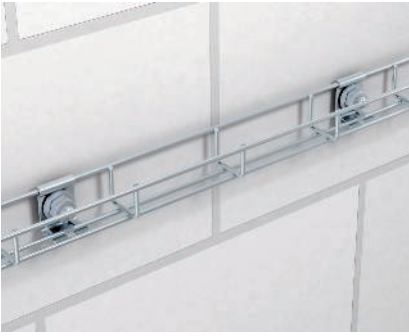
GR-Magic® mesh cable tray

Installation principle



1	GR-Magic mesh cable tray	13	TP suspended support
2	90° mesh cable tray bend	14	Centre suspension, GMS
3	Mesh cable tray connector, long	15	Barrier strip
4	90° mounting bracket	16	Mounting plate
5	Stand-off bracket	17	Fastening element for junction box
6	Slotted steel strap, bent	18	Wall and ceiling bracket
7	Corner connector	19	Wall and support bracket TPSAG
8	Joint connector	20	Cable exit plate
9	Cover, unperforated	21	AWG 15 wall and support bracket
10	Ceiling clamp, variable	22	Hold-down clamp for barrier strip fastening
11	Mounting rail, MS 41	23	Barrier strip connector
12	Ceiling bracket		

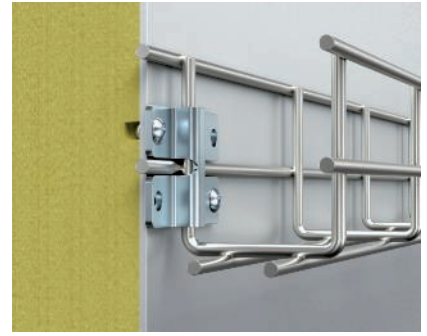
Mounting aid



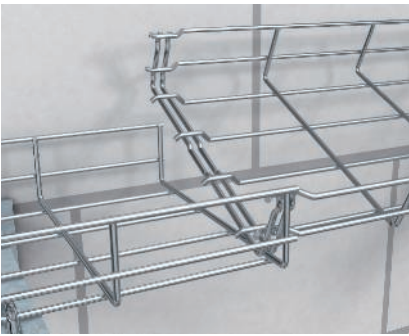
Wall mounting GRM 35 50
Wall mounting for direct wall fastening of mesh cable trays GRM 35 50.



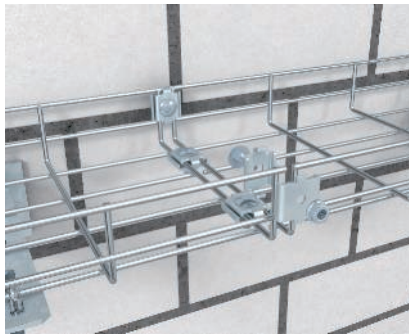
Wall mounting of mesh cable trays
Wall mounting of mesh cable trays with wall bracket, type K 12 1818. Maximum mesh cable tray width 200 mm.



Wall and floor fastener WB GR
Fastening component for direct mounting of mesh cable trays to the wall and floor. Can be screwed or riveted on. Suitable for wire thickness of 3.9 mm.



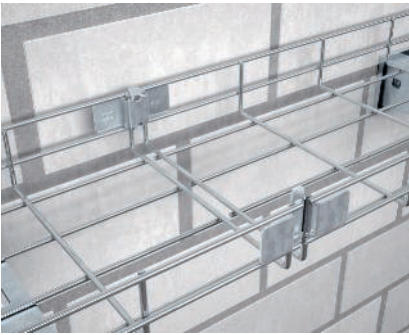
Straight connection of Magic® mesh cable tray
Creation of a screwless straight connection of the mesh cable tray, type GR-Magic®, by interconnecting two stock lengths.



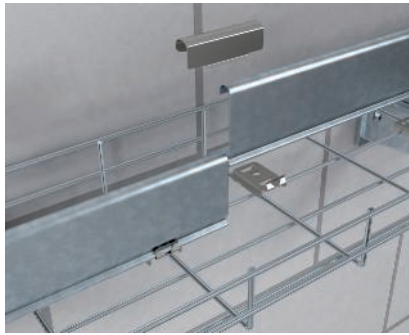
Screwed straight connection of mesh cable trays
Creation of a screwed straight connection of mesh cable trays with joint connectors, type GSV 34.



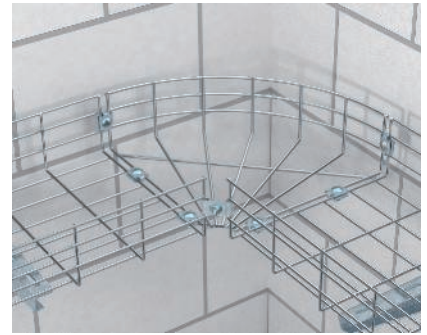
Screwless straight connection with quick connectors
Creation of a screwless straight connection of mesh cable trays using a quick connector, type GRV.



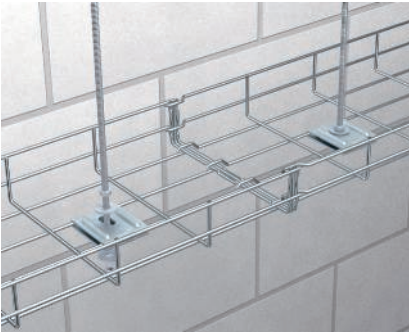
Screwless straight connection of mesh cable trays
Creation of a screwless straight connection of mesh cable trays with joint connectors, type GRS.



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



Installation of a mesh cable tray bend
Mounting of a mesh cable tray bend, type GRB 90.



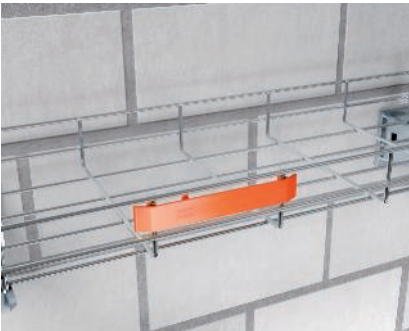
Centre suspension
Suspension of a mesh cable tray using a threaded rod, type 2078, and a wall and floor fastener, type K12 1818. Use with widths of up to 200 mm.



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



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



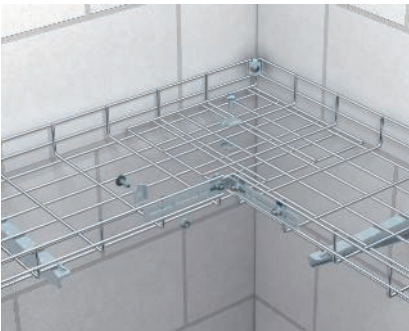
Identification plate
Mounting of the identification plate, type KS-GR, in the side rail of the mesh cable tray.



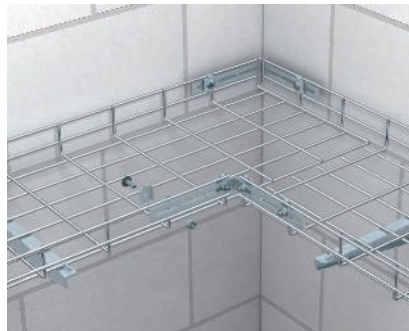
Cover mounting
Cover with snap-on function for easy locking to the mesh cable tray.



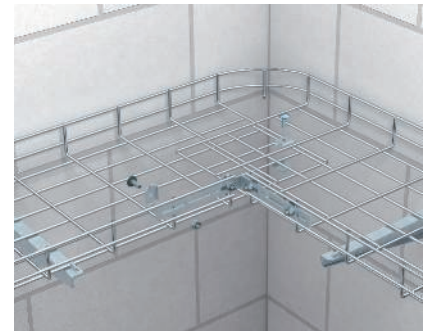
Installation of mesh angle
Fastening of the mesh angle, type GW 40/80, to steel girders using beam clamps, type KL 20 or KL 30.



Creation of a mesh cable tray bend – angular, overlapping
After the mesh cable trays have been cut to size, they can, together with joint connectors, type GSV 34, and a bent slotted steel strap, be installed overlapping to form an angular mesh cable tray bend.



Creation of a mesh cable tray bend – angular
After the mesh cable trays have been cut to size, they can, together with joint connectors, type GSV 34, and a bent slotted steel strap, be installed as a non-overlapping, angular mesh cable tray bend.



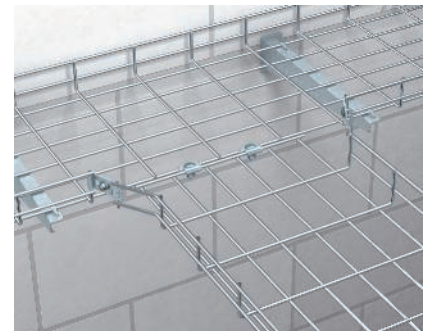
Creation of a mesh cable tray bend – round, overlapping
After the mesh cable trays have been cut to size, they can, together with joint connectors, type GSV 34, and a bent slotted steel strap, be installed overlapping to form a round mesh cable tray bend.



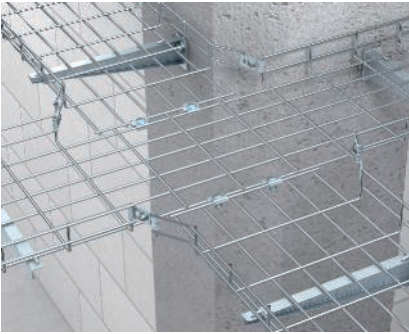
Creation of a mesh cable tray bend - round
Cutting out every second grid allows the creation of mesh cable tray bends with a larger radius. Fixing takes place using corner connectors, type GEV 36.



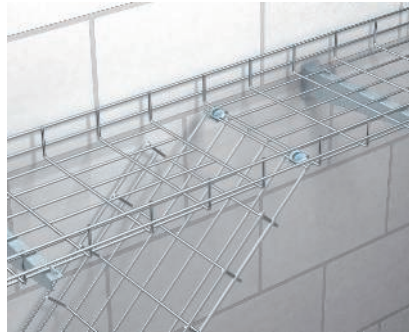
Rising and falling bends
Rising and falling vertical bends can be created by cutting into every second grid of the mesh cable tray edge and bending the mesh cable tray accordingly.



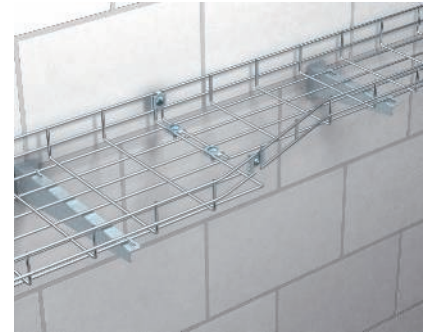
Creation of a mesh cable tray tee
After cutting the side rails and bending the straps, the corner connector, type GEV 36, and the joint connector, type GSV 34, can be used to create tees.



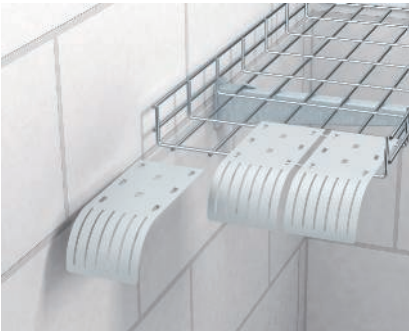
Creation of a mesh cable tray cross-over
After cutting the side rails and bending the straps, the corner connector, type GEV 36, and the joint connector, type GSV 34, can be used to create cross-overs.



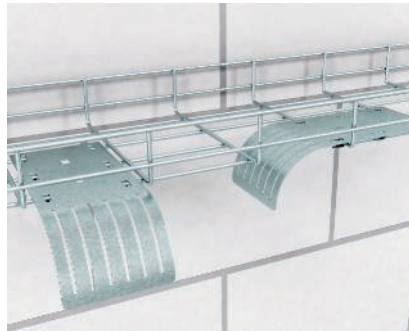
Creation of a vertical exit
After cutting the mesh cable tray base, the vertically branching, cut mesh cable tray can be fixed using the joint connector, type GSV 34.



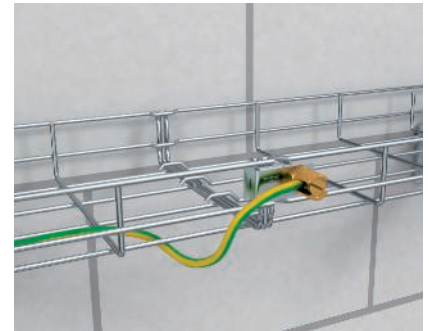
Creation of a reduction
Reductions are possible by single-sided cutting of the different mesh cable tray widths, bending the flaps in the required direction and using the corner connectors, type GEV 36, and the joint connector, type GSV 34.



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



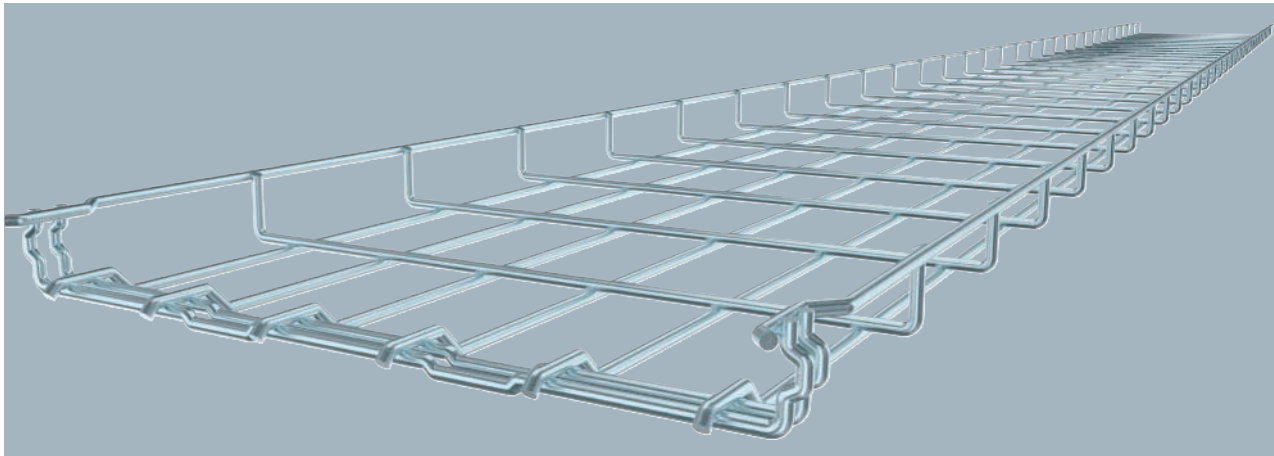
Mesh cable tray with cable exit plate
The cable exit plate can be installed in lengthwise and transverse directions.



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

St G

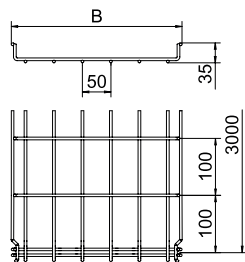
Mesh cable tray GR-Magic® 35



Mesh cable tray with shaped connector of side height 35 mm.

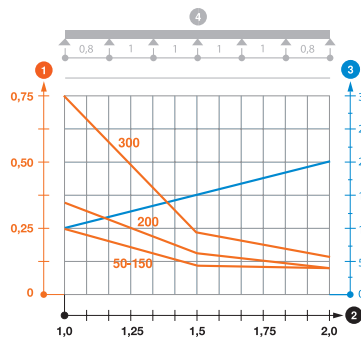
Type	Wire		Pack m	Weight kg/100 m	Item no.
	Width mm	Ø mm			
GRM 35 50 G	50	3.9	3	45.000	6000060
GRM 35 100 G	100	3.9	3	50.333	6000062
GRM 35 150 G	150	3.9	3	63.333	6000063
GRM 35 200 G	200	3.9	3	76.667	6000064
GRM 35 300 G	300	4.8	3	159.000	6000066

Dimensions



Type	Length mm	Dim. B mm	Usable cross- section cm ²
GRM 35 100 G	3000	100	35
GRM 35 150 G	3000	150	52.5
GRM 35 200 G	3000	200	70
GRM 35 300 G	3000	300	105

Load



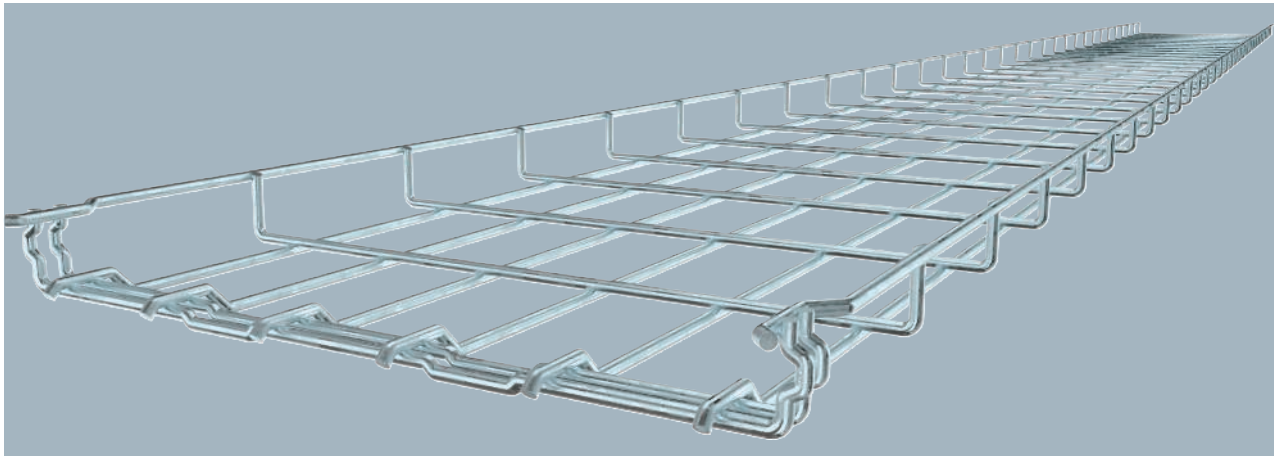
Type	1.0 m	1.5 m	2.0 m
	kN/m	kN/m	kN/m
GRM 35 50 G	0.25	0.11	0.1
GRM 35 100 G	0.25	0.11	0.1
GRM 35 150 G	0.25	0.11	0.1
GRM 35 200 G	0.3	0.14	0.1
GRM 35 300 G	0.75	0.22	0.15

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® 35

St FT



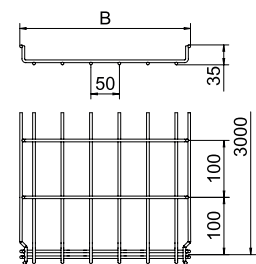
Type	Width mm	Wire	Pack m	Weight kg/100 m	Item no.
		Ø mm			
GRM 35 50 FT	50	3.9	3	46.000	6000069
GRM 35 100 FT	100	3.9	3	50.333	6000071
GRM 35 150 FT	150	3.9	3	64.333	6000072
GRM 35 200 FT	200	3.9	3	78.333	6000073
GRM 35 300 FT	300	4.8	3	165.333	6000075

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.

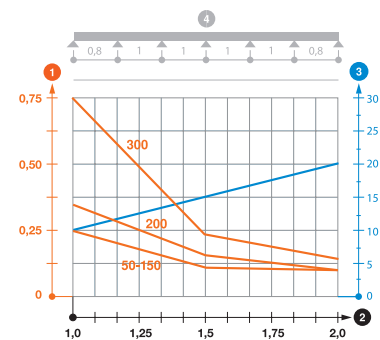
Type	Length mm	Usable	
		Dim. B mm	cross-section cm ²
GRM 35 50 FT	3000	52	17.5
GRM 35 100 FT	3000	100	35
GRM 35 150 FT	3000	150	52.5
GRM 35 200 FT	3000	200	70
GRM 35 300 FT	3000	300	105

Dimensions



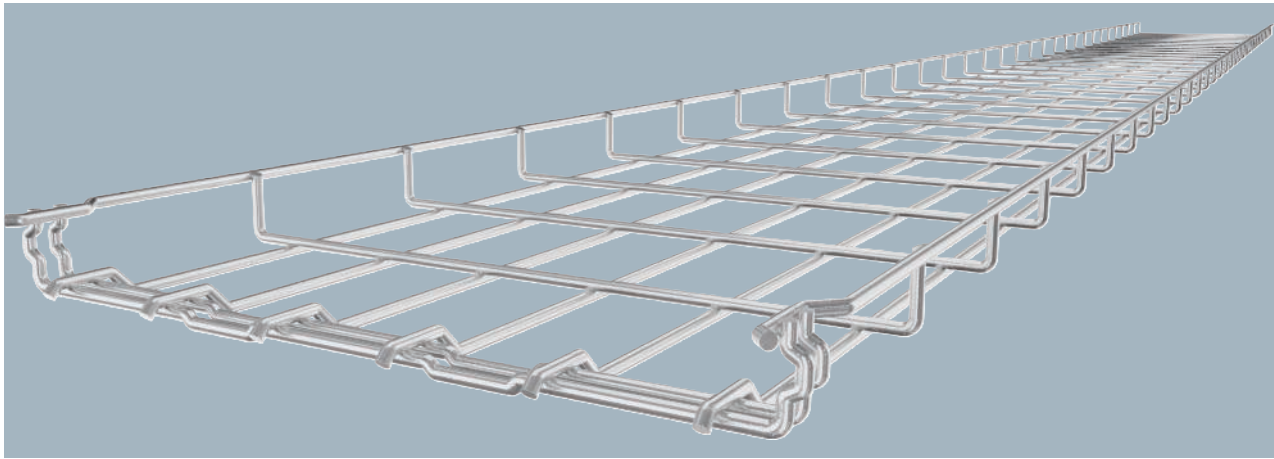
Type	1.0 m	1.5 m	2.0 m
	kN/m	kN/m	kN/m
GRM 35 50 FT	0.25	0.11	0.1
GRM 35 100 FT	0.25	0.11	0.1
GRM 35 150 FT	0.25	0.11	0.1
GRM 35 200 FT	0.3	0.14	0.3
GRM 35 300 FT	0.75	0.22	0.15

Load



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



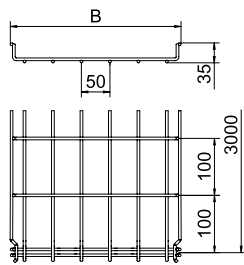
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 35/50 = 20 x 100 mm).

Mesh cable tray with shaped connector of side height 35 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

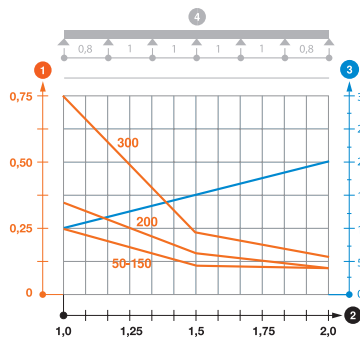
Type	Wire		Pack m	Weight kg/100 m	Item no.
	Width mm	Ø mm			
GRM 35 50 A2	50	3.9	3	45.000	6000054
GRM 35 100 A2	100	3.9	3	49.000	6000055
GRM 35 150 A2	150	3.9	3	63.333	6000056
GRM 35 200 A2	200	3.9	3	76.000	6000057
GRM 35 300 A2	300	4.8	3	159.000	6000059

Dimensions



Type	Length mm	Usable	
		Dim. B mm	cross-section cm ²
GRM 35 50 A2	3000	52	17,5
GRM 35 100 A2	3000	100	35
GRM 35 150 A2	3000	150	52,5
GRM 35 200 A2	3000	200	70
GRM 35 300 A2	3000	300	105

Load



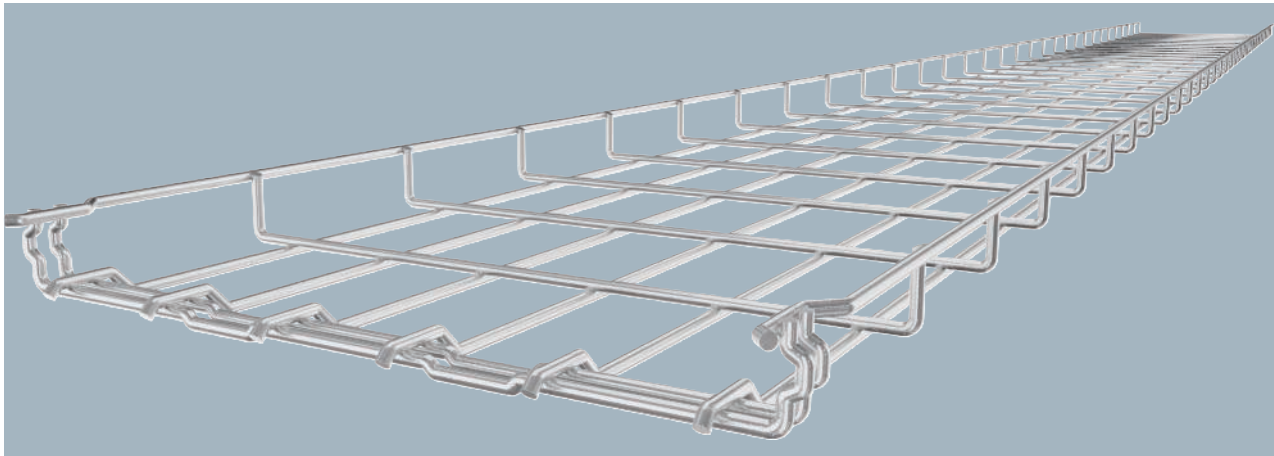
	1.0 m	1.5 m	2.0 m
	kN/m	kN/m	kN/m
GRM 35 50 A2	0.25	0.11	0.1
GRM 35 100 A2	0.25	0.11	0.1
GRM 35 150 A2	0.25	0.11	0.1
GRM 35 200 A2	0.3	0.14	0.1
GRM 35 300 A2	0.75	0.22	0.15

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

Mesh cable tray GR-Magic® 35

VA 2B



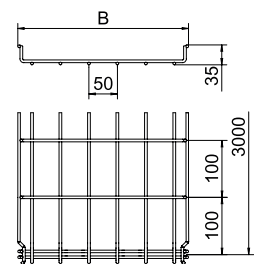
Type	Wire		Pack m	Weight kg/100 m	Item no.
	Width mm	Ø mm			
GRM 35 50 A4	50	3.9	3	45.000	6000086
GRM 35 100 A4	100	3.9	3	49.000	6000087
GRM 35 150 A4	150	3.9	3	63.333	6000089
GRM 35 200 A4	200	3.9	3	76.000	6000090
GRM 35 300 A4	300	4.8	3	159.000	6000091

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.

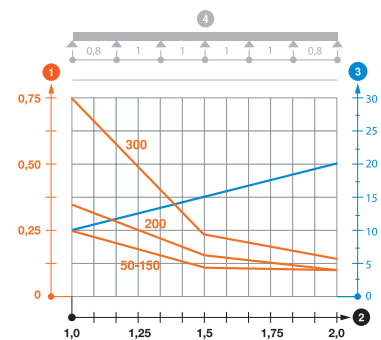
Type	Length mm	Usable	
		Dim. B mm	cross-section cm ²
GRM 35 50 A4	3000	52	17.5
GRM 35 100 A4	3000	100	35
GRM 35 150 A4	3000	150	52.5
GRM 35 200 A4	3000	200	70
GRM 35 300 A4	3000	300	105

Dimensions



Type	1.0 m	1.5 m	2.0 m
	kN/m	kN/m	kN/m
GRM 35 50 A4	0.25	0.11	0.1
GRM 35 100 A4	0.25	0.11	0.1
GRM 35 150 A4	0.25	0.11	0.1
GRM 35 200 A4	0.3	0.14	0.1
GRM 35 300 A4	0.75	0.22	0.15

Load



Load diagram, GR-Magic mesh cable tray, type GRM 35

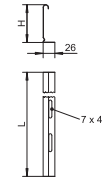
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width

St FS DD

Separating retainer 30

Type	Metal			Pack	Weight	Item no.
	Dim. H	thick-ness	Dim. L			
TSG 30 FS	30 mm	0.75 mm	3000 mm	3	38.000 kg/100 m	6062050
TSG 30 DD	30 mm	0.75 mm	3000 mm	3	38.000 kg/100 m	6062314

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

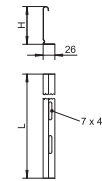


A2 2B

Barrier strip 30

Type	Metal			Pack	Weight	Item no.
	Dim. H	thick-ness	Dim. L			
TSG 30 A2	30 mm	0.75 mm	3000 mm	3	40.434 kg/100 m	6062052

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

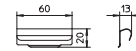


VA 2B

Separating retainer connector

Type	Pack	Weight	Item no.
TSGV A2	10 Piece	0.899 kg/100 pc.	6067970

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

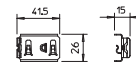


VA 2B

Hold-down clamp for separating retainer fastening in GRM

Type	Pack	Weight	Item no.
KS GR A2	30 Piece	0.830 kg/100 pc.	6062282

Hold-down clamp for fastening separating retainer in mesh cable trays.

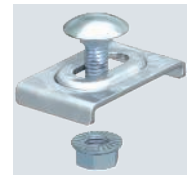
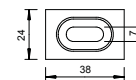


St G

GKT 38 hold-down clamp

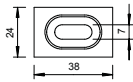
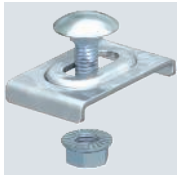
Type	Pack	Weight	Item no.
GKT 38 G	20 Piece	2.123 kg/100 pc.	6017037

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



GKT 38 hold-down clamp

St FT



Type

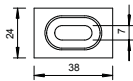
GKT 38 FT

Pack Piece	Weight kg/100 pc.	Item no.
20	2.123	6017061

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

GKT 38 hold-down clamp

A2 VA 2B



Type

GKT 38 A2
GKT 38 A4

Pack Piece	Weight kg/100 pc.	Item no.
20	2.107	6017045
10	2.200	6017092

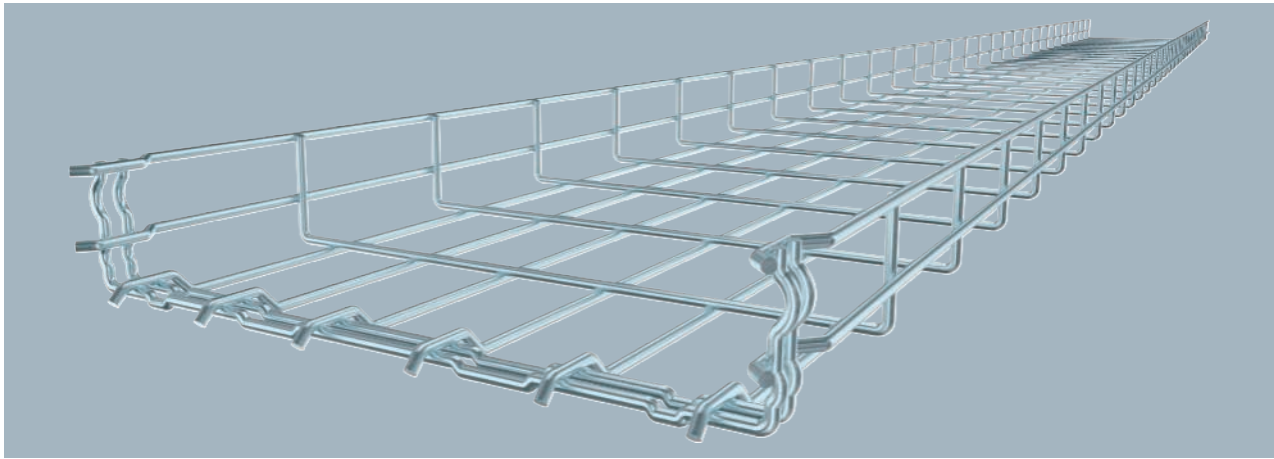
Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

Mesh cable trays



GR-Magic® 55 mesh cable tray

St G



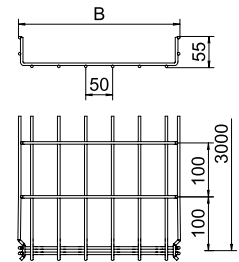
Type	Wire			Pack m	Weight kg/100 m	Item no.
	Width mm	Ø mm	BS			
GRM 55 50 G	50	3.9		3	67.000	6001441
GRM 55 100 G	100	3.9	🔥	3	72.000	6001442
GRM 55 150 G	150	3.9		3	85.667	6001444
GRM 55 200 G	200	3.9	🔥	3	100.667	6001446
GRM 55 200 4.8 G	200	4.8	🔥	3	150.000	6001447
GRM 55 300 G	300	4.8	🔥	3	192.333	6001448
GRM 55 400 G	400	4.8	🔥	3	234.667	6001450
GRM 55 450 G	450	4.8		3	241.333	6001451
GRM 55 500 G	500	4.8		3	276.667	6001452
GRM 55 600 G	600	4.8		3	320.000	6001454

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.

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). Tested for the maintenance of electrical function according to DIN 4102 Part 12 (type: GRM 55 200 4.8 G, GRM 55 300 G, GRM 55 400 G, mounting work and parameters according to valid test certificate).
Tested for installation above suspended fire protection ceilings (type: GRM 55 100 G, GRM 55 200 G, GRM 55 300 G, GRM 55 400 G, fire load 30 minutes, mounting work and parameters according to fire protection reports).

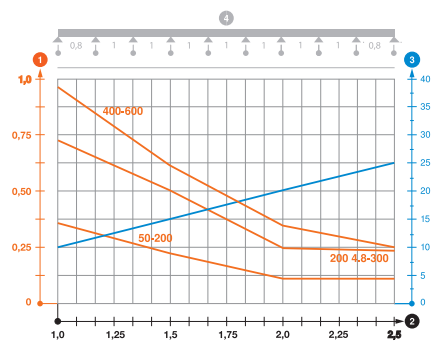
Type	Length mm	Dim. B mm	Usable cross- section cm ²
GRM 55 50 G	3000	52	16
GRM 55 100 G	3000	100	40
GRM 55 150 G	3000	150	63
GRM 55 200 G	3000	200	87
GRM 55 200 4.8 G	3000	200	87
GRM 55 300 G	3000	300	129
GRM 55 400 G	3000	400	175
GRM 55 450 G	3000	450	195
GRM 55 500 G	3000	500	220
GRM 55 600 G	3000	600	265

Dimensions



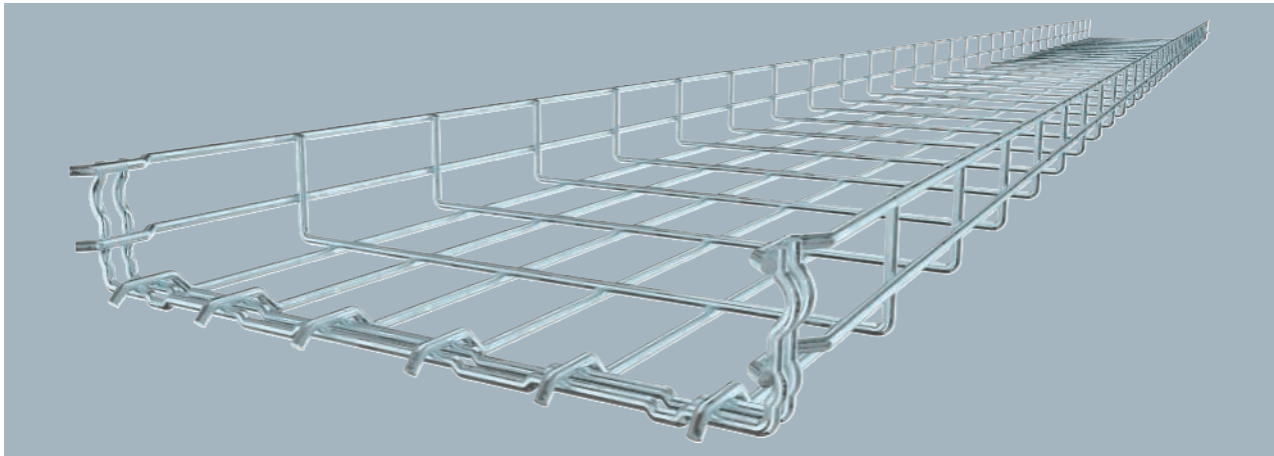
	1.0 m	1.5 m	2.0 m	2.5 m
	kN/m	kN/m	kN/m	kN/m
GRM 55 50 G	0.35	0.2	0.1	0.1
GRM 55 100 G	0.35	0.2	0.1	0.1
GRM 55 150 G	0.35	0.2	0.1	0.1
GRM 55 200 G	0.35	0.2	0.1	0.1
GRM 55 200 4.8 G	0.7	0.5	0.25	0.2
GRM 55 300 G	0.7	0.5	0.25	0.2
GRM 55 400 G	0.9	0.6	0.3	0.25
GRM 55 450 G	0.9	0.6	0.3	0.25
GRM 55 500 G	0.9	0.6	0.3	0.25
GRM 55 600 G	0.9	0.6	0.3	0.25

Load



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

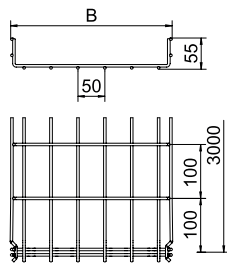


Mesh cable tray with shaped connector of side height 55 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
You can find detailed information regarding the UL classification in the respective certification.

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).

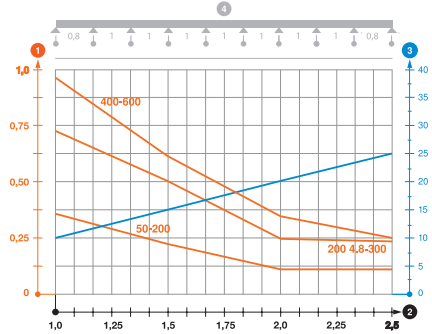
Type	Wire		Pack m	Weight kg/100 m	Item no.
	Width mm	Ø mm			
GRM 55 50 FT	50	3.9	3	72.333	6001415
GRM 55 100 FT	100	3.9	3	74.667	6001416
GRM 55 150 FT	150	3.9	3	90.000	6001418
GRM 55 200 FT	200	3.9	3	102.000	6001420
GRM 55 200 4.8FT	200	4.8	3	156.667	6001421
GRM 55 300 FT	300	4.8	3	200.667	6001424
GRM 55 400 FT	400	4.8	3	245.000	6001428
GRM 55 500 FT	500	4.8	3	288.333	6001432
GRM 55 600 FT	600	4.8	3	331.333	6001436

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
GRM 55 100 FT	3000	100	40
GRM 55 150 FT	3000	150	63
GRM 55 200 FT	3000	200	87
GRM 55 200 4.8FT	3000	200	87
GRM 55 300 FT	3000	300	129
GRM 55 400 FT	3000	400	175
GRM 55 500 FT	3000	500	220
GRM 55 600 FT	3000	600	265

Load

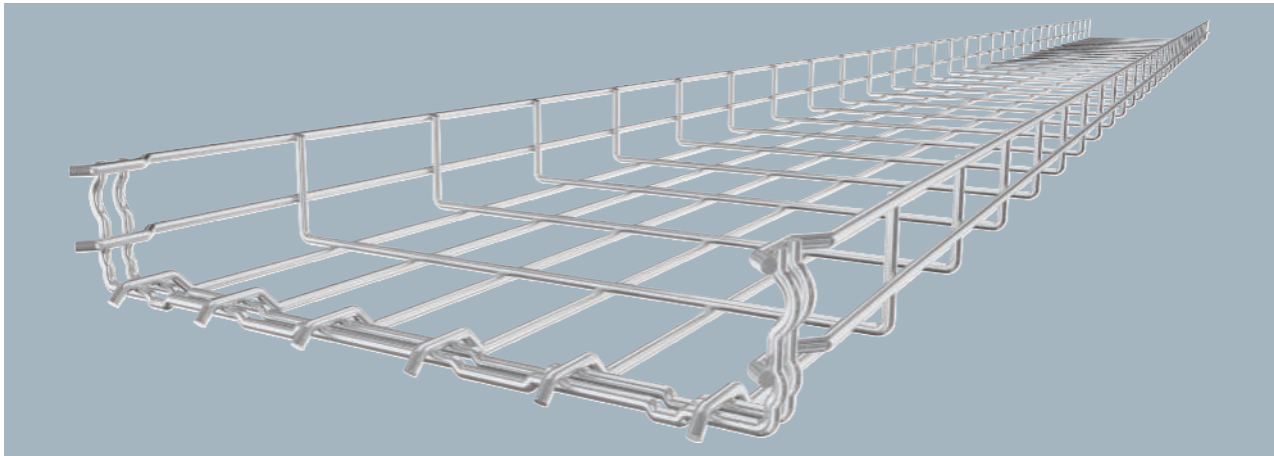


	1.0 m	1.5 m	2.0 m	2.5 m
	kN/m	kN/m	kN/m	kN/m
GRM 55 50 FT	0.35	0.2	0.1	0.1
GRM 55 100 FT	0.35	0.2	0.1	0.1
GRM 55 150 FT	0.35	0.2	0.1	0.1
GRM 55 200 FT	0.35	0.2	0.1	0.1
GRM 55 200 4.8FT	0.7	0.5	0.25	0.2
GRM 55 300 FT	0.7	0.5	0.25	0.2
GRM 55 400 FT	0.9	0.6	0.3	0.25
GRM 55 500 FT	0.9	0.6	0.3	0.25
GRM 55 600 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® 55

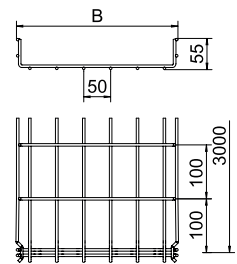


Type	Width mm	Wire		Pack m	Weight kg/100 m	Item no.
		Ø mm	BS			
GRM 55 50 A2	50	3.9		3	67.000	6001070
GRM 55 100 A2	100	3.9		3	72.000	6001072
GRM 55 150 A2	150	3.9		3	85.667	6001074
GRM 55 200 A2	200	3.9		3	99.000	6001076
GRM 55 300 A2	300	4.8	🔥	3	192.333	6001078
GRM 55 400 A2	400	4.8		3	234.667	6001080
GRM 55 500 A2	500	4.8		3	276.667	6001082
GRM 55 600 A2	600	4.8		3	320.000	6001085

Mesh cable tray with shaped connector of side height 55 mm.
 Magnetic shield insulation without cover 15 dB, with cover 25 dB.
 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).

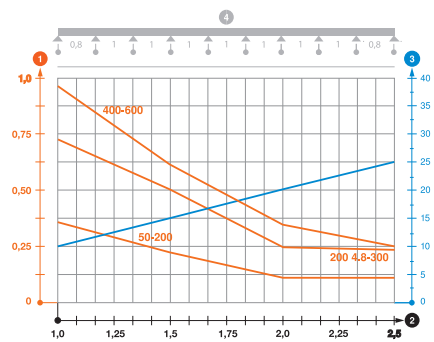
Type	Length mm	Usable	
		Dim. B mm	cross-section cm ²
GRM 55 50 A2	3000	52	16
GRM 55 100 A2	3000	100	40
GRM 55 150 A2	3000	150	63
GRM 55 200 A2	3000	200	87
GRM 55 300 A2	3000	300	129
GRM 55 400 A2	3000	400	175
GRM 55 500 A2	3000	500	220
GRM 55 600 A2	3000	600	265

Dimensions



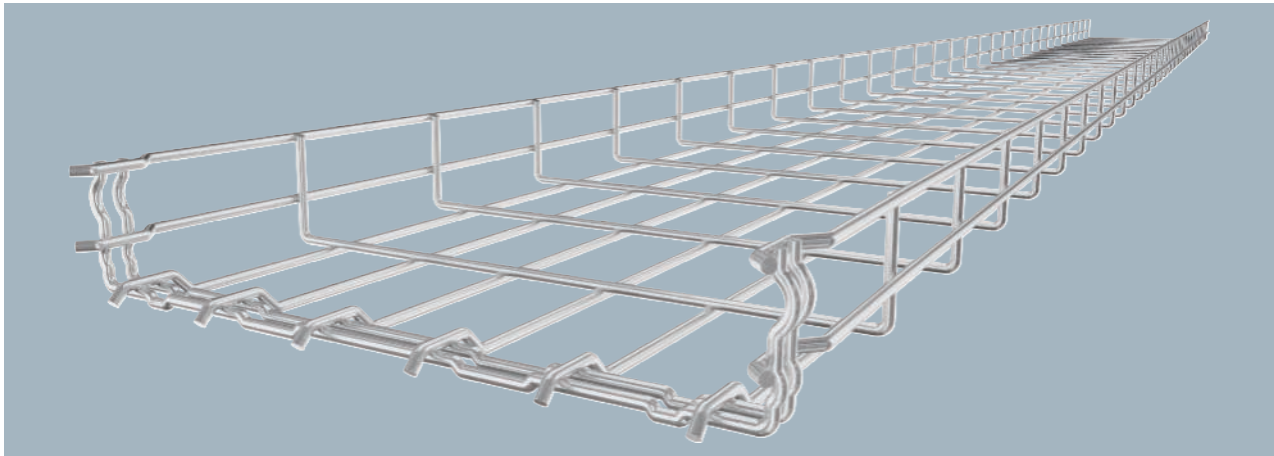
Type	Usable			
	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
GRM 55 50 A2	0.35	0.2	0.1	0.1
GRM 55 100 A2	0.35	0.2	0.1	0.1
GRM 55 150 A2	0.35	0.2	0.1	0.1
GRM 55 200 A2	0.35	0.2	0.1	0.1
GRM 55 300 A2	0.7	0.5	0.25	0.2
GRM 55 400 A2	0.9	0.6	0.3	0.25
GRM 55 500 A2	0.9	0.6	0.3	0.25
GRM 55 600 A2	0.9	0.6	0.3	0.25

Load



Load diagram, mesh cable tray GRM 55 VA

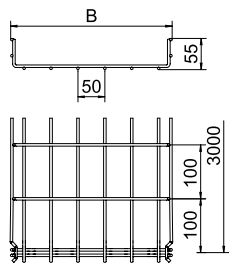
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



Mesh cable tray with shaped connector of side height 55 mm.
 Magnetic shield insulation without cover 15 dB, with cover 25 dB.
 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).

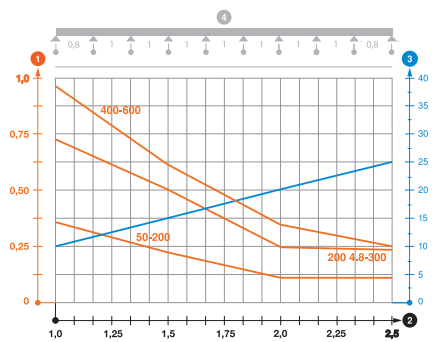
Type	Wire			Pack m	Weight kg/100 m	Item no.
	Width mm	Ø mm	BS			
GRM 55 50 A4	50	3.9		3	67.000	6001087
GRM 55 100 A4	100	3.9		3	72.000	6001088
GRM 55 150 A4	150	3.9		3	85.667	6001090
GRM 55 200 A4	200	3.9		3	99.000	6001091
GRM 55 300 A4	300	4.8	🔥	3	192.333	6001093
GRM 55 400 A4	400	4.8		3	234.667	6001095
GRM 55 500 A4	500	4.8		3	276.667	6001097
GRM 55 600 A4	600	4.8		3	320.000	6001099

Dimensions



Type	Length mm	Dim. B mm	Usable Dim. cross- section cm²	
			B	section
GRM 55 50 A4	3000	52	16	
GRM 55 100 A4	3000	100	40	
GRM 55 150 A4	3000	150	63	
GRM 55 200 A4	3000	200	87	
GRM 55 300 A4	3000	300	129	
GRM 55 400 A4	3000	400	175	
GRM 55 500 A4	3000	500	220	
GRM 55 600 A4	3000	600	265	

Load



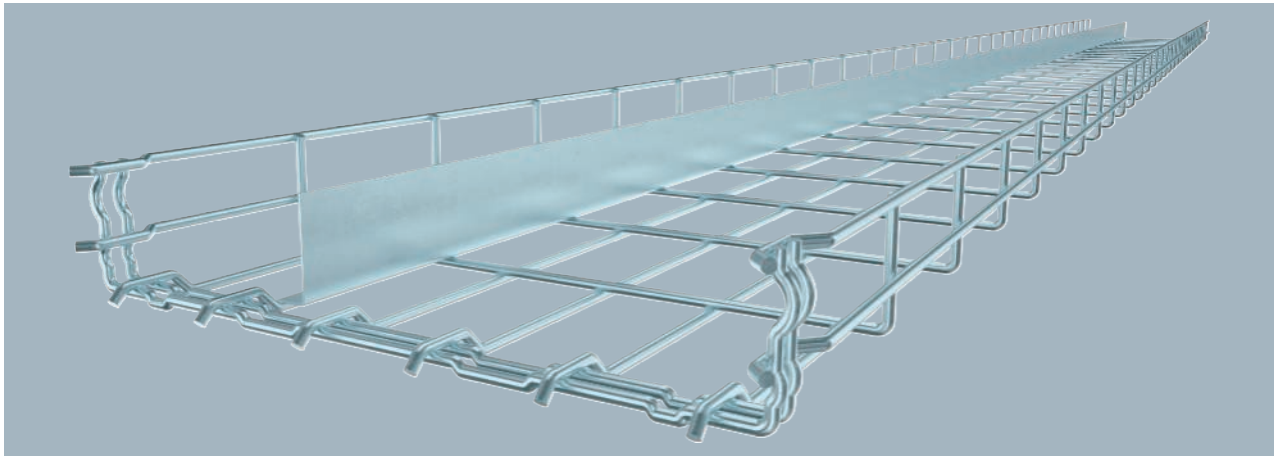
	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
GRM 55 50 A4	0.35	0.2	0.1	0.1
GRM 55 100 A4	0.35	0.2	0.1	0.1
GRM 55 150 A4	0.35	0.2	0.1	0.1
GRM 55 200 A4	0.35	0.2	0.1	0.1
GRM 55 300 A4	0.7	0.5	0.25	0.2
GRM 55 400 A4	0.9	0.6	0.3	0.25
GRM 55 500 A4	0.9	0.6	0.3	0.25
GRM 55 600 A4	0.9	0.6	0.3	0.25

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® 55 with barrier strip

St G



Type	Wire		Pack m	Weight kg/100 m	Item no.
	Width mm	Ø mm			
GRM-T 55 100 G	100	3.9	3	117.433	6006453
GRM-T 55 200 G	200	3.9	3	143.333	6006455
GRM-T 55 300 G	300	4.8	3	237.067	6006456
GRM-T 55 400 G	400	4.8	3	280.800	6006457
GRM-T 55 500 G	500	4.8	3	320.000	6006458

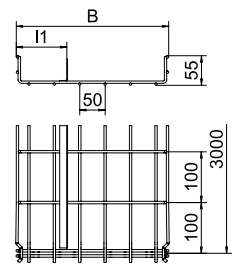
Mesh cable tray with shaped connector and welded barrier strips of side height 55 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

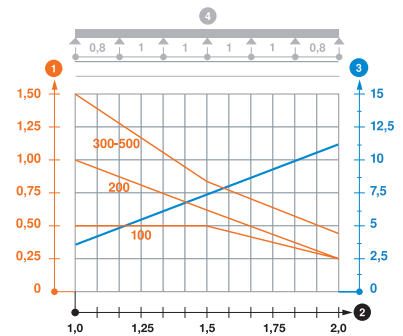
Type	Length mm	Dim. B mm	Usable cross- section cm ²
GRM-T 55 200 G	3000	200	87
GRM-T 55 300 G	3000	300	129
GRM-T 55 400 G	3000	400	175
GRM-T 55 500 G	3000	500	220

Dimensions



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

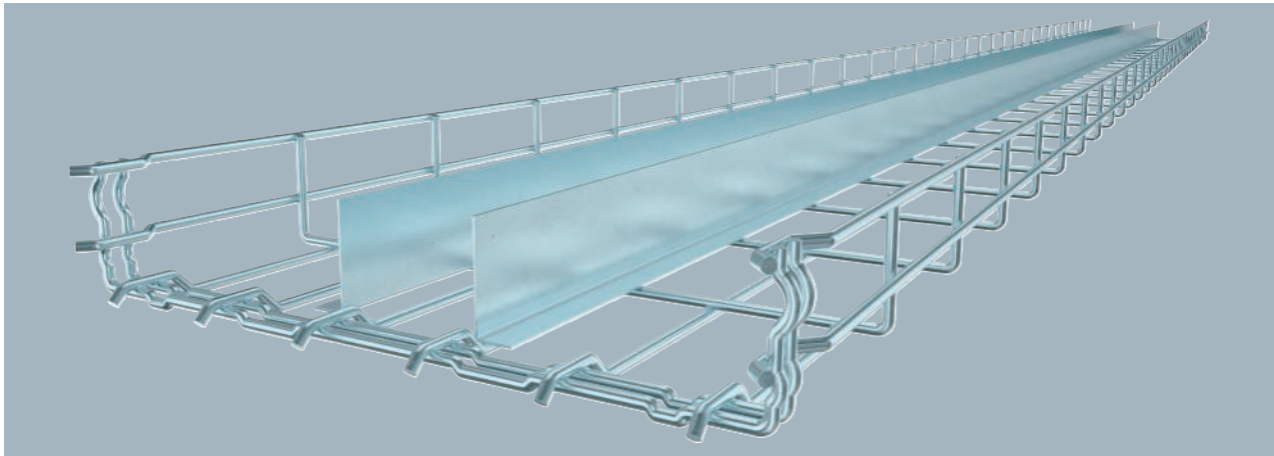
Load



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

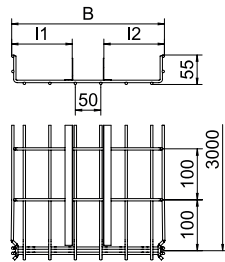
Mesh cable tray GR-Magic® 55 with 2 barrier strip



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.
 No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

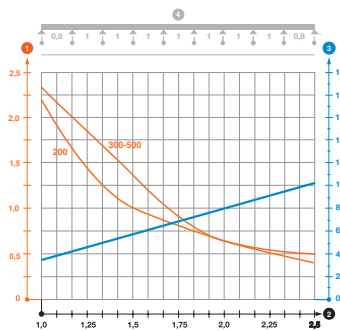
Type	Wire		Pack m	Weight kg/100 m	Item no.
	Width mm	Ø mm			
GRM-2T 55 200 G	200	3.9	3	189.700	6006395
GRM-2T 55 300 G	300	4.8	3	289.867	6006396
GRM-2T 55 400 G	400	4.8	3	327.933	6006397
GRM-2T 55 500 G	500	4.8	3	370.633	6006468

Dimensions



Type	Length mm	Dim. B mm	Usable
			Dim. cross-section cm²
GRM-2T 55 200 G	3000	200	87
GRM-2T 55 300 G	3000	300	129
GRM-2T 55 400 G	3000	400	175
GRM-2T 55 500 G	3000	500	220

Load



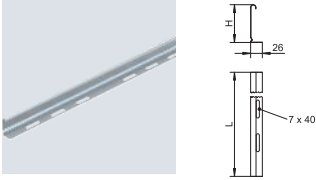
	1.0 m	1.5 m	2.0 m
	kN/m	kN/m	kN/m
GRM-2T 55 200 G	2	1	0.4
GRM-2T 55 300 G	2.3	1.4	0.6
GRM-2T 55 400 G	2.3	1.4	0.6
GRM-2T 55 500 G	1.5	0.8	0.55

Load diagram, GR-Magic mesh cable tray, type GRM-2T 55

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

Separating retainer 45

St FS DD

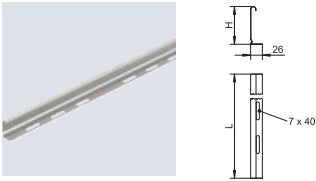


Type	Metal			Pack m	Weight kg/100 m	Item no.
	Dim. H mm	thick- ness mm	Dim. L mm			
TSG 45 FS	45	0.75	3000	3	46.700	6062033
TSG 45 DD	45	0.75	3000	3	46.812	6062321

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

Separating retainer 45

A2 A4 2B

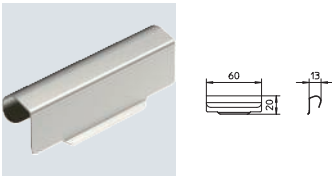


Type	Metal			Pack m	Weight kg/100 m	Item no.
	Dim. H mm	thick- ness mm	Dim. L mm			
TSG 45 A2	45	0.75	3000	3	49.850	6062025
TSG 45 A4	45	0.75	3000	3	49.850	6062028

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

Separating retainer connector

VA 2B

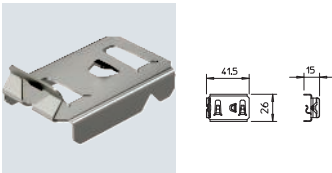


Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

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

Hold-down clamp for separating retainer fastening in GRM

VA 2B

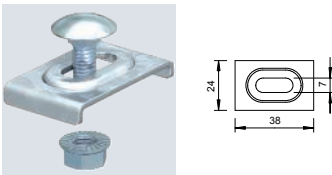


Type	Pack Piece	Weight kg/100 pc.	Item no.
KS GR A2	30	0.830	6062282

Hold-down clamp for fastening separating retainer in mesh cable trays.

GKT 38 hold-down clamp

St G



Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 G	20	2.123	6017037

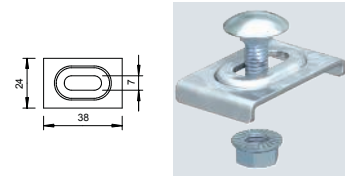
Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

St FT

GKT 38 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 FT	20	2.123	6017061

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

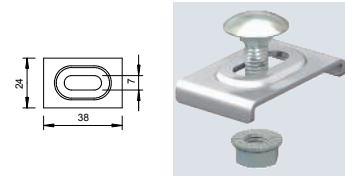


A2 VA 2B

GKT 38 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 A2	20	2.107	6017045
GKT 38 A4	10	2.200	6017092

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

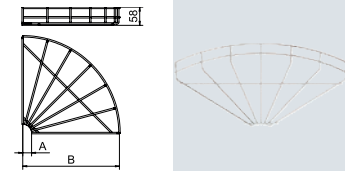


St G

90° mesh cable tray bend, 55

Type	Width mm	Wire Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
GRB 90 510 G	100	3.9	1	6.997	6001920
GRB 90 515 G	150	3.9	1	14.400	6001998
GRB 90 520 G	200	3.9	1	18.800	6001939
GRB 90 530 G	300	4.8	1	50.500	6001947
GRB 90 540 G	400	4.8	1	66.100	6001955
GRB 90 550 G	500	4.8	1	95.500	6001963
GRB 90 560 G	600	4.8	1	114.100	6001971

90° bend, horizontal, for all mesh cable trays of 55 mm side height.

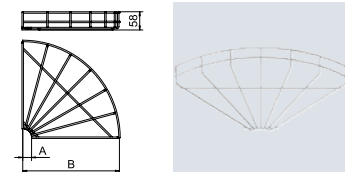


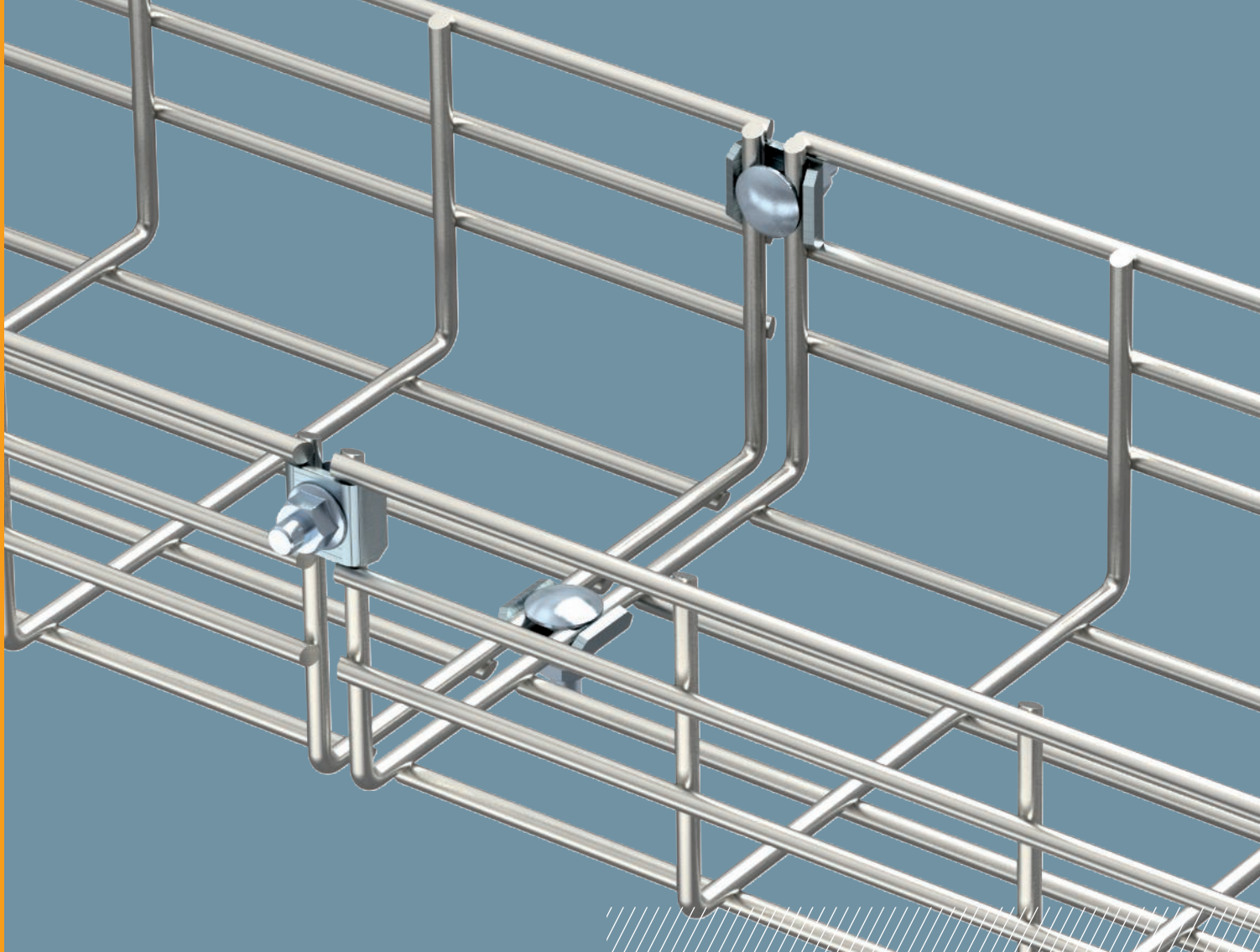
St FT

90° mesh cable tray bend, 55

Type	Width mm	Wire Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
GRB 90 510 FT	100	3.9	1	7.400	6002218
GRB 90 520 FT	200	3.9	1	19.800	6002226
GRB 90 530 FT	300	4.8	1	52.600	6002234
GRB 90 540 FT	400	4.8	1	68.900	6002242
GRB 90 550 FT	500	4.8	1	99.600	6002250
GRB 90 560 FT	600	4.8	1	118.900	6002269
GRB 90 515 FT	150	3.9	1	15.100	6002222

90° bend, horizontal, for all mesh cable trays of 55 mm side height.

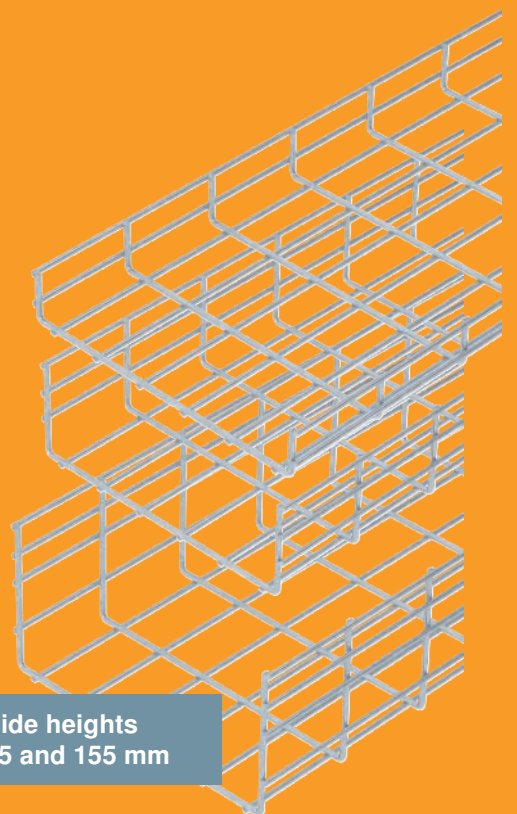




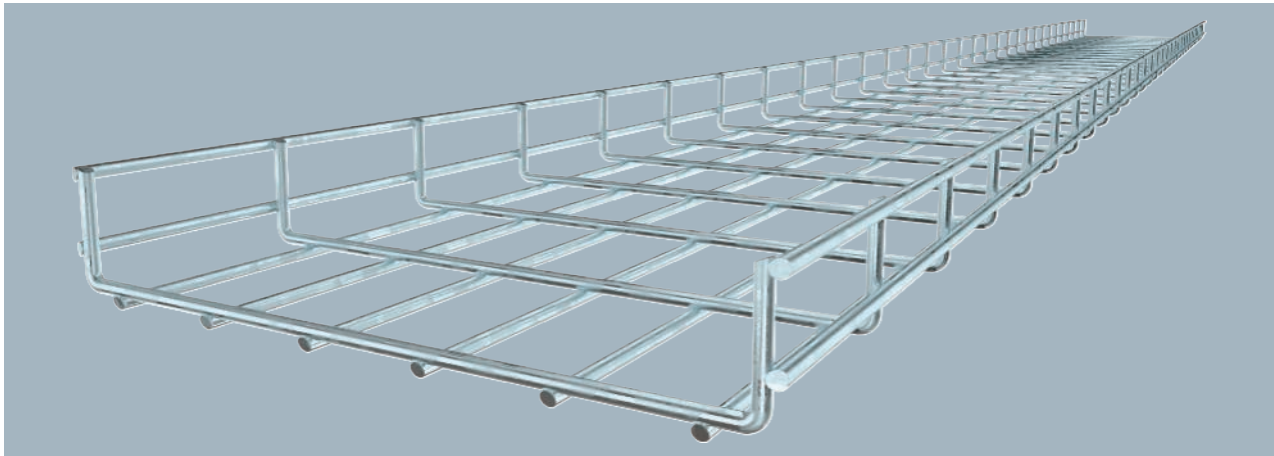
Heavy-duty SGR mesh cable tray made of 6 mm wire

Today, due to the wide range of applications, the requirements for mesh cable trays differ a great deal. Besides simple mounting, a high load capacity, dirt-repelling qualities, good ventilation behaviour and high-quality surface refinement are particularly in demand.

The new heavy-duty mesh cable tray of type SGR, made of 6 mm-thick wire in a U profile, combines many advantages all at the same time. The strong wire design means that the SGR, with its low intrinsic weight, can withstand load capacities of up to 110% more than the comparable mesh cable trays of competitors and can thus also be used for larger support spacings of up to 4.0 m.



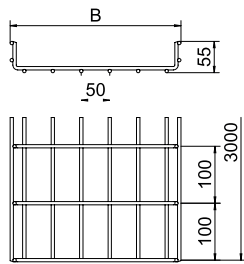
3 side heights
55, 105 and 155 mm



Mesh cable tray made of spot-welded steel wire of side height 55 mm.
 Magnetic shield insulation without cover 15 dB, with cover 25 dB.
 The grid width is 50 x 100 mm.

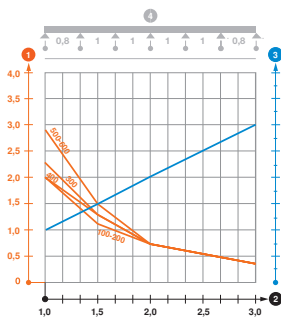
Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
SGR 55 100 FT	100	6	3	171.667	6000122
SGR 55 150 FT	150	6	3	205.333	6000190
SGR 55 200 FT	200	6	3	238.667	6000209
SGR 55 300 FT	300	6	3	305.667	6000331
SGR 55 400 FT	400	6	3	372.667	6000451
SGR 55 500 FT	500	6	3	439.667	6000515
SGR 55 600 FT	600	6	3	507.000	6000775

Dimensions



Type	Length mm	Dim. B mm	Usable cross- section cm ²
SGR 55 100 FT	3000	100	40
SGR 55 150 FT	3000	150	63
SGR 55 200 FT	3000	200	87
SGR 55 300 FT	3000	300	129
SGR 55 400 FT	3000	400	175
SGR 55 500 FT	3000	500	220
SGR 55 600 FT	3000	600	265

Load



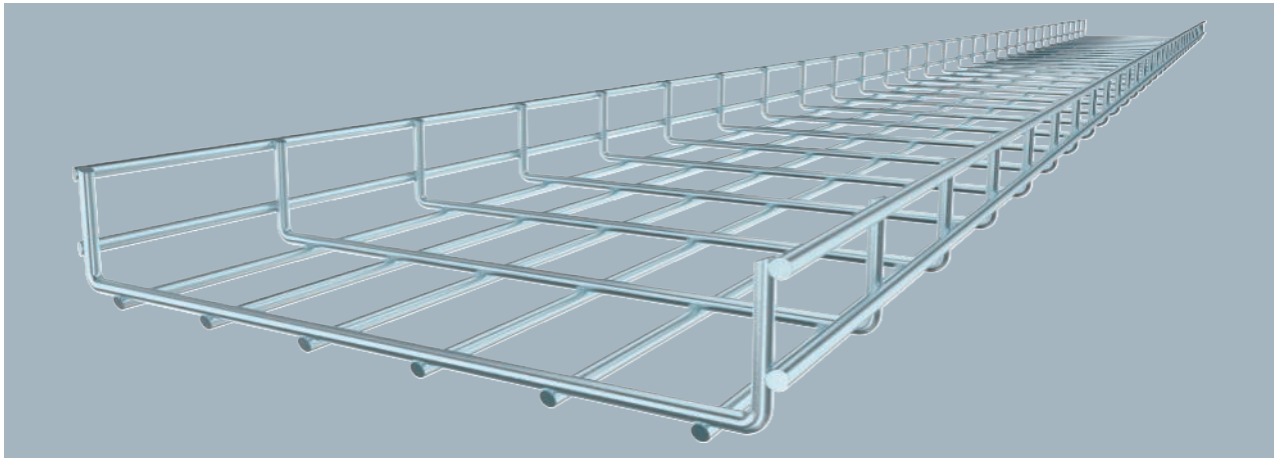
	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
SGR 55 100 FT	2	1.15	0.75	0.4
SGR 55 150 FT	2	1.15	0.75	0.4
SGR 55 200 FT	2	1.15	0.75	0.4
SGR 55 300 FT	2	1.3	0.75	0.4
SGR 55 400 FT	2.3	1.3	0.75	0.4
SGR 55 500 FT	2.9	1.5	0.75	0.4
SGR 55 600 FT	2.9	1.5	0.75	0.4

Load diagram, mesh cable tray, type SGR 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

Heavy-duty cable tray SGR 55

St G



Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
SGR 55 100 G	100	6	3	166.333	6005470
SGR 55 150 G	150	6	3	199.000	6005472
SGR 55 200 G	200	6	3	230.067	6005474
SGR 55 300 G	300	6	3	293.233	6005476
SGR 55 400 G	400	6	3	357.033	6005478
SGR 55 500 G	500	6	3	426.333	6005480
SGR 55 600 G	600	6	3	491.667	6005482

Mesh cable tray made of spot-welded steel wire of side height 55 mm.

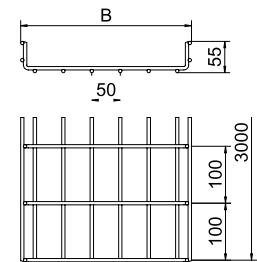
Magnetic shield insulation without cover 15 dB, with cover 25 dB.

The grid dimension is 50 x 100 mm.

Stainless steel version on request.

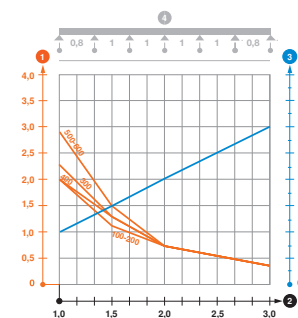
Type	Length mm	Dim. B mm	Usable cross- section cm ²
SGR 55 100 G	3000	100	40
SGR 55 150 G	3000	150	63
SGR 55 200 G	3000	200	87
SGR 55 300 G	3000	300	129
SGR 55 400 G	3000	400	175
SGR 55 500 G	3000	500	220
SGR 55 600 G	3000	600	265

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
SGR 55 100 G	2	1.15	0.75	0.4
SGR 55 150 G	2	1.15	0.75	0.4
SGR 55 200 G	2	1.15	0.75	0.4
SGR 55 300 G	2	1.3	0.75	0.4
SGR 55 400 G	2.3	1.3	0.75	0.4
SGR 55 500 G	2.9	1.5	0.75	0.4
SGR 55 600 G	2.9	1.5	0.75	0.4

Load



Load diagram, mesh cable tray, type SGR 55

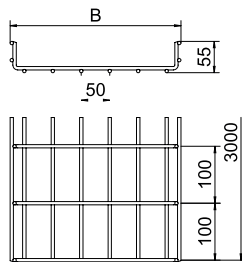
- 1 Permitted cable tray/ladder load in kN/m without man load
 - 2 Support width in m
 - 3 Rail bend in mm at permitted kN/m
 - 4 Load scheme during testing
- Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width



Mesh cable tray made of spot-welded steel wire of side height 55 mm.
 Magnetic shield insulation without cover 15 dB, with cover 25 dB.
 The grid width is 50 x 100 mm.

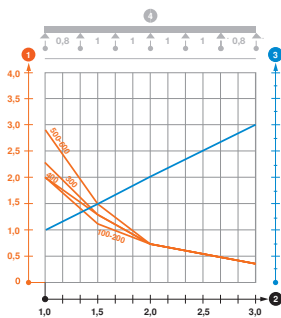
Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
SGR 55 100 A2	100	6	3	166.000	6000909
SGR 55 150 A2	150	6	3	198.000	6000913
SGR 55 200 A2	200	6	3	231.333	6000917
SGR 55 300 A2	300	6	3	296.333	6000925
SGR 55 400 A2	400	6	3	361.333	6000933
SGR 55 500 A2	500	6	3	426.333	6000941
SGR 55 600 A2	600	6	3	491.667	6000958

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm ²
SGR 55 100 A2	3000	100	40
SGR 55 150 A2	3000	150	63
SGR 55 200 A2	3000	200	87
SGR 55 300 A2	3000	300	129
SGR 55 400 A2	3000	400	175
SGR 55 500 A2	3000	500	220
SGR 55 600 A2	3000	600	265

Load



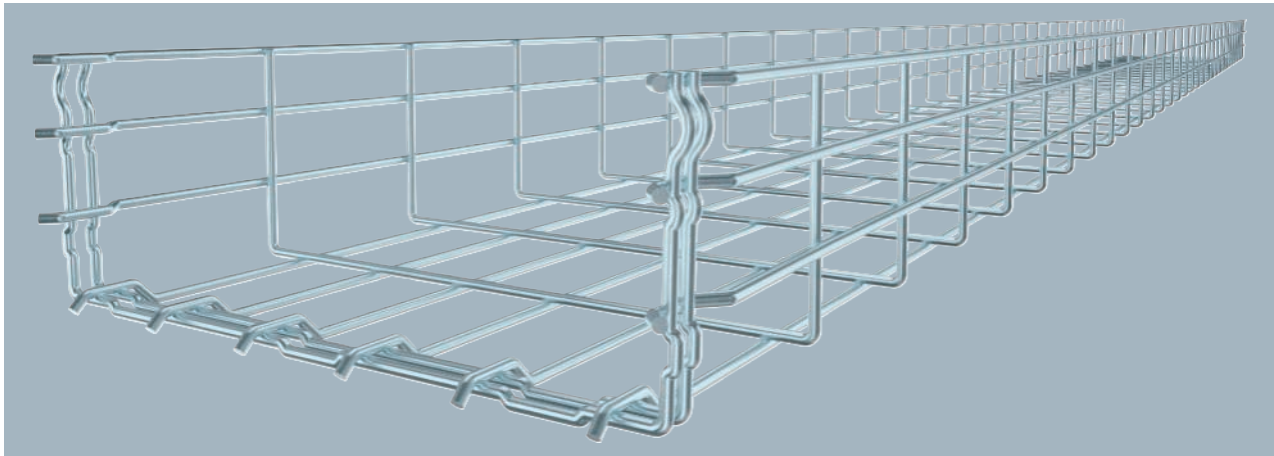
	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
SGR 55 100 A2	2	1.15	0.75	0.4
SGR 55 150 A2	2	1.15	0.75	0.4
SGR 55 200 A2	2	1.15	0.75	0.4
SGR 55 300 A2	2	1.3	0.75	0.4
SGR 55 400 A2	2.3	1.3	0.75	0.4
SGR 55 500 A2	2.9	1.5	0.75	0.4
SGR 55 600 A2	2.9	1.5	0.75	0.4

Load diagram, mesh cable tray, type SGR 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® 105

St G

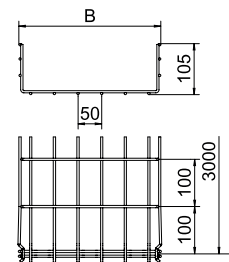


Type	Wire		Pack m	Weight kg/100 m	Item no.
	Width mm	Ø mm			
GRM 105 100 G	100	3.9	3	99.333	6002402
GRM 105 150 G	150	3.9	3	111.667	6002404
GRM 105 200 G	200	4.8	3	192.333	6002406
GRM 105 300 G	300	4.8	3	234.667	6002408
GRM 105 400 G	400	4.8	3	278.000	6002410
GRM 105 450 G	450	4.8	3	283.333	6002413
GRM 105 500 G	500	4.8	3	319.000	6002415
GRM 105 600 G	600	4.8	3	363.333	6002417

Mesh cable tray with shaped connector of side height 105 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

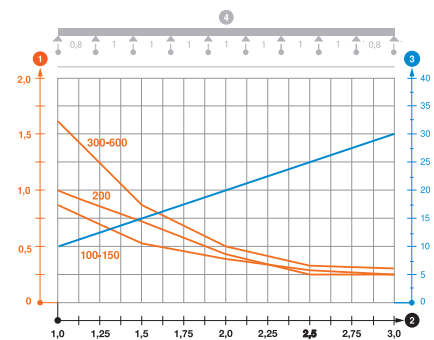
Type	Length mm	Dim. B mm	Usable
			Dim. cross-section cm ²
GRM 105 100 G	3000	100	82
GRM 105 150 G	3000	150	130
GRM 105 200 G	3000	200	175
GRM 105 300 G	3000	300	268
GRM 105 400 G	3000	400	363
GRM 105 450 G	3000	450	411
GRM 105 500 G	3000	500	459
GRM 105 600 G	3000	600	554

Dimensions



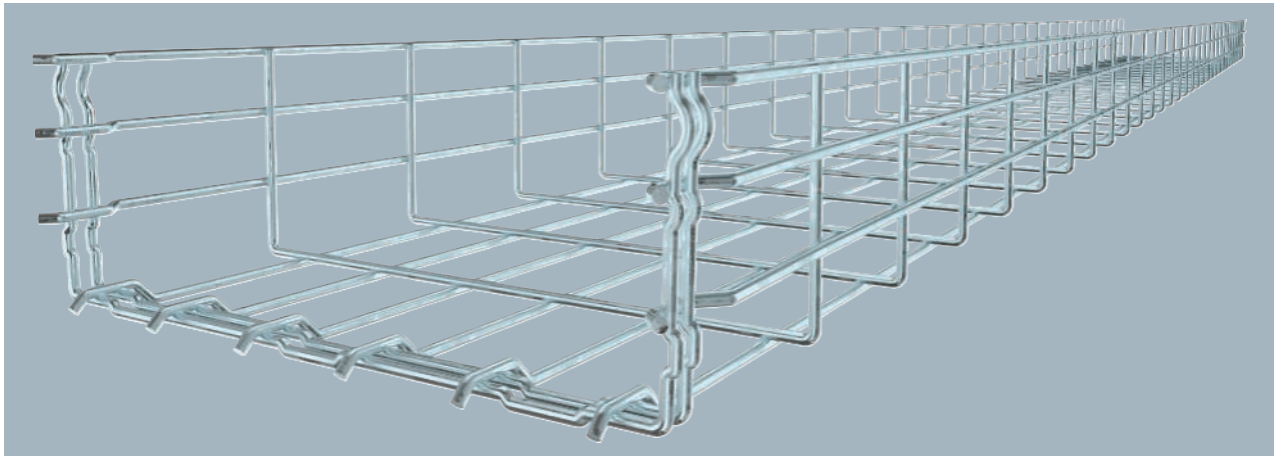
	1.0 m	1.5 m	2.0 m	3.0 m
	kN/m	kN/m	kN/m	kN/m
GRM 105 100 G	0.8	0.55	0.37	0.25
GRM 105 150 G	0.8	0.55	0.37	0.25
GRM 105 200 G	1	0.7	0.4	0.25
GRM 105 300 G	1.6	0.8	0.5	0.3
GRM 105 400 G	1.6	0.8	0.5	0.3
GRM 105 450 G	1.6	0.8	0.5	0.3
GRM 105 500 G	1.6	0.8	0.5	0.3
GRM 105 600 G	1.6	0.8	0.5	0.3

Load



Load diagram, mesh cable tray, type GRM 105

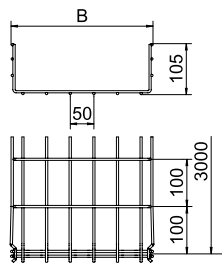
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



Mesh cable tray with shaped connector of side height 105 mm.
 Magnetic shield insulation without cover 15 dB, with cover 25 dB.
 No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

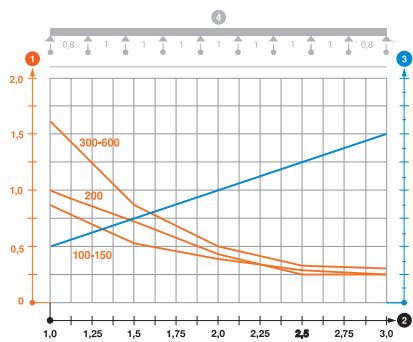
Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
GRM 105 100 FT	100	3.9	3	105.333	6002431
GRM 105 150 FT	150	3.9	3	119.000	6002433
GRM 105 200 FT	200	4.8	3	202.333	6002435
GRM 105 300 FT	300	4.8	3	244.000	6002437
GRM 105 400 FT	400	4.8	3	288.333	6002439
GRM 105 450 FT	450	4.8	3	293.333	6002441
GRM 105 500 FT	500	4.8	3	335.000	6002443
GRM 105 600 FT	600	4.8	3	375.000	6002445

Dimensions



Type	Length mm	Dim. B mm	Usable cross- section cm²
GRM 105 100 FT	3000	100	82
GRM 105 150 FT	3000	150	130
GRM 105 200 FT	3000	200	175
GRM 105 300 FT	3000	300	268
GRM 105 400 FT	3000	400	363
GRM 105 450 FT	3000	450	411
GRM 105 500 FT	3000	500	459
GRM 105 600 FT	3000	600	554

Load



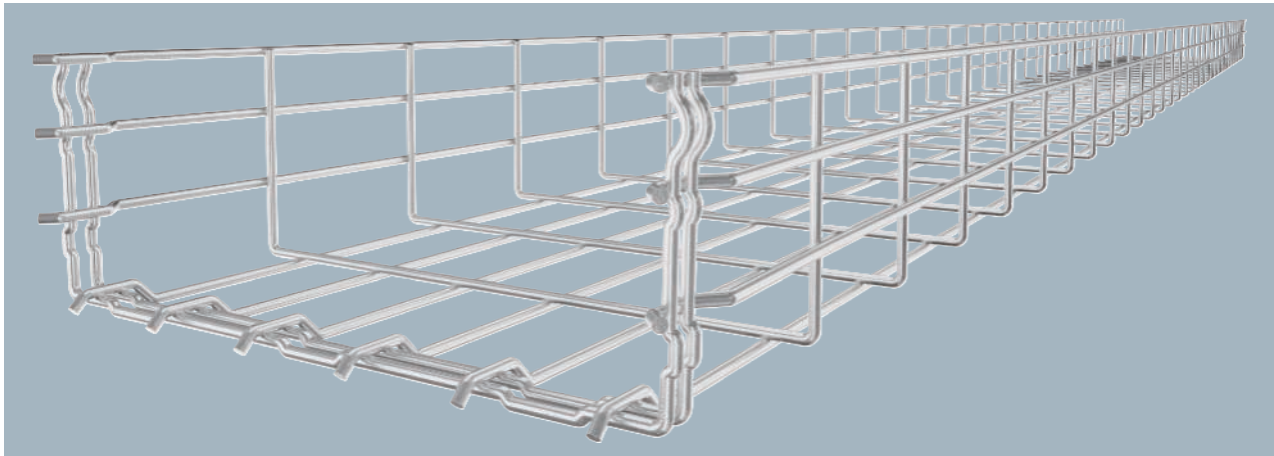
	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
GRM 105 100 FT	0.8	0.55	0.37	0.25
GRM 105 150 FT	0.8	0.55	0.37	0.25
GRM 105 200 FT	1	0.7	0.4	0.25
GRM 105 300 FT	1.6	0.8	0.5	0.3
GRM 105 400 FT	1.6	0.8	0.5	0.3
GRM 105 450 FT	1.6	0.8	0.5	0.3
GRM 105 500 FT	1.6	0.8	0.5	0.3
GRM 105 600 FT	1.6	0.8	0.5	0.3

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

Mesh cable tray GR-Magic® 105

A2 2B

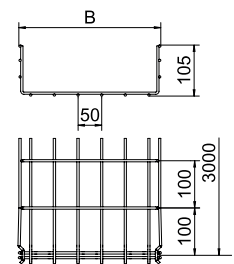


Type	Wire		Pack m	Weight kg/100 m	Item no.
	Width mm	Ø mm			
GRM 105 100 A2	100	3.9	3	99.333	6002451
GRM 105 150 A2	150	3.9	3	111.667	6002455
GRM 105 200 A2	200	4.8	3	200.667	6002457
GRM 105 300 A2	300	4.8	3	234.667	6002460
GRM 105 400 A2	400	4.8	3	277.000	6002463
GRM 105 500 A2	500	4.8	3	319.000	6002466
GRM 105 600 A2	600	4.8	3	363.333	6002469

Mesh cable tray with shaped connector of side height 105 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

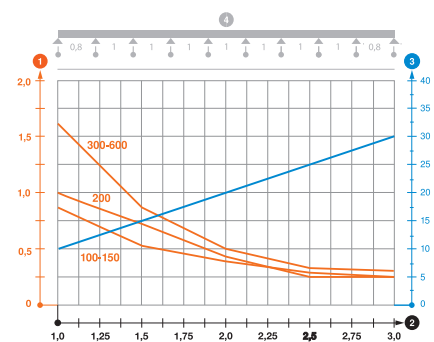
Type	Length mm	Dim. B mm	Usable cross- section cm ²
GRM 105 150 A2	3000	150	130
GRM 105 200 A2	3000	200	175
GRM 105 300 A2	3000	300	268
GRM 105 400 A2	3000	400	363
GRM 105 500 A2	3000	500	459
GRM 105 600 A2	3000	600	554

Dimensions



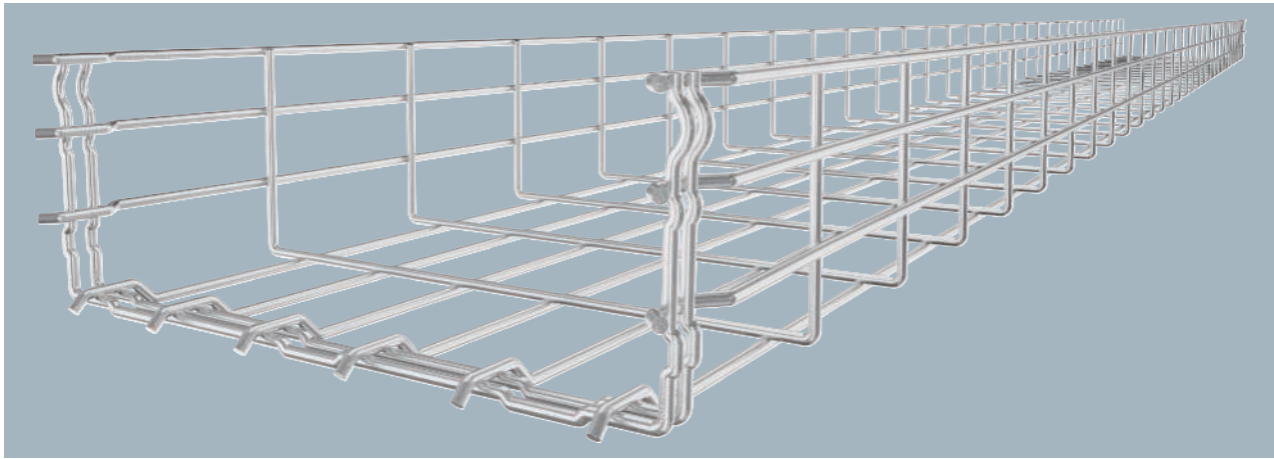
	1.0 m	1.5 m	2.0 m	3.0 m
	kN/m	kN/m	kN/m	kN/m
GRM 105 100 A2	0.8	0.55	0.37	0.25
GRM 105 150 A2	0.8	0.55	0.37	0.25
GRM 105 200 A2	0.8	0.55	0.37	0.25
GRM 105 300 A2	1.1	0.75	0.53	0.3
GRM 105 400 A2	1.1	0.75	0.53	0.3
GRM 105 500 A2	1.25	0.85	0.6	0.3
GRM 105 600 A2	1.25	0.85	0.6	0.3

Load



Load diagram, mesh cable tray, type GRM 105

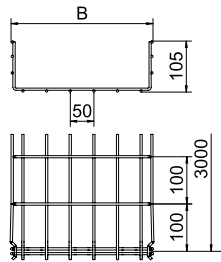
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



Mesh cable tray with shaped connector of side height 105 mm.
 Magnetic shield insulation without cover 15 dB, with cover 25 dB.
 No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

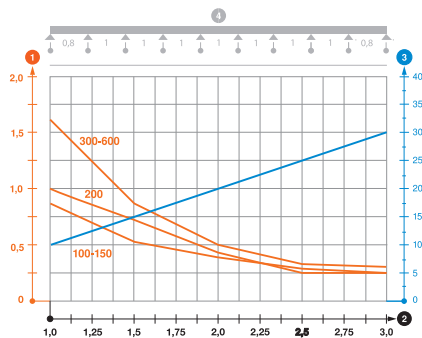
Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
GRM 105 100 A4	100	3.9	3	99.333	6002475
GRM 105 150 A4	150	3.9	3	111.667	6002476
GRM 105 200 A4	200	4.8	3	192.333	6002477
GRM 105 300 A4	300	4.8	3	235.000	6002479
GRM 105 400 A4	400	4.8	3	277.000	6002481
GRM 105 500 A4	500	4.8	3	319.000	6002483
GRM 105 600 A4	600	4.8	3	363.333	6002485

Dimensions



Type	Length mm	Dim. B mm	Usable cross- section cm²
GRM 105 100 A4	3000	100	82
GRM 105 150 A4	3000	150	130
GRM 105 200 A4	3000	200	175
GRM 105 300 A4	3000	300	268
GRM 105 400 A4	3000	400	363
GRM 105 500 A4	3000	500	459
GRM 105 600 A4	3000	600	554

Load



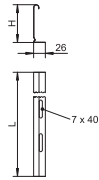
	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
GRM 105 100 A4	0.8	0.55	0.37	0.25
GRM 105 150 A4	0.8	0.55	0.37	0.25
GRM 105 200 A4	0.8	0.55	0.37	0.25
GRM 105 300 A4	1.1	0.75	0.53	0.3
GRM 105 400 A4	1.1	0.75	0.53	0.3
GRM 105 500 A4	1.25	0.85	0.6	0.3
GRM 105 600 A4	1.25	0.85	0.6	0.3

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 85

St FS DD

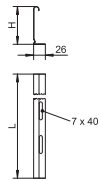


Type	Metal			Pack m	Weight kg/100 m	Item no.
	Dim. H mm	thick- ness mm	Dim. L mm			
TSG 85 FS	85	0.75	3000	3	70.233	6062114
TSG 85 DD	85	0.75	3000	3	70.300	6062331

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

Barrier strip 85

A2 2B

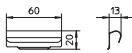


Type	Metal			Pack m	Weight kg/100 m	Item no.
	Dim. H mm	thick- ness mm	Dim. L mm			
TSG 85 A2	85	0.75	3000	3	74.958	6062173

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

Separating retainer connector

VA 2B

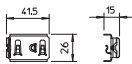


Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

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

Hold-down clamp for separating retainer fastening in GRM

VA 2B

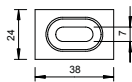
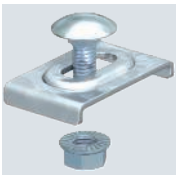


Type	Pack Piece	Weight kg/100 pc.	Item no.
KS GR A2	30	0.830	6062282

Hold-down clamp for fastening separating retainer in mesh cable trays.

GKT 38 hold-down clamp

St G



Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 G	20	2.123	6017037

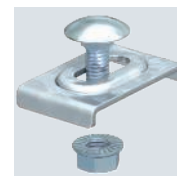
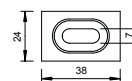
Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

St FT

GKT 38 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 FT	20	2.123	6017061

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

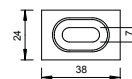


A2 VA 2B

GKT 38 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 A2	20	2.107	6017045
GKT 38 A4	10	2.200	6017092

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

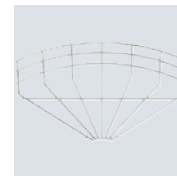
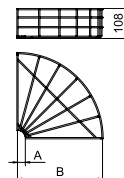


St G

90° mesh cable tray bend, 105

Type	Width mm	Dim. A mm	Dim. B mm	Dim. H mm	Wire Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
GRB 90 110 G	100	28	106	108	3.9	1	9.780	6002370
GRB 90 115 G	150	28	156	108	3.9	1	18.800	6002372
GRB 90 120 G	200	28	206	108	4.8	1	36.300	6002374
GRB 90 130 G	300	28	306	108	4.8	1	61.500	6002376
GRB 90 140 G	400	28	406	108	4.8	1	79.200	6002378
GRB 90 145 G	450	33	456	108	4.8	1	101.800	6002380
GRB 90 150 G	500	33	506	108	4.8	1	112.000	6002382
GRB 90 160 G	600	33	606	108	4.8	1	132.700	6002384

90° bend, horizontal, for all mesh cable trays of 105 mm side height.

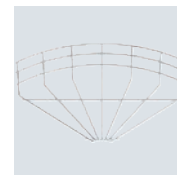
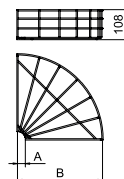


St FT

90° mesh cable tray bend, 105

Type	Width mm	Dim. A mm	Dim. B mm	Dim. H mm	Wire Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
GRB 90 110 FT	100	28	106	108	3.9	1	10.300	6002307
GRB 90 115 FT	150	28	156	108	3.9	1	19.300	6002311
GRB 90 120 FT	200	28	206	108	4.8	1	37.900	6002315
GRB 90 130 FT	300	28	306	108	4.8	1	64.100	6002323
GRB 90 140 FT	400	28	406	108	4.8	1	82.600	6002331
GRB 90 150 FT	500	33	506	108	4.8	1	116.800	6002358
GRB 90 160 FT	600	33	606	108	4.8	1	138.400	6002366

90° bend, horizontal, for all mesh cable trays of 105 mm side height.



Heavy-duty cable tray SGR 105

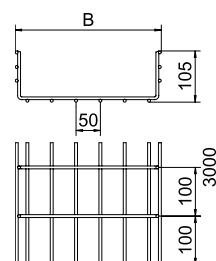


Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
SGR 105 150 G	150	6	3	264.000	6002608
SGR 105 200 G	200	6	3	296.333	6002612
SGR 105 300 G	300	6	3	361.333	6002614
SGR 105 400 G	400	6	3	426.333	6002616
SGR 105 500 G	500	6	3	491.667	6002620
SGR 105 600 G	600	6	3	557.333	6002622

Mesh cable tray made of spot-welded steel wire of side height 105 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
The grid dimension is 50 x 100 mm.

Type	Length mm	Usable Dim. B mm	cross- section cm ²
SGR 105 150 G	3000	150	130
SGR 105 200 G	3000	200	175
SGR 105 300 G	3000	300	268
SGR 105 400 G	3000	400	363
SGR 105 500 G	3000	500	459
SGR 105 600 G	3000	600	554

Dimensions

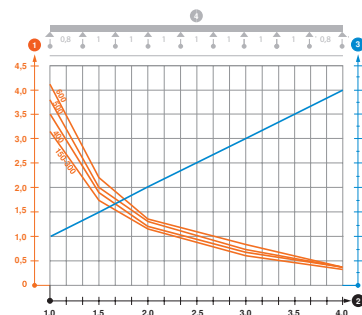


	1.0 m	1.5 m	2.0 m	3.0 m	4.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
SGR 105 150 G	3.1	1.75	1.15	0.6	0.4
SGR 105 200 G	3.1	1.75	1.15	0.6	0.4
SGR 105 300 G	3.1	1.75	1.15	0.6	0.4
SGR 105 400 G	3.5	1.9	1.2	0.7	0.45
SGR 105 500 G	3.8	2	1.3	0.75	0.45
SGR 105 600 G	4.1	2.2	1.35	0.8	0.45

Load

Load diagram, mesh cable tray, type SGR 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

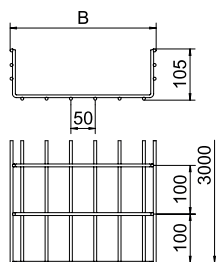




Mesh cable tray made of spot-welded steel wire of side height 105 mm.
 Magnetic shield insulation without cover 15 dB, with cover 25 dB.
 The grid width is 50 x 100 mm.

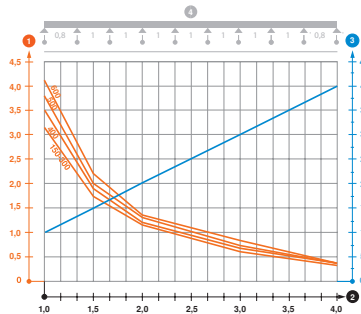
Type	Wire		Pack m	Weight kg/100 m	Item no.
	Width mm	Ø mm			
SGR 105 150 FT	150	6	3	272.333	6003175
SGR 105 200 FT	200	6	3	305.667	6003214
SGR 105 300 FT	300	6	3	372.667	6003309
SGR 105 400 FT	400	6	3	439.667	6003402
SGR 105 500 FT	500	6	3	507.000	6003515
SGR 105 600 FT	600	6	3	574.667	6003616

Dimensions



Type	Length mm	Dim. B mm	Usable
			Dim. cross-section cm ²
SGR 105 150 FT	3000	150	130
SGR 105 200 FT	3000	200	175
SGR 105 300 FT	3000	300	268
SGR 105 400 FT	3000	400	363
SGR 105 500 FT	3000	500	459
SGR 105 600 FT	3000	600	554

Load

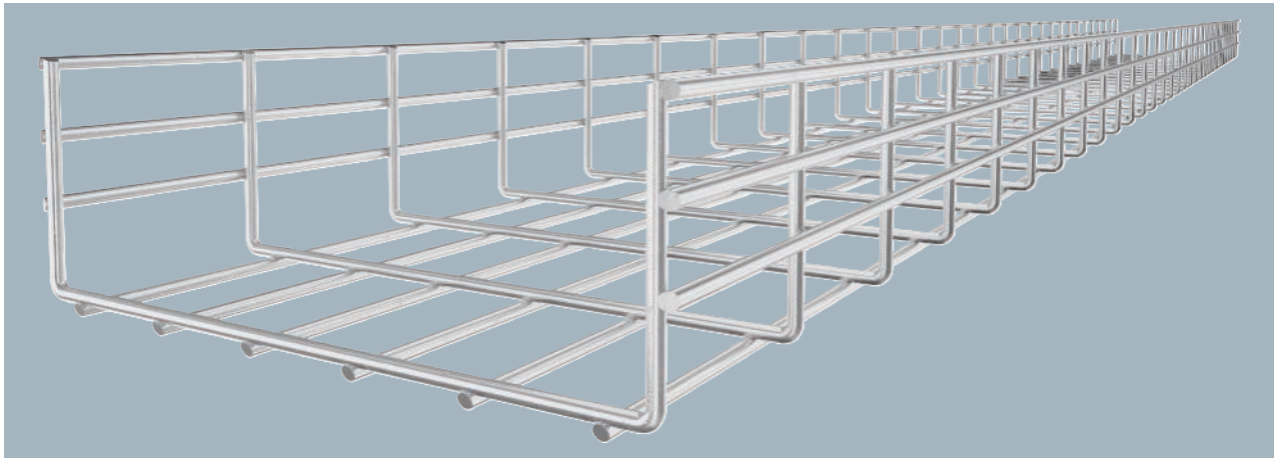


	1.0 m	1.5 m	2.0 m	3.0 m	4.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
SGR 105 150 FT	3.1	1.75	1.15	0.6	0.4
SGR 105 200 FT	3.1	1.75	1.15	0.6	0.4
SGR 105 300 FT	3.1	1.75	1.15	0.6	0.4
SGR 105 400 FT	3.5	1.9	1.2	0.7	0.45
SGR 105 500 FT	3.8	2	1.3	0.75	0.45
SGR 105 600 FT	4.1	2.2	1.35	0.8	0.45

Load diagram, mesh cable tray, type SGR 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

Heavy-duty cable tray SGR 105

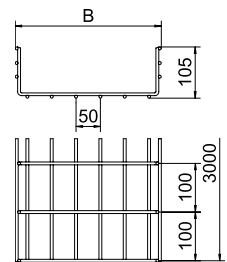


Type	Wire		Pack m	Weight kg/100 m	Item no.
	Width mm	Ø mm			
SGR 105 150 A2	150	6	3	264.000	6003623
SGR 105 200 A2	200	6	3	296.333	6003625
SGR 105 300 A2	300	6	3	361.333	6003627
SGR 105 400 A2	400	6	3	426.333	6003629
SGR 105 500 A2	500	6	3	491.667	6003631
SGR 105 600 A2	600	6	3	557.333	6003633

Mesh cable tray made of spot-welded steel wire of side height 105 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
The grid width is 50 x 100 mm.

Type	Length mm	Dim. B mm	Usable
			cross- section cm ²
SGR 105 150 A2	3000	150	130
SGR 105 200 A2	3000	200	175
SGR 105 300 A2	3000	300	268
SGR 105 400 A2	3000	400	363
SGR 105 500 A2	3000	500	459
SGR 105 600 A2	3000	600	554

Dimensions

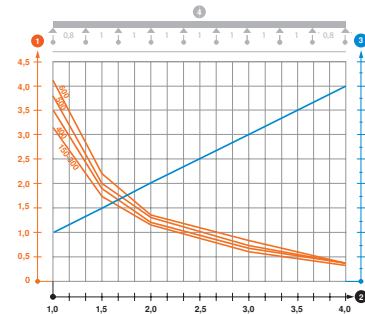


Type	1.0 m	1.5 m	2.0 m	3.0 m	4.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
SGR 105 150 A2	3.1	1.75	1.15	0.6	0.4
SGR 105 200 A2	3.1	1.75	1.15	0.6	0.4
SGR 105 300 A2	3.1	1.75	1.15	0.6	0.4
SGR 105 400 A2	3.5	1.9	1.2	0.7	0.45
SGR 105 500 A2	3.8	2	1.3	0.75	0.45
SGR 105 600 A2	4.1	2.2	1.35	0.8	0.45

Load

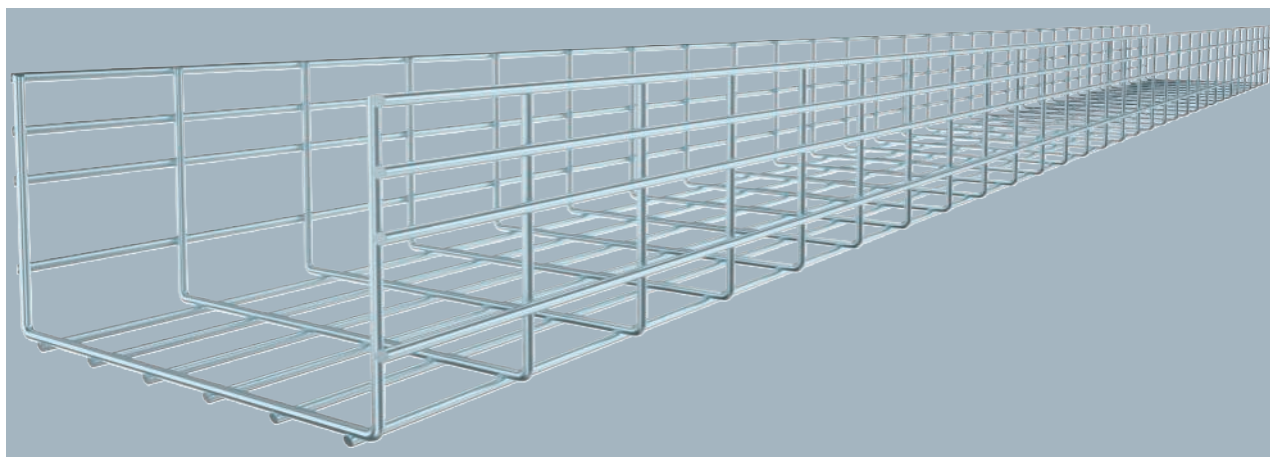
Load diagram, mesh cable tray, type SGR 105

- 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





Heavy-duty cable tray SGR 155

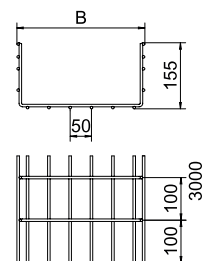


Type	Wire		Pack m	Weight kg/100 m	Item no.
	Width mm	Ø mm			
SGR 155 300 G	300	6	3	426.333	6003681
SGR 155 450 G	450	6	3	524.667	6003684
SGR 155 500 G	500	6	3	557.333	6003685
SGR 155 600 G	600	6	3	622.333	6003687

Mesh cable tray made of spot-welded steel wire of side height 155 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
The grid width is 50 x 100 mm.

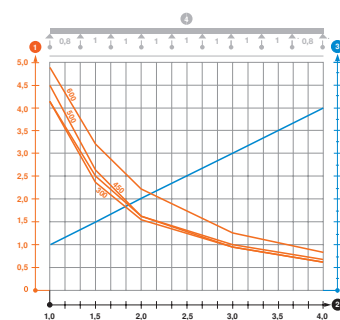
Type	Length mm	Usable Dim. cross- section	
		B mm	cm ²
SGR 155 300 G	3000	300	438
SGR 155 450 G	3000	450	663
SGR 155 500 G	3000	500	738
SGR 155 600 G	3000	600	888

Dimensions



Type	1.0 m	1.5 m	2.0 m	3.0 m	4.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
SGR 155 300 G	4.1	2.4	1.55	0.95	0.6
SGR 155 450 G	4.1	2.5	1.6	0.95	0.6
SGR 155 500 G	4.5	2.6	1.6	1	0.65
SGR 155 600 G	4.9	3.2	2.2	1.25	0.8

Load

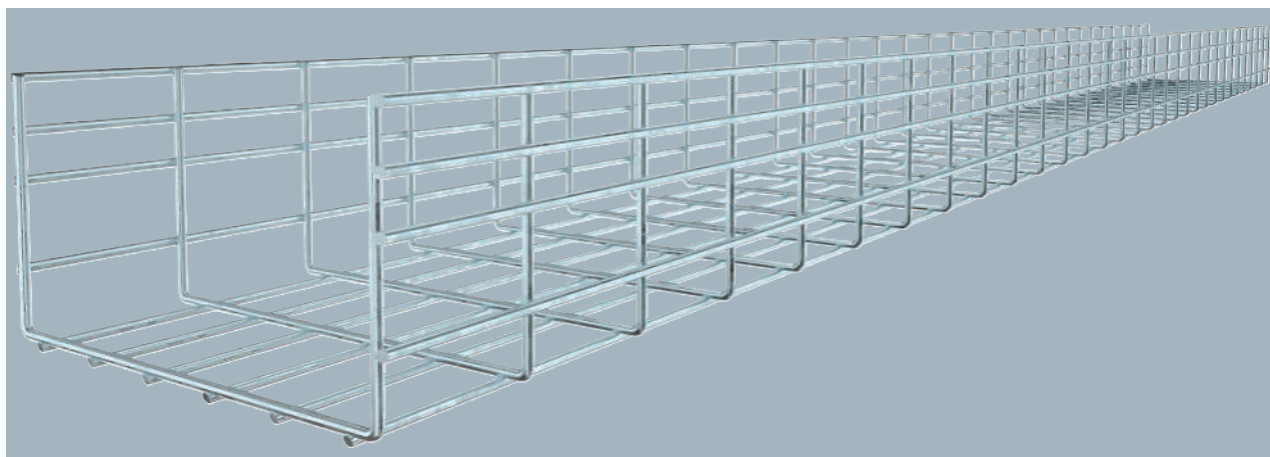


Load diagram, mesh cable tray, type SGR 155

- 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

St FT

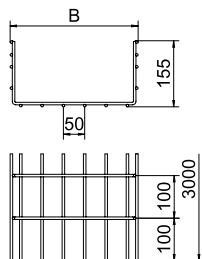
Heavy-duty cable tray SGR 155



Mesh cable tray made of spot-welded steel wire of side height 155 mm.
 Magnetic shield insulation without cover 15 dB, with cover 25 dB.
 The grid width is 50 x 100 mm.

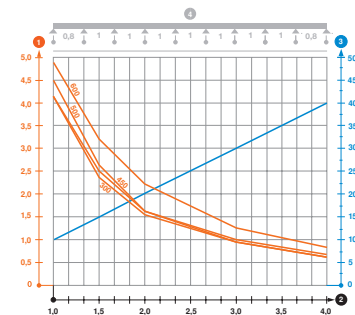
Type	Wire		Pack m	Weight kg/100 m	Item no.
	Width mm	Ø mm			
SGR 155 300 FT	300	6	3	439.667	6003692
SGR 155 450 FT	450	6	3	541.000	6003695
SGR 155 500 FT	500	6	3	574.667	6003696
SGR 155 600 FT	600	6	3	641.667	6003698

Dimensions



Type	Length mm	Dim. B mm	Usable
			Dim. cross-section cm ²
SGR 155 300 FT	3000	300	438
SGR 155 450 FT	3000	450	663
SGR 155 500 FT	3000	500	738
SGR 155 600 FT	3000	600	888

Load



	1.0 m	1.5 m	2.0 m	3.0 m	4.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
SGR 155 300 FT	4.1	2.4	1.55	0.95	0.6
SGR 155 450 FT	4.1	2.5	1.6	0.95	0.6
SGR 155 500 FT	4.5	2.6	1.6	1	0.65
SGR 155 600 FT	4.9	3.2	2.2	1.25	0.8

Load diagram, mesh cable tray, type SGR 155

- 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

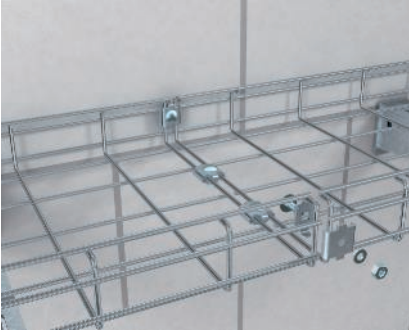


C mesh cable tray

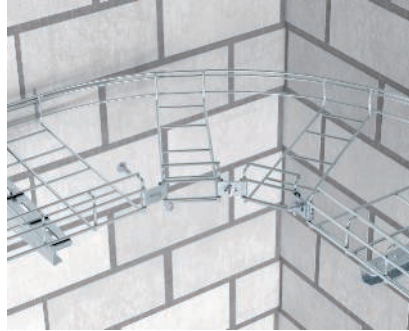
The C mesh cable tray system from OBO Bettermann fulfils the highest requirements for load capacities and versatility. The C shape allows support widths of up to three metres. This system, with its 50 mm side height, together with the optimised accessories such as hold-down clamps,

Quick connectors, barrier strips, suspension profiles, mounting brackets, etc. is an ideal addition to the overall mesh cable tray system. It is used both in industry and in all other areas of professional electrical installations.

Mounting aid



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



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

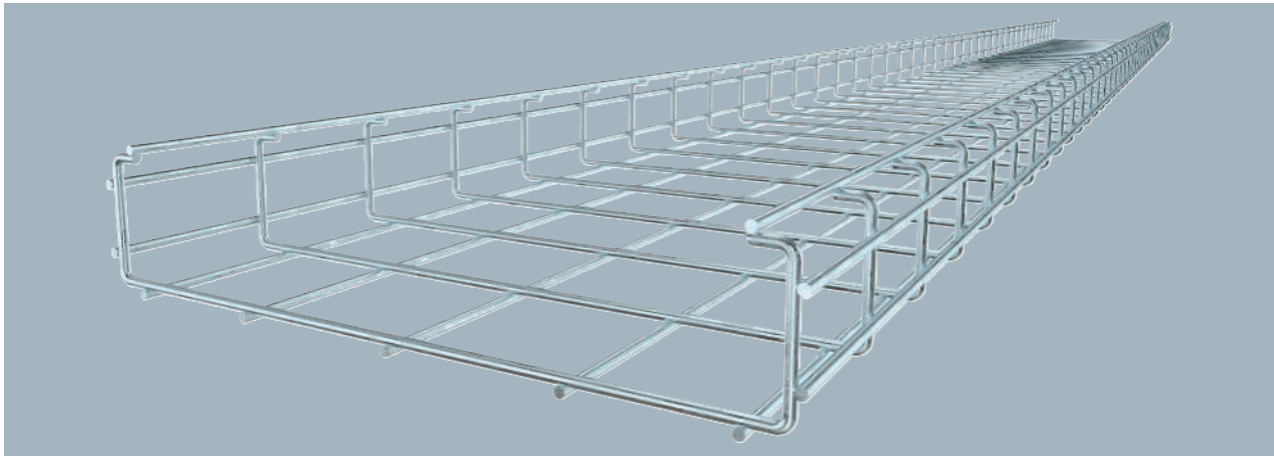


Vertical bend application
Vertical bend mounting with 90° installation profile.



C mesh cable tray CGR 50

St FT

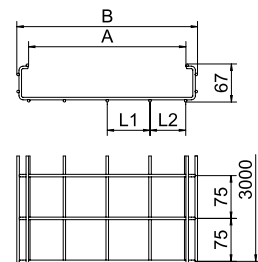


Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
CGR 50 50 FT	50	4.5	3	128.667	6017428
CGR 50 100 FT	50	4.5	3	139.100	6017436
CGR 50 200 FT	50	4.5	3	177.134	6017444
CGR 50 300 FT	50	4.5	3	204.334	6017452
CGR 50 400 FT	50	4.5	3	232.334	6017460

C-shaped mesh cable tray made of spot-welded steel wire of side height 50 mm.
Magnetic shield insulation 15 dB.

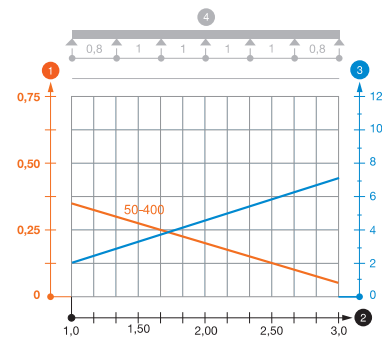
Type	Length mm	Dim. A mm	Dim. B mm	Usable cross-section cm ²
CGR 50 50 FT	3000	26	67	13
CGR 50 100 FT	3000	76	117	34
CGR 50 200 FT	3000	176	217	75
CGR 50 300 FT	3000	276	317	116
CGR 50 400 FT	3000	376	417	157

Dimensions



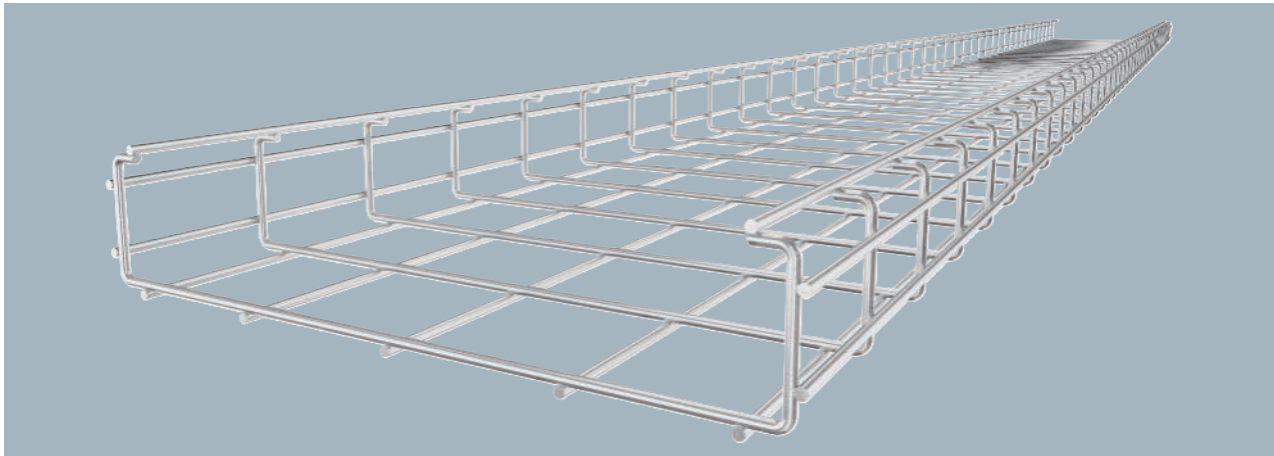
	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
CGR 50 50 FT	0.95	0.6	0.35
CGR 50 100 FT	0.95	0.6	0.35
CGR 50 200 FT	1.1	0.7	0.4
CGR 50 300 FT	1.1	0.7	0.4
CGR 50 400 FT	1.1	0.7	0.4

Load



Load diagram, C mesh cable tray, type CGR 50

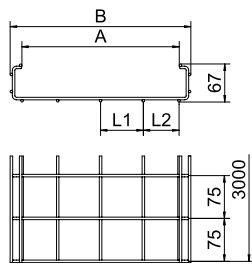
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



C-shaped mesh cable tray made of spot-welded steel wire of side height 50 mm.
Magnetic shield insulation 15 dB.

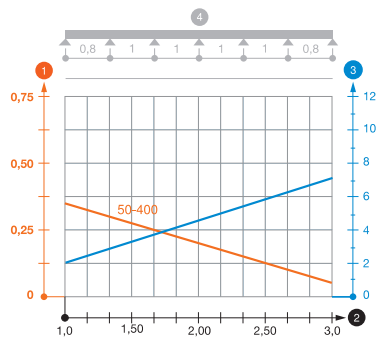
Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
CGR 50 50 A2	50	4.5	3	124.667	6016200
CGR 50 100 A2	50	4.5	3	133.000	6016235
CGR 50 200 A2	50	4.5	3	173.200	6016251
CGR 50 300 A2	50	4.5	3	195.333	6016253
CGR 50 400 A2	50	4.5	3	222.334	6016255

Dimensions



Type	Length mm	Dim. A mm	Dim. B mm	Usable cross-section cm ²
CGR 50 50 A2	3000	26	67	13
CGR 50 100 A2	3000	76	117	33
CGR 50 200 A2	3000	176	217	74
CGR 50 300 A2	3000	276	317	116
CGR 50 400 A2	3000	376	417	157

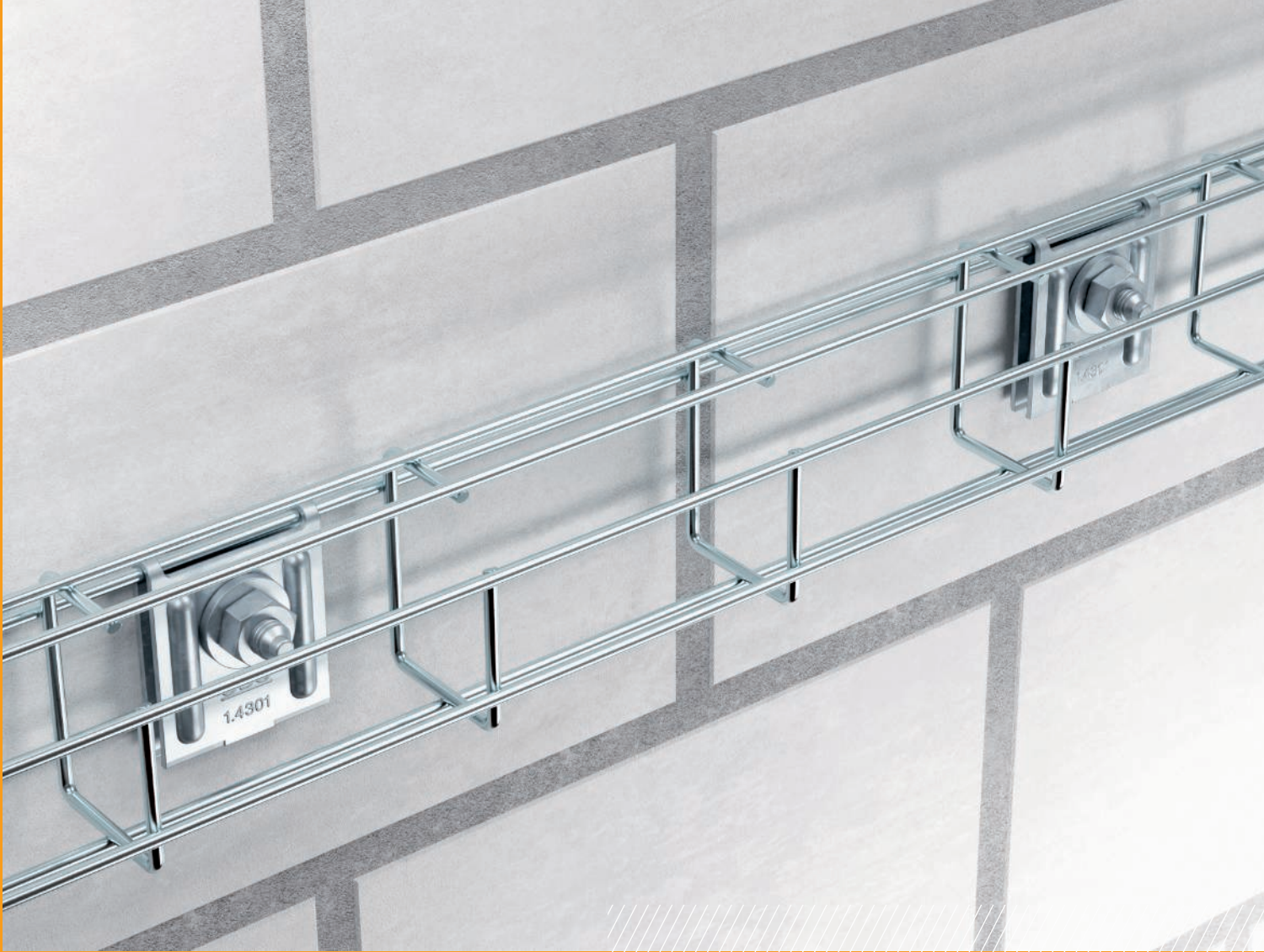
Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
CGR 50 50 A2	0.95	0.6	0.35
CGR 50 100 A2	0.95	0.6	0.35
CGR 50 200 A2	1.1	0.7	0.4
CGR 50 300 A2	1.1	0.7	0.4
CGR 50 400 A2	1.1	0.7	0.4

Load diagram, C mesh cable tray CGR 50 VA

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

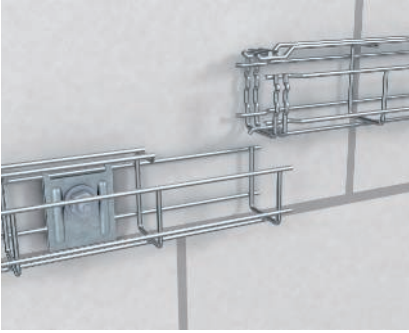


Magic G mesh cable tray

The Magic G mesh cable tray is the ideal extension of the Magic solutions for the OBO Bettermann mesh cable tray systems. The quick Magic connection means that a screwless and easy-to-mount variant is now offered for the G mesh cable

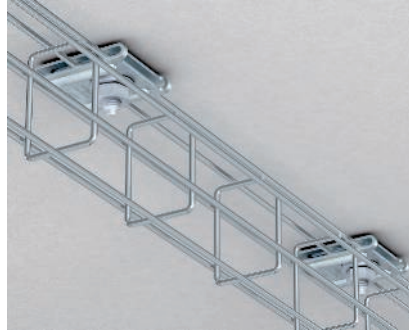
tray system as well. Even in false ceiling mounting, it is an ideal alternative through direct wall or ceiling mounting. The Magic G mesh cable tray is available in four sizes and three surfaces, thus offering ideal solutions for all kinds of tasks.

Mounting aid



Straight connection of Magic G mesh cable tray

Creation of a screwless straight connection of the G mesh cable tray, type G GRM, by interconnecting two stock lengths.



Direct ceiling mounting

Direct ceiling mounting of the Magic G mesh cable tray using the hold-down clamp, type K 12 1818.



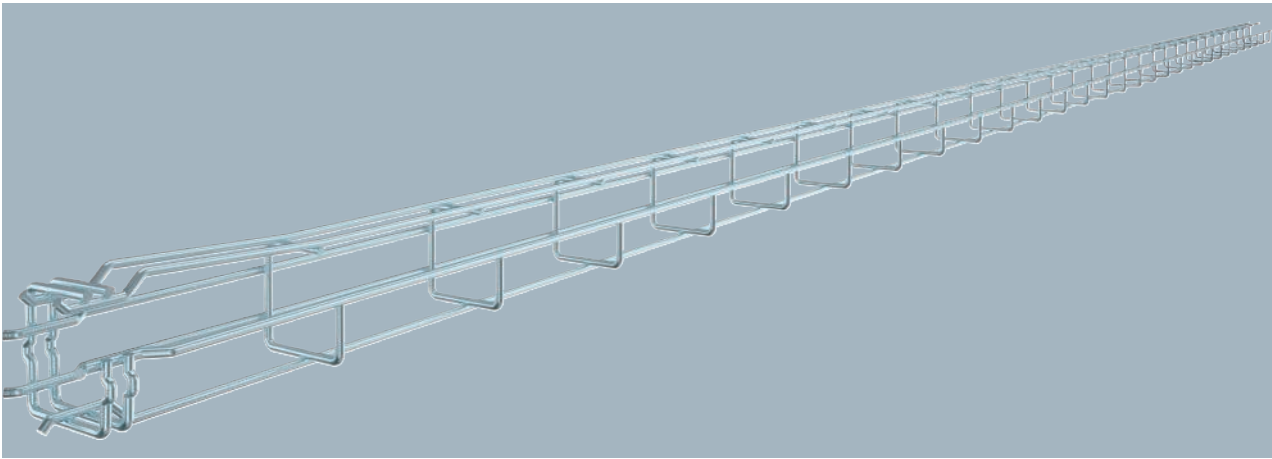
Wall mounting of G mesh cable trays

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



G mesh cable tray Magic® 50

St G



Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 50 50 G	50	3.9	3	67.067	6005535

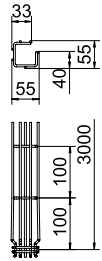
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.

Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 50 50 G	3000	55	55	33	38

Dimensions

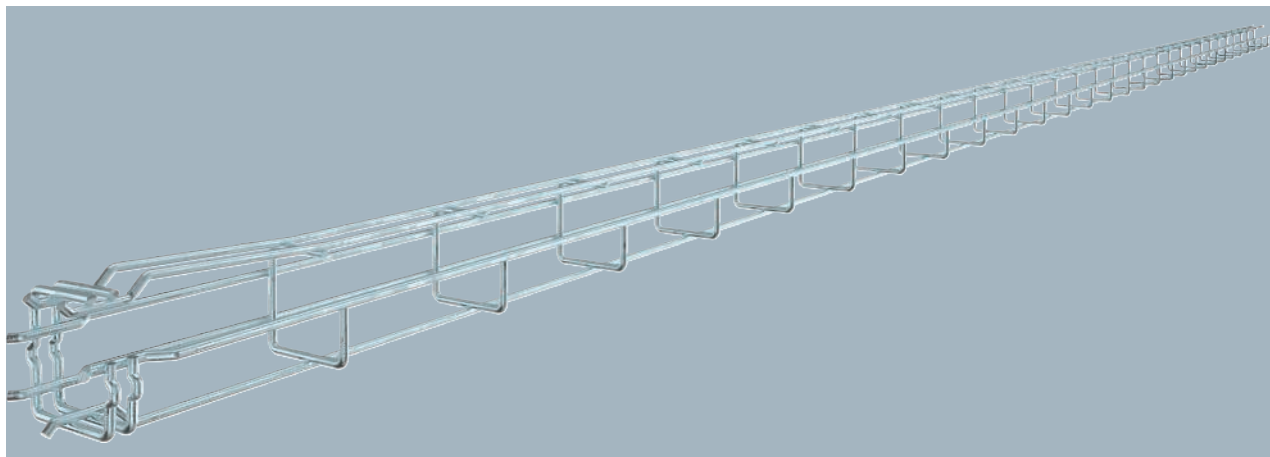


G-GRM 50/50	Support spacing [m]	Load [kN/m]		
		1	2	2.5
Fastening variant				
Wall fastening K12 1818	0.2	0.15	0.1	0.05
Ceiling fastening K12 1818	0.25	0.2	0.10	0.05

Load

St FT

G mesh cable tray Magic® 50

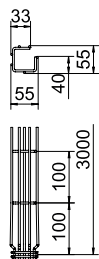


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 50 50 FT	50	3.9	3	68.567	6005520

Dimensions



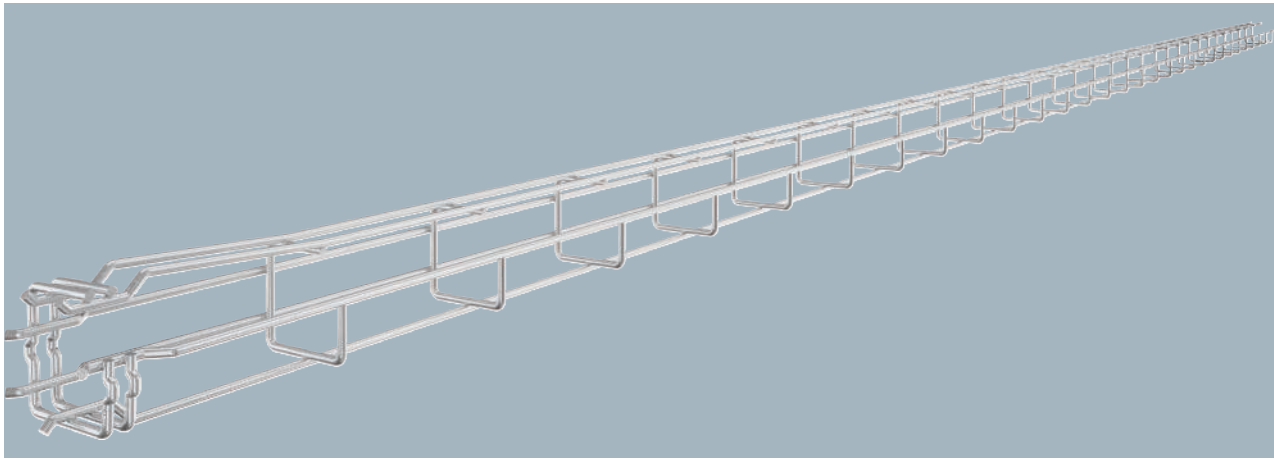
Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 50 50 FT	3000	55	55	33	38

Load

Fastening variant	Support spacing [m]			
	Load [kN/m]			
	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® 50

A2 2B



Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 50 50 A2	50	3.9	3	66.567	6005550

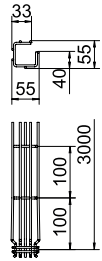
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.

Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 50 50 A2	3000	55	55	33	38

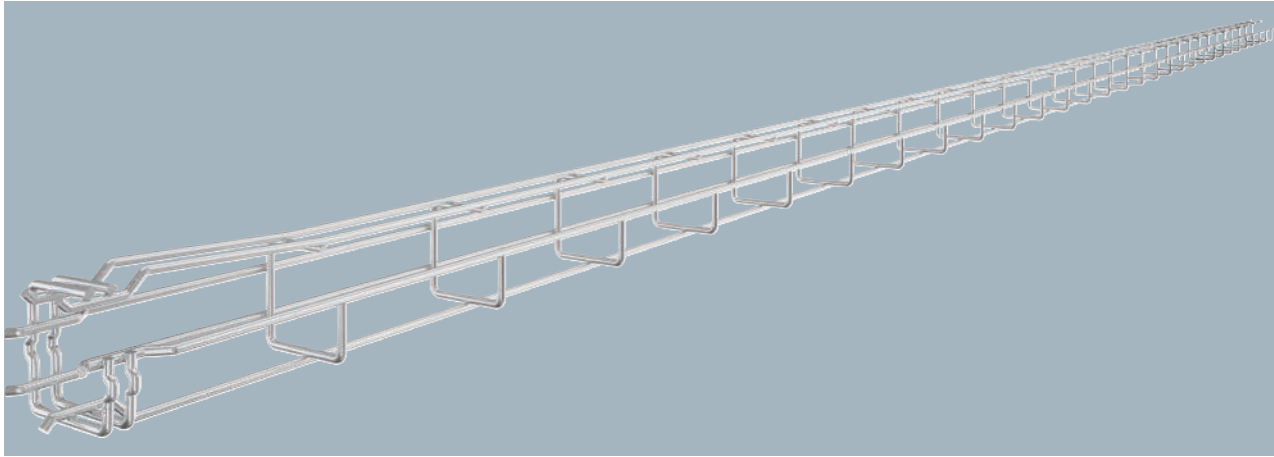
Dimensions



G-GRM 50/50	Support spacing [m]	Load [kN/m]		
		1	2	2.5
Fastening variant				
Wall fastening K12 1818	0.2	0.15	0.1	0.05
Ceiling fastening K12 1818	0.25	0.2	0.10	0.05

Load

G mesh cable tray Magic® 50

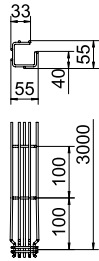


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 50 50 A4	50	3.9	3	66.333	6005565

Dimensions



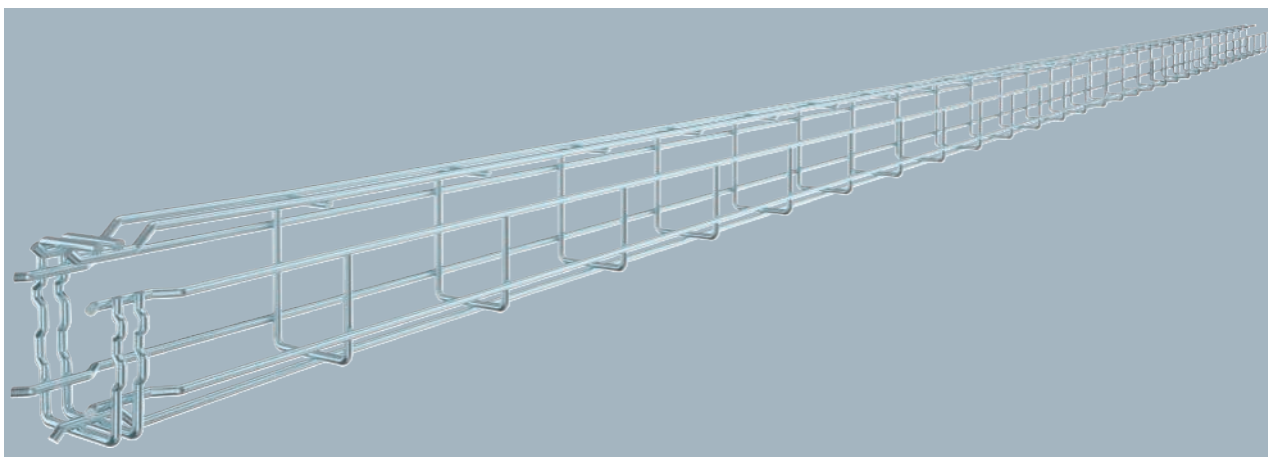
Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 50 50 A4	3000	55	55	33	38

Load

Fastening variant	Support spacing [m]			
	Load [kN/m]			
Wall fastening K12 1818	1	1.5	2	2.5
Ceiling fastening K12 1818	0.2	0.15	0.1	0.05
	0.25	0.2	0.10	0.05

G mesh cable tray Magic® 75

St G



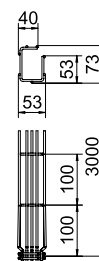
Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 75 50 G	75	3.9	3	79.867	6005538

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.

Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 75 50 G	3000	53	73	38	53

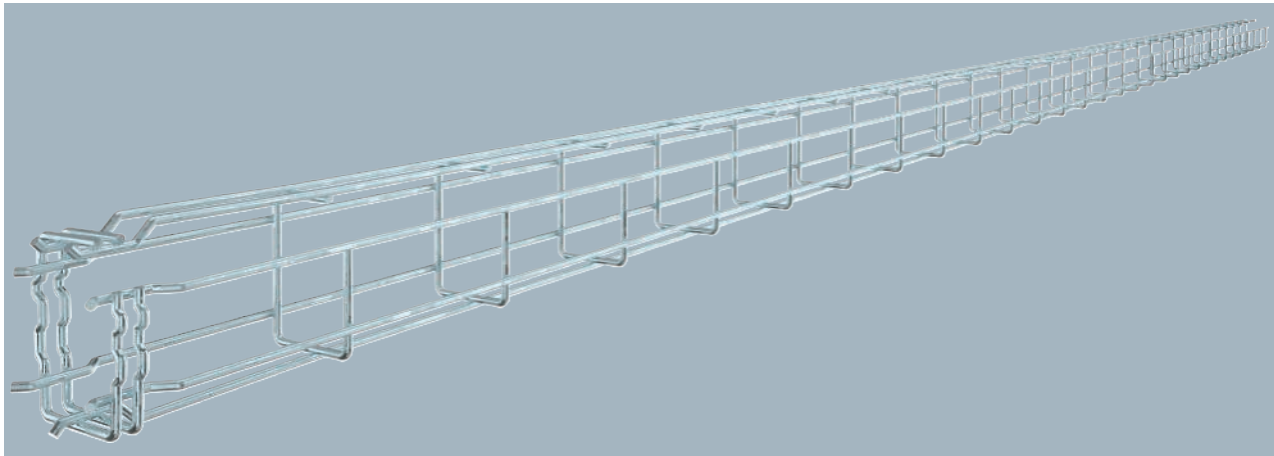
Dimensions



G-GRM 75/50	Support spacing [m]	Load [kN/m]		
		1	2	2.5
Fastening variant				
Wall fastening K12 1818	0.3	0.2	0.15	0.1
Ceiling fastening K12 1818	0.35	0.2	0.15	0.1

Load

G mesh cable tray Magic® 75

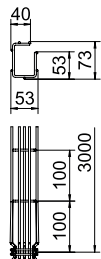


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 75 50 FT	75	3.9	3	83.700	6005523

Dimensions



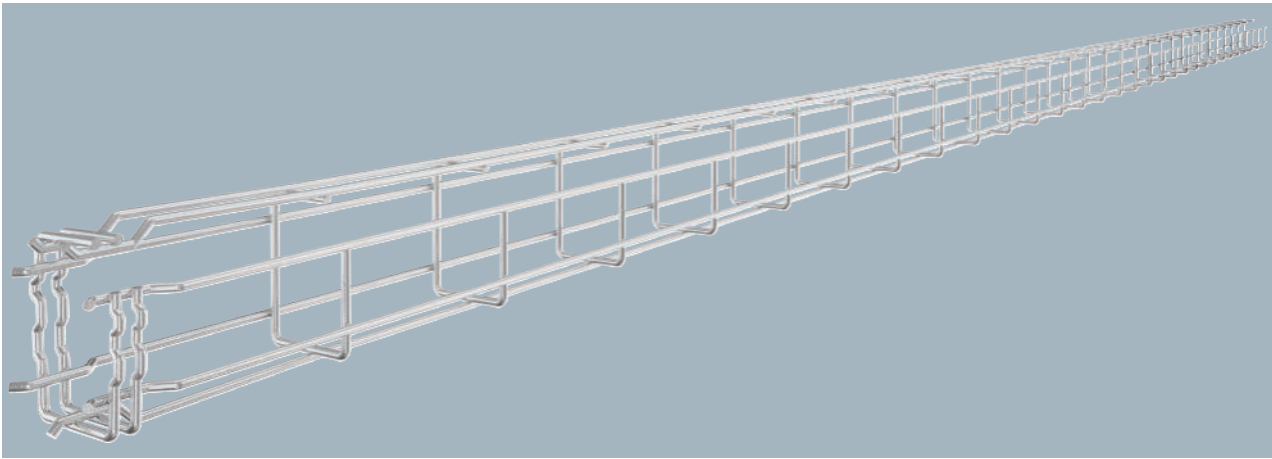
Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 75 50 FT	3000	53	73	38	53

Load

Fastening variant	Load [kN/m]	Support spacing [m]		
		1	2	2.5
Wall fastening K12 1818	0.3	0.2	0.15	0.1
Ceiling fastening K12 1818	0.35	0.2	0.15	0.1

G mesh cable tray Magic® 75

A2 2B



Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 75 50 A2	75	3.9	3	79.467	6005553

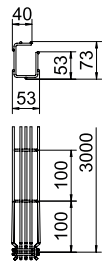
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.

Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 75 50 A2	3000	53	73	38	53

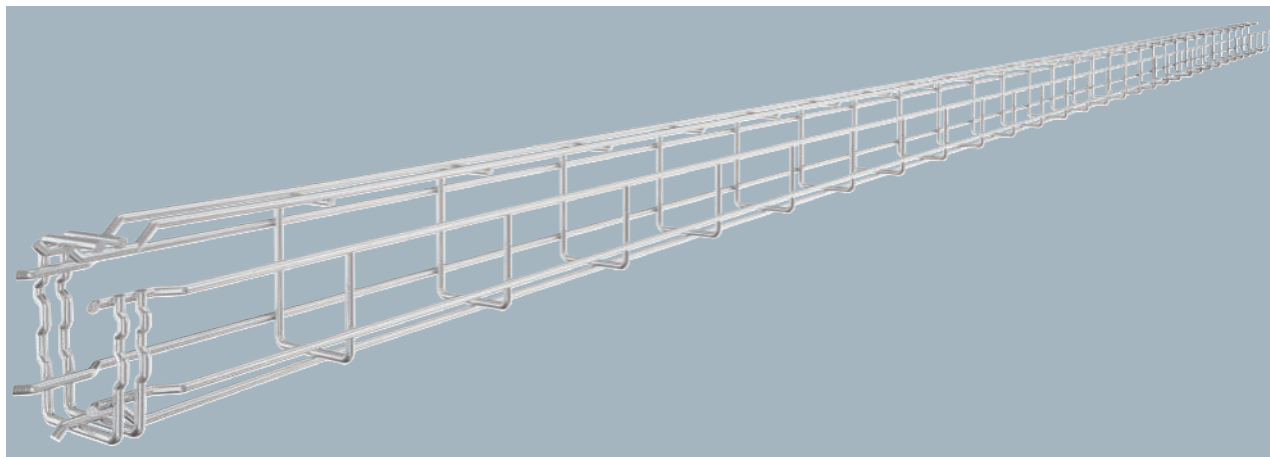
Dimensions



G-GRM 75/50	Support spacing [m]	Load [kN/m]		
		1	2	2.5
Fastening variant	1	1.5	2	2.5
Bracket MWAG 12-11	-	-	-	-
Wall fastening K12 1818	0.3	0.2	0.15	0.1
Ceiling fastening K12 1818	0.35	0.2	0.15	0.1

Load

G mesh cable tray Magic® 75

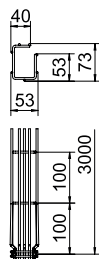


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 75 50 A4	75	3.9	3	79.467	6005568

Dimensions



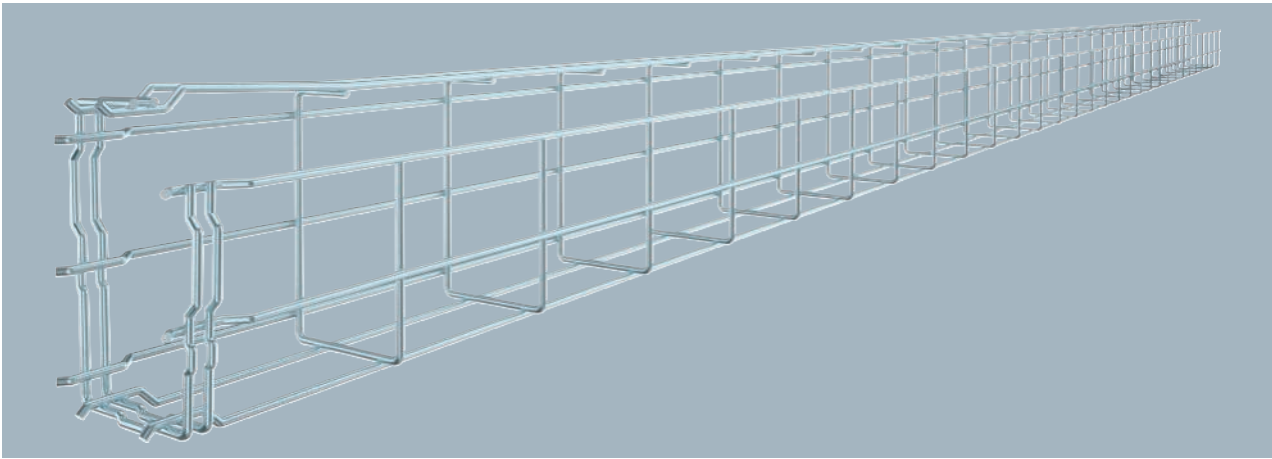
Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 75 50 A4	3000	53	73	38	53

Load

Fastening variant	Support spacing [m]			
	Load [kN/m]			
Bracket MWAG 12-11	1	1.5	2	2.5
Wall fastening K12 1818	0.3	0.2	0.15	0.1
Ceiling fastening K12 1818	0.35	0.2	0.15	0.1

G mesh cable tray Magic® 125

St G



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

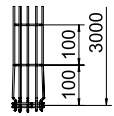
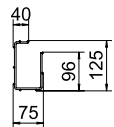
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.

Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

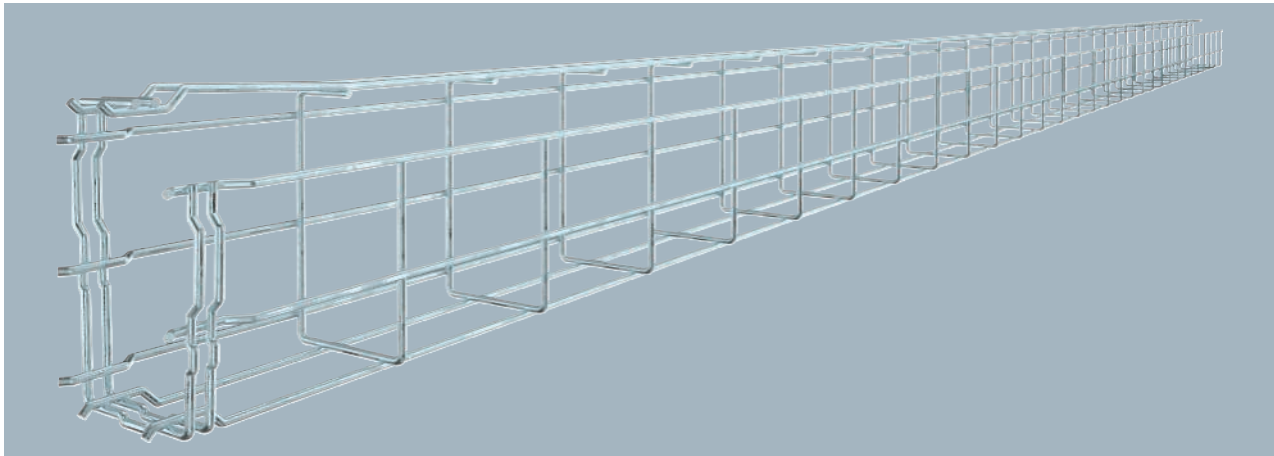
Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 125 75 G	3000	75	125	38	96

Dimensions



G-GRM 125/75	Support spacing [m]	Load [kN/m]		
		1.5	2	2.5
Fastening variant	1			
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

Load

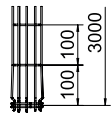
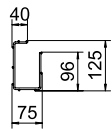


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 125 75 FT	125	3.9	3	113.667	6005526

Dimensions

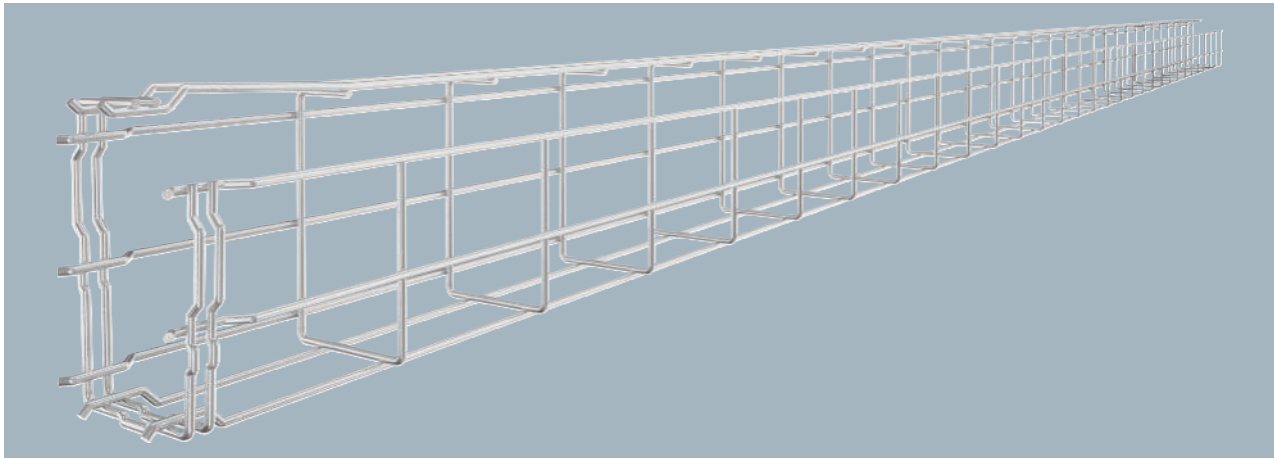


Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 125 75 FT	3000	75	125	38	96

Load

Fastening variant	G-GRM 125/75			
	Support spacing [m]	Load [kN/m]		
Bracket MWAG 12-11	1	1.5	2	2.5
Wall fastening K12 1818	0.6	0.35	0.3	0.2
Ceiling fastening K12 1818	0.25	0.25	0.2	0.15
	0.3	0.25	0.2	0.15

G mesh cable tray Magic® 125



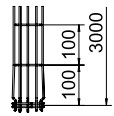
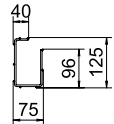
Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 125 75 A2	125	3.9	3	108.000	6005556

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.

Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 125 75 A2	3000	75	125	38	96

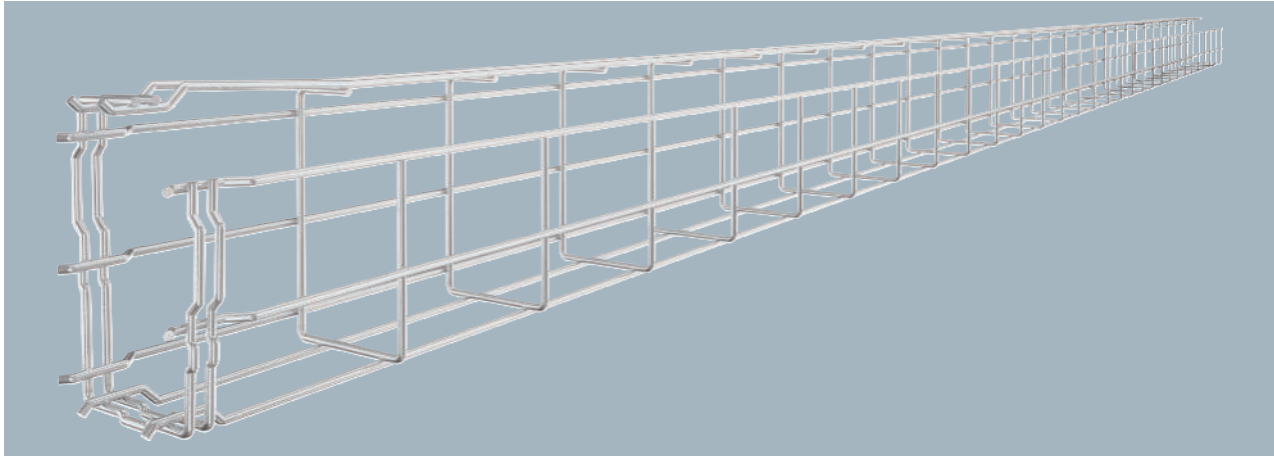
Dimensions



G-GRM 125/75	Support spacing [m]	Load [kN/m]		
		1.5	2	2.5
Fastening variant	1			
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

Load

G mesh cable tray Magic® 125

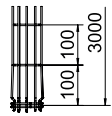
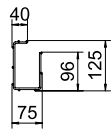


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 125 75 A4	125	3.9	3	108.000	6005571

Dimensions



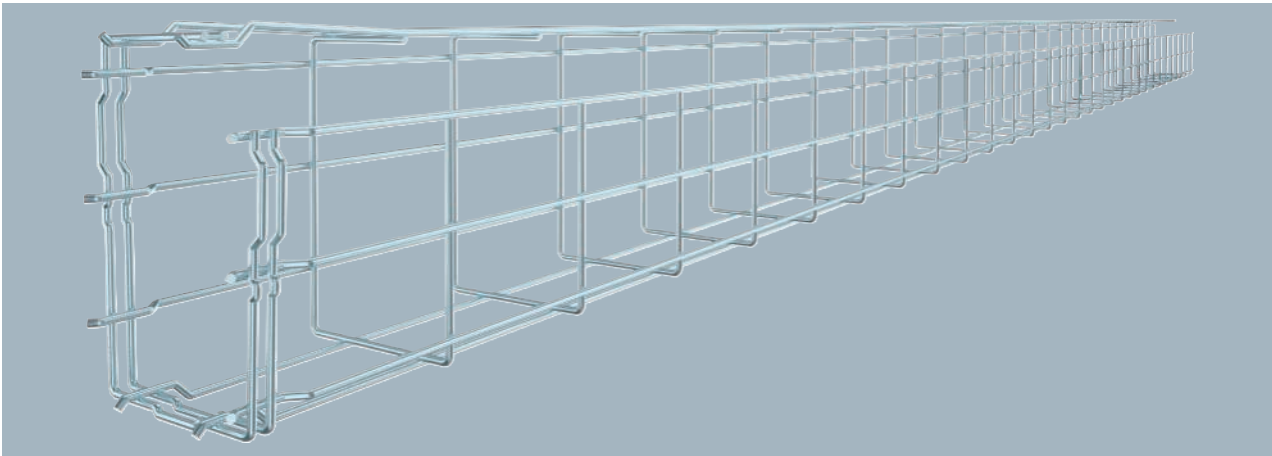
Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 125 75 A4	3000	75	125	38	96

Load

Fastening variant	G-GRM 125/75			
	Support spacing [m]	Load [kN/m]		
Bracket MWAG 12-11	1	1.5	2	2.5
Wall fastening K12 1818	0.6	0.35	0.3	0.2
Ceiling fastening K12 1818	0.25	0.25	0.2	0.15
	0.3	0.25	0.2	0.15

G mesh cable tray Magic® 150

St G

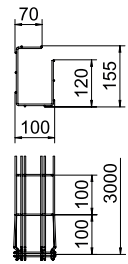


Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 150 100 G	150	3.9	3	127.333	6005544

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.

Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 150 100 G	3000	100	155	68	120

Dimensions



G-GRM 150/100	Support spacing [m]	Load [kN/m]		
		1.5	2	2.5
Fastening variant	1	0.5	0.35	0.3
Bracket MWAG 12-11	0.6	0.2	0.15	0.1
Wall fastening K12 1818	0.25	0.25	0.15	0.1
Ceiling fastening K12 1818	0.25			

Load

St FT

G mesh cable tray Magic® 150

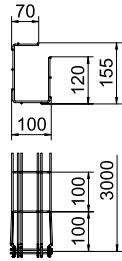


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 150 100 FT	150	3.9	3	134.033	6005529

Dimensions

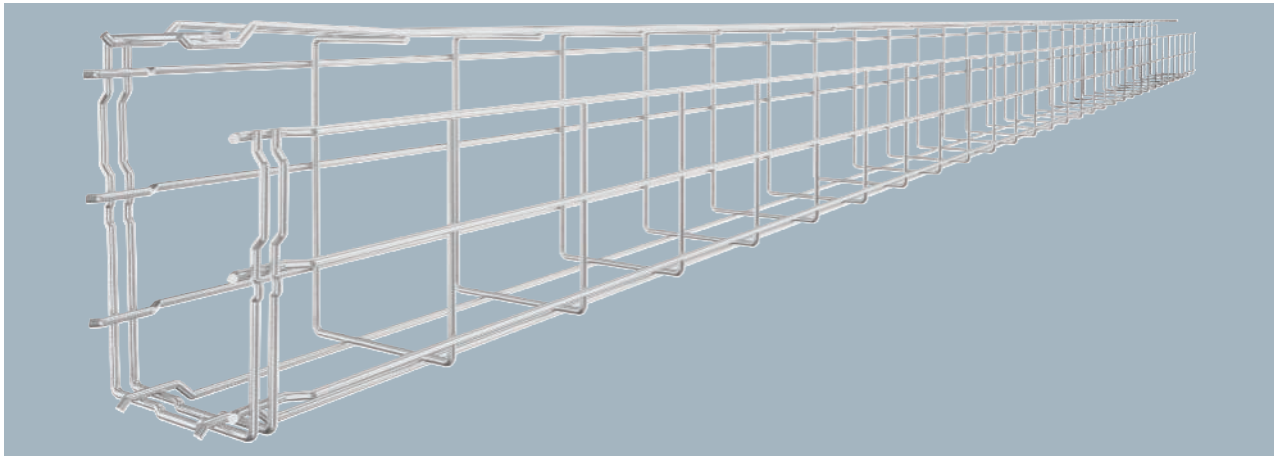


Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 150 100 FT	3000	100	155	68	120

Load

Fastening variant	Support spacing [m]			
	Load [kN/m]			
Bracket MWAG 12-11	1	1.5	2	2.5
Wall fastening K12 1818	0.6	0.5	0.35	0.3
Ceiling fastening K12 1818	0.25	0.2	0.15	0.1

G mesh cable tray Magic® 150



Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 150 100 A2	150	3.9	3	127.067	6005559

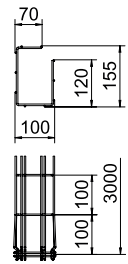
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.

Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 150 100 A2	3000	100	155	68	120

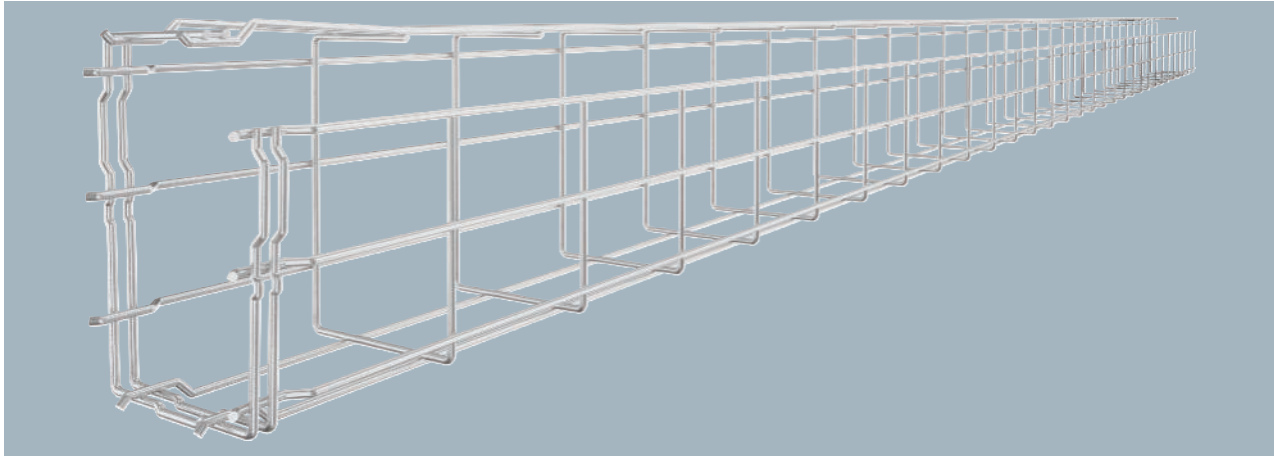
Dimensions



G-GRM 150/100	Support spacing [m]	Load [kN/m]		
		1	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

Load

G mesh cable tray Magic® 150

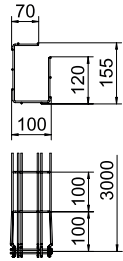


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 150 100 A4	150	3.9	3	127.260	6005574

Dimensions



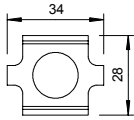
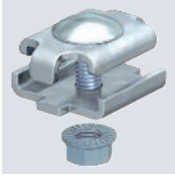
Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 150 100 A4	3000	100	155	68	120

Load

Fastening variant	G-GRM 150/100			
	Support spacing [m]			
	Load [kN/m]			
Bracket MWAG 12-11	1	1.5	2	2.5
Wall fastening K12 1818	0.6	0.5	0.35	0.3
Ceiling fastening K12 1818	0.25	0.2	0.15	0.1

Joint connector GSV 34

St G

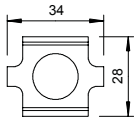


Type	Pack Piece	Weight kg/100 pc.	Item no.
GSV 34 G	20	3.155	6016596

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
 Including FRS M6 x 20 bolt with flange nut.

Joint connector GSV 34

St FT

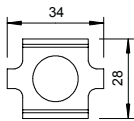


Type	Pack Piece	Weight kg/100 pc.	Item no.
GSV 34 FT	20	3.150	6016634

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
 Including FRS M6 x 20 bolt with flange nut.

Joint connector GSV 34

A2 VA 2B

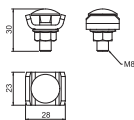


Type	Pack Piece	Weight kg/100 pc.	Item no.
GSV 34 A2	20	2.572	6016642
GSV 34 A4	20	3.000	6016648

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
 Including screw of type FRS M6 x 20.

GUV 6 joint connector

St FT



Type	Pack Piece	Weight kg/100 pc.	Item no.
GUV 6 FT	20	4.226	6016573

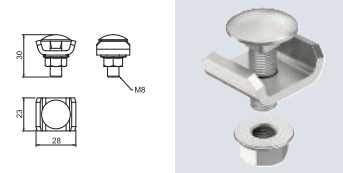
Joint connector for mesh cable tray, type SGR.
 Figure: Positioning and quantity of mesh cable tray connectors.
 50–150 mm = 2 units
 200–300 mm = 3 units
 400–450 mm = 4 units
 500–600 mm = 5 units
 Including FRS M8 x 25 bolt with flange nut.

A2 2B

GUV 6 joint connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
GUV 6 A2	20	4.154	6016574

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
 Including FRS M8 x 20 bolt with flange nut.

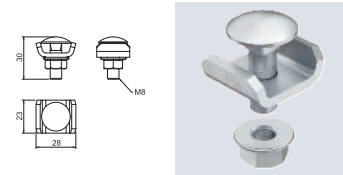


St G

GUV 6 joint connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
GUV 6 G	20	3.945	6016572

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

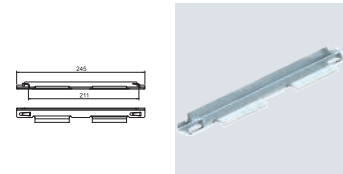


St FS DD

GRV 245 mesh cable tray connector, long

Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
GRV 245 FS	30	20	13.500	6016680
GRV 245 DD	30	20	13.500	6016684

Long mesh cable tray connectors for screwless straight connection of mesh cable trays.
 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.

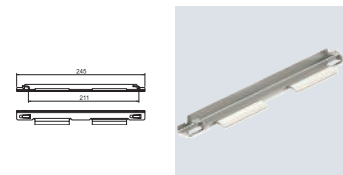


VA 2B

GRV 245 mesh cable tray connector, long

Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
GRV 245 A4	30	20	13.500	6016688

Long mesh cable tray connectors for screwless straight connection of mesh cable trays.
 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.

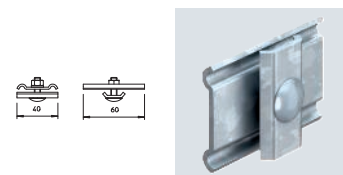


St FT

K 11/262 side connector

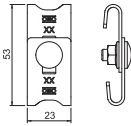
Type	Pack Piece	Weight kg/100 pc.	Item no.
K 11 262 FT	25	7.500	6015107

Screwed version of joint connector for mesh cable trays.
 Including screw of type FRS M6 x 20.



GEV 36 corner connector

St G

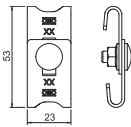


Type	Pack Piece	Weight kg/100 pc.	Item no.
GEV 36 G	20	3.040	6016715

Including FRS M6 x 12 bolt with flange nut.
Corner connector for the creation of mesh cable tray bend elements.

GEV 36 corner connector

St FT

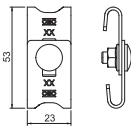


Type	Pack Piece	Weight kg/100 pc.	Item no.
GEV 36 FT	20	3.160	6016723

Including FRS M6 x 12 bolt with flange nut.
Corner connector for the creation of mesh cable tray bend elements.

GEV 36 corner connector

A2 VA 2B

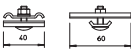


Type	Pack Piece	Weight kg/100 pc.	Item no.
GEV 36 A2	20	3.040	6016731
GEV 36 A4	10	3.040	6016764

Including FRS M6 x 12 bolt with flange nut.
Corner connector for the creation of mesh cable tray bend elements.

Side connector K 11/262

A2 2B

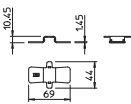
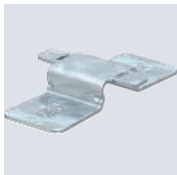


Type	Pack Piece	Weight kg/100 pc.	Item no.
K 11 262 A2	25	7.500	6016367

Screwed version of joint connector for mesh cable trays.
Including screw of type FRS M6 x 20.

GRS quick connector

St DD



Type	Pack Piece	Weight kg/100 pc.	Item no.
GRS 3.9 DD	50	2.500	6016545
GRS 4.8 DD	50	2.500	6016561

Quick connector for screwless straight connection of mesh cable trays without special tools, for mesh cable trays up to a width of 150 mm.

Figure: Positioning and quantity of mesh cable tray connectors.
50–150 mm = 2 units

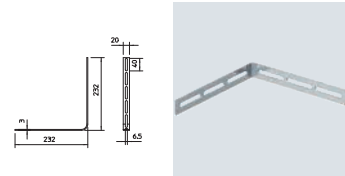
When selecting the connector, please take the appropriate wire thickness of the mesh cable tray into account.



Slotted steel strap, bent

Type	Dimension mm	Pack Piece	Weight kg/100 pc.	Item no.
OSG 20X3 FT	20x3	25	15.800	6017371

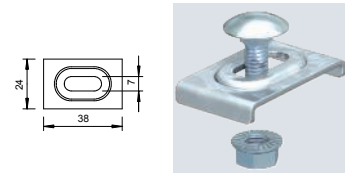
Bent slotted steel strap for creation of bends and tees.



GKT 38 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 G	20	2.123	6017037

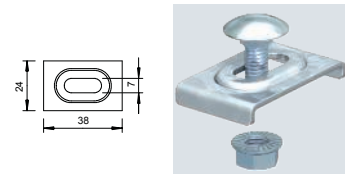
Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



GKT 38 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 FT	20	2.123	6017061

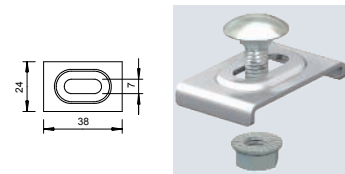
Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



GKT 38 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 A2	20	2.107	6017045
GKT 38 A4	10	2.200	6017092

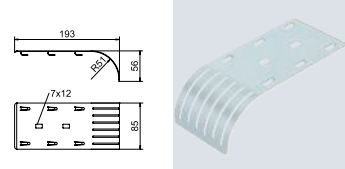
Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



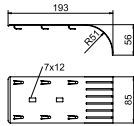
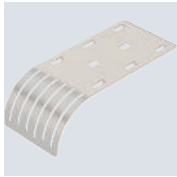
Drop-out plate

Type	Pack Piece	Weight kg/100 pc.	Item no.
KAB GR FS	10	14.100	6220139
KAB GR FT	10	14.100	6220142

The exit 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.



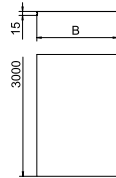
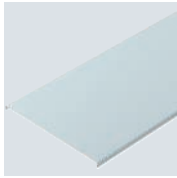
Drop-out plate



Type	Pack Piece	Weight kg/100 pc.	Item no.
KAB GR A2	10	14.100	6220145

The exit 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.

Cover for mesh cable tray, latchable

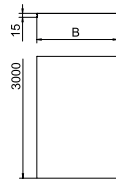
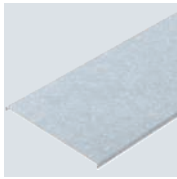


Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DGRR 50 FS	50	0.75	3000	3	46.333	6001840
DGRR 100 FS	98	0.75	3000	3	73.333	6001842
DGRR 150 FS	148	0.75	3000	3	102.667	6001844
DGRR 200 FS	198	0.75	3000	3	132.333	6001846
DGRR 300 FS	298	0.75	3000	3	191.000	6001848
DGRR 400 FS	398	0.75	3000	3	250.000	6001850
DGRR 500 FS	498	0.75	3000	3	309.000	6001852
DGRR 600 FS	598	0.75	3000	3	370.000	6001854

With transverse bead from 400 mm width.

Latchable cover for mesh cable trays. Protects cables from damage, contamination and moisture from above. Suitable for interior areas without particular requirements.

Cover for mesh cable tray, latchable



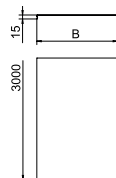
Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DGRR 50 FT	50	0.75	3000	3	52.333	6001820
DGRR 100 FT	98	0.75	3000	3	83.000	6001822
DGRR 150 FT	148	0.75	3000	3	116.333	6001824
DGRR 200 FT	198	0.75	3000	3	149.667	6001826
DGRR 300 FT	298	0.75	3000	3	216.333	6001828
DGRR 400 FT	398	0.75	3000	3	282.667	6001830
DGRR 500 FT	498	0.75	3000	3	349.667	6001832
DGRR 600 FT	598	0.75	3000	3	418.000	6001834

With transverse bead from 400 mm width.

Latchable cover for mesh cable trays. Protects cables from damage, contamination and moisture from above. Suitable for industrial areas such as mechanical engineering.

When using covers outdoors, additional measures against the influence of wind may need to be taken.

Cover for mesh cable tray, latchable



Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DGRR 50 A2	50	0.80	3000	3	47.333	6001860
DGRR 100 A2	97	0.80	3000	3	78.333	6001862
DGRR 150 A2	148	0.80	3000	3	109.667	6001864
DGRR 200 A2	198	0.80	3000	3	141.000	6001866
DGRR 300 A2	298	0.80	3000	3	203.667	6001868
DGRR 400 A2	398	0.80	3000	3	266.333	6001870
DGRR 500 A2	498	0.80	3000	3	329.333	6001872
DGRR 600 A2	598	0.80	3000	3	393.333	6001874

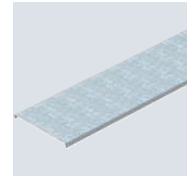
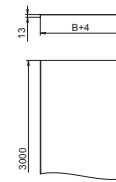
With transverse bead from 400 mm width.

Latchable cover for mesh cable trays. Protects cables from damage, contamination and moisture from above. Suitable for the foodstuffs or chemicals industries.

When using covers outdoors, additional measures against the influence of wind may need to be taken.

St FS DD

Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRLU 050 FS	50	1.00	3000	3	59.767	6052056
DRLU 100 FS	100	1.00	3000	3	99.000	6052103
DRLU 150 FS	150	1.00	3000	3	138.267	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	334.500	6052405
DRLU 500 FS	500	1.50	3000	3	619.234	6052512
DRLU 550 FS	550	1.50	3000	3	678.100	6052571
DRLU 600 FS	600	1.50	3000	3	737.000	6052609
DRLU 050 DD	50	1.00	3000	3	59.770	6052640
DRLU 100 DD	100	1.00	3000	3	99.000	6052643
DRLU 150 DD	150	1.00	3000	3	138.267	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	1.50	3000	3	619.234	6052668
DRLU 550 DD	550	1.50	3000	3	678.100	6052671
DRLU 600 DD	600	1.50	3000	3	737.000	6052674



Unperforated cover

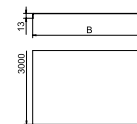
Cover for cable trays and mesh cable trays.

When using covers outdoors, additional measures against the influence of wind must be taken.

Transverse bead from 500 mm width.

A2 A4 2B

Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRLU 050 A2	50	1.00	3000	3	59.767	6052821
DRLU 100 A2	100	1.00	3000	3	99.000	6052824
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	1.50	3000	3	619.167	6052841
DRLU 600 A2	600	1.50	3000	3	736.900	6052844
DRLU 100 A4	100	1.00	3000	3	99.000	6052991
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	619.167	6052996
DRLU 600 A4	600	1.25	3000	3	736.900	6052998



Unperforated cover

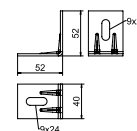
Cover for cable trays and mesh cable trays.

When using covers outdoors, additional measures against the influence of wind must be taken.

Transverse bead from 500 mm width.

St FS FT

Type	Pack Piece	Weight kg/100 pc.	Item no.
K 6 101 FS	40	7.000	6343090
K 6 101 FT	40	7.000	6343104



Ceiling bracket K6

Ceiling bracket for universal fixing to ceiling and wall, or on suspension profile, type AP 45.

Securing hook for G-GRM

VA 2B



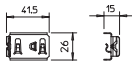
Type	Pack Piece	Weight kg/100 pc.	Item no.
G-GRM-SH 4401	50	0.740	6005650

For protection against bending in case of fire; usable in the types G-GRM 125 75 and G-GRM 150 100.

Hold-down clamps

Hold-down clamp for separating retainer fastening in GRM

VA 2B

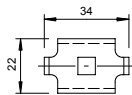


Type	Pack Piece	Weight kg/100 pc.	Item no.
KS GR A2	30	0.830	6062282

Hold-down clamp for fastening separating retainer in mesh cable trays.

GKS 34 hold-down clamp

St G

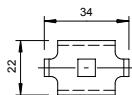


Type	Pack Piece	Weight kg/100 pc.	Item no.
GKS 34 G	20	2.188	6016855

Including FRS M6 x 20 bolt with flange nut.
Clamp for fixing mesh cable trays to wall or support brackets.

GKS 34 hold-down clamp

St FT

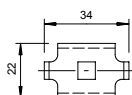


Type	Pack Piece	Weight kg/100 pc.	Item no.
GKS 34 FT	20	2.021	6016820
GKS 34 FT SP	25	2.000	6016858

Including FRS M6 x 20 bolt with flange nut.
Hold-down clamp for fixing mesh cable trays to wall or support brackets.

GKS 34 hold-down clamp

A2 VA 2B



Type	Pack Piece	Weight kg/100 pc.	Item no.
GKS 34 A2	20	2.000	6016839
GKS 34 A4	10	1.976	6016859

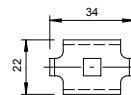
Including FRS M6 x 20 bolt with nut and washer.
Hold-down clamp for fixing mesh cable trays to wall or support brackets.

St FS

Hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKS 34 FS SP	25	2.000	6016857

Including FRS M6 x 20 bolt with nut-and-washer assembly.
Clamp for fixing mesh cable trays to wall or support brackets.

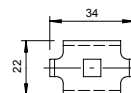


St

Clamping piece FTK, light grey

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
GKS 34 FTK LGR	Light grey	100	2.200	6479367

The surface of the clamping piece is hot-dip galvanised and is also plastic-coated in the RAL shade 7032. Including FRS M6 x 20 bolt with flange nut.
Hold-down clamp for fixing mesh cable trays to wall or support brackets.

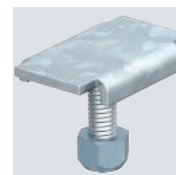
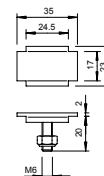


St FT

KS 23/35 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
KS 23 35 FT	100	2.015	6015174

Including M6 locknut.
Clamp for mounting bracket, type MW 45 and MW 90.

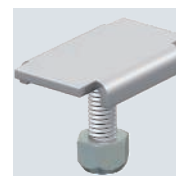
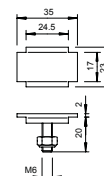


A2 2B

KS 23/35 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
KS 23 35 A2	20	2.015	6016529

Including M6 locknut.
Clamp for mounting bracket, type MW 45 and MW 90.

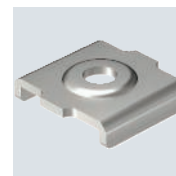
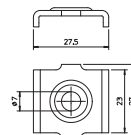


St G

GKB 34 hold-down clamp

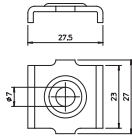
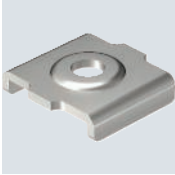
Type	Pack Piece	Weight kg/100 pc.	Item no.
GKB 34 G	20	1.105	6016674

Clamp for fastening mesh cable trays of width 50 mm to the floor.



GKB 34 hold-down clamp

A2 2B

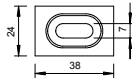
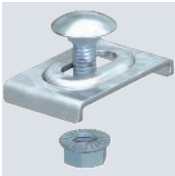


Type	Pack Piece	Weight kg/100 pc.	Item no.
GKB 34 A2	20	1.105	6016676

Clamp for fastening mesh cable trays of width 50 mm to the floor.

GKT 38 hold-down clamp

St G

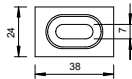
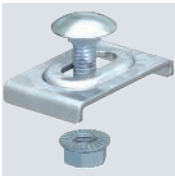


Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 G	20	2.123	6017037

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

GKT 38 hold-down clamp

St FT

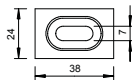


Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 FT	20	2.123	6017061

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

GKT 38 hold-down clamp

A2 VA 2B

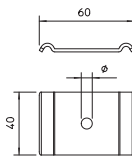
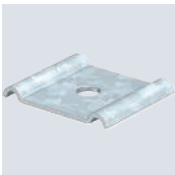


Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 A2	20	2.107	6017045
GKT 38 A4	10	2.200	6017092

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

GKS 50 hold-down clamp

St FS FT



Type	Hole Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
GKS 50 07 FS	7	50	3.522	6015263
GKS 50 07 FS SP	7	25	4.000	6015290
GKS 50 11 FS	11	50	4.000	6015276
GKS 50 07 FT	7	50	3.590	6015271
GKS 50 11 FT	11	50	3.500	6015278

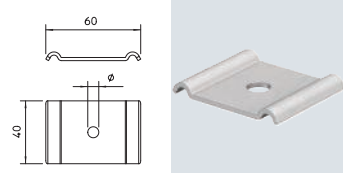
Use on mesh cable trays with 50 x 100 mm grid only.
Hold-down clamp for fastening mesh cable trays on the ground or on stand-off brackets of type DBL.

VA 2B

Hold-down clamp GKS 50

Type	Hole Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
GKS 50 11 A4	11	20	4.000	6015280

Use on mesh cable trays with 50 x 100 mm grid only.
Clamp for fastening mesh cable trays.

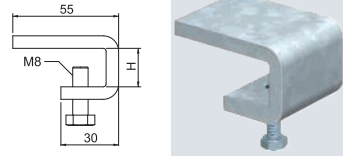


St FT

Beam clamp

Type	Height mm	Pack Piece	Weight kg/100 pc.	Item no.
KL 20 FT	20	10	19.000	6003850
KL 30 FT	30	10	22.500	6003869

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.

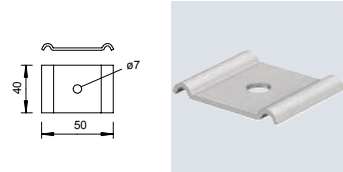


VA 2B

Hold-down clamp

Type	Hole Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
GKS 50 11 OP A4	11	50	4.000	6015315
GKS 50 07 A4	7	50	4.000	6015310

Use on mesh cable trays with 50 x 100 mm grid only.
Hold-down clamp for fastening mesh cable trays. Including lens head screw.

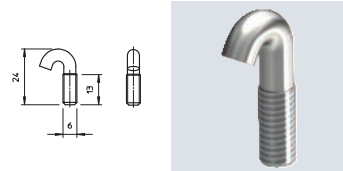


A2 A4 2B

HS M6 hook screw

Type	Thread	Pack Piece	Weight kg/100 pc.	Item no.
HS M6x13 A2	M6	100	0.573	1154990
HS M8x60 A4	M8	25	2.330	1154975

Hook screw for fastening cable tracks on the bracket.

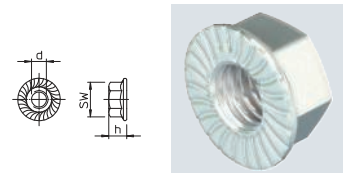


VA

Combination nut

Type	Dim. d mm	Dim. h mm	Resist- ance SW mm	Grade	Pack Piece	Weight kg/100 pc.	Item no.
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

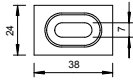
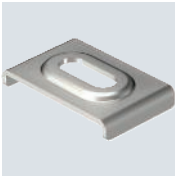
Combination nut with washer based on EN 1661.



Hold-down clamps

Hold-down clamp GKB 38

A2 2B

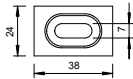
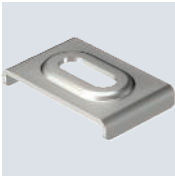


Type	Pack Piece	Weight kg/100 pc.	Item no.
GKB 38 A2	20	1.061	6017018

Hold-down clamp for floor fastening of mesh cable trays.

GKB 38 hold-down clamp

St G



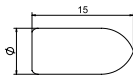
Type	Pack Piece	Weight kg/100 pc.	Item no.
GKB 38 G	20	1.074	6017020

Hold-down clamp for floor fastening of mesh cable trays.

End caps

Protective caps

PVC

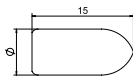


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
GR KS 3.9 OR	Pure orange	500	0.045	6003750
GR KS 4.8 OR	Pure orange	500	0.030	6003754

Protective cap to cover cut wire ends of mesh cable trays.

End cap

PVC



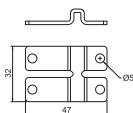
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
SGR KS OR	Pure orange	500	0.036	6003758

End cap to cover cut wire ends of mesh cable trays.

Wall and central fastener

Wall clamp and central hanger

St FT



Type	Version	Pack Piece	Weight kg/100 pc.	Item no.
WB GR FT	For wire thickness 6.0 mm	20	2.540	6017160

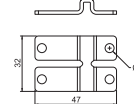
Fastening component for direct mounting of mesh cable trays to the wall and floor. Can be screwed or riveted on.

A4 2B

Wall clamp and central hanger

Type	Version	Pack Piece	Weight kg/100 pc.	Item no.
WB GR A4	For wire thickness 6.0 mm	20	2.423	6017164

Fastening component for direct mounting of mesh cable trays to the wall and floor. Can be screwed or riveted on.

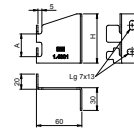


A2 2B

WBH CGR50 wall holder, horizontal

Type	Dim. A mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
WBH CGR50 A2	30	65	25	8.600	6016411

Wall holder for horizontal wall fastening of the C mesh cable tray. Screwless mesh cable tray fastening on the wall holder.

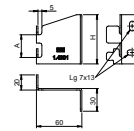


A2 2B

WBV CGR50 wall holder, vertical

Type	Dim. A mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
WBV CGR50 A2	75	110	25	16.000	6016415

Wall holder for vertical wall fastening of the C mesh cable tray. Screwless mesh cable tray fastening on the wall holder.

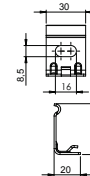


St FT

Wall holder for GRM 35x50 mesh cable tray

Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
WH GRM35 FT	35	50	10	1.950	6016443

Wall holder for wall fastening of mesh cable trays, type GRM 35 50.

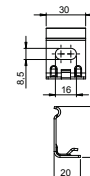


VA 2B

Wall holder for GRM 35x50 mesh cable tray

Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
WH GRM35 A4	35	50	10	1.950	6016445

Wall holder for fastening of mesh cable trays GRM 35 50.

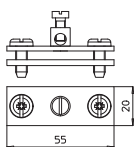
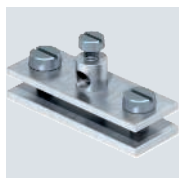


Industriestationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLEExport_03291) / 2023/05/05 11:26:04 11:26:04

Mesh cable trays

Earthing terminal for cables and flat conductors

St G

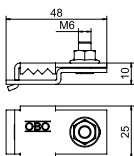


Type	Shipping box Piece	Pack	Weight	Item no.
		Piece	kg/100 pc.	
939	150	25	5.932	5043107

- 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

St FS



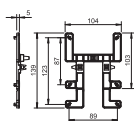
Type	Pack	Weight	Item no.
	Piece	kg/100 pc.	
VEK-GRM 3.9 FS	25	3.850	6016694
VEK-GRM 4.8 FS	25	3.800	6016696

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).

Mounting elements, junction box

Fastening element for mesh cable tray

PC

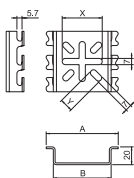


Type	Pack	Weight	Item no.
	Piece	kg/100 pc.	
BE TS GR	10	2.300	2007833

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.

Mounting plate for mesh cable tray

St FT

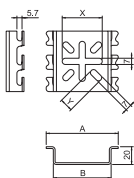
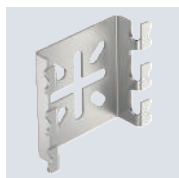


Type	Pack	Weight	Item no.
	Piece	kg/100 pc.	
MPG 65 FT	30	9.100	6006486
MPG 90 FT	30	16.800	6006487

Mounting plate for screwless wall fastening of mesh cable trays.

Mounting plate for mesh cable tray

VA 2B



Type	Pack	Weight	Item no.
	Piece	kg/100 pc.	
MPG 65 A4	30	8.800	6006488
MPG 90 A4	30	16.100	6006489

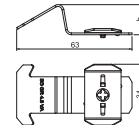
Accessories can be fastened to the mounting plate. In addition, the plate can be used for wall brackets. Mounting plate for screwless wall fastening of mesh cable trays.

VA 2B

Hold-down clip

Type	Dim.		Pack Piece	Weight kg/100 pc.	Item no.
	b mm	Version			
BC SGR A2	19	For wire Ø6.0 mm	20	1.900	6016668

Hold-down clip for the screwless mounting of mesh cable trays onto MS profile rails with a slot width of 22 mm.



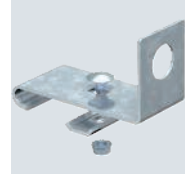
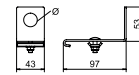
Side holder

St FS

Side holder for cable gland

Type	Hole Ø mm		Pack Piece	Weight kg/100 pc.	Item no.
SH KAB 20 FS	20		10	15.000	6015425
SH KAB 25 FS	25		10	14.700	6015433

Side holder with punched hole for accepting cable glands.



Mounting bracket

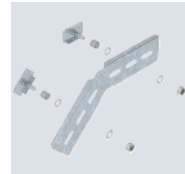
St FT

45° mounting bracket MW 45 SL10

Type	Pack Piece	Weight kg/100 pc.	Item no.

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.



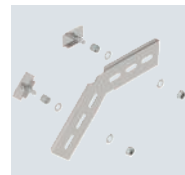
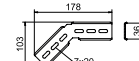
A2 2B

45° mounting angle MW 45 SL10

Type	Pack Piece	Weight kg/100 pc.	Item no.

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.



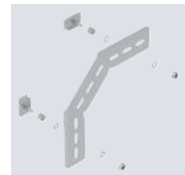
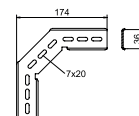
St FT

MW 90 SL 90° mounting bracket

Type	Pack Piece	Weight kg/100 pc.	Item no.
MW 90 SL23 FT	20	35.400	6017355

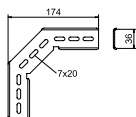
Each with two clamps of type KS 23/35.

90° installation profile, vertical, for C mesh cable tray and GR-Magic® mesh cable tray with a side height of 55 mm.



MW 90 SL 90° mounting bracket

A2 2B



Type	Pack Piece	Weight kg/100 pc.	Item no.
MW 90 SL17 A2	20	27.000	6016278
MW 90 SL23 A2	20	34.700	6016308

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.

Tool

Bolt cutter

St

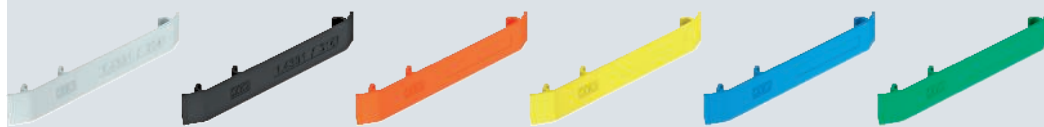
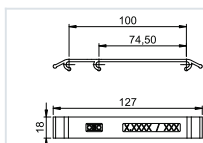


Type	Pack Piece	Weight kg/100 pc.	Item no.
GR BS	1	85.000	6017698

Bolt cutter for cutting mesh cable trays.

Labelling

Identification clip



Type	KS GR LGR	KS GR VKG	KS GR OR	KS GR ZGB	KS GR LBL	KS GR SGN
Colour	Light grey	Traffic grey B	Pastel orange	Zinc yellow	Light blue	Signal green
Weight kg/100 pc.	0.769	0.920	0.763	0.742	0.763	0.763
Pack Piece	10	10	10	10	10	10
Item no.	6017710	6017711	6017712	6017713	6017714	6017715

PA Polyamide

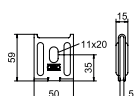
The identification clip is fastened to the mesh cable tray without screws simply by attaching it.

Identification clip for screwless fastening on mesh cable trays.

HOLDERS and fastenings

Wall clamp/central hanger

St FS



Type	Pack Piece	Weight kg/100 pc.	Item no.
K 12 1818 FS	25	7.800	6437109

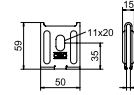
As wall fastening up to max. mesh cable tray width 200 mm.
As centre suspension up to max. mesh cable tray width 200 mm.
As a pendulum suspension from a width of 300 mm.
Wall clamp and central hanger for mesh cable trays.

A2 2B

Wall clamp/central hanger

Type	Pack Piece	Weight kg/100 pc.	Item no.
K12 1818 A2	25	7.700	6016421

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.

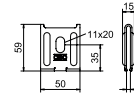


A4 2B

Wall clamp/central hanger

Type	Pack Piece	Weight kg/100 pc.	Item no.
K12 1818 A4	25	8.940	6016425

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.

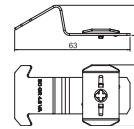


VA 2B

Hold down clip

Type	Dim. b mm	Version	Pack Piece	Weight kg/100 pc.	Item no.
BC GR 4.8 A2	17	For wire thicknesses 3.9 and 4.8 mm	20	1.760	6016665

Hold-down clip for the screwless mounting of mesh cable trays onto MS profile rails with a slot width of 22 mm.

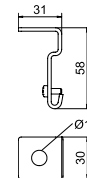


St FS FT

Side holder

Type	Pack Piece	Weight kg/100 pc.	Item no.
SH M10 FS	50	5.800	6015336
SH M10 FT	50	5.650	6015338

Side holder for suspension of mesh cable trays.

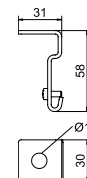


VA 2B

Side holder

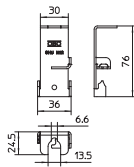
Type	Pack Piece	Weight kg/100 pc.	Item no.
SH M10 A4	20	5.500	6015340

Side holder for suspension of mesh cable trays.



Side holder, universal

St FS DD

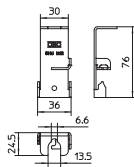


Type	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
SHU M12 FS	0.5	50	5.100	6015322
SHU M12 DD	0.5	50	5.100	6015324

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

Side holder, universal

A4 2B

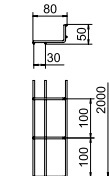
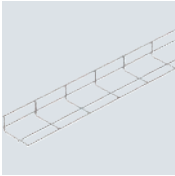


Type	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
SHU M12 A4	0.5	50	5.100	6015328

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

Mesh angle

St FT

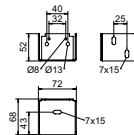


Type	Length mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
GW 40 80 FT	2000	4.4	2	63.000	6003818

Mesh angle for routing cables in steel girders.
 Magnetic shield insulation without cover 15 dB, with cover 25 dB.

WL wall bearing for luminaire support tray

St FS



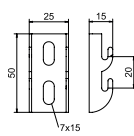
Type	Pack Piece	Weight kg/100 pc.	Item no.
WL 607.5 LTR FS	10	21.000	6050345

Wall bearing for mounting of luminaire support trays on the wall.

Hook rails for G mesh cable tray

Hook rail for G mesh cable tray

St FS



Type	Length mm	Width mm	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
G-GRM-R50 FS	50	25	15	25	2.300	6005605

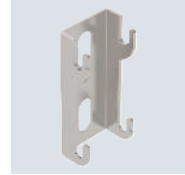
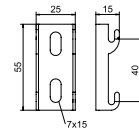
Hook rail for wall mounting of G mesh cable trays

A2 2B

Hook rail for G mesh cable tray

Type	Length mm	Width mm	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
G-GRM-R50 A2	50	25	15	25	2.300	6005635

Hook rail for wall mounting of G mesh cable trays

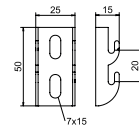


St FS

Hook rail for G mesh cable tray

Type	Length mm	Width mm	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
G-GRM-R75 FS	55	25	15	25	2.400	6005607

Hook rail for wall mounting of G mesh cable trays

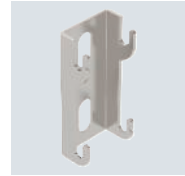
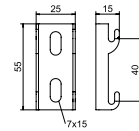


A2 2B

Hook rail for G mesh cable tray

Type	Length mm	Width mm	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
G-GRM-R75 A2	55	25	15	25	2.400	6005637

Hook rail for wall mounting of G mesh cable trays

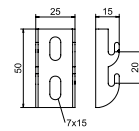


St FS

Hook rail for G mesh cable tray

Type	Length mm	Width mm	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
G-GRM-R125 FS	105	25	15	25	4.600	6005612

Hook rail for wall mounting of G mesh cable trays

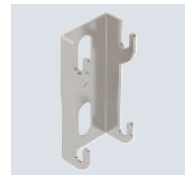
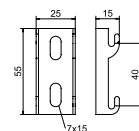


A2 2B

Hook rail for G mesh cable tray

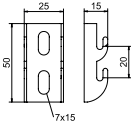
Type	Length mm	Width mm	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
G-GRM-R125 A2	105	25	15	25	4.600	6005642

Hook rail for wall mounting of G mesh cable trays



Hook rail for G mesh cable tray

St FS

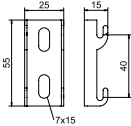


Type	Length mm	Width mm	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
G-GRM-R150 FS	110	25	15	25	4.800	6005615

Hook rail for wall mounting of G mesh cable trays

Hook rail for G mesh cable tray

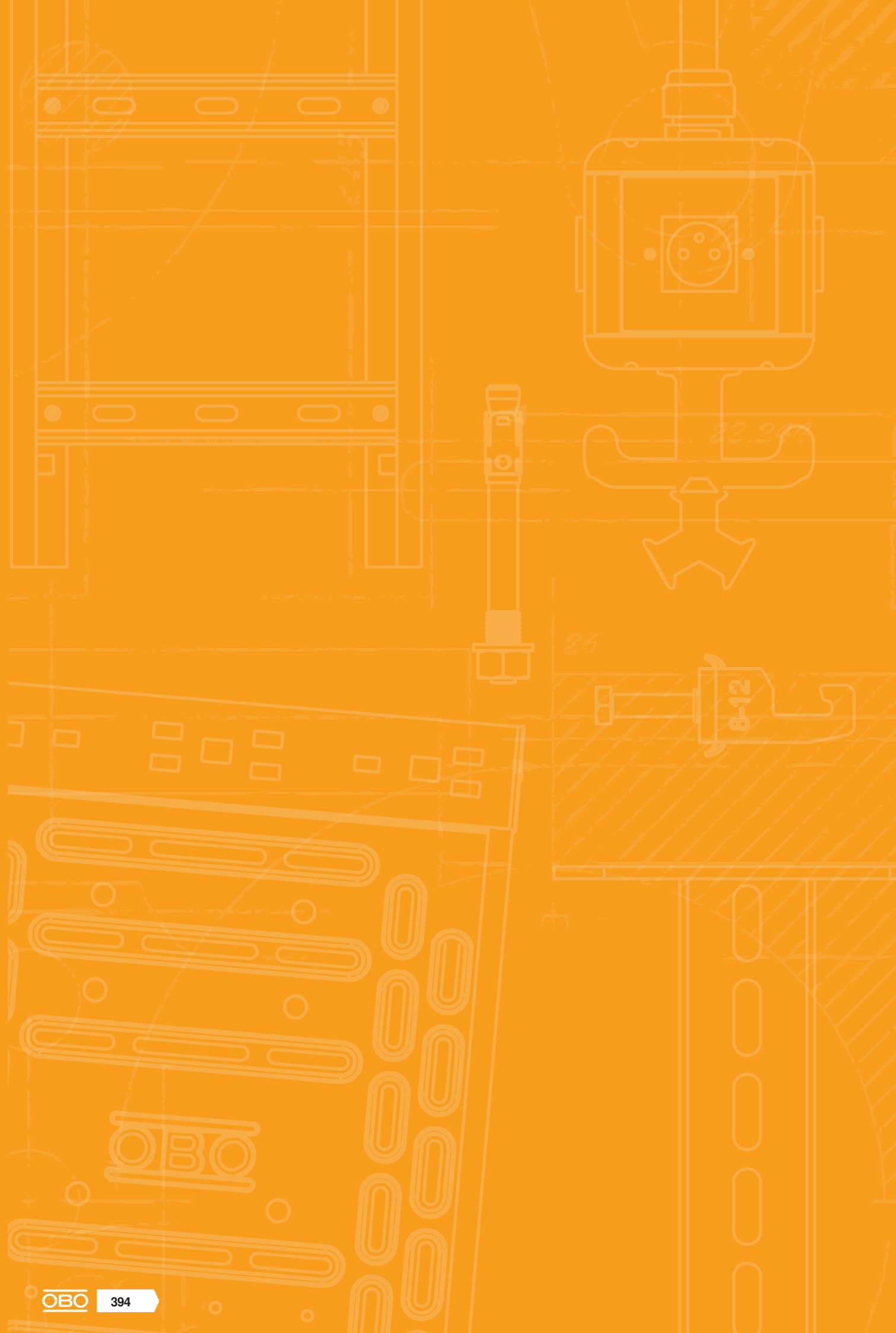
A2 2B



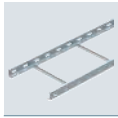
Type	Length mm	Width mm	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
G-GRM-R150 A2	110	25	15	25	4.800	6005645

Hook rail for wall mounting of G mesh cable trays





Cable ladder systems



Cable ladders

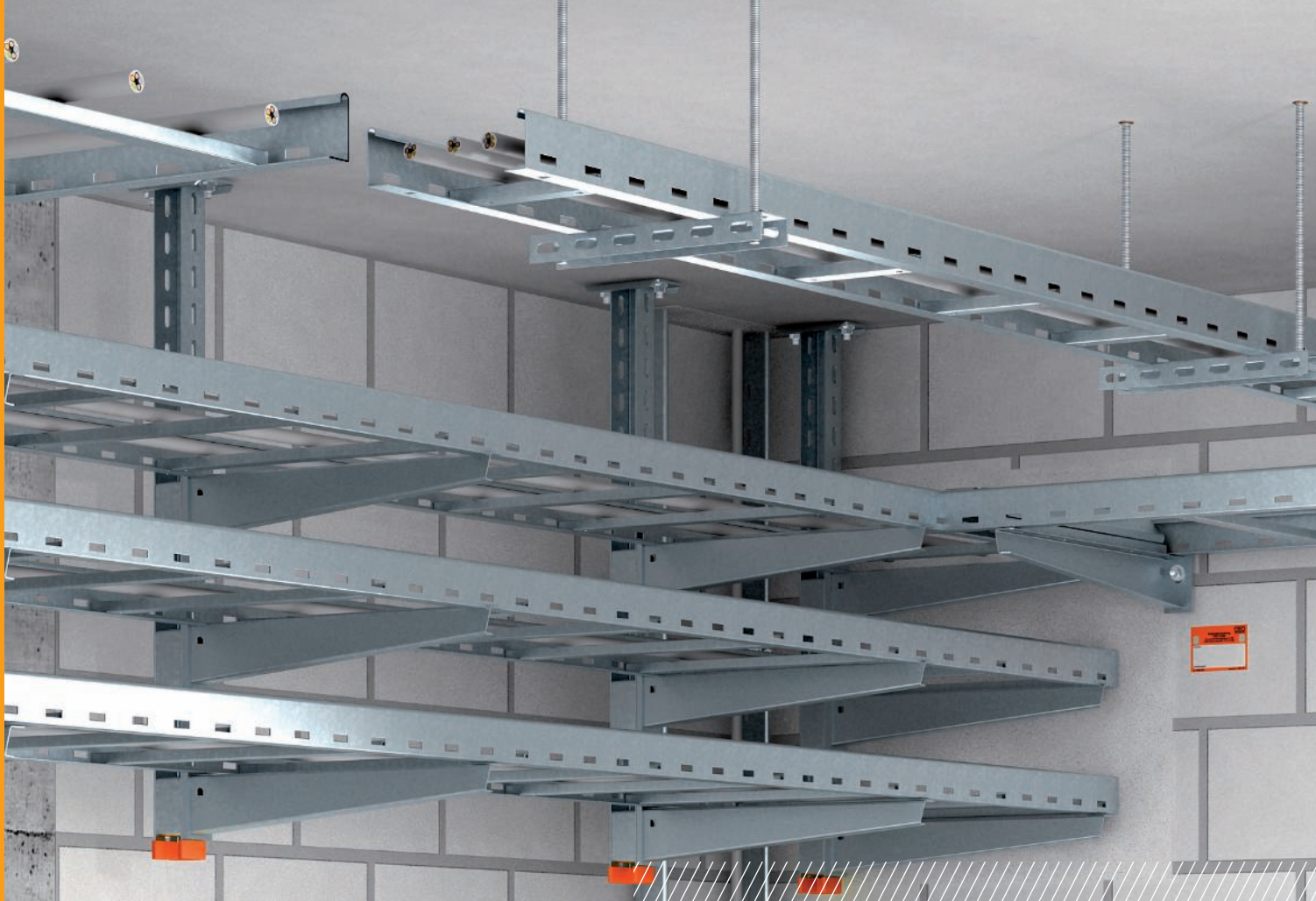
396



Vertical ladders

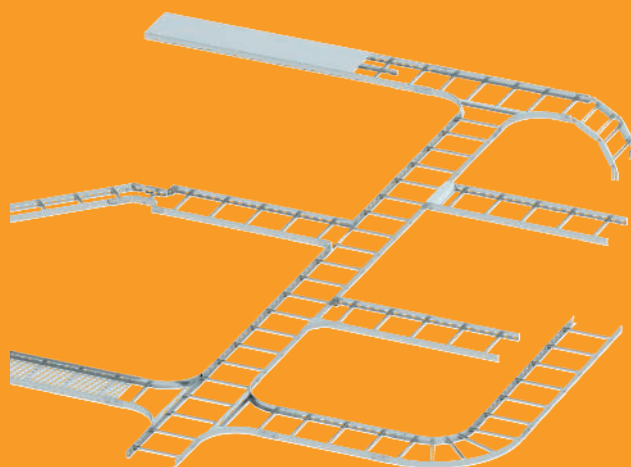
486





Riveted cable ladder systems

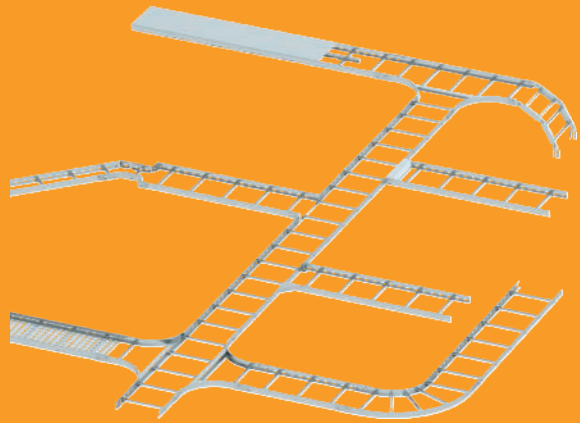
The high load capacity and good ventilation of the OBO cable ladder systems can offer tangible benefits, in particular during the installation of power cables. OBO Bettermann's cable ladder systems can be used universally and, due to the continuous rail and rung perforation, can offer countless installation benefits. A factor guaranteeing easy mounting is the option of integrated fastening of cables using OBO U clamps to the rungs, which are available in various different versions.





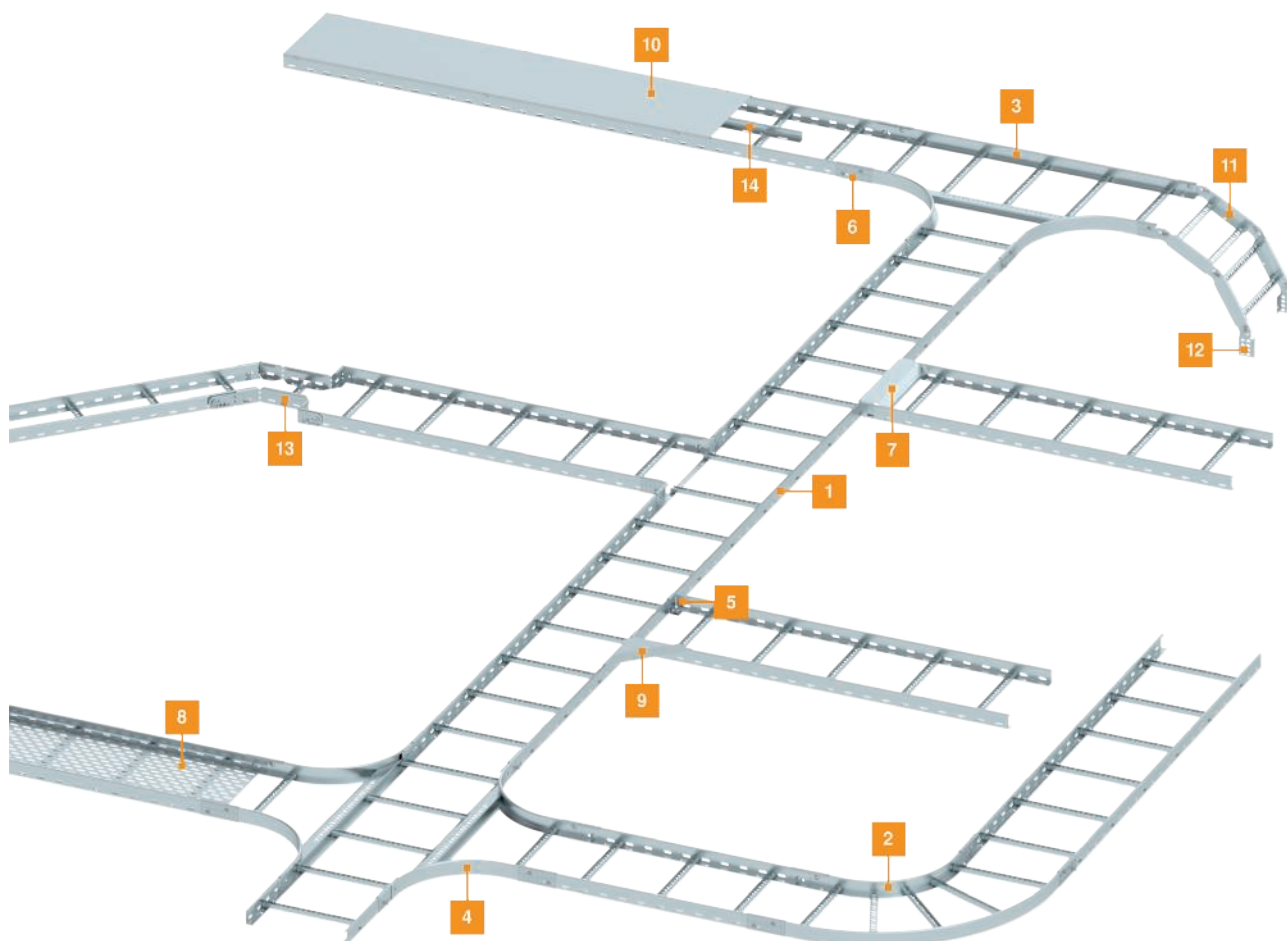
Welded cable ladder systems

The high load capacity and good ventilation of the OBO cable ladder systems can offer tangible benefits, in particular during the installation of power cables. OBO Bettermann's cable ladder systems can be used universally and, due to the continuous rail and rung perforation, can offer countless installation benefits. A factor guaranteeing easy mounting is the option of integrated fastening of cables using OBO U clamps to the rungs, which are available in various different versions.



Riveted cable ladder systems

Installation principle

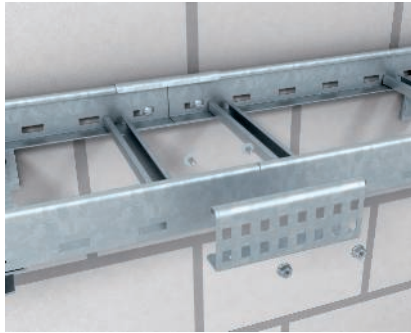


1	Cable ladders	11	Adjustable bend element
2	90° bend, welded	12	Adjustable connector
3	Tee, welded	13	Multifunctional connector
4	Add-on tee, welded	14	Barrier strip
5	Connection piece		
6	Straight connector		
7	Support plate		
8	Insertion plate		
9	Corner plate		
10	Cover with cover clamp		

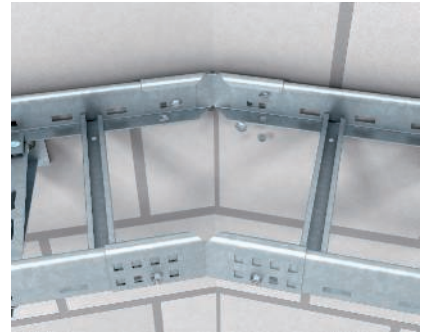
Mounting aid



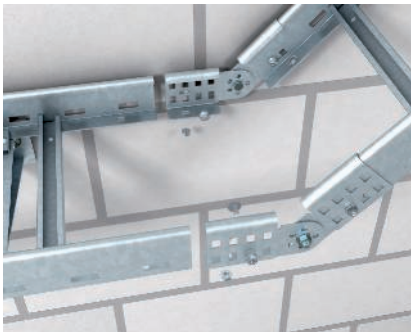
Jump application
Implementation of vertical jumps with adjustable connectors, e.g. for ceiling joists.



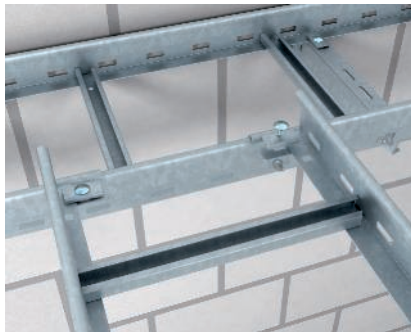
Straight connection of cable ladders
Straight connection of cable ladder with straight connector, type LVG.



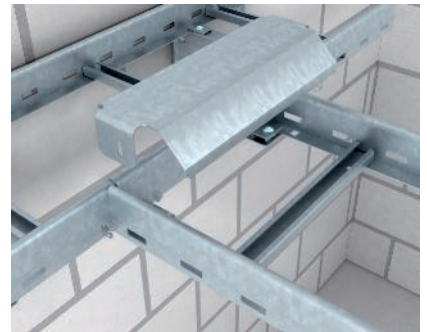
Horizontal angle connection of cable ladders
Horizontal angle connection with straight and angle connectors, type LWVG.



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



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



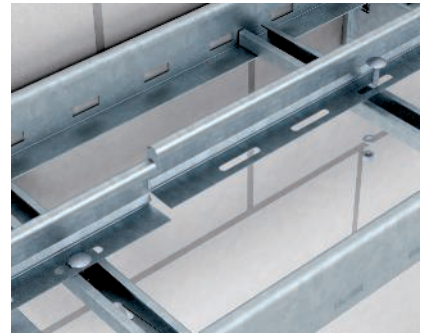
Tee with support plate
Creation of horizontal tees for cable ladders running at the same height. To increase the cable supporting surface and to protect the cables, use support plates, type LALB. Additional supports should be planned for the area of the exits.



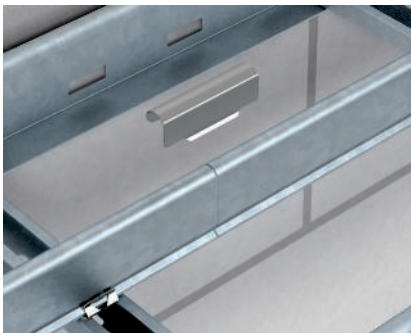
Vertical cable exit
The exit plate, type LAB, is used to increase the cable supporting surface for vertically exiting cables and as cable protection.



Screwless barrier strip fastening
Screwless fastening of a barrier strip in cable ladders with hold-down clamp, type KS KL.



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



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

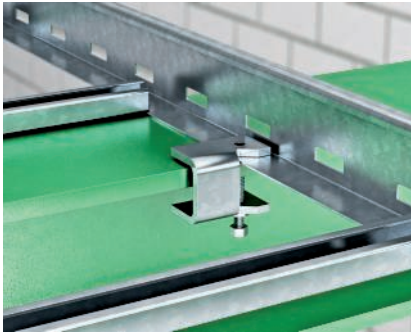


Installation of insert plate
Installation of insert plates, type ELB-L.

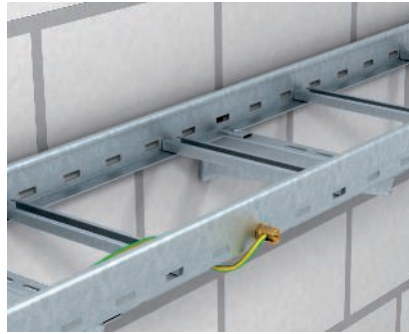


Cover mounting
Covers for cable trays and cable ladders can be extended to a locking cover using the cover clamp DK DRLU A2.





Cable ladder hold-down clamp
Cable ladder hold-down clamp KLL for direct mounting of cable ladders to steel girders.



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

Mounting aid



Adjustable vertical bend

Adjustable bend from adjustable bend elements of the type LGBE with adjustable connector for the bridging of height offsets.



Tee

Creation of a one-sided branch with a tee of the type LAA.



Add-on tee, symmetrical

Mounting two add-on tees, type LAA, on a cable ladder as symmetrical cross-over.



Mounting of a tee

Mounting of a tee of the type LT to create a one-sided branch for cable ladders.



90° bend

Connection of two cable ladders at a horizontal 90° angle with a bend, type LB 90.



Multifunctional connector for cable ladders

Creation of a one-sided branch with a multifunctional connector of the type LMFV.



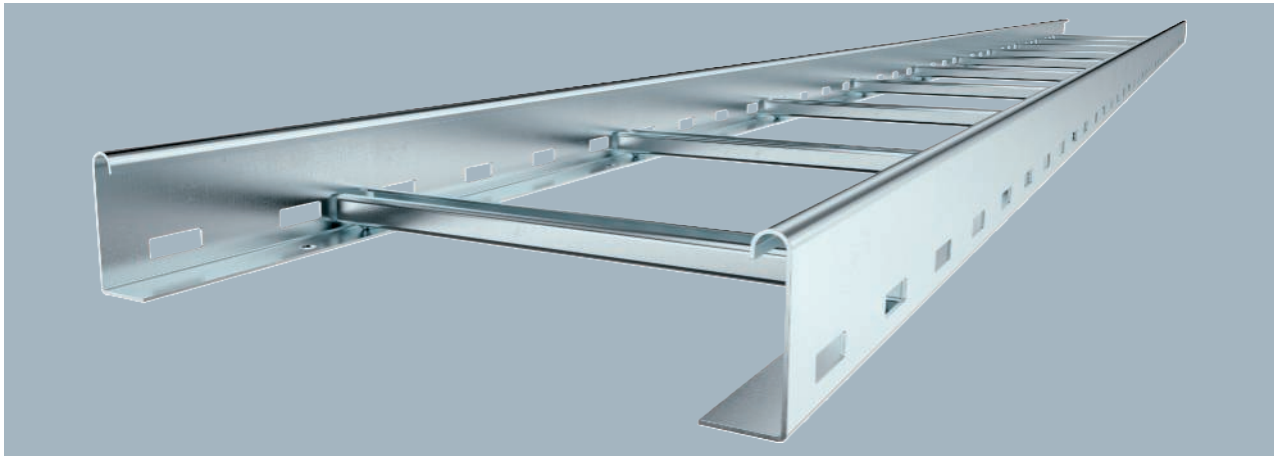
Multifunctional connector for cable ladders

Creation of a reduction, including 45° angle, using a multifunctional connector, type LMFV.



Cable ladder LCIS 60, 3 m C30

St FS

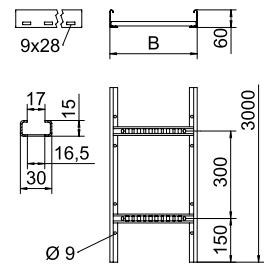


Type	Width mm	Pack m	Weight kg/100 m	Item no.
LCIS 620 3 FS	200	3	266.670	6209610
LCIS 630 3 FS	300	3	288.670	6209612
LCIS 640 3 FS	400	3	310.340	6209614
LCIS 650 3 FS	500	3	332.340	6209616
LCIS 660 3 FS	600	3	354.000	6209618

Cable ladder with a 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 hold-down clamps, type LKS 40. The slot dimension of the rung is 16.5 mm and the appropriate clamp clip is type 2056.

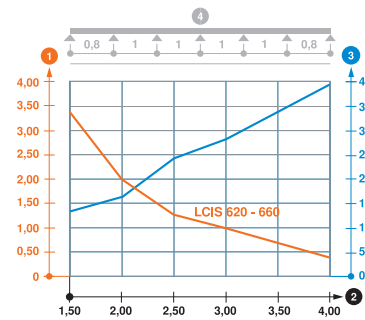
Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm ²	Rung spacing mm
LCIS 620 3 FS	3000	200	1.5	80	300
LCIS 630 3 FS	3000	300	1.5	120	300
LCIS 640 3 FS	3000	400	1.5	160	300
LCIS 650 3 FS	3000	500	1.5	200	300
LCIS 660 3 FS	3000	600	1.5	240	300

Dimensions



	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



Load diagram LCIS 60

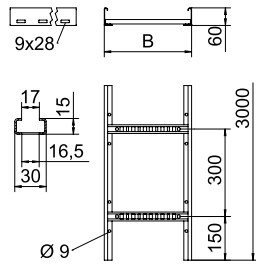
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



Cable ladder with a 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 hold-down clamps, type LKS 40. The slot dimension of the rung is 16.5 mm and the appropriate clamp clip is type 2056.

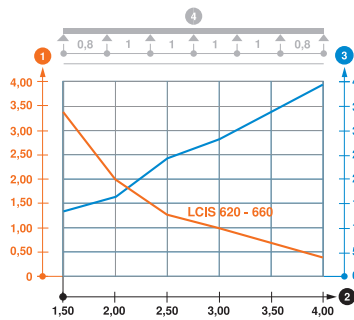
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LCIS 620 3 FT	200	3	283.000	6209721
LCIS 630 3 FT	300	3	306.000	6209723
LCIS 640 3 FT	400	3	329.340	6209725
LCIS 650 3 FT	500	3	352.340	6209727
LCIS 660 3 FT	600	3	375.340	6209729

Dimensions



Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm ²	Rung spacing mm
LCIS 620 3 FT	3000	200	1.5	80	300
LCIS 630 3 FT	3000	300	1.5	120	300
LCIS 640 3 FT	3000	400	1.5	160	300
LCIS 650 3 FT	3000	500	1.5	200	300
LCIS 660 3 FT	3000	600	1.5	240	300

Load



	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 FT	3.3	2	1.3	1	0.4
LCIS 630 3 FT	3.3	2	1.3	1	0.4
LCIS 640 3 FT	3.3	2	1.3	1	0.4
LCIS 650 3 FT	3.3	2	1.3	1	0.4
LCIS 660 3 FT	3.3	2	1.3	1	0.4

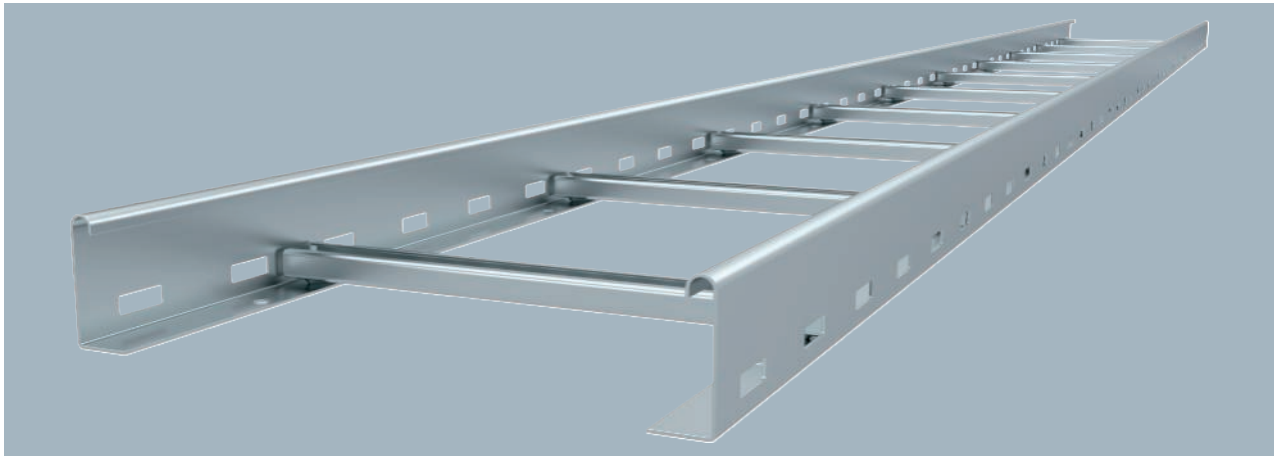
Load diagram LCIS 60

- 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



Cable ladder LCIS 60, 6 m C30

St FS

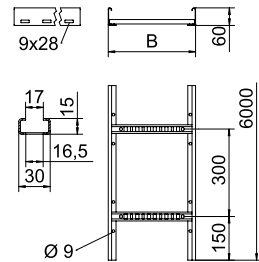


Type	Width mm	Pack m	Weight kg/100 m	Item no.
LCIS 620 6 FS	200	6	267.170	6209630
LCIS 630 6 FS	300	6	288.840	6209632
LCIS 640 6 FS	400	6	310.670	6209634
LCIS 650 6 FS	500	6	332.340	6209636
LCIS 660 6 FS	600	6	354.000	6209638

Cable ladder with a 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 hold-down clamps, type LKS 40. The slot dimension of the rung is 16.5 mm and the appropriate clamp clip is type 2056.

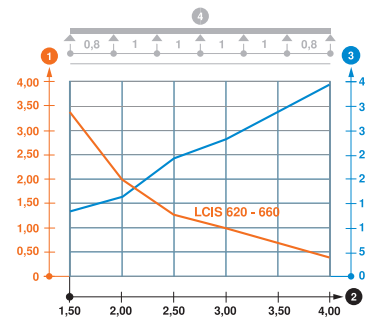
Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm ²	Rung spacing mm
LCIS 620 6 FS	6000	200	1.5	80	300
LCIS 630 6 FS	6000	300	1.5	120	300
LCIS 640 6 FS	6000	400	1.5	160	300
LCIS 650 6 FS	6000	500	1.5	200	300
LCIS 660 6 FS	6000	600	1.5	240	300

Dimensions



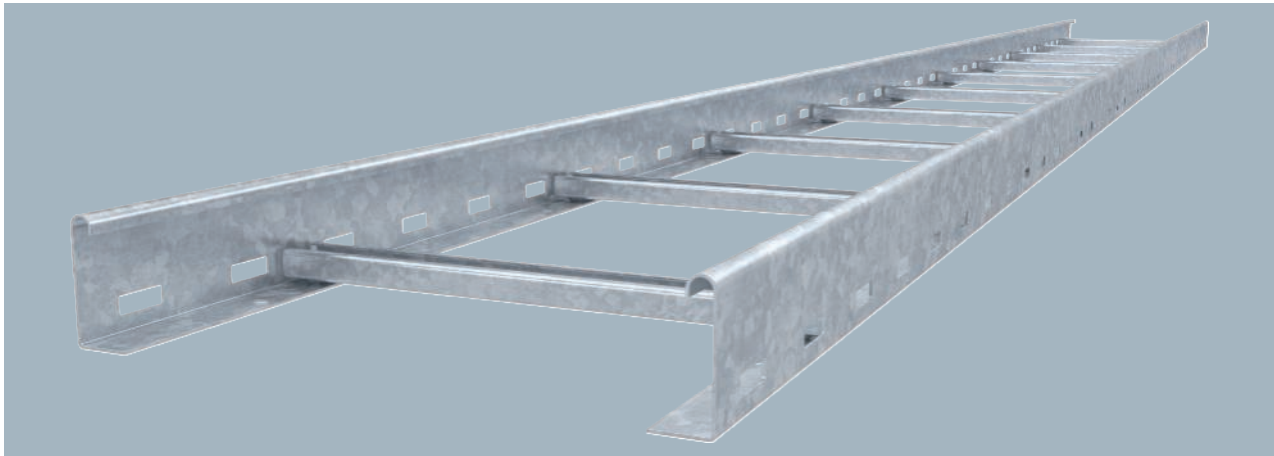
	1.5 m	2.0 m	2.5 m	3.0 m	4.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
LCIS 620 6 FS	3.3	2	1.3	1	0.4
LCIS 630 6 FS	3.3	2	1.3	1	0.4
LCIS 640 6 FS	3.3	2	1.3	1	0.4
LCIS 650 6 FS	3.3	2	1.3	1	0.4
LCIS 660 6 FS	3.3	2	1.3	1	0.4

Load



Load diagram LCIS 60

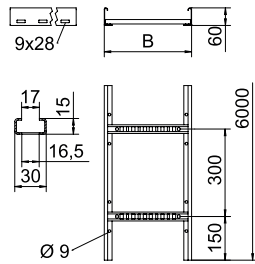
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



Cable ladder with a 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 hold-down clamps, type LKS 40. The slot dimension of the rung is 16.5 mm and the appropriate clamp clip is type 2056.

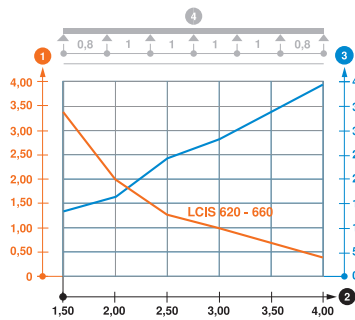
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LCIS 620 6 FT	200	6	283.170	6209643
LCIS 630 6 FT	300	6	306.170	6209645
LCIS 640 6 FT	400	6	329.170	6209647
LCIS 650 6 FT	500	6	352.340	6209649
LCIS 660 6 FT	600	6	375.340	6209651

Dimensions



Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm ²	Rung spacing mm
LCIS 620 6 FT	6000	200	1.5	80	300
LCIS 630 6 FT	6000	300	1.5	120	300
LCIS 640 6 FT	6000	400	1.5	160	300
LCIS 650 6 FT	6000	500	1.5	200	300
LCIS 660 6 FT	6000	600	1.5	240	300

Load



	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 FT	3.3	2	1.3	1	0.4
LCIS 630 6 FT	3.3	2	1.3	1	0.4
LCIS 640 6 FT	3.3	2	1.3	1	0.4
LCIS 650 6 FT	3.3	2	1.3	1	0.4
LCIS 660 6 FT	3.3	2	1.3	1	0.4

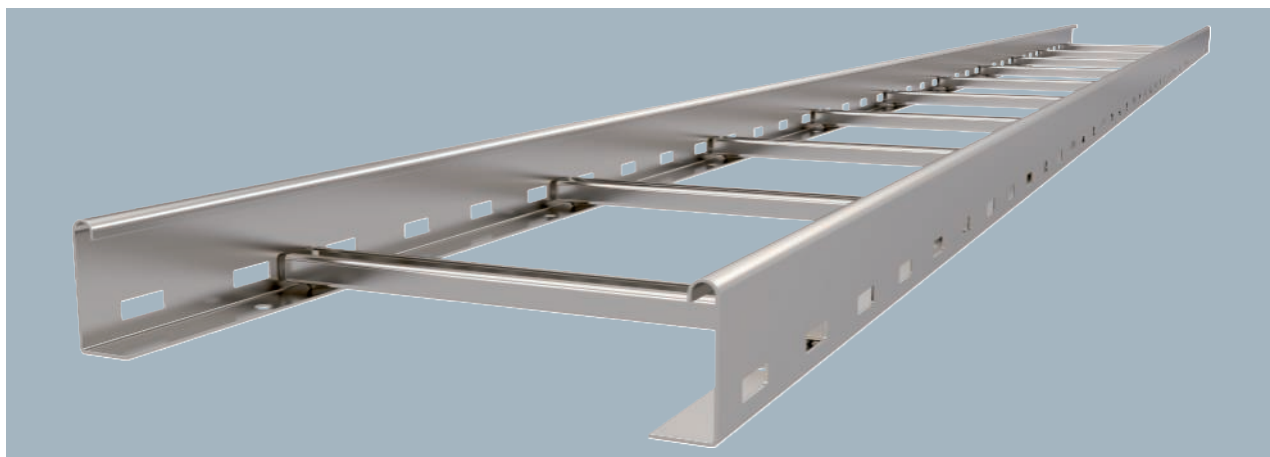
Load diagram LCIS 60

- 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



Cable ladder LCIS 60, 6 m C30

A2 2B

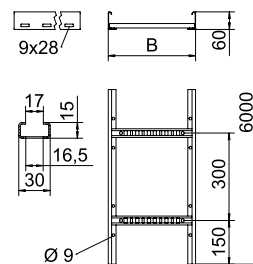


Type	Width mm	Pack m	Weight kg/100 m	Item no.
LCIS 620 6 A2	200	6	267.000	6207252
LCIS 630 6 A2	300	6	288.840	6207254
LCIS 640 6 A2	400	6	310.500	6207256
LCIS 650 6 A2	500	6	332.340	6207258
LCIS 660 6 A2	600	6	354.000	6207260

Cable ladder with 60 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamps, type LKS 40. The slot dimension of the frame is 16.5 mm and the appropriate clamp clip is type 2056.

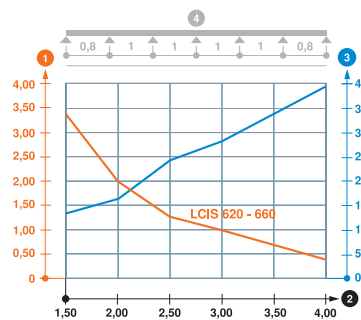
Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm ²	Rung spacing mm
LCIS 620 6 A2	6000	200	1.5	80	300
LCIS 630 6 A2	6000	300	1.5	120	300
LCIS 640 6 A2	6000	400	1.5	160	300
LCIS 650 6 A2	6000	500	1.5	200	300
LCIS 660 6 A2	6000	600	1.5	240	300

Dimensions



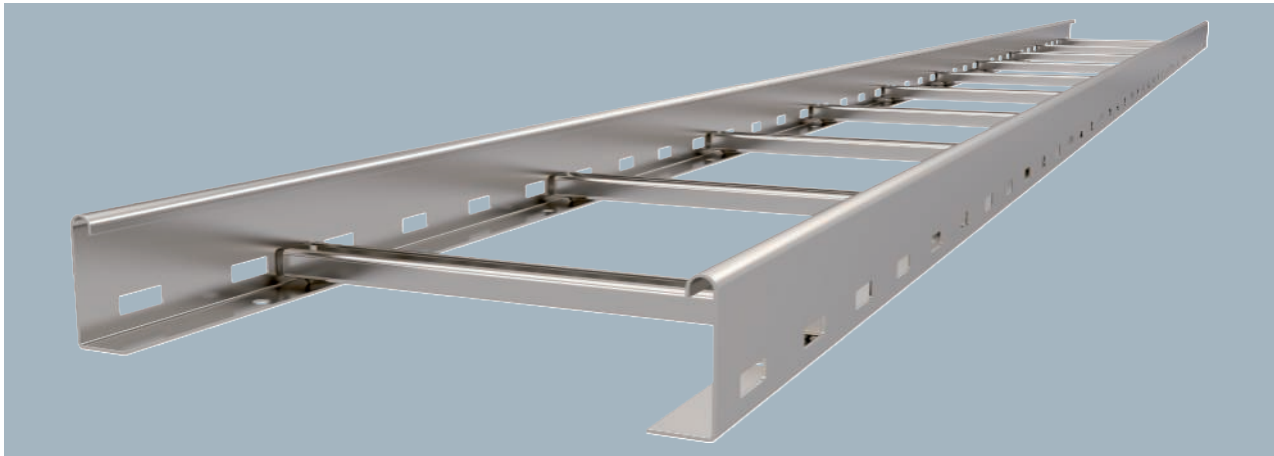
	1.5 m	2.0 m	2.5 m	3.0 m	4.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
LCIS 620 6 A2	3.3	2	1.3	1	0.4
LCIS 630 6 A2	3.3	2	1.3	1	0.4
LCIS 640 6 A2	3.3	2	1.3	1	0.4
LCIS 650 6 A2	3.3	2	1.3	1	0.4
LCIS 660 6 A2	3.3	2	1.3	1	0.4

Load



Load diagram LCIS 60

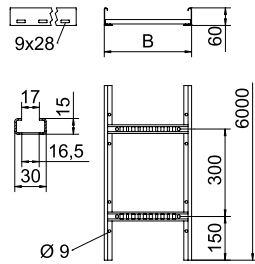
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



Cable ladder with 60 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamps, type LKS 40. The slot dimension of the frame is 16.5 mm and the appropriate clamp clip is type 2056.

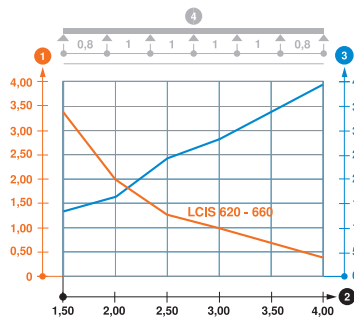
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LCIS 620 6 A4	200	6	267.000	6207202
LCIS 630 6 A4	300	6	288.833	6207204
LCIS 640 6 A4	400	6	310.500	6207206
LCIS 650 6 A4	500	6	332.340	6207208
LCIS 660 6 A4	600	6	354.000	6207210

Dimensions



Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm ²	Rung spacing mm
LCIS 620 6 A4	6000	200	1.5	80	300
LCIS 630 6 A4	6000	300	1.5	120	300
LCIS 640 6 A4	6000	400	1.5	160	300
LCIS 650 6 A4	6000	500	1.5	200	300
LCIS 660 6 A4	6000	600	1.5	240	300

Load



	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 A4	3.3	2	1.3	1	0.4
LCIS 630 6 A4	3.3	2	1.3	1	0.4
LCIS 640 6 A4	3.3	2	1.3	1	0.4
LCIS 650 6 A4	3.3	2	1.3	1	0.4
LCIS 660 6 A4	3.3	2	1.3	1	0.4

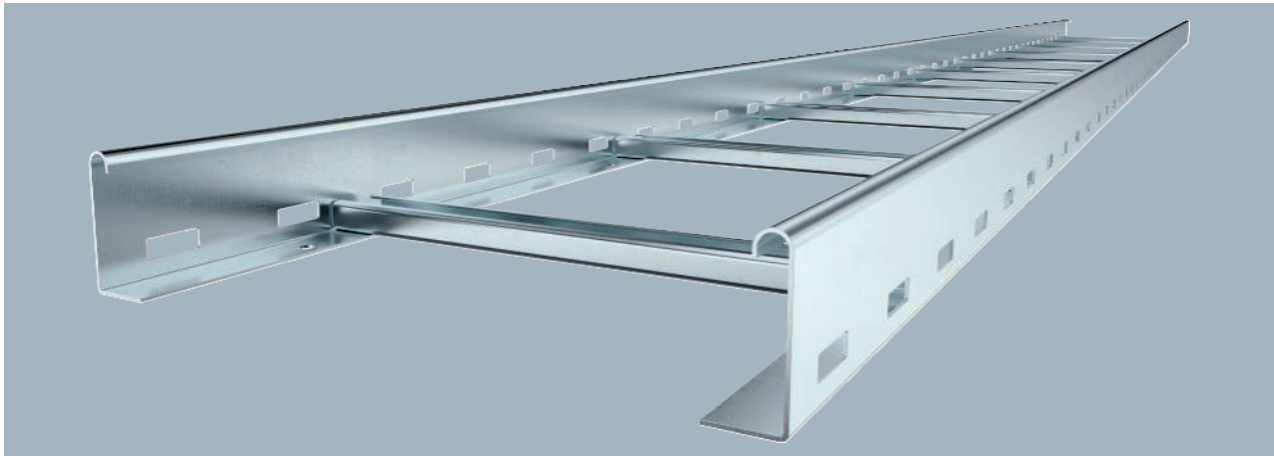
Load diagram LCIS 60

- 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



Cable ladder LG 60, 3 m VS

St FS

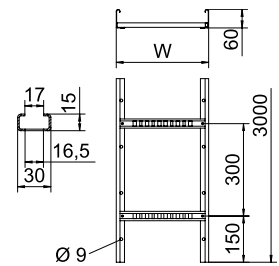


Type	Width mm	BS	Pack m	Weight kg/100 m	Item no.
LG 620 VS 3 FS	200		3	267.000	6208538
LG 630 VS 3 FS	300		3	288.933	6208541
LG 640 VS 3 FS	400		3	314.600	6208544
LG 650 VS 3 FS	500		3	332.600	6208547
LG 660 VS 3 FS	600		3	354.266	6208550

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 that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for maintenance of electrical function, 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).

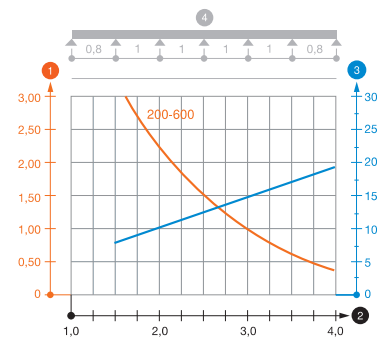
Type	Length mm	Dim. B mm	Rail thick- ness mm	Usable cross- section cm ²	Rung spacing mm
LG 620 VS 3 FS	3000	200	1.5	98	300
LG 630 VS 3 FS	3000	300	1.5	148	300
LG 640 VS 3 FS	3000	400	1.5	198	300
LG 650 VS 3 FS	3000	500	1.5	248	300
LG 660 VS 3 FS	3000	600	1.5	298	300

Dimensions



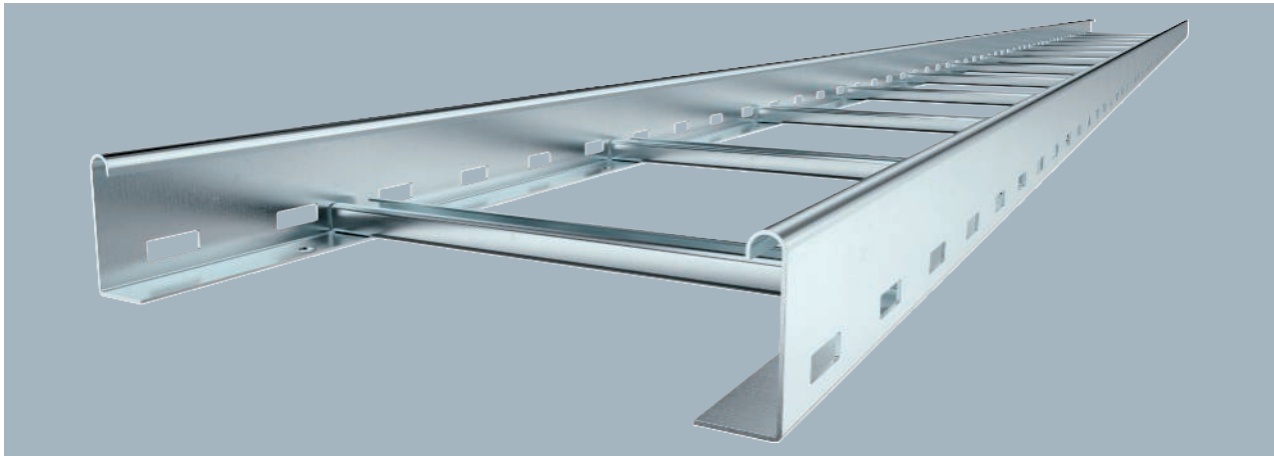
	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LG 620 VS 3 FS	2.25	1.5	1.1	0.45
LG 630 VS 3 FS	2.25	1.5	1.1	0.45
LG 640 VS 3 FS	2.25	1.5	1.1	0.45
LG 650 VS 3 FS	2.25	1.5	1.1	0.45
LG 660 VS 3 FS	2.25	1.5	1.1	0.45

Load



Load diagram, LG 60 VS

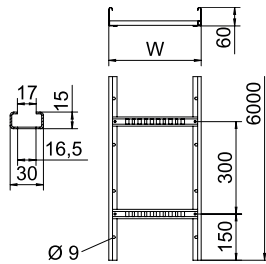
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



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 that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for maintenance of electrical function, 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).

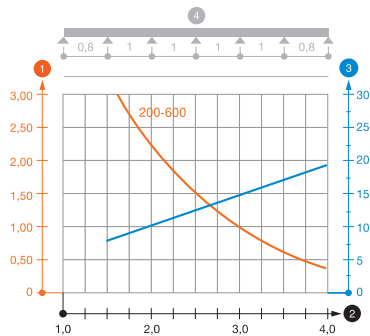
Type	Width		Pack m	Weight kg/100 m	Item no.
	mm	BS			
LG 620 VS 6 FS	200		6	267.066	6208627
LG 630 VS 6 FS	300		6	288.733	6208630
LG 640 VS 6 FS	400		6	314.400	6208633
LG 650 VS 6 FS	500		6	332.400	6208636
LG 660 VS 6 FS	600		6	354.066	6208639

Dimensions



Type	Length mm	Dim. B mm	Rail		Usable Rung spacing mm
			thick-ness mm	cross-section cm ²	
LG 620 VS 6 FS	6000	200	1.5	98	300
LG 630 VS 6 FS	6000	300	1.5	148	300
LG 640 VS 6 FS	6000	400	1.5	198	300
LG 650 VS 6 FS	6000	500	1.5	248	300
LG 660 VS 6 FS	6000	600	1.5	298	300

Load



Type	2.0 m	2.5 m	3.0 m	4.0 m
	kN/m	kN/m	kN/m	kN/m
LG 620 VS 6 FS	2.25	1.5	1.1	0.45
LG 630 VS 6 FS	2.25	1.5	1.1	0.45
LG 640 VS 6 FS	2.25	1.5	1.1	0.45
LG 650 VS 6 FS	2.25	1.5	1.1	0.45
LG 660 VS 6 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



Cable ladder LG 60, 3 m VS

St FT

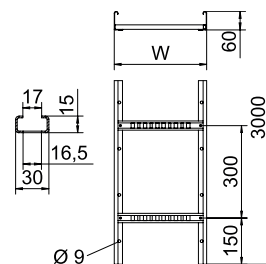


Type	Width mm	BS	Pack m	Weight kg/100 m	Item no.
LG 620 VS 3 FT	200		3	285.066	6208562
LG 630 VS 3 FT	300		3	308.000	6208566
LG 640 VS 3 FT	400		3	331.000	6208570
LG 650 VS 3 FT	500		3	354.733	6208574
LG 660 VS 3 FT	600		3	385.400	6208578

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 that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for the maintenance of electrical function, 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).

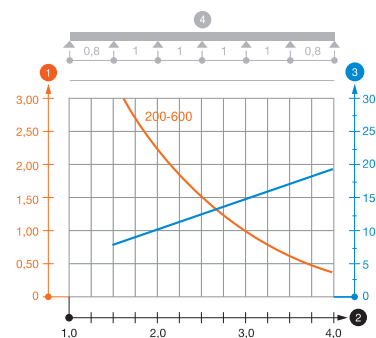
Type	Length mm	Dim. B mm	Rail thick- ness mm	Usable cross- section cm ²	Rung spacing mm
LG 620 VS 3 FT	3000	200	1.5	98	300
LG 630 VS 3 FT	3000	300	1.5	148	300
LG 640 VS 3 FT	3000	400	1.5	198	300
LG 650 VS 3 FT	3000	500	1.5	248	300
LG 660 VS 3 FT	3000	600	1.5	298	300

Dimensions



	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LG 620 VS 3 FT	2.25	1.5	1.1	0.45
LG 630 VS 3 FT	2.25	1.5	1.1	0.45
LG 640 VS 3 FT	2.25	1.5	1.1	0.45
LG 650 VS 3 FT	2.25	1.5	1.1	0.45
LG 660 VS 3 FT	2.25	1.5	1.1	0.45

Load



Load diagram, LG 60 VS

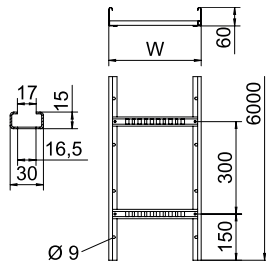
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



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 that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for maintenance of electrical function, 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).

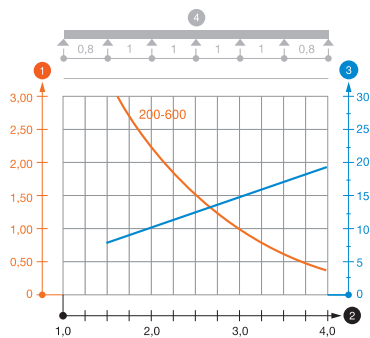
Type	Width mm	BS	Pack m	Weight kg/100 m	Item no.
LG 620 VS 6 FT	200		6	284.833	6208650
LG 630 VS 6 FT	300		6	307.833	6208653
LG 640 VS 6 FT	400		6	330.833	6208656
LG 650 VS 6 FT	500		6	354.500	6208659
LG 660 VS 6 FT	600		6	385.166	6208661

Dimensions



Type	Length mm	Dim. B mm	Rail thick- ness mm	Usable cross- section cm ²	Rung spacing mm
LG 620 VS 6 FT	6000	200	1.5	98	300
LG 630 VS 6 FT	6000	300	1.5	148	300
LG 640 VS 6 FT	6000	400	1.5	198	300
LG 650 VS 6 FT	6000	500	1.5	248	300
LG 660 VS 6 FT	6000	600	1.5	298	300

Load



	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LG 620 VS 6 FT	2.25	1.5	1.1	0.45
LG 630 VS 6 FT	2.25	1.5	1.1	0.45
LG 640 VS 6 FT	2.25	1.5	1.1	0.45
LG 650 VS 6 FT	2.25	1.5	1.1	0.45
LG 660 VS 6 FT	2.25	1.5	1.1	0.45

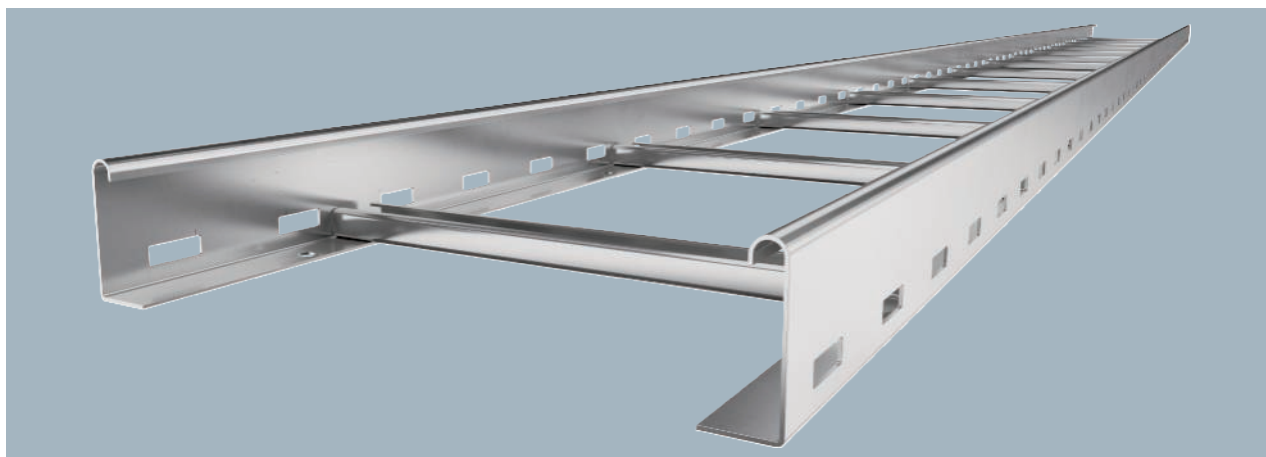
Load diagram, LG 60 VS

- 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



Cable ladder LG 60, 6 m VS

A2 2B



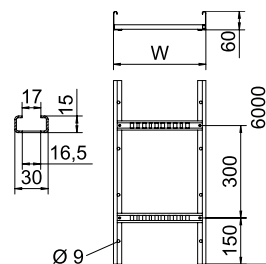
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 620 VS6 A2	200	6	267.067	6208700
LG 630 VS6 A2	300	6	288.733	6208703
LG 640 VS6 A2	400	6	314.400	6208706
LG 650 VS6 A2	500	6	332.400	6208709
LG 660 VS6 A2	600	6	354.066	6208712

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 60 mm with riveted C profile frames, open in an upwards direction (VS version).

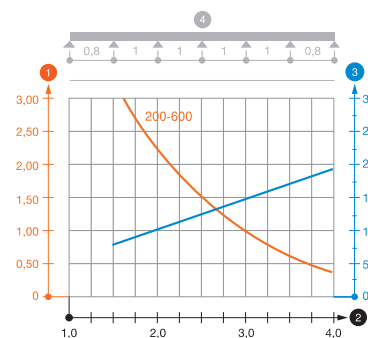
Type	Length mm	Dim. B mm	Rail thick- ness mm	Usable cross- section cm ²	Rung spacing mm
LG 620 VS6 A2	6000	200	1.5	98	300
LG 630 VS6 A2	6000	300	1.5	148	300
LG 640 VS6 A2	6000	400	1.5	198	300
LG 650 VS6 A2	6000	500	1.5	248	300
LG 660 VS6 A2	6000	600	1.5	298	300

Dimensions



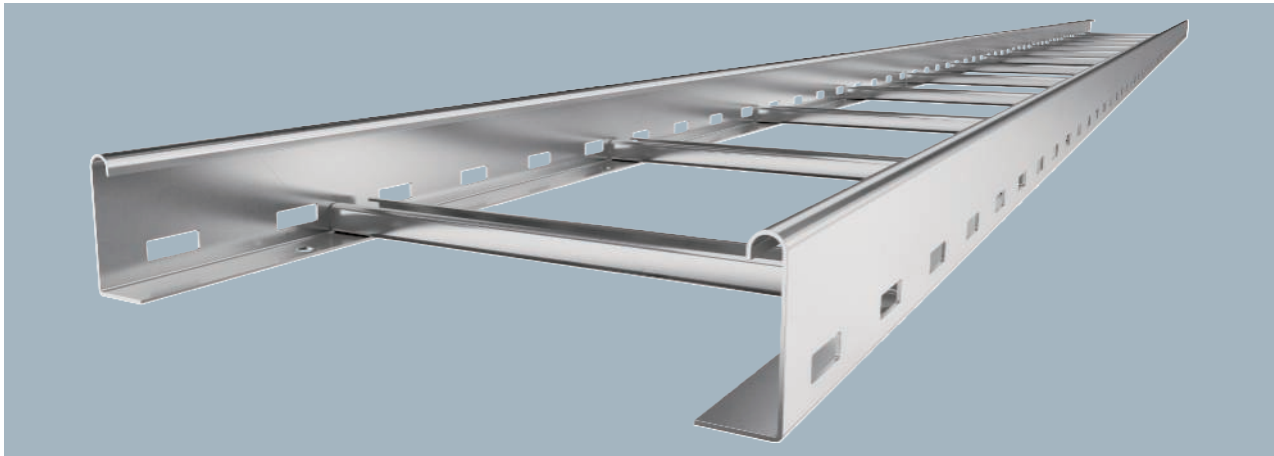
	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	3.5 m kN/m	4.0 m kN/m
LG 620 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45
LG 630 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45
LG 640 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45
LG 650 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45
LG 660 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45

Load



Load diagram, LG 60 VS

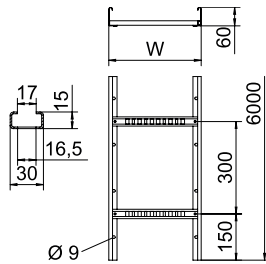
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



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 60 mm with riveted C profile frames, open in an upwards direction (VS version).

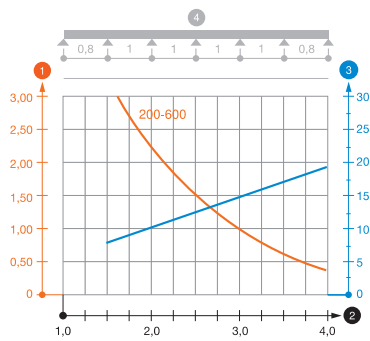
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 620 VS6 A4	200	6	267.733	6101200
LG 630 VS6 A4	300	6	288.733	6101208
LG 640 VS6 A4	400	6	314.400	6101216
LG 650 VS6 A4	500	6	341.666	6101223
LG 660 VS6 A4	600	6	354.000	6101232

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm ²	Rung spacing mm
LG 620 VS6 A4	6000	200	98	300
LG 630 VS6 A4	6000	300	148	300
LG 640 VS6 A4	6000	400	198	300
LG 650 VS6 A4	6000	500	248	300
LG 660 VS6 A4	6000	600	298	300

Load



	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 A4	3.1	2.25	1.5	1.1	0.75	0.45
LG 630 VS6 A4	3.1	2.25	1.5	1.1	0.75	0.45
LG 640 VS6 A4	3.1	2.25	1.5	1.1	0.75	0.45
LG 650 VS6 A4	3.1	2.25	1.5	1.1	0.75	0.45
LG 660 VS6 A4	3.1	2.25	1.5	1.1	0.75	0.45

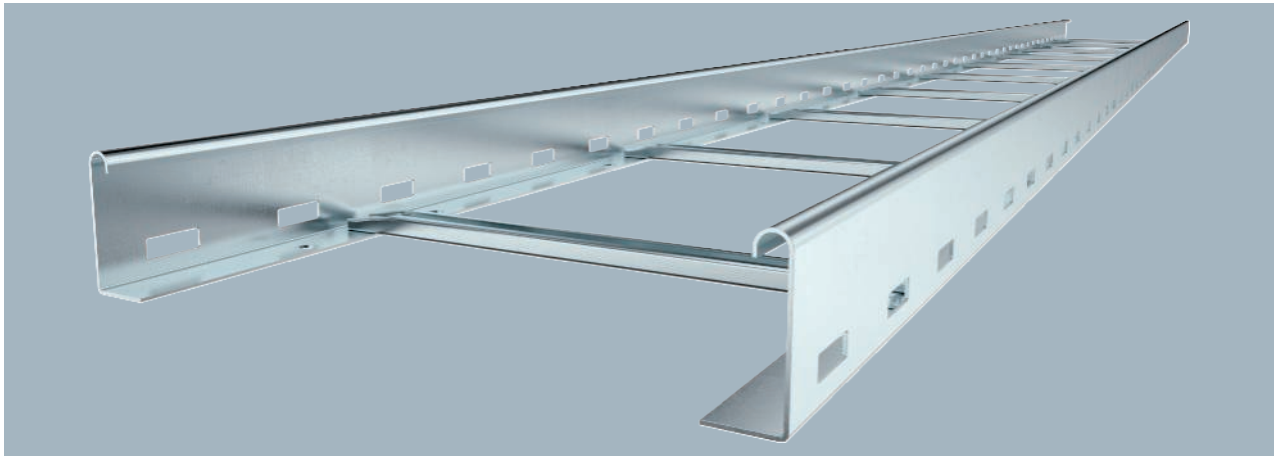
Load diagram, LG 60 VS

- 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 LG 60, 3 m NS

St FS

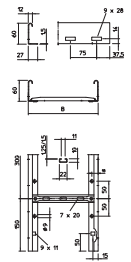


Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 620 NS 3 FS	200	3	247.640	6208506
LG 630 NS 3 FS	300	3	262.070	6208509
LG 640 NS 3 FS	400	3	276.070	6208512
LG 650 NS 3 FS	500	3	301.670	6208515
LG 660 NS 3 FS	600	3	318.200	6208518

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).

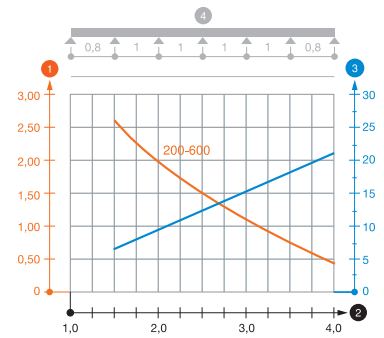
Type	Length mm	Rail thickness mm	Usable cross-section cm ²	Rung spacing mm
LG 620 NS 3 FS	3000	1.5	98	300
LG 630 NS 3 FS	3000	1.5	148	300
LG 640 NS 3 FS	3000	1.5	198	300
LG 650 NS 3 FS	3000	1.5	248	300
LG 660 NS 3 FS	3000	1.5	298	300

Dimensions



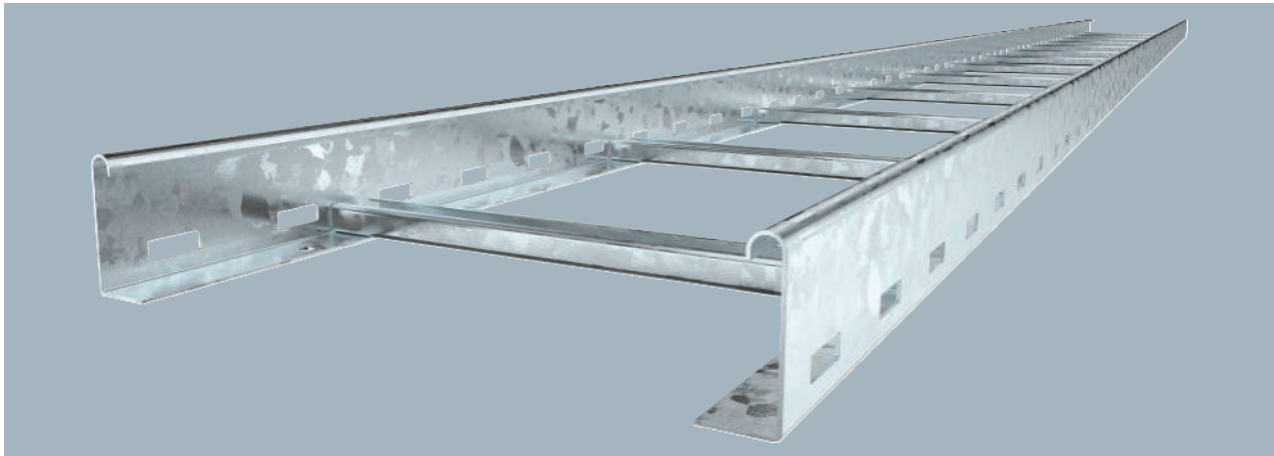
	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LG 620 NS 3 FS	2	1.5	1	0.4
LG 630 NS 3 FS	2	1.5	1	0.4
LG 640 NS 3 FS	2	1.5	1	0.4
LG 650 NS 3 FS	2	1.5	1	0.4
LG 660 NS 3 FS	2	1.5	1	0.4

Load



Load diagram, LG 60 NS

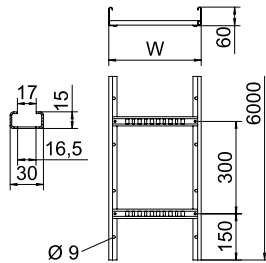
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



The cable ladder is shipped folded up. The surface coating is a coating created in a single-dip method with extra-high zinc thicknesses.
Cable ladder with 60 mm side height with riveted C profile rungs which are open in an upwards direction.

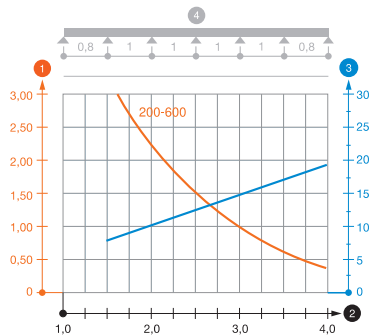
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 630 VS 6FT SO	300	6	294.200	7186363
LG 640 VS 6 FTSO	400	6	342.200	7188633
LG 650 VS 6 FTSO	500	6	398.200	7188640

Dimensions



Type	Length mm	Rail Dim. B mm	Rail thickness mm	Usable cross-section cm ²	Rung spacing mm
LG 630 VS 6FT SO	6000	300	1.5	148	300
LG 640 VS 6 FTSO	6000	400	1.5	198	300
LG 650 VS 6 FTSO	6000	500	1.5	248	300

Load



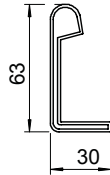
	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LG 630 VS 6FT SO	2.25	1.5	1.1	0.45
LG 640 VS 6 FTSO	2.25	1.5	1.1	0.45
LG 650 VS 6 FTSO	2.25	1.5	1.1	0.45

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



Protective cap 60

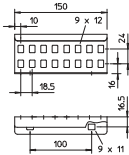
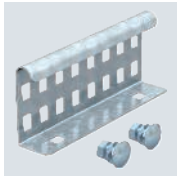


Type	Colour	Pack Pair	Weight kg/100 pairs	Item no.
SKH 60 OR	Pastel orange	40	1.072	6222537

Protective cap to cover cable ladder ends of side height 60 mm.

Straight connector 60

St FS FT

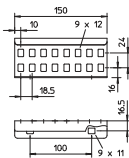
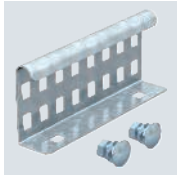


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LVG 60 FS	60	10	22.000	6208840
LVG 60 FT	60	10	23.000	6208843

Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation. The bolt fastening ensures the continuity of the equipotential bonding.

60 FT SOMY straight connector

St FT SO

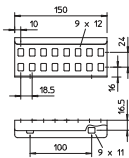
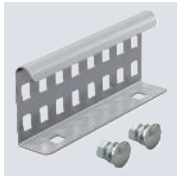


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LVG 60 FT SO	60	20	25.000	7189253

Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation. The adjustable connector ensures the continuity of the equipotential bonding.

Straight connector 60

A2 A4 2B

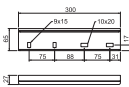


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LVG 60 A2	60	10	22.000	6208846
LVG 60 A4	60	10	20.000	6208835

Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation. The bolt fastening ensures the continuity of the equipotential bonding.

LDVG 60 expansion connector

St FT



Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LDVG 60 FT	60	2	61.700	6208970

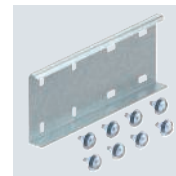
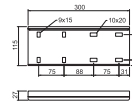
Connector for expansion for compensation of linear thermal expansion. The tightening torques of the self-locking screws on the loose bearing side are 5 Nm.

St FT

Expansion connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LDVG 110 FT	110	2	100.500	6216670

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.

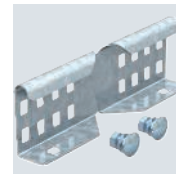
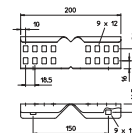


St FS

Angle connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LWVG 60 FS	60	10	24.000	6208895

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.

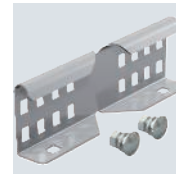
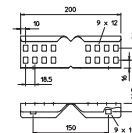


A2 A4 2B

Angle connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LWVG 60 A2	60	10	24.000	6208898
LWVG 60 A4	60	10	24.256	6208891

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.

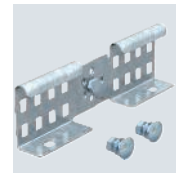
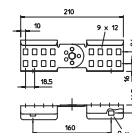


St FS FT FT SO

Adjustable connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LGVG 60 FS	60	10	28.500	6208941
LGVG 60 FT	60	10	29.900	6208944
LGVG 60 FT SO	60	10	30.700	7189251

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.
The bolt fastening ensures the continuity of the equipotential bonding.

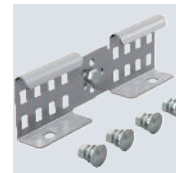
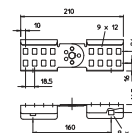


A2 A4 2B

Adjustable connector 60

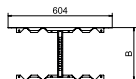
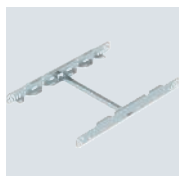
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LGVG 60 A2	60	10	28.500	6208947
LGVG 60 A4	60	10	28.500	6208932

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.
The bolt fastening ensures the continuity of the equipotential bonding.



Multifunctional connector 60

St FS FT

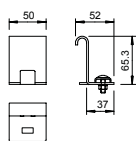


Type	Dim. B mm	Side height mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LMFV 620 FS	200	60	1.50	1	123.200	6225710
LMFV 630 FS	300	60	1.50	1	129.700	6225712
LMFV 640 FS	400	60	1.50	1	136.200	6225714
LMFV 650 FS	500	60	1.50	1	142.800	6225716
LMFV 660 FS	600	60	1.50	1	149.300	6225718
LMFV 620 FT	200	60	1.50	1	130.600	6225730
LMFV 630 FT	300	60	1.50	1	137.500	6225732
LMFV 640 FT	400	60	1.50	1	144.400	6225734
LMFV 650 FT	500	60	1.50	1	151.300	6225736
LMFV 660 FT	600	60	1.50	1	158.200	6225738

Multifunctional connector for joining cable ladders with a side height of 60 mm. Symmetrical and asymmetrical reductions, infinitely-adjustable bends between 0–60° and add-on tees can be created.

Connection piece 60

St FS FT

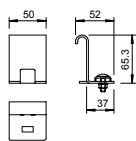


Type	Pack Piece	Weight kg/100 pc.	Item no.
LAS 60 FS	10	13.000	6221351
LAS 60 FT	10	13.600	6221378

Connector for creation of branches at the same height at a later date.
To increase the cable supporting surface, use a conjunction of corner plates of type LEB.

Connector 60

A2 2B

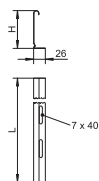


Type	Pack Piece	Weight kg/100 pc.	Item no.
LAS 60 A2	10	13.000	6221386

Connector for creation of branches at the same height at a later date.
To increase the cable supporting surface, use a conjunction of corner plates of type LEB.

Separating retainer 45

St FS DD

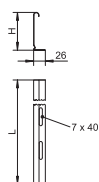


Type	Dim. H mm	Metal thickness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 45 FS	45	0.75	3000	3	46.700	6062033
TSG 45 DD	45	0.75	3000	3	46.812	6062321

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

Separating retainer 45

A2 A4 2B



Type	Dim. H mm	Metal thickness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 45 A2	45	0.75	3000	3	49.850	6062025
TSG 45 A4	45	0.75	3000	3	49.850	6062028

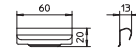
Separating retainer for separation of cables of different voltages or functions.

VA 2B

Separating retainer connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

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

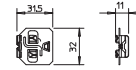


VA 2B

Hold-down clamp for separating retainer fastening

Type	Pack Piece	Weight kg/100 pc.	Item no.
KS KL A2	30	0.512	6062284

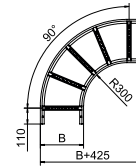
Hold-down clamp for screwless fastening of the separating retainer in cable ladders.



St FS FT

90° bend 60

Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LB 90 620 R3 FS	200	1.5	1	254.500	6225042
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	458.600	6225048
LB 90 660 R3 FS	600	1.5	1	524.600	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	492.600	6225068
LB 90 660 R3 FT	600	1.5	1	562.700	6225070

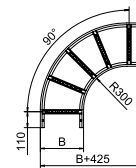


90° bend, horizontal, with welded rung for all cable ladder types of 60 mm side height. Connectors should be ordered separately and in the appropriate quantity.

A2 A4 2B

90° bend 60

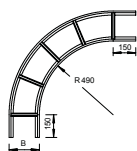
Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LB 90 620 R3 A2	200	1.5	1	257.800	6225082
LB 90 630 R3 A2	300	1.5	1	322.300	6225084
LB 90 640 R3 A2	400	1.5	1	373.400	6225086
LB 90 650 R3 A2	500	1.5	1	458.600	6225088
LB 90 660 R3 A2	600	1.5	1	524.600	6225090
LB 90 620 R3 A4	200	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	458.600	6225108
LB 90 660 R3 A4	600	1.5	1	524.600	6225110



90° bend, horizontal, with welded rung for all cable ladder types of 60 mm side height. Connectors should be ordered separately and in the appropriate quantity.



90° bend VS 60

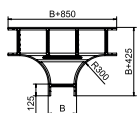
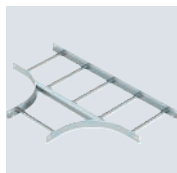


Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
LBI 90 620 VS A2	200	1	358.000	7160046
LBI 90 630 VS A2	300	1	412.000	7160054
LBI 90 640 VS A2	400	1	497.000	7160062
LBI 90 650 VS A2	500	1	554.900	7160089
LBI 90 660 VS A2	600	1	664.000	7160097

90° bend, horizontal, for cable ladders with VS rungs and a side height of 60 mm.
Connectors should be ordered separately and in the appropriate quantity.

T piece 60

St FS FT

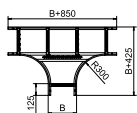


Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LT 620 R3 FS	200	1.5	1	468.700	6225210
LT 630 R3 FS	300	1.5	1	531.000	6225212
LT 640 R3 FS	400	1.5	1	619.700	6225214
LT 650 R3 FS	500	1.5	1	688.600	6225216
LT 660 R3 FS	600	1.5	1	757.400	6225218
LT 620 R3 FT	200	1.5	1	494.800	6225230
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

T piece, horizontal, with welded rung for all cable ladder types of 60 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

T piece 60

A2 A4 2B

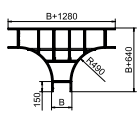
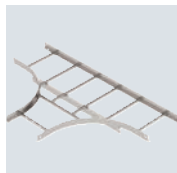


Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LT 620 R3 A2	200	1.5	1	474.600	6225250
LT 630 R3 A2	300	1.5	1	537.800	6225252
LT 640 R3 A2	400	1.5	1	627.700	6225254
LT 650 R3 A2	500	1.5	1	697.400	6225256
LT 660 R3 A2	600	1.5	1	767.200	6225258
LT 620 R3 A4	200	1.5	1	480.600	6225270
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

T piece, horizontal, with welded rung for all cable ladder types of 60 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

T piece VS 60

A2 2B



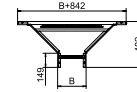
Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
LT 620 VS A2	200	1	680.000	7162022
LT 630 VS A2	300	1	795.000	7162049
LT 640 VS A2	400	1	879.000	7162057
LT 650 VS A2	500	1	962.000	7162073
LT 660 VS A2	600	1	1,104.000	7162081

Tee, horizontal, for cable ladders with medium-duty rungs (VS) and a side height of 60 mm.
Connectors should be ordered separately and in the appropriate quantity.

A2 A4 2B

Add-on tee 60

Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LAA 620 R3 A2	200	1.5	1	304.000	6225882
LAA 630 R3 A2	300	1.5	1	326.000	6225884
LAA 640 R3 A2	400	1.5	1	348.000	6225886
LAA 650 R3 A2	500	1.5	1	371.000	6225888
LAA 660 R3 A2	600	1.5	1	393.000	6225890
LAA 620 R3 A4	200	1.5	1	304.000	6225894
LAA 630 R3 A4	300	1.5	1	326.000	6225896
LAA 640 R3 A4	400	1.5	1	348.000	6225898
LAA 650 R3 A4	500	1.5	1	371.000	6225900
LAA 660 R3 A4	600	1.5	1	393.000	6225902

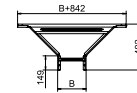


Mounting/branch with welded rung for use in the cable ladder types with a side height of 60 mm.
Connectors should be ordered separately and in the appropriate quantity.

St FS FT

Add-on tee 60

Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LAA 620 R3 FS	200	1.5	1	306.000	6225850
LAA 630 R3 FS	300	1.5	1	328.000	6225852
LAA 640 R3 FS	400	1.5	1	351.000	6225854
LAA 650 R3 FS	500	1.5	1	373.000	6225856
LAA 660 R3 FS	600	1.5	1	395.000	6225858
LAA 620 R3 FT	200	1.5	1	316.000	6225870
LAA 630 R3 FT	300	1.5	1	339.000	6225872
LAA 640 R3 FT	400	1.5	1	363.000	6225874
LAA 650 R3 FT	500	1.5	1	387.000	6225876
LAA 660 R3 FT	600	1.5	1	410.000	6225878

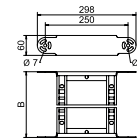


Mounting/branch with welded rung for use in the cable ladder types with a side height of 60 mm.
Connectors should be ordered separately and in the appropriate quantity.

St FS FT

Adjustable bend element 60

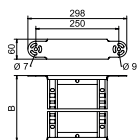
Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LGBE 620 FS	200	1.5	1	84.000	6225450
LGBE 630 FS	300	1.5	1	97.000	6225452
LGBE 640 FS	400	1.5	1	109.900	6225454
LGBE 650 FS	500	1.5	1	122.900	6225456
LGBE 660 FS	600	1.5	1	135.900	6225458
LGBE 620 FT	200	1.5	1	89.000	6225470
LGBE 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



Adjustable bend element with welded rung for use in the cable ladder types with a side height of 60 mm.



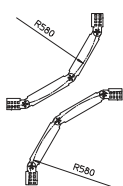
Adjustable bend element 60



Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
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

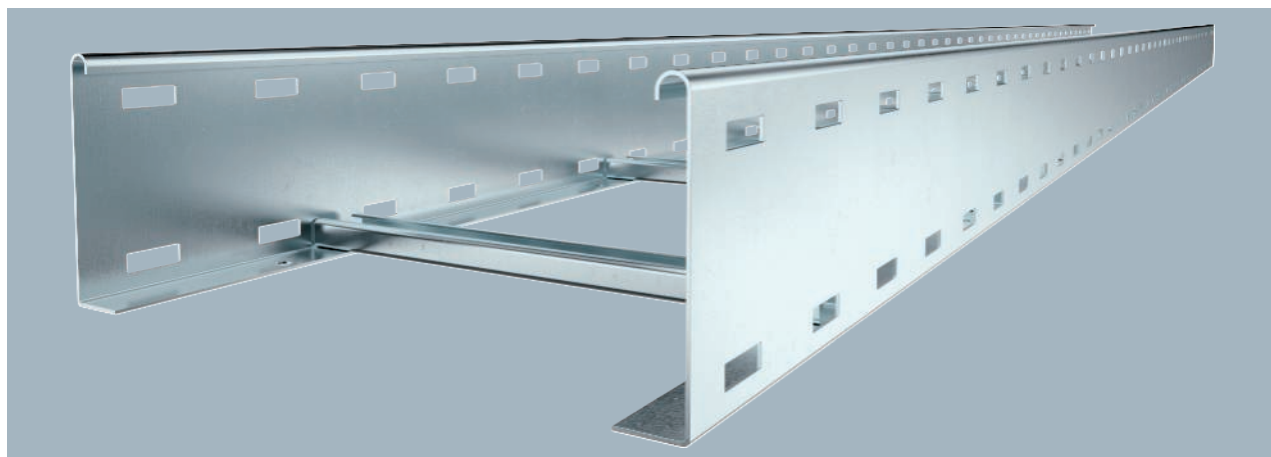
Adjustable bend element with welded rung for use in cable ladder types with a side height of 60 mm.

Articulated bend, vertical, VS 60



Type	Width mm	Pack Piece	Weight kg/100 pc.	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

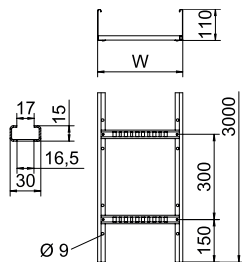
90° adjustable vertical bend, for cable ladders with medium-duty rung (VS) and a side height of 60 mm. The fitting is shipped in an unmounted state including adjustable connectors and the appropriate bolts.



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.

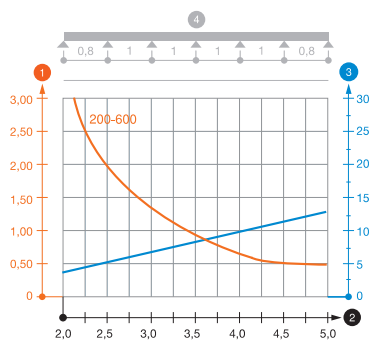
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 112 VS 3 FS	200	3	396.600	6216404
LG 113 VS 3 FS	300	3	396.600	6216407
LG 114 VS 3 FS	400	3	422.267	6216410
LG 115 VS 3 FS	500	3	440.267	6216413
LG 116 VS 3 FS	600	3	462.000	6216416

Dimensions



Type	Length mm	Dim. B mm	Rail thickness mm	Usable 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

Load



	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

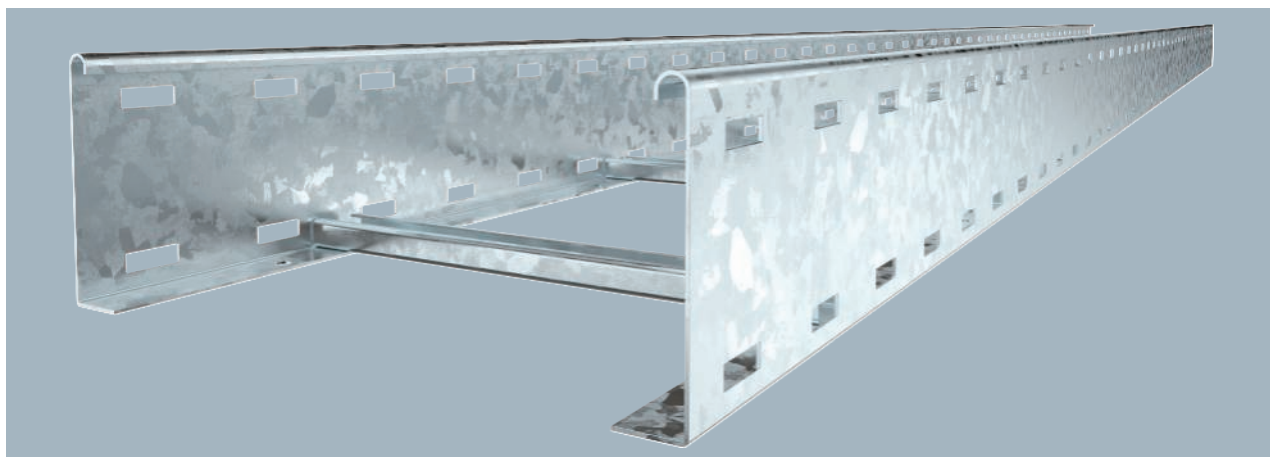
Load diagram, cable ladder, type LG 110 VS

- 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



Cable ladder LG 110, 3 m VS

St FT



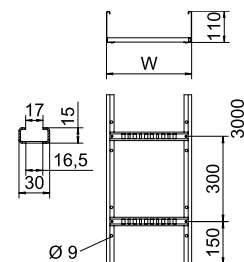
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 112 VS 3 FT	200	3	400.000	6216423
LG 113 VS 3 FT	300	3	423.000	6216426
LG 114 VS 3 FT	400	3	446.000	6216429
LG 115 VS 3 FT	500	3	469.533	6216432
LG 116 VS 3 FT	600	3	500.000	6216435

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.

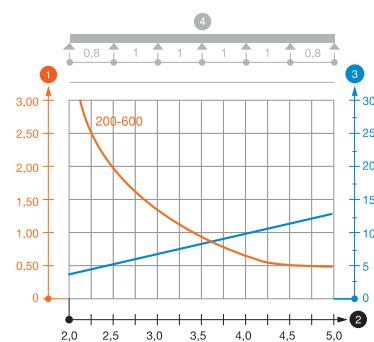
Type	Length mm	Dim. B mm	Rail thick- ness mm	Usable cross- section cm ²	Rung spacing mm
LG 112 VS 3 FT	3000	200	1.5	188	300
LG 113 VS 3 FT	3000	300	1.5	283	300
LG 114 VS 3 FT	3000	400	1.5	378	300
LG 115 VS 3 FT	3000	500	1.5	475	300
LG 116 VS 3 FT	3000	600	1.5	568	300

Dimensions



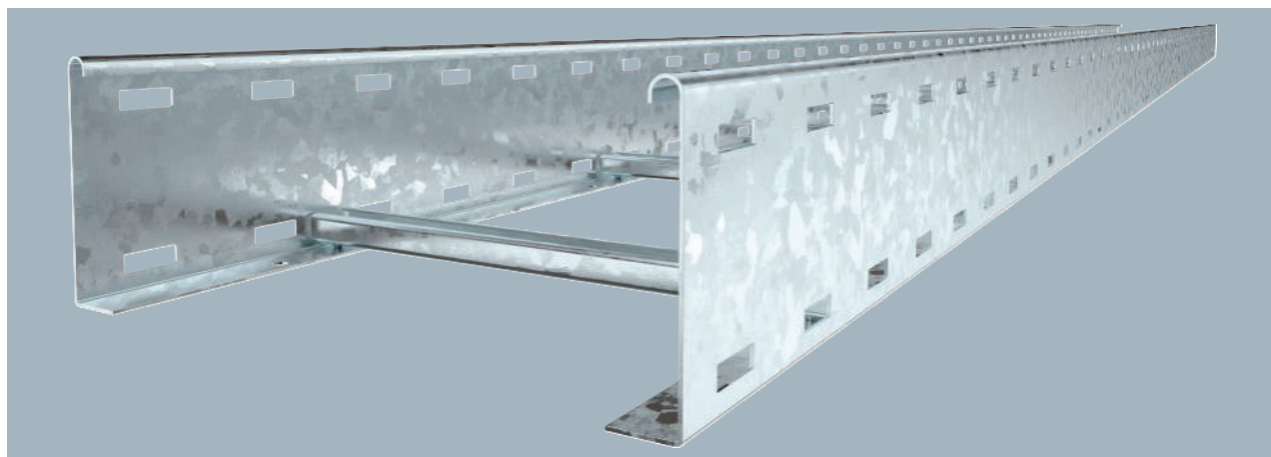
	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m
LG 112 VS 3 FT	3.1	1.4	0.65	0.5
LG 113 VS 3 FT	3.1	1.4	0.65	0.5
LG 114 VS 3 FT	3.1	1.4	0.65	0.5
LG 115 VS 3 FT	3.1	1.4	0.65	0.5
LG 116 VS 3 FT	3.1	1.4	0.65	0.5

Load



Load diagram, cable ladder, type LG 110 VS

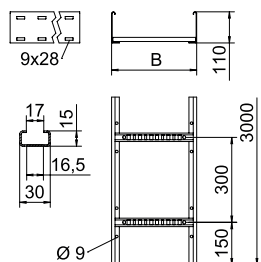
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



Cable ladder with 110 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamps, type LKS 40. The slot dimension of the frame is 16.5 mm and the appropriate clamp clip is type 2056.

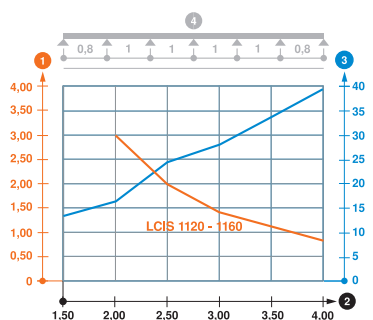
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LCIS 1120 6 FT	200	6	399.200	6209820
LCIS 1130 6 FT	300	6	422.534	6209822
LCIS 1140 6 FT	400	6	446.200	6209824
LCIS 1145 6 FT	450	6	459.534	6209825
LCIS 1150 6 FT	500	6	469.867	6209826
LCIS 1160 6 FT	600	6	491.670	6209828

Dimensions



Type	Length mm	Dim. B mm	Rail thick- ness mm	Usable cross- section cm ²	Rung spacing mm
LCIS 1120 6 FT	6000	200	1.5	180	300
LCIS 1130 6 FT	6000	300	1.5	270	300
LCIS 1140 6 FT	6000	400	1.5	360	300
LCIS 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



	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LCIS 1120 6 FT	3	2	1.4	0.8
LCIS 1130 6 FT	3	2	1.4	0.8
LCIS 1140 6 FT	3	2	1.4	0.8
LCIS 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

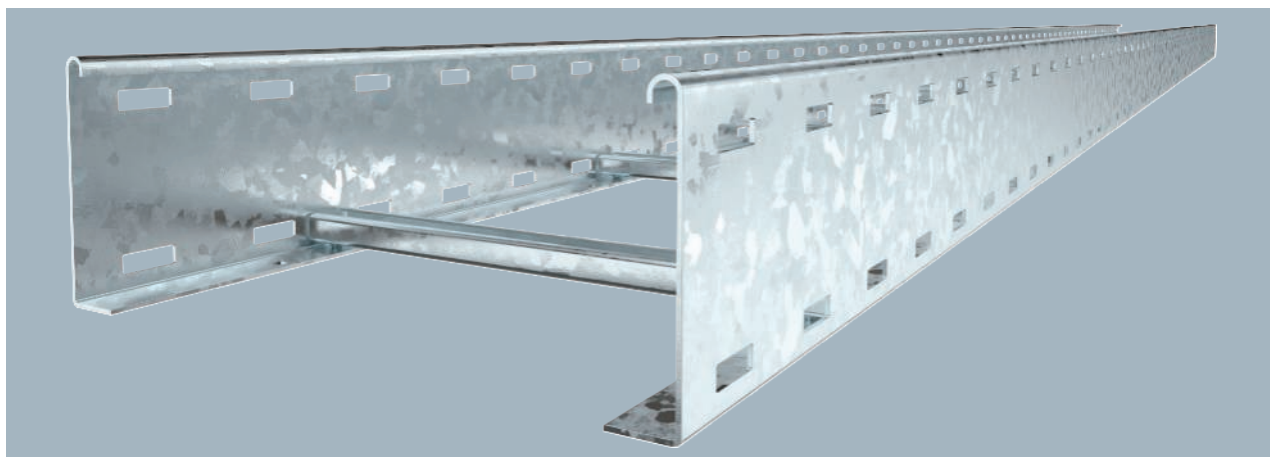
Load diagram, cable ladder, type LCIS 110

- 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 110, 3 m C30

St FT

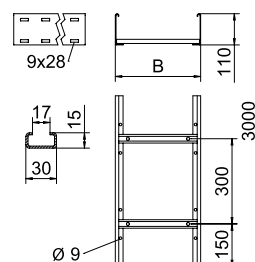


Type	Width mm	Pack m	Weight kg/100 m	Item no.
SLCS 1120 3 FT	200	3	521.800	6207302
SLCS 1130 3 FT	300	3	555.800	6207304
SLCS 1140 3 FT	400	3	589.467	6207306
SLCS 1145 3 FT	450	3	612.800	6207308
SLCS 1150 3 FT	500	3	623.133	6207310
SLCS 1160 3 FT	600	3	656.800	6207312
SLCS 1175 3 FT	750	3	707.467	6207314
SLCS 1180 3 FT	800	3	724.133	6207316
SLCS 1190 3 FT	900	3	758.133	6207318
SLCS 11100 3 FT	1000	3	791.800	6207320
SLCS 11120 3 FT	1200	3	859.133	6207322

Cable ladder with 110 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamps, type LKS 40. The slot dimension of the frame is 16.5 mm and the appropriate clamp clip is type 2056.

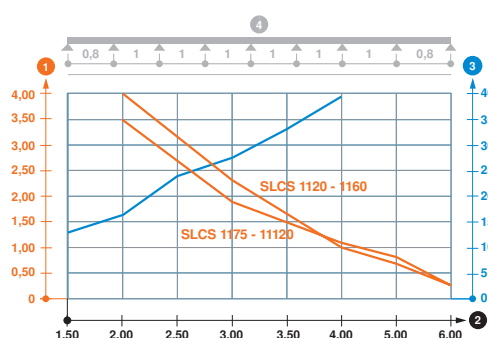
Type	Length mm	Dim. B mm	Rail thick- ness mm	Usable cross- section cm ²	Rung spacing mm
SLCS 1120 3 FT	3000	200	2	180	300
SLCS 1130 3 FT	3000	300	2	270	300
SLCS 1140 3 FT	3000	400	2	360	300
SLCS 1145 3 FT	3000	450	2	405	300
SLCS 1150 3 FT	3000	500	2	450	300
SLCS 1160 3 FT	3000	600	2	540	300
SLCS 1175 3 FT	3000	750	2	675	300
SLCS 1180 3 FT	3000	800	2	720	300
SLCS 1190 3 FT	3000	900	2	810	300
SLCS 11100 3 FT	3000	1000	2	900	300
SLCS 11120 3 FT	3000	1100	2	1180	300

Dimensions



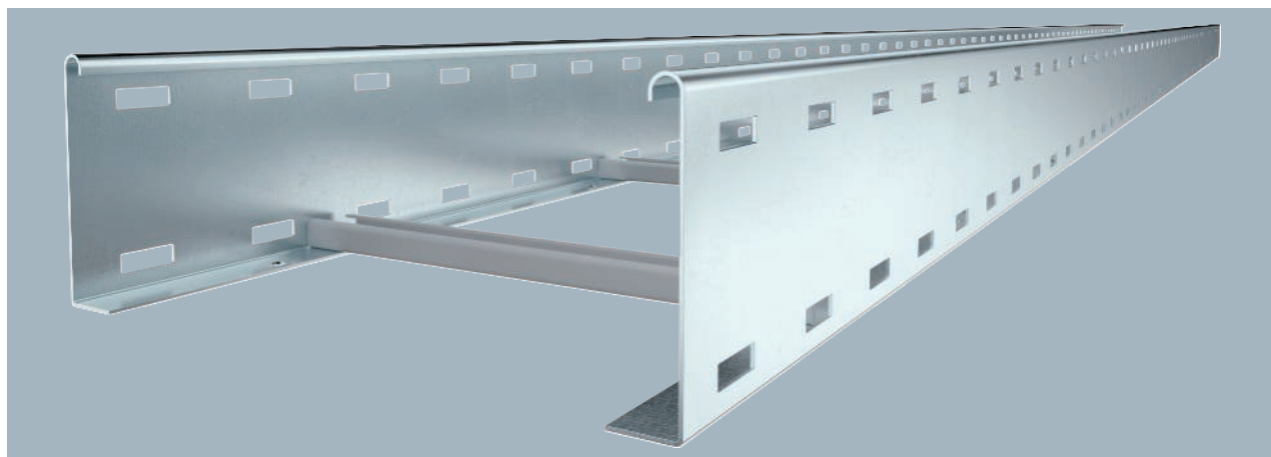
	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m
SLCS 1120 3 FT	4	2.3	1	0.7	0.25
SLCS 1130 3 FT	4	2.3	1	0.7	0.25
SLCS 1140 3 FT	4	2.3	1	0.7	0.25
SLCS 1145 3 FT	4	2.3	1	0.7	0.25
SLCS 1150 3 FT	4	2.3	1	0.7	0.25
SLCS 1160 3 FT	4	2.3	1	0.7	0.25
SLCS 1175 3 FT	3.5	1.9	1	0.8	0.25
SLCS 1180 3 FT	3.5	1.9	1	0.8	0.25
SLCS 1190 3 FT	3.5	1.9	1	0.8	0.25
SLCS 11100 3 FT	3.5	1.9	1	0.8	0.25
SLCS 11120 3 FT	3.5	1.9	1	0.8	0.25

Load



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

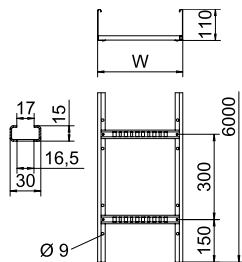


The cable ladder is shipped folded up. You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 110 mm with riveted C profile rungs, open in an upwards direction.

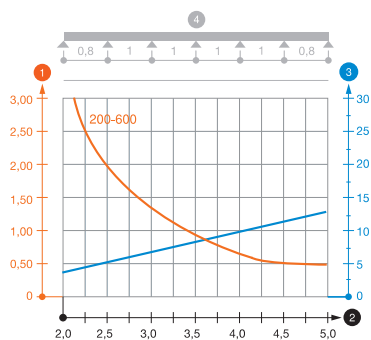
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 112 VS 6 FS	200	6	374.966	6216442
LG 113 VS 6 FS	300	6	396.633	6216445
LG 114 VS 6 FS	400	6	422.300	6216448
LG 115 VS 6 FS	500	6	440.300	6216451
LG 116 VS 6 FS	600	6	461.967	6216454

Dimensions



Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm ²	Rung spacing mm
LG 112 VS 6 FS	6000	200	1.5	188	300
LG 113 VS 6 FS	6000	300	1.5	283	300
LG 114 VS 6 FS	6000	400	1.5	378	300
LG 115 VS 6 FS	6000	500	1.5	475	300
LG 116 VS 6 FS	6000	600	1.5	568	300

Load



	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m
LG 112 VS 6 FS	3.1	1.4	0.65	0.5
LG 113 VS 6 FS	3.1	1.4	0.65	0.5
LG 114 VS 6 FS	3.1	1.4	0.65	0.5
LG 115 VS 6 FS	3.1	1.4	0.65	0.5
LG 116 VS 6 FS	3.1	1.4	0.65	0.5

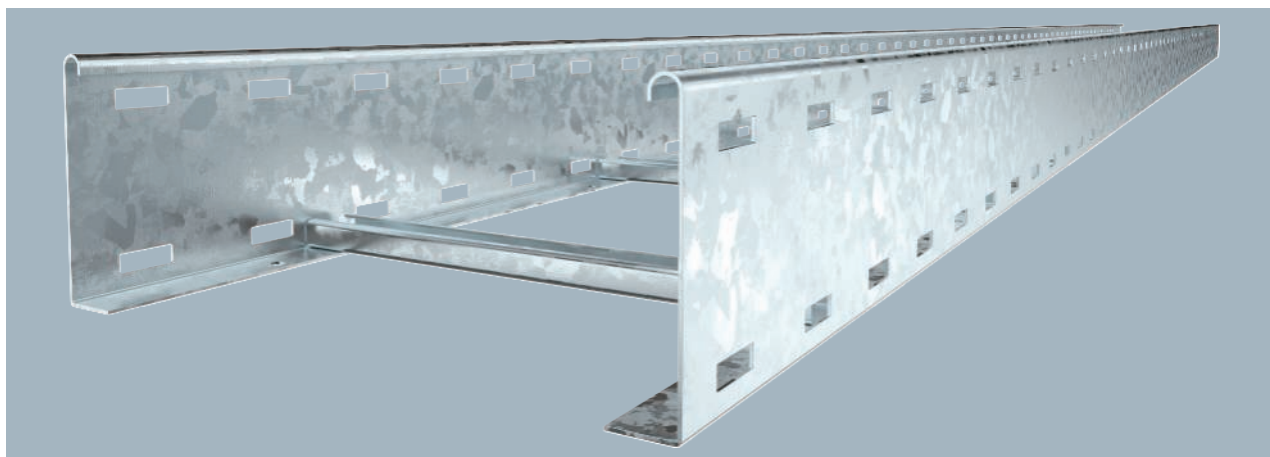
Load diagram, cable ladder, type LG 110 VS

- 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



Cable ladder LG 110, 6 m VS

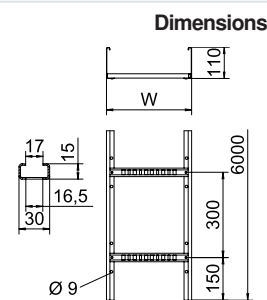
St FT



Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 112 VS 6 FT	200	6	399.867	6216465
LG 113 VS 6 FT	300	6	422.833	6216468
LG 114 VS 6 FT	400	6	445.867	6216471
LG 115 VS 6 FT	500	6	469.533	6216474
LG 116 VS 6 FT	600	6	500.200	6216477

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.

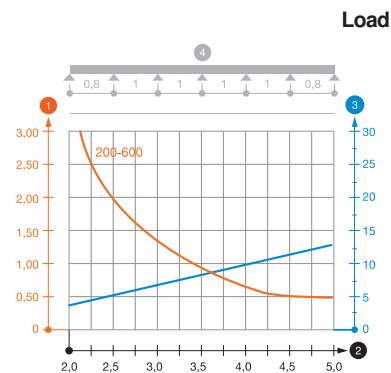
Type	Length mm	Dim. B mm	Rail thick- ness mm	Usable cross- section cm ²	Rung spacing mm
LG 112 VS 6 FT	6000	200	1.5	188	300
LG 113 VS 6 FT	6000	300	1.5	283	300
LG 114 VS 6 FT	6000	400	1.5	378	300
LG 115 VS 6 FT	6000	500	1.5	475	300
LG 116 VS 6 FT	6000	600	1.5	568	300

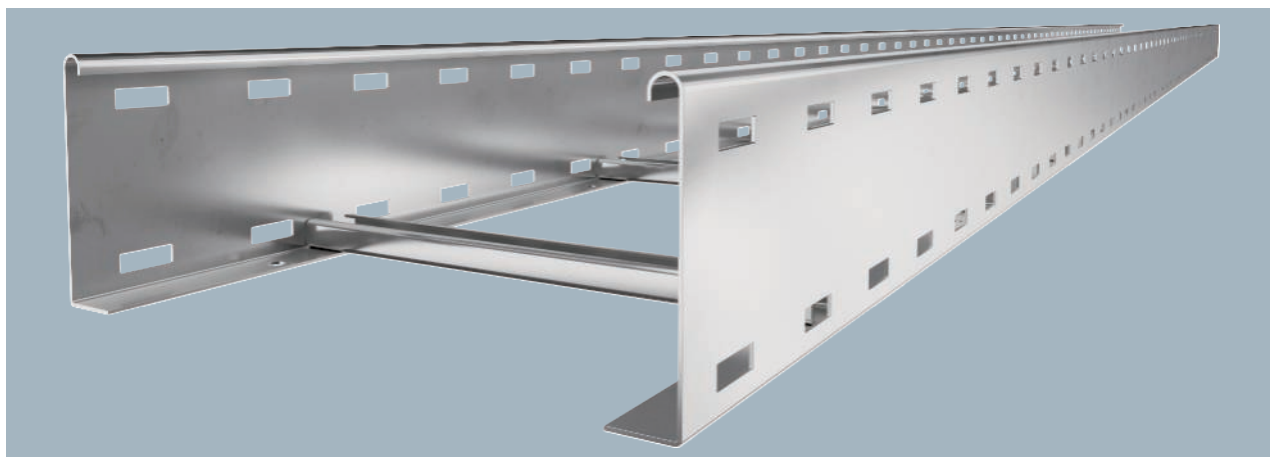


Type	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m
LG 112 VS 6 FT	3.1	1.4	0.65	0.5
LG 113 VS 6 FT	3.1	1.4	0.65	0.5
LG 114 VS 6 FT	3.1	1.4	0.65	0.5
LG 115 VS 6 FT	3.1	1.4	0.65	0.5
LG 116 VS 6 FT	3.1	1.4	0.65	0.5

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

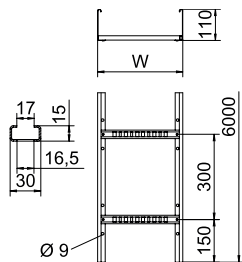




The cable ladder is shipped folded up. You can find the appropriate U clamp of type 2056 in the vertical ladder systems chapter. Cable ladder with perforated side rail of side height 110 mm with riveted C profile rungs, open in an upwards direction.

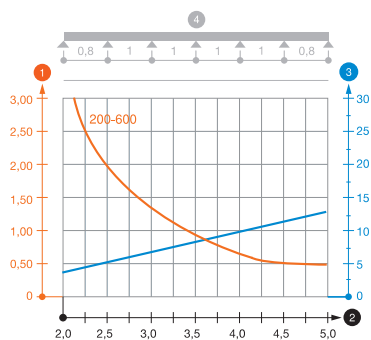
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 112 VS6 A2	200	6	377.666	6216492
LG 113 VS6 A2	300	6	400.000	6216493
LG 114 VS6 A2	400	6	419.500	6216495
LG 115 VS6 A2	500	6	444.500	6216497
LG 116 VS6 A2	600	6	468.666	6216499

Dimensions



Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm ²	Rung spacing mm
LG 112 VS6 A2	6000	200	1.5	188	300
LG 113 VS6 A2	6000	300	1.5	283	300
LG 114 VS6 A2	6000	400	1.5	378	300
LG 115 VS6 A2	6000	500	1.5	475	300
LG 116 VS6 A2	6000	600	1.5	568	300

Load



	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m
LG 112 VS6 A2	3.1	1.3	0.6	0.45
LG 113 VS6 A2	3.1	1.3	0.6	0.45
LG 114 VS6 A2	3.1	1.3	0.6	0.45
LG 115 VS6 A2	3.1	1.3	0.6	0.45
LG 116 VS6 A2	3.1	1.3	0.6	0.45

Load diagram, cable ladder, type LG 110 A2

- 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 110, 6 m VS FT SOMY

St FT SO



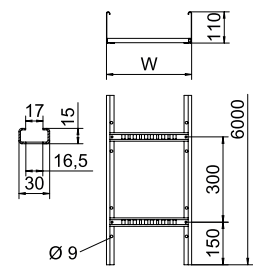
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 114 VS 6FT SO	400	6	461.167	7186395

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 110 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 hold-down clamps, type LKS 60/4. The slot dimension of the rung is 16.5 mm and the appropriate clamp clip is type 2056.

Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm ²	Rung spacing mm
LG 114 VS 6FT SO	6000	400	1.5	378	300

Dimensions

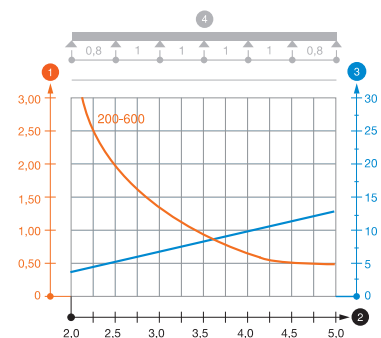


Type	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m
LG 114 VS 6FT SO	3.1	1.4	0.65	0.5

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

Load



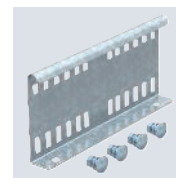
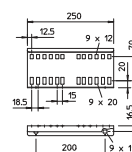
St FS FT

LVG 110 straight connector

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LVG 110 FS	110	10	50.900	6216545
LVG 110 FT	110	10	53.700	6216548

Straight connector as external connector to connect cable ladders and fittings with a side height of 110 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.



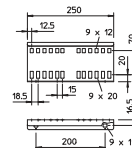
A2 2B

Straight connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LVG 110 A2	110	10	50.900	6216550

Straight connector as external connector to connect cable ladders and fittings with a side height of 110 mm.

The bolt fastening ensures the continuity of the equipotential bonding.



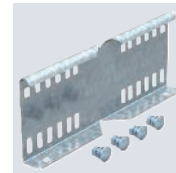
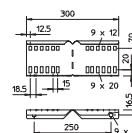
St FS

Angle connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LWVG 110 FS	110	10	48.800	6216587

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.



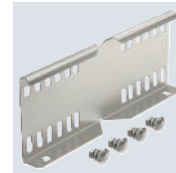
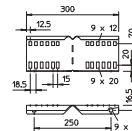
A2 2B

Angle connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LWVG 110 A2	110	10	48.800	6216590

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.



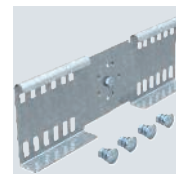
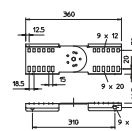
St FS FT

Adjustable connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LGVG 110 FS	110	10	77.900	6216650
LGVG 110 FT	110	10	82.100	6216653

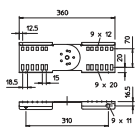
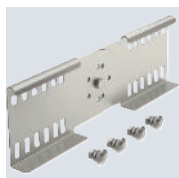
Adjustable connector as internal connector to join cable ladders and fittings with a side height of 110 mm. Angle can be adjusted vertically.

The bolt fastening ensures the continuity of the equipotential bonding.



Articulated connector 110

A2 2B

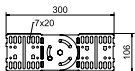
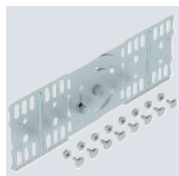


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LGVG 110 A2	110	10	77.400	6216648

Adjustable connector as internal connector to join cable ladders and fittings with a side height of 110 mm. Angle can be adjusted vertically.
The bolt fastening ensures the continuity of the equipotential bonding.

Adjustable connector SM

St FS

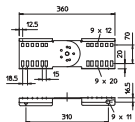
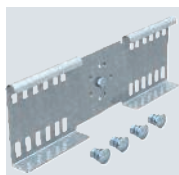


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV110-SM FS	110	10	62.000	7081995

Adjustable connectors as internal connectors to connect cable ladders and fittings of 110 mm side height. Some fastening material and self-locking nut included.

Adjustable connector 110 FT SOMY

St FT SO

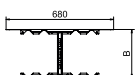
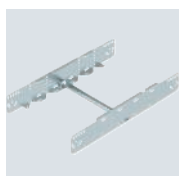


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LGVG 110VS FTSO	110	10	83.800	7190590

Adjustable connector as internal connector to join cable ladders and fittings with a side height of 110 mm. Angle can be adjusted vertically.
The bolt fastening ensures the continuity of the equipotential bonding.

Multifunctional connector 110

St FS FT

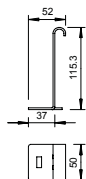


Type	Dim. B mm	Side height mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LMFV 1120 FS	200	110	1.50	1	208.100	6225750
LMFV 1130 FS	300	110	1.50	1	214.600	6225752
LMFV 1140 FS	400	110	1.50	1	221.100	6225754
LMFV 1150 FS	500	110	1.50	1	227.600	6225756
LMFV 1160 FS	600	110	1.50	1	234.000	6225758
LMFV 1120 FT	200	110	1.50	1	221.300	6225770
LMFV 1130 FT	300	110	1.50	1	228.200	6225772
LMFV 1140 FT	400	110	1.50	1	235.100	6225774
LMFV 1145 FT	450	110	1.50	1	238.500	6225776
LMFV 1150 FT	500	110	1.50	1	241.900	6225778
LMFV 1160 FT	600	110	1.50	1	248.800	6225780

Multifunctional connector for joining cable ladders with a side height of 110 mm. Symmetrical and asymmetrical reductions, infinitely-adjustable bends between 0–60° and add-on tees can be created.

Connector 110

St FS FT



Type	Pack Piece	Weight kg/100 pc.	Item no.
LAS 110 FS	10	17.900	6221416
LAS 110 FT	10	18.700	6221424

Connector for creation of branches at the same height at a later date.
To increase the cable supporting surface, use a conjunction of corner plates of type LEB.

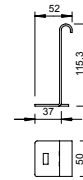


A2 2B

Connector 110

Type	Pack Piece	Weight kg/100 pc.	Item no.
LAS 110 A2	1	18.000	6221432

Connector for creation of branches at the same height at a later date.
To increase the cable supporting surface, use a conjunction of corner plates of type LEB.

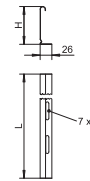


St FS DD

Separating retainer 85

Type	Dim. H mm	Metal thickness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 FS	85	0.75	3000	3	70.233	6062114
TSG 85 DD	85	0.75	3000	3	70.300	6062331

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

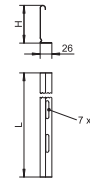


A2 2B

Barrier strip 85

Type	Dim. H mm	Metal thickness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 A2	85	0.75	3000	3	74.958	6062173

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

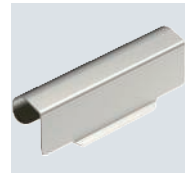
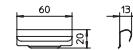


VA 2B

Separating retainer connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

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

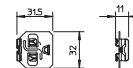


VA 2B

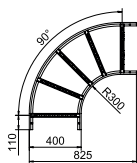
Hold-down clamp for separating retainer fastening

Type	Pack Piece	Weight kg/100 pc.	Item no.
KS KL A2	30	0.512	6062284

Hold-down clamp for screwless fastening of the separating retainer in cable ladders.



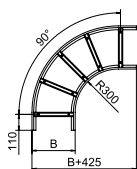
90° bend 110



Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	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

90° bend, horizontal, with welded rung for all cable ladder types of 110 mm side height. Connectors should be ordered separately and in the appropriate quantity.

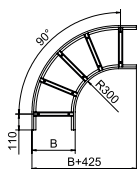
90° bend 110



Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	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

90° bend, horizontal, with welded rung for all cable ladder types of 110 mm side height. Connectors should be ordered separately and in the appropriate quantity.

90° bend 110



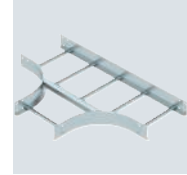
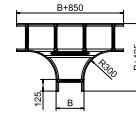
Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLB 90 1145R3 FT	450	2	1	720.700	6225178
SLB 90 1175R3 FT	750	2	1	1,116.100	6225184
SLB 90 1180R3 FT	800	2	1	1,167.900	6225186
SLB 90 1190R3 FT	900	2	1	1,356.500	6225188
SLB90 11100R3 FT	1000	2	1	1,470.000	6225190
SLB90 11120R3 FT	1200	2	1	1,856.200	6225194

90° bend, horizontal, with welded rung for all cable ladder types of 110 mm side height. Connectors should be ordered separately and in the appropriate quantity.

St FS FT

T piece 110

Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	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 1145 R3 FT	450	1.5	1	926.800	6225316
LT 1150 R3 FT	500	1.5	1	963.100	6225318
LT 1160 R3 FT	600	1.5	1	982.900	6225320

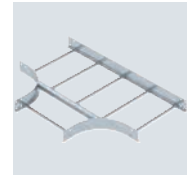
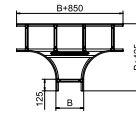


T piece, horizontal, with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

St FT

T piece 110

Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	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

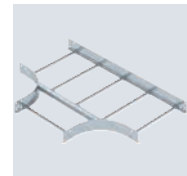
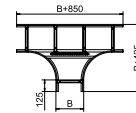


T piece, horizontal, with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

St FT

T piece 110

Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLT 1145 R3 FT	450	2	1	1,150.300	6225356
SLT 1175 R3 FT	750	2	1	1,524.900	6225362
SLT 1180 R3 FT	800	2	1	1,579.500	6225364
SLT 1190 R3 FT	900	2	1	1,690.600	6225366
SLT 11100 R3 FT	1000	2	1	1,801.700	6225368
SLT 11120 R3 FT	1200	2	1	2,092.200	6225372

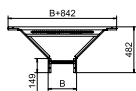


T piece, horizontal, with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.



St FS FT

Add-on tee 110

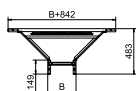


Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LAA 1120 R3 FS	200	1.5	1	389.000	6225910
LAA 1130 R3 FS	300	1.5	1	411.000	6225912
LAA 1140 R3 FS	400	1.5	1	434.000	6225914
LAA 1150 R3 FS	500	1.5	1	457.000	6225916
LAA 1160 R3 FS	600	1.5	1	480.000	6225918
LAA 1120 R3 FT	200	1.5	1	401.000	6225930
LAA 1130 R3 FT	300	1.5	1	426.000	6225932
LAA 1140 R3 FT	400	1.5	1	449.000	6225934
LAA 1145 R3 FT	450	1.5	1	461.000	6225936
LAA 1150 R3 FT	500	1.5	1	472.000	6225938
LAA 1160 R3 FT	600	1.5	1	497.000	6225940

Add-on tee with welded rung for all cable ladder types of 110 mm side height. Connectors should be ordered separately and in the appropriate quantity.

Add-on tee 110

St FT

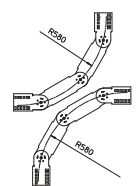


Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLAA 1120 R3 FT	200	2	1	524.000	6225950
SLAA 1130 R3 FT	300	2	1	545.000	6225952
SLAA 1140 R3 FT	400	2	1	587.000	6225954
SLAA 1150 R3 FT	500	2	1	617.000	6225958
SLAA 1160 R3 FT	600	2	1	649.000	6225960
SLAA 1145 R3 FT	450	2	1	602.000	6225956
SLAA 1175 R3 FT	750	2	1	696.000	6225962
SLAA 1180 R3 FT	800	2	1	711.000	6225964
SLAA 1190 R3 FT	900	2	1	743.000	6225966
SLAA 11100 R3 FT	1000	2	1	774.000	6225968
SLAA 11120 R3 FT	1200	2	1	837.000	6225970

Add-on tee with welded rung for all cable ladder types of 110 mm side height. Connectors should be ordered separately and in the appropriate quantity.

Adjustable bend, vertical 110

St FS FT

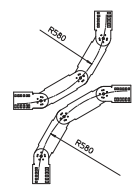


Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
LGBV 115 VS FS	500	1	489.000	6218857
LGBV 112 VS FT	200	1	426.000	6218938
LGBV 113 VS FT	300	1	457.000	6218946
LGBV 114 VS FT	400	1	488.000	6218954
LGBV 115 VS FT	500	1	519.000	6218962
LGBV 116 VS FT	600	1	540.000	6218970

90° adjustable vertical bend, for all cable ladder types with a side height of 110 mm. The fitting is shipped in an unmounted state including adjustable connectors and the appropriate bolts.

Adjustable bend, vertical 110

St FS



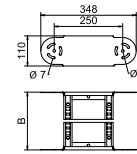
Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
LGBV 112 VS FS	200	1	402.000	6218822
LGBV 113 VS FS	300	1	431.000	6218830
LGBV 114 VS FS	400	1	460.000	6218849
LGBV 116 VS FS	600	1	519.000	6218865

90° adjustable vertical bend, for all cable ladder types with a side height of 110 mm. The fitting is shipped in an unmounted state including adjustable connectors and the appropriate bolts.

St FS FT

Adjustable bend element 110

Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LGBE 1120 FS	200	1.5	1	128.000	6225490
LGBE 1130 FS	300	1.5	1	142.100	6225492
LGBE 1140 FS	400	1.5	1	155.300	6225494
LGBE 1150 FS	500	1.5	1	168.600	6225496
LGBE 1160 FS	600	1.5	1	181.800	6225498
LGBE 1120 FT	200	1.5	1	136.900	6225510
LGBE 1130 FT	300	1.5	1	150.900	6225512
LGBE 1140 FT	400	1.5	1	165.100	6225514
LGBE 1145 FT	450	1.5	1	173.100	6225516
LGBE 1150 FT	500	1.5	1	179.300	6225518
LGBE 1160 FT	600	1.5	1	193.300	6225520

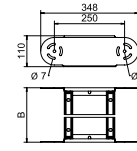


Adjustable bend element with welded rung for use in the cable ladder types with a side height of 110 mm.

St FT

Adjustable bend element 110

Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
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

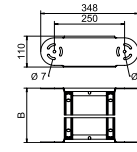


Adjustable bend element, heavy-duty, with welded rung for use in the cable ladder types with a side height of 110 mm.

St FT

Adjustable bend element 110

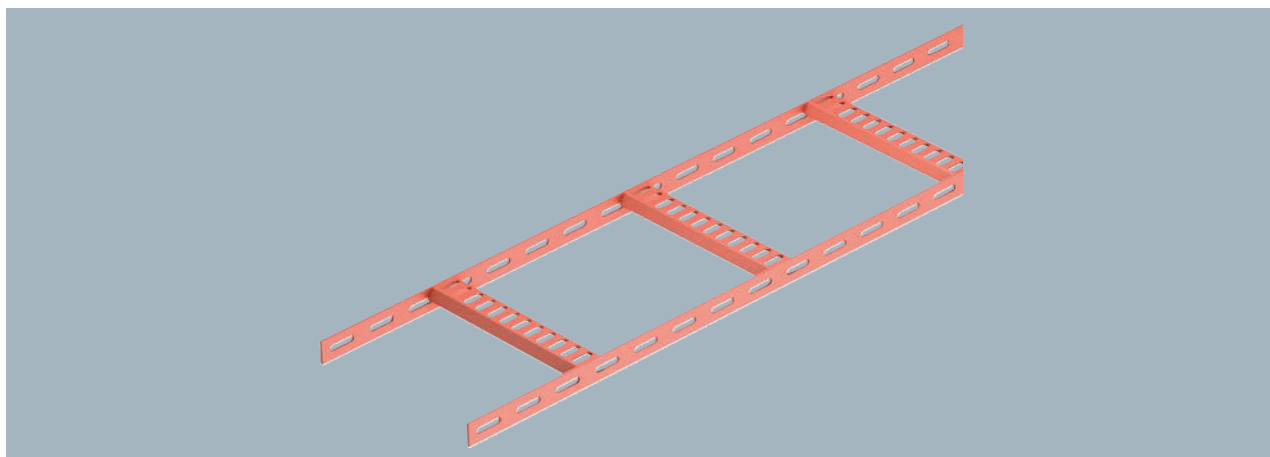
Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLGBE 1145 FT	450	2	1	220.200	6225536
SLGBE 1175 FT	750	2	1	277.000	6225542
SLGBE 1180 FT	800	2	1	286.400	6225544
SLGBE 1190 FT	900	2	1	305.400	6225546
SLGBE 11100 FT	1000	2	1	324.400	6225548
SLGBE 11120 FT	1200	2	1	362.200	6225550



Adjustable bend element, heavy-duty, with welded rung for use in the cable ladder types with a side height of 110 mm.



Cable ladder with trapezoidal rung, 25



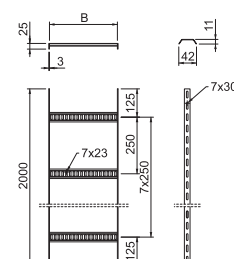
Type	Width mm	Pack m	Weight kg/100 m	Item no.
SL 42 075 SG	75	2	109.000	7097026
SL 42 100 SG	100	2	112.500	7097034
SL 42 150 SG	150	2	119.000	7097042
SL 42 200 SG	200	2	125.500	7097050
SL 42 250 SG	250	2	132.000	7097069
SL 42 300 SG	300	2	139.000	7097077

The shipbuilding cable ladder, including fittings, is also available in stainless steel on request. Powder coating according to RAL colours possible.

Shipbuilding 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.

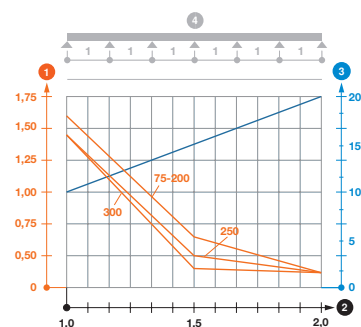
Type	Length mm	Dim. B mm	Side height mm	Rail thick- ness mm
SL 42 075 SG	2000	81	25	3
SL 42 100 SG	2000	106	25	3
SL 42 150 SG	2000	156	25	3
SL 42 200 SG	2000	206	25	3
SL 42 250 SG	2000	256	25	3
SL 42 300 SG	2000	306	25	3

Dimensions



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



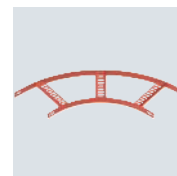
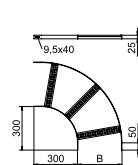
Load diagram, SL42 cable ladder

- 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

St SG

90° bend with trapezoidal rung, 25

Type	Width mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
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

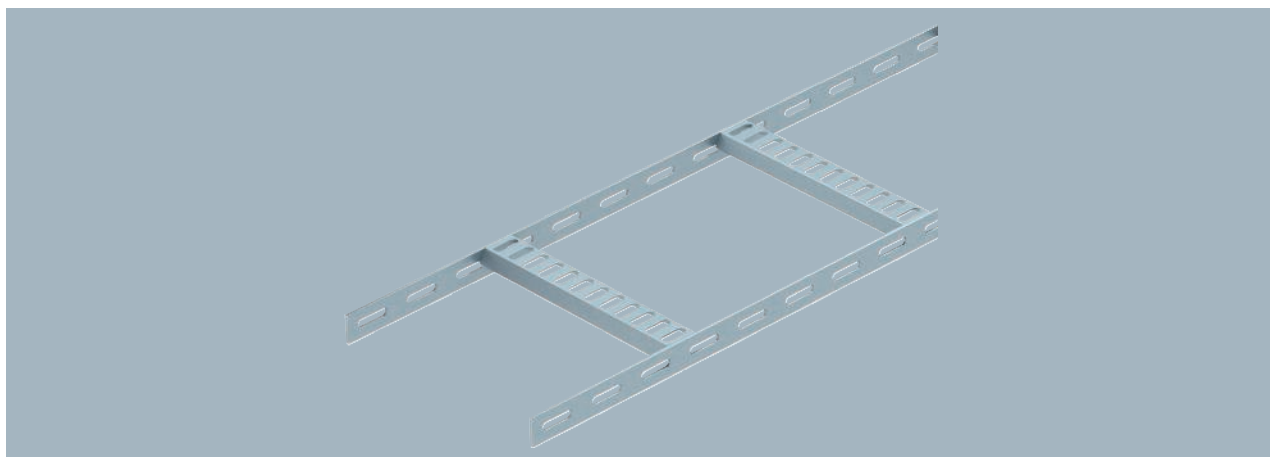


Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladder, type SL 42, with side height of 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



Cable ladder with trapezoidal rung, 25

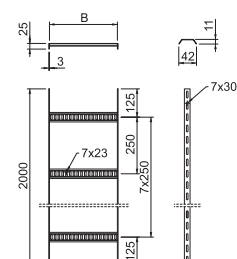


Type	Width mm	Pack m	Weight kg/100 m	Item no.
SL 42 075 FT	75	2	114.000	7097115
SL 42 100 FT	100	2	118.000	7097123
SL 42 150 FT	150	2	125.000	7097131
SL 42 200 FT	200	2	132.500	7097158
SL 42 250 FT	250	2	140.000	7097166
SL 42 300 FT	300	2	147.500	7097174

Shipbuilding 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.

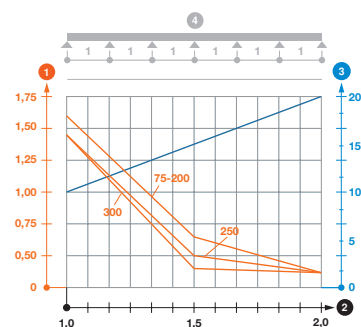
Type	Length mm	Dim. B mm	Side height mm	Rail thickness mm
SL 42 075 FT	2000	81	25	3
SL 42 100 FT	2000	106	25	3
SL 42 150 FT	2000	156	25	3
SL 42 200 FT	2000	206	25	3
SL 42 250 FT	2000	256	25	3
SL 42 300 FT	2000	306	25	3

Dimensions



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

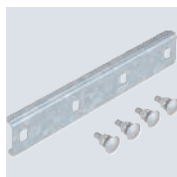
Load



Load diagram, SL42 cable ladder

- 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 25



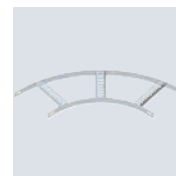
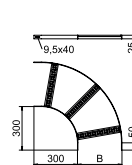
Type	Pack Piece	Weight kg/100 pc.	Item no.
SLV 42 FT	20	11.900	7103540
SLV 42 ALU	20	4.951	7103552

Straight connector to connect cable ladders and fittings with a side height of 25 mm.

St FT

90° bend with trapezoidal rung, 25

Type	Width mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
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	99.000	7098634
SLB 90 42 250 FT	250	3	1	108.900	7098642
SLB 90 42 300 FT	300	3	1	122.000	7098650



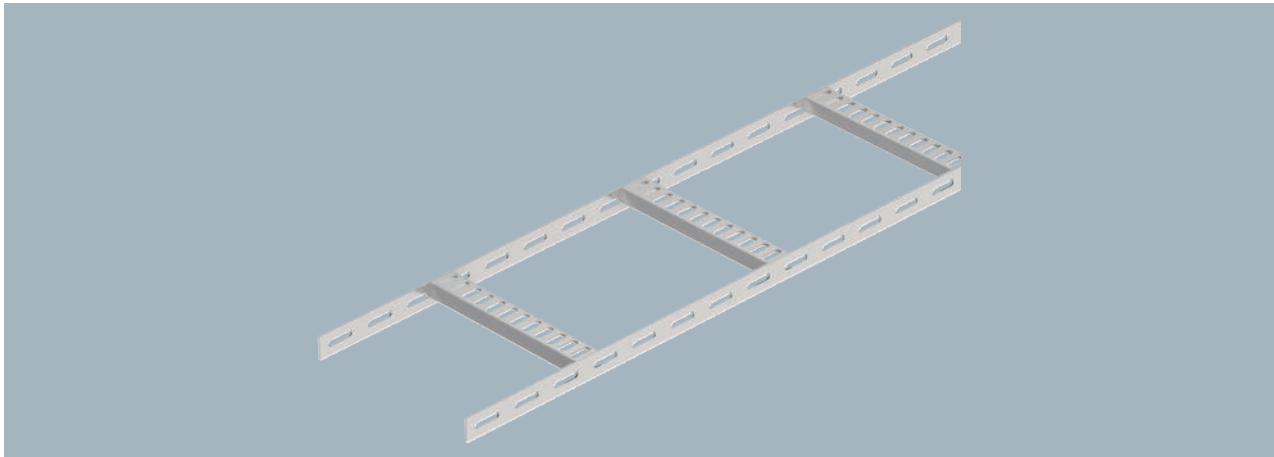
Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, type SL 42, with a side height of 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



Cable ladder with trapezoidal rung, 25

A2 2B

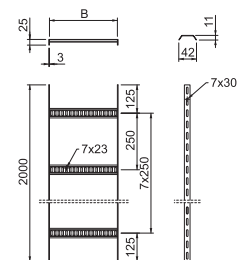


Type	Width mm	Pack m	Weight kg/100 m	Item no.
SL 42 075 A2	75	2	109.000	7097080
SL 42 100 A2	100	2	112.500	7097082
SL 42 150 A2	150	2	119.000	7097084
SL 42 200 A2	200	2	125.500	7097086
SL 42 250 A2	250	2	132.000	7097088
SL 42 300 A2	300	2	139.000	7097090

Shipbuilding 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.

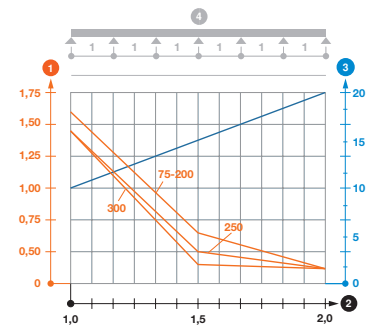
Type	Length mm	Dim. B mm	Side height mm	Rail thickness mm
SL 42 075 A2	2000	81	25	3
SL 42 100 A2	2000	106	25	3
SL 42 150 A2	2000	156	25	3
SL 42 200 A2	2000	206	25	3
SL 42 250 A2	2000	256	25	3
SL 42 300 A2	2000	306	25	3

Dimensions



Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
SL 42 075 A2	1.6	0.65	0.25
SL 42 100 A2	1.6	0.65	0.25
SL 42 150 A2	1.6	0.65	0.25
SL 42 200 A2	1.6	0.65	0.25
SL 42 250 A2	1.45	0.65	0.25
SL 42 300 A2	1.45	0.65	0.25

Load



Load diagram, SL42 cable ladder

- 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 25

Alu A4 2B



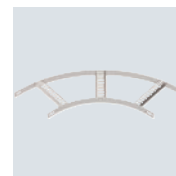
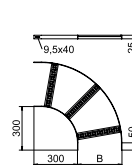
Type	Pack Piece	Weight kg/100 pc.	Item no.
SLV 42 A4	20	11.300	7103560
SLV 42 ALU	20	4.951	7103552

Straight connector to connect cable ladders and fittings with a side height of 25 mm.

A2 2B

90° bend with trapezoidal rung, 25

Type	Width mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
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



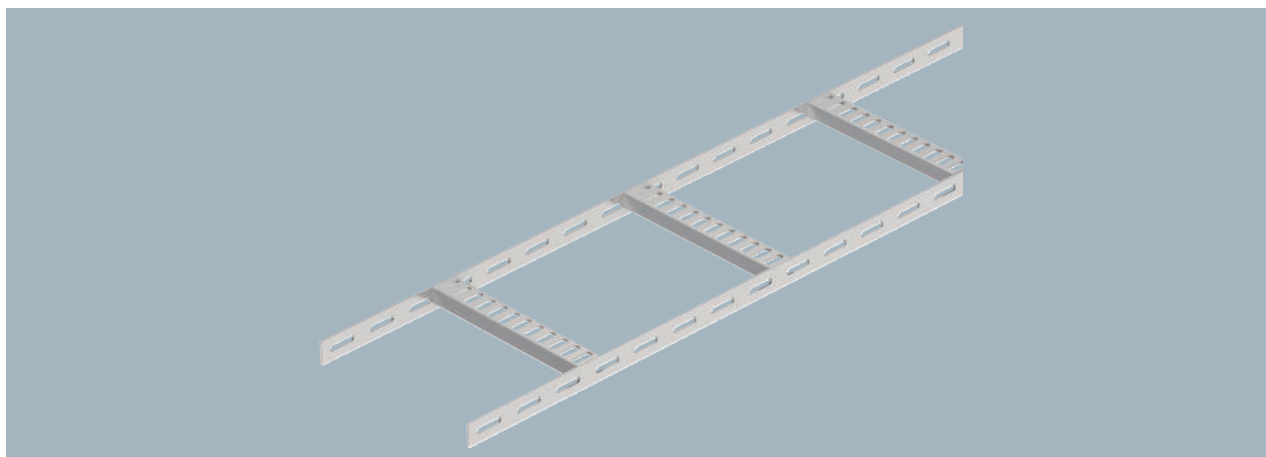
Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, type SL 42, with a side height of 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



Cable ladder with trapezoidal rung, 25

A4 2B

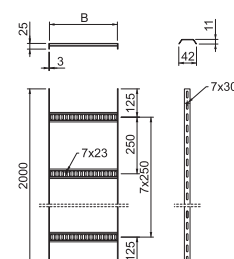


Type	Width mm	Pack m	Weight kg/100 m	Item no.
SL 42 075 A4	75	2	110.850	7099702
SL 42 100 A4	100	2	114.500	7099704
SL 42 150 A4	150	2	120.900	7099706
SL 42 200 A4	200	2	127.600	7099708
SL 42 250 A4	250	2	134.300	7099710
SL 42 300 A4	300	2	140.800	7099712

Shipbuilding 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.

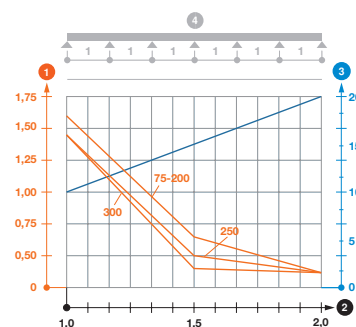
Type	Length mm	Dim. B mm	Side height mm	Rail thickness mm
SL 42 075 A4	2000	81	25	3
SL 42 100 A4	2000	106	25	3
SL 42 150 A4	2000	156	25	3
SL 42 200 A4	2000	206	25	3
SL 42 250 A4	2000	256	25	3
SL 42 300 A4	2000	306	25	3

Dimensions



Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
SL 42 075 A4	1.6	0.65	0.25
SL 42 100 A4	1.6	0.65	0.25
SL 42 150 A4	1.6	0.65	0.25
SL 42 200 A4	1.6	0.65	0.25
SL 42 250 A4	1.45	0.65	0.25
SL 42 300 A4	1.45	0.65	0.25

Load

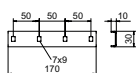


Load diagram, SL42 cable ladder

- 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 25

A4 2B



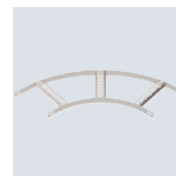
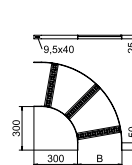
Type	Pack Piece	Weight kg/100 pc.	Item no.
SLV 42 A4	20	11.300	7103560

Straight connector to connect cable ladders and fittings with a side height of 25 mm.

A4 2B

90° bend with trapezoidal rung, 25

Type	Width mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
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



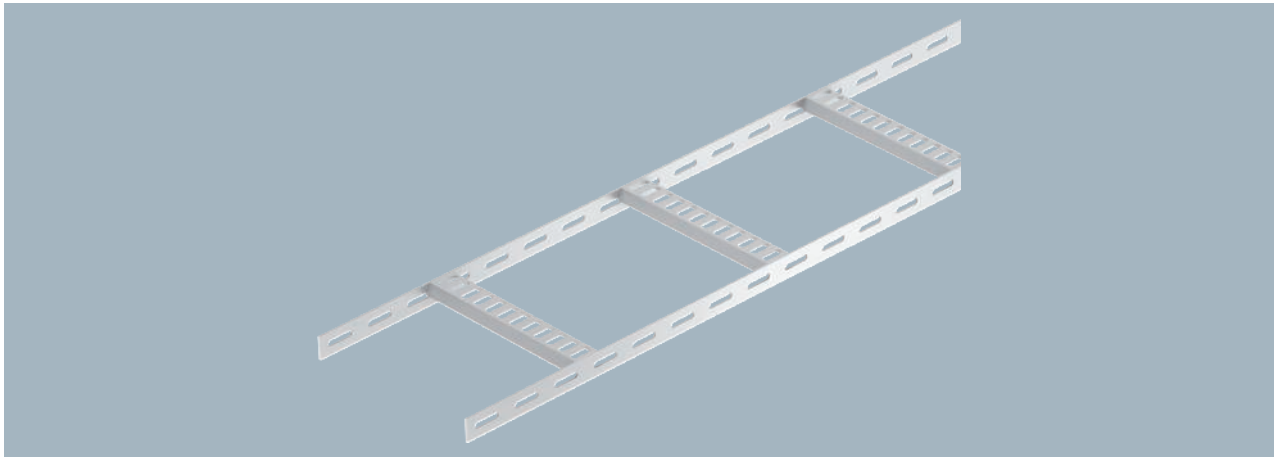
Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, type SL 42, with a side height of 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



Cable ladder with trapezoidal rung, 25

Alu GB

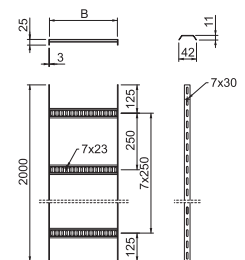


Type	Width mm	Pack m	Weight kg/100 m	Item no.
SL 42 075 ALU	75	2	41.000	7099722
SL 42 100 ALU	100	2	43.000	7099724
SL 42 150 ALU	150	2	47.500	7099726
SL 42 200 ALU	200	2	52.500	7099728
SL 42 250 ALU	250	2	57.000	7099730
SL 42 300 ALU	300	2	61.500	7099732

Shipbuilding cable ladder with perforated side rail of side height 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.

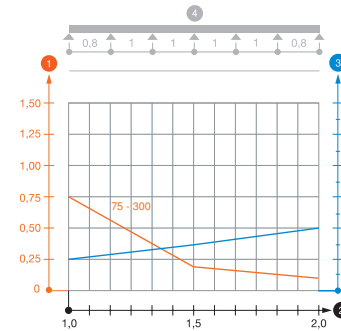
Type	Length mm	Dim. B mm	Side height mm	Rail thick- ness mm
SL 42 075 ALU	2000	81	25	3
SL 42 100 ALU	2000	106	25	3
SL 42 150 ALU	2000	156	25	3
SL 42 200 ALU	2000	206	25	3
SL 42 250 ALU	2000	256	25	3
SL 42 300 ALU	2000	306	25	3

Dimensions



Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
SL 42 075 ALU	0.75	0.2	0.1
SL 42 100 ALU	0.75	0.2	0.1
SL 42 150 ALU	0.75	0.2	0.1
SL 42 200 ALU	0.75	0.2	0.1
SL 42 250 ALU	0.75	0.2	0.1
SL 42 300 ALU	0.75	0.2	0.1

Load



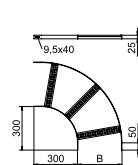
Load diagram, SL42 cable ladder

- 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

Alu GB

90° bend with trapezoidal rung, 25

Type	Width mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	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

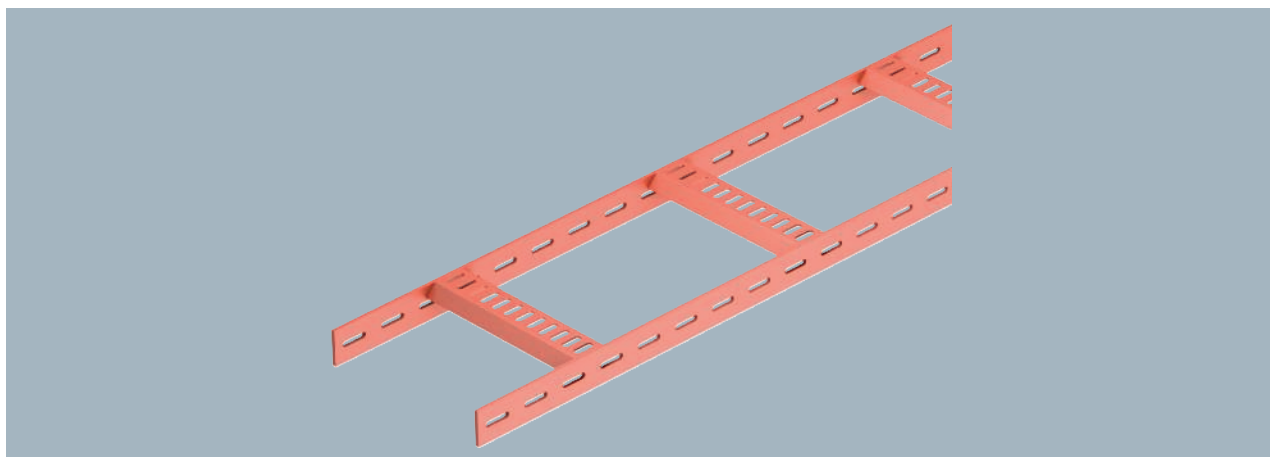


Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, type SL 42, with a side height of 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



Cable ladder with trapezoidal rung, 40

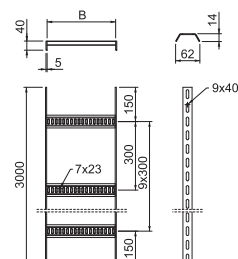


Type	Width mm	Pack m	Weight kg/100 m	Item no.
SL 62 100 SG	100	3	299.000	7097212
SL 62 200 SG	200	3	332.340	7097239
SL 62 300 SG	300	3	365.670	7097247
SL 62 400 SG	400	3	398.670	7097255
SL 62 500 SG	500	3	432.000	7097263
SL 62 600 SG	600	3	465.340	7097271

Shipbuilding 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.

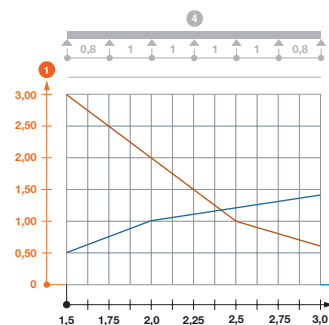
Type	Length mm	Dim. B mm	Side height mm	Rail thick- ness mm
SL 62 100 SG	3000	110	40	5
SL 62 200 SG	3000	210	40	5
SL 62 300 SG	3000	310	40	5
SL 62 400 SG	3000	410	40	5
SL 62 500 SG	3000	510	40	5
SL 62 600 SG	3000	610	40	5

Dimensions



	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 62 200 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



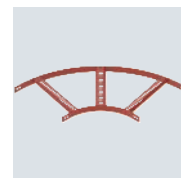
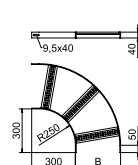
Load diagram, cable ladder SL62

- 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

St SG

90° bend with trapezoidal rung, 40

Type	Width mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	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

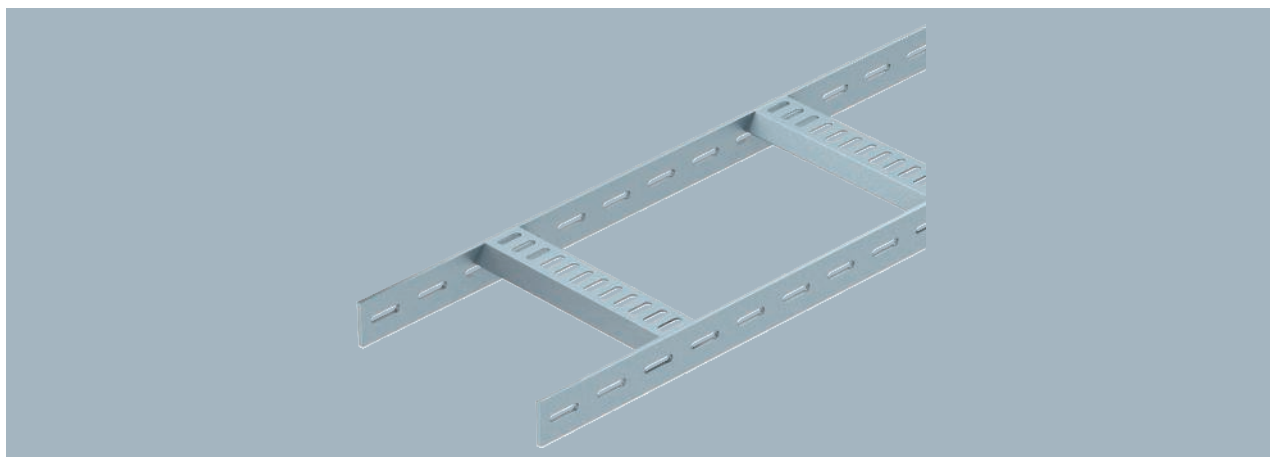


Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, type SL 62, with side height of 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



Cable ladder with trapezoidal rung, 40

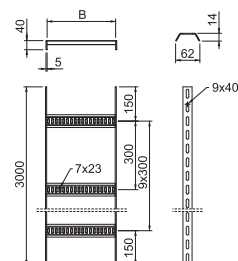


Type	Width mm	Pack m	Weight kg/100 m	Item no.
SL 62 100 FT	100	3	307.300	7097409
SL 62 150 FT	150	3	325.000	7097417
SL 62 200 FT	200	3	342.700	7097425
SL 62 300 FT	300	3	378.000	7097433
SL 62 400 FT	400	3	413.000	7097441
SL 62 500 FT	500	3	448.300	7097468
SL 62 600 FT	600	3	483.700	7097476

Shipbuilding 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.

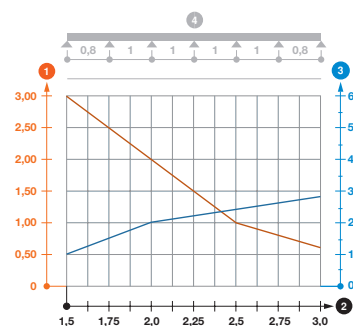
Type	Length mm	Dim. B mm	Side height mm	Rail thick- ness mm
SL 62 100 FT	3000	110	40	5
SL 62 150 FT	3000	160	40	5
SL 62 200 FT	3000	210	40	5
SL 62 300 FT	3000	310	40	5
SL 62 400 FT	3000	410	40	5
SL 62 500 FT	3000	510	40	5
SL 62 600 FT	3000	610	40	5

Dimensions



	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

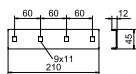
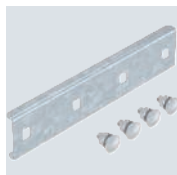
Load



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 40



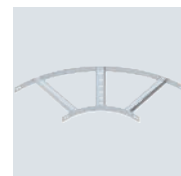
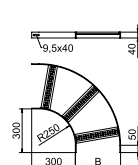
Type	Pack Piece	Weight kg/100 pc.	Item no.
SLV 62 FT	10	14.600	7103576

Straight connector to connect cable ladders and fittings with a side height of 40 mm.

St FT

90° bend with trapezoidal rung, 40

Type	Width mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	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



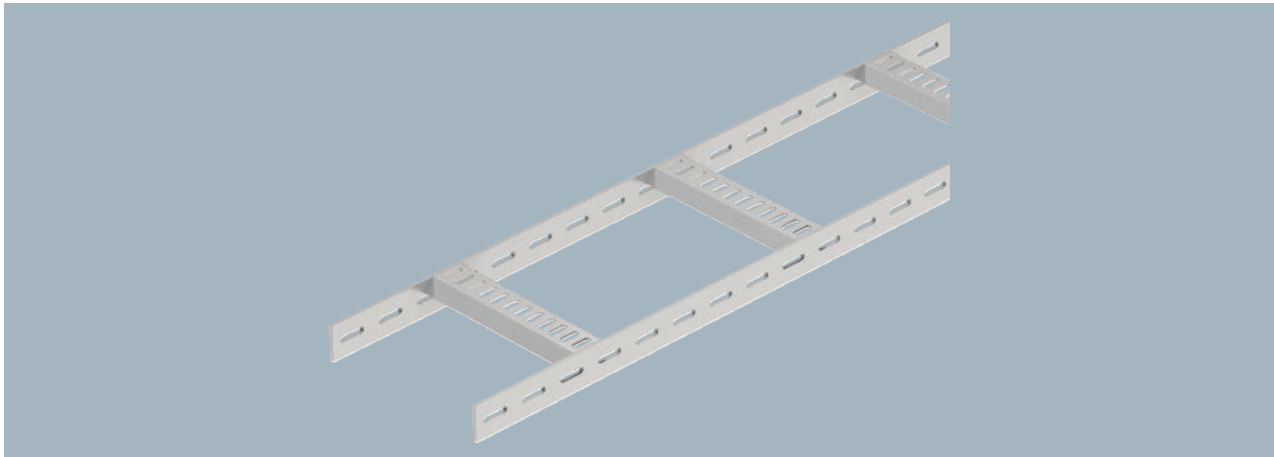
Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, type SL 62, with side height of 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



Cable ladder with trapezoidal rung, 40

A2 2B

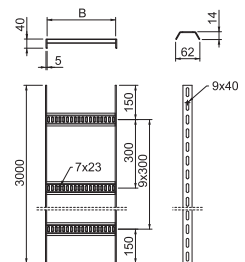


Type	Width mm	Pack m	Weight kg/100 m	Item no.
SL 62 100 A2	100	3	299.000	7097094
SL 62 200 A2	200	3	332.334	7097096
SL 62 300 A2	300	3	365.334	7097098
SL 62 400 A2	400	3	398.667	7097100
SL 62 500 A2	500	3	432.000	7097102
SL 62 600 A2	600	3	465.334	7097104

Shipbuilding 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.

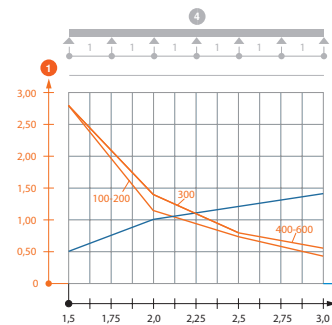
Type	Length mm	Dim. B mm	Side height mm	Rail thickness mm
SL 62 100 A2	3000	110	40	5
SL 62 200 A2	3000	210	40	5
SL 62 300 A2	3000	310	40	5
SL 62 400 A2	3000	410	40	5
SL 62 500 A2	3000	510	40	5
SL 62 600 A2	3000	610	40	5

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SL 62 100 A2	2.8	1.2	0.8	0.45
SL 62 200 A2	2.8	1.2	0.8	0.45
SL 62 300 A2	2.8	1.2	0.8	0.45
SL 62 400 A2	2.8	1.4	0.8	0.55
SL 62 500 A2	2.8	1.4	0.8	0.55
SL 62 600 A2	2.8	1.4	0.8	0.55

Load

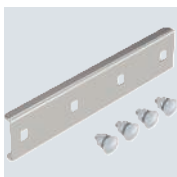


Load diagram, cable ladder SL62

- 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 40

A4



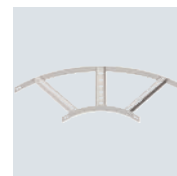
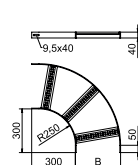
Type	Pack Piece	Weight kg/100 pc.	Item no.
SLV 62 A4	10	14.600	7103594

Straight connector to connect cable ladders and fittings with a side height of 40 mm.

A2 2B

90° bend with trapezoidal rung, 40

Type	Width mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLB 90 62 100 A2	100	5	1	206.800	7099150
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



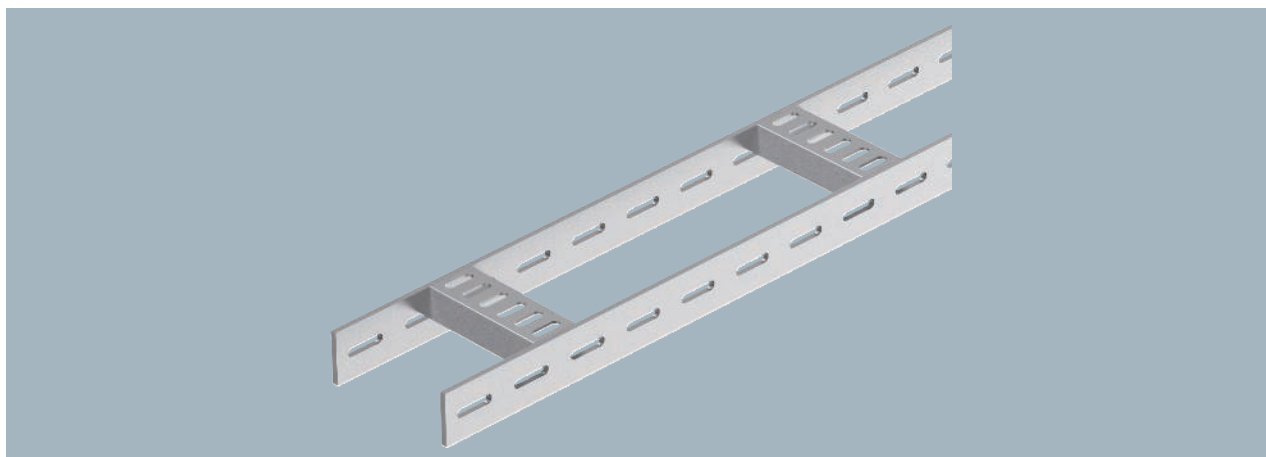
Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, type SL 62, with side height of 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



Cable ladder with trapezoidal rung, 40

A4 2B

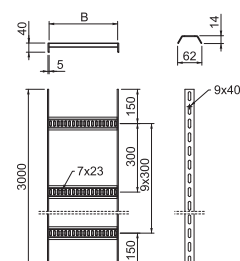


Type	Width mm	Pack m	Weight kg/100 m	Item no.
SL 62 100 A4	100	3	299.000	7097358
SL 62 200 A4	200	3	332.334	7097360
SL 62 300 A4	300	3	365.334	7097362
SL 62 400 A4	400	3	398.667	7097364
SL 62 500 A4	500	3	432.000	7097366
SL 62 600 A4	600	3	465.334	7097368

Shipbuilding 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.

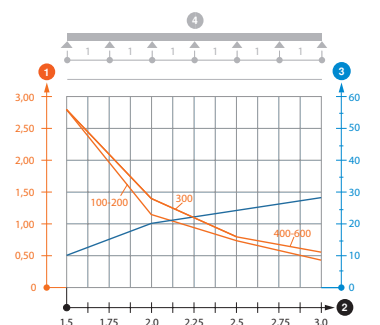
Type	Length mm	Dim. B mm	Side height mm	Rail thickness mm
SL 62 100 A4	3000	110	40	5
SL 62 200 A4	3000	210	40	5
SL 62 300 A4	3000	310	40	5
SL 62 400 A4	3000	410	40	5
SL 62 500 A4	3000	510	40	5
SL 62 600 A4	3000	610	40	5

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SL 62 100 A4	2.8	1.2	0.8	0.45
SL 62 200 A4	2.8	1.2	0.8	0.45
SL 62 300 A4	2.8	1.2	0.8	0.45
SL 62 400 A4	2.8	1.4	0.8	0.55
SL 62 500 A4	2.8	1.4	0.8	0.55
SL 62 600 A4	2.8	1.4	0.8	0.55

Load



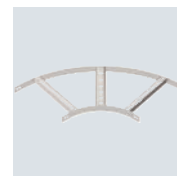
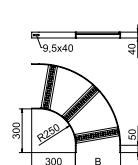
Load diagram, cable ladder SL62

- 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

A4 2B

90° bend with trapezoidal rung, 40

Type	Width mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	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



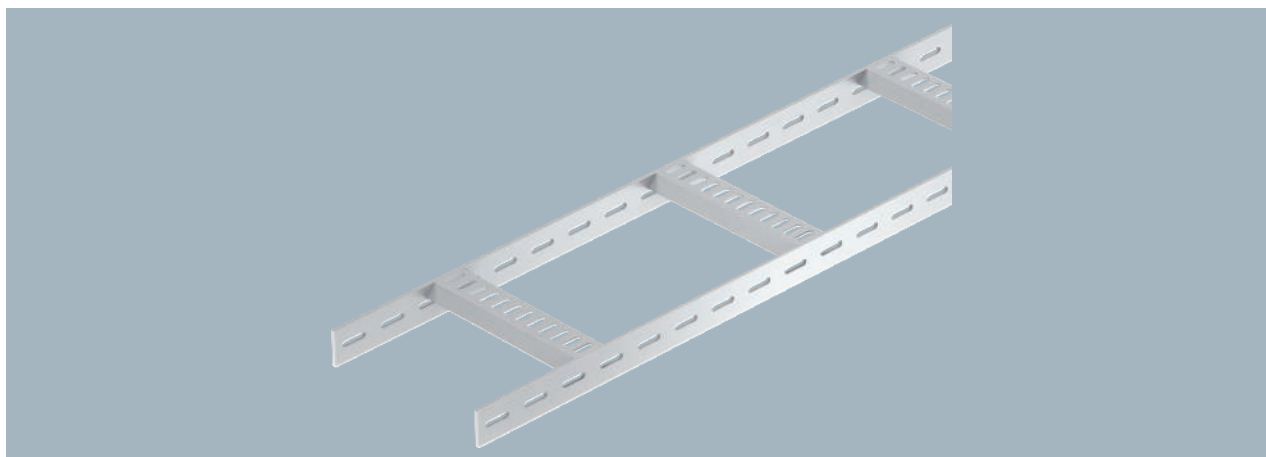
Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, type SL 62, with side height of 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction.



Cable ladder with trapezoidal rung, 40

Alu GB

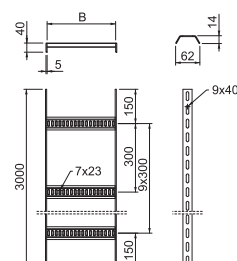


Type	Width mm	Pack m	Weight kg/100 m	Item no.
SL 62 100 ALU	100	3	99.800	7099752
SL 62 200 ALU	200	3	111.067	7099754
SL 62 300 ALU	300	3	122.300	7099756
SL 62 400 ALU	400	3	133.567	7099758
SL 62 500 ALU	500	3	144.833	7099760
SL 62 600 ALU	600	3	156.100	7099762

Shipbuilding cable ladder with perforated side rail of side height 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction.

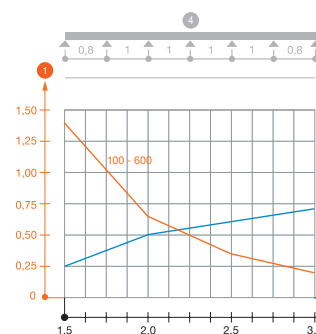
Type	Length mm	Dim. B mm	Side height mm	Rail thick- ness mm
SL 62 100 ALU	3000	110	40	5
SL 62 200 ALU	3000	210	40	5
SL 62 300 ALU	3000	310	40	5
SL 62 400 ALU	3000	410	40	5
SL 62 500 ALU	3000	510	40	5
SL 62 600 ALU	3000	610	40	5

Dimensions



Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SL 62 100 ALU	1.4	0.65	0.35	0.2
SL 62 200 ALU	1.4	0.65	0.35	0.2
SL 62 300 ALU	1.4	0.65	0.35	0.2
SL 62 400 ALU	1.4	0.65	0.35	0.2
SL 62 500 ALU	1.4	0.65	0.35	0.2
SL 62 600 ALU	1.4	0.65	0.35	0.2

Load

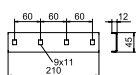
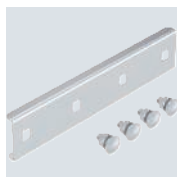


Load diagram, SL 62 cable ladder

- 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

Connector 40

Alu



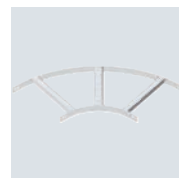
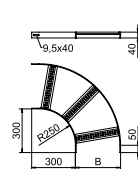
Type	Pack Piece	Weight kg/100 pc.	Item no.
SLV 62 ALU	10	7.000	7103586

Straight connector to connect cable ladders and fittings with a side height of 40 mm.

Alu GB

90° bend with trapezoidal rung, 40

Type	Width mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	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

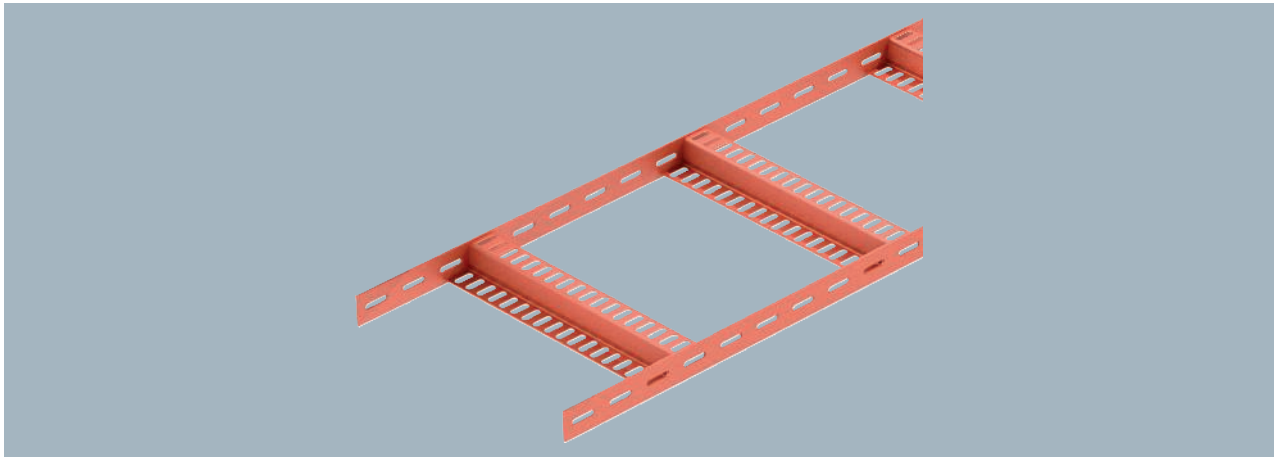


Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, 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, 35

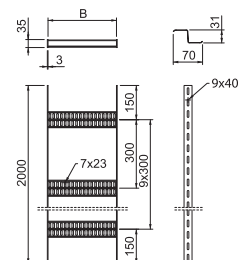


Type	Width mm	Pack m	Weight kg/100 m	Item no.
SLZ L 100 SG	100	3	167.000	7098032
SLZ L 200 SG	200	3	187.667	7098036
SLZ L 300 SG	300	3	208.667	7098038
SLZ L 400 SG	400	3	229.334	7098040
SLZ L 500 SG	500	3	250.000	7098042
SLZ L 600 SG	600	3	270.667	7098044

Light-duty shipbuilding 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.

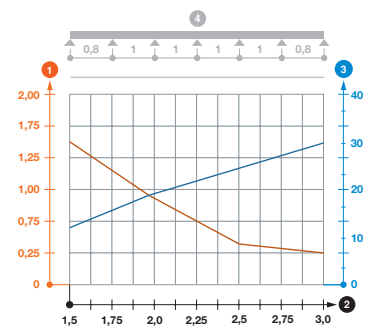
Type	Length mm	Dim. B mm	Side height mm	Rail thick-ness mm
SLZ L 100 SG	3000	106	35	3
SLZ L 200 SG	3000	206	35	3
SLZ L 300 SG	3000	306	35	3
SLZ L 400 SG	3000	406	35	3
SLZ L 500 SG	3000	506	35	3
SLZ L 600 SG	3000	606	35	3

Dimensions



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 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

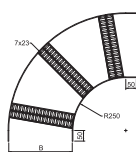
Load



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 with Z rung, 35



Type	Width mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLZB L 90 100 SG	100	3	1	111.000	7099201
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

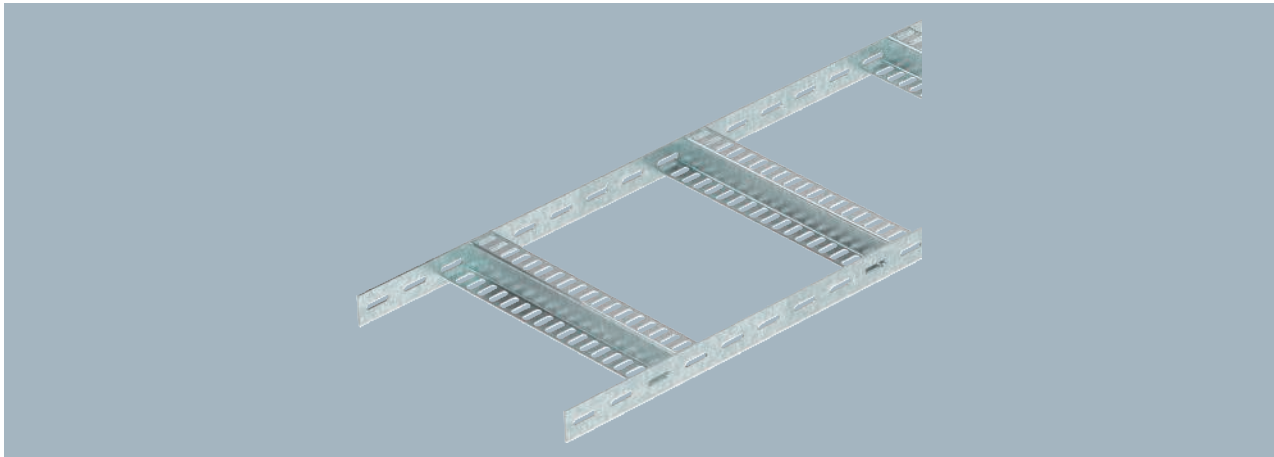
Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, type SLZ L, with side height of 35 mm with welded, perforated Z rungs.

St FT



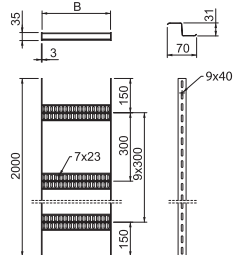
Cable ladder with Z rung, 35



Light-duty shipbuilding 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.

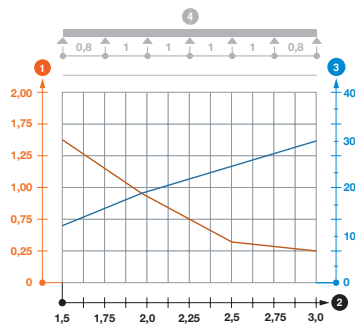
Type	Width mm	Pack m	Weight kg/100 m	Item no.
SLZ L 100 FT	100	3	175.334	7098002
SLZ L 200 FT	200	3	198.334	7098006
SLZ L 300 FT	300	3	221.667	7098008
SLZ L 400 FT	400	3	245.000	7098010
SLZ L 500 FT	500	3	268.334	7098012
SLZ L 600 FT	600	3	291.667	7098014

Dimensions



Type	Length mm	Dim. B mm	Side height mm	Rail thick-ness mm
SLZ L 100 FT	3000	106	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



	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 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

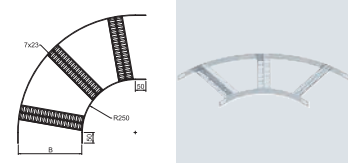
Load diagram, cable ladder SLZ L

- 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

St FT

90° bend with Z rung, 35

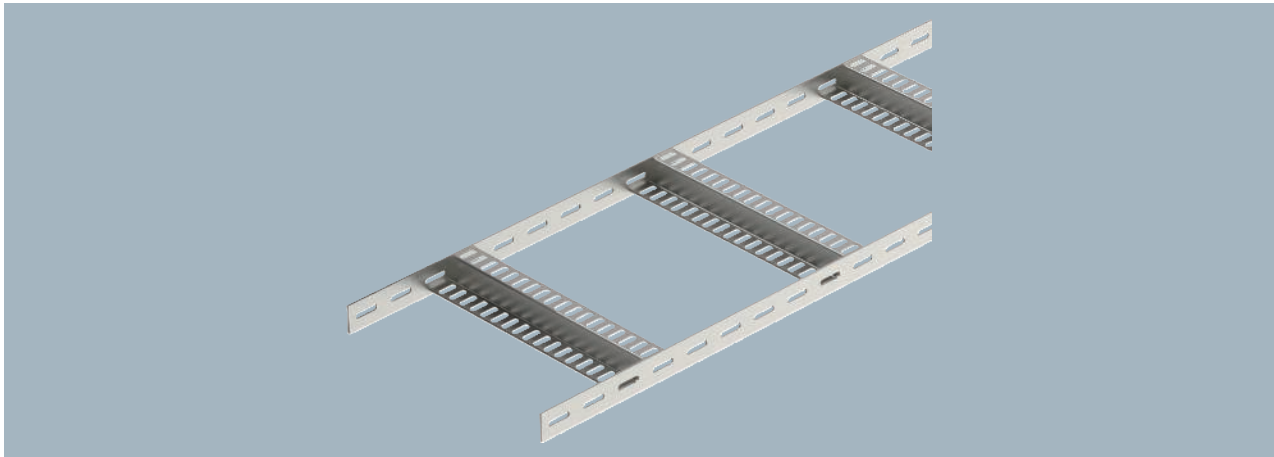
Type	Width mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLZB L 90 100 FT	100	3	1	119.400	7099221
SLZB L 90 200 FT	200	3	1	153.300	7099224
SLZB L 90 300 FT	300	3	1	187.200	7099226
SLZB L 90 400 FT	400	3	1	221.000	7099228
SLZB L 90 500 FT	500	3	1	254.900	7099230
SLZB L 90 600 FT	600	3	1	288.800	7099232



Connectors should be ordered separately and in the appropriate quantity.
90° bend for shipbuilding cable ladders, type SLZ L, with side height of 35 mm with welded, perforated Z rungs.

Cable ladder with Z rung, 35

A2 2B

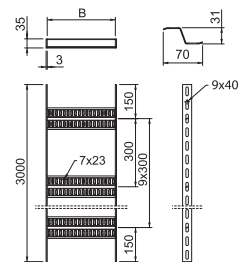


Type	Width mm	Pack m	Weight kg/100 m	Item no.
SLZ L 100 A2	100	3	167.000	7098062
SLZ L 200 A2	200	3	187.667	7098066
SLZ L 300 A2	300	3	208.667	7098068
SLZ L 400 A2	400	3	229.167	7098070
SLZ L 500 A2	500	3	250.000	7098072
SLZ L 600 A2	600	3	270.667	7098074

Light-duty shipbuilding 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.

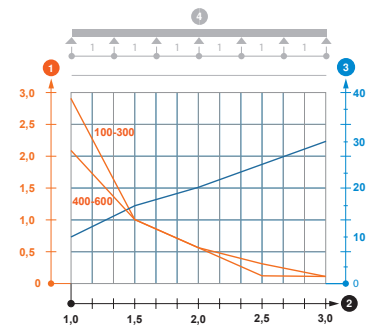
Type	Length mm	Dim. B mm	Side height mm	Rail thick- ness mm
SLZ L 100 A2	3000	106	35	3
SLZ L 200 A2	3000	206	35	3
SLZ L 300 A2	3000	306	35	3
SLZ L 400 A2	3000	406	35	3
SLZ L 500 A2	3000	506	35	3
SLZ L 600 A2	3000	606	35	3

Dimensions



	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
SLZ L 100 A2	2.8	1	0.55	0.35	0.25
SLZ L 200 A2	2.8	1	0.55	0.35	0.25
SLZ L 300 A2	2.8	1	0.55	0.35	0.25
SLZ L 400 A2	2.2	1	0.55	0.25	0.25
SLZ L 500 A2	2.2	1	0.55	0.25	0.25
SLZ L 600 A2	2.2	1	0.55	0.25	0.25

Load

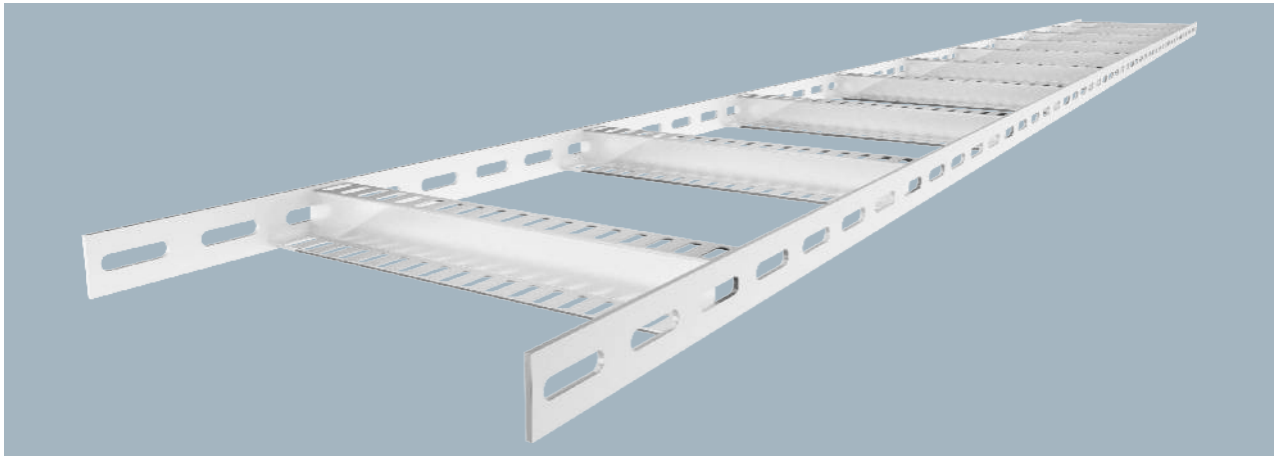


Load diagram, SLZ L cable ladder

- 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

St

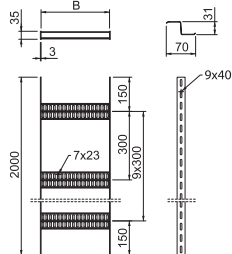
Cable ladder with Z rung, light-duty FTK, Traffic white



Marine cable ladder with perforated side rail of side height 35 mm with welded, perforated Z-rungs.

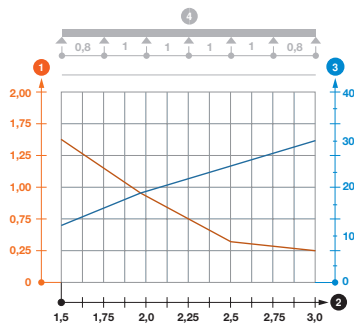
Type	Width mm	Colour	Pack m	Weight kg/100 m	Item no.
SLZL 100MW FTKVW	100	Traffic white	3	166.600	7098300
SLZL 200MW FTKVW	200	Traffic white	3	189.600	7098302

Dimensions



Type	Length mm	Dim. B mm	Side height mm	Rail thickness mm
SLZL 100MW FTKVW	3000	106	35	3
SLZL 200MW FTKVW	3000	206	35	3

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SLZL 100MW FTKVW	1.5	0.85	0.35	0.25
SLZL 200MW FTKVW	1.5	0.85	0.35	0.25

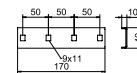
Load diagram, SLZ L cable ladder

- 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

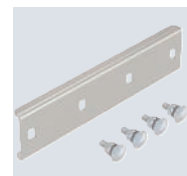
A4

Type	Pack Piece	Weight kg/100 pc.	Item no.
SLV 52 A4	10	14.000	7103592

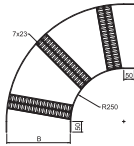
Straight connector to connect cable ladders and fittings with a side height of 35 mm.



Connector 35



90° bend, 35



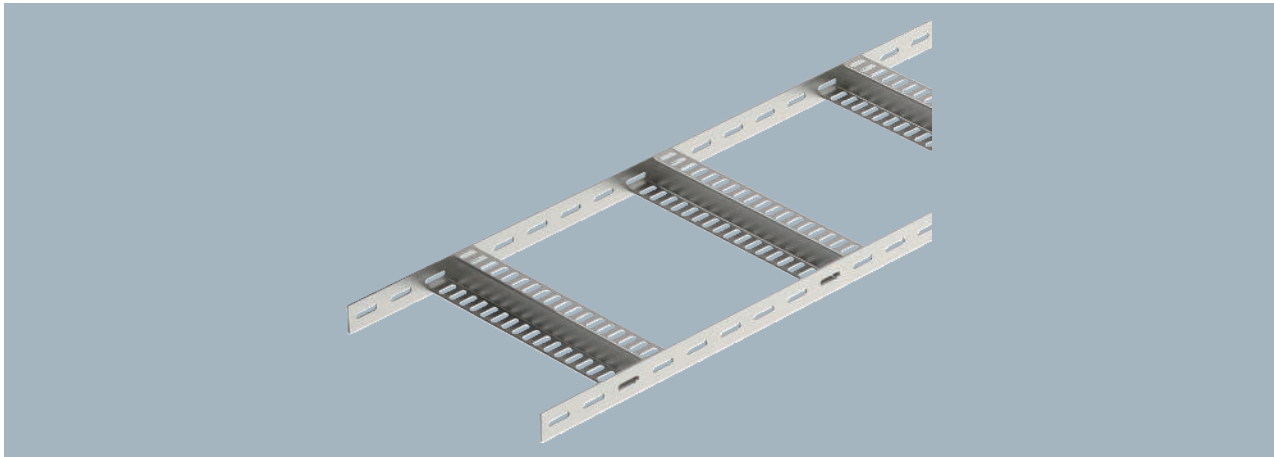
Type	Width mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLZB L 90 100 A2	100	3	1	113.000	7099241
SLZB L 90 200 A2	200	3	1	145.000	7099243
SLZB L 90 300 A2	300	3	1	176.000	7099245
SLZB L 90 400 A2	400	3	1	208.000	7099247
SLZB L 90 500 A2	500	3	1	240.000	7099249
SLZB L 90 600 A2	600	3	1	272.000	7099251

Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, type SLZ L, with side height of 35 mm with welded, perforated Z rungs.

A4 2B

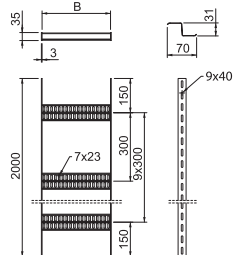
Cable ladder with Z rung, 35



Light-duty shipbuilding 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.

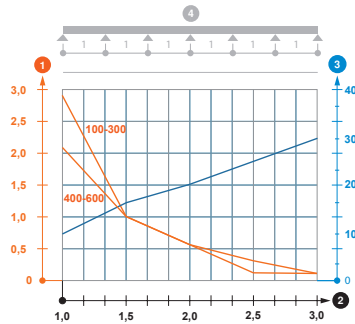
Type	Width mm	Pack m	Weight kg/100 m	Item no.
SLZ L 100 A4	100	3	167.000	7098082
SLZ L 200 A4	200	3	187.667	7098086
SLZ L 300 A4	300	3	208.667	7098088
SLZ L 400 A4	400	3	229.334	7098090
SLZ L 500 A4	500	3	250.000	7098092
SLZ L 600 A4	600	3	270.667	7098094

Dimensions



Type	Length mm	Dim. B mm	Side height mm	Rail thickness mm
SLZ L 100 A4	3000	106	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



	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
SLZ L 100 A4	2.8	1	0.55	0.35	0.25
SLZ L 200 A4	2.8	1	0.55	0.35	0.25
SLZ L 300 A4	2.8	1	0.55	0.35	0.25
SLZ L 400 A4	2.2	1	0.55	0.25	0.25
SLZ L 500 A4	2.2	1	0.55	0.25	0.25
SLZ L 600 A4	2.2	1	0.55	0.25	0.25

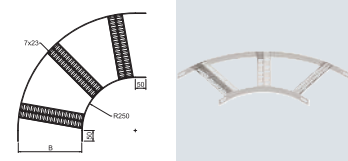
Load diagram, SLZ L cable ladder

- 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

A4 2B

90° bend with Z rung, 35

Type	Width mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLZB L 90 100 A4	100	3	1	114.000	7099261
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

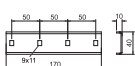


Connectors should be ordered separately and in the appropriate quantity.
90° bend for shipbuilding cable ladders, type SLZ L, with side height of 35 mm with welded, perforated Z rungs.



Straight connector

St FT



Type

SLV 52 FT

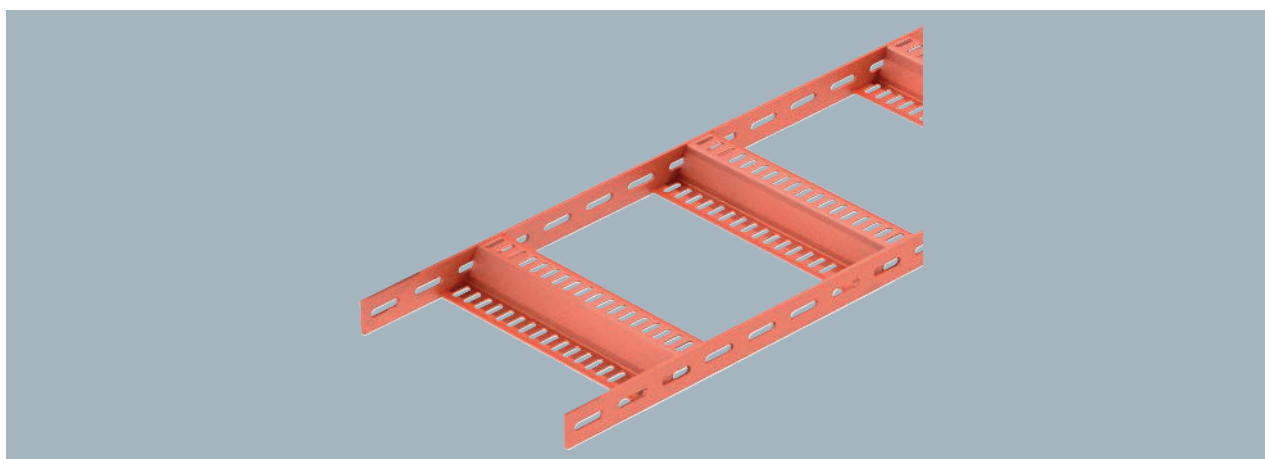
Pack Piece	Weight kg/100 pc.	Item no.
10	14.700	7103532

The bolt fastening ensures the continuity of the equipotential bonding.

Cable ladder systems

Cable ladder with Z rung, 40

St SG

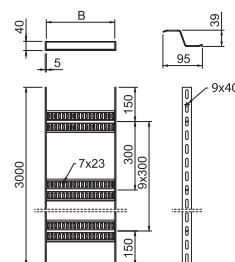


Type	Width mm	Pack m	Weight kg/100 m	Item no.
SLZ 100 SG	100	3	319.000	7098162
SLZ 200 SG	200	3	372.334	7098164
SLZ 300 SG	300	3	425.667	7098166
SLZ 400 SG	400	3	479.000	7098168
SLZ 500 SG	500	3	532.333	7098170
SLZ 600 SG	600	3	585.667	7098172

Shipbuilding 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.

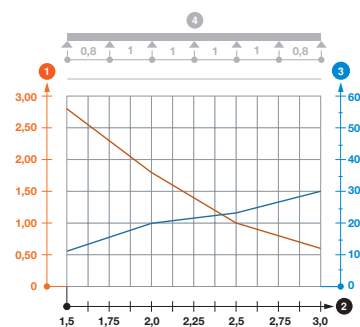
Type	Length mm	Dim. B mm	Side height mm	Rail thickness mm
SLZ 100 SG	3000	110	40	5
SLZ 200 SG	3000	210	40	5
SLZ 300 SG	3000	310	40	5
SLZ 400 SG	3000	410	40	5
SLZ 500 SG	3000	510	40	5
SLZ 600 SG	3000	610	40	5

Dimensions



	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

Load



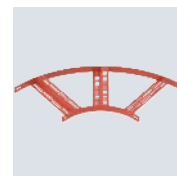
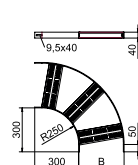
Load diagram, cable ladder SLZ

- 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

St SG

90° bend with Z rung, 40

Type	Width mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
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

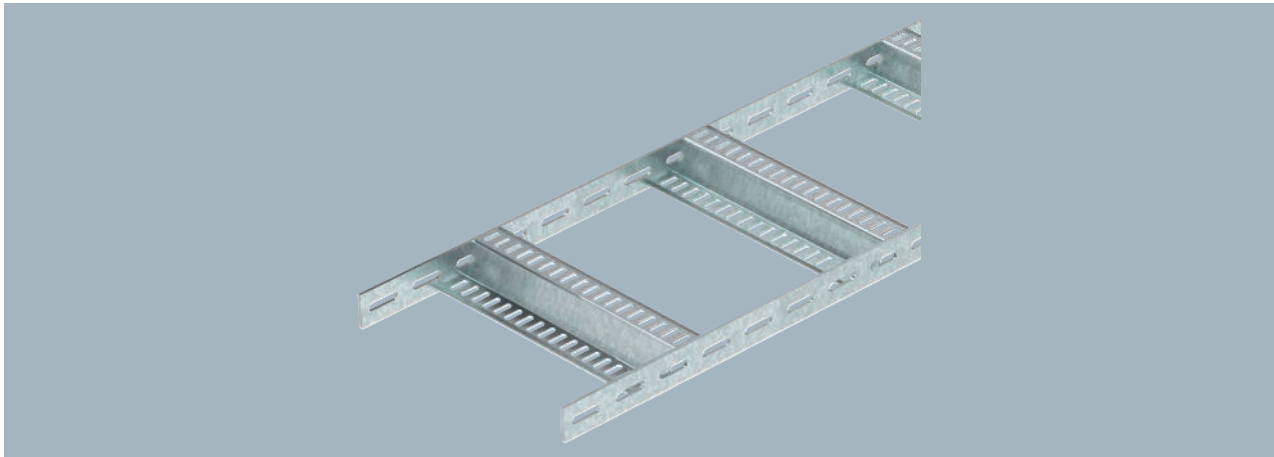


Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, type SLZ, with side height of 40 mm with welded, perforated Z rungs.



Cable ladder with Z rung, 40

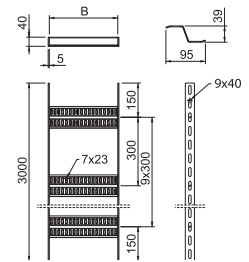


Type	Width mm	Pack m	Weight kg/100 m	Item no.
SLZ 100 FT	100	3	328.667	7098132
SLZ 150 FT	150	3	357.000	7098133
SLZ 200 FT	200	3	385.334	7098134
SLZ 300 FT	300	3	441.667	7098136
SLZ 400 FT	400	3	498.166	7098138
SLZ 500 FT	500	3	554.667	7098140
SLZ 600 FT	600	3	611.333	7098142

Shipbuilding 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.

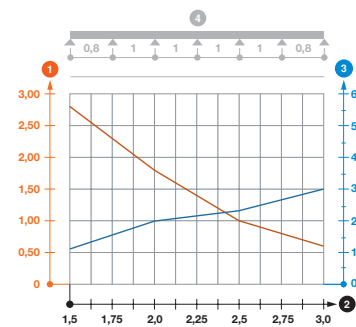
Type	Length mm	Dim. B mm	Side height mm	Rail thickness mm
SLZ 100 FT	3000	110	40	5
SLZ 150 FT	3000	160	40	5
SLZ 200 FT	3000	210	40	5
SLZ 300 FT	3000	310	40	5
SLZ 400 FT	3000	410	40	5
SLZ 500 FT	3000	510	40	5
SLZ 600 FT	3000	610	40	5

Dimensions



	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

Load



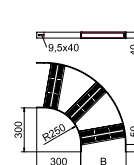
Load diagram, cable ladder SLZ

- 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

St FT

90° bend with Z rung, 40

Type	Width mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLZB 90 100 FT	100	5	1	228.900	7099000
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



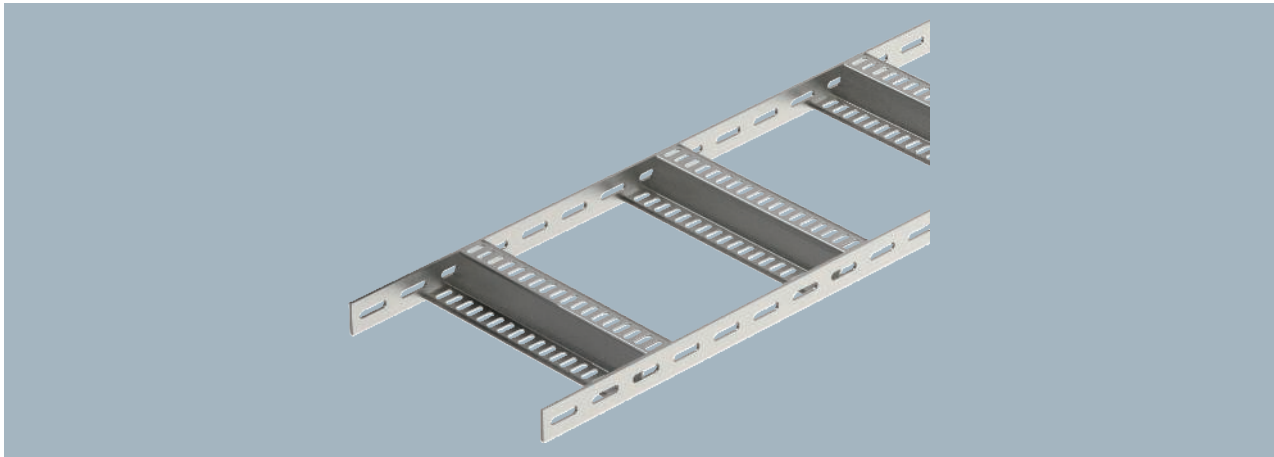
Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, type SLZ, with side height of 40 mm with welded, perforated Z rungs.



Cable ladder with Z rung, 40

A2 2B

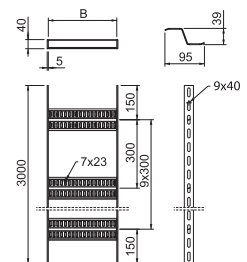


Type	Width mm	Pack m	Weight kg/100 m	Item no.
SLZ 100 A2	100	3	319.000	7098192
SLZ 200 A2	200	3	372.400	7098194
SLZ 300 A2	300	3	425.670	7098196
SLZ 400 A2	400	3	479.000	7098198
SLZ 500 A2	500	3	532.340	7098200
SLZ 600 A2	600	3	585.670	7098202

Shipbuilding 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.

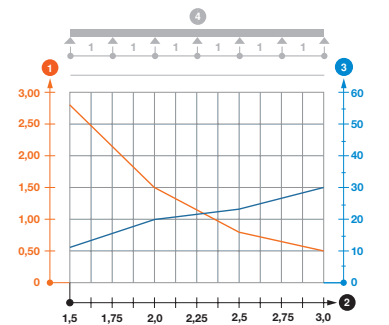
Type	Length mm	Dim. B mm	Side height mm	Rail thick- ness mm
SLZ 100 A2	3000	110	40	5
SLZ 200 A2	3000	210	40	5
SLZ 300 A2	3000	310	40	5
SLZ 400 A2	3000	410	40	5
SLZ 500 A2	3000	510	40	5
SLZ 600 A2	3000	610	40	5

Dimensions



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	1.5	0.8	0.5
SLZ 200 A2	2.8	1.5	0.8	0.5
SLZ 300 A2	2.8	1.5	0.8	0.5
SLZ 400 A2	2.8	1.5	0.8	0.5
SLZ 500 A2	2.8	1.5	0.8	0.5
SLZ 600 A2	2.8	1.5	0.8	0.5

Load

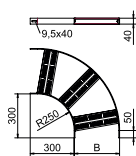


Load diagram, cable ladder SLZ

- 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 with Z rung, 40

A2 2B



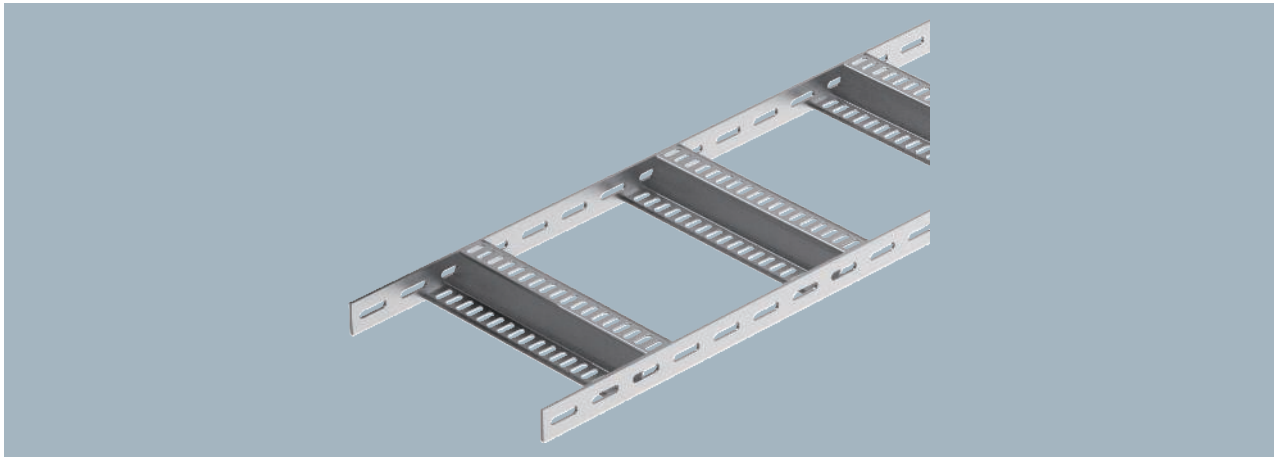
Type	Width mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLZB 90 100 A2	100	5	1	225.100	7099030
SLZB 90 200 A2	200	5	1	298.300	7099032
SLZB 90 300 A2	300	5	1	371.500	7099034
SLZB 90 400 A2	400	5	1	444.600	7099036
SLZB 90 500 A2	500	5	1	517.700	7099038
SLZB 90 600 A2	600	5	1	590.900	7099040

Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, type SLZ, with side height of 40 mm with welded, perforated Z rungs.

A4 2B

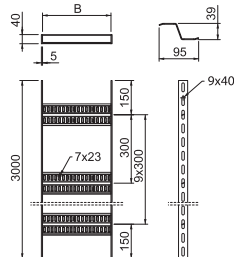
Cable ladder with Z rung, 40



Shipbuilding 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.

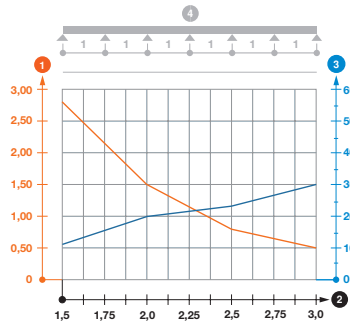
Type	Width mm	Pack m	Weight kg/100 m	Item no.
SLZ 100 A4	100	3	319.000	7098222
SLZ 200 A4	200	3	372.340	7098224
SLZ 300 A4	300	3	427.670	7098226
SLZ 400 A4	400	3	479.000	7098228
SLZ 500 A4	500	3	532.340	7098230
SLZ 600 A4	600	3	585.670	7098232

Dimensions



Type	Length mm	Dim. 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

Load



	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	1.5	0.8	0.5
SLZ 200 A4	2.8	1.5	0.8	0.5
SLZ 300 A4	2.8	1.5	0.8	0.5
SLZ 400 A4	2.8	1.5	0.8	0.5
SLZ 500 A4	2.8	1.5	0.8	0.5
SLZ 600 A4	2.8	1.5	0.8	0.5

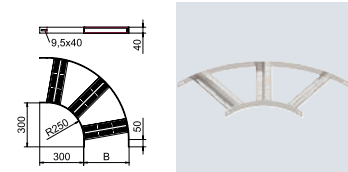
Load diagram, cable ladder SLZ

- 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

A4 2B

90° bend with Z rung, 40

Type	Width mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLZB 90 100 A4	100	5	1	227.900	7099060
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

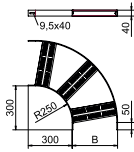


Connectors should be ordered separately and in the appropriate quantity.
90° bend for shipbuilding cable ladders, type SLZ, with side height of 40 mm with welded, perforated Z rungs.



90° bend with Z rung, 40

Alu GB

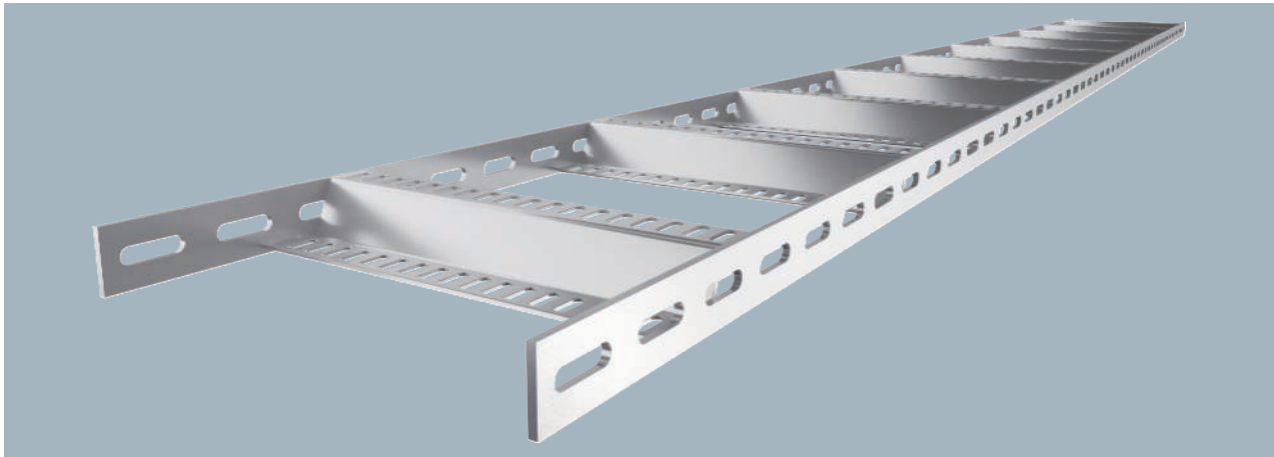


Type	Width mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLZB 90 100 ALU	100	5	1	75.800	7099090
SLZB 90 200 ALU	200	5	1	100.400	7099092
SLZB 90 300 ALU	300	5	1	125.100	7099094
SLZB 90 400 ALU	400	5	1	149.700	7099096
SLZB 90 500 ALU	500	5	1	174.300	7099098
SLZB 90 600 ALU	600	5	1	198.900	7099100

Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, type SLZ, with side height of 40 mm with welded, perforated Z rungs.

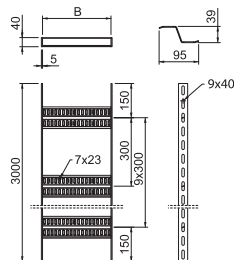




Shipbuilding cable ladder with perforated side rail of side height 40 mm with welded, perforated Z rungs.
The shipbuilding cable ladder, including fittings, is also available in stainless steel on request. Powder coating according to RAL colours possible.

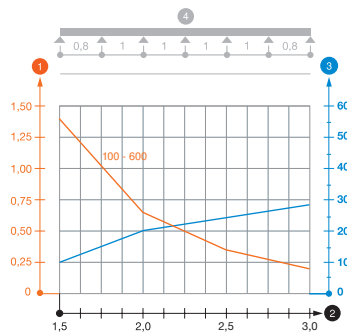
Type	Width mm	Pack m	Weight kg/100 m	Item no.
SLZ 100 ALU	100	3	106.600	7099772
SLZ 200 ALU	200	3	124.667	7099774
SLZ 300 ALU	300	3	142.734	7099776
SLZ 400 ALU	400	3	160.767	7099778
SLZ 500 ALU	500	3	178.834	7099780
SLZ 600 ALU	600	3	196.900	7099782

Dimensions



Type	Length mm	Dim. 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

Load

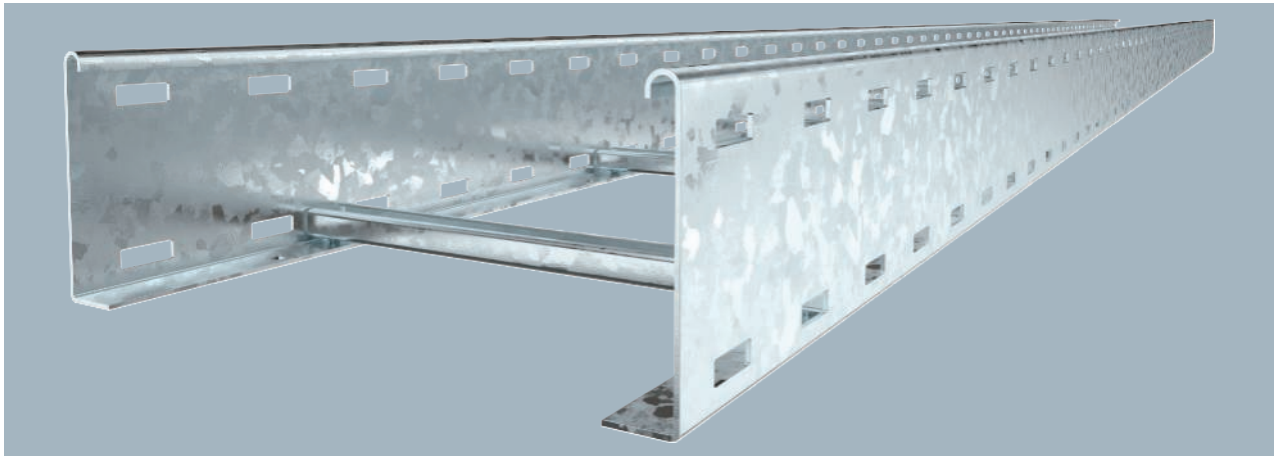


	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SLZ 100 ALU	1.4	0.65	0.35	0.2
SLZ 200 ALU	1.4	0.65	0.35	0.2
SLZ 300 ALU	1.4	0.65	0.35	0.2
SLZ 400 ALU	1.4	0.65	0.35	0.2
SLZ 500 ALU	1.4	0.65	0.35	0.2
SLZ 600 ALU	1.4	0.65	0.35	0.2

Load diagram, SLZ cable ladder

- 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

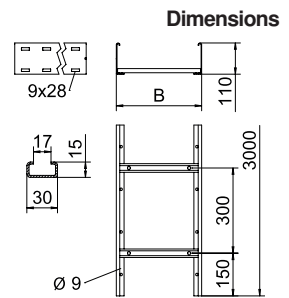




Type	Width mm	Pack m	Weight kg/100 m	Item no.
SLCS 1120 3 FTSO	200	3	536.740	7186400
SLCS 1140 3 FTSO	400	3	606.070	7186404
SLCS 1150 3 FTSO	500	3	640.333	7186406
SLCS 1160 3 FTSO	600	3	675.333	7186408
SLCS 1175 3 FTSO	750	3	727.000	7186410
SLCS 1180 3 FTSO	800	3	744.667	7186412
SLCS 1190 3 FTSO	900	3	779.000	7186414
SLCS 11100 3FTSO	1000	3	845.667	7186416

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 clamp clip is type 2056.

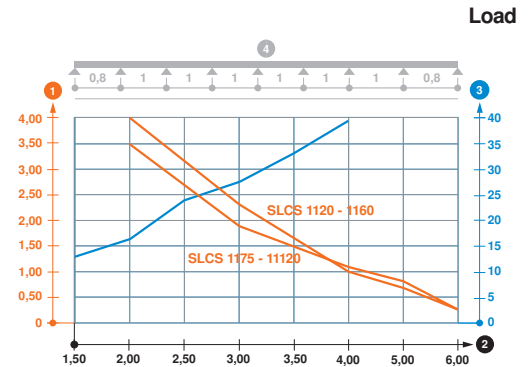
Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm ²	Rung spacing mm
SLCS 1120 3 FTSO	3000	—	2	180	300
SLCS 1140 3 FTSO	3000	—	2	360	300
SLCS 1150 3 FTSO	3000	—	2	450	300
SLCS 1160 3 FTSO	3000	—	2	540	300
SLCS 1175 3 FTSO	3000	—	2	675	300
SLCS 1180 3 FTSO	3000	—	2	720	300
SLCS 1190 3 FTSO	3000	—	2	810	300
SLCS 11100 3FTSO	3000	—	2	900	300



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 FTSO	4	2.3	1	0.7	0.25
SLCS 1140 3 FTSO	4	2.3	1	0.7	0.25
SLCS 1150 3 FTSO	4	2.3	1	0.7	0.25
SLCS 1160 3 FTSO	4	2.3	1	0.7	0.25
SLCS 1175 3 FTSO	3.5	1.9	1	0.8	0.25
SLCS 1180 3 FTSO	3.5	1.9	1	0.8	0.25
SLCS 1190 3 FTSO	3.5	1.9	1	0.8	0.25
SLCS 11100 3FTSO	3.5	1.9	1	0.8	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

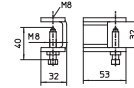


St FT

KLL 32 cable ladder beam clamp

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
KLL 32 FT	32	10	17.500	6221061

Beam clamp for fastening cable ladders to steel girders.

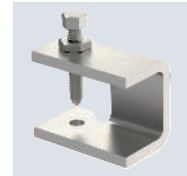
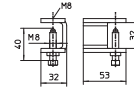


A2 2B

KLL 32 cable ladder beam clamp

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
KLL 32 A2	32	10	17.100	6221063

Beam clamp for fastening cable ladders to steel girders.

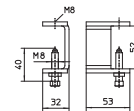


St FT

KLL 52 cable ladder beam clamp

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
KLL 52 FT	52	10	21.400	6221071

Beam clamp for fastening cable ladders to steel girders.

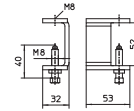


A2 2B

KLL 52 cable ladder beam clamp

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
KLL 52 A2	52	10	21.000	6221073

Beam clamp for fastening cable ladders to steel girders.



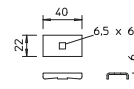
St FS FT

LKS 40 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
LKS 40 FS	10	2.300	6221076
LKS 40 FT	10	2.400	6221084

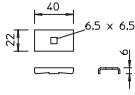
Hold-down clamp for fastening cable ladders.

Fastening on brackets, type MWA 12, AW 15, AW 30 and AW 55, using the enclosed truss-head bolt FRS M6 x 20.



LKS 40 hold-down clamp

A2 2B



Type

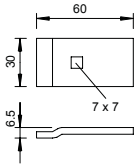
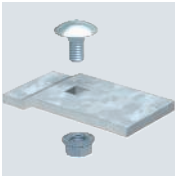
LKS 40 A2

Pack Piece	Weight kg/100 pc.	Item no.
10	2,300	6017134

Hold-down clamp for fastening cable ladders.
Fastening on brackets, type MWA 12, AW 15, AW 30 and AW 55, using the supplied FRS M6 x 20 fastening bolt.

LKS 60/4 hold-down clamp

St FT



Type

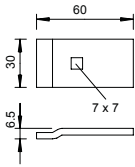
LKS 60 4 FT

Pack Piece	Weight kg/100 pc.	Item no.
10	6,500	6221122

Hold-down clamp for fastening cable ladders.
Fastening on brackets, type MWA 12, AW 15, AW 30 and AW 55, using the enclosed truss-head bolt FRS M6x20.

LKS 60/4 hold-down clamp

A2 A4 2B



Type

LKS 60 4 A2

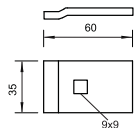
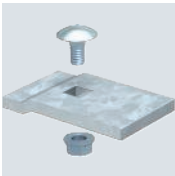
LKS 60 4 A4

Pack Piece	Weight kg/100 pc.	Item no.
10	8,000	6221130
10	6,363	6221157

Hold-down clamp for fastening cable ladders.
Fastening on brackets, type AW 15, AW 30 and AW 55, using the enclosed truss-head bolt FRS M6x20.

LKS 60/5 hold-down clamp

St FT



Type

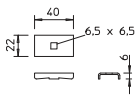
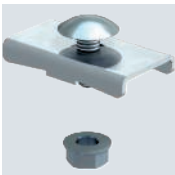
LKS 60 5 FT

Pack Piece	Weight kg/100 pc.	Item no.
10	10,000	6232485

Hold-down clamp for fastening wide span cable ladders.
Fastening on bracket, type AW 80, and AWSS using the enclosed truss-head bolt FRS M8x20.

Clamping piece FTK, light grey

St



Type Colour

LKS 40 FTK LGR Light grey

Pack Piece	Weight kg/100 pc.	Item no.
50	2,500	6479790

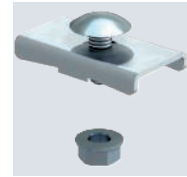
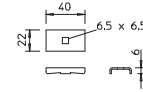
Hold-down clamp for fastening cable ladders.

St FT SO

Cable ladder hold-down clamp FT SOMY

Type	Pack Piece	Weight kg/100 pc.	Item no.
LKS 40 FT SO	50	2.500	7189192

Hold-down clamp for fastening cable ladders.
The surface coating is a coating created in a single-dip method with extra-high zinc thicknesses.

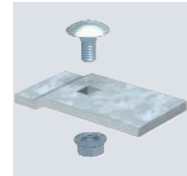
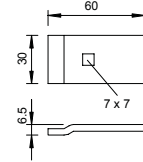


St FT

LKS 60/4 clamping piece

Type	Pack Piece	Weight kg/100 pc.	Item no.
LKS 60 4 FT 8.8	10	7.000	6221124

Hold-down clamp for fastening cable ladders.
Fastening on brackets, type MWA 12, AW 15, AW 30 and AW 55, using the enclosed truss-head bolt FRS M6x20.

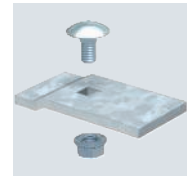
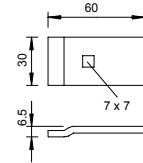


St

Clamping piece FTK, light grey

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
LKS 60 4 FTK LGR	Light grey	50	7.000	6479435

Hold-down clamp for fastening cable ladders.
The surface of the hold-down clamp is hot-dip galvanised and is also plastic-coated in RAL shades.

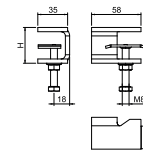


A2 2B

Hold-down clamp with KLL 32 pressure plate

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
KLL 32 MD A2	32	10	24.600	6221065

Hold-down clamp for position fixing of horizontal cable ladders on horizontal steel girders.

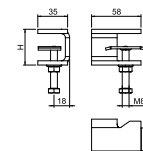


A2 2B

Hold-down clamp with pressure plate KLL 52

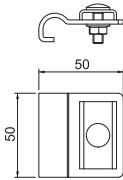
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
KLL 52 MD A2	52	10	26.352	6221075

Hold-down clamp for position fixing of horizontal cable ladders on horizontal steel girders.



LAW support profile

St FT

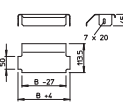


Type	Pack Piece	Weight kg/100 pc.	Item no.
LAW FT	10	9.200	6221513

Support bracket for creation of branches at different heights at a later date.

LALB support plate

St FT

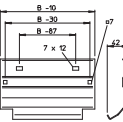
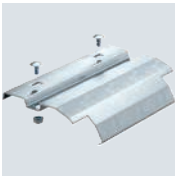


Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
LALB 20 FT	200	1	37.700	6221858
LALB 30 FT	300	1	53.000	6221866
LALB 40 FT	400	1	73.000	6221874
LALB 50 FT	500	1	86.000	6221882
LALB 60 FT	600	1	116.000	6221890

Support plate to increase the cable volume and for cable protection.

LAB exit plate

St FT

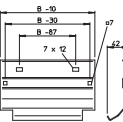


Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
LAB 20 FT	200	1	37.000	6220436
LAB 30 FT	300	1	58.000	6220444
LAB 40 FT	400	1	78.000	6220452
LAB 50 FT	500	1	99.000	6220460
LAB 60 FT	600	1	120.000	6220479

Exit plate for installation on the rung for vertically exiting cables.

LAB exit plate

A2 2B

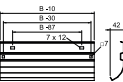


Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
LAB 20 A2	200	1	26.000	7164017
LAB 30 A2	300	1	38.000	7164025
LAB 40 A2	400	1	50.000	7164033
LAB 50 A2	500	1	63.000	7164041
LAB 60 A2	600	1	75.000	7164068

Exit plate for installation on the rung for vertically exiting cables.

Drop-out plate

St DD



Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
LABE 20 DD	200	1	40.000	6220622
LABE 30 DD	300	1	59.000	6220630
LABE 40 DD	400	1	80.000	6220649
LABE 50 DD	500	1	99.000	6220657

The exit plate can only be used when the rail and the rung form the end of the cable ladder.

Exit plate for installation on the rung for vertically exiting cables.

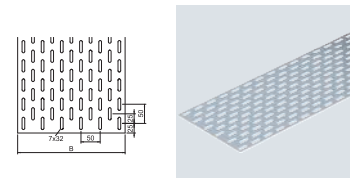
St FS FT

Type	Dim. B mm	Metal thick- ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
ELB-L 20 FS	200	1.00	3000	3	88.500	6103235
ELB-L 30 FS	300	1.00	3000	3	137.400	6103251
ELB-L 40 FS	400	1.00	3000	3	186.300	6103286
ELB-L 50 FS	500	1.00	3000	3	235.200	6103316
ELB-L 60 FS	600	1.00	3000	3	285.070	6103332
ELB-L 20 FT	200	1.00	3000	3	100.240	6103421
ELB-L 30 FT	300	1.00	3000	3	155.640	6103448
ELB-L 40 FT	400	1.00	3000	3	211.040	6103456
ELB-L 50 FT	500	1.00	3000	3	269.740	6103464
ELB-L 60 FT	600	1.00	3000	3	322.870	6103480

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.

ELB-L insertion plate



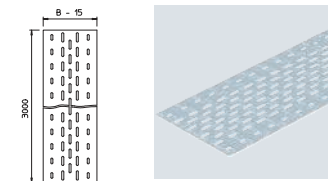
St DD

Type	Dim. B mm	Metal thick- ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
ELB-L 20 DD	200	1.00	3000	3	88.500	6103352
ELB-L 30 DD	300	1.00	3000	3	137.400	6103356
ELB-L 40 DD	400	1.00	3000	3	186.300	6103360
ELB-L 50 DD	500	1.00	3000	3	235.200	6103364
ELB-L 60 DD	600	1.00	3000	3	285.180	6103368

Insert plate for use in cable ladders.

For the fastening in wide span cable ladders use truss-head bolts with the combination nut of type FR SB 6x30.

ELB-L insertion plate



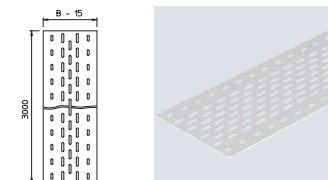
A2 2B

Type	Dim. B mm	Metal thick- ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
ELB-L20 A2	200	1.00	3000	3	94.400	6103614
ELB-L30 A2	300	1.00	3000	3	146.567	6103618
ELB-L40 A2	400	1.00	3000	3	198.700	6103622
ELB-L50 A2	500	1.00	3000	3	250.867	6103626
ELB-L60 A2	600	1.00	3000	3	303.033	6103630

Insert plate for use in cable ladders.

For the fastening in wide span cable ladders use truss-head bolts with the combination nut of type FR SB 6x30.

ELB-L insertion plate

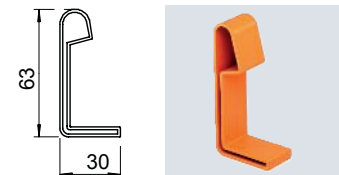


PE

Type	Colour	Pack Pair	Weight kg/100 pairs	Item no.
SKH 60 OR	Pastel orange	40	1.072	6222537

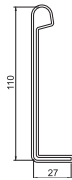
Protective cap to cover cable ladder ends of side height 60 mm.

Protective cap 60



End cap 110

PE

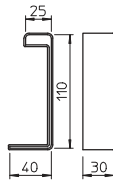


Type	Colour	Pack Pair	Weight kg/100 pairs	Item no.
SKH 110 OR	Pastel orange	20	1.345	6222553

End cap to cover cable ladder ends of side height 110 mm.

End cap 110

PVC

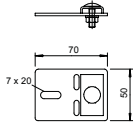


Type	Colour	Pack Pair	Weight kg/100 pairs	Item no.
SKHW 110 OR	Pastel orange	20	4.400	6310398

End cap to cover the ends of wide span cable ladders.

LAL 70 support

A2 2B

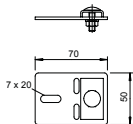


Type	Pack Piece	Weight kg/100 pc.	Item no.
LAL 70 A2	20	10.200	6221017

Support for fastening rising or falling cable ladders.

LAL 70 support

St FS

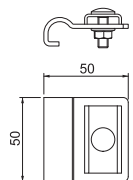


Type	Pack Piece	Weight kg/100 pc.	Item no.
LAL 70 FS	20	10.200	6221009

Support for fastening rising or falling cable ladders.

LAW support profile

St FT



Type	Pack Piece	Weight kg/100 pc.	Item no.
LAW FT	10	9.200	6221513

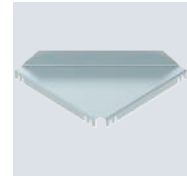
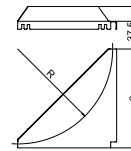
Support bracket for creation of branches at different heights at a later date.



St FS DD

Corner plate

Type	Dim.		Pack Piece	Weight kg/100 pc.	Item no.
	Radius mm	a mm			
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

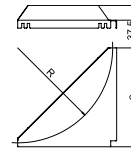


Corner plate to increase the radius and the cable supporting surface.

A2 2B

Corner plate

Type	Dim.		Pack Piece	Weight kg/100 pc.	Item no.
	Radius mm	a mm			
LEB 25 A2	250	250	1	64.300	6221207
LEB 50 A2	500	500	1	207.000	6221250

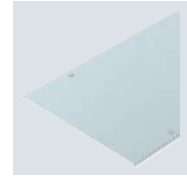
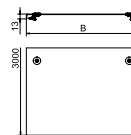


Corner plate to increase the radius and the cable supporting surface.

St FS FT DD

Cover with turn buckle

Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
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 100 FT	100	1.00	3000	3	106.670	6051340
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 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



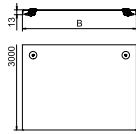
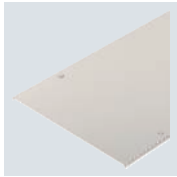
Transverse bead from 500 mm width.

Cover for cable trays and cable ladders with turn buckles.

When using covers outdoors, additional measures against the influence of wind must be taken.



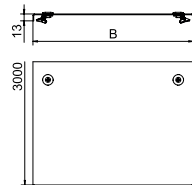
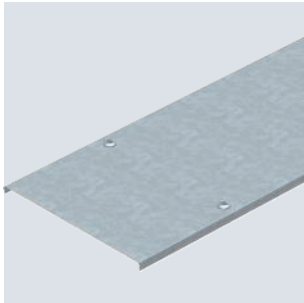
Cover with turn buckle



Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL 100 A2	100	1.00	3000	3	105.070	6052878
DRL 200 A2	200	1.00	3000	3	183.500	6052894
DRL 300 A2	300	1.00	3000	3	262.240	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	3	105.070	6052980
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 600 A4	600	1.25	3000	3	743.240	6052986

Transverse bead from 500 mm width.
 Cover for cable trays and cable ladders with three pairs of turn buckles.
 When using covers outdoors, additional measures against the influence of wind must be taken.

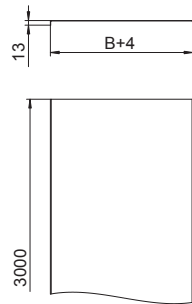
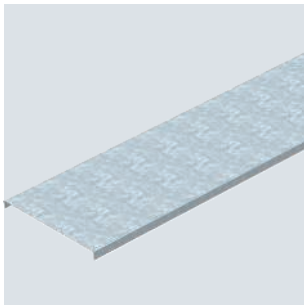
Cover with turn buckle 1,5 mm



Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL 1,5 100 FS	100	1.50	3000	3	152.000	6052097
DRL 1,5 200 FS	200	1.50	3000	3	269.950	6052208
DRL 1,5 100 FT	100	1.50	3000	3	165.000	6051345
DRL 1,5 200 FT	200	1.50	3000	3	290.670	6051370
DRL 1,5 300 FT	300	1.50	3000	3	416.334	6051387

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.

Unperforated cover



Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRLU 050 FS	50	1.00	3000	3	59.767	6052056
DRLU 100 FS	100	1.00	3000	3	99.000	6052103
DRLU 150 FS	150	1.00	3000	3	138.267	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	334.500	6052405
DRLU 500 FS	500	1.50	3000	3	619.234	6052512
DRLU 550 FS	550	1.50	3000	3	678.100	6052571
DRLU 600 FS	600	1.50	3000	3	737.000	6052609
DRLU 050 DD	50	1.00	3000	3	59.770	6052640
DRLU 100 DD	100	1.00	3000	3	99.000	6052643
DRLU 150 DD	150	1.00	3000	3	138.267	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	1.50	3000	3	619.234	6052668
DRLU 550 DD	550	1.50	3000	3	678.100	6052671
DRLU 600 DD	600	1.50	3000	3	737.000	6052674

Cover for cable trays and mesh cable trays.
 When using covers outdoors, additional measures against the influence of wind must be taken.
 Transverse bead from 500 mm width.

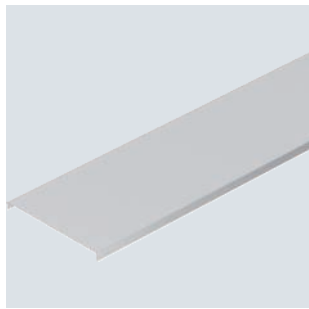
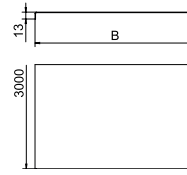
A2 A4 2B

Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRLU 050 A2	50	1.00	3000	3	59.767	6052821
DRLU 100 A2	100	1.00	3000	3	99.000	6052824
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	1.50	3000	3	619.167	6052841
DRLU 600 A2	600	1.50	3000	3	736.900	6052844
DRLU 100 A4	100	1.00	3000	3	99.000	6052991
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	619.167	6052996
DRLU 600 A4	600	1.25	3000	3	736.900	6052998

Cover for cable trays and mesh cable trays.

When using covers outdoors, additional measures against the influence of wind must be taken.

Transverse bead from 500 mm width.



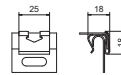
Unperforated cover

VA 2B

Type	Pack Piece	Weight kg/100 pc.	Item no.
DK DRLU A2	30	0.842	6052810

Cover clamp for secure fastening of covers on cable trays and cable ladders.

At least 6 cover clamps should be mounted for each 3 metres of cover.



Cover clamp

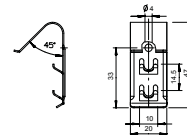
VA 2B

Type	Pack Piece	Weight kg/100 pc.	Item no.
DKU A2	20	0.794	6065600

Cover clamp for universal fastening of covers on cable trays, mesh cable trays and AZ small ducts.

The cover clamp is not suitable for use with mesh cable trays with a side height of 35 mm.

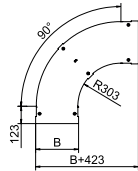
Depending on the tray width, 4-6 cover clamps are required for secure fastening of a 3 m cover.



Cover clamp, universal



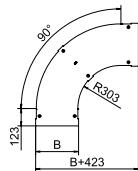
Cover for 90° bend LBD R3



Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
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

Cover with turn buckles for covering 90° cable ladder bends with welded rungs.

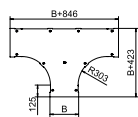
Cover for 90° bend LBD R3



Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
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

Cover with turn buckles for covering 90° cable ladder bends with welded rungs.

Cover for LTD R3 T piece



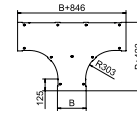
Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LTD 200 R3 FS	200	1.00	1	274.000	6226100
LTD 300 R3 FS	300	1.00	1	413.000	6226102
LTD 400 R3 FS	400	1.00	1	567.000	6226104
LTD 500 R3 FS	500	1.25	1	737.000	6226106
LTD 600 R3 FS	600	1.25	1	922.000	6226108
LTD 200 R3 FT	200	1.00	1	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

Cover with turn buckles for covering T pieces with welded rungs.

A2 A4 2B

Cover for LTD R3 T piece

Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
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

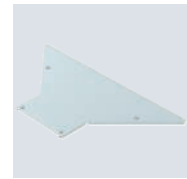
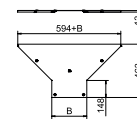


Cover with turn buckles for covering T pieces with welded rungs.

St FS FT

Cover for add-on tee LAAD R3

Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LAAD 200 R3 FS	200	1.00	1	171.000	6226310
LAAD 300 R3 FS	300	1.00	1	203.000	6226312
LAAD 400 R3 FS	400	1.00	1	303.000	6226314
LAAD 500 R3 FS	500	1.25	1	351.000	6226316
LAAD 600 R3 FS	600	1.25	1	397.000	6226318
LAAD 200 R3 FT	200	1.00	1	180.000	6226330
LAAD 300 R3 FT	300	1.00	1	219.000	6226332
LAAD 400 R3 FT	400	1.00	1	316.000	6226334
LAAD 450 R3 FT	450	1.25	1	341.000	6226336
LAAD 500 R3 FT	500	1.25	1	365.000	6226338
LAAD 600 R3 FT	600	1.25	1	414.000	6226340
LAAD 750 R3 FT	750	1.25	1	504.000	6226342
LAAD 800 R3 FT	800	1.25	1	528.000	6226344
LAAD 900 R3 FT	900	1.25	1	578.000	6226346
LAAD 1000 R3 FT	1000	1.25	1	624.000	6226348
LAAD 1200 R3 FT	1200	1.25	1	722.000	6226352

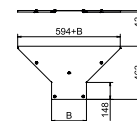


Cover with turn buckles for covering add-on tee with welded rungs.

A2 A4 2B

Cover for add-on tee

Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LAAD 200 R3 A2	200	1.00	1	180.000	6226361
LAAD 300 R3 A2	300	1.00	1	219.000	6226363
LAAD 400 R3 A2	400	1.25	1	316.000	6226365
LAAD 500 R3 A2	500	1.25	1	365.000	6226367
LAAD 600 R3 A2	600	1.25	1	414.000	6226369
LAAD 200 R3 A4	200	1.00	1	180.000	6226381
LAAD 300 R3 A4	300	1.00	1	219.000	6226383
LAAD 400 R3 A4	400	1.25	1	316.000	6226385
LAAD 500 R3 A4	500	1.25	1	365.000	6226387
LAAD 600 R3 A4	600	1.25	1	414.000	6226389

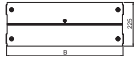


Cover with turn buckles for covering add-on tees with welded rungs.



Cover for LGBED adjustable vertical bend element

St FS FT

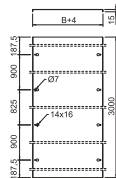
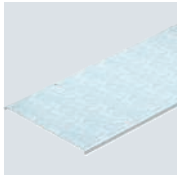


Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LGBED 200 FS	200	1.00	1	42.000	6226210
LGBED 300 FS	300	1.00	1	60.000	6226212
LGBED 400 FS	400	1.00	1	78.000	6226214
LGBED 500 FS	500	1.25	1	117.000	6226216
LGBED 600 FS	600	1.25	1	139.000	6226218
LGBED 200 FT	200	1.00	1	45.000	6226230
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

Cover with sash locks for covering adjustable bends with welded rungs.

Cover for stand-off mounting

St FT



Type	Width mm	Metal 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

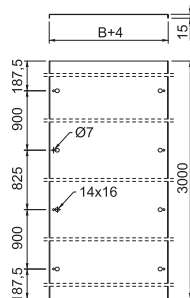
Spacers must be ordered separately for every 3 m under article number 6065475 for cable trays and cable ladders as well as under article number 6065477 for wide span systems.

Cover for stand-off mounting. Not suitable for the vertical ladders SLM and SLS.

When using covers outdoors, additional measures against the influence of wind must be taken.

Cover for stand-off mounting

A2 A4 2B



Type	Width mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
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

Spacers must be ordered separately for every 3 m under article number 6065475 for cable trays and cable ladders as well as under article number 6065477 for wide span systems.

Cover for stand-off mounting. Not suitable for the vertical ladders SLM and SLS.

When using covers outdoors, additional measures against the influence of wind must be taken.

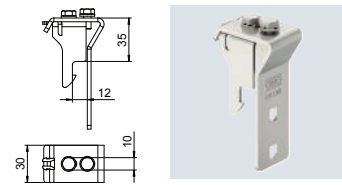


A2 2B

Spacer for cover

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
AH 35 A2	35	8	14.100	6065475

Spacers for stand-off cover mounting on cable trays and cable ladders. Space height 35 mm, stainless steel 1.4301.



St FS FT

Rung C30, perforated

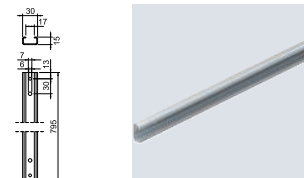
Type	Pack Piece	Weight kg/100 pc.	Item no.
SPR C30 195 FS	3500	13.300	6009959
SPR C30 295 FS	2500	19.700	6009961
SPR C30 395 FS	2000	26.200	6009963
SPR C30 495 FS	1800	32.600	6009965
SPR C30 595 FS	1500	39.000	6009967
SPR C30 195 FT	3500	14.200	6009979
SPR C30 295 FT	2000	27.900	6009983
SPR C30 495 FT	1800	34.800	6009985
SPR C30 595 FT	1500	41.600	6009987



St FS

Rung C30, unperforated

Type	Pack Piece	Weight kg/100 pc.	Item no.
SPR C30 795 FS	1000	58.000	6009969
SPR C30 995 FS	1000	72.000	6009971





Vertical ladder systems

OBO vertical ladder systems for vertical routing of all kinds of cables. Available as light-duty vertical ladders with a side height of 45 mm, as a heavy-duty vertical ladder with U profiles and industrial vertical ladders with I profiles. Both the heavy-duty and industrial vertical ladders can be assembled in variable lengths.



Vertical ladder systems

Installation principle

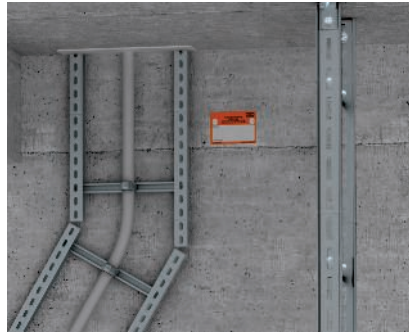


- | | |
|---|----------------------------------|
| 1 | Light-duty vertical ladder |
| 2 | Heavy-duty vertical ladder |
| 3 | Industrial vertical cable ladder |
| 4 | Cover with spacer |
| 5 | Rung seat with MS4022 rung |

Mounting aid



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



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



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



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



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



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



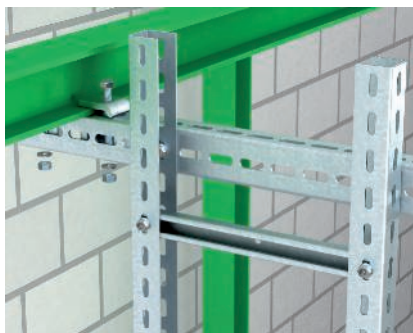
Wall mounting, light-duty vertical ladder
Wall mounting of light-duty vertical ladder, type SLL 45, with wall bracket, type WB 30/75.



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



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



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



Cable fastening with U clamp
Fastening of cables to the rung with clamp clips.



Fastening of industrial vertical ladder
Wall mounting of industrial vertical ladder with mounting angle, type BW 80/55.





Fastening of C profile rung

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



Fastening of angle rung

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



Ceiling fastening

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



Illustration of vertical shaft

Illustration of complete vertical ladder mounting.



Rung seat fixed to IS 8 support

Fastening of the rung seat, type SA, with profile rail, type MS 4022, in I support.



Rung seat in steel girder

Direct fastening (clamping) of the rung seat, type SAA, with profile rail, type MS 4022, on steel girder.



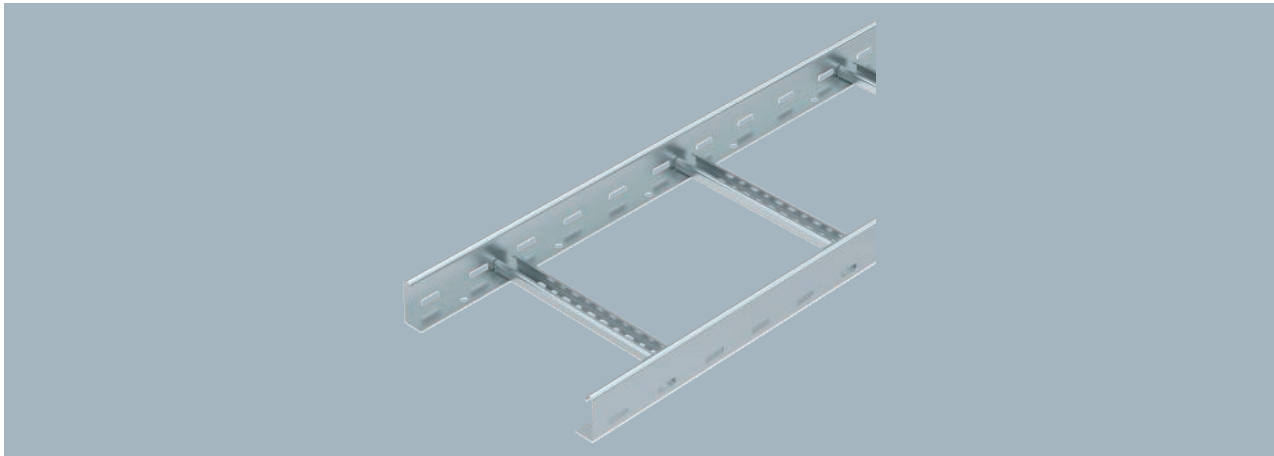
Cover mounting, vertical

Installation of the cover with spacer on a vertical ladder.



Cable ladder LG 60, 3 m VS

St FS FT

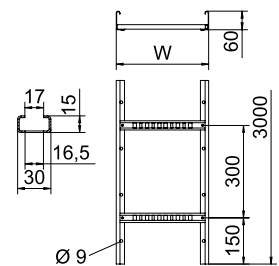


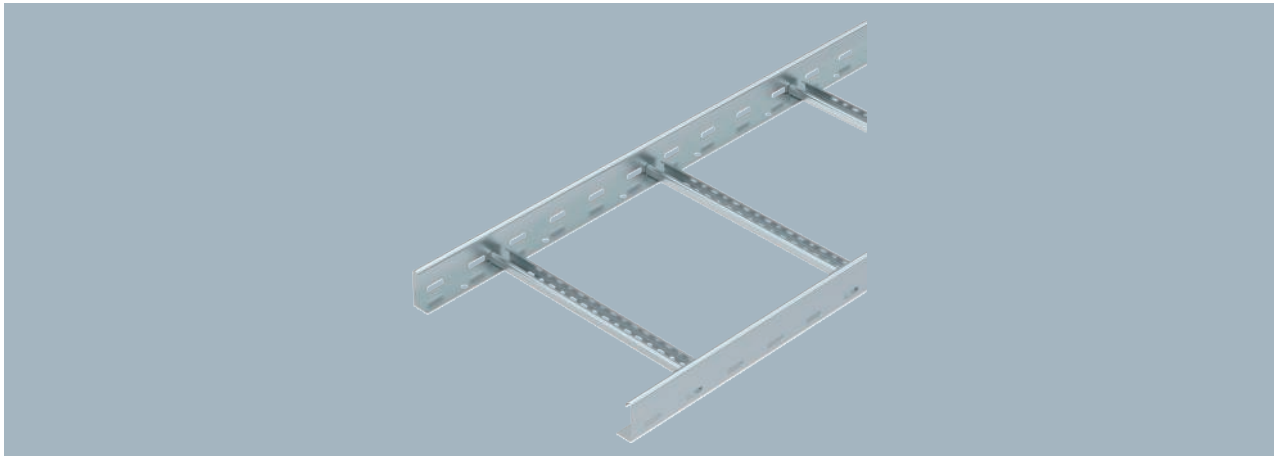
Type	Width		Pack m	Weight kg/100 m	Item no.
	mm	BS			
LG 620 VS 3 FS	200		3	267.000	6208538
LG 630 VS 3 FS	300		3	288.933	6208541
LG 640 VS 3 FS	400		3	314.600	6208544
LG 650 VS 3 FS	500		3	332.600	6208547
LG 660 VS 3 FS	600		3	354.266	6208550
LG 620 VS 3 FT	200		3	285.066	6208562
LG 630 VS 3 FT	300		3	308.000	6208566
LG 640 VS 3 FT	400		3	331.000	6208570
LG 650 VS 3 FT	500		3	354.733	6208574
LG 660 VS 3 FT	600		3	385.400	6208578

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 that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for maintenance of electrical function, 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	Dim. B mm	Rail thick- ness mm	Usable 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

Dimensions

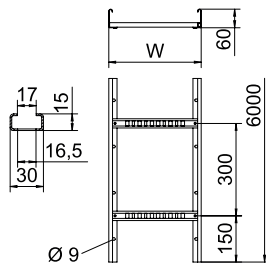




The cable ladder is shipped folded up.
Cables can be mounted with the matching clamp clip, type 2056.
The cable ladders in the widths 200 mm to 400 mm are also approved for vertical mounting as a vertical ladder in systems that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for maintenance of electrical function, 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	Width mm	BS	Pack m	Weight kg/100 m	Item no.
LG 620 VS 6 FS	200		6	267.066	6208627
LG 630 VS 6 FS	300		6	288.733	6208630
LG 640 VS 6 FS	400		6	314.400	6208633
LG 650 VS 6 FS	500		6	332.400	6208636
LG 660 VS 6 FS	600		6	354.066	6208639
LG 620 VS 6 FT	200		6	284.833	6208650
LG 630 VS 6 FT	300		6	307.833	6208653
LG 640 VS 6 FT	400		6	330.833	6208656
LG 650 VS 6 FT	500		6	354.500	6208659
LG 660 VS 6 FT	600		6	385.166	6208661

Dimensions

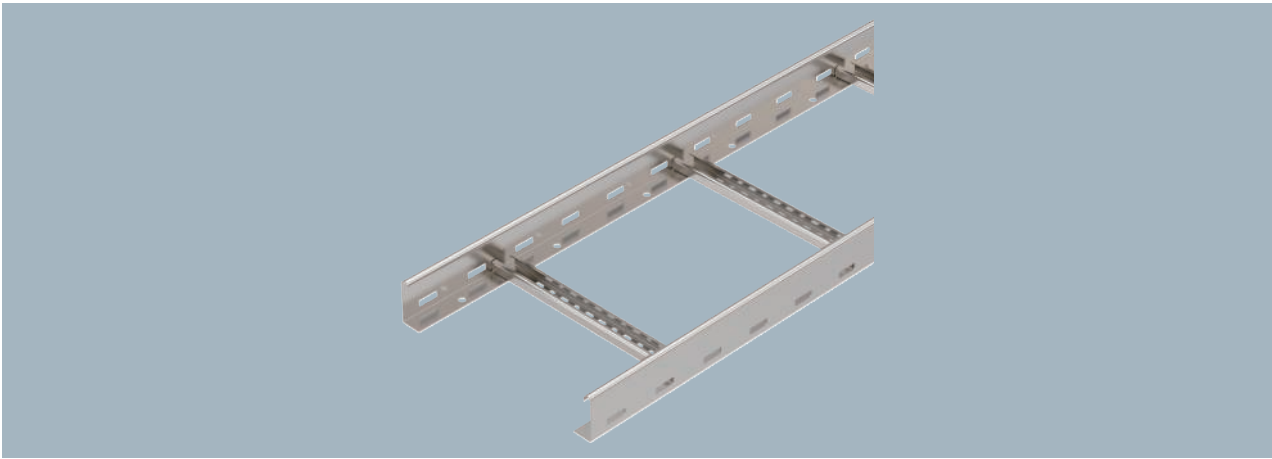


Type	Length mm	Dim. B mm	Rail thick- ness mm	Usable cross- section cm ²	Rung spacing mm
LG 620 VS 6 FS	6000	200	1.5	98	300
LG 630 VS 6 FS	6000	300	1.5	148	300
LG 640 VS 6 FS	6000	400	1.5	198	300
LG 650 VS 6 FS	6000	500	1.5	248	300
LG 660 VS 6 FS	6000	600	1.5	298	300



Cable ladder LG 60, 6 m VS

A2 A4 2B



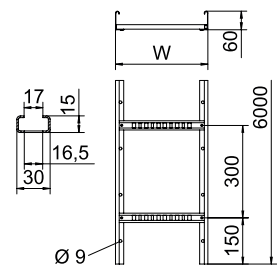
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 620 VS6 A2	200	6	267.067	6208700
LG 630 VS6 A2	300	6	288.733	6208703
LG 640 VS6 A2	400	6	314.400	6208706
LG 650 VS6 A2	500	6	332.400	6208709
LG 660 VS6 A2	600	6	354.066	6208712
LG 620 VS6 A4	200	6	267.733	6101200
LG 630 VS6 A4	300	6	288.733	6101208
LG 640 VS6 A4	400	6	314.400	6101216
LG 650 VS6 A4	500	6	341.666	6101223
LG 660 VS6 A4	600	6	354.000	6101232

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 60 mm with riveted C profile frames, open in an upwards direction (VS version).

Type	Length mm	Dim. B mm	Rail thick- ness mm	Usable cross- section cm ²	Rung spacing mm
LG 620 VS6 A2	6000	200	1.5	98	300
LG 630 VS6 A2	6000	300	1.5	148	300
LG 640 VS6 A2	6000	400	1.5	198	300
LG 650 VS6 A2	6000	500	1.5	248	300
LG 660 VS6 A2	6000	600	1.5	298	300

Dimensions



St FS



SLL 45 medium-duty vertical ladder, 3 m

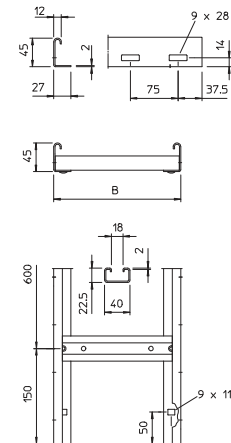
Type	Width mm	Length mm	Weight kg/100 m	Item no.
SLL 45 30 CP FS	300	3000	324.333	6011908



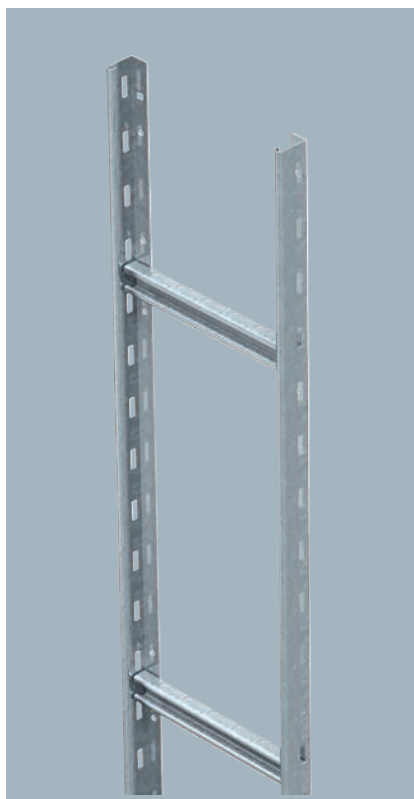
Vertical ladder with a side height of 45 mm with riveted C profile rungs, open in upwards direction. DIN VDE 0100-520 must be taken into account when routing cables. The appropriate clamp clip is type 2056U.

Type	Length mm	Dim. B mm	Rung spacing mm
SLL 45 30 CP FS	3000	300	600

Dimensions



SLL 45 medium-duty vertical ladder, 6 m

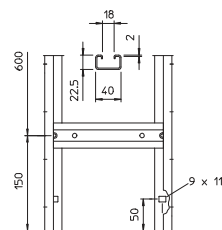
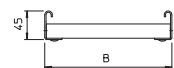
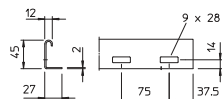


Type	Width mm	Length mm	Weight kg/100 m	Item no.
SLL 45 50 CP FS	500	6000	376.667	6011959

Vertical ladder with a side height of 45 mm with riveted C profile rungs, open in upwards direction. DIN VDE 0100-520 must be taken into account when routing cables.

The appropriate clamp clip is type 2056U.

Dimensions



Type	Length mm	Dim. B mm	Rung spacing mm
SLL 45 50 CP FS	6000	500	600



St FS



SLL 60 medium-duty vertical ladder, 6 m

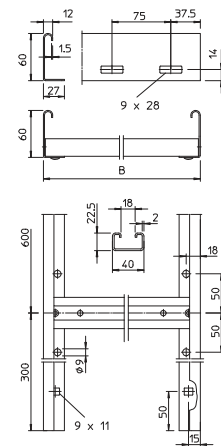
Type	Width mm	Rail thickness mm	Pack m	Weight kg/100 m	Item no.
SLL 620 CPS 4 FS	200	1.5	6	274.600	6010620
SLL 630 CPS 4 FS	300	1.5	6	300.767	6010622
SLL 640 CPS 4 FS	400	1.5	6	326.933	6010624
SLL 650 CPS 4 FS	500	1.5	6	353.267	6010626
SLL 660 CPS 4 FS	600	1.5	6	379.433	6010628



Vertical ladder with a side height of 60 mm with riveted C profile rungs, open in upwards direction. 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.

Type	Length mm	Rung spacing mm
SLL 620 CPS 4 FS	6000	600
SLL 630 CPS 4 FS	6000	600
SLL 640 CPS 4 FS	6000	600
SLL 650 CPS 4 FS	6000	600
SLL 660 CPS 4 FS	6000	600

Dimensions



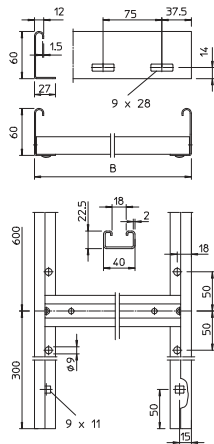
SLL 60 medium-duty vertical ladder, 6 m



Type	Width mm	Rail thickness mm	Pack m	Weight kg/100 m	Item no.
SLL 620 CPS 4 FT	200	1.5	6	291.933	6010630
SLL 630 CPS 4 FT	300	1.5	6	319.433	6010632
SLL 640 CPS 4 FT	400	1.5	6	346.933	6010634
SLL 650 CPS 4 FT	500	1.5	6	374.600	6010636
SLL 660 CPS 4 FT	600	1.5	6	401.933	6010638

Vertical ladder with a side height of 60 mm with riveted C profile rungs, open in upwards direction. 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.

Dimensions



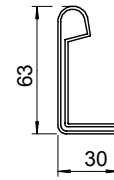
Type	Length mm	Dim. B mm	Rung spacing mm
SLL 620 CPS 4 FT	6000	200	600
SLL 630 CPS 4 FT	6000	300	600
SLL 640 CPS 4 FT	6000	400	600
SLL 650 CPS 4 FT	6000	500	600
SLL 660 CPS 4 FT	6000	600	600



PE

Type	Colour	Pack Pair	Weight kg/100 pairs	Item no.
SKH 60 OR	Pastel orange	40	1.072	6222537

Protective cap to cover cable ladder ends of side height 60 mm.

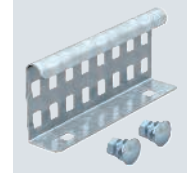
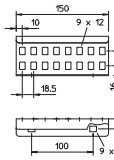


Protective cap 60

St FS FT

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LVG 60 FS	60	10	22.000	6208840
LVG 60 FT	60	10	23.000	6208843

Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.
The bolt fastening ensures the continuity of the equipotential bonding.

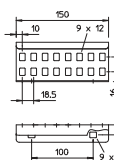


Straight connector 60

A2 A4 2B

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LVG 60 A2	60	10	22.000	6208846
LVG 60 A4	60	10	20.000	6208835

Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.
The bolt fastening ensures the continuity of the equipotential bonding.

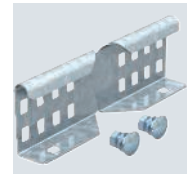
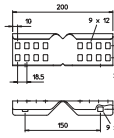


Straight connector 60

St FS

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LWVG 60 FS	60	10	24.000	6208895

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.

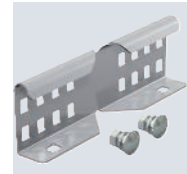
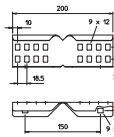


Angle connector 60

A2 A4 2B

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LWVG 60 A2	60	10	24.000	6208898
LWVG 60 A4	60	10	24.256	6208891

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.

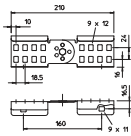
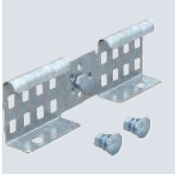


Angle connector 60



Adjustable connector 60

St FS FT

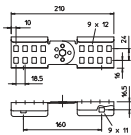
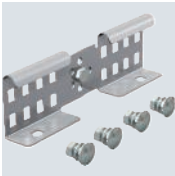


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LGVG 60 FS	60	10	28.500	6208941
LGVG 60 FT	60	10	29.900	6208944

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.
The bolt fastening ensures the continuity of the equipotential bonding.

Adjustable connector 60

A2 A4 2B

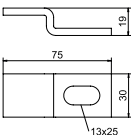
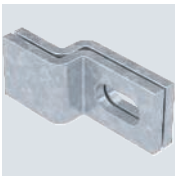


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LGVG 60 A2	60	10	28.500	6208947
LGVG 60 A4	60	10	28.500	6208932

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.
The bolt fastening ensures the continuity of the equipotential bonding.

Wall bracket

St FT

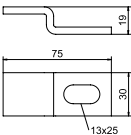


Type	Pack Piece	Weight kg/100 pc.	Item no.
WB 30 75 FT	10	18.100	6019617

Wall bracket for the fastening of light-weight vertical ladders type SLL, to concrete walls and masonry.

Wall bracket

A2 2B

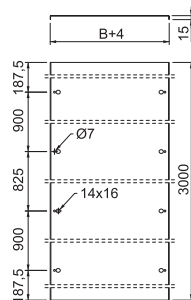
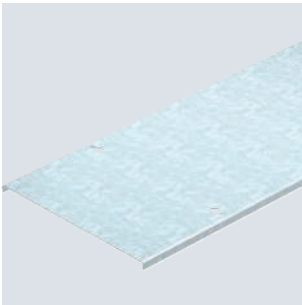


Type	Pack Piece	Weight kg/100 pc.	Item no.
WB 30 75 A2	10	18.000	6019668

Wall bracket for the fastening of light-weight vertical ladders type SLL, to concrete walls and masonry.

Cover for stand-off mounting

St FT



Type	Width mm	Metal 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

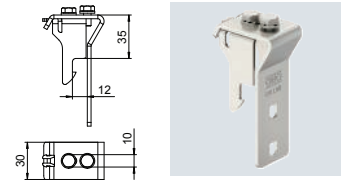
Spacers must ordered separately for every 3 m under article number 6065475 for cable trays and cable ladders as well as under article number 6065477 for wide span systems.
Cover for stand-off mounting. Not suitable for the vertical ladders SLM and SLS.
When using covers outdoors, additional measures against the influence of wind must be taken.

A2 2B

Spacer for cover

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
AH 35 A2	35	8	14.100	6065475

Spacers for stand-off cover mounting on cable trays and cable ladders. Space height 35 mm, stainless steel 1.4301.



Heavy-duty vertical cable ladder SLM 50, 3 m C40

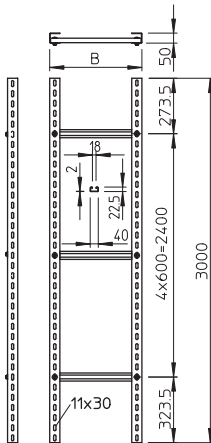


Type	Width mm	Rail thickness mm	Pack m	Weight kg/100 m	Item no.
SLM 50 C40 2 FT	200	2.5	3	572.500	6010466
SLM 50 C40 3 FT	300	2.5	3	600.167	6010474
SLM 50 C40 4 FT	400	2.5	3	627.833	6010482
SLM 50 C40 5 FT	500	2.5	3	655.333	6010490
SLM 50 C40 6 FT	600	2.5	3	683.000	6010504
SLM 50 C40 7 FT	700	2.5	3	710.667	6010512
SLM 50 C40 8 FT	800	2.5	3	738.167	6010520
SLM 50 C40 9 FT	900	2.5	3	765.833	6010539
SLM 50 C40 10 FT	1000	2.5	3	793.500	6010547
SLM 50 C40 11 FT	1100	2.5	3	821.000	6010555
SLM 50 C40 12 FT	1200	2.5	3	848.667	6010563

The vertical ladder with a 50 mm side height is shipped in an unmounted state and must be screwed together on the construction site.

The appropriate clamp clip for the C profile rung is type 2056U.

Dimensions



Type	Length mm	Dim. B mm	Rung spacing mm
SLM 50 C40 2 FT	3000	200	600
SLM 50 C40 3 FT	3000	300	600
SLM 50 C40 4 FT	3000	400	600
SLM 50 C40 5 FT	3000	500	600
SLM 50 C40 6 FT	3000	600	600
SLM 50 C40 7 FT	3000	700	600
SLM 50 C40 8 FT	3000	800	600
SLM 50 C40 9 FT	3000	900	600
SLM 50 C40 10 FT	3000	1000	600
SLM 50 C40 11 FT	3000	1100	600
SLM 50 C40 12 FT	3000	1200	600

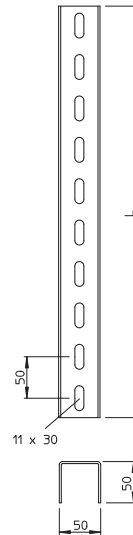
St FT

US 5 support

Type	Length mm	Material thickness mm	BS	Pack Piece	Weight kg/100 pc.	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

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

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.

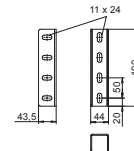


St FT

VUS 5 U support connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 5 FT	10	61.000	6018505

U support connector to connect US 5 supports.
Including appropriate fastening material.

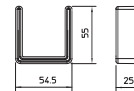


PE

Protective cap

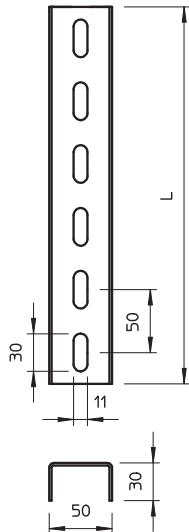
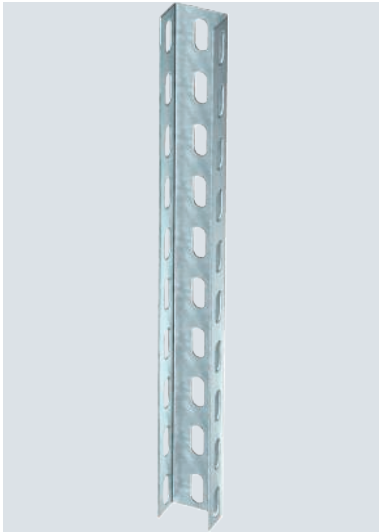
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
US 5 KS OR	Pastel orange	20	1.300	6338462

Protective cap to cover the ends of US 5 supports.



US 3 support

St FT



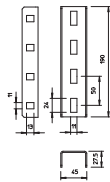
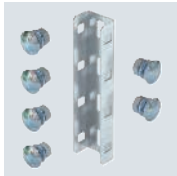
Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
US 3 600 FT	6000	2	1	834.000	6342450

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

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.

VUS 3 U support connector

St FT

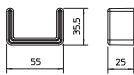


Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 3 FT	10	48.300	6018513

U support connector to connect US 3 supports.
Including appropriate fastening material.

Protective cap

PE



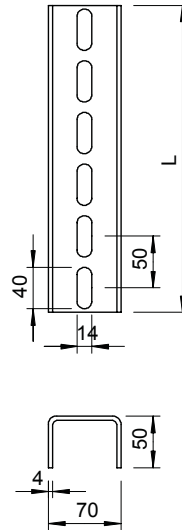
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
US 3 KS OR	Pastel orange	20	1.068	6338458

Protective cap to cover the ends of US 3 supports.

St FT

US 7 support

Type	Length mm	Material thickness mm	BS	Pack Piece	Weight kg/100 pc.	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	160.700	6340059
US 7 50 FT	500	4		1	200.900	6340075
US 7 60 FT	600	4		1	241.100	6340091
US 7 70 FT	700	4		1	281.300	6340113
US 7 80 FT	800	4		1	323.000	6340148
US 7 100 FT	1000	4		1	416.000	6340180
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	803.700	6340296
US 7 250 FT	2500	4		1	1,009.000	6340385
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



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

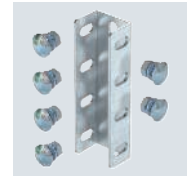
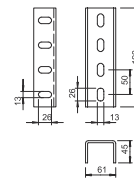
For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

St FT

VUS 7 U support connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 7 FT	10	112.800	6018378

U support connector to connect US 7 supports.
Including appropriate fastening material.

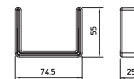


PE

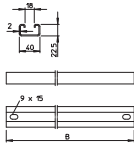
End cap

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
US 7 KS OR	Pastel orange	20	1.806	6338497

Protective cap to cover the ends of US 7 supports.



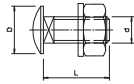
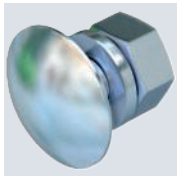
MS4022 profile rail, heavy-duty, slot 18 mm



Type	Material thickness mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
MS4022P0192FT	2	192	1	31.800	6007201
MS4022P0292FT	2	292	1	44.700	6007228
MS4022P0392FT	2	392	1	60.100	6007236
MS4022P0492FT	2	492	1	81.500	6007244
MS4022P0592FT	2	592	1	96.000	6007252
MS4022P0692FT	2	692	1	113.000	6007260
MS4022P0792FT	2	792	1	130.000	6007279
MS4022P0892FT	2	892	1	145.000	6007287
MS4022P0992FT	2	992	1	162.000	6007295
MS4022P1092FT	2	1092	1	178.000	6007309
MS4022P1192FT	2	1192	1	197.500	6007317

MS4022 profile rail for use as rung in heavy-duty ladders.

Truss-head bolt with nut and washer

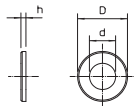
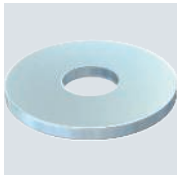


Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRS 8x16 F 8.8	M8x16	16	8	20	8.8	50	1.947	6406963
FRS 8x25 F	M8x25	25	8	20	8.8	50	2.217	6406998
FRS 8x35 F	M8x35	35	8	20	5.6	50	2.431	6407048

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

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

Large washer



Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
DIN440 9 F	M8	9	28	3	100	1.057	6408710

Washer of particularly large outer diameter.

St FT



Industrial vertical cable ladder, 6 m C40

Type	Width mm	Pack m	Weight kg/100 m	Item no.
SLS 80 C40 2 FT	200	6	1,277.167	6013384
SLS 80 C40 3 FT	300	6	1,304.833	6013392
SLS 80 C40 4 FT	400	6	1,286.667	6013406
SLS 80 C40 5 FT	500	6	1,360.000	6013414
SLS 80 C40 6 FT	600	6	1,387.667	6013422
SLS 80 C40 7 FT	700	6	1,415.333	6013430
SLS 80 C40 8 FT	800	6	1,443.000	6013449
SLS 80 C40 9 FT	900	6	1,470.667	6013457
SLS 80 C40 10 FT	1000	6	1,498.167	6013465
SLS 80 C40 11 FT	1100	6	1,525.833	6013473
SLS 80 C40 12 FT	1200	6	1,553.333	6013481



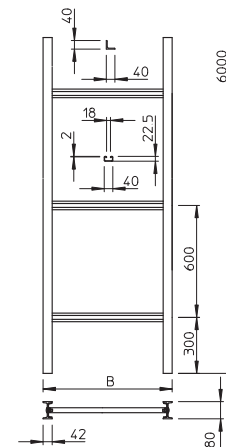
Vertical ladder of side height 80 mm with screwed-in rungs.

The vertical ladder is shipped in an unmounted state.

The appropriate clamp clip is type 2056U.

Type	Length mm	Dim. B mm	Rung spacing mm
SLS 80 C40 2 FT	6000	200	600
SLS 80 C40 3 FT	6000	300	600
SLS 80 C40 4 FT	6000	400	600
SLS 80 C40 5 FT	6000	500	600
SLS 80 C40 6 FT	6000	600	600
SLS 80 C40 7 FT	6000	700	600
SLS 80 C40 8 FT	6000	800	600
SLS 80 C40 9 FT	6000	900	600
SLS 80 C40 10 FT	6000	1000	600
SLS 80 C40 11 FT	6000	1100	600
SLS 80 C40 12 FT	6000	1200	600

Dimensions



Industrial vertical cable ladder, 6 m W40

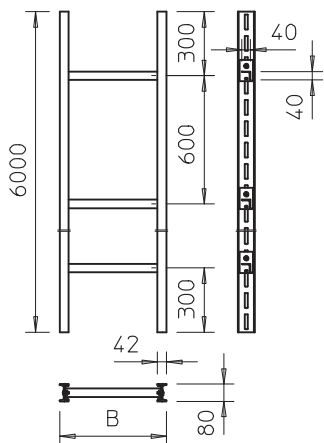
St FT



Type	Width mm	Pack m	Weight kg/100 m	Item no.
SLS 80 W40 4 FT	400	6	1,373.500	6013848
SLS 80 W40 5 FT	500	6	1,414.833	6013856
SLS 80 W40 6 FT	600	6	1,454.000	6013864
SLS 80 W40 7 FT	700	6	1,494.833	6013872
SLS 80 W40 8 FT	800	6	1,536.667	6013880
SLS 80 W40 9 FT	900	6	1,586.000	6013899
SLS 80 W40 10 FT	1000	6	1,627.167	6013902

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.

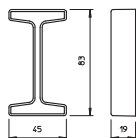
Dimensions



Type	Length mm	Dim. B mm	Rung spacing mm
SLS 80 W40 4 FT	6000	400	600
SLS 80 W40 5 FT	6000	500	600
SLS 80 W40 6 FT	6000	600	600
SLS 80 W40 7 FT	6000	700	600
SLS 80 W40 8 FT	6000	800	600
SLS 80 W40 9 FT	6000	900	600
SLS 80 W40 10 FT	6000	1000	600

End cap

PE



Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
IS 8 KS OR	Pastel orange	20	0.705	6338519

End cap to cover the ends of IS 8 supports.



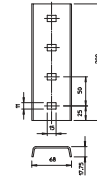
St FT



VIS 8 I support connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
VIS 8 FT	10	87.000	6018300

I support connector to connect IS 8 supports.
Including appropriate fastening material.

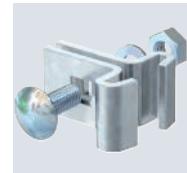
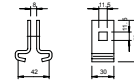


St FT

Support claw

Type	Pack Piece	Weight kg/100 pc.	Item no.
TGK 30 42 FT	10	17.000	6018963

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.

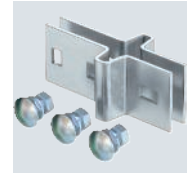
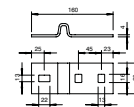


St FT

Support strap

Type	Pack Piece	Weight kg/100 pc.	Item no.
AHS 8 FT	10	89.900	6019064

Including appropriate fastening material.
Support strap for right-angled connection of I supports.

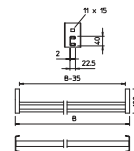


St FT

Rung CK 40

Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
CK 40 20 FT	154	1	62.300	6008224
CK 40 30 FT	254	1	95.500	6008232
CK 40 40 FT	354	1	95.500	6008240
CK 40 50 FT	454	1	112.000	6008259
CK 40 60 FT	554	1	128.600	6008267
CK 40 70 FT	654	1	145.200	6008275
CK 40 80 FT	754	1	162.000	6008283
CK 40 90 FT	854	1	178.400	6008291
CK 40 100 FT	954	1	194.900	6008305
CK 40 110 FT	1054	1	211.500	6008313
CK 40 120 FT	1154	1	228.000	6008321

The maximum rung load is 175 kg.
CK40 rung for use in heavy-duty vertical ladders and in IS 8 supports.

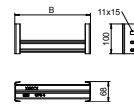


St FT

Rung CKD 40

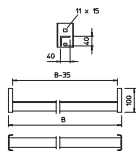
Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
CKD 40 60 FT	554	1	211.000	6008269
CKD 40 70 FT	654	1	243.000	6008277
CKD 40 80 FT	754	1	275.000	6008285
CKD 40 90 FT	854	1	307.000	6008293

The maximum rung load is 175 kg.
CKD40 rung for use in heavy-duty vertical ladders and in IS 8 supports.



Rung WSK 40

St FT

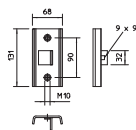


Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
WSK 40 40 FT	354	1	122.000	6008046
WSK 40 50 FT	454	1	147.000	6008054
WSK 40 60 FT	554	1	172.000	6008062
WSK 40 70 FT	654	1	197.000	6008070
WSK 40 80 FT	754	1	222.000	6008089
WSK 40 90 FT	854	1	245.000	6008097
WSK 40 100 FT	954	1	272.000	6008100

The maximum rung load is 250 kg.
Angle profile rungs for use in heavy-duty vertical ladders and in IS 8 supports.

Rung seat

St FT

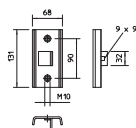


Type	Pack Pair	Weight kg/100 pairs	Item no.
SA MS4022 FT	5	84.000	6007496

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

St FT



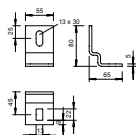
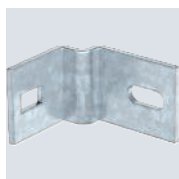
Type	Pack Pair	Weight kg/100 pairs	Item no.
SAA MS4022 FT	5	82.600	6007498

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.

System accessories

Mounting angle BW 80

St FT

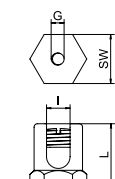


Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 80 55 FT	10	32.900	6019528

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.

Earthing terminal with fastening thread

CuZn
37



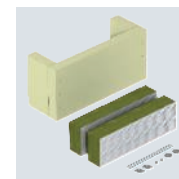
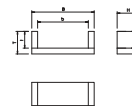
Type	Dim. L mm	Dim. I mm	Cross- section mm ²	Thread	Pack Piece	Weight kg/100 pc.	Item no.
EKL 25 M8	26	10	50	M8	50	3.970	6404001

Earthing terminal for fastening the equipotential bonding wire to the cable support system.
Suitable for conductor cross sections of 4–50 mm².



Strain relief, three-sided, with mineral wool, interior height 115 mm

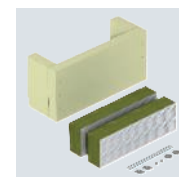
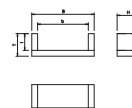
Type	Dim. b mm	Dim. t mm	Dim. H mm	Dim. B mm	Dim. T mm	Pack Piece	Weight kg/100 pc.	Item no.
ZSE90-25-11	250	115	140	340	160	1	376.000	7215702
ZSE90-35-11	350	115	140	440	160	1	466.000	7215706
ZSE90-45-11	450	115	140	540	160	1	506.000	7215709



Strain relief as an effective support measure for vertical cable routing, according to DIN 4102 Part 12, approved for all cable types and all vertical routing systems. Maintenance of electrical function classes E30 to E90. Housing including mineral fibre panels, fastening material, ASX fire protection coating in cartridge and identification plate.

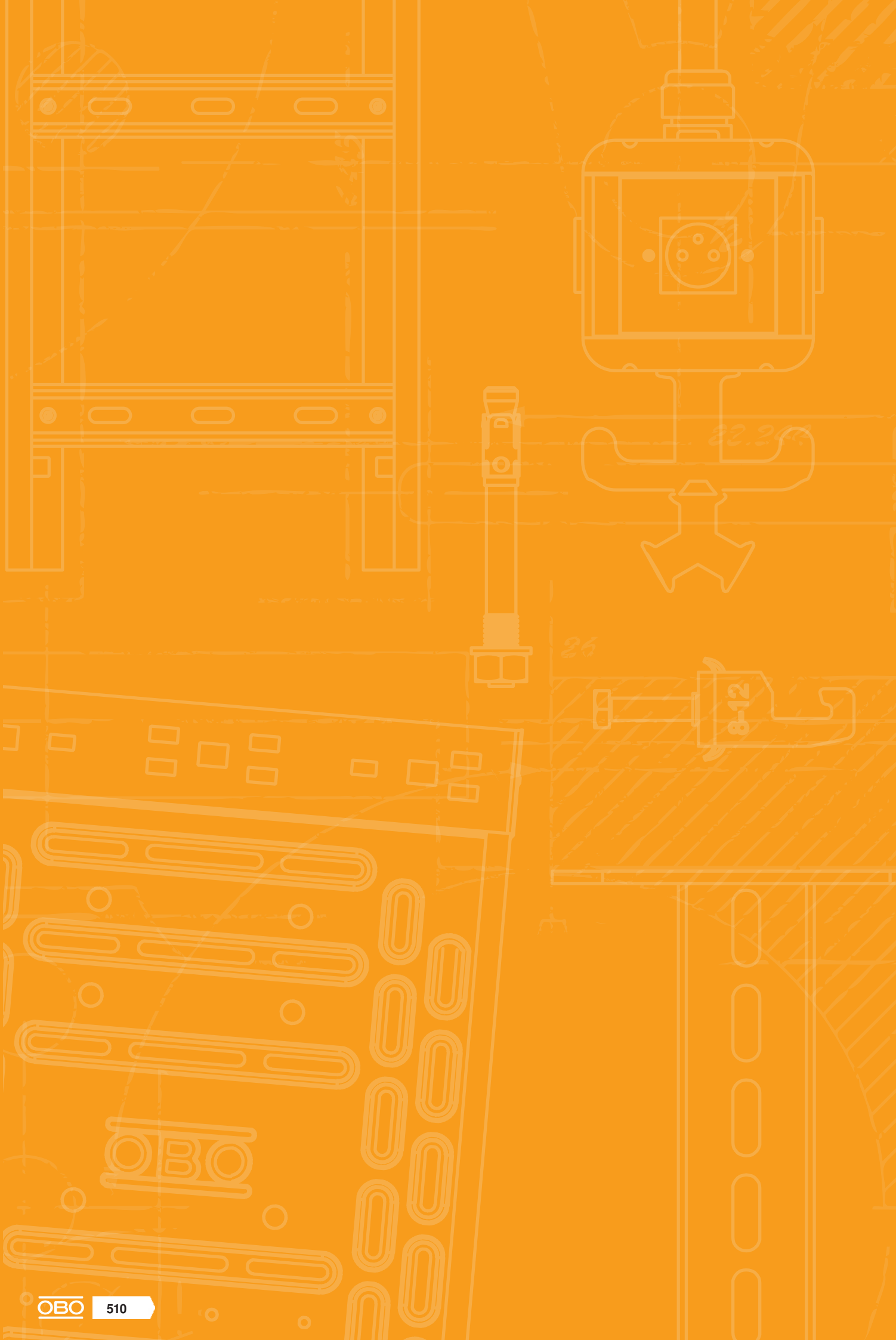
Strain relief, three-sided, with mineral wool, interior height 175 mm

Type	Dim. b mm	Dim. t mm	Dim. H mm	Dim. B mm	Dim. T mm	Pack Piece	Weight kg/100 pc.	Item no.
ZSE90-25-17	250	175	160	340	220	1	484.000	7215713
ZSE90-35-17	350	175	160	440	220	1	600.000	7215716
ZSE90-45-17	450	175	160	540	220	1	700.000	7215719
ZSE90-55-17	550	175	160	640	220	1	770.000	7215726
ZSE90-65-17	650	175	160	740	220	1	822.000	7215730



Strain relief as an effective support measure for vertical cable routing, according to DIN 4102 Part 12, approved for all cable types and all vertical routing systems. Maintenance of electrical function classes E30 to E90. Housing including mineral fibre panels, fastening material, ASX fire protection coating in cartridge and identification plate.





Luminaire support systems



Luminaire support channel

512

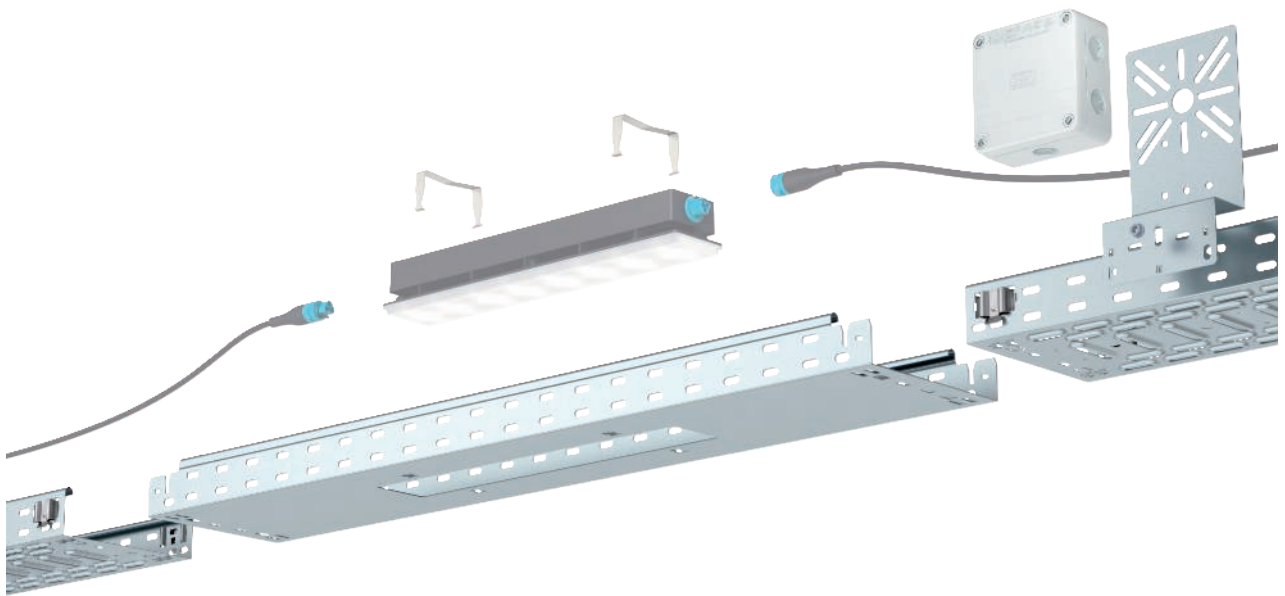


Luminaire support tray

524



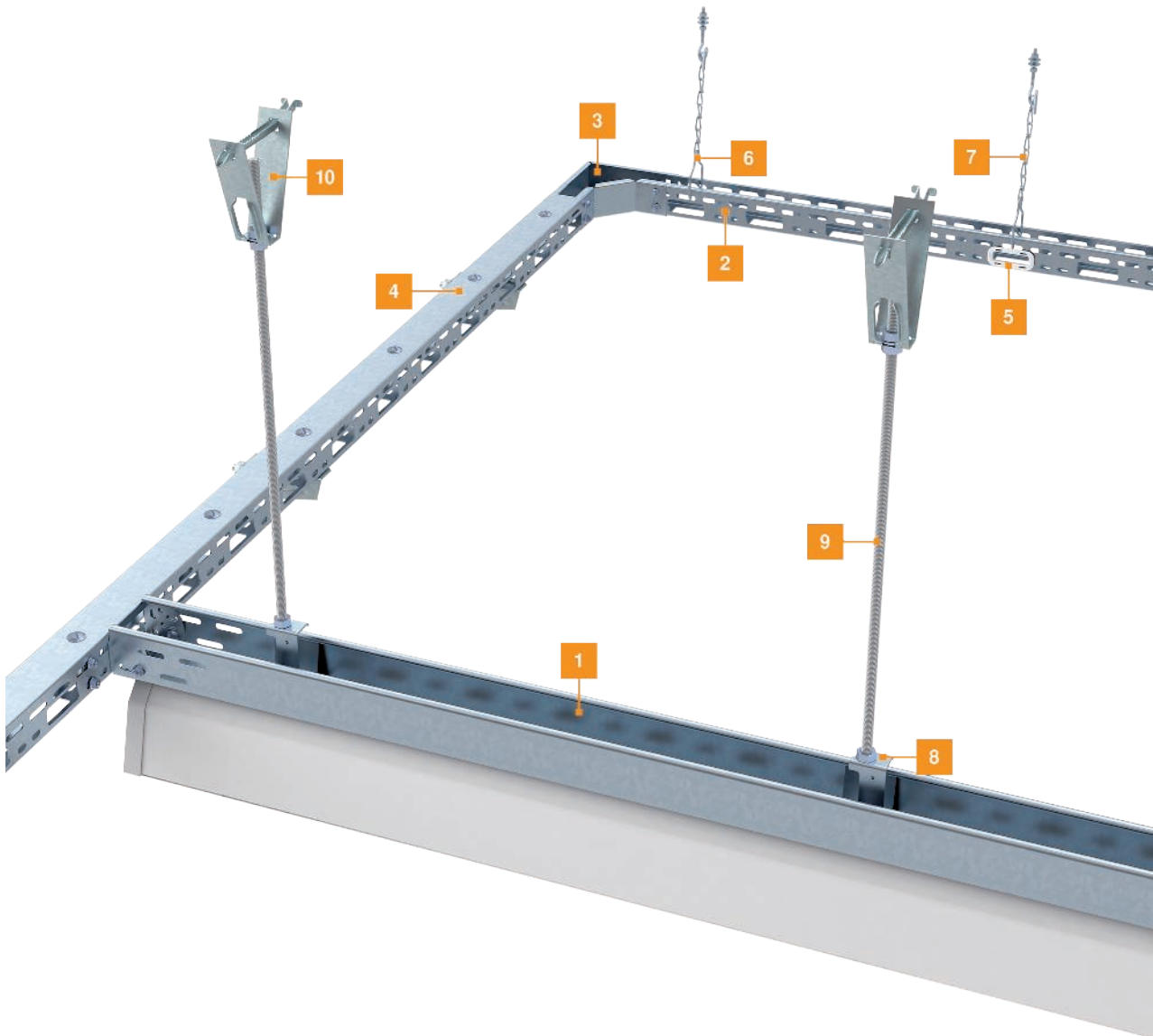
System description



Whether in industry, in purpose-built buildings or in especially attractive buildings, OBO luminaire support systems simplify the installation of light systems in many areas of industry and buildings. They are also suitable for flexible power and data supply to machines and

workstations. The OBO luminaire support system makes cable laying and the optimum positioning of lighting for any possible application simply child's play.

Installation principle



1 Luminaire support tray

2 Luminaire support channel

3 90° bend

4 Cover with turn buckle

5 Edge protection ring

6 Suspension bracket

7 Suspension chain

8 Centre suspension

9 Threaded rod

10 Trapezoidal fastening

Mounting aid



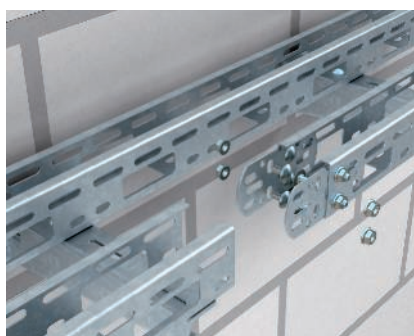
Luminaire support tray application
Suspension of the luminaire support tray with chain and suspension bracket.



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



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



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



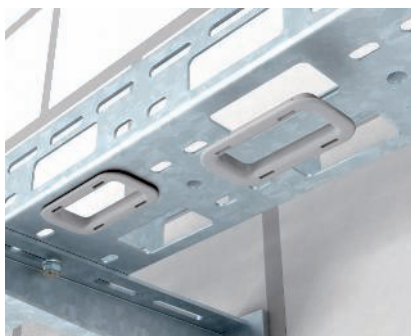
Horizontal angle connection
Horizontal angle connection of the luminaire support channel, type LTS, with straight and angle connectors, type VF AZK.



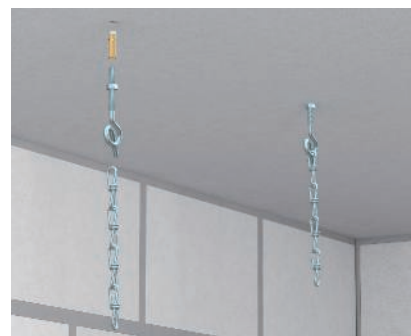
Vertical straight connection
Vertical straight connection of the luminaire support tray, type LTS, with two straight and angle connectors, type VF AZK.



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



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



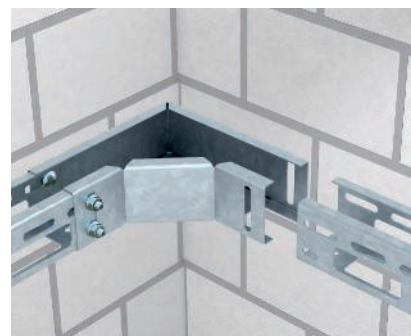
Chain suspension
Implementation of a chain suspension for luminaire support systems with anchors, ceiling hook, type 948/TG6 and suspension chain, type LTK-K.



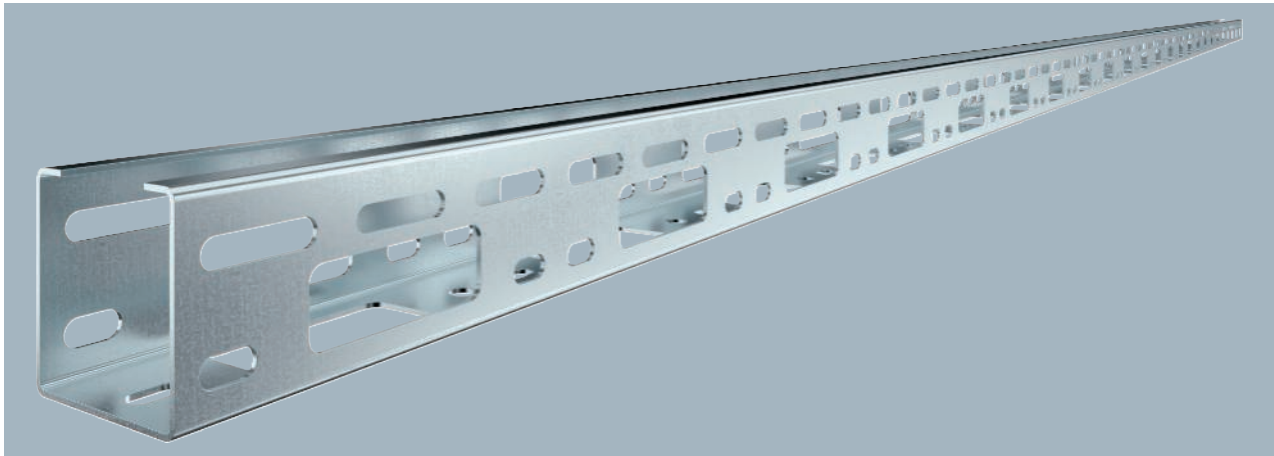
Centre suspension
Efficient creation of centre suspensions. The luminaire support tray is fastened to the centre suspension hanger without bolts.



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



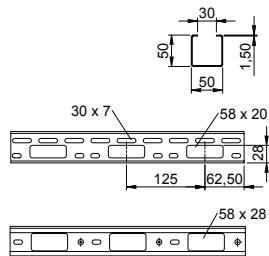
Mounting of luminaire support fitting
Mounting of luminaire support fitting by simple interconnection of fitting and luminaire support tray.



Perforated luminaire support channel for cable routing and luminaire mounting.

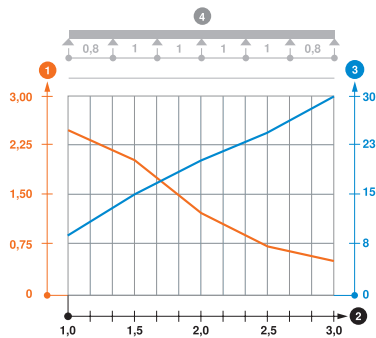
Type	Pack m	Weight kg/100 m	Item no.
LTS 50 FS	6	135.700	6075000

Dimensions



Type	Length mm	Width mm	Usable cross-section cm ²	Metal thickness mm
LTS 50 FS	6000	50	22	1.50

Load



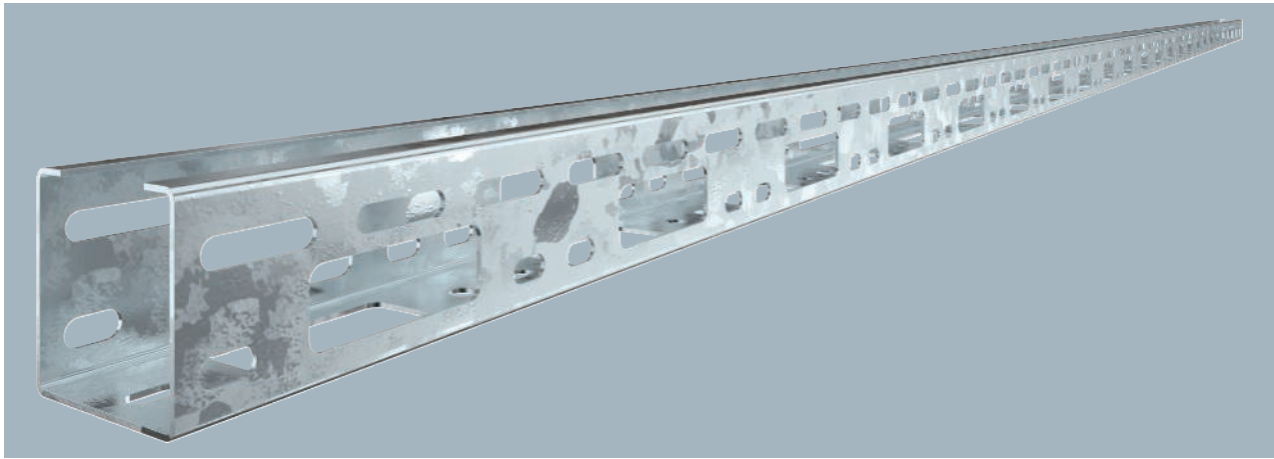
	1.0 m	1.5 m	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
LTS 50 FS	2.5	2	1.2	0.85	0.5

Load diagram, luminaire support channel, 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

Luminaire support channel 50

St FT

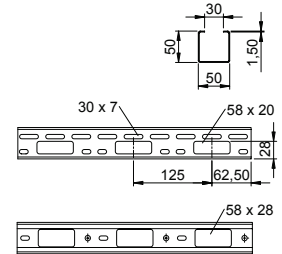


Type	Pack m	Weight kg/100 m	Item no.
LTS 50 FT	6	149.500	6075005

Perforated luminaire support channel for cable routing and luminaire mounting.

Type	Length mm	Width mm	Usable cross-section cm ²	Metal thickness mm
LTS 50 FT	6000	50	22	1.50

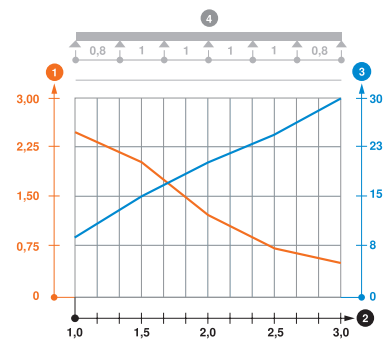
Dimensions



Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
LTS 50 FT	2.5	2	1.2	0.85	0.5

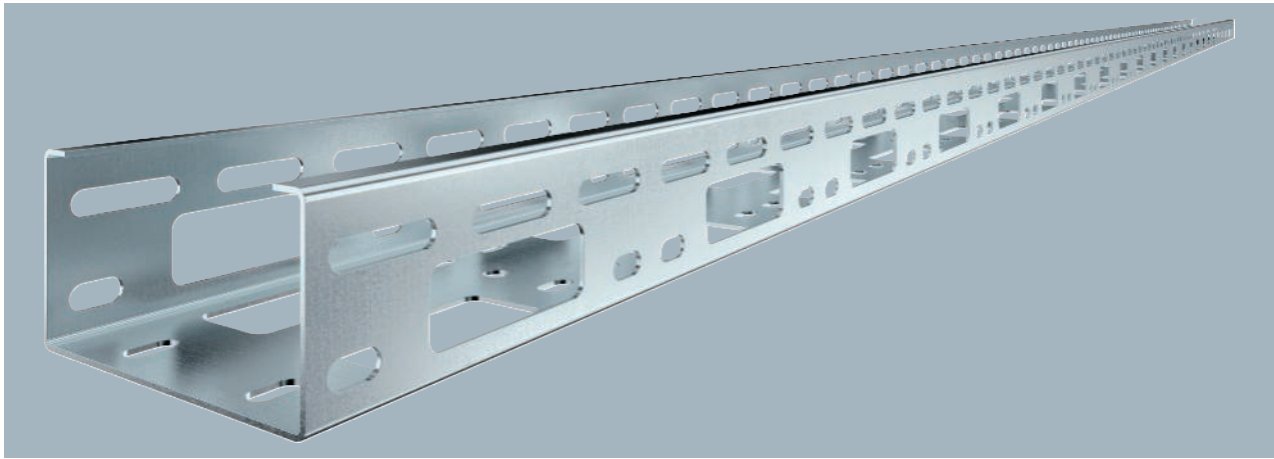
Load

- 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



St FS

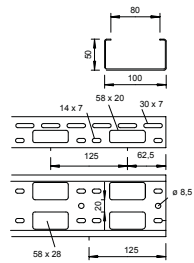
Luminaire support channel 100



Perforated luminaire support channel for cable routing and luminaire mounting.

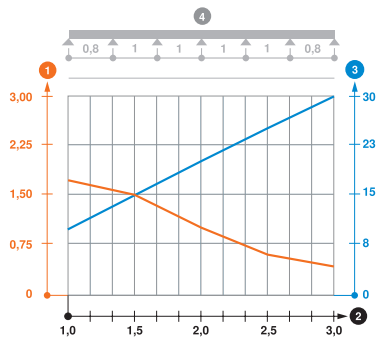
Type	Pack m	Weight kg/100 m	Item no.
LTS 100 FS	6	177.000	6075024

Dimensions



Type	Length mm	Width mm	Usable cross-section cm ²	Metal thickness mm
LTS 100 FS	6000	100	46	1.50

Load



	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 channel, type LTS

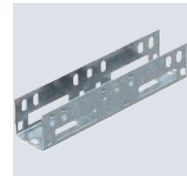
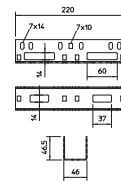
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width

St FS DD

Straight connector 50

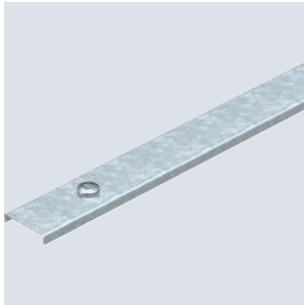
Type	Pack Piece	Weight kg/100 pc.	Item no.
VF AZK 50 FS	25	27.100	6066615
VF AZK 50 DD	25	27.100	6066623

Straight connector for connection of luminaire support channels and AZ channels. An adjustable connector can be created using two straight and angle connectors.



Cover with turn buckle

St FS

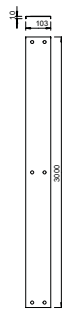
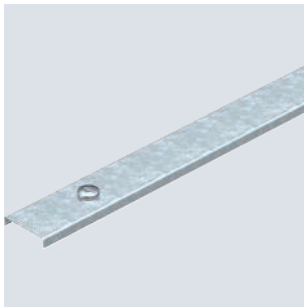


Type	Width mm	Length mm	Pack m	Weight kg/100 m	Item no.
AZDMD 50 FS	53	3000	3	55.000	6080138
AZDMD 100 FS	103	3000	3	97.767	6080227

Cover with turn buckle for AZ small duct.

Cover with turn buckle

St DD

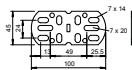


Type	Width mm	Length mm	Pack m	Weight kg/100 m	Item no.
AZDMD 50 DD	53	3000	3	58.340	6080154
AZDMD 100 DD	103	3000	3	101.700	6080235

Cover with turn buckle for AZ small duct.

Straight and angle connector 50

St FT



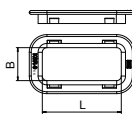
Type	Pack Piece	Weight kg/100 pc.	Item no.
VF AZK FT	25	7.656	6066550

Straight and angle connector for connection of AZ channels.

An adjustable connector can be created using two straight and angle connectors. Scope of delivery including bolts with combination nuts.

DR 910 cable protection ring

PE

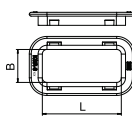


Type	Colour	for perforation mm	Pack Piece	Weight kg/100 pc.	Item no.
KSR-910 PE	Light grey	20 x 58	25	0.470	6066712

Cable protection ring for bottom perforation in cable trays of type IKS and for side perforation in AZ small ducts and luminaire support channel.

915 cable protection ring

PE



Type	Colour	for perforation mm	Pack Piece	Weight kg/100 pc.	Item no.
KSR-915 PE	Light grey	28 x 58	25	0.520	6066704

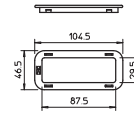
Cable protection ring for bottom perforations in AZ small ducts and luminaire support channels.

PE

DR 920 cable protection ring

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

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

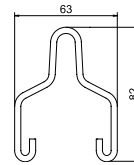


St F

Suspension bracket 50

Type	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AHB 50 D4 FT	0.35	50	1.985	6066505

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.

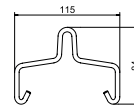


St F

Suspension bracket 100

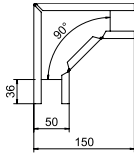
Type	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AHB 100 D5 FT	0.6	50	4.060	6066510

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 LTS B

St DD

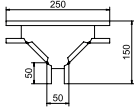


Type	Side height	Width	Pack Piece	Weight kg/100 pc.	Item no.
	mm	mm			
LTS B DD	50	50	1	36.600	6074901

90° bend, horizontal, for AZ small duct AZK 050 and luminaire support channel LTS 50.

LTS T T-piece

St DD

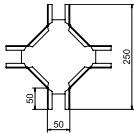


Type	Side height	Width	Pack Piece	Weight kg/100 pc.	Item no.
	mm	mm			
LTS T DD	50	50	1	47.800	6074912

Horizontal tee, for AZ small duct AZK 050 and luminaire support channel LTS 50.

LTS K cross-over

St DD



Type	Side height	Width	Pack Piece	Weight kg/100 pc.	Item no.
	mm	mm			
LTS K DD	50	50	1	58.400	6074921

Cross-over, horizontal, for AZ small duct AZK 050 and luminaire support channel LTS 50.

3-wire connection cable, PVC, cross-section 2.5 mm², black

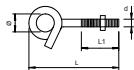


Type	Cable length mm	Cross-section mm ²	Number of poles	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VL-3Q2.5 5 SW	5000	2.5	3	Black	1	90.000	6108154
VL-3Q2.5 10 SW	10000	2.5	3	Black	1	180.000	6108159

Connection cable 3 x 2.5 mm² in the version socket – connector with GST18i connection system.

Ceiling hook

St G



Type	Thread	Dim. d	Dim. L	Dim. L1	Dim. d1	Washer Ø	Break load	Pack Piece	Weight kg/100 pc.	Item no.
		mm	mm	mm	mm	mm	kN			
948 TG6	M6	6	70	46	13	18	1	25	3.300	3453820

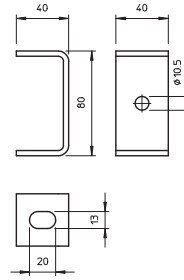
Tightly wound ceiling hook. Including two large washers and nuts.

St FT

Ceiling bracket

Type	Pack Piece	Weight kg/100 pc.	Item no.
DB FT	20	16.000	6356109

Ceiling bracket for threaded rod suspension.

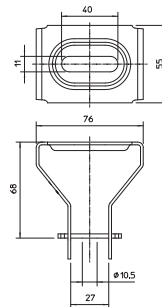


St FS

Ceiling clamp, variable

Type	Pack Piece	Weight kg/100 pc.	Item no.
DBV FS	20	18.200	6356055

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.

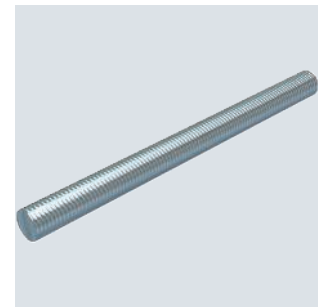
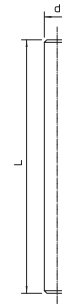


St G

Threaded rod

Type	Thread	Dim. d mm	Dim. L mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TR M8 1M G	M8	8	1000	14.6	10	30.000	3141128
TR M10 1M G	M10	10	1000	23.2	10	49.000	3141209
TR M12 1M G	M12	12	1000	33.7	10	62.000	3141306
TR M8 2M G	M8	8	2000	14.6	10	60.000	3141136
TR M10 2M G	M10	10	2000	23.2	10	98.000	3141140
TR M12 2M G	M12	12	2000	33.7	10	140.000	3141144

Threaded rod to DIN 976.



St G

Connection sleeve

Type	Thread	Dim. L mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
CSTR M8 G	M8	24	13	50	1.880	6410081
CSTR M10 G	M10	30	17	50	4.150	6410103
CSTR M12 G	M12	40	19	25	7.000	6410111

Connection sleeve with continuous internal thread.

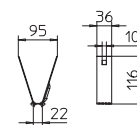


St FS

Ceiling bracket, trapezoidal

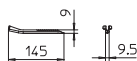
Type	Material thickness mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB 100 FS	1.5	0.8	20	9.900	6357506

Important: Observe the statics of the trapezoidal metal ceiling.
Trapezoidal fastening for suspended mounting of cable support systems on standard trapezoidal ceilings.
When using the holes provided, the trapezoidal fastening can be mounted onto a trapezoidal profile width of up to approx. 80 mm. Fastening takes place with the type TPB R lock or a hexagonal bolt of type SKS 10x110.



Splint for trapezoidal ceiling bracket

St FS

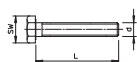


Type	Material	Break	Pack	Weight	Item no.
	thickness	load		Piece	
	mm	kN			
TPB R FS	1.5	0.8	20	3.100	6357536

Important: Observe the statics of the trapezoidal metal ceiling.
Splint for fastening and securing the ceiling bracket to trapezoidal ceilings.

Hexagonal bolt for trapezoidal fastening TPB 100

St G

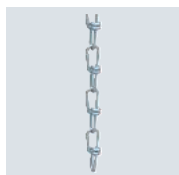


Type	Dimen-	Dim.	Dim.	Resist-	Pack	Weight	Item no.
	sion	L	d	ance		Piece	
	mm	mm	mm	grade			
SKS 10x110 G	M 10x110	110	10	17 5.6	20	9.500	6418244

Hexagonal bolt for mounting trapezoidal fastening TPB 100, with shaft and thread, including hexagonal nut and 2 washers.

Suspension chain

St G



Type	Material	Break	Pack	Weight	Item no.
	thickness	load		m	
	mm	kN			
LTK-K 10 G	2.6	0.9	10	19.000	6050360
LTK-K 25 G	2.6	0.9	25	19.000	6050370

Suspension chain according to DIN 5686 for suspending luminaire support systems.

Quick link

St G

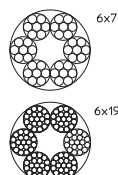


Type	Material	Pack	Weight	Item no.
	thickness		Piece	
	mm			
KNG G	4	100	0.700	6050375

Quick link for connecting the chain, type LTK.

Steel wire tensioning rope

St G



Type	Cable	Break	In	Pack	Weight	Item no.
	dia-	load	rings		m	
	meter	kN	m			
957 3 G	3	5.29	50	50	3.220	5303206

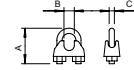
Steel wire tensioning rope, galvanised with fibre inlay (hemp core).
Cable Ø 2–6 mm: round-stranded cable 6 x 7 according to DIN 3055.
Cable Ø 8–10 mm: round-stranded cable 6 x 19 according to DIN 3060.
Minimum break force 1770 N/mm².

St G

Wire cable clamp

Type	For rope-Ø mm	Dim.			Pack Piece	Weight kg/100 pc.	Item no.
		A mm	B mm	C mm			
947 3 G	3	20	4	4	25	1.100	5302021

Wire cable clamp for fastening steel wire tensioning ropes.

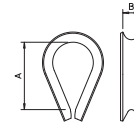


St G

Cable eye stiffener

Type	For rope-Ø mm	Dim.		Pack Piece	Weight kg/100 pc.	Item no.
		A mm	B mm			
946 3 G	3	23.5	3.5	25	0.210	5301033

Cable eye stiffener to DIN 65457.

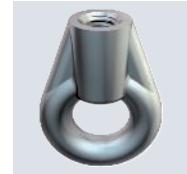
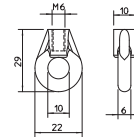


Zn G

Ring eyelet

Type	Thread	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.

Ring eyelet with metric internal thread.

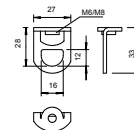


St G

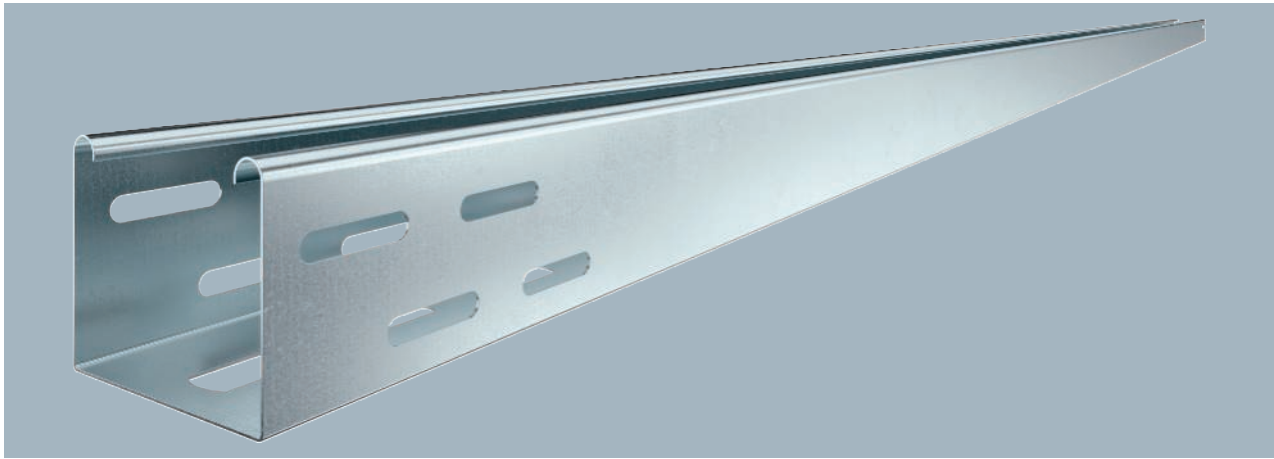
TS suspension eyelet

Type	Thread	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
2990 M8 G	M8	1.7	50	2.320	3462889

Suspension eyelet with interior thread.



Luminaire support tray



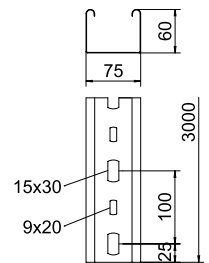
Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
LTR 3000 FS	75	0.75	3	125.700	6055810
LTR 6000 FS	75	0.75	6	126.020	6055812

The white version has a visible surface coating.

Luminaire support tray with perforated base for fastening luminaires and cable penetration.

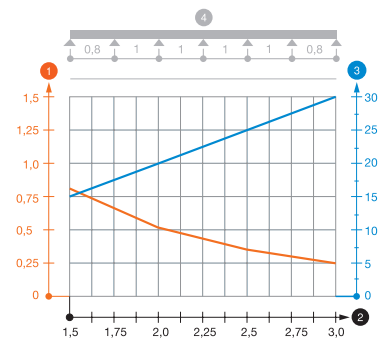
Type	Length mm	Width mm	Usable cross- section cm ²	Metal thick- ness mm
LTR 3000 FS	3000	75	42	0.75
LTR 6000 FS	6000	75	42	0.75

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
LTR 3000 FS	0.8	0.55	0.35	0.25
LTR 6000 FS	0.8	0.55	0.35	0.25

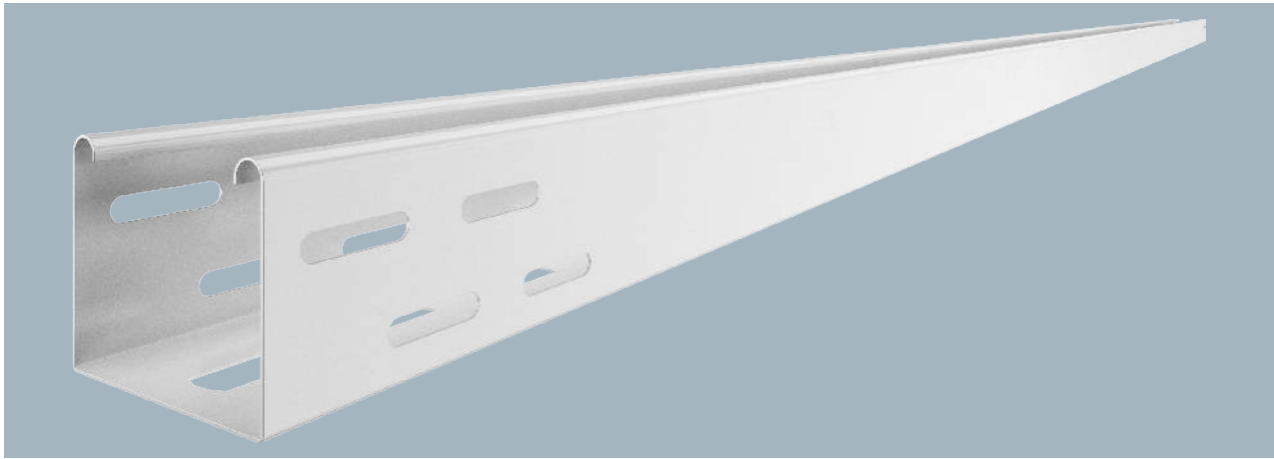
Load



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

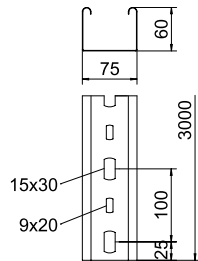
Luminaire support tray, pure white



The luminaire support tray's surface is strip-galvanised and is also powder-coated in white (RAL 9010).
Luminaire support tray with perforated base for fastening luminaires and cable penetration.

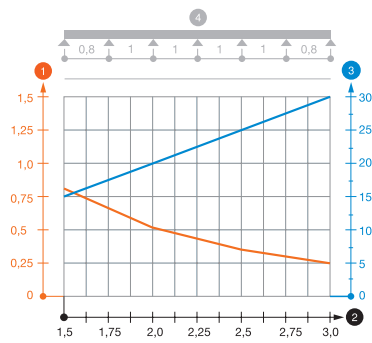
Type	Width mm	Metal thick- ness mm	Colour	Pack m	Weight kg/100 m	Item no.
LTR 3000 FSK RW	75	0.75	Pure white	6	129.540	6055820
LTR 6000 FSK RW	75	0.75	Pure white	6	129.500	6055821

Dimensions



Type	Length mm	Width mm	Usable cross- section cm ²
LTR 3000 FSK RW	3000	75	42
LTR 6000 FSK RW	6000	75	42

Load



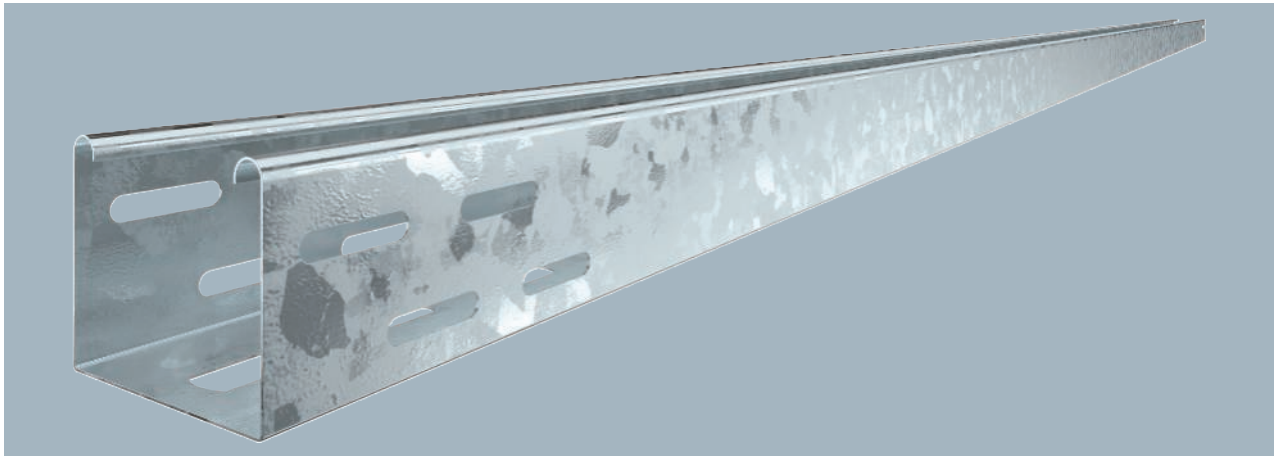
	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
LTR 3000 FSK RW	0.8	0.55	0.35	0.25
LTR 6000 FSK RW	0.8	0.55	0.35	0.25

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

Luminaire support tray

St FT

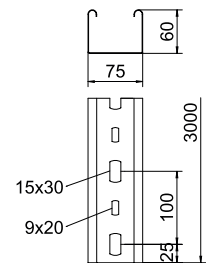


Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
LTR 3000 FT	75	0.75	3	142.370	6055817

The white version is a visible surface coating.
Luminaire support tray with perforated base for fastening luminaires and cable penetration.

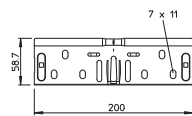
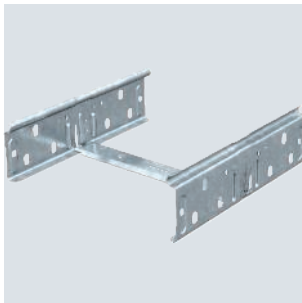
Type	Length mm	Width mm	Usable cross- section cm ²
LTR 3000 FT	3000	75	42

Dimensions



Straight connector set 60

St FS



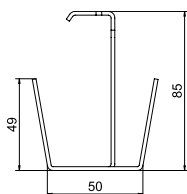
Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
RV 607 FS	60	75	10	18.800	6068150

Quick connector set for straight, screwless connections of cable trays and fittings with a side height of 60 mm.

The continuous earthing connection is guaranteed without a screw connection.

Centre suspension for luminaire support tray

St FS FT



Type	for width mm	For threaded rod	Pack Piece	Weight kg/100 pc.	Item no.
MAH LTR FS	75	M10	25	12.000	6358810
MAH LTR FT	75	M10	25	14.000	6358812

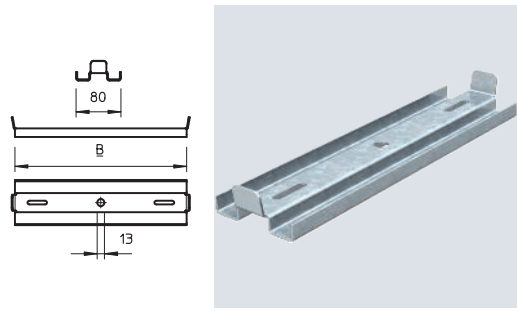
The central hanger can be used with all cable trays of width 75 mm and side height 60 mm.
Central hanger for luminaire support tray, type LTR, for threaded rod and chain suspension.

St FT

Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MAHL 200 FT	200	1	41.900	6358659
MAHL 300 FT	300	1	61.800	6358667
MAHL 400 FT	400	1	81.800	6358675
MAHL 500 FT	500	1	101.700	6358683
MAHL 600 FT	600	1	121.700	6358687

On filling, please ensure an even load distribution (no one-sided filling).
Centre suspension for cable ladders.

Centre suspension, cable ladder

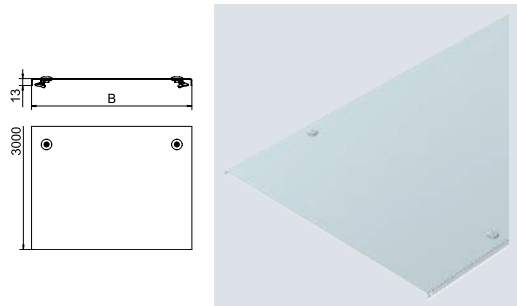


St FS

Type	Dim. B mm	Metal thick- ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL 075 FS	75	1.00	3000	3	83.340	6052029

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



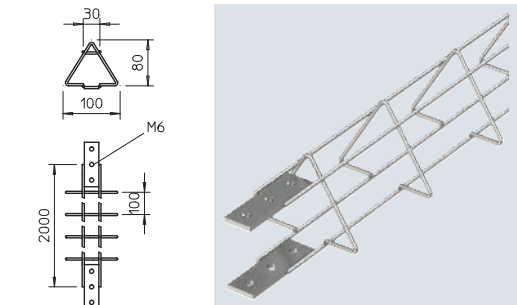
Luminaire support mesh cable trays

A2 2B

Type	Width mm	Length mm	Pack m	Weight kg/100 m	Item no.
LTG 100 A2	100	2080	2	69.500	6003830

Luminaire support grid for luminaire suspension. The constructive design of this system avoids larger build-ups of dirt.

Luminaire support mesh tray



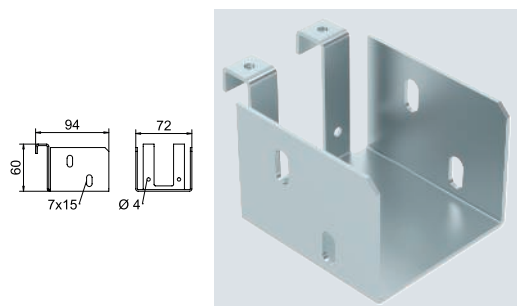
Fittings

St FS

Type	Dimen- sion mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 607.5 LTR FS	60x75	10	24.200	6050354

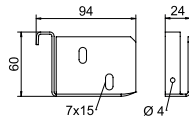
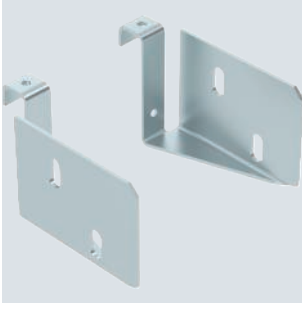
Single-part version.
Add-on tee for horizontal use on luminaire trays of 60 mm side height.

Mounting/branch piece



Mounting/branch piece

St FS

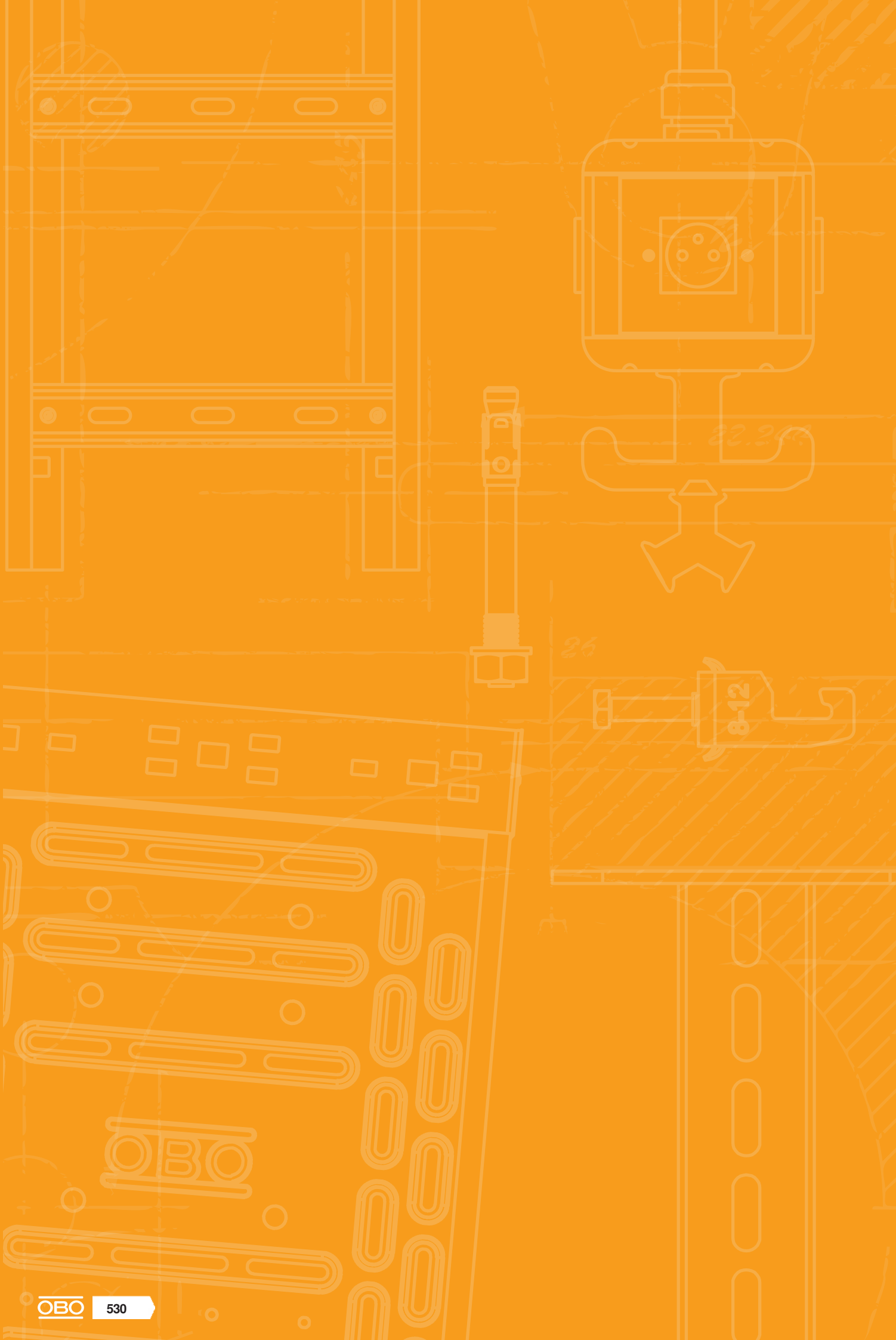


Type	Dimension mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 607.5 FS	60x75	10	18.100	6050353

Two-part version.

Add-on tee for horizontal use on luminaire trays of 60 mm side height.





Modular systems

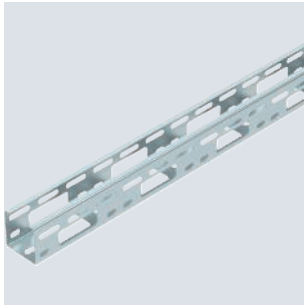


Modular systems

530



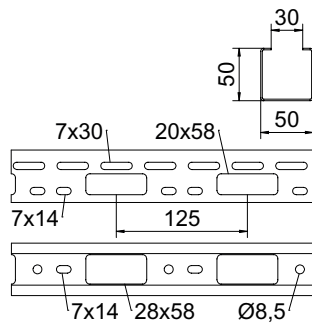
AZ small duct 50



Type	Pack	Weight	Item no.
	m	kg/100 m	
AZK 050 FS	3	135.700	6075096
AZK 050 FT	3	144.700	6075142

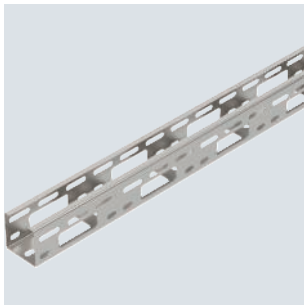
AZ channel with a side height of 50 mm.

Dimensions



Type	Length mm	Width mm	Side height mm	Metal
				thick- ness mm
AZK 050 FS	3000	50	50	1.50

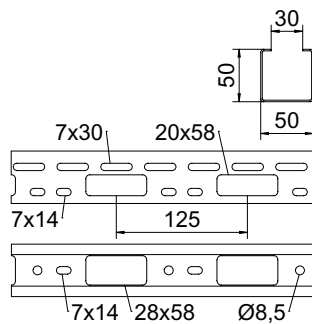
AZ small duct 50



Type	Pack	Weight	Item no.
	m	kg/100 m	
AZK 050 A2	3	135.700	6075150
AZK 050 A4	3	135.700	6075152

AZ channel with a side height of 50 mm.

Dimensions



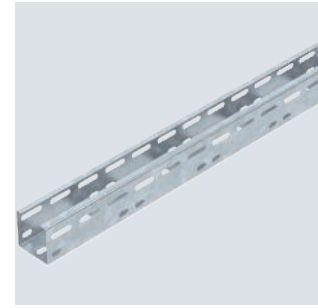
Type	Length mm	Width mm	Side height mm	Metal
				thick- ness mm
AZK 050 A2	3000	50	50	1.50

St FT

AZ small duct 50

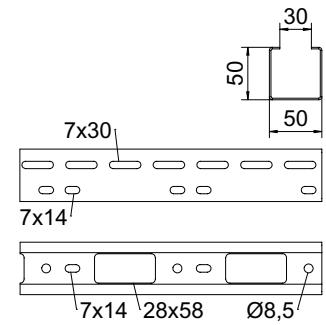
Type	Pack m	Weight kg/100 m	Item no.
AZK A 050 FT	3	165.670	6076149

AZ channel with a side height of 50 mm.



Type	Length mm	Width mm	Side height mm	Metal thickness mm
AZK A 050 FT	3000	50	50	1.50

Dimensions

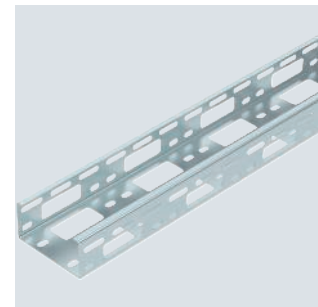


St FS FT

AZ channel 100

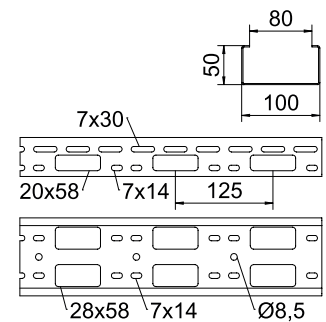
Type	Pack m	Weight kg/100 m	Item no.
AZK 100 FS	3	176.940	6075231
AZK 100 FT	3	188.670	6075258

AZ channel with a side height of 50 mm.



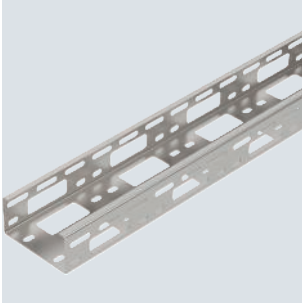
Type	Length mm	Width mm	Side height mm	Metal thickness mm
AZK 100 FS	3000	100	50	1.50

Dimensions



AZ channel 100

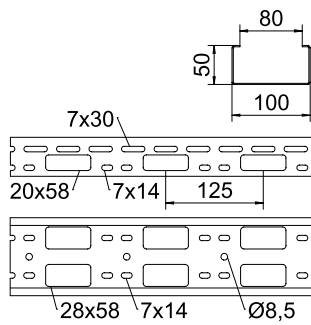
A2 2B



Type	Pack m	Weight kg/100 m	Item no.
AZK 100 A2	3	176.934	6075304

AZ channel with a side height of 50 mm.

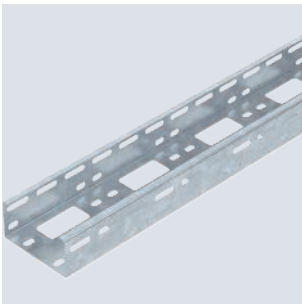
Dimensions



Type	Length mm	Width mm	Side height mm	Metal thickness mm
AZK 100 A2	3000	100	50	1.50

AZ channel 100

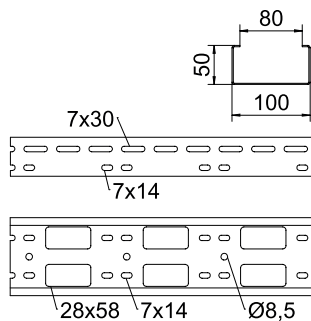
St FT



Type	Pack m	Weight kg/100 m	Item no.
AZK A 100 FT	3	212.000	6076246

AZ channel with a side height of 50 mm.

Dimensions



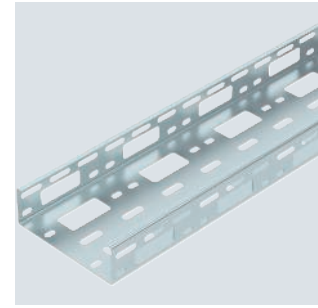
Type	Length mm	Width mm	Side height mm	Metal thickness mm
AZK A 100 FT	3000	100	50	1.50

St FS FT

AZ small duct 150

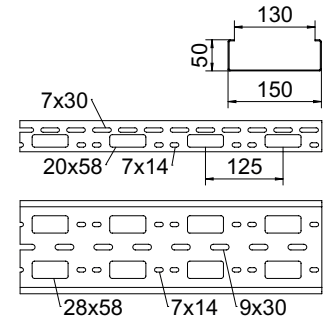
Type	Pack m	Weight kg/100 m	Item no.
AZK 150 FS	3	231.670	6075320
AZK 150 FT	3	245.670	6075325

AZ channel with a side height of 50 mm.



Type	Length mm	Width mm	Side height mm	Metal thickness mm
AZK 150 FS	3000	150	50	1.50

Dimensions

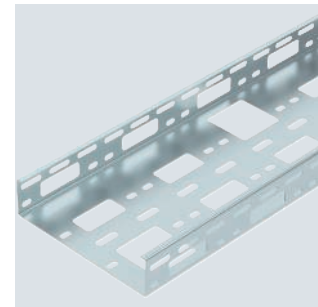


St FS FT

AZ small duct 200

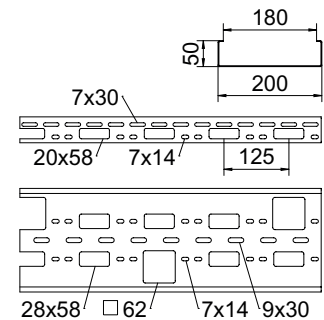
Type	Pack m	Weight kg/100 m	Item no.
AZK 200 FS	3	280.340	6075345
AZK 200 FT	3	296.000	6075350

AZ channel with a side height of 50 mm.



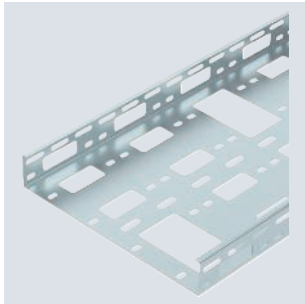
Type	Length mm	Width mm	Side height mm	Metal thickness mm
AZK 200 FS	3000	200	50	1.50

Dimensions



AZ small duct 300

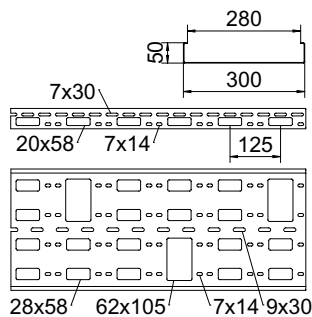
St FS FT



Type	Pack m	Weight kg/100 m	Item no.
AZK 300 FS	3	359.340	6075370
AZK 300 FT	3	381.000	6075375

AZ channel with a side height of 50 mm.

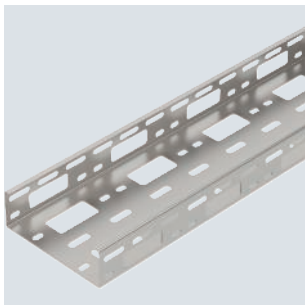
Dimensions



Type	Length mm	Width mm	Side height mm	Metal thickness mm
AZK 300 FS	3000	300	50	1.50

AZ small duct 150

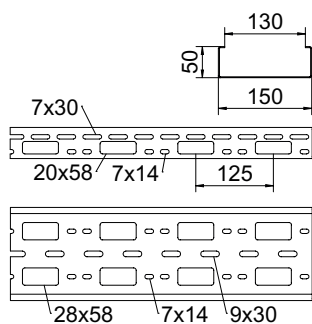
A2 2B



Type	Pack m	Weight kg/100 m	Item no.
AZK 150 A2	3	231.660	6075330

AZ channel with a side height of 50 mm.

Dimensions



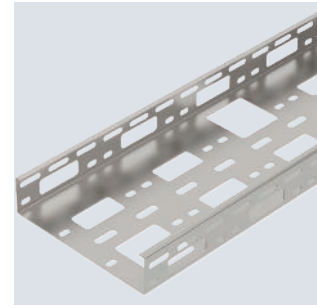
Type	Length mm	Width mm	Side height mm	Metal thickness mm
AZK 150 A2	3000	150	50	1.50

A2 2B

Type	Pack m	Weight kg/100 m	Item no.
AZK 200 A2	3	280.340	6075355

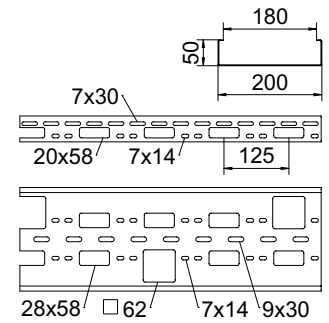
AZ channel with a side height of 50 mm.

AZ small duct 200



Type	Length mm	Width mm	Side height mm	Metal thick- ness mm
AZK 200 A2	3000	200	50	1.50

Dimensions



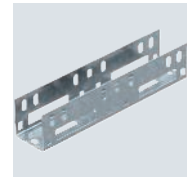
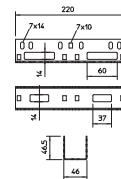
System accessories

St FS DD

Type	Pack Piece	Weight kg/100 pc.	Item no.
VF AZK 50 FS	25	27.100	6066615
VF AZK 50 DD	25	27.100	6066623

An adjustable connector can be created using two straight and angle connectors.
Straight connector for connection of luminaire support channels and AZ channels.

Straight connector 50

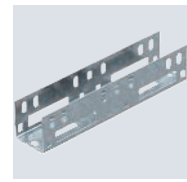
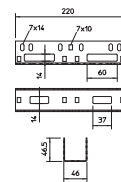


A2 2B

Type	Pack Piece	Weight kg/100 pc.	Item no.
VF AZK 50 A2	25	27.400	6066629

An adjustable connector can be created using two straight and angle connectors.
Straight connector for connection of luminaire support channels and AZ channels.

Straight connector 50

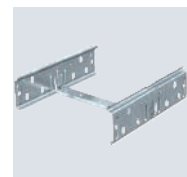
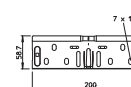


St DD

Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
RV 607 DD	60	75	1	18.800	6068152

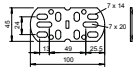
Quick connector set for straight, screwless connections of cable trays and fittings with a side height of 60 mm.
The continuous earthing connection is guaranteed without a screw connection.

Straight connector set



Straight and angle connector 50

St FT



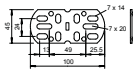
Type	Pack Piece	Weight kg/100 pc.	Item no.
VF AZK FT	25	7.656	6066550

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.

Straight and angle connector 50

A2 A4 2B



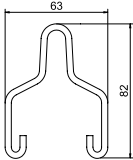
Type	Pack Piece	Weight kg/100 pc.	Item no.
VF AZK A2	10	7.746	6066569
VF AZK A4	10	7.746	6066571

An adjustable connector can be created using two straight and angle connectors. Scope of delivery includes bolts and nuts.

Straight and angle connector for connection of AZ channels.

Suspension bracket 50

St F

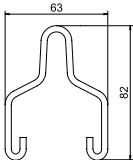


Type	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AHB 50 D4 FT	0.35	50	1.985	6066505

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 50

VA 2B

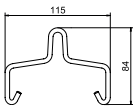


Type	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AHB 50 D4 A4	0.35	50	1.985	6066508

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 100

St F



Type	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AHB 100 D5 FT	0.6	50	4.060	6066510

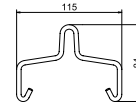
Suspension bracket for chain or steel wire tensioning rope fastening of the luminaire support rail, type LTS 100, and the AZ small duct, type AZK 100.

VA 2B

Suspension bracket 100

Type	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AHB 100 D5 A4	0.6	50	4.060	6066514

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.

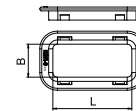


PE

915 cable protection ring

Type	Colour	for perforation mm	Pack Piece	Weight kg/100 pc.	Item no.
KSR-915 PE	Light grey	28 x 58	25	0.520	6066704

Cable protection ring for bottom perforations in AZ small ducts and luminaire support channels.

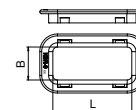


PE

DR 910 cable protection ring

Type	Colour	for perforation mm	Pack Piece	Weight kg/100 pc.	Item no.
KSR-910 PE	Light grey	20 x 58	25	0.470	6066712

Cable protection ring for bottom perforation in cable trays of type IKS and for side perforation in AZ small ducts and luminaire support channel.

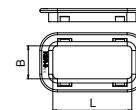


PE

Cable protection ring 920

Type	Colour	for perforation mm	Pack Piece	Weight kg/100 pc.	Item no.
KSR-920 PE	Light grey	62 x 62	25	0.669	6066696

Cable protection ring for bottom perforations in AZ small ducts and luminaire support channels.

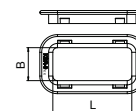


PE

Cable protection ring 925

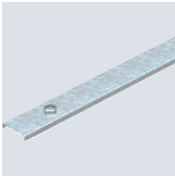
Type	Colour	for perforation mm	Pack Piece	Weight kg/100 pc.	Item no.
KSR-925 PE	Light grey	105 x 62	25	1.040	6066688

Cable protection ring for bottom perforations in AZ small ducts and luminaire support channels.



Cover with turn buckle

St FS

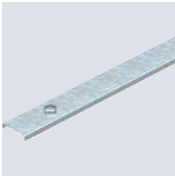


Type	Width mm	Length mm	Pack m	Weight kg/100 m	Item no.
AZDMD 50 FS	53	3000	3	55.000	6080138
AZDMD 100 FS	103	3000	3	97.767	6080227
AZDMD 150 FS	153	3000	3	137.040	6080860
AZDMD 200 FS	203	3000	3	172.330	6080885
AZDMD 300 FS	303	3000	3	254.770	6080910

Cover with turn buckle for AZ small duct.

Cover with turn buckle

St FT DD



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	153.070	6080865
AZDMD 200 FT	203	3000	3	197.000	6080890
AZDMD 300 FT	303	3000	3	284.867	6080915

Cover with turn buckle for AZ small duct.

Cover with turn buckle

A2 2B

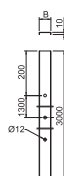


Type	Width mm	Length mm	Pack m	Weight kg/100 m	Item no.
AZDMD 50 A2	53	3000	3	57.200	6080197
AZDMD 100 A2	103	3000	3	99.933	6080294
AZDMD 150 A2	153	3000	3	139.200	6080870
AZDMD 200 A2	203	3000	3	178.470	6080895

Cover with turn buckle for AZ small duct.

Cover for centre suspension threaded rod

St FS

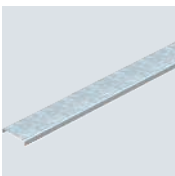


Type	Width mm	Dim. B mm	Dim. H mm	Length mm	Pack m	Weight kg/100 m	Item no.
AZDG 50 FS	53	53	10	3000	3	55.000	6080960
AZDG 100 FS	103	103	10	3000	3	93.230	6080979

Perforated cover, for threaded rod mounting, for AZ small duct.
To fasten the cover, the cover clamp DKU is required.

Cover

St DD



Type	Width mm	Length mm	Pack m	Weight kg/100 m	Item no.
AZDU 50 DD	53	3000	3	54.200	6080158
AZDU 100 DD	103	3000	3	93.433	6080239

Cover without turn buckles for AZ small duct.

St FT

Type	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
AZDR 50 FT	50	20	1.700	6065112

Turn buckle for installation in the cover for AZ channel and BKK system at a later date.



Turn buckle 50

A2 2B

Type	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
AZDR 50 A2	50	10	2.800	6065309

Turn buckle for installation in the cover for AZ small duct of width 50 mm at a later date.



Turn buckle 50

St FT

Type	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
AZDR 100 FT	100	20	1.100	6065104

Turn buckle for installation in the cover for AZ small ducts and BKK system at a later date.

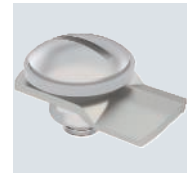


Turn buckle 100

A2 2B

Type	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
AZDR 100 A2	100	10	2.600	6065317

Turn buckle for installation in the cover for AZ small duct and BKK system at a later date.



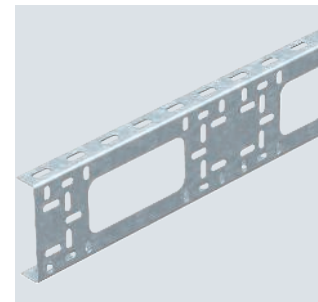
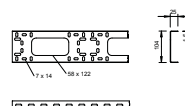
Turn buckle 100

BKK system

St FT

Type	Metal thickness mm	Dimension mm	Length mm	Pack m	Weight kg/100 m	Item no.
BKK 104 FT	1.50	104x25	3000	3	126.666	6070248

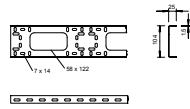
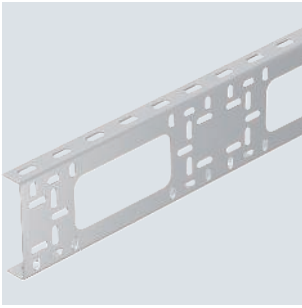
BKK basic profile, perforated, for creation of individual cable trays.



BKK basic profile 104, standard

BKK basic profile 104, standard

A2 2B

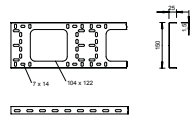
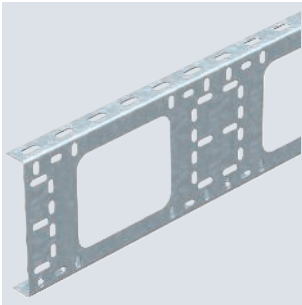


Type	Metal thickness mm	Dimension mm	Length mm	Pack m	Weight kg/100 m	Item no.
BKK 104 A2	1.50	104x25	3000	3	126.667	6070779

BKK basic profile for creation of individual cable trays.

BKK basic profile 150, standard

St FT

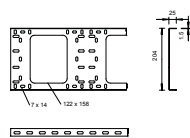
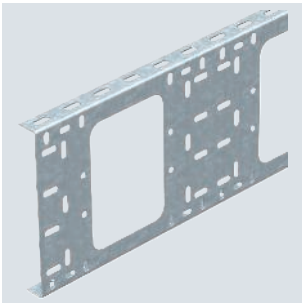


Type	Metal thickness mm	Dimension mm	Length mm	Pack m	Weight kg/100 m	Item no.
BKK 150 FT	1.50	150x25	3000	3	160.000	6070345

BKK basic profile, perforated, for creation of individual cable trays.

BKK basic profile 200, standard

St FT

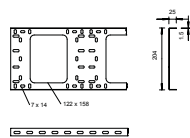
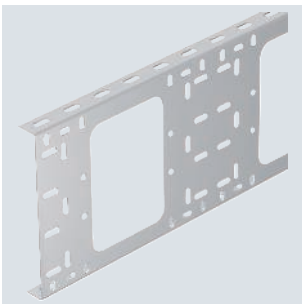


Type	Metal thickness mm	Dimension mm	Length mm	Pack m	Weight kg/100 m	Item no.
BKK 200 FT	1.50	200x25	3000	3	212.000	6070442

BKK basic profile, perforated, for creation of individual cable trays.

BKK basic profile 200, standard

A2 2B



Type	Metal thickness mm	Dimension mm	Length mm	Pack m	Weight kg/100 m	Item no.
BKK 200 A2	1.50	200x25	3000	3	210.000	6070795

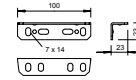
BKK basic profile for creation of individual cable trays.

Modular systems

St FT

SSV joint connector

Type	Metal thickness mm	Dimension mm	Pack Piece	Weight kg/100 pc.	Item no.
SSV FT	2.00	23x23x100	25	8.700	6066046

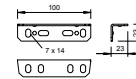


Including appropriate fastening material.
Joint connector for horizontal connection of BKK basic profiles.

A2 2B

SSV joint connector

Type	Metal thickness mm	Dimension mm	Pack Piece	Weight kg/100 pc.	Item no.
SSV A2	2.00	23x23x100	25	9.800	6066054

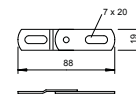


Joint connector for horizontal connection of BKK basic profiles.

St DD

SV hinge connector

Type	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
SV DD	2.00	50	3.300	6066941

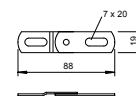


Including appropriate fastening material.
Adjustable connector for vertical bend connections of BKK systems.

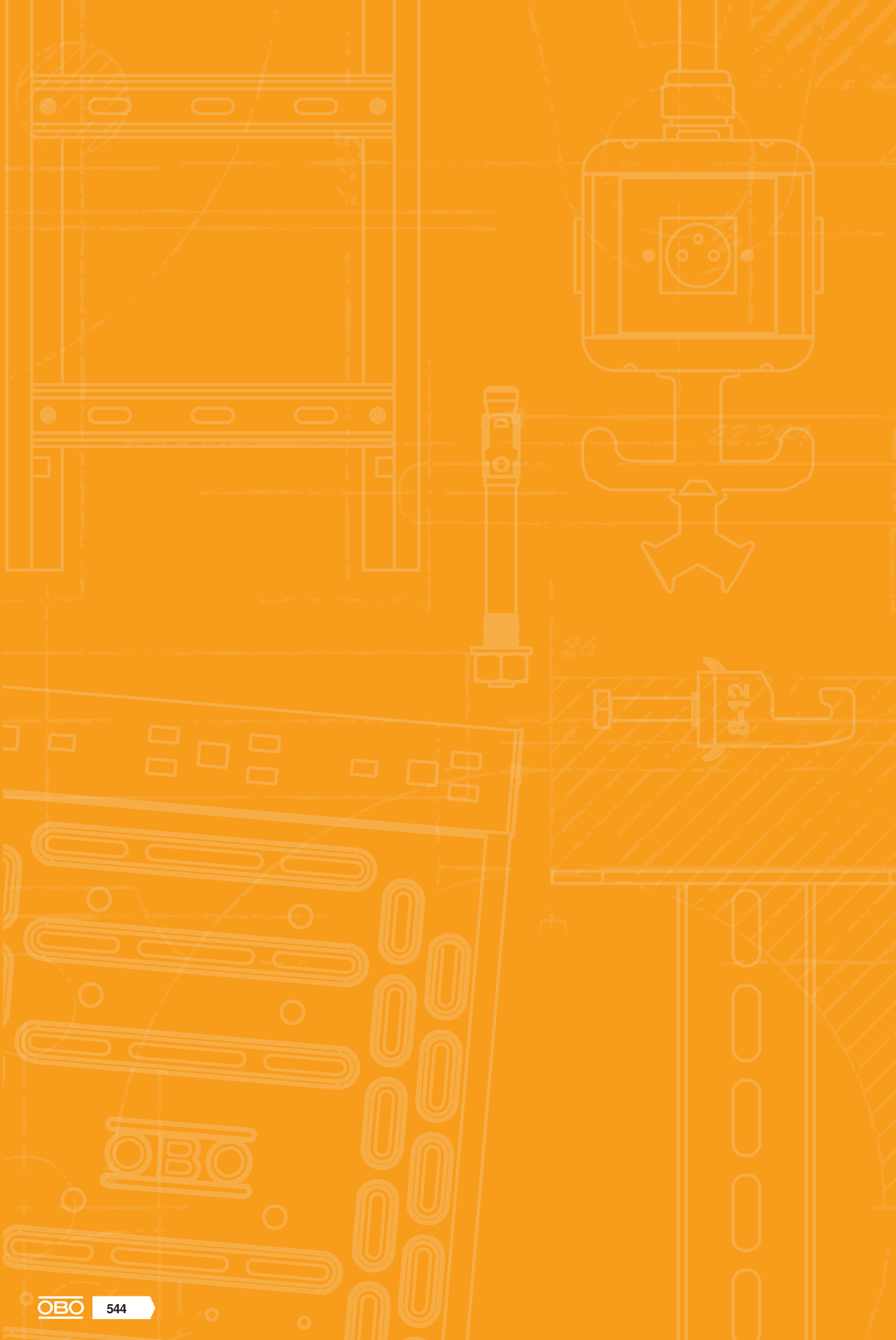
A2 2B

SV hinge connector





Type	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
SV A2	2.00	50	4.800	6066933



Hinge connector for vertical connections of BKK systems.



Mounting systems




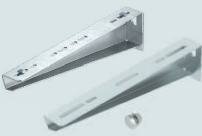



	Brackets	546
	Supports	580
	Alternative suspension systems	624
	Cable support troughs	746



Selection aid

Support and bracket combinations

Bracket arrangement, one-sided

				US 3 K		US 5 K		US 7 K		
										
		Bracket	Support length	200 – 600	700 – 1200	200 – 600	700 – 1200	200 – 600	700 – 1200	
MWA12 ...		100		–	DSK25	–	DSK45	–	–	
		200		–	DSK25	–	DSK45	–	–	
		300		–	DSK25	–	DSK45	–	–	
		400		DSK25	DSK25	DSK45	DSK45	DSK61	DSK61	
AW 15 ...		100		–	DSK25	–	DSK45	–	–	
		200		–	DSK25	–	DSK45	–	–	
		300		–	DSK25	–	DSK45	–	–	
		400		DSK25	DSK25	DSK45	DSK45	DSK61	DSK61	
		500				DSK45*	DSK45*	DSK61	DSK61	
		600				DSK45*	DSK45*	DSK61	DSK61	
AW 30 ...		100				DSK45	DSK45	–	–	
		200				DSK45	DSK45	–	–	
		300					DSK45*	DSK45*	–	–
		400					DSK45*	DSK45*	DSK61	DSK61
		500							DSK61	DSK61
		600							DSK61	DSK61
		700							DSK61	DSK61
AW 55 ...		200				DSK45**	DSK45**	DSK61	DSK61	
		300				DSK45**	DSK45**	DSK61	DSK61	
		400					DSK45**	DSK45**	DSK61*	DSK61*
		500							DSK61*	DSK61*
		600							DSK61*	DSK61*
		700							DSK61*	DSK61*

- No DSK required

* Observe the overall load, adapt the support distances, refer to the load tables in the catalogue

** Only use with maintenance of electrical function

A spacer must always be used for support lengths > 600 mm and bracket arrangements at the bottom end of the support.

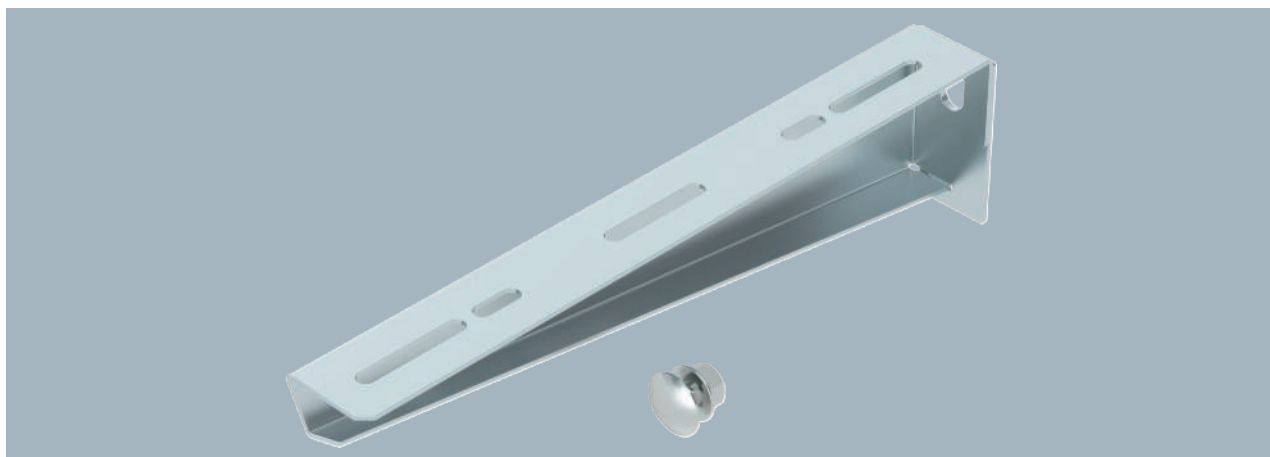


With DSK (spacer)



Without DSK (spacer)

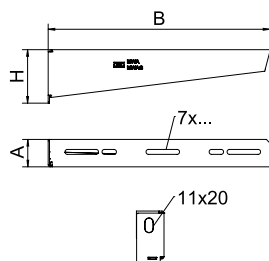
Wall and support bracket MWA 12



Including truss-head bolt M10 x 25 for fastening to U supports.
Light-duty wall and support bracket.

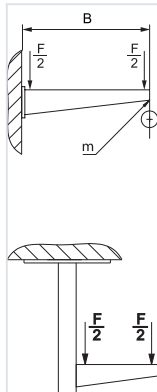
Type	Width mm	F in kN	BS	Pack Piece	Weight kg/100 pc.	Item no.
MWA 12 11S FS	110	1.2		1	16.400	6424716
MWA 12 21S FS	210	1.2		1	26.700	6424732
MWA 12 31S FS	310	1.2		1	50.300	6424740
MWA 12 41S FS	410	1.2		1	68.000	6424759

Dimensions



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

Load



Load characteristics wall and support bracket MWA 12

Item on test	Force F (SWL)	Width B
MWA 12 11S FS	1.2 kN	110 mm
MWA 12 21S FS	1.2 kN	210 mm
MWA 12 31S FS	1.2 kN	310 mm
MWA 12 41S FS	1.2 kN	410 mm

Deformation measurement point m
According to IEC 61537, chapter 10.8.1

Max. total load F = Cable weight + cable tray + bracket

Load values for MWA 12 on suspended support - ceiling fastening

Max. total load F in kN	Bracket length in mm			
	100	200	300	400
Support				
US 3 K/ 20-60	1.2	1.2	1.2	1.2
US 3 K/ 70-120	1.2	1.2	1.2	1.2
US 5 K/ 20-60	1.2	1.2	1.2	1.2
US 5 K/ 70 120	1.2	1.2	1.2	1.2

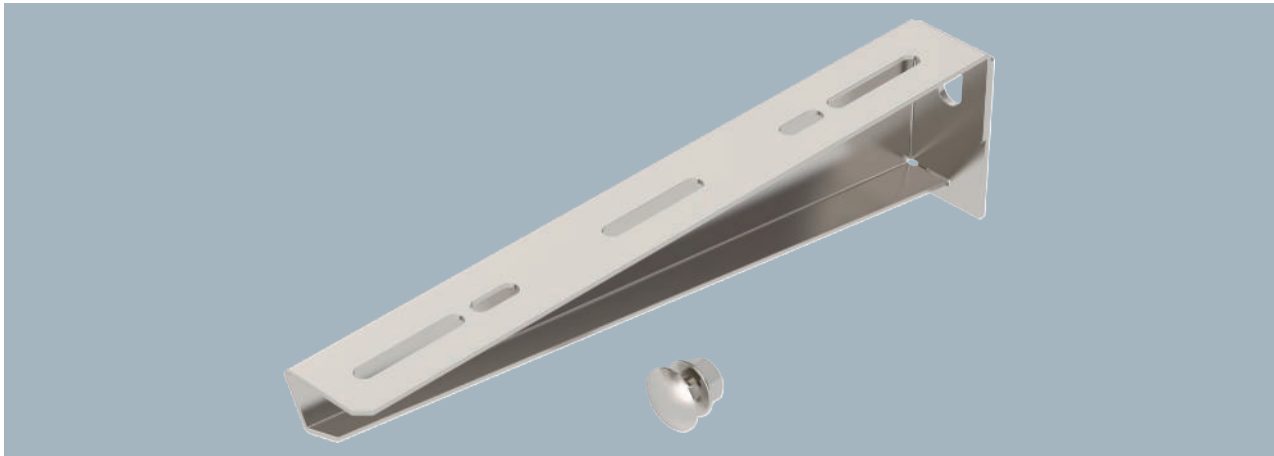
Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Characteristic anchor load values for wall and support bracket MWA 12 - wall fastening

Load [kN]	Bracket width [mm]			
	110%	210	310	410
Anchor type				
BZ3 10x90/0-30	1.2	1.2	1.2	1.2

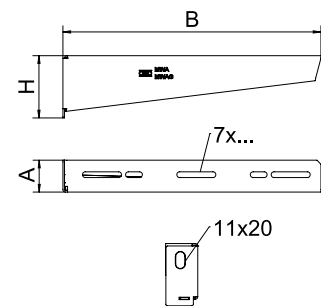
The load capacity values increase considerably when used in uncracked concrete. The stated values are based on cracked concrete of compressive strength C20/25. Please comply with the installation conditions of ETA(anchors).

Wall and support bracket MWA 12



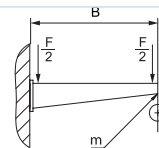
Type	Width mm	F in kN kN		Pack Piece	Weight kg/100 pc.	Item no.
MWA 12 11S A2	110	1.2		1	16.000	6424430
MWA 12 21S A2	210	1.2	🔥	1	26.900	6424432
MWA 12 31S A2	310	1.2	🔥	1	51.800	6424434
MWA 12 41S A2	410	1.2	🔥	1	69.200	6424436
MWA 12 11S A4	110	1.2		1	16.000	6424440
MWA 12 21S A4	210	1.2	🔥	1	26.900	6424442
MWA 12 31S A4	310	1.2	🔥	1	51.800	6424444
MWA 12 41S A4	410	1.2	🔥	1	69.200	6424446

Including truss-head bolt M10 x 25 for fastening to U supports.
Light-duty wall and support bracket.



Load characteristics wall and support bracket MWA 12

Item on test	Force F (SWL)	Width B
MWA 12 11S FS	1.2 kN	110 mm
MWA 12 21S FS	1.2 kN	210 mm
MWA 12 31S FS	1.2 kN	310 mm
MWA 12 41S FS	1.2 kN	410 mm



Load

Deformation measurement point m

According to IEC 61537, chapter 10.8.1

Max. total load F = cable weight + cable tray + bracket

Load values for MWA 12 on suspended support - Ceiling fastening

Max. total load F in kN				
Bracket length in mm	100	200	300	400
Support				
US 3 K/ 20 - 60	1.2	1.2	1.2	1.2
US 3 K/ 70 - 120	1.2	1.2	1.2	1.2
US 5 K/ 20 - 60	1.2	1.2	1.2	1.2
US 5 K/ 70 - 120	1.2	1.2	1.2	1.2

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).

Characteristic anchor load values for wall and support bracket MWA 12 - Wall fastening

Load [kN]				
Bracket width [mm]	110%	210	310	410
Anchor type				
BZ3 10x90/0-30	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

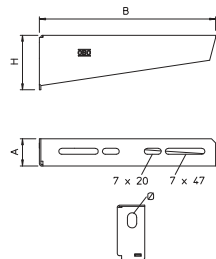
Wall and support bracket MWA 12



Light-duty wall and support bracket.
Including truss-head bolt M10 x 25 for fastening to U supports.

Type	Width mm	F in kN	Colour	Pack Piece	Weight kg/100 pc.	Item no.
MWA 12 21SFSK RW	210	1.2	Pure white	30	27.400	6424620

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
MWA 12 21SFSK RW	210	32.5	65	11

Load

Characteristic load values for MWAG 12 wall and support bracket

Item on test	Force F (SWL)	Width B
MWAG 12 11 FS	1.2 kN	110 mm
MWAG 12 21 FS	1.2 kN	110 mm
MWAG 12 31 FS	1.2 kN	310 mm
MWAG 12 41 FS	1.2 kN	410 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for MWAG 12 wall and support bracket – wall fastening

Load [kN]	Bracket width [mm]			
	110	210	310	410
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	0.65
BZ-U 10-10-30/90		1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Wall and support bracket MWAM 12

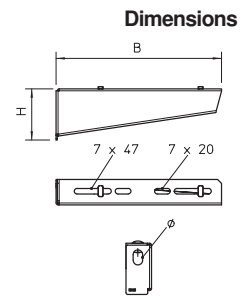
St FS



Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
MWAM 12 11 FS	110	1.2	1	19.500	6424550
MWAM 12 21 FS	210	1.2	1	26.000	6424552
MWAM 12 31 FS	310	1.2	1	51.900	6424554
MWAM 12 41 FS	410	1.2	1	69.700	6424556

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



Characteristic load values for MWAM 12 wall and support bracket

Item on test	Force F (SWL)	Width B
MWAM 12 11 FS	1.2 kN	110 mm
MWAM 12 21 FS	1.2 kN	210 mm
MWAM 12 31 FS	1.2 kN	310 mm
MWAM 12 41 FS	1.2 kN	410 mm

Deformation measuring point m
 According to IEC 61537, Chapter 10.8.1
 Max. total load F = Cable weight + cable tray + bracket

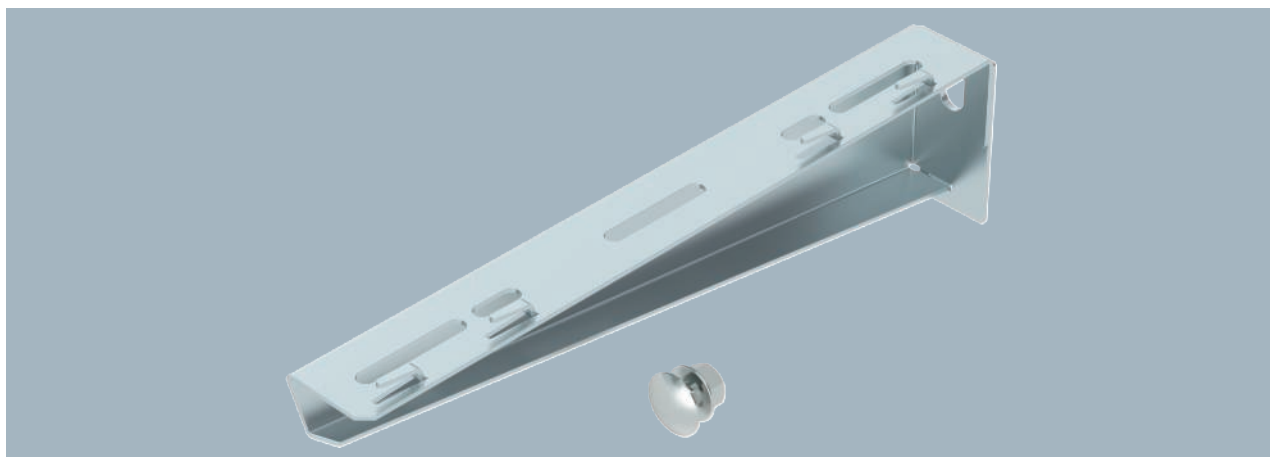
Characteristic anchor load values for MWAM 12 wall and support bracket – wall fastening

Load [kN]	Bracket width [mm]			
	110	210	310	410
Anchor type				
BZ3 10x90/0-30	1.2	1.2	1.2	1.2
BZ-U 10-10-30/90	1.2	1.2	1.2	0.65

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Load

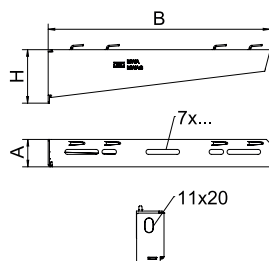
Wall and support bracket MWAG 12



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	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
MWAG 12 11 FS	110	1.2	1	12.700	6424600
MWAG 12 21 FS	210	1.2	1	24.400	6424608
MWAG 12 31 FS	310	1.2	1	50.300	6424616
MWAG 12 41 FS	410	1.2	1	68.000	6424624

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
MWAG 12 11 FS	110	32.5	53	11
MWAG 12 21 FS	210	32.5	65	11
MWAG 12 31 FS	310	38	75	11
MWAG 12 41 FS	410	38	83	11

Load

Characteristic load values for MWAG 12 wall and support bracket

Item on test	Force F (SWL)	Width B
MWAG 12 11 FS	1.2 kN	110 mm
MWAG 12 21 FS	1.2 kN	210 mm
MWAG 12 31 FS	1.2 kN	310 mm
MWAG 12 41 FS	1.2 kN	410 mm

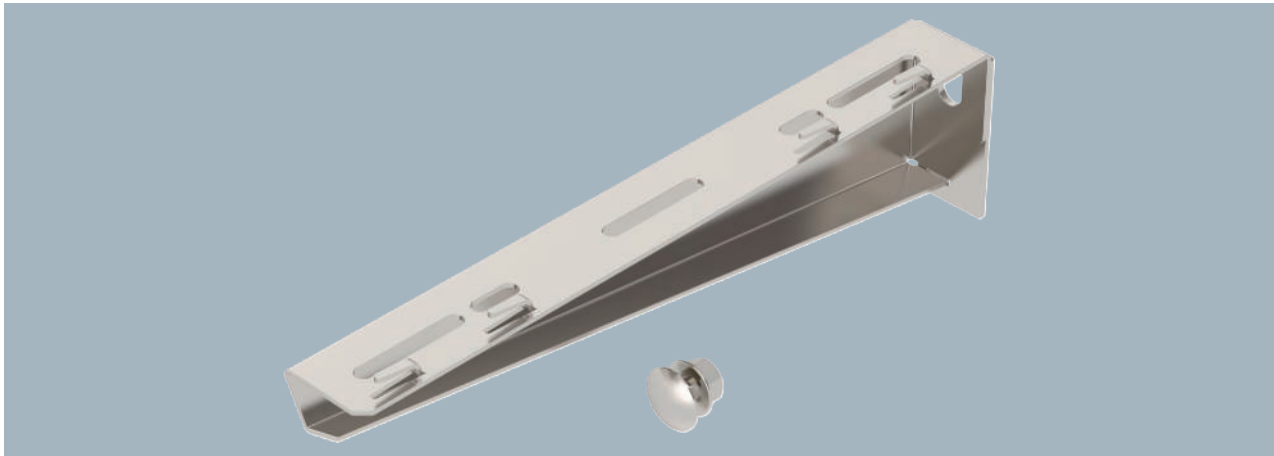
Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for MWAG 12 wall and support bracket – wall fastening

Load [kN]	110	210	310	410
Bracket width [mm]				
Anchor type				
BZ3 10x90/0-30	1.2	1.2	1.2	1.2
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

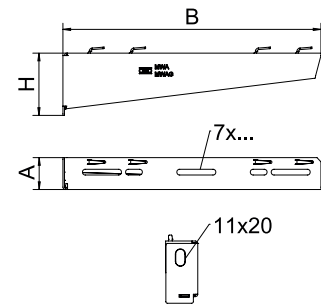
The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Wall and support bracket MWAG 12



Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
MWAG 12 11 A2	110	1.2	1	16.000	6424400
MWAG 12 21 A2	210	1.2	1	26.900	6424402
MWAG 12 31 A2	310	1.2	1	51.800	6424404
MWAG 12 41 A2	410	1.2	1	69.200	6424406
MWAG 12 11 A4	110	1.2	1	16.000	6424410
MWAG 12 21 A4	210	1.2	1	26.900	6424412
MWAG 12 31 A4	310	1.2	1	51.800	6424414
MWAG 12 41 A4	410	1.2	1	69.200	6424416

Including truss-head bolt M10 x 25 for fastening to U supports.
Light-duty wall and support bracket with edged design for screw-less mesh cable tray fastening.



Characteristic load values for MWAG 12 wall and support bracket

Item on test	Force F (SWL)	Width B
MWAG 12 11 FS	1.2 kN	110 mm
MWAG 12 21 FS	1.2 kN	210 mm
MWAG 12 31 FS	1.2 kN	310 mm
MWAG 12 41 FS	1.2 kN	410 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

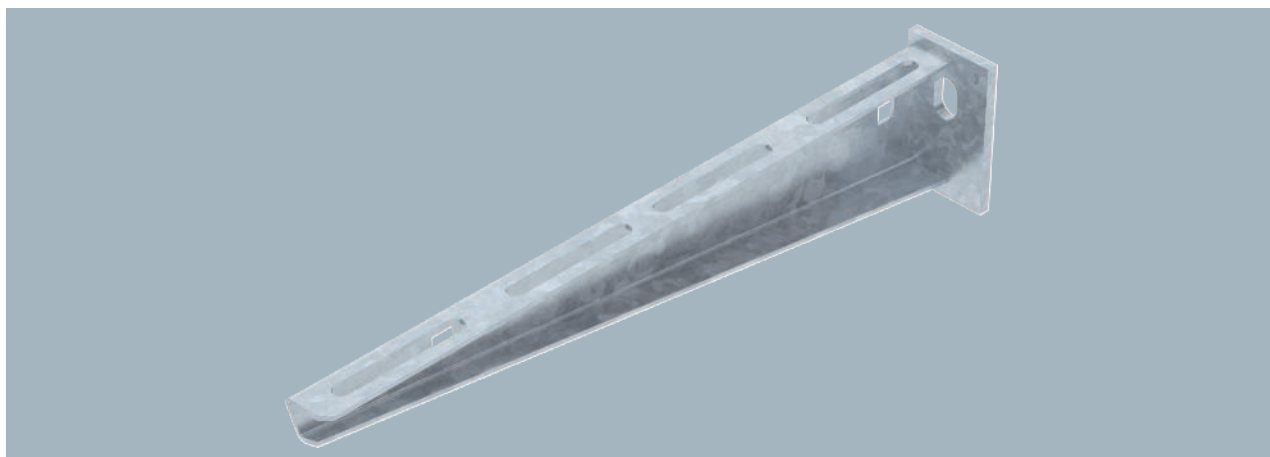
Characteristic anchor load values for MWAG 12 wall and support bracket – wall fastening

Load [kN]	110	210	310	410
Bracket width [mm]				
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Load

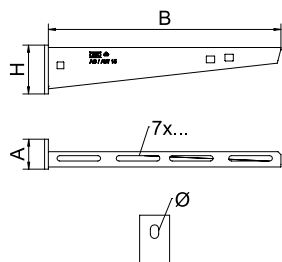
Wall and support bracket AW 15



Fastening of the bracket to the U support of width 400 mm or greater using a 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	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 15 11 FT	110	1.5	1	13.100	6420656
AW 15 16 FT	160	1.5	1	20.000	6420664
AW 15 21 FT	210	1.5	1	24.000	6420680
AW 15 31 FT	310	1.5	1	38.400	6420710
AW 15 41 FT	410	1.5	1	54.000	6420745
AW 15 51 FT	510	1.5	1	67.300	6420788
AW 15 56 FT	560	1.5	1	77.000	6420796
AW 15 61 FT	610	1.5	1	85.000	6420826

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm
AW 15 11 FT	110	40	50
AW 15 16 FT	160	40	55
AW 15 21 FT	210	40	60
AW 15 31 FT	310	40	65
AW 15 41 FT	410	40	70
AW 15 51 FT	510	40	75
AW 15 56 FT	560	40	80
AW 15 61 FT	610	40	80

Load

Characteristic anchor load values for wall bracket AW 15 - wall fastening

Item on test	Force F (SWL)	Width B
AW 15 11 FT	1.5 kN	110 mm
AW 15 16 FT	1.5 kN	160 mm
AW 15 21 FT	1.5 kN	210 mm
AW 15 31 FT	1.5 kN	310 mm
AW 15 36 FT	1.5 kN	360 mm
AW 15 41 FT	1.5 kN	410 mm
AW 15 51 FT	1.5 kN	510 mm
AW 15 56 FT	1.5 kN	560 mm
AW 15 61 FT	1.5 kN	610 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1

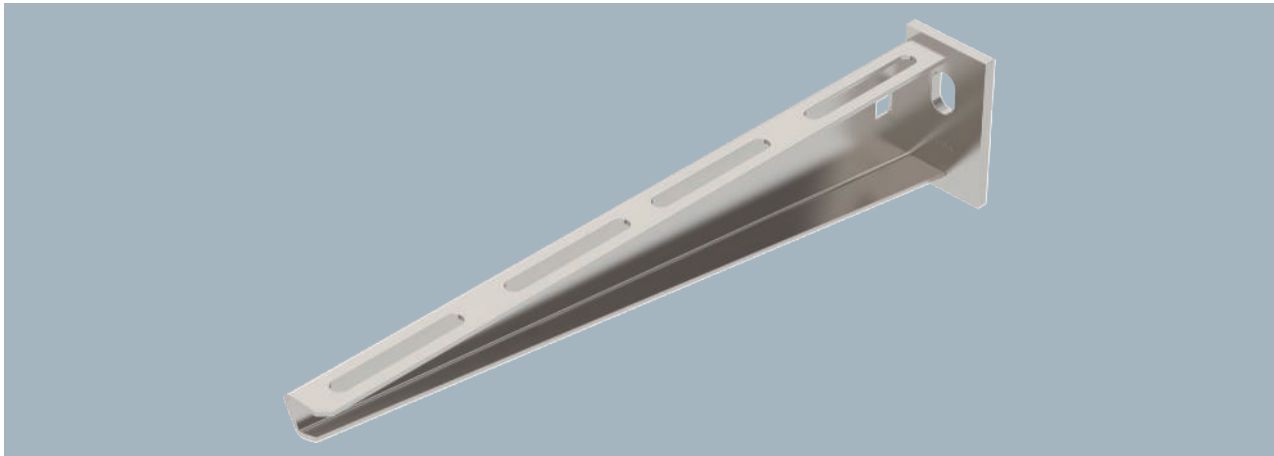
Max. total load F = cable weight + cable tray + bracket

Characteristic anchor load values for AW15 wall bracket – wall fastening

Load [kN]	110%	160	210	310	410	510	560	610
Bracket width [mm]								
Anchor type BZ3 10x90/0-30	1.5	1.5	1.5	1.47	1.25	1.13	0.95	0.94

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Wall and support bracket AW 15

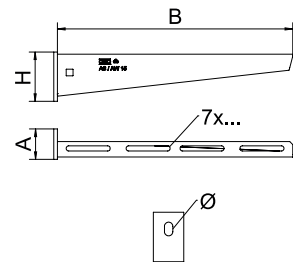


Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 15 11 A2	110	1.5	1	12.500	6421008
AW 15 21 A2	210	1.5	1	24.000	6421024
AW 15 31 A2	310	1.5	1	38.200	6421032
AW 15 41 A2	410	1.5	1	55.000	6421036
AW 15 51 A2	510	1.5	1	64.400	6421040
AW 15 61 A2	610	1.5	1	85.000	6421044

Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.
Light-duty wall and support bracket with welded head plate.

Type	Dim. B mm	Dim. A mm	Dim. 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



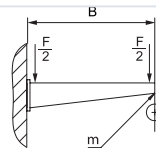
Characteristic anchor load values for wall bracket AW 15 - wall fastening

Item on test	Force F (SWL)	Length L
AW 15 11 A2	0.15 kN	110 mm
AW 15 21 A2	0.15 kN	210 mm
AW 15 31 A2	0.15 kN	310 mm
AW 15 41 A2	0.15 kN	410 mm
AW 15 51 A2	0.15 kN	510 mm
AW 15 61 A2	0.15 kN	610 mm

Deformation measuring point m

According to IEC 61537, Chapter 10.8.1

Max. total load F = Cable weight + cable tray + bracket



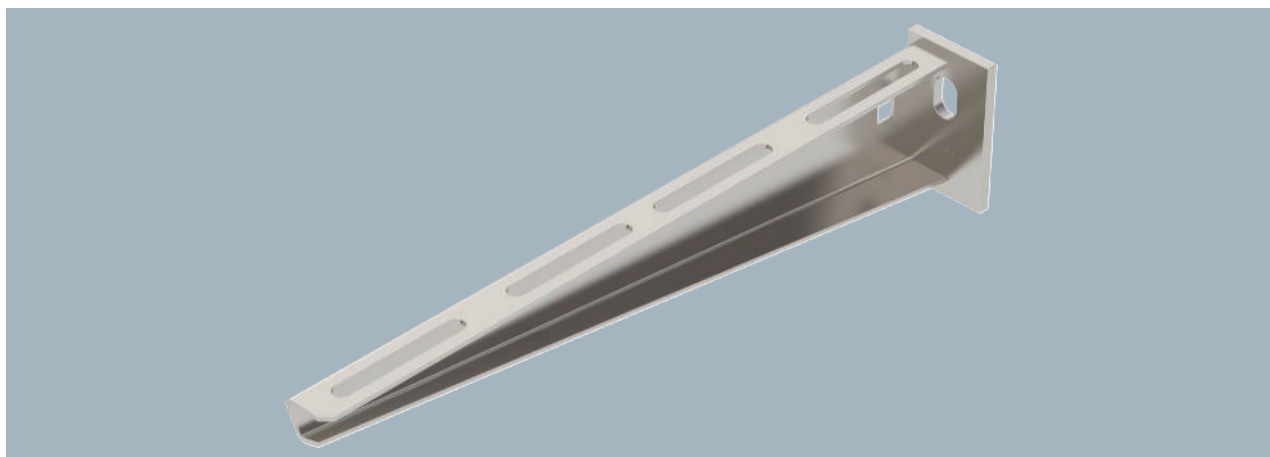
Load

Characteristic anchor load values for AW15 wall bracket – wall fastening

Load [kN]	110%	160	210	310	410	510	560	610
Bracket width [mm]								
Anchor type								
BZ3 10x90/0-30	1.5	1.5	1.5	1.47	1.25	1.13	0.95	0.94

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Wall and support bracket AW 15

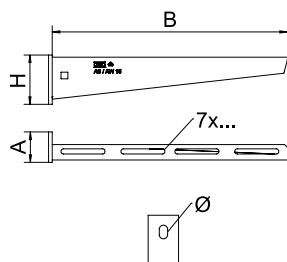


Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

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

Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 15 11 A4	110	1.5	1	12.500	6392008
AW 15 21 A4	210	1.5	1	24.000	6392016
AW 15 31 A4	310	1.5	1	37.400	6392024
AW 15 41 A4	410	1.5	1	55.000	6392032
AW 15 51 A4	510	1.5	1	64.400	6392040
AW 15 61 A4	610	1.5	1	85.000	6392059

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW 15 11 A4	110	40	50	11
AW 15 21 A4	210	40	60	11
AW 15 31 A4	310	40	65	11
AW 15 41 A4	410	40	70	11
AW 15 51 A4	510	40	75	11
AW 15 61 A4	610	40	80	11

Load

Characteristic anchor load values for wall bracket AW 15 - wall fastening

Item on test	Force F (SWL)	Width B
AW 15 11 A4	0.15 kN	110 mm
AW 15 21 A4	0.15 kN	210 mm
AW 15 31 A4	0.15 kN	310 mm
AW 15 41 A4	0.15 kN	410 mm
AW 15 51 A4	0.15 kN	510 mm
AW 15 61 A4	0.15 kN	610 mm

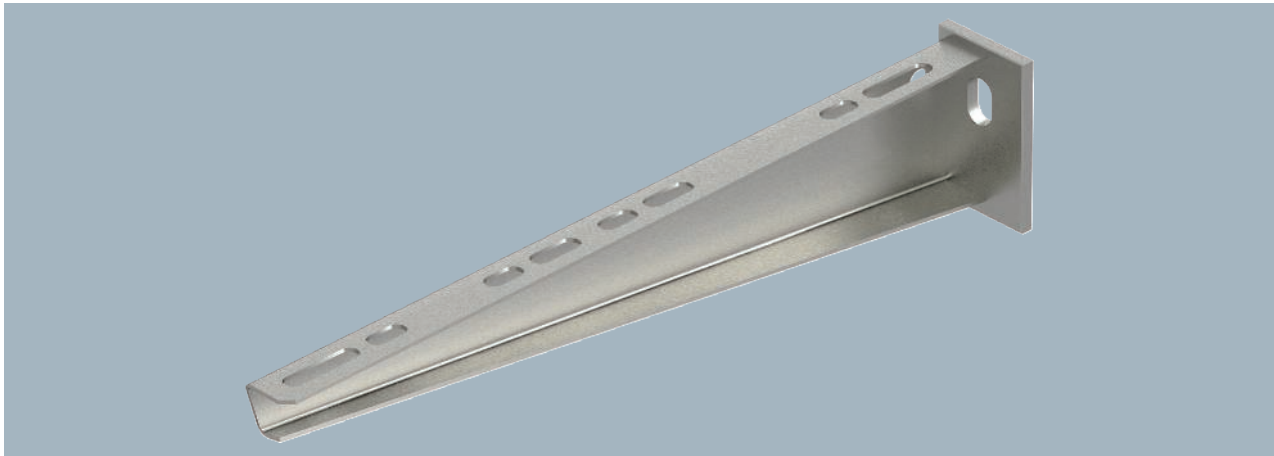
Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for AW15 wall bracket – wall fastening

Load [kN]				
Bracket width [mm]	110	210	310	410
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Wall and support bracket AW 15



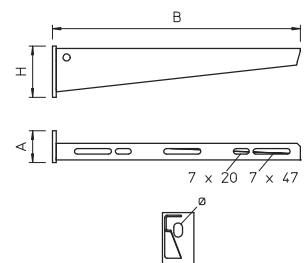
Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 15 21 VA4529	210	1.5	30	24.000	6421192

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

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

Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW 15 21 VA4529	210	40	60	11

Dimensions



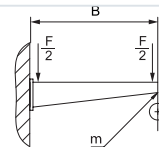
Load diagram, bracket AW 15 VA

- 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 - Wall fastening

Test item	Force F (SWL)	Width B
AW 15 21 VA4529	1.5 kN	210 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket



Characteristic anchor load values for AW15 wall bracket – wall fastening

Load [kN]	110	210	310	410
Bracket width [mm]				
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

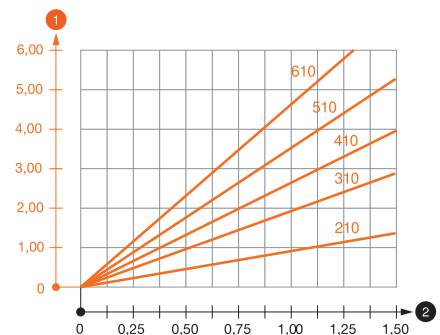
The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Characteristic anchor load values for wall and support bracket AW 15

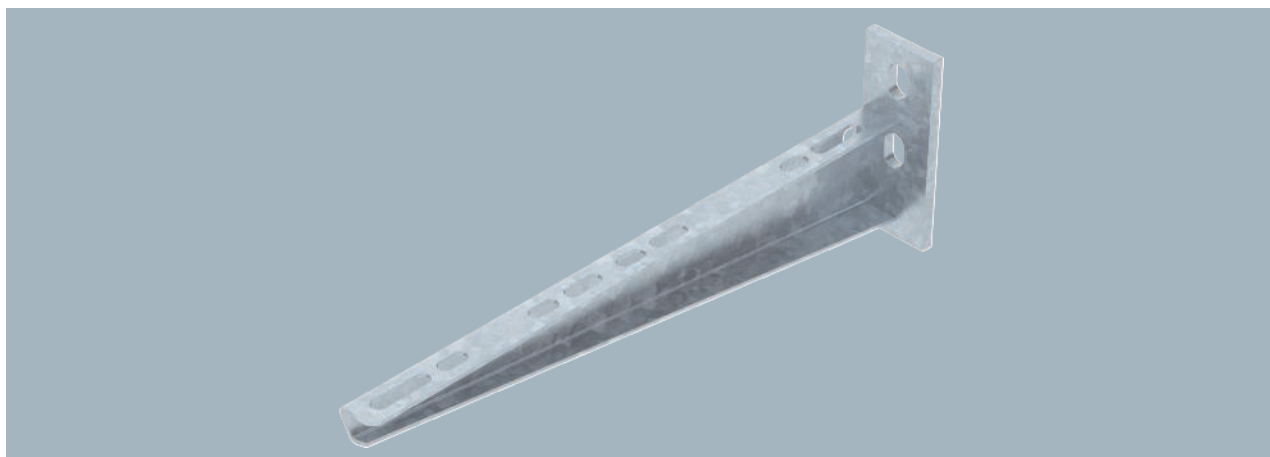
anchors Approved	Bracket load					
	Max. load F in kN					
F kN	Bracket length in mm					
3.57	100	200	300	400	500	600
	1.09	0.90	0.73	0.65	0.61	0.55

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).

Load



Wall and support bracket AW 15 2L

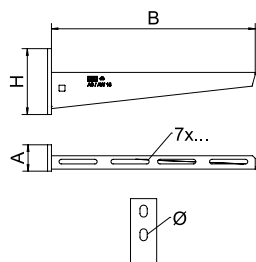


Wall and support bracket with welded head plate and two fastening holes.

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

Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	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	90.000	6420927

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. 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

Characteristic anchor load values for wall bracket AW 15 - Wall fastening

Item on test	Force F (SWL)	Width B
AW 15 11 FT 2L	1.5 kN	110 mm
AW 15 16 FT 2L	1.5 kN	160 mm
AW 15 21 FT 2L	1.5 kN	210 mm
AW 15 31 FT 2L	1.5 kN	310 mm
AW 15 41 FT 2L	1.5 kN	410 mm
AW 15 51 FT 2L	1.5 kN	510 mm
AW 15 61 FT 2L	1.5 kN	610 mm

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).

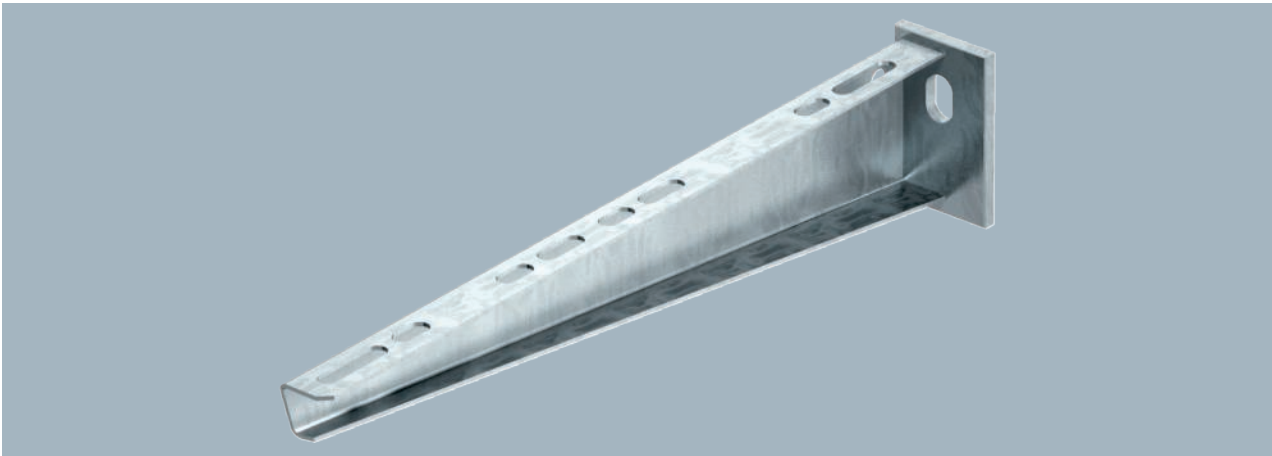
Characteristic anchor load values for AW15 wall bracket – wall fastening

Load [kN]								
Bracket width [mm]	110	160	210	310	410	510	560	610
Anchor type								
BZ3 10x90/0-30	1.5	1.5	1.5	1.47	1.25	1.13	0.95	0.94
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2	0.65			
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2				

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Wall and support bracket AW 15 FT SOMY

St FT SO

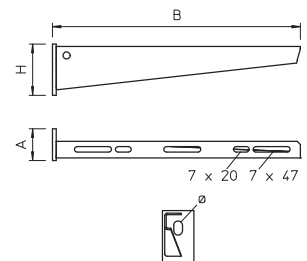


Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 15 16 FT SO	160	1.5	30	21.000	7191923
AW 15 51 FT SO	510	1.5	20	68.900	7191931

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

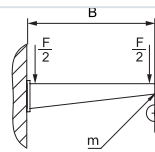
Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW 15 16 FT SO	160	40	55	11
AW 15 51 FT SO	510	40	75	11

Dimensions



Characteristic anchor load values for AW15 wall bracket – wall fastening

Item on test	Force F (SWL)	Width B
AW 15 11 FT SO	0.15 kN	110 mm
AW 15 16 FT SO	0.15 kN	160 mm
AW 15 21 FT SO	0.15 kN	175 mm
AW 15 31 FT SO	0.15 kN	310 mm
AW 15 36 FT SO	0.15 kN	360 mm
AW 15 41 FT SO	0.15 kN	410 mm
AW 15 51 FT SO	0.15 kN	510 mm
AW 15 56 FT SO	0.15 kN	560 mm
AW 15 61 FT SO	0.15 kN	610 mm



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).

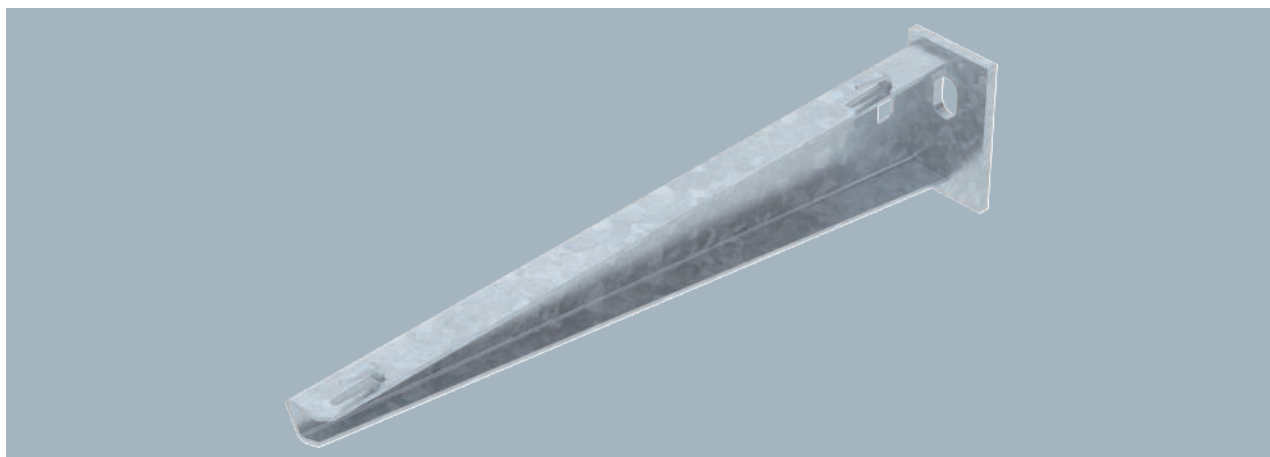
Characteristic anchor load values for AW15 wall bracket – wall fastening

Load [kN]				
Bracket width [mm]	110	210	310	410
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Load

Wall and support bracket AWG 15

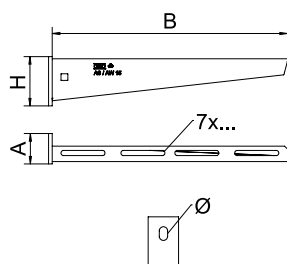


Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate for screwless mesh cable tray fastening.

Type	Width mm	F in kN		Pack Piece	Weight kg/100 pc.	Item no.
AW G 15 11 FT	110	1.5		1	14.000	6420606
AW G 15 16 FT	160	1.5		1	20.000	6420607
AW G 15 21 FT	210	1.5	🔥	1	26.000	6420608
AW G 15 31 FT	310	1.5	🔥	1	35.000	6420610
AW G 15 41 FT	410	1.5	🔥	1	56.000	6420612
AW G 15 51 FT	510	1.5		1	69.000	6420614
AW G 15 61 FT	610	1.5		1	84.000	6420616

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW G 15 11 FT	110	40	50	11
AW G 15 16 FT	160	40	55	11
AW G 15 21 FT	210	40	60	11
AW G 15 31 FT	310	40	65	11
AW G 15 41 FT	410	40	70	11
AW G 15 51 FT	510	40	75	11
AW G 15 61 FT	610	40	80	11

Load

Characteristic anchor load values for wall bracket AWG 15 – wall fastening

Item on test	Force F (SWL)	Width B
AWG 15 11 FT	0.15 kN	110 mm
AWG 15 16 FT	0.15 kN	160 mm
AWG 15 21 FT	0.15 kN	210 mm
AWG 15 31 FT	0.15 kN	310 mm
AWG 15 41 FT	0.15 kN	410 mm
AWG 15 51 FT	0.15 kN	510 mm
AWG 15 61 FT	0.15 kN	610 mm

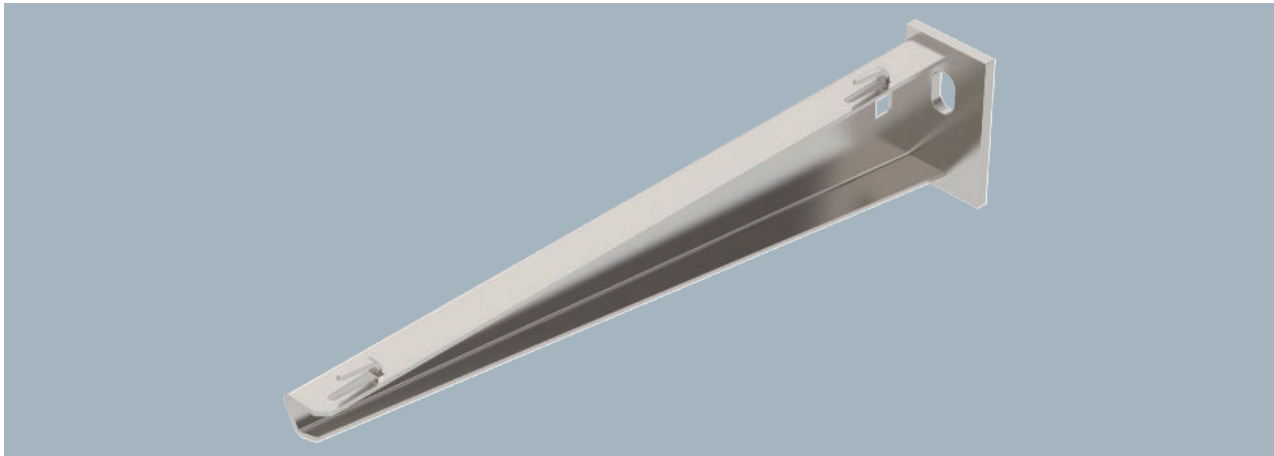
Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for AW G 15 wall bracket – wall fastening

Load [kN]	110%	160	210	310	410	510	560	610
Bracket width [mm]								
Anchor type								
BZ3 10x90/0-30	1.5	1.5	1.5	1.47	1.25	1.13	0.95	0.94

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Wall and support bracket AWG 15

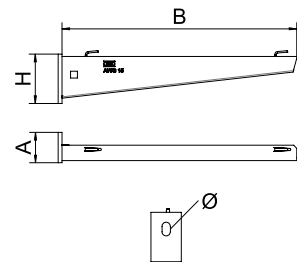


Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AWG 15 11 A2	110	1.5	1	13.000	6420625
AWG 15 21 A2	210	1.5	1	25.000	6420628
AWG 15 31 A2	310	1.5	1	33.000	6420631
AWG 15 41 A2	410	1.5	1	53.000	6420634
AWG 15 51 A2	510	1.5	1	65.000	6420637
AWG 15 61 A2	610	1.5	1	80.000	6420640

Fastening of the bracket to the U support of width 400 mm or greater using a 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.

Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AWG 15 11 A2	110	40	50	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

Dimensions



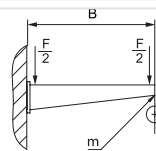
Characteristic anchor load values for wall bracket AWG 15 - wall fastening

Item on test	Force F (SWL)	Length L
AWG 15 11 A2	0.15 kN	110 mm
AWG 15 21 A2	0.15 kN	210 mm
AWG 15 31 A2	0.15 kN	310 mm
AWG 15 41 A2	0.15 kN	410 mm
AWG 15 51 A2	0.15 kN	510 mm
AWG 15 61 A2	0.15 kN	610 mm

Deformation measuring point m

According to IEC 61537, Chapter 10.8.1

Max. total load F = Cable weight + cable tray + bracket



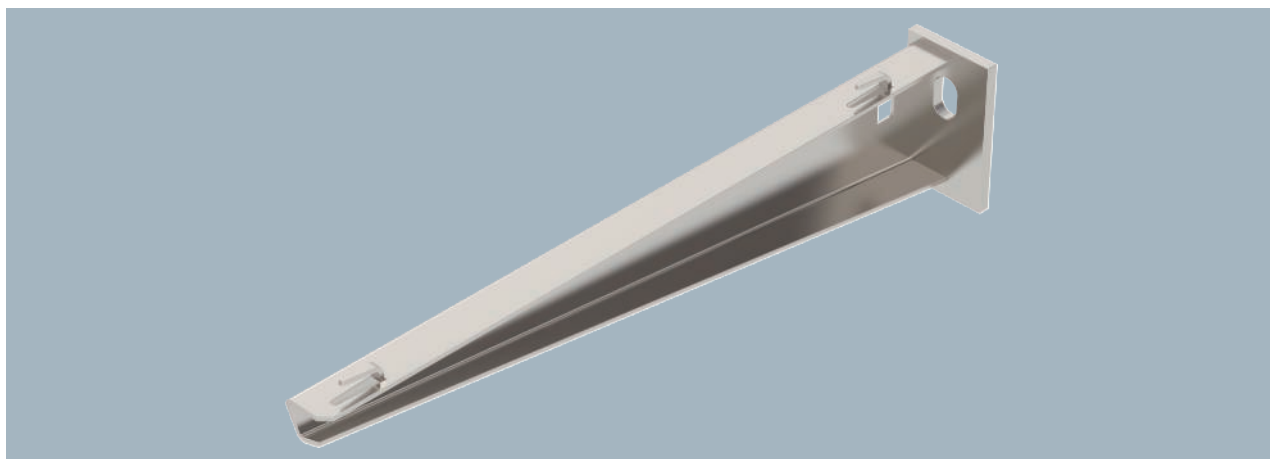
Load

Characteristic anchor load values for AW G 15 wall bracket – wall fastening

Load [kN]	110%	160	210	310	410	510	560	610
Bracket width [mm]								
Anchor type								
BZ3 10x90/0-30	1.5	1.5	1.5	1.47	1.25	1.13	0.95	0.94

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

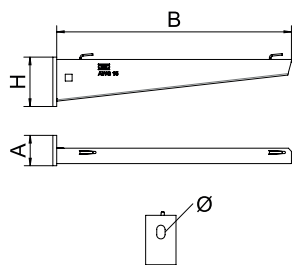
Wall and support bracket AWG 15



Fastening of the bracket to the U support of width 400 mm or greater using a 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.

Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AWG 15 11 A4	110	1.5	1	13.000	6420642
AWG 15 21 A4	210	1.5	1	25.000	6420644
AWG 15 31 A4	310	1.5	1	33.000	6420646
AWG 15 41 A4	410	1.5	1	53.000	6420648
AWG 15 51 A4	510	1.5	1	65.000	6420650
AWG 15 61 A4	610	1.5	1	80.000	6420652

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AWG 15 11 A4	110	40	50	11
AWG 15 21 A4	210	40	60	11
AWG 15 31 A4	310	40	65	11
AWG 15 41 A4	410	40	70	11
AWG 15 51 A4	510	40	75	11
AWG 15 61 A4	610	40	80	11

Load

Characteristic anchor load values for wall bracket AWG 15 - wall fastening

Item on test	Force F (SWL)	Width B
AWG 15 11 A4	0.15 kN	110 mm
AWG 15 21 A4	0.15 kN	210 mm
AWG 15 31 A4	0.15 kN	310 mm
AWG 15 41 A4	0.15 kN	410 mm
AWG 15 51 A4	0.15 kN	510 mm
AWG 15 61 A4	0.15 kN	610 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

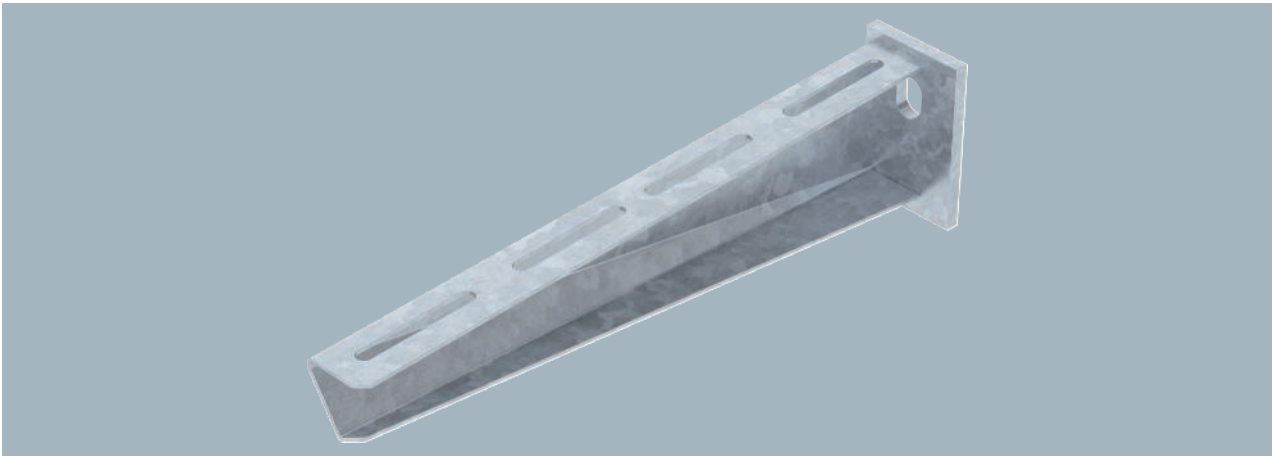
Characteristic anchor load values for AW G 15 wall bracket – wall fastening

Load [kN]				
Bracket width [mm]	110	210	310	410
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Wall and support bracket AW 30

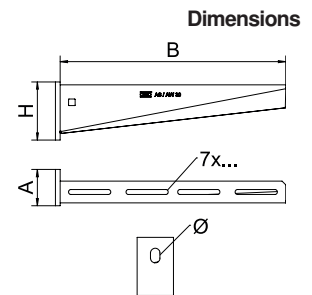
St FT



Type	Width		F in kN		BS	Pack Piece	Weight kg/100 pc.	Item no.
	mm		kN					
AW 30 11 FT	110	3			🔥	1	22.000	6419704
AW 30 16 FT	160	3				1	33.000	6419712
AW 30 21 FT	210	3			🔥	1	39.300	6419720
AW 30 31 FT	310	3			🔥	1	63.000	6419747
AW 30 41 FT	410	3			🔥	1	88.500	6419763
AW 30 51 FT	510	3				1	129.000	6419798
AW 30 56 FT	560	3				1	148.800	6419844
AW 30 61 FT	610	3				1	157.000	6419828
AW 30 71 FT	710	3				1	207.000	6419836

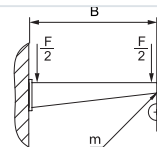
Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.
Medium-duty wall and support bracket with welded head plate.

Type	Dim.	Dim.	Dim.	Hole Ø
	B	A	H	
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 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



Characteristic anchor load values for wall bracket AW 30 - wall fastening

Item on test	Force F (SWL)	Width B
AW 30 11 FT	3 kN	110 mm
AW 30 16 FT	3 kN	160 mm
AW 30 21 FT	3 kN	210 mm
AW 30 31 FT	3 kN	310 mm
AW 30 41 FT	3 kN	410 mm
AW 30 51 FT	3 kN	510 mm
AW 30 61 FT	3 kN	610 mm
AW 30 71 FT	3 kN	710 mm



Deformation measuring point m

According to IEC 61537, Chapter 10.8.1

Max. total load F = cable weight + cable tray + bracket

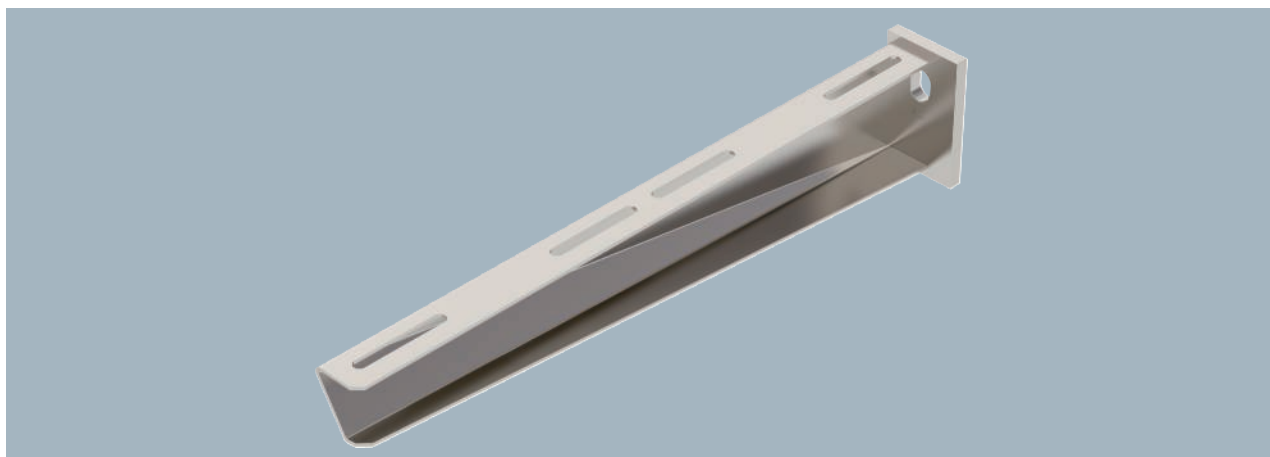
Characteristic anchor load values for AW 30 wall and support bracket – wall fastening

Load [kN]										
Bracket width [mm]	110%	160	210	310	410	510	560	610	710	
Anchor type										
BZ3 10x90/0-30	3.00	2.10								
BZ3 12x110/0-35			3.00	2.71	2.07	2.02	1.98	1.98	1.51	

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Load

Wall and support bracket AW 30

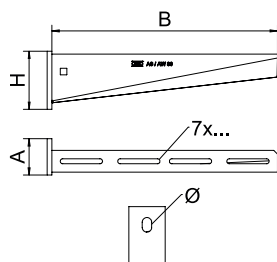


Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

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

Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
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	85.200	6442870
AW 30 51 A2	510	3	1	124.800	6442897
AW 30 61 A2	610	3	1	154.000	6442919

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. 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

Characteristic anchor load values for wall bracket AW 30 - wall fastening

Item on test	Force F (SWL)	Width B
AW 30 11 A2	3 kN	110 mm
AW 30 21 A2	3 kN	210 mm
AW 30 31 A2	3 kN	310 mm
AW 30 41 A2	3 kN	410 mm
AW 30 51 A2	3 kN	510 mm
AW 30 61 A2	3 kN	610 mm

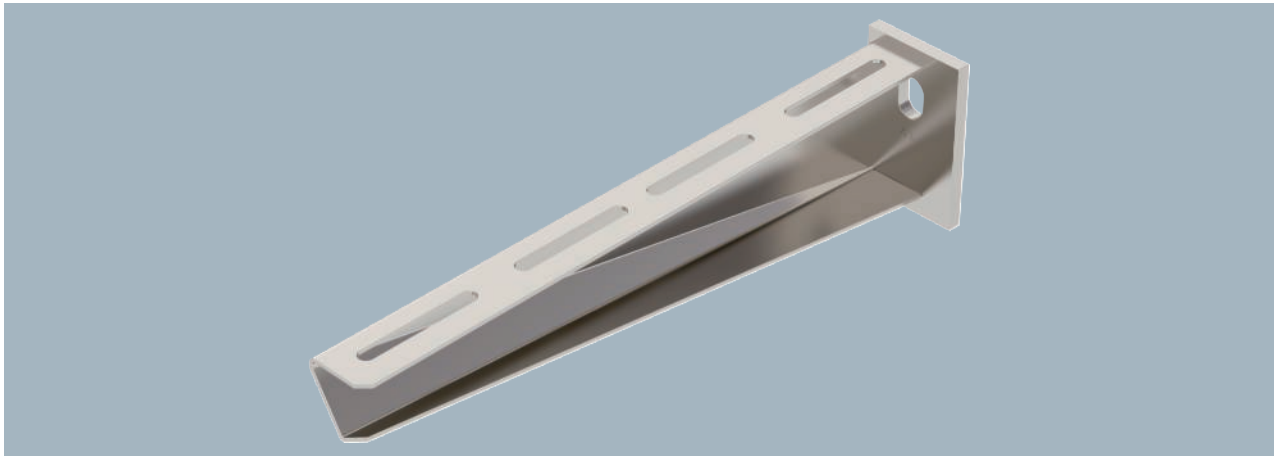
Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for AW 30 wall and support bracket – wall fastening

Load [kN]	110%	160	210	310	410	510	560	610	710
Bracket width [mm]									
Anchor type									
BZ3 10x90/0-30	3.00	2.10	1.65	1.4	1.5	1	1		
BZ3 12x110/0-35	3.00	2.65	3.00	2.71	2.07	2.02	1.98	1.98	1.51

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

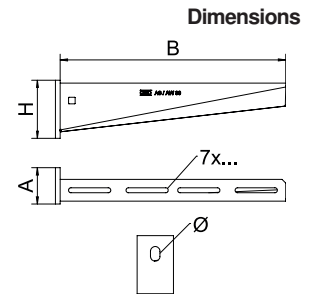
Wall and support bracket AW 30



Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
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	85.200	6443346
AW 30 51 A4	510	3	1	124.800	6443625
AW 30 61 A4	610	3	1	154.000	6443627

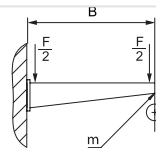
Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.
Medium-duty wall and support bracket with welded head plate.

Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW 30 11 A4	110	50	60	11
AW 30 21 A4	210	50	70	13
AW 30 31 A4	310	50	80	13
AW 30 41 A4	410	50	80	13
AW 30 51 A4	510	50	90	13
AW 30 61 A4	610	50	100	13



Characteristic anchor load values for wall bracket AW 30 - wall fastening

Item on test	Force F (SWL)	Width B
AW 30 11 A4	3 kN	110 mm
AW 30 21 A4	3 kN	210 mm
AW 30 31 A4	3 kN	310 mm
AW 30 41 A4	3 kN	410 mm
AW 30 51 A4	3 kN	510 mm
AW 30 61 A4	3 kN	610 mm



Load

Deformation measuring point m

According to IEC 61537, Chapter 10.8.1

Max. total load F = Cable weight + cable tray + bracket

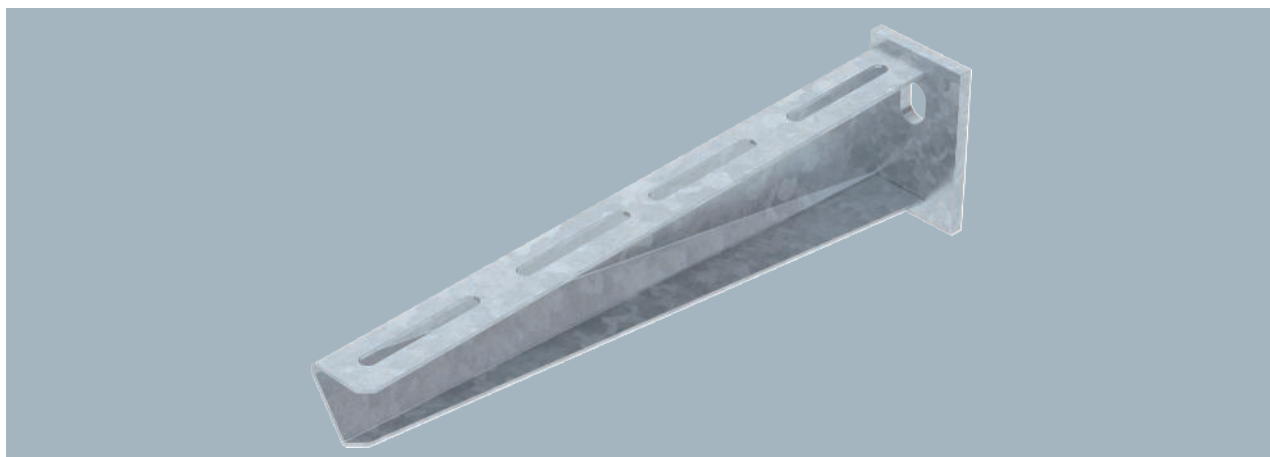
Characteristic anchor load values for AW 30 wall and support bracket – wall fastening

Load [kN]								
Bracket width [mm]	110	160	210	310	410	510	560	
Anchor type								
BZ-U 10-10-30/90	1.5	2.1	1.65	1.4	1.5	1	1	
BZ 12-15-35/110	3.00	2.65	2.9	1.5	1.9	1.8	1.75	

The load capacity values increase considerably when used in uncracked concrete.

The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Wall and support bracket AW 30

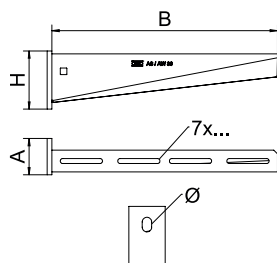


Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

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

Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 30 26 FT	260	3	1	53.000	6419739

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW 30 26 FT	260	50	70	13

Load

Characteristic anchor load values for wall bracket AW 30 - wall fastening

Item on test	Force F (SWL)	Width B
AW 30 11 FT	3 kN	110 mm
AW 30 16 FT	3 kN	160 mm
AW 30 21 FT	3 kN	210 mm
AW 30 31 FT	3 kN	310 mm
AW 30 41 FT	3 kN	410 mm
AW 30 51 FT	3 kN	510 mm
AW 30 61 FT	3 kN	610 mm
AW 30 71 FT	3 kN	710 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1

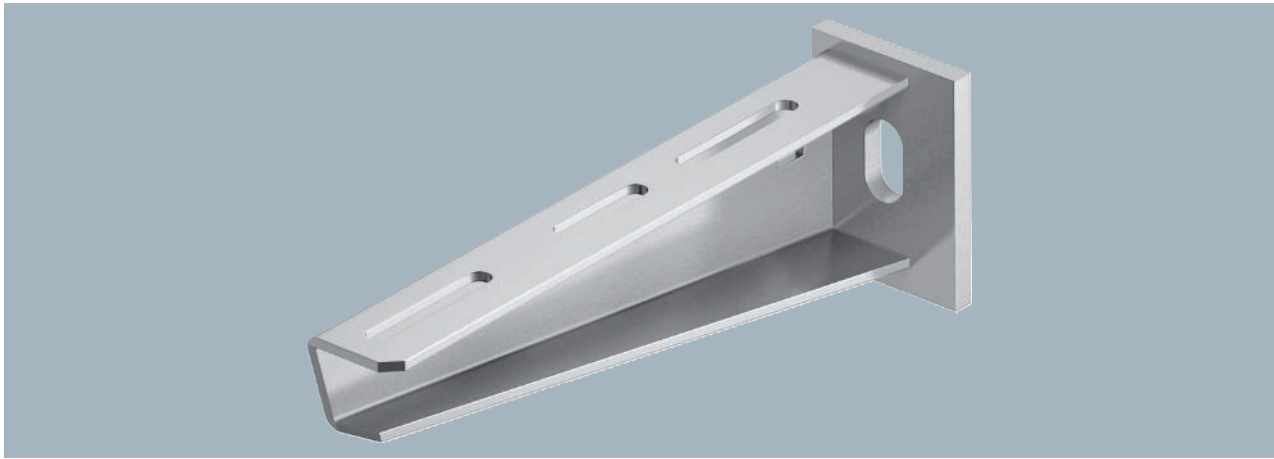
Max. total load F = cable weight + cable tray + bracket

Characteristic anchor load values for AW 30 wall and support bracket – wall fastening

Load [kN]									
Bracket width [mm]	110%	160	210	310	410	510	560	610	710
Anchor type									
BZ3 10x90/0-30	3.00	2.10							
BZ3 12x110/0-35			3.00	2.71	2.07	2.02	1.98	1.98	1.51

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Wall and support bracket AW 30

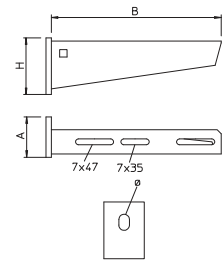


Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 30 21 VA4529	210	3	1	37.500	6443632

Medium-duty wall and support bracket with welded head plate. Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

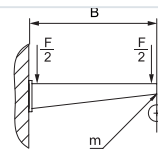
Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW 30 21 VA4529	—	50	70	13

Dimensions



Characteristic anchor load values for AW30 wall bracket – wall fastening

Test item	Force F (SWL)	Width B
AW 30 21 VA4529	3 kN	210 mm



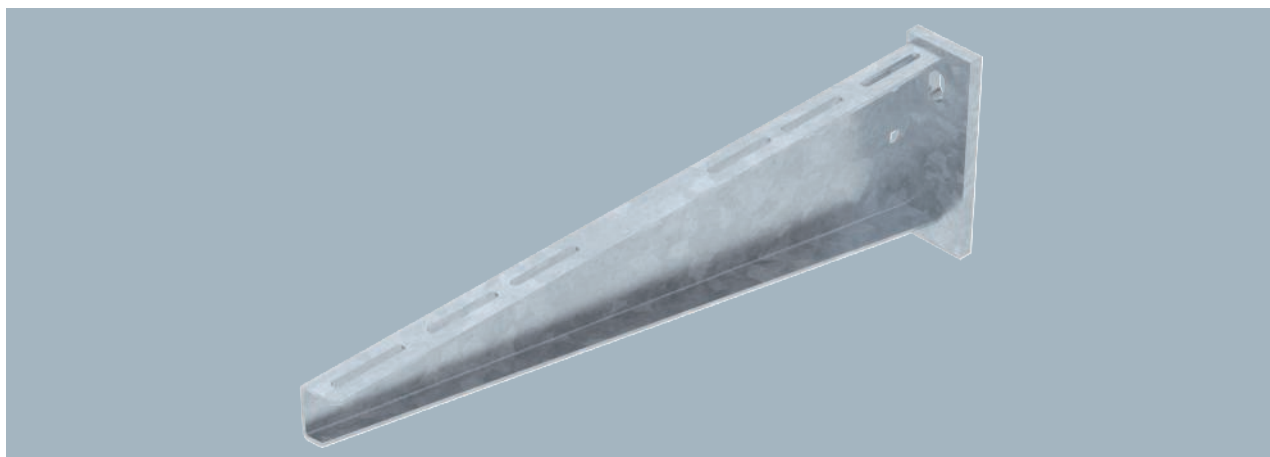
Load

Characteristic anchor load values for AW 30 wall and support bracket – wall fastening

Load [kN]								
Bracket width [mm]	110	160	210	310	410	510	560	
Anchor type								
BZ-U 10-10-30/90	1.5	2.1	1.65	1.4	1.5	1	1	
BZ 12-15-35/110	3.00	2.65	2.9	1.5	1.9	1.8	1.75	

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

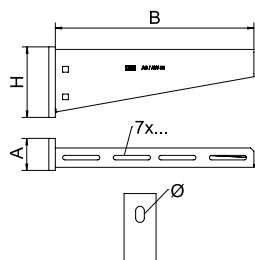
Wall and support bracket AW 55



Heavy-duty wall and support bracket with welded head plate.
Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Type	Width mm	F in kN	BS	Pack Piece	Weight kg/100 pc.	Item no.
AW 55 21 FT	210	5.5		1	75.700	6418554
AW 55 31 FT	310	5.5		1	122.000	6418570
AW 55 41 FT	410	5.5		1	164.400	6418597
AW 55 51 FT	510	5.5		1	238.200	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

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW 55 21 FT	210	50	90	13.5
AW 55 31 FT	310	50	110	13.5
AW 55 41 FT	410	50	130	13.5
AW 55 51 FT	510	60	145	13.5
AW 55 56 FT	560	60	165	13.5
AW 55 61 FT	610	60	165	13.5
AW 55 71 FT	710	60	195	13.5
AW 55 81 FT	810	60	195	13.5
AW 55 91 FT	910	60	215	13.5
AW 55 101 FT	1010	60	230	13.5

Load

Characteristic anchor load values for wall bracket AW 55 - wall fastening

Item on test	Force F (SWL)	Width B
AW 55 21 FT	0.950 kN	210 mm
AW 55 31 FT	0.950 kN	310 mm
AW 55 41 FT	0.950 kN	410 mm
AW 55 51 FT	0.950 kN	510 mm
AW 55 56 FT	0.950 kN	560 mm
AW 55 61 FT	0.950 kN	610 mm
AW 55 71 FT	0.950 kN	710 mm
AW 55 81 FT	0.950 kN	810 mm
AW 55 91 FT	0.950 kN	910 mm
AW 55 101 FT	0.950 kN	1,010 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for AW 55 wall and support bracket – wall fastening

Load [kN]										
Bracket width [mm]	210	310	410	510	560	610	710	810	910	1,010
Anchor type										
BZ3 12x110/0-35	3.92	3.83	3.79	3.46	3.30	3.30	3.15	2.53	2.38	2.23

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

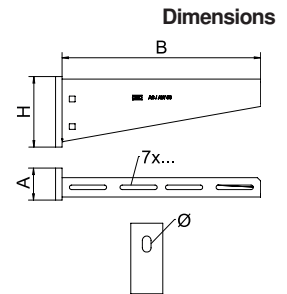
Wall and support bracket AW 55



Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 55 21 A2	210	5.5	1	77.000	6443063
AW 55 31 A2	310	5.5	1	118.900	6443067
AW 55 41 A2	410	5.5	1	162.800	6443071
AW 55 51 A2	510	5.5	1	232.500	6443075
AW 55 61 A2	610	5.5	1	305.000	6443079
AW 55 71 A2	710	5.5	1	445.000	6443083

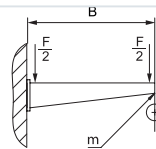
Heavy-duty wall and support bracket with welded head plate. Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Type	Dim. B mm	Dim. A mm	Dim. 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



Characteristic anchor load values for wall bracket AW 55 - wall fastening

Item on test	Force F (SWL)	Width B
AW 55 21 A2	0.950 kN	210 mm
AW 55 31 A2	0.950 kN	310 mm
AW 55 41 A2	0.950 kN	410 mm
AW 55 51 A2	0.950 kN	510 mm
AW 55 61 A2	0.950 kN	610 mm
AW 55 71 A2	0.950 kN	710 mm



Deformation measuring point m

According to IEC 61537, Chapter 10.8.1

Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for AW 55 wall and support bracket – wall fastening

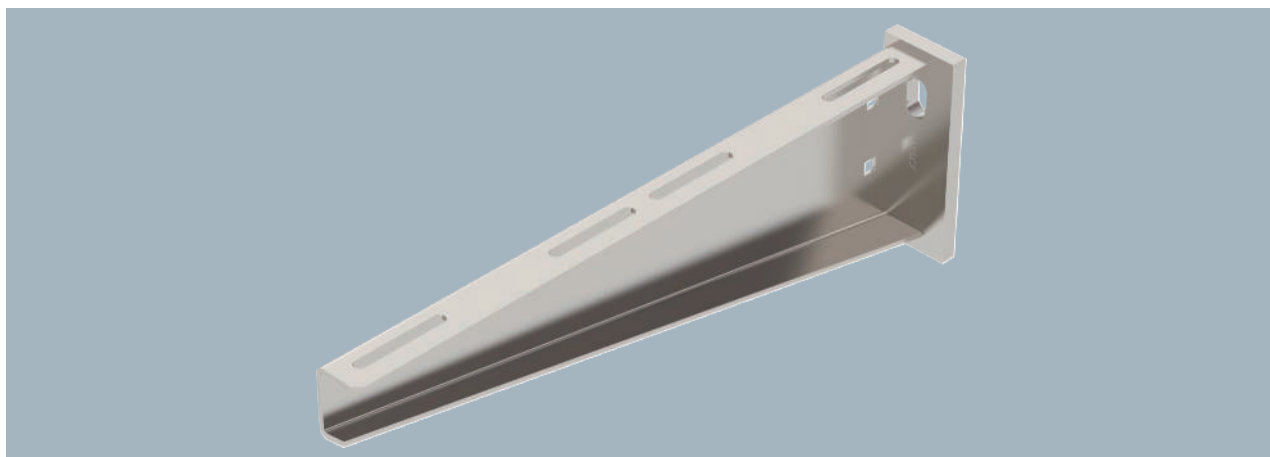
Load [kN]											
Bracket width [mm]	210	310	410	510	560	610	710	810	910	1,010	
Anchor type											
BZ3 12x110/0-35	3.92	3.83	3.79	3.46	3.30	3.30	3.15	2.53	2.38	2.23	

The load capacity values increase considerably when used in uncracked concrete.

The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Load

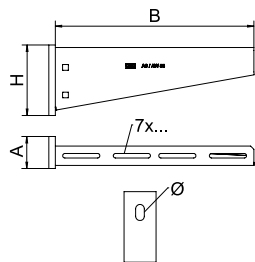
Wall and support bracket AW 55



Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.
Heavy-duty wall and support bracket with welded head plate.

Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 55 21 A4	210	5.5	1	77.000	6418557
AW 55 31 A4	310	5.5	1	118.900	6418573
AW 55 41 A4	410	5.5	1	162.800	6418601
AW 55 51 A4	510	5.5	1	232.500	6418622
AW 55 61 A4	610	5.5	1	305.000	6418638

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW 55 21 A4	210	50	90	13.5
AW 55 31 A4	310	50	110	13.5
AW 55 41 A4	410	50	130	13.5
AW 55 51 A4	510	60	145	13.5
AW 55 61 A4	610	60	165	13.5

Load

Characteristic anchor load values for wall bracket AW 55 - wall fastening

Item on test	Force F (SWL)	Width B
AW 55 21 A4	0.950 kN	210 mm
AW 55 31 A4	0.950 kN	310 mm
AW 55 41 A4	0.950 kN	410 mm
AW 55 51 A4	0.950 kN	510 mm
AW 55 61 A4	0.950 kN	610 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for AW 55 wall and support bracket – wall fastening

Load [kN]							
Bracket width [mm]	210	310	410	510	560	610	710
Anchor type							
BZ-U 10-10-30/90	2.2	2.1	2	1.9	1.9	1.8	1.75
BZ 12-15-35/110	3.8	3.5	3.5	3.25	3.3	3	3
SZ-B 18/0x142	4.10	4.06	4.02	3.83	3.83	3.56	2.88

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Wall bracket AW 80

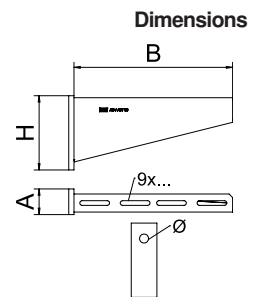


Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 80 21 FT	210	8	1	104.000	6417752
AW 80 31 FT	310	8	1	160.000	6417779
AW 80 41 FT	410	8	1	213.000	6417795
AW 80 51 FT	510	8	1	355.000	6417817
AW 80 61 FT	610	8	1	433.000	6417833
AW 80 71 FT	710	8	1	525.000	6417868
AW 80 81 FT	810	8	1	623.000	6417884

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.

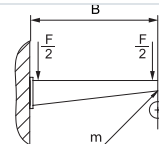
Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW 80 21 FT	210	50	110	17.5
AW 80 31 FT	310	50	145	17.5
AW 80 41 FT	410	50	165	17.5
AW 80 51 FT	510	60	195	17.5
AW 80 61 FT	610	60	210	17.5
AW 80 71 FT	710	60	235	17.5
AW 80 81 FT	810	60	260	17.5



Load

Characteristic anchor load values for wall bracket AW 80 - wall fastening

Item on test	Force F (SWL)	Width B
AW 80 21 FT	8 kN	210 mm
AW 80 31 FT	8 kN	310 mm
AW 80 41 FT	8 kN	410 mm
AW 80 51 FT	8 kN	510 mm
AW 80 61 FT	8 kN	610 mm
AW 80 71 FT	8 kN	710 mm
AW 80 81 FT	8 kN	810 mm



Deformation measuring point m

According to IEC 61537, Chapter 10.8.1

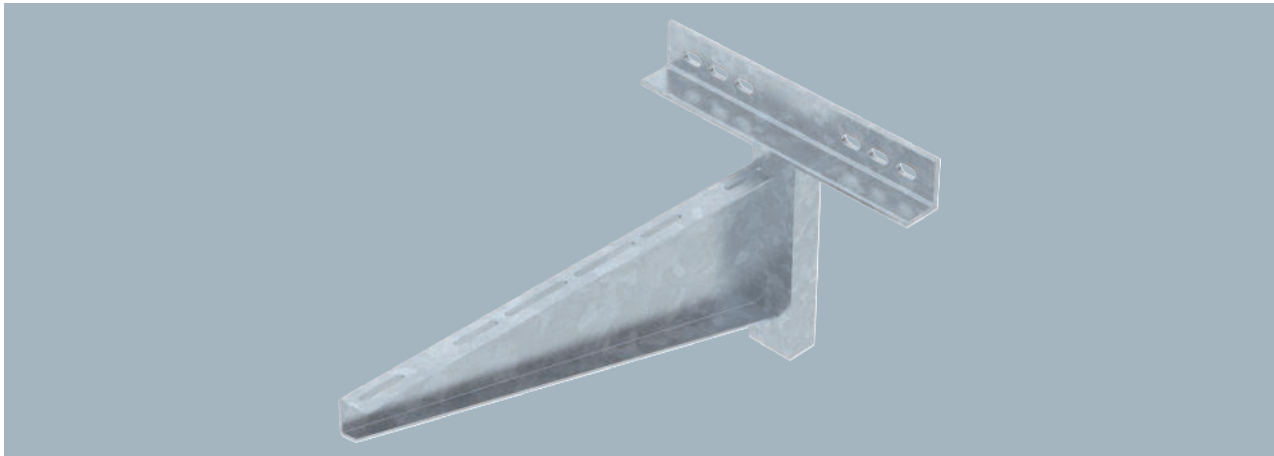
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for AW 80 wall and support bracket – wall fastening

Load [kN]								
Bracket width [mm]	210	310	410	510	610	710	810	
Anchor type								
BZ3 16x135/0-35	7.31	7.66	6.87	6.38	5.90	5.17	4.69	

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

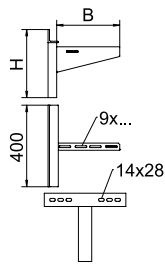
Wall and clamping bracket AWSS



The heavy-duty 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.

Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AWSS 21 FT	210	10	1	305.100	6417906
AWSS 31 FT	310	10	1	533.600	6417910
AWSS 41 FT	410	10	1	584.400	6417914
AWSS 51 FT	510	10	1	693.000	6417918
AWSS 61 FT	610	10	1	742.300	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

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. 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

Characteristic anchor load values for wall and clamping bracket AWSS - wall fastening

Item on test	Force F (SWL)	Width B
AWSS 21 FT	10 kN	210 mm
AWSS 31 FT	10 kN	310 mm
AWSS 41 FT	10 kN	410 mm
AWSS 51 FT	10 kN	510 mm
AWSS 61 FT	10 kN	610 mm
AWSS 71 FT	8 kN	710 mm
AWSS 81 FT	7 kN	810 mm
AWSS 91 FT	6.5 kN	910 mm
AWSS 101 FT	6 kN	1,010 mm

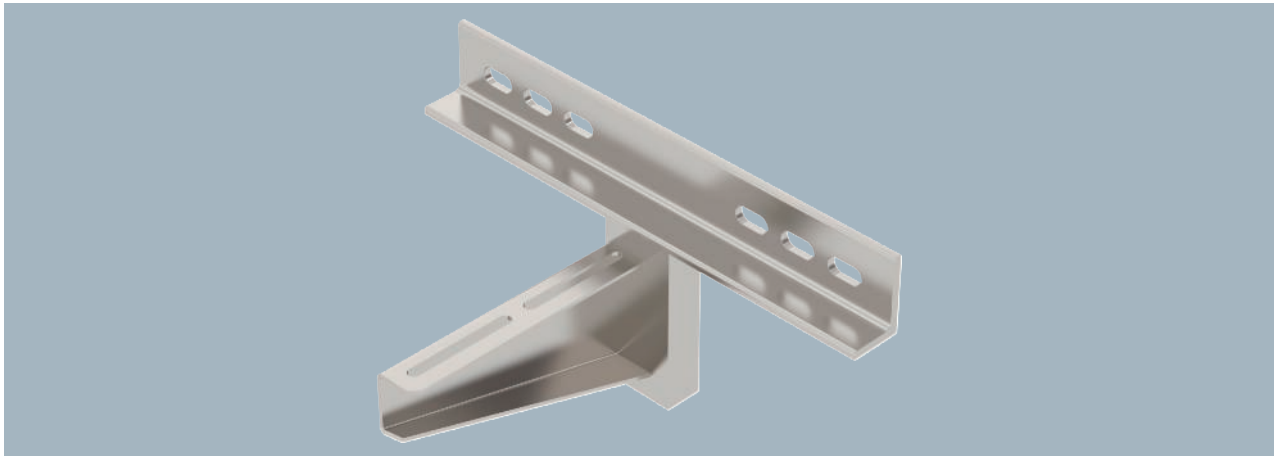
Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for AWSS wall bracket – wall fastening

Load [kN]	Bracket width [mm]								
	210	310	410	510	610	710	810	910	1,010
Anchor type	BZ3 12x110/0-35								
	9.31	10.0	9.47	8.55	7.60	5.98	5.01	4.56	3.90

Max. total load F = Cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Comply with the installation conditions of the DIBt approval (anchors). The testing of the widths 710–1,010 mm took place at the maximum route width (600 mm) with the load at the end of the bracket.

Wall and clamping bracket AWSS

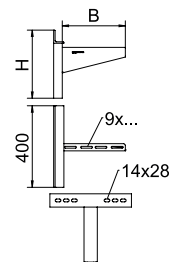


Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AWSS 21 A2	210	10	1	302.000	6417941
AWSS 31 A2	310	10	1	528.000	6417943
AWSS 41 A2	410	10	1	57.400	6417945
AWSS 51 A2	510	10	1	666.000	6417947
AWSS 61 A2	610	10	1	733.000	6417949
AWSS 21 A4	210	10	1	306.000	6417971
AWSS 31 A4	310	10	1	535.000	6417973
AWSS 41 A4	410	10	1	58.100	6417975
AWSS 51 A4	510	10	1	67.500	6417977
AWSS 61 A4	610	10	1	74.200	6417979

The heavy-duty 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.

Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AWSS 21 A2	210	400	200	14
AWSS 31 A2	310	400	335	14
AWSS 41 A2	410	400	335	14
AWSS 51 A2	510	400	335	14
AWSS 61 A2	610	400	335	14

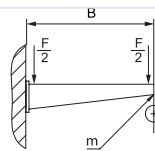
Dimensions



Load

Characteristic anchor load values for wall and clamping bracket AWSS - wall fastening

Item on test	Force F (SWL)	Width B
AWSS 21 A4	10 kN	210 mm
AWSS 31 A2	10 kN	310 mm
AWSS 41 A4	10 kN	410 mm
AWSS 51 A2	10 kN	510 mm
AWSS 61 A4	10 kN	610 mm
AWSS 71 A2	8 kN	710 mm
AWSS 81 A4	7 kN	810 mm
AWSS 91 A2	6.5 kN	910 mm
AWSS 101 A4	6 kN	1,010 mm



Deformation measuring point m

According to IEC 61537, Chapter 10.8.1

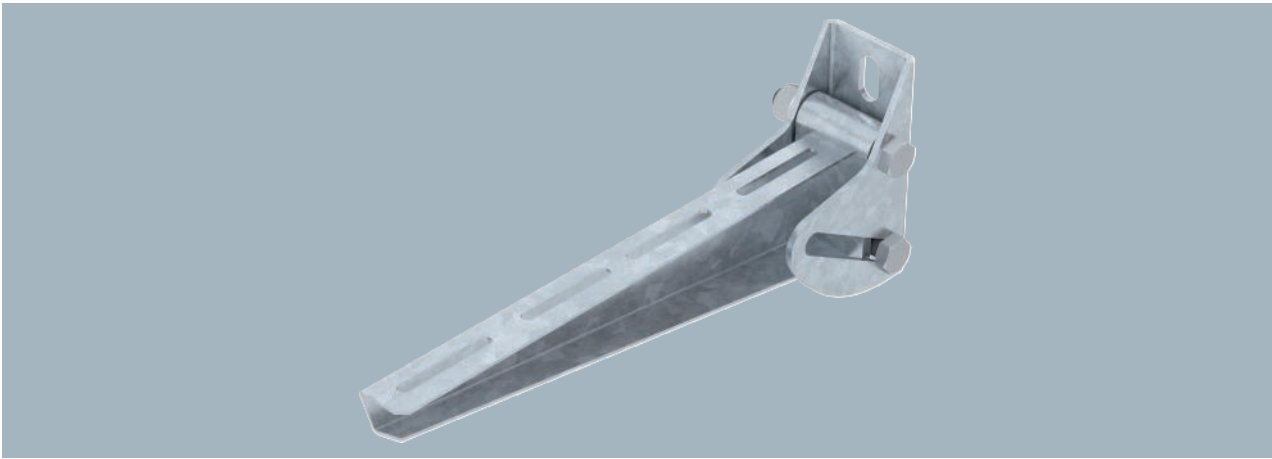
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for AWSS wall and support bracket - wall fastening

Load [kN]										
Bracket width [mm]	210	310	410	510	610	710	810	910	1,010	
Anchor type										
BZ 12-15-35/110	10th	10th	10th	10th	10th	8	7	6.5	6	

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Comply with the installation conditions of the DIBt approval (anchors). The testing of the widths 710–1,010 mm took place at the maximum route width (600 mm) with the load at the end of the bracket.

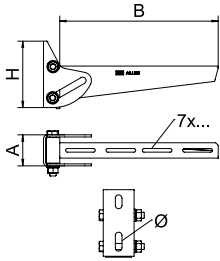
Wall bracket, variable AWW



Usable bracket length dependent on adjustment angle. The largest possible adjustment angle is 30°. Variable wall bracket for fixing to sloping or vaulted walls.

Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AWV 21 FT	210	0.9	1	129.000	6419534
AWV 31 FT	310	0.9	1	149.000	6419550
AWV 41 FT	410	0.9	1	171.000	6419577
AWV 51 FT	510	0.9	1	209.000	6419593
AWV 61 FT	610	0.9	1	239.000	6419615

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AWV 21 FT	210	60	130	13
AWV 31 FT	310	60	130	13
AWV 41 FT	410	60	130	13
AWV 51 FT	510	60	130	13
AWV 61 FT	610	60	130	13

Load

Characteristic anchor load values for AWW wall bracket – wall fastening

Item on test	Force F (SWL)	Width B
AWV 21 FT	0.9 kN	210 mm
AWV 31 FT	0.9 kN	310 mm
AWV 41 FT	0.9 kN	410 mm
AWV 51 FT	0.9 kN	510 mm
AWV 61 FT	0.9 kN	610 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Adapter plate KA-AW 30

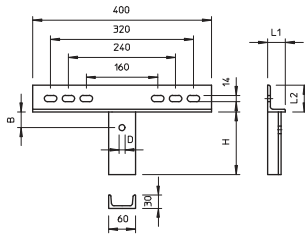
St FT



Type	Pack Piece	Weight kg/100 pc.	Item no.
KA-AW 30 FT	1	247.000	6346715
KA-AW 80 FT	1	424.000	6346731

The bracket types AW 30, AW 55 and AW 80 can be screwed to the adapter plate. Please order the hexagonal bolt for bracket mounting (type SKS 12 x 40 GF) separately. Adapter plate with slots for universal fastening to vertical steel girders and walls.

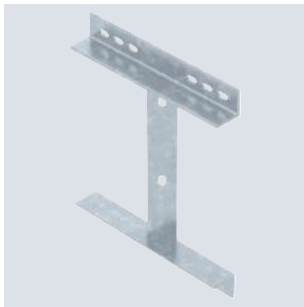
Dimensions



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

Adapter plate 45°

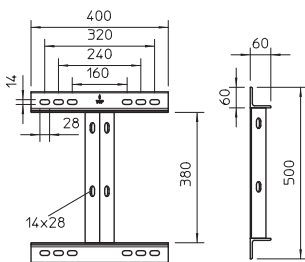
St FT



Type	Pack Piece	Weight kg/100 pc.	Item no.
KA-E 45 FT	1	618.000	6346758

To support cable support systems in building corners and jumps. The hexagonal bolts, type SKS 12 x 40 GF, are used to fasten the brackets to the adapter plate. Please order the appropriate quantity. Adapter plate with slots for universal fastening to vertical steel girders and walls. Wall and support brackets are screwed to the adapter plate at a 45° angle.

Dimensions



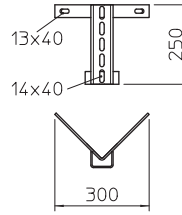
Type	Height mm	Width mm
KA-E 45 FT	500	400

St FT

Corner seat

Type	Pack Piece	Weight kg/100 pc.	Item no.
KA-EA FT	1	201.000	6346763

Corner seat with welded U profile for fastening to 90° external corners. Wall and support brackets are screwed to the U profile.

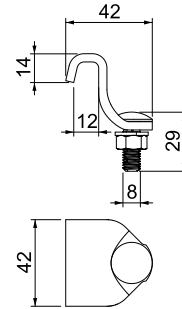


St FT

Clamping lug for AS15 / AS 30

Type	Pack Piece	Weight kg/100 pc.	Item no.
KLAS 15 30 FT	25	7.900	6419015

Individual clamping strap for the fastening of the AS 15 brackets in the width 110-160 mm and AS 30 in the width 110 mm on the IS 8 suspended support.

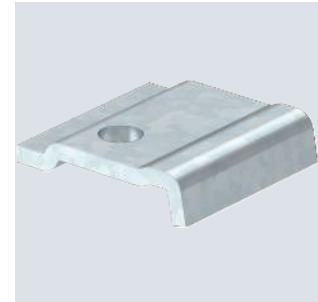
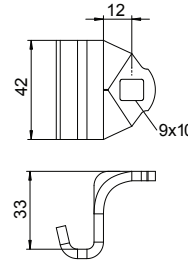


St FT

Clamping lug for AS30 / AS 55

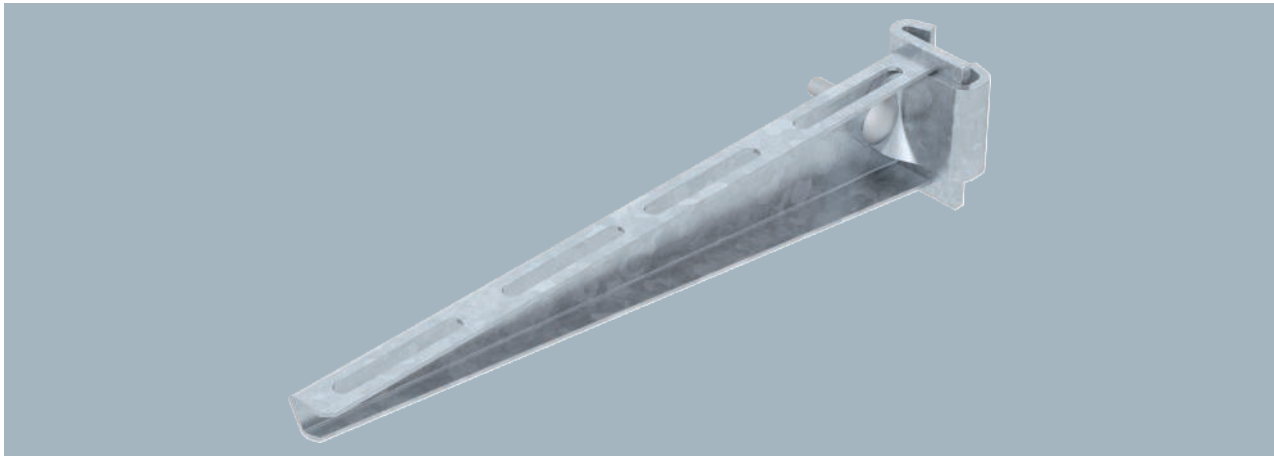
Type	Pack Piece	Weight kg/100 pc.	Item no.
KLAS 30 55 FT	1	8.900	6419007

Individual clamping strap for the fastening of the bracket AS 30 in the width 260 - 710 mm and AS 55 in the width 110 - 210 mm on the suspended support IS 8.



Support bracket AS 15

St FT



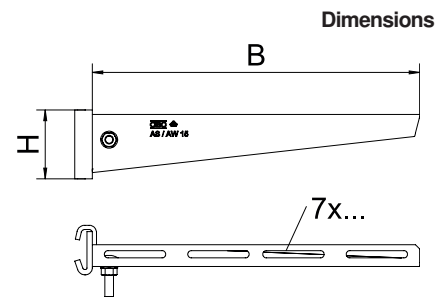
Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AS 15 11 FT	110	1.5	1	27.400	6421326
AS 15 16 FT	160	1.5	1	32.800	6421334
AS 15 21 FT	210	1.5	1	39.400	6421350
AS 15 31 FT	310	1.5	1	46.500	6421385
AS 15 41 FT	410	1.5	1	66.000	6421423
AS 15 51 FT	510	1.5	1	79.600	6421466
AS 15 61 FT	610	1.5	1	87.100	6421490

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

The necessary clamping lug (item no. 6419015), including bolt and nut can be ordered individually for bracket widths 110–160 mm.

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

Type	Dim. B mm	Dim. H mm
AS 15 11 FT	110	50
AS 15 16 FT	160	55
AS 15 21 FT	210	60
AS 15 31 FT	310	65
AS 15 41 FT	410	70
AS 15 51 FT	510	75
AS 15 61 FT	610	80

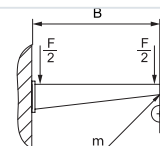


Load diagram, bracket type AS 15

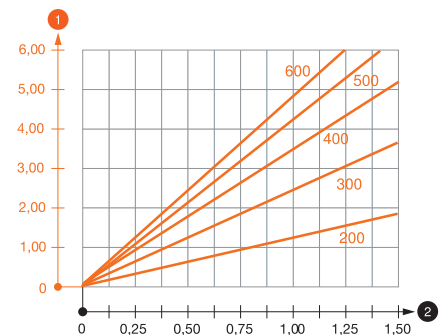
- 1 Bending of the bracket tip at permitted bracket load
 - 2 Permitted bracket load in kN without man load
- Load curve with bracket lengths in mm

Characteristic anchor load values for AS 15 wall and support bracket – wall fastening

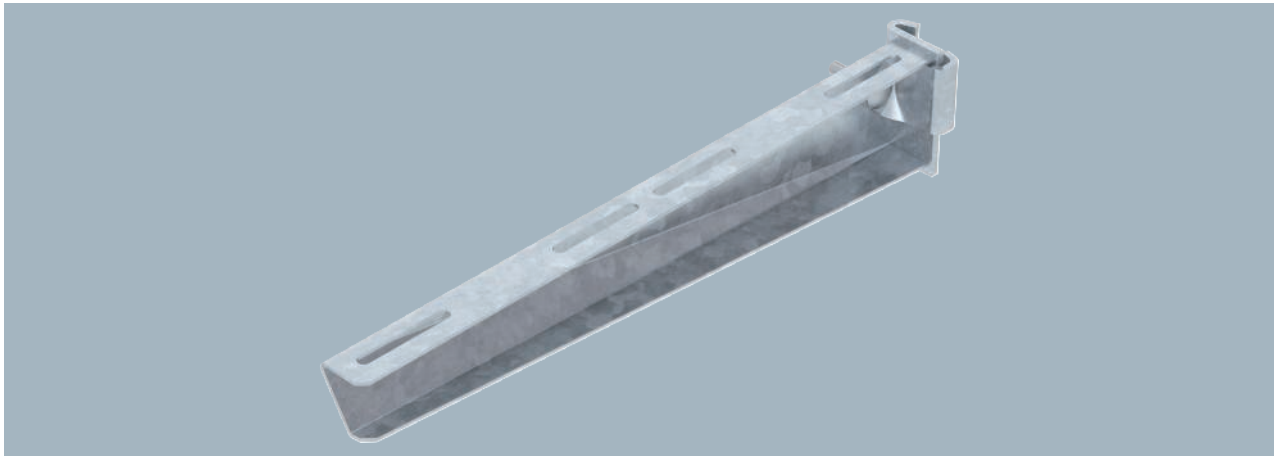
Item on test	Force F (SWL)	Width B
AS 15 11 FT	0.15 kN	110 mm
AS 15 16 FT	0.15 kN	160 mm
AS 15 21 FT	0.15 kN	210 mm
AS 15 31 FT	0.15 kN	310 mm
AS 15 41 FT	0.15 kN	410 mm
AS 15 51 FT	0.15 kN	510 mm
AS 15 61 FT	0.15 kN	610 mm



Max. total load $F = \text{Cable weight} + \text{cable tray} + \text{bracket}$. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Comply with the installation conditions of the DIBt approval (anchors). The testing of the widths 710–1,010 mm took place at the maximum route width (600 mm) with the load at the end of the bracket.



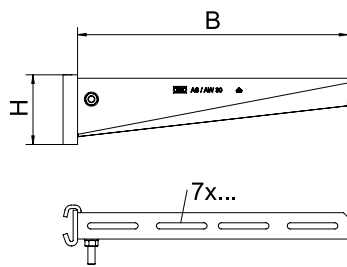
Load



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 item no. 6419007.
Medium-duty support bracket for infinitely adjustable fastening on IS 8 support.

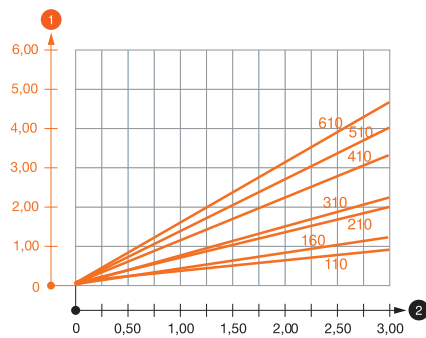
Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AS 30 11 FT	110	3	1	30.000	6419370
AS 30 16 FT	160	3	1	37.000	6419376
AS 30 21 FT	210	3	1	44.000	6419382
AS 30 31 FT	310	3	1	73.000	6419388
AS 30 41 FT	410	3	1	100.000	6419394
AS 30 51 FT	510	3	1	140.000	6419400
AS 30 56 FT	560	3	1	155.000	6419406
AS 30 61 FT	610	3	1	168.000	6419412
AS 30 71 FT	710	3	1	214.000	6419418

Dimensions



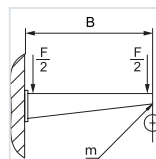
Type	Dim. B mm	Dim. H mm
AS 30 11 FT	110	60
AS 30 16 FT	160	65
AS 30 21 FT	210	70
AS 30 31 FT	310	80
AS 30 41 FT	410	80
AS 30 51 FT	510	90
AS 30 56 FT	560	100
AS 30 61 FT	610	100
AS 30 71 FT	710	100

Load



Load diagram, bracket type AS 30

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

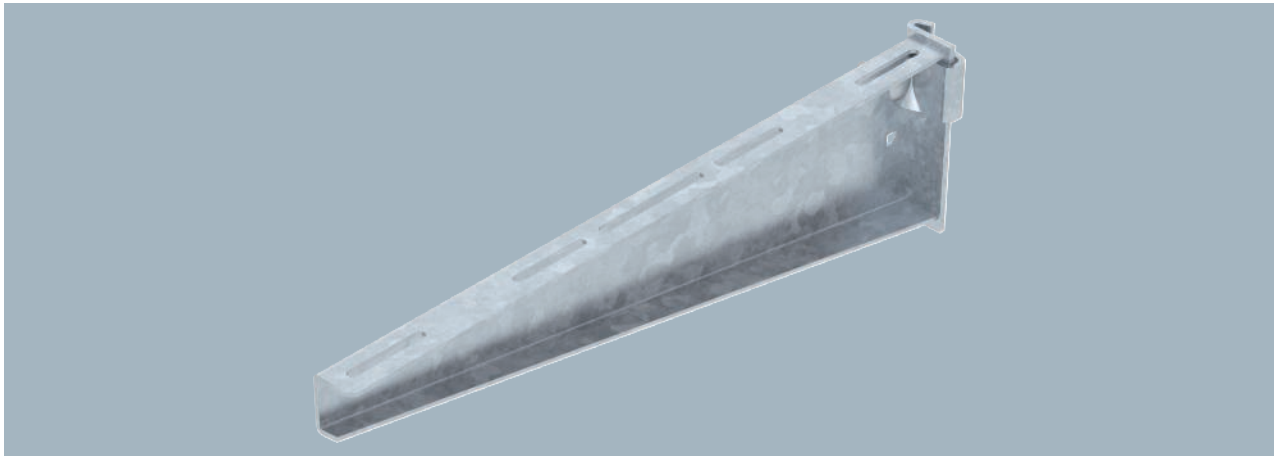


Characteristic anchor load values for AS30 support bracket

Item on test	Force F (SWL)	Width B
AS 30 11 FT	3 kN	110 mm
AS 30 16 FT	3 kN	160 mm
AS 30 21 FT	3 kN	210 mm
AS 30 31 FT	3 kN	310 mm
AS 30 41 FT	3 kN	410 mm
AS 30 51 FT	3 kN	510 mm
AS 30 56 FT	3 kN	560 mm
AS 30 61 FT	3 kN	610 mm
AS 30 71 FT	3 kN	710 mm

Max. total load $F = \text{Cable weight} + \text{cable tray} + \text{bracket}$. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Comply with 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.

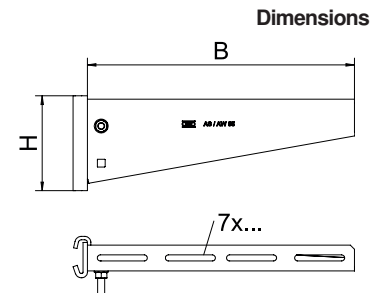
Support bracket AS 55



Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AS 55 21 FT	210	5.5	1	74.200	6419286
AS 55 31 FT	310	5.5	1	133.000	6419292
AS 55 41 FT	410	5.5	1	153.000	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	409.200	6419328
AS 55 91 FT	910	5.5	1	517.000	6419334
AS 55 101 FT	1010	5.5	1	557.600	6419340

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 item no. 6419007.
Heavy-duty support bracket for infinitely adjustable fastening on IS 8 support.

Type	Dim. B mm	Dim. 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

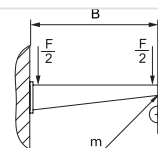


Load diagram, bracket type AS 55

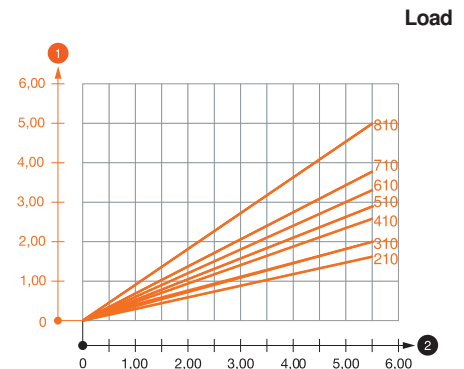
- 1 Bending of the bracket tip at permitted bracket load
 - 2 Permitted bracket load in kN without man load
- Load curve with bracket lengths in mm

Characteristic anchor load values for AS55 support bracket

Item on test	Force F (SWL)	Width B
AS 55 21 FT	0.950 kN	210 mm
AS 55 31 FT	0.950 kN	310 mm
AS 55 41 FT	0.950 kN	410 mm
AS 55 51 FT	0.950 kN	510 mm
AS 55 56 FT	0.950 kN	560 mm
AS 55 61 FT	0.950 kN	610 mm
AS 55 71 FT	0.950 kN	710 mm
AS 55 81 FT	0.950 kN	810 mm
AS 55 91 FT	0.950 kN	910 mm
AS 55 101 FT	0.950 kN	1,010 mm



Max. total load F = Cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Comply with 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.

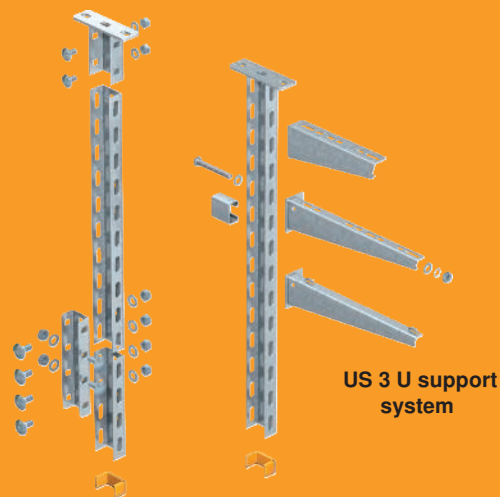




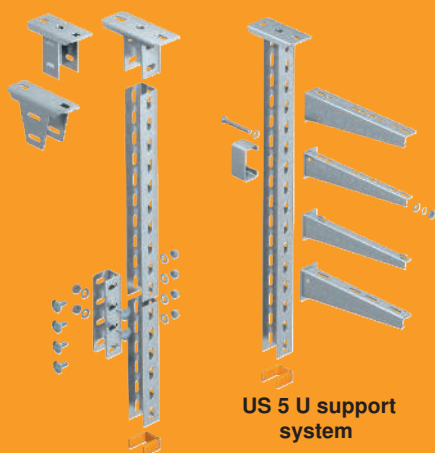


U support family

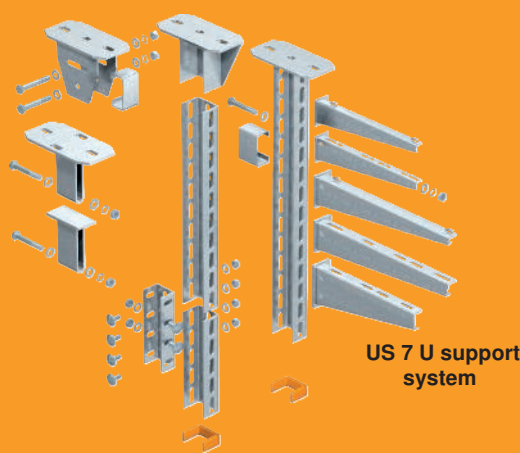
The perfectly matched U support family consists of US 3 (light-duty system), US 5 (medium-duty system) and US 7 (heavy-duty system). The U support range is particularly noted for its versatility. The U supports can be used as ceiling suspension, floor stand-off or as construction profiles.



US 3 U support system



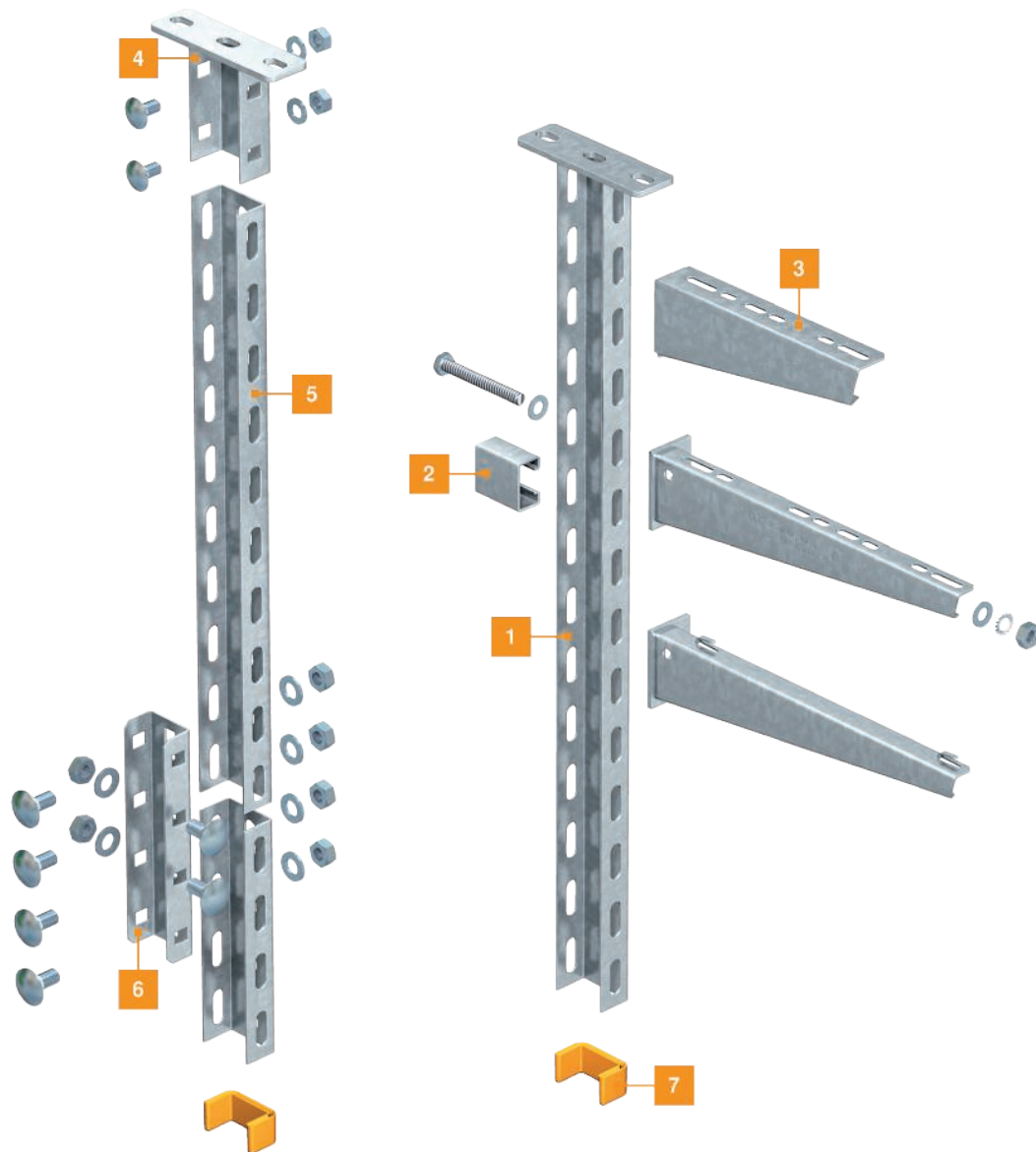
US 5 U support system



US 7 U support system

US 3 U support system

Installation principle



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

Mounting aid

U supports and brackets



Standard mounting of suspended support with wall bracket, single-sided without spacer
Ceiling fastening of a suspended support with single-sided bracket fastening. A spacer is not always required for widths up to and including 300 mm.



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



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



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



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



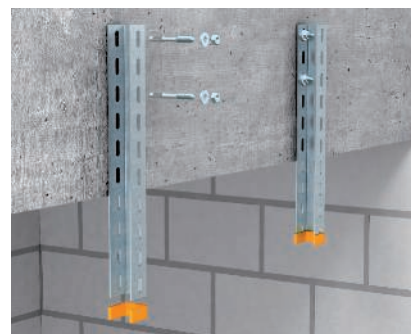
Adapter head plate, asymmetrical
Asymmetrical head plate KA-ASY to increase the load capacity for the combination with suspended supports, type US 7 K and IS 8 K.



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



Traverse
Mounting of U suspended supports US 3 K, US 5 K and US 7 K under the ceiling using bolt ties and a trapeze, consisting of U profile US 3, US 5 or US 7.



U support wall mounting
U supports are mounted on walls or girders using bolt ties, directly through the system perforation in the U support.



U support connection

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



Installation of spacer

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



Variable head plate with US 3 support

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



Variable head plate

Fastening of the variable head plate KU 5 V to sloping concrete ceilings using bolt ties and spacer DSK 47.



Variable head plate

Fastening of the variable head plate KU 7 VQP to sloping concrete ceilings using bolt ties and spacer DSK 45.



45° adapter plate, concrete mounting

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



45° adapter plate, steel clamping

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



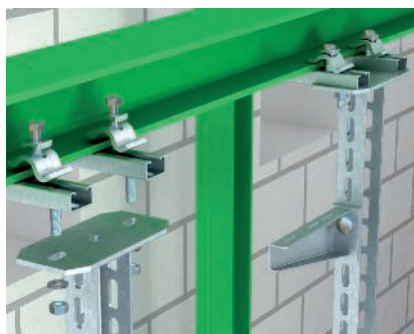
Direct girder clamping

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



Steel clamping with C profile, route in longitudinal direction

U suspended support mounting, clamped to steel girder with C profile, type MS 4022, and TKH-L-25 light-duty chuck jaw. Route along steel girder.



Steel clamping with C profile, route in transverse direction

U suspended support mounting, clamped to steel girder with C profile, type MS 4022, and TKH-L-25 light-duty chuck jaw. Route transverse to steel girder.



Head plate mounting

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



Cantilever beam on steel

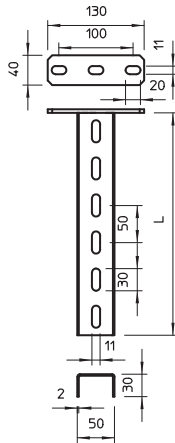
U supports can be used as cantilever beams on steel girders with chuck jaws of type TKS-L-25. Use DSK spacers for safe functioning.

US 3 support



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.



Type	Length mm	Material thickness mm	Tensile load		Pack Piece	Weight kg/100 pc.	Item no.
			kN	BS			
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

Load

Testing of the bending torque on the ceiling plate

Item on test	US 3 K 80
Deformation measuring point m	
Length L	800 mm
Force F	0.462 kN
Bending torque M1 (SWL)	370 Nm

According to IEC 61537, Chapter 10.8.2.1

Testing of the tensile strength

Item on test	US 3 K 80
Deformation measuring point m	
Force F (SWL)	20 kN

According to IEC 61537, Chapter 10.8.2.2

Testing of the bending torque on the support with bracket

Item on test	US 3 K 80	US 3 K 120
	AW 15 31	AW 15 31
Deformation measuring point m		
A1 lever arm	310 mm	310 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	0.947 kN	0.790 kN
Bending torque M2 (SWL)	180 Nm	150 Nm

Testing of the bending torque on the support with bracket with spacer

Item on test	US 3 K 80	US 3 K 120
	AW 15 61	AW 15 61
Deformation measuring point m		
A1 lever arm	610 mm	610 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	0.850 kN	0.850 kN
Bending torque M2 (SWL)	290 Nm	290 Nm

According to IEC 61537, Chapter 10.8.2.3, without spacer

A2 2B

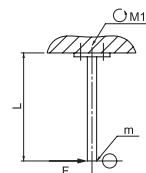
Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
US 3 K 20 A2	200	2	5	1	44.000	6342401
US 3 K 30 A2	300	2	5	1	58.000	6342403
US 3 K 40 A2	400	2	5	1	71.000	6342405
US 3 K 50 A2	500	2	5	1	84.000	6342407
US 3 K 60 A2	600	2	5	1	97.000	6342409
US 3 K 70 A2	700	2	5	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

Load

Testing of the bending torque on the ceiling plate

Item on test	US 3 K 80
Deformation measuring point m	
Length L	800 mm
Force F	0.462 kN
Bending torque M1 (SWL)	370 Nm

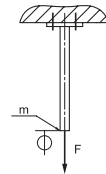
According to IEC 61537, Chapter 10.8.2.1



Testing of the tensile strength

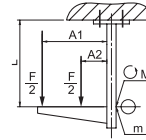
Item on test	US 3 K 80
Deformation measuring point m	
Force F (SWL)	20 kN

According to IEC 61537, Chapter 10.8.2.2



Testing of the bending torque on the support with bracket

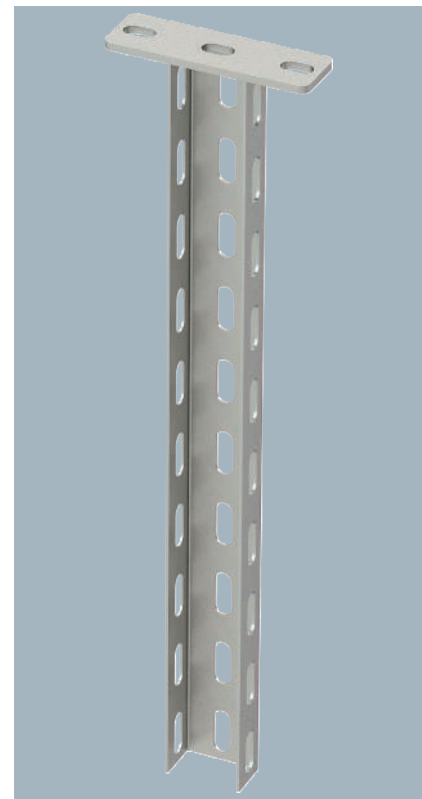
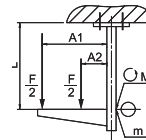
Item on test	US 3 K 80	US 3 K 120
	AW 15 31	AW 15 31
Deformation measuring point m		
A1 lever arm	310 mm	310 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	0.947 kN	0.790 kN
Bending torque M2 (SWL)	180 Nm	150 Nm



Testing of the bending torque on the support with bracket with spacer

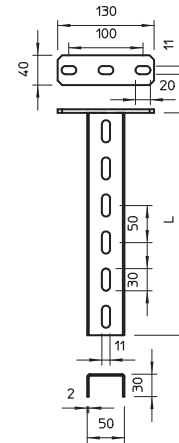
Item on test	US 3 K 80	US 3 K 120
	AW 15 61	AW 15 61
Deformation measuring point m		
A1 lever arm	610 mm	610 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	0.850 kN	0.850 kN
Bending torque M2 (SWL)	290 Nm	290 Nm

According to IEC 61537, Chapter 10.8.2.3, without spacer

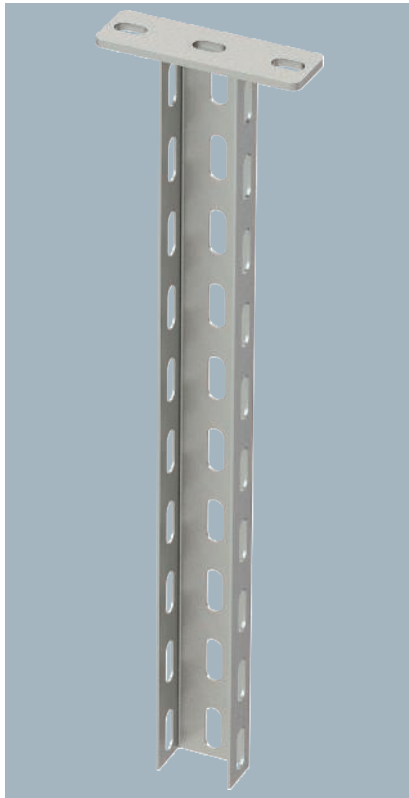


For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

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

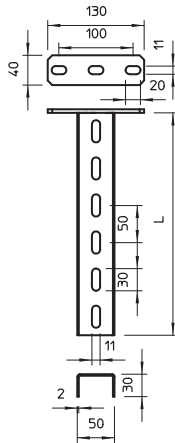


US 3 support



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.



Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
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	178.000	6342398

Load

Testing of the bending torque on the ceiling plate

Item on test	US 3 K 80
Deformation measuring point m	
Length L	800 mm
Force F	0.462 kN
Bending torque M1 (SWL)	370 Nm

According to IEC 61537, Chapter 10.8.2.1

Testing of the tensile strength

Item on test	US 3 K 80
Deformation measuring point m	
Force F (SWL)	20 kN

According to IEC 61537, Chapter 10.8.2.2

Testing of the bending torque on the support with bracket

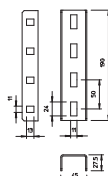
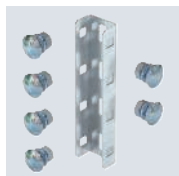
Item on test	US 3 K 80	US 3 K 120
	AW 15 31	AW 15 31
Deformation measuring point m		
A1 lever arm	310 mm	310 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	0.947 kN	0.790 kN
Bending torque M2 (SWL)	180 Nm	150 Nm

Testing of the bending torque on the support with bracket with spacer

Item on test	US 3 K 80	US 3 K 120
	AW 15 61	AW 15 61
Deformation measuring point m		
A1 lever arm	610 mm	610 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	0.850 kN	0.850 kN
Bending torque M2 (SWL)	290 Nm	290 Nm

According to IEC 61537, Chapter 10.8.2.3, without spacer

VUS 3 U support connector



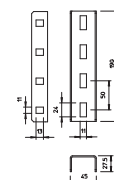
Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 3 FT	10	48.300	6018513

U support connector to connect US 3 supports.
Including appropriate fastening material.

A2 A4 2B

VUS 3 U support connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 3 A2	1	48.200	6018517
VUS 3 A4	1	48.200	6018520

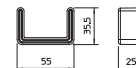


U support connector to connect US 3 supports.
Including appropriate fastening material.

PE

Protective cap

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
US 3 KS OR	Pastel orange	20	1.068	6338458

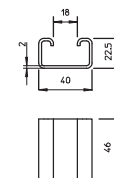


Protective cap to cover the ends of US 3 supports.

St FT

DSK 25 spacer

Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 25 FT	20	7.500	6416446

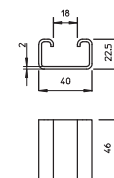


Spacer for use in US 3 supports.

A2 A4 2B

DSK 25 spacer

Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 25 A2	10	7.500	6416448
DSK 25 A4	10	7.500	6416450

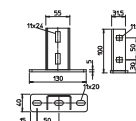


Spacer for use in US 3 supports.

St FT

Head plate

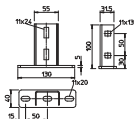
Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 3 FT	1	42.300	6348874



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.

A2 A4 2B

Head plate

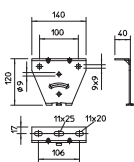


Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 3 A2	1	41.000	6348876
KU 3 A4	1	40.700	6348877

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

St FS FT

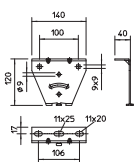


Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 3 V FS	1	40.000	6348881
KU 3 V FT	1	41.300	6348883

The variable head plate can be mounted to fixed lengths of the U support, type US 3, or profile rails, type AML3518/AMS3518 and CML3518/CMS3518. The maximum angle adjustment is 20° on one side.
Variable head plate for installation on US 3 supports and profile rails, type AML3518/AMS3518 and CML3518/CMS3518.

Head plate, variable

A2 2B

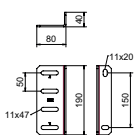


Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 3 V A2	1	40.000	6348884

The variable head plate can be mounted to fixed lengths of the U support, type US 3, or profile rails, type AML3518/AMS3518 and CML3518/CMS3518.
Head plate for the installation on US 3 supports and profile rails, type AML3518/AMS3518 and CML3518/CMS3518.

Fastening bracket for US 3/US 5 support

St FT

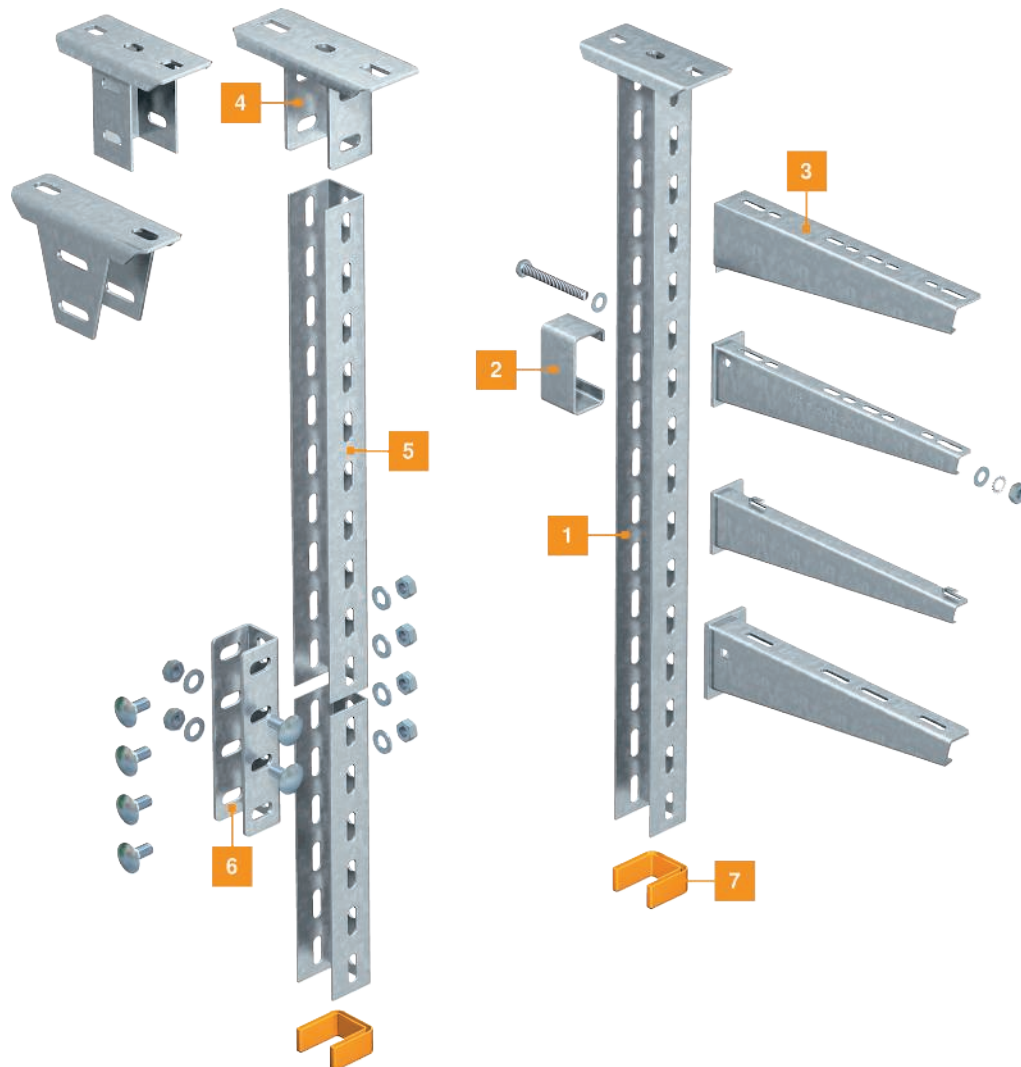


Type	Pack Piece	Weight kg/100 pc.	Item no.
BW US 3/5 FT	5	71.100	6019534

Suitable for U support, type US 3 and US 5.
Fastening bracket for the creation of individual support structures with U supports.

US 5 U support system

Installation principle



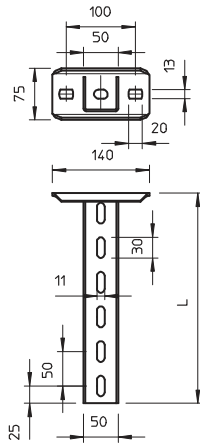
- | | |
|---|---------------------------|
| 1 | US 5 suspended support |
| 2 | Spacer |
| 3 | Wall and support brackets |
| 4 | Head plate |
| 5 | US 5 support |
| 6 | U support connector |
| 7 | End cap |

US 5 support



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.



Type	Length mm	Material thickness mm	Tensile load		Pack Piece	Weight kg/100 pc.	Item no.
			kN	BS			
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
US 5 K 150 FT	1500	2.5	10	🔥	1	397.100	6341640

Load

Testing of the bending torque on the ceiling plate		
Item on test	US 5 K 80	
Deformation measuring point m		
Length L	800 mm	
Force F	0.950 kN	
Bending torque M1 (SWL)	760 Nm	
According to IEC 61537, Chapter 10.8.2.1		
Testing of the tensile strength		
Item on test	US 5 K 80	
Deformation measuring point m		
Force F (SWL)	26 kN	
According to IEC 61537, Chapter 10.8.2.2		
Testing of the bending torque on the support with bracket		
Item on test	US 5 K 80	US 5 K 120
Deformation measuring point m	AW 30 31 FT	AW 30 31 FT
A1 lever arm	310 mm	310 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	1.253 kN	1.358 kN
Bending torque M2 (SWL)	240 Nm	260 Nm
Testing of the bending torque on the support with bracket with spacer		
Item on test	US 5 K 80	US 5 K 120
Deformation measuring point m	AW 30 71 FT	AW 30 71 FT
A1 lever arm	710 mm	710 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	1.272 kN	1.094 kN
Bending torque M2 (SWL)	500 Nm	430 Nm
According to IEC 61537, Chapter 10.8.2.3		

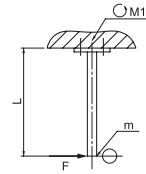
Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
US 5 K 20 A2	200	2.5	10	1	100.000	6341358
US 5 K 30 A2	300	2.5	10	1	125.000	6341362
US 5 K 40 A2	400	2.5	10	1	150.000	6341366
US 5 K 50 A2	500	2.5	10	1	175.000	6341370
US 5 K 60 A2	600	2.5	10	1	200.000	6341374
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

Load

Testing of the bending torque on the ceiling plate

Item on test	US 5 K 80
Deformation measuring point m	
Length L	800 mm
Force F	0.950 kN
Bending torque M1 (SWL)	760 Nm

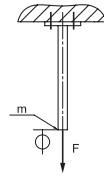
According to IEC 61537, Chapter 10.8.2.1



Testing of the tensile strength

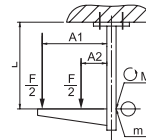
Item on test	US 5 K 80
Deformation measuring point m	
Force F (SWL)	26 kN

According to IEC 61537, Chapter 10.8.2.2



Testing of the bending torque on the support with bracket

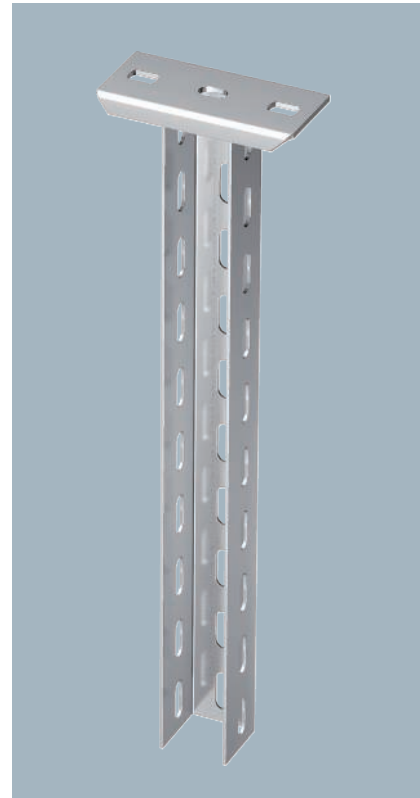
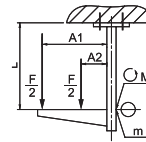
Item on test	US 5 K 80	US 5 K 120
Deformation measuring point m	AW 30 31	AW 30 31
A1 lever arm	310 mm	310 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	1.253 kN	1.358 kN
Bending torque M2 (SWL)	240 Nm	260 Nm



Testing of the bending torque on the support with bracket with spacer

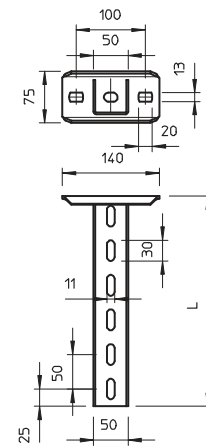
Item on test	US 5 K 80	US 5 K 120
Deformation measuring point m	AW 30 71	AW 30 71
A1 lever arm	710 mm	710 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	1.272 kN	0.950 kN
Bending torque M2 (SWL)	500 Nm	430 Nm

According to IEC 61537, Chapter 10.8.2.3

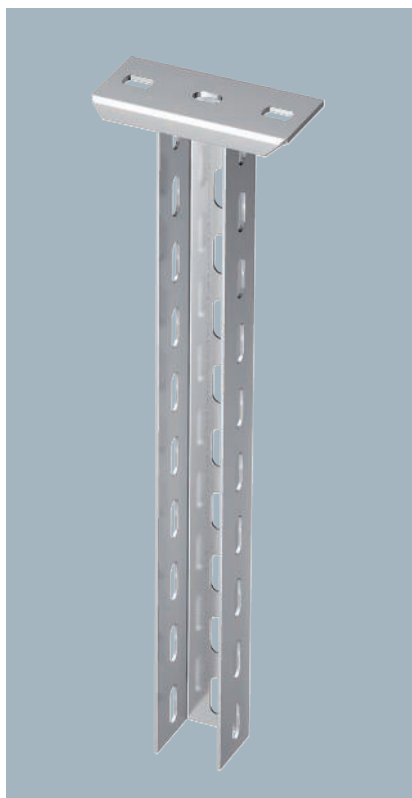


For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.

Suspended support (U profile) with welded head plate.

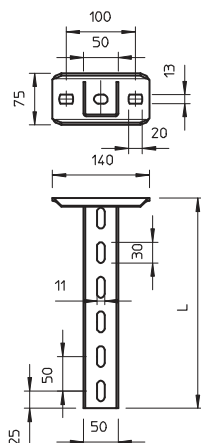


US 5 support



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.

Suspended support (U profile) with welded head plate.



Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
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	330.000	6341245
US 5 K 120 A4	1200	2.5	10	1	360.000	6341249

Load

Diagram	Testing of the bending torque on the ceiling plate	Testing of the tensile strength	Testing of the bending torque on the support with bracket	Testing of the bending torque on the support with bracket with spacer																																																																		
	<table border="1"> <tr> <td>Item on test</td> <td colspan="2">US 5 K 80</td> </tr> <tr> <td>Deformation measuring point m</td> <td colspan="2"></td> </tr> <tr> <td>Length L</td> <td colspan="2">800 mm</td> </tr> <tr> <td>Force F</td> <td colspan="2">0.950 kN</td> </tr> <tr> <td>Bending torque M1 (SWL)</td> <td colspan="2">760 Nm</td> </tr> </table> <p>According to IEC 61537, Chapter 10.8.2.1</p>	Item on test	US 5 K 80		Deformation measuring point m			Length L	800 mm		Force F	0.950 kN		Bending torque M1 (SWL)	760 Nm		<table border="1"> <tr> <td>Item on test</td> <td colspan="2">US 5 K 80</td> </tr> <tr> <td>Deformation measuring point m</td> <td colspan="2"></td> </tr> <tr> <td>Force F (SWL)</td> <td colspan="2">26 kN</td> </tr> </table> <p>According to IEC 61537, Chapter 10.8.2.2</p>	Item on test	US 5 K 80		Deformation measuring point m			Force F (SWL)	26 kN		<table border="1"> <tr> <td>Item on test</td> <td>US 5 K 80</td> <td>US 5 K 120</td> </tr> <tr> <td>Deformation measuring point m</td> <td>AW 30 31</td> <td>AW 30 31</td> </tr> <tr> <td>A1 lever arm</td> <td>310 mm</td> <td>310 mm</td> </tr> <tr> <td>A2 lever arm</td> <td>10 mm</td> <td>10 mm</td> </tr> <tr> <td>Length L</td> <td>500 mm</td> <td>1,000 mm</td> </tr> <tr> <td>Force F</td> <td>1.253 kN</td> <td>1.358 kN</td> </tr> <tr> <td>Bending torque M2 (SWL)</td> <td>240 Nm</td> <td>260 Nm</td> </tr> </table>	Item on test	US 5 K 80	US 5 K 120	Deformation measuring point m	AW 30 31	AW 30 31	A1 lever arm	310 mm	310 mm	A2 lever arm	10 mm	10 mm	Length L	500 mm	1,000 mm	Force F	1.253 kN	1.358 kN	Bending torque M2 (SWL)	240 Nm	260 Nm	<table border="1"> <tr> <td>Item on test</td> <td>US 5 K 80</td> <td>US 5 K 120</td> </tr> <tr> <td>Deformation measuring point m</td> <td>AW 30 71</td> <td>AW 30 71</td> </tr> <tr> <td>A1 lever arm</td> <td>710 mm</td> <td>710 mm</td> </tr> <tr> <td>A2 lever arm</td> <td>10 mm</td> <td>10 mm</td> </tr> <tr> <td>Length L</td> <td>500 mm</td> <td>1,000 mm</td> </tr> <tr> <td>Force F</td> <td>1.272 kN</td> <td>0.950 kN</td> </tr> <tr> <td>Bending torque M2 (SWL)</td> <td>500 Nm</td> <td>430 Nm</td> </tr> </table>	Item on test	US 5 K 80	US 5 K 120	Deformation measuring point m	AW 30 71	AW 30 71	A1 lever arm	710 mm	710 mm	A2 lever arm	10 mm	10 mm	Length L	500 mm	1,000 mm	Force F	1.272 kN	0.950 kN	Bending torque M2 (SWL)	500 Nm	430 Nm
Item on test	US 5 K 80																																																																					
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Force F	1.272 kN	0.950 kN																																																																				
Bending torque M2 (SWL)	500 Nm	430 Nm																																																																				

St FT SO

US 5 suspended support FT SOMY

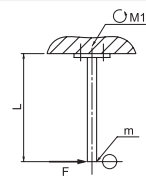
Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
US 5 K 30 FT SO	300	2.5	10	1	106.000	7193509
US 5 K 50 FT SO	500	2.5	10	1	161.000	7193511
US 5 K 60 FT SO	600	2.5	10	1	189.000	7193516
US 5 K 100 FT SO	1000	2.5	10	1	286.000	7193524
US 5 K 120 FT SO	1200	2.5	10	1	344.000	7193527

Load

Testing of the bending torque on the ceiling plate

Item on test	US 5 K 80
Deformation measuring point m	
Length L	800 mm
Force F	0.950 kN
Bending torque M1 (SWL)	760 Nm

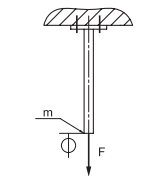
According to IEC 61537, Chapter 10.8.2.1



Testing of the tensile strength

Item on test	US 5 K 80
Deformation measuring point m	
Force F (SWL)	26 kN

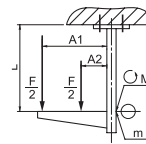
According to IEC 61537, Chapter 10.8.2.2



Testing of the bending torque on the support with bracket

Item on test	US 5 K 80	US 5 K 120
	AW 30 71 FT	AW 30 71 FT
Deformation measuring point m		
A1 lever arm	710 mm	710 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	0.789 kN	0.711 kN
Bending torque M2 (SWL)	300 Nm	270 Nm

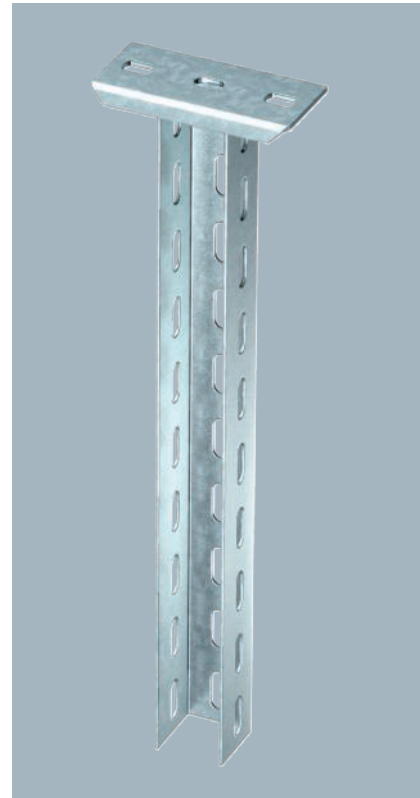
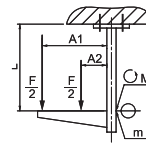
According to IEC 61537, Chapter 10.8.2.3, without spacer



Testing of the bending torque on the support with bracket with spacer

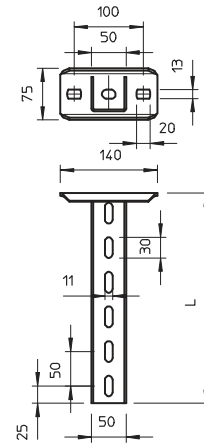
Item on test	US 5 K 80	US 5 K 120
	AW 30 71 FT	AW 30 71 FT
Deformation measuring point m		
A1 lever arm	710 mm	710 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	1.272 kN	0.950 kN
Bending torque M2 (SWL)	500 Nm	430 Nm

According to IEC 61537, Chapter 10.8.2.3



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.

Suspended support (U profile) with welded head plate.

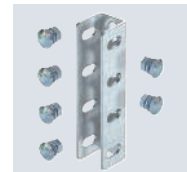
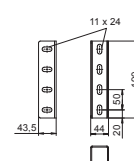


St FT

VUS 5 U support connector

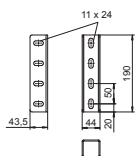
Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 5 FT	10	61.000	6018505

U support connector to connect US 5 supports.
Including appropriate fastening material.



U support connector VUS 5

A4 2B

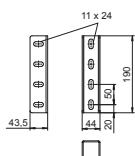


Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 5 A4	1	64.800	6018509

U support connector to connect US 5 supports.
Including appropriate fastening material.

U support connector VUS 5

A2 2B

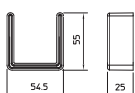


Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 5 A2	1	64.800	6018512

U support connector to connect US 5 supports.
Including appropriate fastening material.

Protective cap

PE

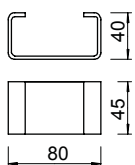


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
US 5 KS OR	Pastel orange	20	1.300	6338462

Protective cap to cover the ends of US 5 supports.

Spacer DSK 45

St FT

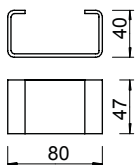


Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 45 FT	20	18.000	6416500

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 US 5 support and in the head plate, type KU 7 VQP.

Spacer DSK 47

St FT



Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 47 FT	20	19.000	6416504

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.

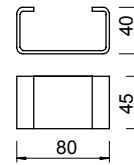
A2 A4 2B

Spacer DSK 45

Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 45 A2	10	14.600	6416489
DSK 45 A4	10	14.600	6416462

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 US 5 supports.



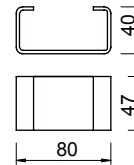
A2 A4 2B

Spacer DSK 47

Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 47 A2	10	15.600	6416507
DSK 47 A4	10	15.600	6416511

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.



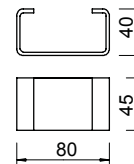
St FT SO

DSK 45 spacer FT SOMY

Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 45 FT SO	1	19.000	7192503

For static reasons, the spacer is always used to prevent the support from deforming when the hexagonal bolts are used to fasten the bracket or head plate.

Spacer for use in U 5 supports.



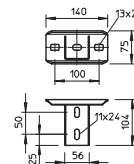
St FT

Head plate US 5

Type	Pack Piece	Weight kg/100 pc.	Item no.
KUS 5 FT	1	61.900	6348904

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

Head plate for installation in US 5 support.



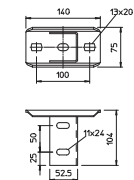
St FT

Head plate US 5 NOK

Type	Pack Piece	Weight kg/100 pc.	Item no.
KUS 5 NOK FT	1	75.000	6348939

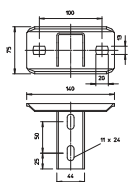
Head plate with U support mounting rotated 90°.

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



Head plate US 5 NOK

A2 2B

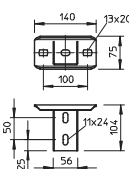


Type	Pack Piece	Weight kg/100 pc.	Item no.
KUS 5 NOK A2	1	61.000	6348947

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

Head plate US 5 FT SOMY

St FT SO

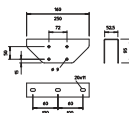
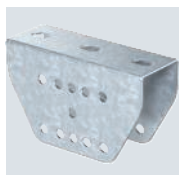


Type	Pack Piece	Weight kg/100 pc.	Item no.
KUS 5 FT SO	1	63.000	7193547

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

Head plate KU 5 16

St FS

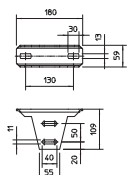


Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 5 16 FS	10	50.300	6344380

Head plate for the mounting on supports type USL and USM.

KU 5 head plate, variable

St FT

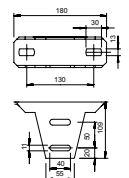


Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 5 V FT	1	82.000	6348920

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.

KU 5 head plate, variable

A2 A4 2B



Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 5 V A2	1	81.000	6348925
KU 5 V A4	1	81.000	6348927

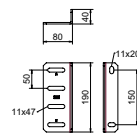
The spacer, type DSK 47, is used to install the head plate.
Variable head plate for installation on US 5 support.

St FT

Fastening bracket for US 3/US 5 support

Type	Pack Piece	Weight kg/100 pc.	Item no.
BW US 3/5 FT	5	71.100	6019534

Suitable for U support, type US 3 and US 5.
Fastening bracket for the creation of individual support structures with U supports.

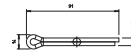


St G

Fastening splint G 8X71 G

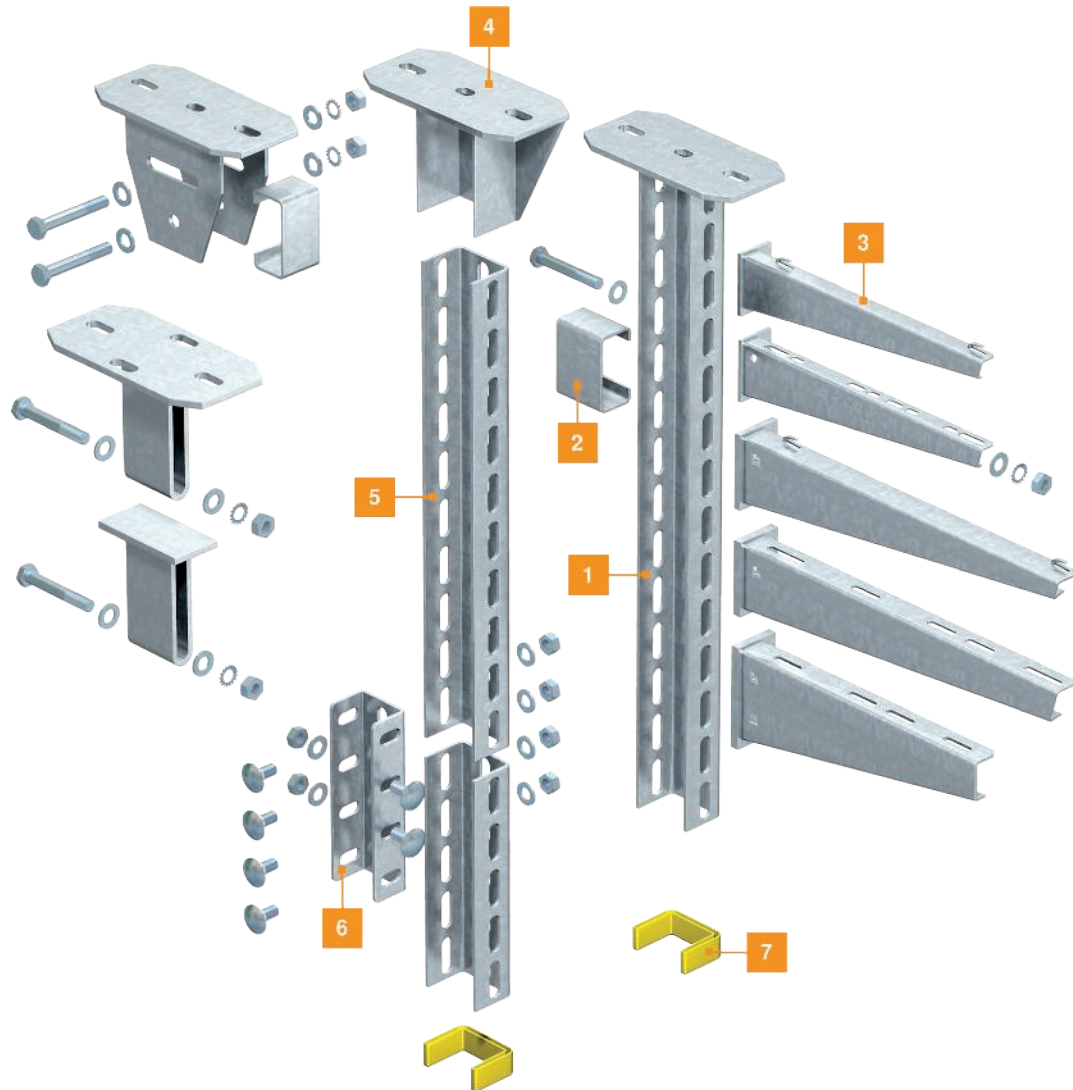
Type	Length Fit		Pack Piece	Weight kg/100 pc.	Item no.
	mm	mm			
G 8X71 G	91	8	25	2.800	6344569

Fastening splint for screwless fastening of head plates and bracket.



US 7 U support system

Installation principle



- | | |
|---|---------------------------|
| 1 | US 7 suspended support |
| 2 | Spacer |
| 3 | Wall and support brackets |
| 4 | Head plate |
| 5 | US 7 support |
| 6 | U support connector |
| 7 | Protective cap |

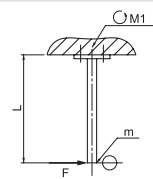
Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
US 7 K 20 A2	200	4	11	1	173.000	6338607
US 7 K 30 A2	300	4	11	1	213.000	6338615
US 7 K 40 A2	400	4	11	1	256.000	6338623
US 7 K 50 A2	500	4	11	1	296.000	6338631
US 7 K 60 A2	600	4	11	1	337.000	6338658
US 7 K 70 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

Load

Testing of the bending torque on the ceiling plate

Item on test	US 7 K 80
Deformation measuring point m	
Length L	800 mm
Force F	2.250 kN
Bending torque M1 (SWL)	1,800 Nm

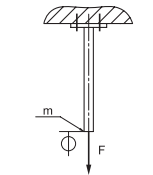
According to IEC 61537, Chapter 10.8.2.1



Testing of the tensile strength

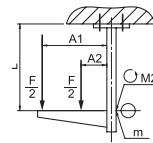
Item on test	US 7 K 80
Deformation measuring point m	
Force F (SWL)	45 kN

According to IEC 61537, Chapter 10.8.2.2



Testing of the bending torque on the support with bracket

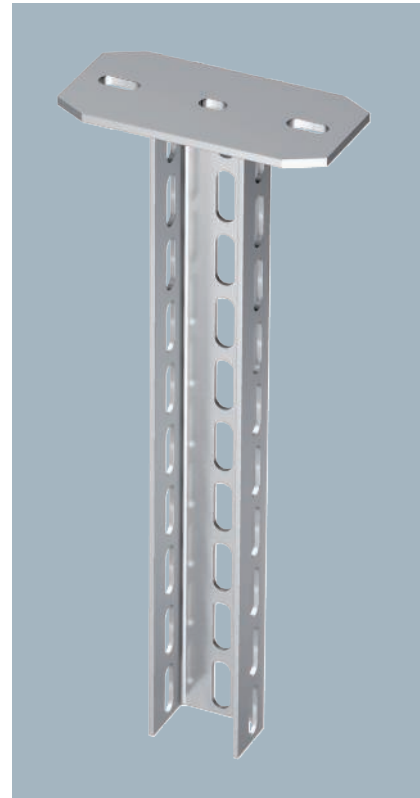
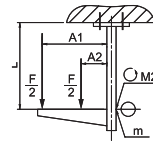
Item on test	US 7 K 80	US 7 K 120	US 7 K 170
	AW 30 31	AW 30 31	AW 30 31
Deformation measuring point m			
A1 lever arm	310 mm	310 mm	310 mm
A2 lever arm	10 mm	10 mm	10 mm
Length L	500 mm	1,000 mm	1,500 mm
Force F	2.169 kN	2.169 kN	1.985 kN
Bending torque M2 (SWL)	437 Nm	437 Nm	400 Nm



Testing of the bending torque on the support with bracket with spacer

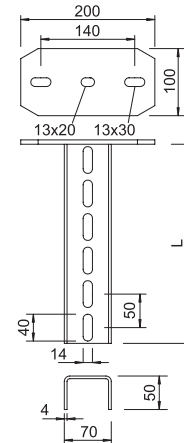
Item on test	US 7 K 80	US 7 K 120	US 7 K 170
	AW 55 81	AW 55 81	AW 55 81
Deformation measuring point m			
A1 lever arm	810 mm	810 mm	810 mm
A2 lever arm	10 mm	10 mm	10 mm
Length L	500 mm	1,000 mm	1,500 mm
Force F	3.348 kN	2.659 kN	2.079 kN
Bending torque M2 (SWL)	1,530 Nm	1,530 Nm	1,530 Nm

According to IEC 61537, Chapter 10.8.2.3

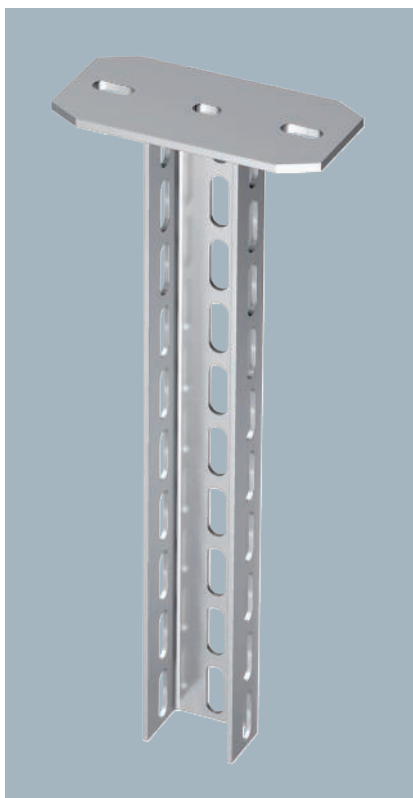


For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

Suspended support (U profile) with welded head plate.

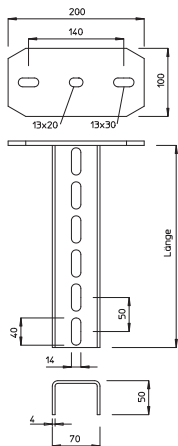


US 7 support



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) with welded head plate.



Type	Length mm	Material thickness mm	Tensile load kN	Pack	Weight	Item no.
				Piece	kg/100 pc.	
US 7 K 100 A4	1000	4	11	1	500.000	6338872
US 7 K 200 A4	2000	4	11	1	905.000	6338881

Load

Testing of the bending torque on the ceiling plate			
Item on test	US 7 K 80		
Deformation measuring point m			
Length L	800 mm		
Force F	2.250 kN		
Bending torque M1 (SWL)	1,800 Nm		
According to IEC 61537, Chapter 10.8.2.1			
Testing of the tensile strength			
Item on test	US 7 K 80		
Deformation measuring point m			
Force F (SWL)	45 kN		
According to IEC 61537, Chapter 10.8.2.2			
Testing of the bending torque on the support with bracket			
Item on test	US 7 K 80	US 7 K 120	US 7 K 170
	AW 30 31	AW 30 31	AW 30 31
Deformation measuring point m			
A1 lever arm	310 mm	310 mm	310 mm
A2 lever arm	10 mm	10 mm	10 mm
Length L	500 mm	1,000 mm	1,500 mm
Force F	2,169 kN	2,169 kN	1,985 kN
Bending torque M2 (SWL)	437 Nm	437 Nm	400 Nm
Testing of the bending torque on the support with bracket with spacer			
Item on test	US 7 K 80	US 7 K 120	US 7 K 170
	AW 55 81	AW 55 81	AW 55 81
Deformation measuring point m			
A1 lever arm	810 mm	810 mm	810 mm
A2 lever arm	10 mm	10 mm	10 mm
Length L	500 mm	1,000 mm	1,500 mm
Force F	3,348 kN	2,659 kN	2,079 kN
Bending torque M2 (SWL)	1,530 Nm	1,530 Nm	1,530 Nm
According to IEC 61537, Chapter 10.8.2.3			

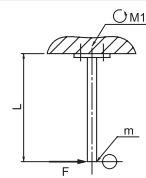
Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
US 7 K 30 A4	300	4	11	1	216.000	6338858
US 7 K 40 A4	400	4	11	1	256.000	6338860
US 7 K 60 A4	600	4	11	1	337.000	6338864
US 7 K 80 A4	800	4	11	1	417.000	6338868
US 7 K 120 A4	1200	4	11	1	578.000	6338876

Load

Testing of the bending torque on the ceiling plate

Item on test	US 7 K 80
Deformation measuring point m	
Length L	800 mm
Force F	2.250 kN
Bending torque M1 (SWL)	1,800 Nm

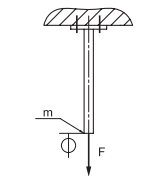
According to IEC 61537, Chapter 10.8.2.1



Testing of the tensile strength

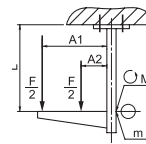
Item on test	US 7 K 80
Deformation measuring point m	
Force F (SWL)	45 kN

According to IEC 61537, Chapter 10.8.2.2



Testing of the bending torque on the support with bracket

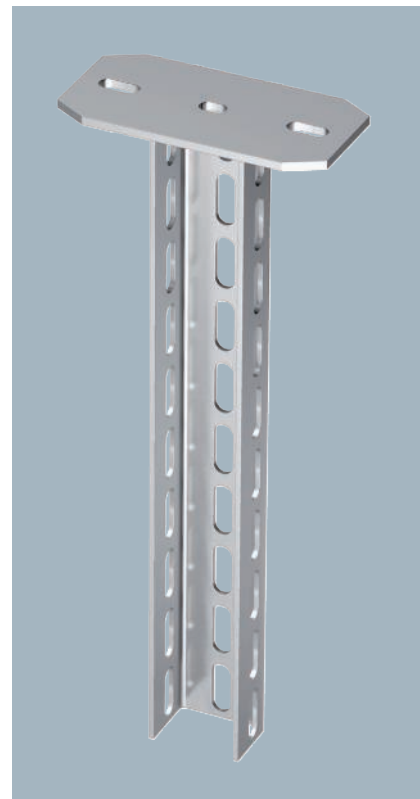
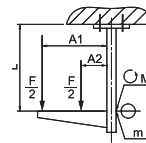
Item on test	US 7 K 80 AW 30 31	US 7 K 120 AW 30 31	US 7 K 170 AW 30 31
Deformation measuring point m			
A1 lever arm	310 mm	310 mm	310 mm
A2 lever arm	10 mm	10 mm	10 mm
Length L	500 mm	1,000 mm	1,500 mm
Force F	2.169 kN	2.169 kN	1.985 kN
Bending torque M2 (SWL)	437 Nm	437 Nm	400 Nm



Testing of the bending torque on the support with bracket with spacer

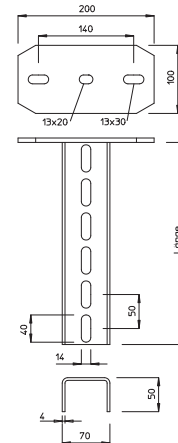
Item on test	US 7 K 80 AW 55 81	US 7 K 120 AW 55 81	US 7 K 170 AW 55 81
Deformation measuring point m			
A1 lever arm	810 mm	810 mm	810 mm
A2 lever arm	10 mm	10 mm	10 mm
Length L	500 mm	1,000 mm	1,500 mm
Force F	3.348 kN	2.659 kN	2.079 kN
Bending torque M2 (SWL)	1,530 Nm	1,530 Nm	1,530 Nm

According to IEC 61537, Chapter 10.8.2.3



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) with welded head plate.



US 7 suspended support FT SOMY

St FT SO



Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
US 7 K 100 FT SO	1000	4	11	1	518.000	7193661

Load

Testing of the bending torque on the ceiling plate		
Item on test	US 7 K 80	
Deformation measuring point m		
Length L	800 mm	
Force F	2.250 kN	
Bending torque M1 (SWL)	1.800 Nm	

According to IEC 61537, Chapter 10.8.2.1

Testing of the tensile strength	
Item on test	US 7 K 80
Deformation measuring point m	
Force F (SWL)	45 kN

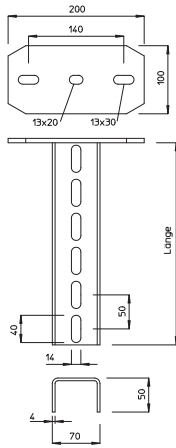
According to IEC 61537, Chapter 10.8.2.2

Testing of the bending torque on the support with bracket		
Item on test	US 7 K 80 FT	AW 30 71 FT
Deformation measuring point m	AW 30 31 FT	AW 30 71 FT
A1 lever arm	310 mm	710 mm
Lever arm A2	10 mm	10 mm
Length L	500 mm	500 mm
Force F	0.950 kN	1.7 kN
Bending torque M2 (SWL)	432 Nm	612 Nm

According to IEC 61537, Chapter 10.8.2.3, without spacer

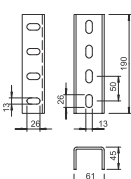
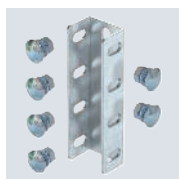
The surface coating is a coating created in a single-dip method with extra-high zinc thicknesses. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

Suspended support (U profile) with welded head plate. For fastening to horizontal concrete ceilings and steel girders.



VUS 7 U support connector

St FT



Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 7 FT	10	112.800	6018378

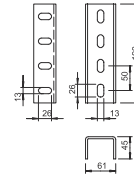
U support connector to connect US 7 supports. Including appropriate fastening material.

A2 2B

VUS 7 U support connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 7 A2	1	110.900	6018408

U support connector to connect US 7 supports.
Including appropriate fastening material.

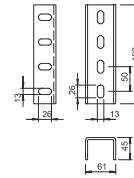


A4 2B

VUS 7 U support connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 7 A4	1	115.800	6018412

U support connector to connect US 7 supports.
Including appropriate fastening material.

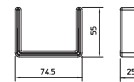


PE

End cap

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
US 7 KS OR	Pastel orange	20	1.806	6338497

Protective cap to cover the ends of US 7 supports.

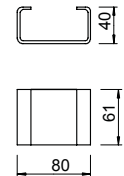


St FT

DSK 61 spacer

Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 61 FT	20	25.000	6416519

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 US 7 supports.

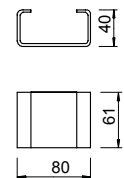


A2 A4 2B

DSK 61 spacer

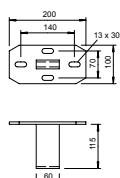
Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 61 A2	10	20.200	6416527
DSK 61 A4	10	20.200	6416533

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 US 7 supports.



Head plate, light-duty version

St FT



Type

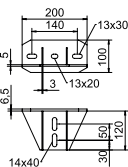
KU 7 FT

Pack Piece	Weight kg/100 pc.	Item no.
1	144.600	6349102

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

Head plate, heavy duty

St FT



Type

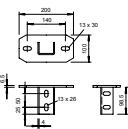
KU 7 NOX FT

Pack Piece	Weight kg/100 pc.	Item no.
1	184.000	6349056

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

Head plate, heavy duty

A2 A4 2B



Type

KUS 7 A2

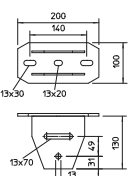
KUS 7 A4

Pack Piece	Weight kg/100 pc.	Item no.
1	140.000	6349277
1	140.000	6349279

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

Head plate, variable

St FT



Type

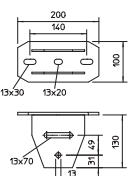
KU 7 VQP FT

Pack Piece	Weight kg/100 pc.	Item no.
1	181.600	6349153

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.

Head plate, variable

A2 2B



Type

KU 7 VQP A2

Pack Piece	Weight kg/100 pc.	Item no.
1	180.700	6349196

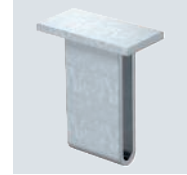
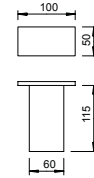
Please order fastening material (two hexagonal bolts SKS 12 x 100 and spacer DSK 45) separately.
Variable head plate for installation on US 7 support.

St FT

Head plate for welding

Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 7 AOX FT	1	82.000	6349218

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

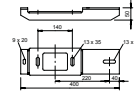


St FT

Adapter head plate, asymmetrical

Type	Pack Piece	Weight kg/100 pc.	Item no.
KA-ASY FT	1	280.000	6346820

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.

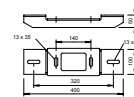


St FT

Adapter head plate, symmetrical

Type	Pack Piece	Weight kg/100 pc.	Item no.
KA-SY FT	1	276.000	6346804

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.

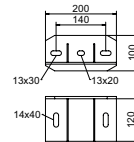


St FT

BW US 7 fastening bracket

Type	Pack Piece	Weight kg/100 pc.	Item no.
BW US 7 FT	5	249.000	6019532

Suitable for U support, type US 7.
Fastening bracket for the creation of individual support structures with U supports.

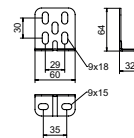


St FS

Fastening bracket BW 64

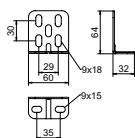
Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 64 32 FS	10	7.090	6019680

Light-duty fastening bracket of limb dimension 64 x 32 mm.



Fastening bracket BW 64

St FT

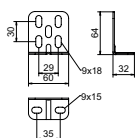


Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 64 32 FT	10	7.700	6019682

Light-duty fastening bracket of limb dimension 64 x 32 mm.

Fastening bracket BW 64

A2



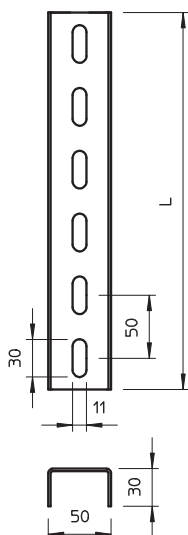
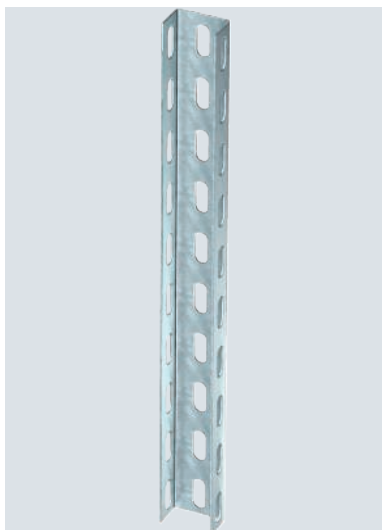
Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 64 32 A2	10	7.090	6019686

Light-duty fastening bracket of limb dimension 64 x 32 mm.

U supports

St FS FT

US 3 support



Type	Length mm	Material thickness mm	BS	Pack Piece	Weight kg/100 pc.	Item no.
US 3 20 FS	200	2	🔥	1	27.000	6342302
US 3 30 FS	300	2	🔥	1	40.000	6342304
US 3 40 FS	400	2	🔥	1	53.000	6342306
US 3 50 FS	500	2	🔥	1	67.000	6342308
US 3 60 FS	600	2	🔥	1	80.000	6342310
US 3 70 FS	700	2	🔥	1	93.000	6342312
US 3 80 FS	800	2	🔥	1	107.000	6342314
US 3 100 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 90 FS	900	2	🔥	1	120.000	6342316
US 3 600 FT	6000	2		1	834.000	6342450

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

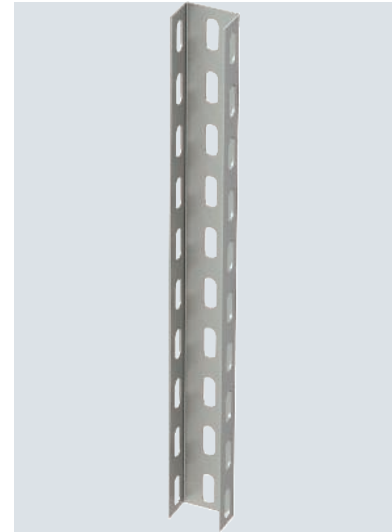
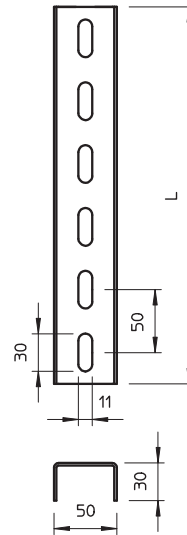
For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

A2 A4 2B

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
US 3 30 A2	300	2	1	42.200	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

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

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.



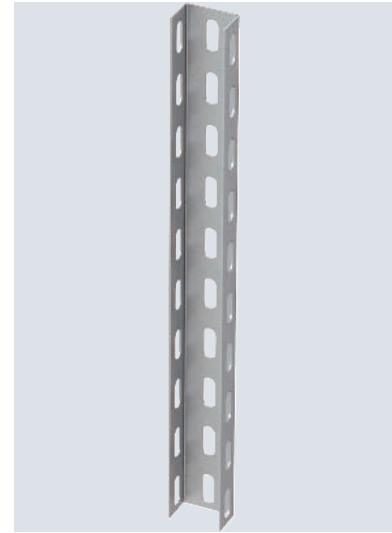
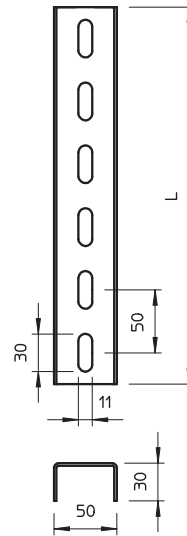
US 3 support

A4 2B

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
US 3 600 A4	6000	2	1	790.000	6342505

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

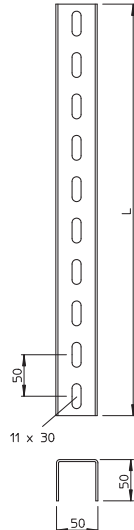
For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.



US 3 support

US 5 support

St FT



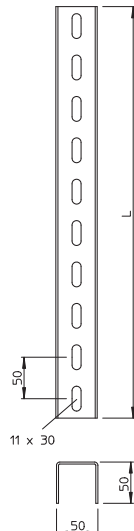
Type	Length mm	Material thickness mm	BS	Pack Piece	Weight kg/100 pc.	Item no.
US 5 20 FT	200	2.5		1	51.000	6340881
US 5 30 FT	300	2.5		1	79.000	6340903
US 5 40 FT	400	2.5		1	106.000	6340911
US 5 50 FT	500	2.5		1	133.000	6340938
US 5 60 FT	600	2.5		1	160.000	6340946
US 5 70 FT	700	2.5		1	175.000	6340950
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

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

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.

US 5 support

A2 A4 2B



Type	Length mm	Material thickness mm		Pack Piece	Weight kg/100 pc.	Item no.
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 60 A2	600	2.5		1	145.000	6341117
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	737.000	6341152
US 5 30 A 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	737.000	6341073

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

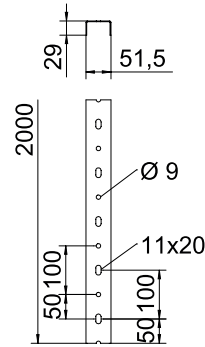
For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.

St FS

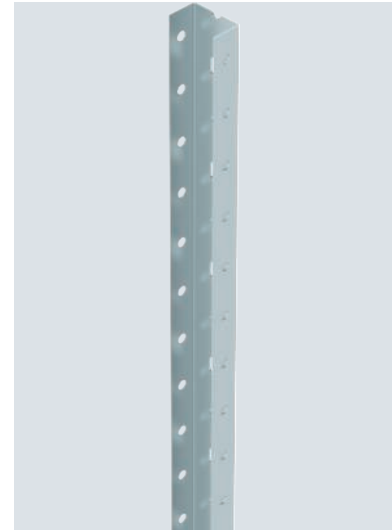
Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
USL 5 200 FS	2000	1.75	1	270.600	6344305

U support with perforations on three sides.

Screwless support bracket system. The connection between the head plate and the support and between the support and the brackets is implemented using splints. Rear perforation = 20 x 11 mm and slot and round hole d = 9 mm. Side perforation = Round hole 9 mm.



U support USL 5

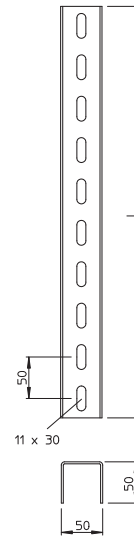


St FT SO

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
US 5 50 FT SO	500	2.5	1	126.000	7193560
US 5 100 FT SO	1000	2.5	1	265.000	7193580

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

The surface coating is a coating created in a single-dip method with extra-high zinc thicknesses. 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.

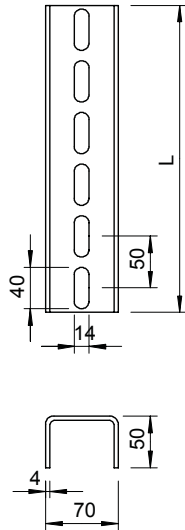


US 5 support FT SOMY



US 7 support

St FT



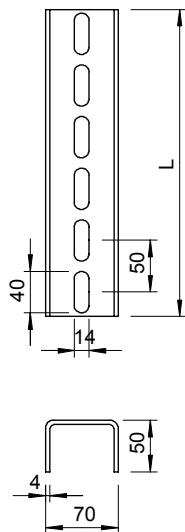
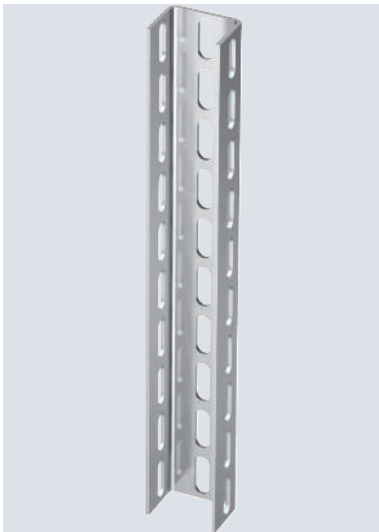
Type	Length mm	Material thickness mm	BS	Pack Piece	Weight kg/100 pc.	Item no.
US 7 20 FT	200	4	🔥	1	81.000	6340016
US 7 30 FT	300	4	🔥	1	121.000	6340032
US 7 40 FT	400	4	🔥	1	160.700	6340059
US 7 50 FT	500	4	🔥	1	200.900	6340075
US 7 60 FT	600	4	🔥	1	241.100	6340091
US 7 70 FT	700	4	🔥	1	281.300	6340113
US 7 80 FT	800	4	🔥	1	323.000	6340148
US 7 90 FT	900	4	🔥	1	361.700	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	803.700	6340296
US 7 250 FT	2500	4	🔥	1	1,009.000	6340385
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

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

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.

US 7 support

A2 A4 2B



Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
US 7 50 A2	500	4	1	196.100	6341764
US 7 100 A2	1000	4	1	392.100	6341810
US 7 200 A2	2000	4	1	784.200	6341950
US 7 300 A2	3000	4	1	1,176.300	6341969
US 7 600 A2	6000	4	1	2,433.000	6341993
US 7 600 A4	6000	4	1	2,433.000	6341995
US 7 30 A4	300	4	1	121.000	6341750
US 7 40 A4	400	4	1	161.000	6341758
US 7 50 A4	500	4	1	201.000	6341766
US 7 60 A4	600	4	1	242.000	6341774
US 7 80 A4	800	4	1	322.000	6341800
US 7 90 A4	900	4	1	363.000	6341804
US 7 300 A4	3000	4	1	1,176.300	6341970

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

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.

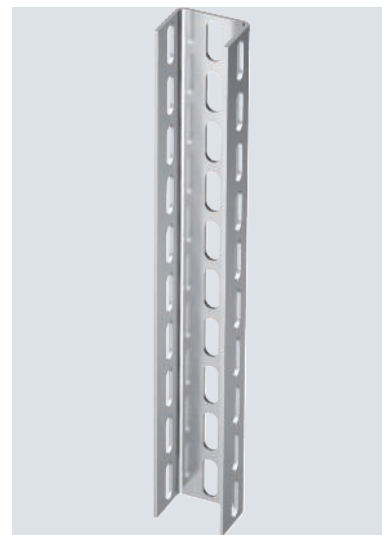
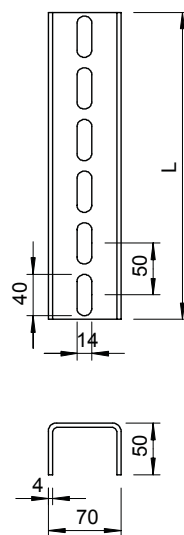
A2 2B

US 7 support

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
US 7 150 A2	1500	4	1	588.200	6341861

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

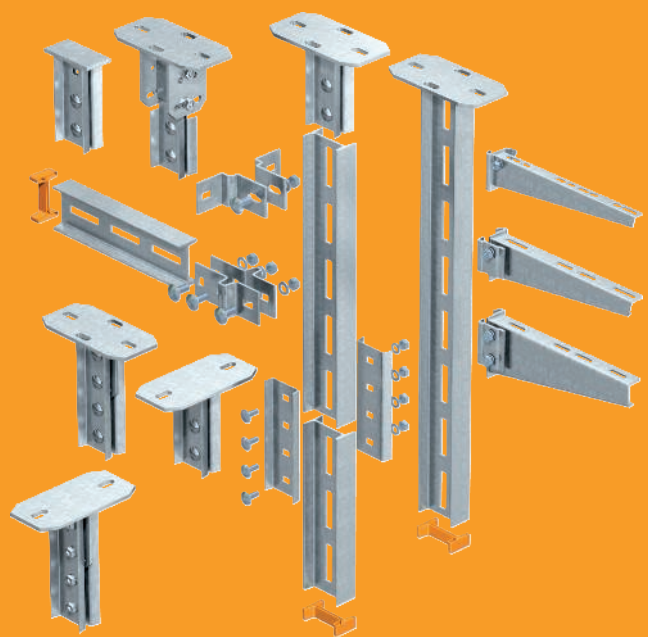
For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.





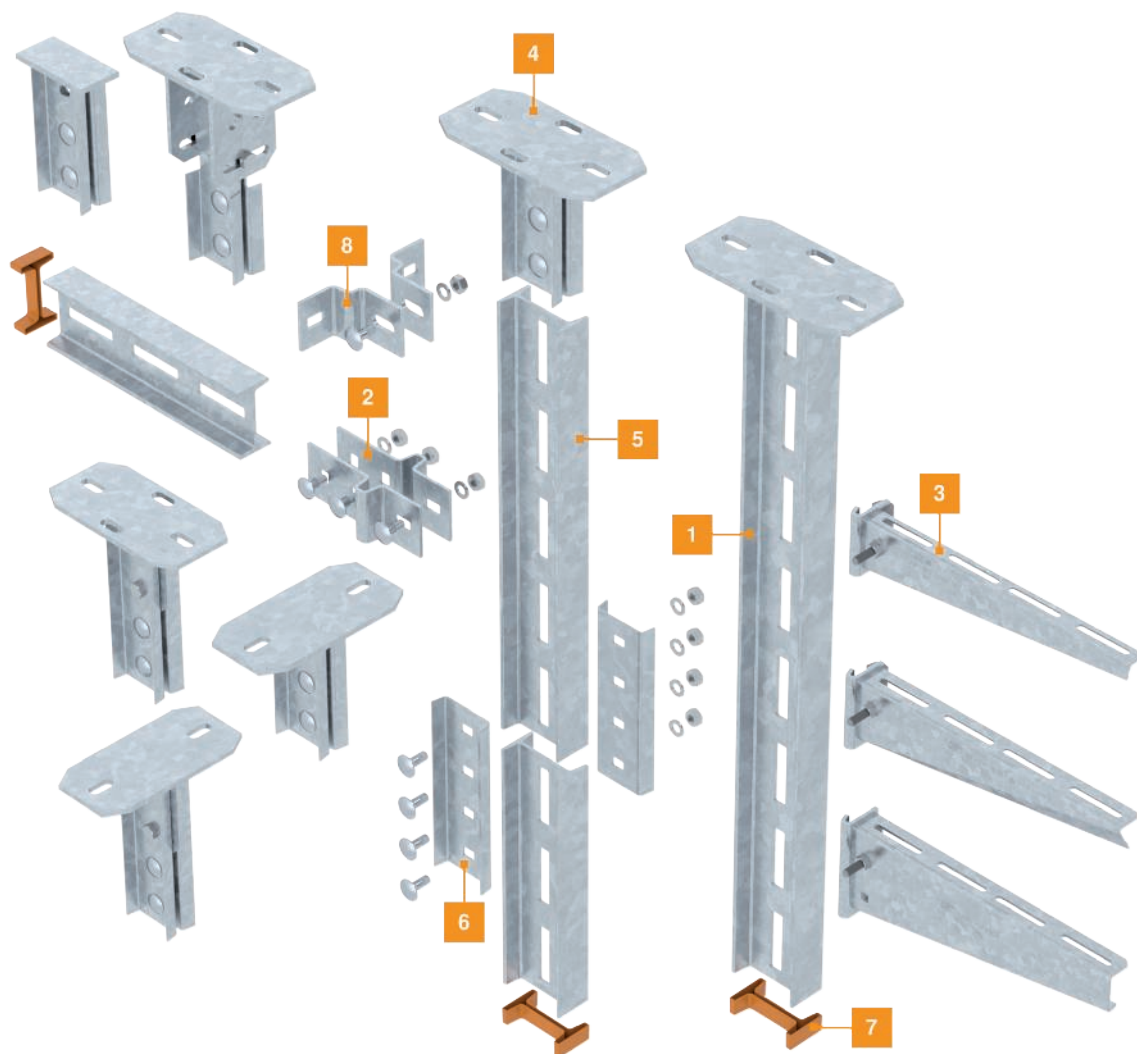
I support family

The I support system from OBO Bettermann really comes into its own in situations where high loads must be carried, large distances must be bridged and difficult routes must be implemented. The I support system fulfils all the requirements of a heavy-duty cable mounting system. The high load capacities of all the system components permit the mounting of complex structures. The comprehensive range of head plates allows the implementation of all conceivable solutions. This heavy-duty system is used with large support spacings of wide span systems or for multi-layer set-ups of standard cable trays and cable ladder systems. The combination of I supports and support brackets of type AS 15, AS 30 and AS 55 form a perfectly matched product range, the height of which can be infinitely adjusted.



I support and bracket systems

Installation principle



- | | |
|----|---------------------------|
| 1 | Luminaire support tray |
| 2 | Luminaire support channel |
| 3 | 90° bend |
| 4 | Cover with turn buckle |
| 5 | Edge protection ring |
| 6 | Suspension bracket |
| 7 | Suspension chain |
| 8 | Centre suspension |
| 9 | Threaded rod |
| 10 | Trapezoidal fastening |

Mounting aid

I supports and brackets



Application on the ceiling

Standard mounting of suspended supports to concrete ceilings using bolt ties.



Head plate mounting

Fastening of the standard head plate, KI 8, for I suspended supports to concrete ceilings using bolt ties.



Head plate, variable (rotated through 90°)

Mounting of the variable head plate, type KI 8 VLK, rotated through 90°, to sloping concrete ceilings using bolt ties.



Variable head plate

Mounting of the variable head plate, type KI 8 VQP, to sloping concrete ceilings using bolt ties.



I support connection

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



Bracket mounting

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



Adapter head plate, asymmetrical

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



Adapter head plate, symmetrical

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



Wall mounting, I support

Mounting of an I support on the wall using fastening brackets, type BW 80/55, and bolt ties to accept multiple support brackets, type AS.



Special structure

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



Application on steel girder

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



Direct girder clamping

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



Steel clamping with C profile, route in longitudinal direction

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



Steel clamping with C profile, route in transverse direction

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



Head plate, variable (transverse)

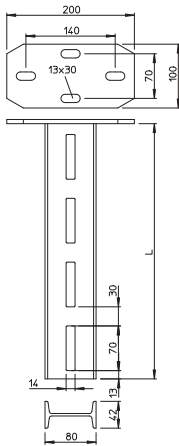
Mounting of the variable, transversely adjustable head plate, type KI 8 VLP, on rising or falling steel structures with profile rail, type MS 5030, and clamping angles, type KWH.

IS 8 support



I support with welded head plate. For fastening to horizontal concrete ceilings and steel girders.

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.



Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
IS 8 K 20 FT	200	4	12	1	205.900	6361021
IS 8 K 30 FT	300	4	12	1	263.900	6361056
IS 8 K 40 FT	400	4	12	1	321.900	6361072
IS 8 K 50 FT	500	4	12	1	379.900	6361099
IS 8 K 60 FT	600	4	12	1	437.900	6361110
IS 8 K 70 FT	700	4	12	1	495.900	6361137
IS 8 K 80 FT	800	4	12	1	553.900	6361153
IS 8 K 90 FT	900	4	12	1	611.900	6361188
IS 8 K 100 FT	1000	4	12	1	669.800	6361218
IS 8 K 110 FT	1100	4	12	1	727.800	6361234
IS 8 K 120 FT	1200	4	12	1	785.800	6361250
IS 8 K 130 FT	1300	4	12	1	843.800	6361277
IS 8 K 140 FT	1400	4	12	1	901.800	6361293
IS 8 K 150 FT	1500	4	12	1	959.800	6361315
IS 8 K 160 FT	1600	4	12	1	1,017.800	6361331
IS 8 K 170 FT	1700	4	12	1	1,075.800	6361366
IS 8 K 180 FT	1800	4	12	1	1,133.800	6361382
IS 8 K 200 FT	2000	4	12	1	1,249.700	6361420

Load

Testing of the bending torque on the ceiling plate

Item on test	IS 8 K 80
Deformation measuring point m	
Length L	800 mm
Force F	3.000 kN
Bending torque M1 (SWL)	2,400 Nm

According to IEC 61537, Chapter 10.8.2.1

Testing of the tensile strength

Item on test	IS 8 K 80
Deformation measuring point m	
Force F (SWL)	50 kN

According to IEC 61537, Chapter 10.8.2.2

Testing of the bending torque on the support with bracket

Item on test	IS 8 K 80	IS 8 K 140	IS 8 K 180
	AS 55 101	AS 55 101	AS 55 101
Deformation measuring point m			
A1 lever arm	1,010 mm	1,010 mm	1,010 mm
A2 lever arm	10 mm	10 mm	10 mm
Length L	500 mm	1,000 mm	1,500 mm
Force F	2.847 kN	3.025 kN	3.025 kN
Bending torque M2 (SWL)	1,600 Nm	1,700 Nm	1,700 Nm

According to IEC 61537, Chapter 10.8.2.3

St FT

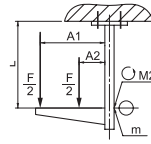
Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
IS 8 K 300 FT	3000	4	12	1	1,833.000	6361692

Load

Testing of the bending torque on the support with bracket

Item on test	IS 8 K 80	IS 8 K 140	IS 8 K 180
Deformation measuring point m	AS 55 101	AS 55 101	AS 55 101
A1 lever arm	1,010 mm	1,010 mm	1,010 mm
A2 lever arm	10 mm	10 mm	10 mm
Length L	500 mm	1,000 mm	1,500 mm
Force F	2.847 kN	3.025 kN	3.025 kN
Bending torque M2 (SWL)	1,600 Nm	1,700 Nm	1,700 Nm

According to IEC 61537, Chapter 10.8.2.3



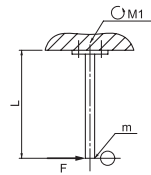
Single and double-sided brackets of type AS 15, AS 30 and AS 55 can be fastened to the IS 8 K suspended support. The height of the brackets is infinitely adjustable.

I support with welded head plate. For fastening to horizontal concrete ceilings and steel girders.

Testing of the bending torque on the ceiling plate

Item on test	IS 8 K 80
Deformation measuring point m	
Length L	800 mm
Force F	3.000 kN
Bending torque M1 (SWL)	2,400 Nm

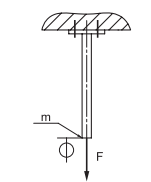
According to IEC 61537, Chapter 10.8.2.1



Testing of the tensile strength

Item on test	IS 8 K 80
Deformation measuring point m	
Force F (SWL)	50 kN

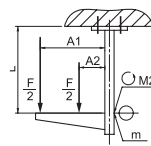
According to IEC 61537, Chapter 10.8.2.2



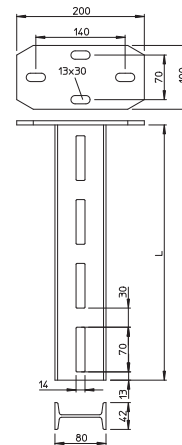
Testing of the bending torque on the support with bracket

Item on test	IS 8 K 80	IS 8 K 140	IS 8 K 180
Deformation measuring point m	AS 55 101	AS 55 101	AS 55 101
A1 lever arm	1,010 mm	1,010 mm	1,010 mm
A2 lever arm	10 mm	10 mm	10 mm
Length L	500 mm	1,000 mm	1,500 mm
Force F	2.847 kN	3.025 kN	3.025 kN
Bending torque M2 (SWL)	1,600 Nm	1,700 Nm	1,700 Nm

According to IEC 61537, Chapter 10.8.2.3

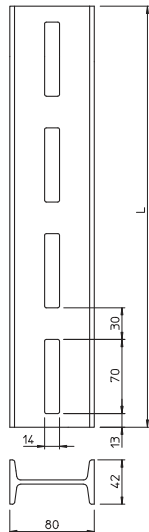
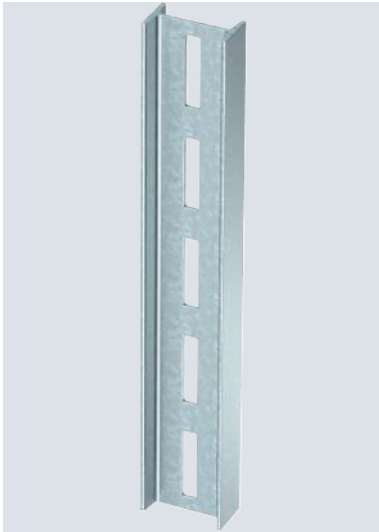


Dimensions



IS 8 support

St FT

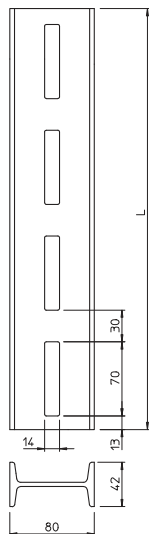
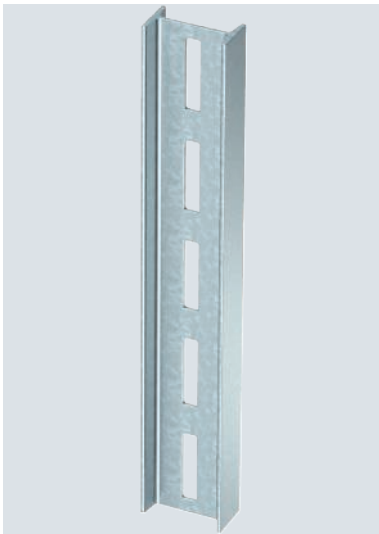


Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
IS 8 30 FT	300	4	1	171.000	6337031
IS 8 40 FT	400	4	1	229.000	6337058
IS 8 50 FT	500	4	1	286.000	6337066
IS 8 60 FT	600	4	1	344.000	6337074
IS 8 70 FT	700	4	1	402.000	6337082
IS 8 80 FT	800	4	1	459.000	6337090
IS 8 90 FT	900	4	1	517.000	6337104
IS 8 100 FT	1000	4	1	575.000	6337112
IS 8 110 FT	1100	4	1	632.000	6337120
IS 8 120 FT	1200	4	1	690.000	6337139
IS 8 130 FT	1300	4	1	748.000	6337147
IS 8 140 FT	1400	4	1	806.000	6337155
IS 8 150 FT	1500	4	1	863.000	6337163
IS 8 160 FT	1600	4	1	921.000	6337171
IS 8 170 FT	1700	4	1	979.000	6337198
IS 8 180 FT	1800	4	1	1,036.000	6337201
IS 8 190 FT	1900	4	1	1,094.000	6337228
IS 8 200 FT	2000	4	1	1,152.000	6337236
IS 8 300 FT	3000	4	1	1,730.000	6337244
IS 8 600 FT	6000	4	1	3,460.000	6337252

I support in fixed lengths. Dimensions 80 x 42 mm.
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.

IS 8 support

St FT

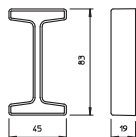


Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
IS 8 250 FT	2500	4	1	1,440.000	6337240

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.

End cap

PE



Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
IS 8 KS OR	Pastel orange	20	0.705	6338519

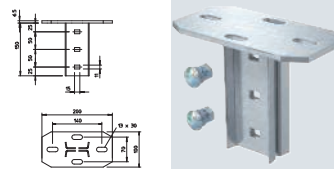
End cap to cover the ends of IS 8 supports.

St FT

Head plate, longitudinal

Type	Pack Piece	Weight kg/100 pc.	Item no.
KI 8 FT	1	155.000	6347053

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.

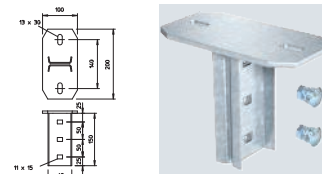


St FT

Head plate, transverse

Type	Pack Piece	Weight kg/100 pc.	Item no.
KI 8 NOK FT	1	158.400	6347061

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.

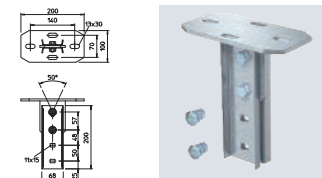


St FT

Head plate, variable

Type	Pack Piece	Weight kg/100 pc.	Item no.
KI 8 VQP FT	1	219.000	6348106

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.

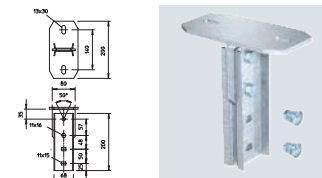


St FT

Head plate, variable

Type	Pack Piece	Weight kg/100 pc.	Item no.
KI 8 VLK FT	1	227.000	6348157

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.

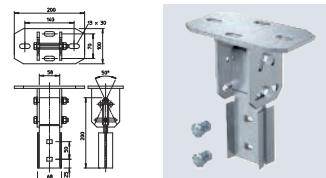


St FT

Head plate, variable

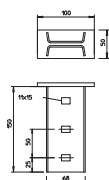
Type	Pack Piece	Weight kg/100 pc.	Item no.
KI 8 VLP FT	1	275.000	6347843

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.



St FT

Head plate for welding

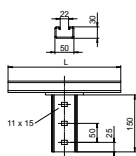


Type	Pack Piece	Weight kg/100 pc.	Item no.
KI 8 AOX FT	1	84.000	6347088

Including appropriate fastening material.
Limit the length of the support to max. 2,000 mm.
Head plate for welded mounting on IS 8 support.

Head plate with welded CPS 5 rail

St FT

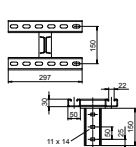


Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
KI8 CPS5-1-300FT	300	1	166.000	6347026
KI8 CPS5-1-400FT	400	1	195.000	6347030
KI8 CPS5-1-500FT	500	1	224.000	6347028

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 the longitudinal direction.

Head plate with 2 welded-on CPS 5 rails

St FT

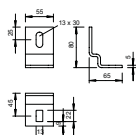
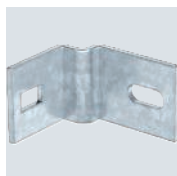


Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
KI8 CPS5-2-300FT	300	1	281.000	6347036
KI8 CPS5-2-400FT	400	1	345.300	6347032
KI8 CPS5-2-500FT	500	1	397.000	6347038

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 the longitudinal direction.

Mounting angle BW 80

St FT

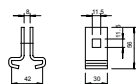
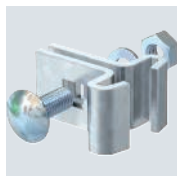


Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 80 55 FT	10	32.900	6019528

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.

Support claw

St FT



Type	Pack Piece	Weight kg/100 pc.	Item no.
TGK 30 42 FT	10	17.000	6018963

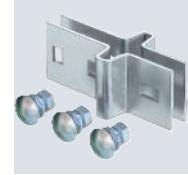
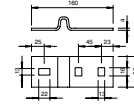
The support claw can also be used in conjunction with the heavy-duty ladder, type SLS 80.
Support claw with truss-head bolt, type FRS M10 x 25 for mounting on the IS 8 support.

St FT

Support strap

Type	Pack Piece	Weight kg/100 pc.	Item no.
AHIS 8 FT	10	89.900	6019064

Including appropriate fastening material.
Support strap for right-angled connection of I supports.

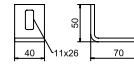


St FT

BW 10 fastening bracket

Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 10 FT	10	14.500	6019480

Fastening bracket for fastening supports, vertical ladders and constructions on walls, ceilings or steel scaffolding.

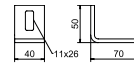


A2 2B

BW 10 fastening bracket

Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 10 A2	10	20.100	6019484

Fastening bracket for fastening supports, vertical ladders and constructions on walls, ceilings or steel scaffolding.

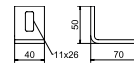


A4 2B

BW 10 fastening bracket

Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 10 A4	10	20.100	6019486

Fastening bracket for fastening supports, vertical ladders and constructions on walls, ceilings or steel scaffolding.

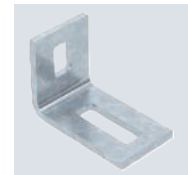


St FT

BW 12 fastening bracket

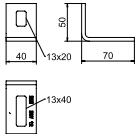
Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 12 FT	10	23.000	6019500

Fastening bracket for fastening supports, vertical ladders and constructions on walls, ceilings or steel scaffolding.



BW 12 fastening bracket

A4 2B



Type
BW 12 A4

Pack Piece	Weight kg/100 pc.	Item no.
10	23.000	6019506

Fastening bracket for fastening supports, vertical ladders and constructions on walls, ceilings or steel scaffolding.



System description

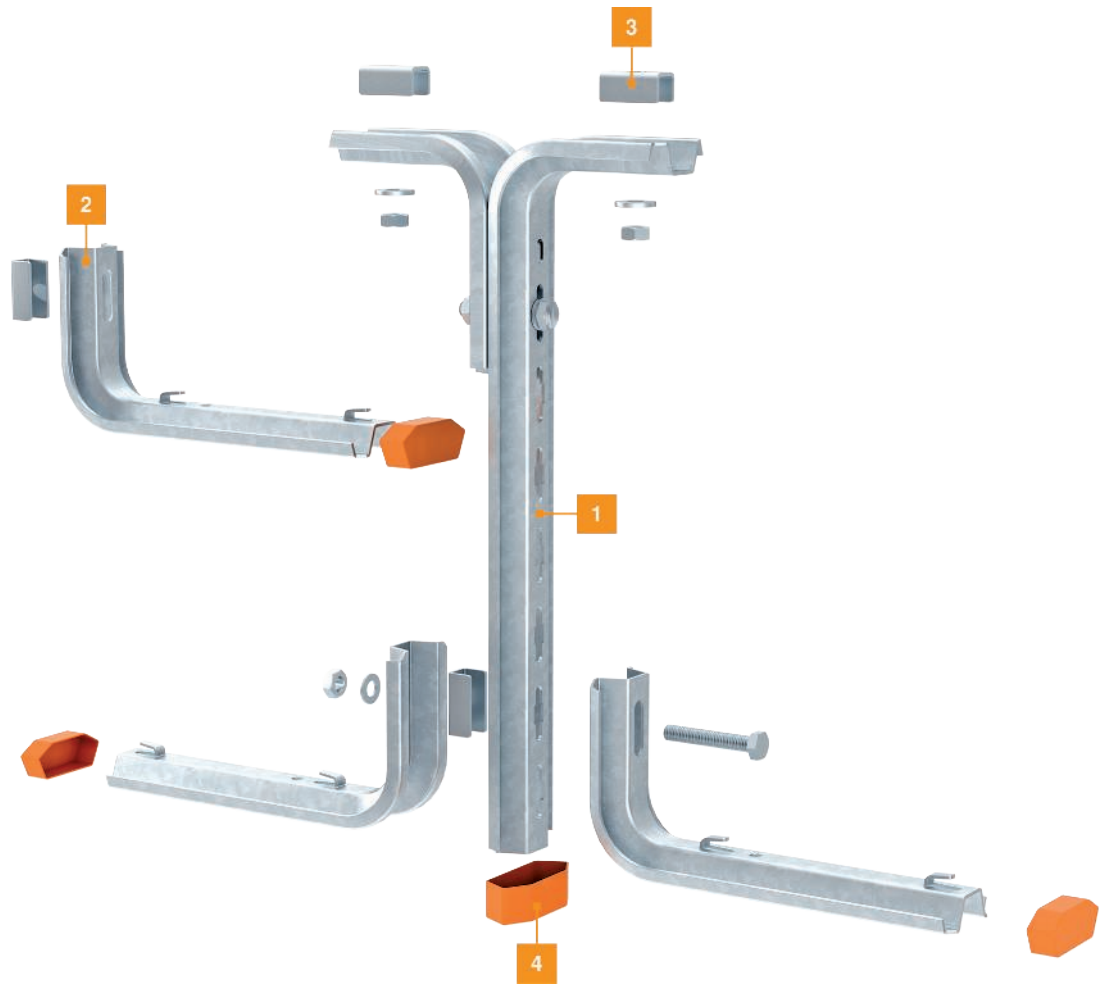
TP supports and brackets



The TP system is a range of light supports and brackets. This product range, which consists of TP suspended supports and brackets, can be used universally as ceiling and wall mounting.

Installation principle

TP supports and brackets



- | | |
|---|--------------------------------------|
| 1 | TP suspended support |
| 2 | TP support/wall and support brackets |
| 3 | Spacer |
| 4 | End cap |

Mounting aid

TP supports and brackets



Ceiling mounting of TP wall and ceiling bracket

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



Installation of TP support with single-sided bracket fixing

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



Complete mounting of a TP system

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

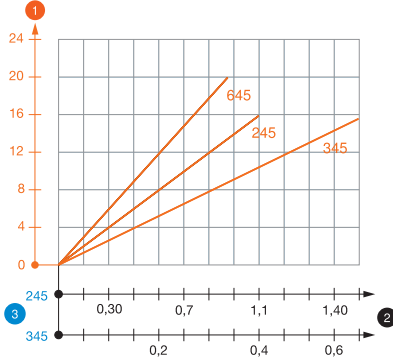
St FS

TP support

Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
TPS 445 FS	445	1	73.000	6364322
TPS 545 FS	545	1	80.000	6364349
TPS 645 FS	645	1	99.000	6364365

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



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.

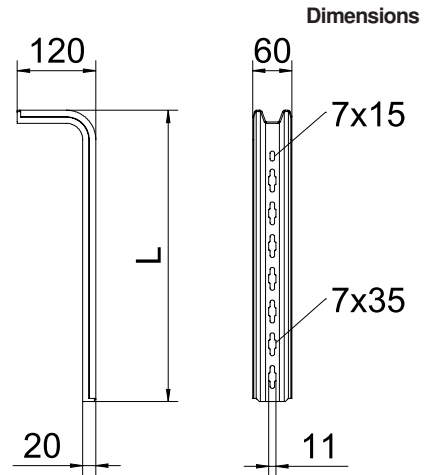
TP support for fastening to horizontal concrete ceilings.

Characteristic anchor load values for TP support

		Single-sided load		
		Max. load [kN]		
		Bracket width [mm]		
Anchor type		145	245	345
	BZ3 8x75/0-20	1,48	0,93	0,68
	BZ3 10x90/0-30	1,48	0,93	0,68
		Double-sided load		
		Max. load [kN]		
		Bracket width [mm]		
Anchor type		145	245	345
	BZ3 8x75/0-20	2,38	1,84	1,55
	BZ3 10x90/0-30	2,38	1,50	1,50

Max. total load $F = \text{cable weight} + \text{cable tray} + \text{bracket} + \text{suspended support}$. The tabular values for double-sided loads take the available axis spacing $a_l = 17 \text{ cm}$ 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).

Type	Dim. L mm
TPS 445 FS	445
TPS 545 FS	545
TPS 645 FS	645



TP support



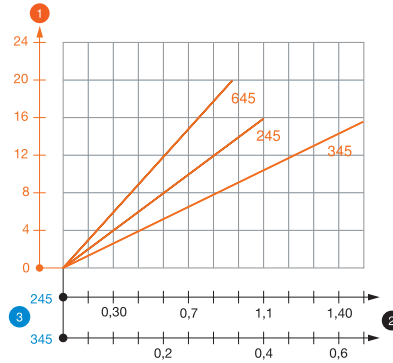
If the profile is fastened directly to the ceiling or the profile is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4. Important: only use brackets of length 345 mm or less.

TP support for fastening to horizontal concrete ceilings.

Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
TPS 445 FT	445	1	75.000	6364403
TPS 545 FT	545	1	89.000	6364500
TPS 645 FT	645	1	103.000	6364608

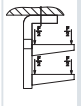
Load


Load diagram, TP support, 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

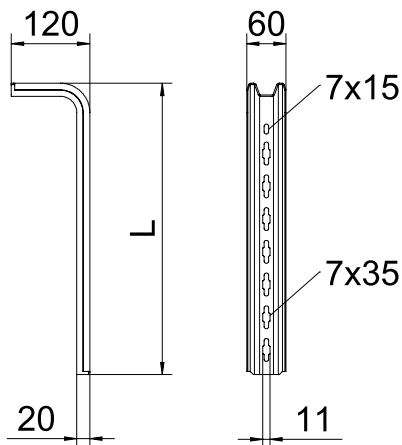
Characteristic anchor load values for TP support

		Single-sided load		
		Max. load [kN]		
		Bracket width [mm]		
		145	245	345
	Anchor type			
	BZ3 8x75/0-20	1,48	0,93	0,68
	BZ3 10x90/0-30	1,48	0,93	0,68

		Double-sided load		
		Max. load [kN]		
		Bracket width [mm]		
		145	245	345
	Anchor type			
	BZ3 8x75/0-20	2,38	1,84	1,55
	BZ3 10x90/0-30	2,38	1,50	1,50

Max. total load $F = \text{cable weight} + \text{cable tray} + \text{bracket} + \text{suspended support}$. The tabular values for double-sided loads take the available axis spacing $a_i = 17 \text{ cm}$ 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).

Dimensions

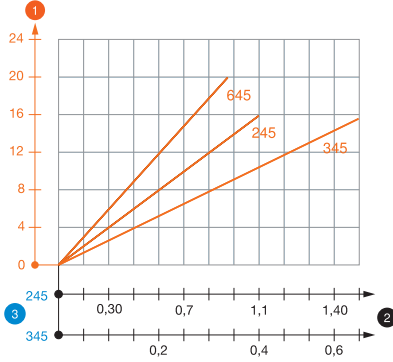


Type	Dim. L mm
TPS 445 FT	445
TPS 545 FT	545
TPS 645 FT	645

Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
TPS 445 A2	445	1	72.000	6364848
TPS 545 A2	545	1	85.000	6364850
TPS 645 A2	645	1	99.000	6364852

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



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.

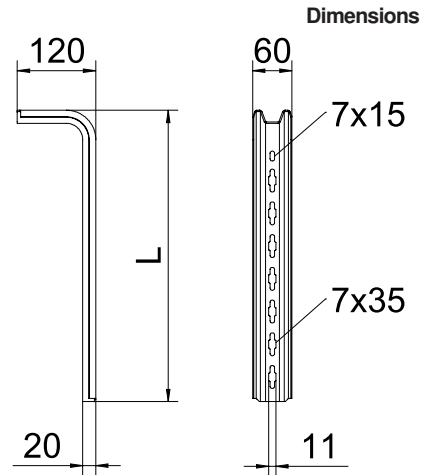
TP support for fastening to horizontal concrete ceilings.

Characteristic anchor load values for TP support

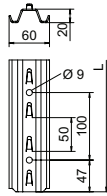
		Single-sided load		
		Max. load [kN]		
		Bracket width [mm]		
Anchor type		145	245	345
	BZ3 8x75/0-20	1,48	0,93	0,68
	BZ3 10x90/0-30	1,48	0,93	0,68
		Double-sided load		
		Max. load [kN]		
		Bracket width [mm]		
Anchor type		145	245	345
	BZ3 8x75/0-20	2,38	1,84	1,55
	BZ3 10x90/0-30	2,38	1,50	1,50

Max. total load $F = \text{cable weight} + \text{cable tray} + \text{bracket} + \text{suspended support}$. The tabular values for double-sided loads take the available axis spacing $a_l = 17 \text{ cm}$ 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).

Type	Dim. L mm
TPS 445 A2	445
TPS 545 A2	545
TPS 645 A2	645



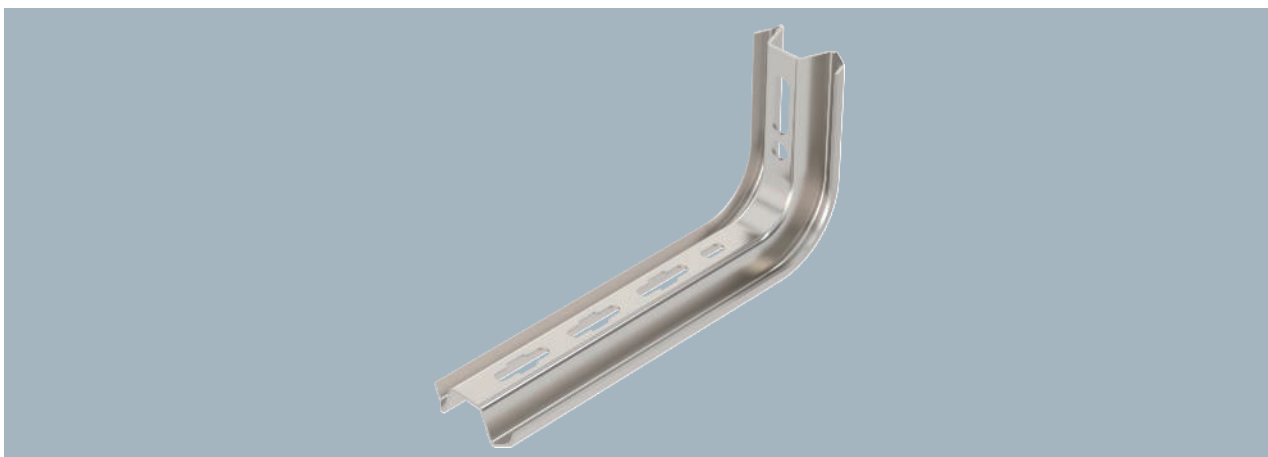
TP profile



Type	Length mm	Pack Piece	Weight kg/100 pc.	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 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

TP profile with clamping lugs.

TP support/wall and support bracket

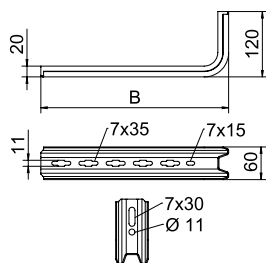


If the profile is fastened directly to the ceiling or the profile is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.

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

Type	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
TPSA 145 A2	100	1	32.000	6364871
TPSA 245 A2	200	1	45.000	6364876
TPSA 345 A2	300	1	59.000	6364881

Dimensions



Type	Dim. B mm
TPSA 145 A2	145
TPSA 245 A2	245
TPSA 345 A2	345

Load

Characteristic anchor load values for TP bracket - Wall fastening

Item on test	Force F (SWL)	Width B
TPSA 145 A2	0.15 kN	145 mm
TPSA 245 A2	0.950 kN	245 mm
TPSA 345 A2	0.55 kN	345 mm

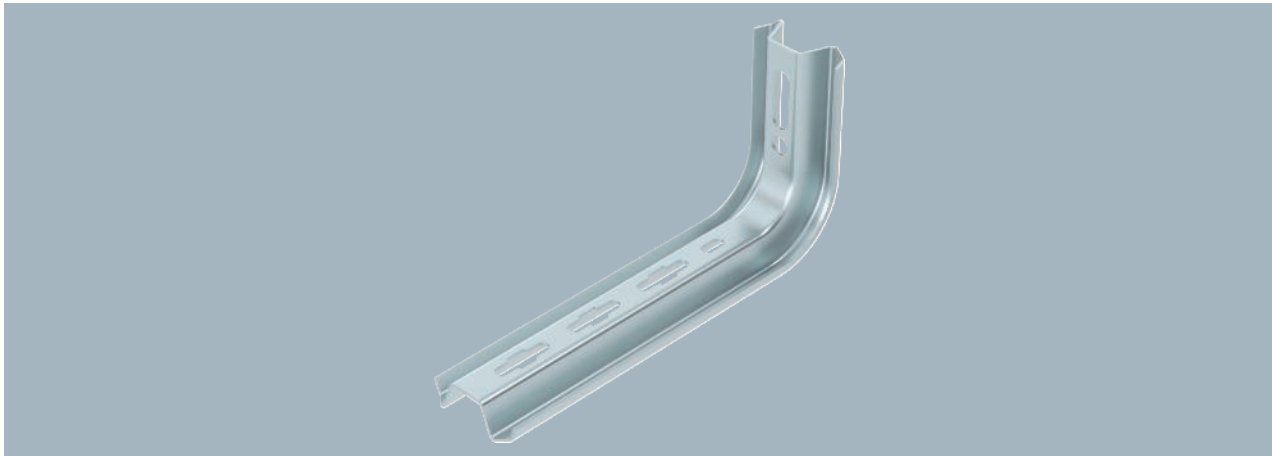
Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Characteristic anchor load values for TP brackets

Wall fastening	Max. load F [kN]		
	Bracket width [mm]		
Anchor type	145	195	245
BZ-U 8-30-41/95	1	1.3	0.7
BZ-U 10-30-50/110	1.5	1	0.9

TPSA TP support/wall and support bracket

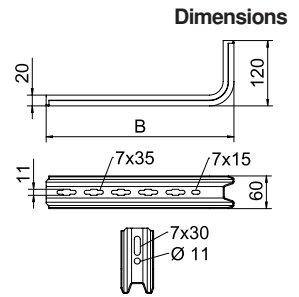
St FS



Type	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
TPSA 145 FS	100	1	32.300	6364101
TPSA 245 FS	200	1	46.000	6364209
TPSA 345 FS	300	1	60.000	6364306

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.

Type	Dim. B mm
TPSA 145 FS	145
TPSA 245 FS	245
TPSA 345 FS	345



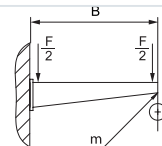
Load diagram, bracket TPSA

- 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 - wall fastening

Item on test	Force F (SWL)	Width B
TPSA 145 FS	1.5 kN	145 mm
TPSA 245 FS	0.9 kN	245 mm
TPSA 345 FS	0.55 kN	345 mm
TPSA 245 FS SP	0.9 kN	245 mm

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).

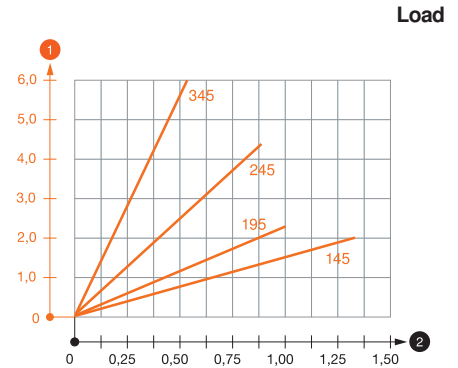


Characteristic anchor load values for TP brackets

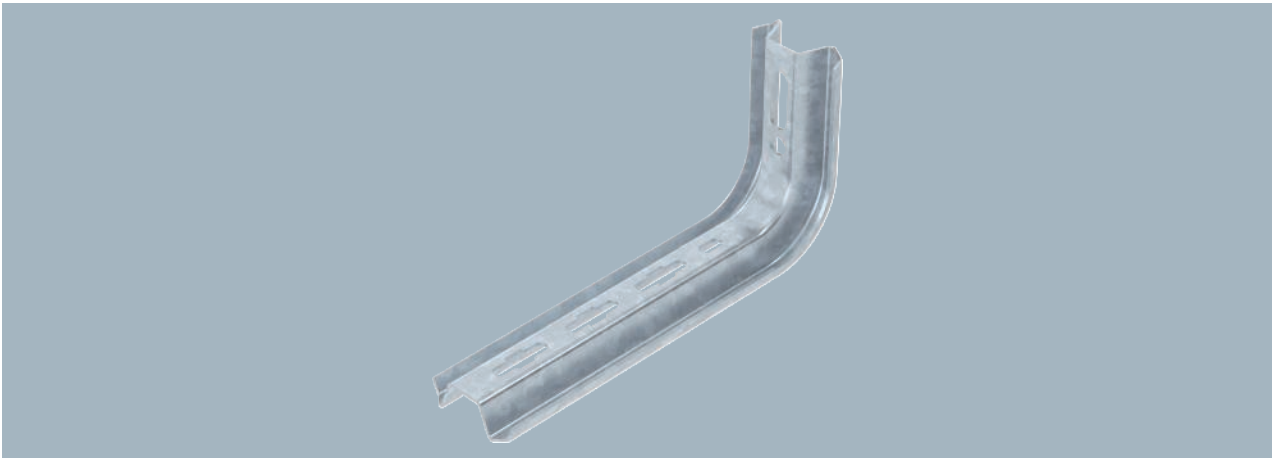
Anchor type	Max. load F [kN]	Bracket width [mm]		
		145	195	245
BZ-U 8-30-41/95	1	1.3	0.7	2.4
BZ-U 10-30-50/110	1.5	1	0.9	0.55

Characteristic anchor load values for TP bracket

Anchor type	Wall fastening			
	Max. load [kN]			
	Bracket width [mm]			
BZ3 10x90/0-30	145	195	245	345
	1,30	0,93	0,60	0,55



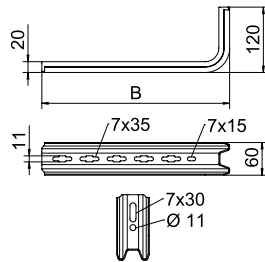
TPSA TP support/wall and support bracket



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.

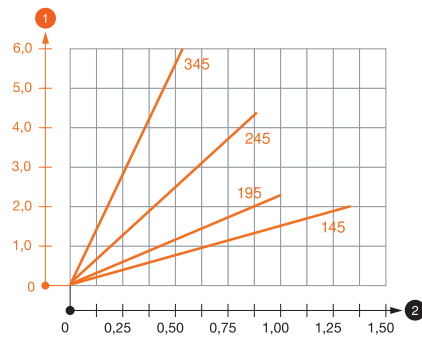
Type	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
TPSA 145 FT	100	1	33.000	6364659
TPSA 195 FT	150	1	40.000	6364683
TPSA 245 FT	200	1	47.000	6364667
TPSA 345 FT	300	1	62.000	6364675

Dimensions

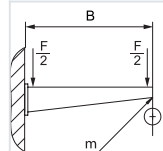


Type	Dim. B mm
TPSA 145 FT	145
TPSA 195 FT	195
TPSA 245 FT	245
TPSA 345 FT	345

Load



- 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 - wall fastening

Item on test	Force F (SWL)	Width B
TPSA 145 FT	0.15 kN	145 mm
TPSA 195 FT	1 kN	195 mm
TPSA 245 FT	0.950 kN	245 mm
TPSA 345 FT	0.55 kN	345 mm

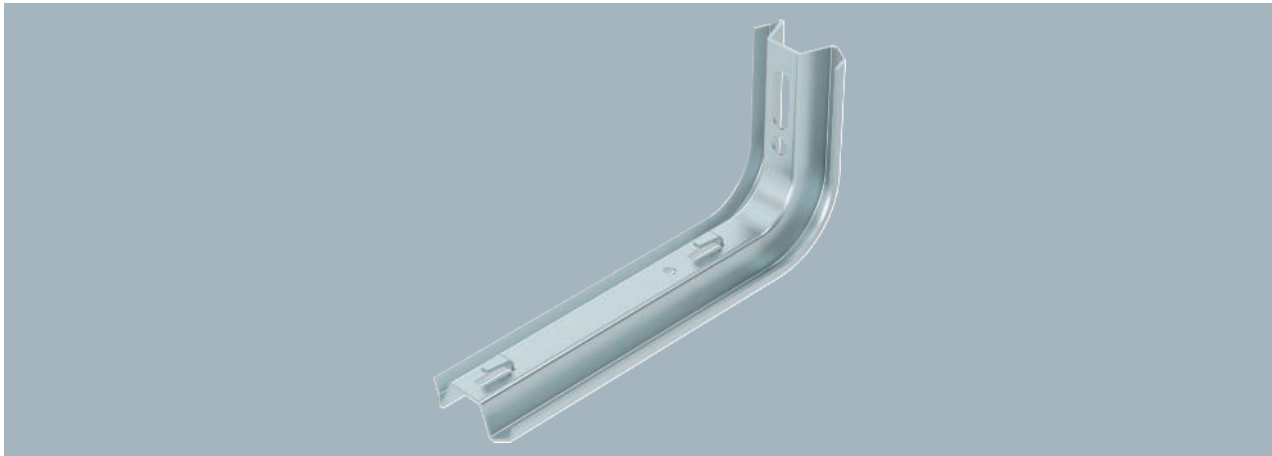
Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Characteristic anchor load values for TP brackets

Anchor type	Wall fastening			
	Max. load F [kN]			
	Bracket width [mm]			
	145	195	245	345
BZ-U 8-30-41/95	1	1.3	0.7	2.4
BZ-U 10-30-50/110	1.5	1	0.9	0.55

Characteristic anchor load values for TP bracket

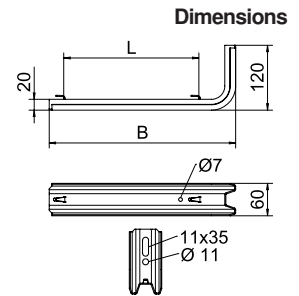
Anchor type	Wall fastening			
	Max. load [kN]			
	Bracket width [mm]			
	145	195	245	345
BZ3 10x90/0-30	1,30	0,93	0,60	0,68



Type	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
TPSAG 145 FS	100	1	30.540	6366015
TPSAG 195 FS	150	1	41.000	6366023
TPSAG 245 FS	200	1	48.000	6366031
TPSAG 345 FS	300	1	61.000	6366066

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.

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



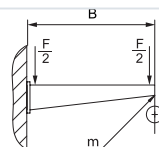
Load diagram, bracket TPSAG

- 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 - wall fastening

Item on test	Force F (SWL)	Width B
TPSA 145 FT	0.15 kN	145 mm
TPSA 195 FT	1 kN	195 mm
TPSA 245 FT	0.950 kN	245 mm
TPSA 345 FT	0.55 kN	345 mm

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).

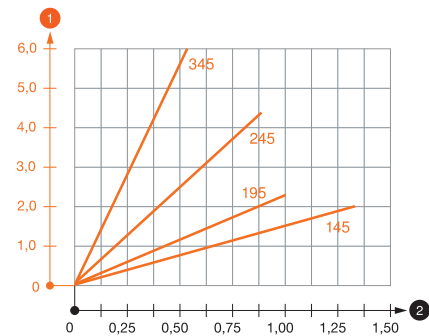


Characteristic anchor load values for TP brackets

Wall fastening				
Anchor type	Max. load F [kN]			
	Bracket width [mm]			
	145	195	245	345
BZ-U 8-30-41/95	1	1.3	0.7	2.4
BZ-U 10-30-50/110	1.5	1	0.9	0.55

Characteristic anchor load values for TP bracket

Wall fastening				
Anchor type	Max. load [kN]			
	Bracket width [mm]			
	145	195	245	345
BZ3 10x90/0-30	1,30	0,93	0,60	0,55



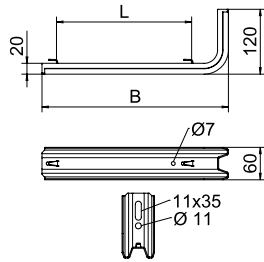
TPSAG TP support/wall and support bracket



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.

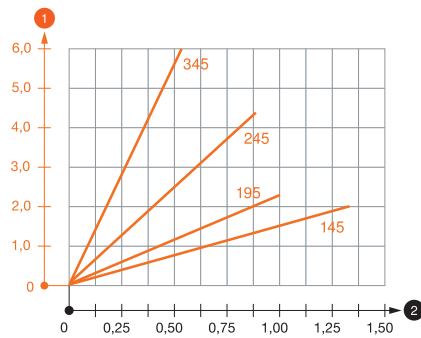
Type	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
TPSAG 145 FT	100	1	33.000	6366131
TPSAG 195 FT	150	1	42.000	6366135
TPSAG 245 FT	200	1	49.000	6366139
TPSAG 345 FT	300	1	65.000	6366143

Dimensions



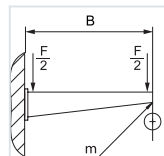
Type	Dim. B mm	Dim. L mm
TPSAG 145 FT	145	50
TPSAG 195 FT	195	100
TPSAG 245 FT	245	150
TPSAG 345 FT	345	250

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 - wall fastening

Item on test	Force F (SWL)	Width B
TPSAG 145 FT	0.15 kN	145 mm
TPSAG 195 FT	1 kN	195 mm
TPSAG 245 FT	0.950 kN	245 mm
TPSAG 345 FT	0.55 kN	345 mm

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).

Characteristic anchor load values for TP brackets

Wall fastening	Max. load F [kN]			
	Bracket width [mm]			
Anchor type	145	195	245	345
BZ-U 8-30-41/95	1	1.3	0.7	2.4
BZ-U 10-30-50/110	1.5	1	0.9	0.55

Characteristic anchor load values for TP bracket

Anchor type	Wall fastening			
	Max. load [kN]			
	Bracket width [mm]			
	145	195	245	345
BZ3 10x90/0-30	1,30	0,93	0,60	0,55

TP wall and ceiling bracket

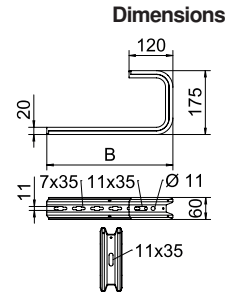
St FS



Type	for width mm	F in kN ceiling	F in kN wall	Pack Piece	Weight kg/100 pc.	Item no.
TPD 145 FS	100	1.3	1.4	1	48.000	6363806
TPD 245 FS	200	0.8	0.87	1	66.000	6363814
TPD 345 FS	300	0.5	0.55	1	78.000	6363822
TPD 445 FS	400	0.35	0.45	1	93.300	6363826
TPD 545 FS	500	0.25	0.35	1	107.000	6363829

Important! If the wall and 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.

Type	Dim. B mm
TPD 145 FS	145
TPD 245 FS	245
TPD 345 FS	345
TPD 445 FS	445
TPD 545 FS	545



Load diagram, ceiling bracket TPD

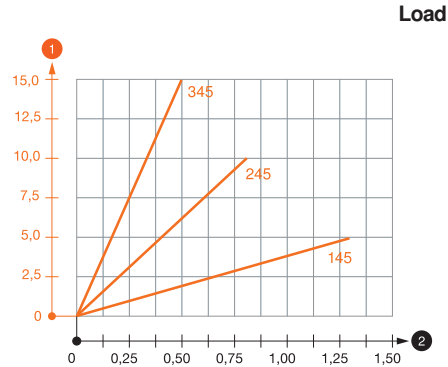
- 1 Bending of the bracket tip at permitted bracket load
- 2 Permitted bracket load in kN without man load
- Load curve with bracket lengths in mm

Characteristic anchor load values for TPD wall and ceiling bracket

		Wall fastening				
		Max. load [kN]				
		Bracket length [mm]				
Anchor type		145	245	345	445	545
BZ3 8x95/0-40		0,56	0,53	0,50	0,47	0,44
BZ3 10x90/0-30		1,03	0,96		0,68	0,54

		Ceiling fastening				
		Max. load [kN]				
		Bracket width [mm]				
Anchor type		145	245	345	445	545
BZ-U 8-30-41/95		1,48	0,93	2,40	0,35	0,25
BZ3 10x90/0-30		1,45	0,93	2,40	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.

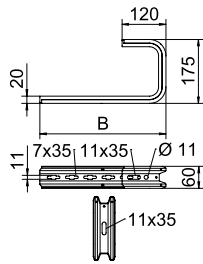




Important! If the wall and ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
Max. side height of the cable support system 60 mm.
TP wall and ceiling bracket for universal structural fastening.

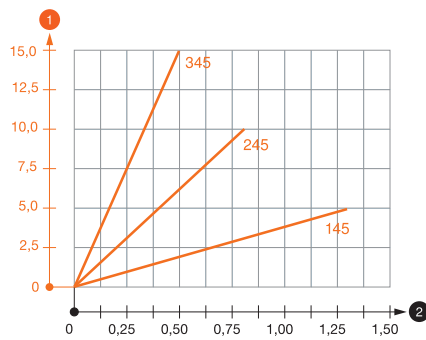
Type	for width mm	F in kN ceiling	F in kN wall	Pack Piece	Weight kg/100 pc.	Item no.
TPD 145 FT	100	1.3	1.4	1	54.000	6363861
TPD 245 FT	200	0.8	0.87	1	69.000	6363865
TPD 345 FT	300	0.5	0.55	1	83.000	6363869

Dimensions



Type	Dim. B mm	Dim. H mm
TPD 145 FT	145	175
TPD 245 FT	245	175
TPD 345 FT	345	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

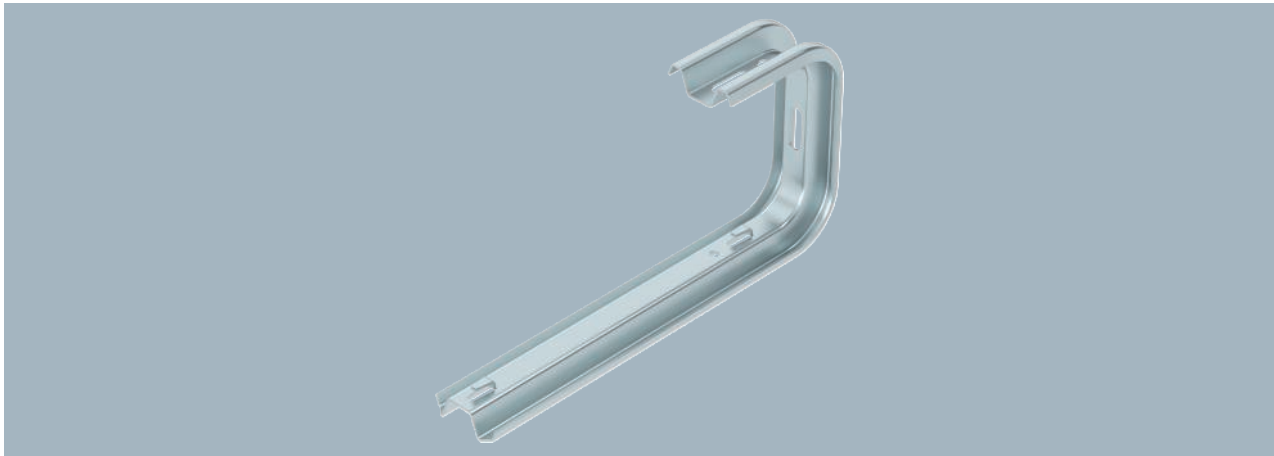
Characteristic anchor load values for TPD wall and ceiling bracket

		Wall fastening					
		Max. load [kN]					
		Bracket length [mm]					
		145	245	345	445	545	
Anchor type	BZ3 8x95/0-40	0,56	0,53	0,50	0,47	0,44	
	BZ3 10x90/0-30	1,03		0,96	0,68	0,54	

		Ceiling fastening				
		Max. load [kN]				
		Bracket width [mm]				
		145	245	345	445	545
Anchor type	BZ-U 8-30-41/95	1,48	0,93	2,40	0,35	0,25
	BZ3 10x90/0-30	1,45	0,93	2,40	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 wall and ceiling bracket

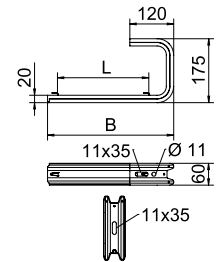


Type	for width mm	F in kN ceiling	F in kN wall	Pack Piece	Weight kg/100 pc.	Item no.
TPDG 145 FS	100	1.3	1.4	6	52.000	6365906
TPDG 195 FS	150	0.95	1.05	6	60.000	6365914
TPDG 245 FS	200	0.8	0.87	5	67.000	6365922
TPDG 345 FS	300	0.5	0.55	5	81.000	6365949

If the wall and ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
 Max. side height of the cable support system 60 mm.
 TP wall and ceiling bracket with clamping lugs for screwless mesh cable tray fastening.

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

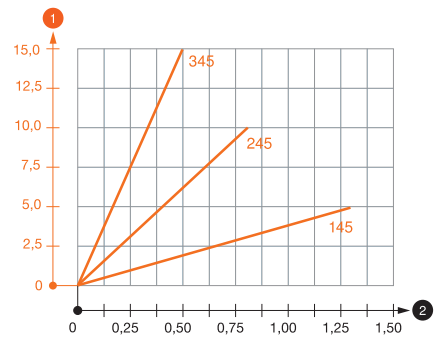
Dimensions



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

Load



Characteristic anchor load values for TPDG wall and ceiling bracket

		Wall fastening				
		Max. load [kN]				
		Bracket length [mm]				
Anchor type		145	245	345	445	545
BZ3 8x95/0-40		0,56	0,53	0,50	0,47	0,44
BZ3 10x90/0-30		1,03	0,96	0,68		0,54

		Ceiling fastening				
		Max. load [kN]				
		Bracket width [mm]				
Anchor type		145	245	345	445	545
BZ-U 8-30-41/95		1,48	0,93	0,50	0,35	0,25
BZ3 10x90/0-30		1,45	0,93	0,50	0,35	0,25

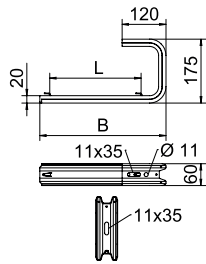
Max. total load F = cable weight + cable tray + ceiling bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25.



If the wall and ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
 Max. side height of the cable support system 60 mm.
 TP wall and ceiling bracket with clamping lugs for screwless mesh cable tray fastening.

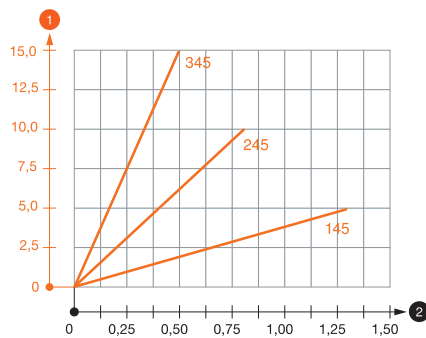
Type	for width mm	F in kN ceiling	F in kN wall	Pack Piece	Weight kg/100 pc.	Item no.
TPDG 145 FT	100	1.3	1.4	6	55.000	6365977
TPDG 245 FT	200	0.8	0.87	5	70.000	6365981
TPDG 345 FT	300	0.5	0.55	5	85.000	6365985

Dimensions



Type	Dim. B mm	Dim. L mm
TPDG 145 FT	145	50
TPDG 245 FT	245	150
TPDG 345 FT	345	250

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

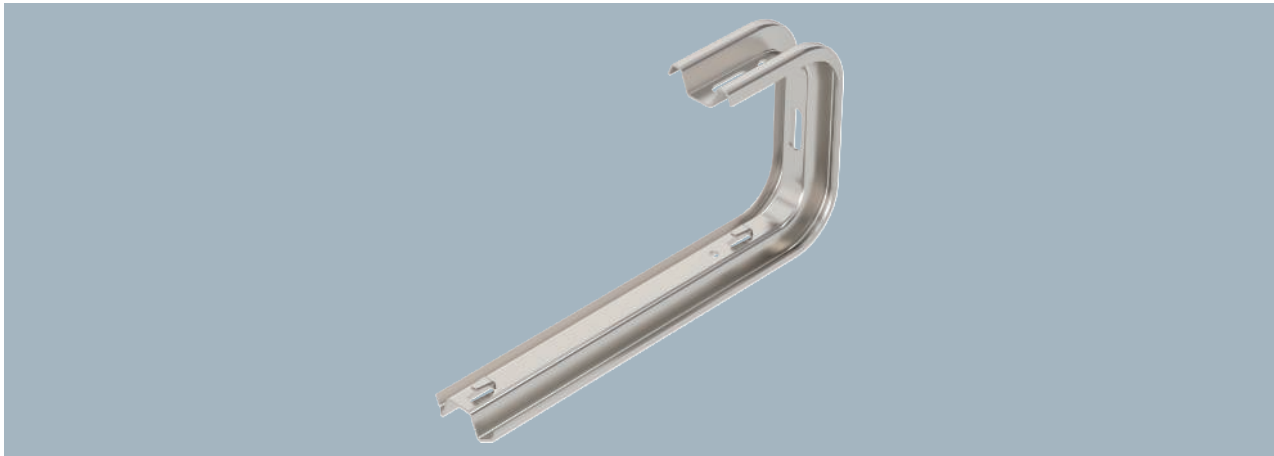
Characteristic anchor load values for TPDG wall and ceiling bracket

		Wall fastening					
		Max. load [kN]					
		Bracket length [mm]					
		145	245	345	445	545	
Anchor type	BZ3 8x95/0-40	0,56	0,53	0,50	0,47	0,44	
	BZ3 10x90/0-30	1,03		0,96	0,68	0,54	

		Ceiling fastening				
		Max. load [kN]				
		Bracket width [mm]				
		145	245	345	445	545
Anchor type	BZ-U 8-30-41/95	1,48	0,93	0,50	0,35	0,25
	BZ3 10x90/0-30	1,45	0,93	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 wall and ceiling bracket

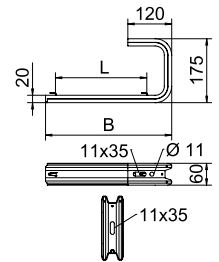


Type	for width mm	F in kN ceiling	F in kN wall	Pack Piece	Weight kg/100 pc.	Item no.
TPDG 145 A2	100	1.3	1.4	6	52.000	6365989
TPDG 195 A2	150	0.95	1.05	6	60.000	6365991
TPDG 245 A2	200	0.8	0.87	5	67.000	6365993
TPDG 345 A2	300	0.5	0.55	5	81.000	6365995

If the wall and ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
 Max. side height of the cable support system 60 mm.
 TP wall and ceiling bracket with clamping lugs for screwless mesh cable tray fastening.

Type	Dim. B mm	Dim. L mm
TPDG 145 A2	145	50
TPDG 195 A2	195	100
TPDG 245 A2	245	150
TPDG 345 A2	345	250

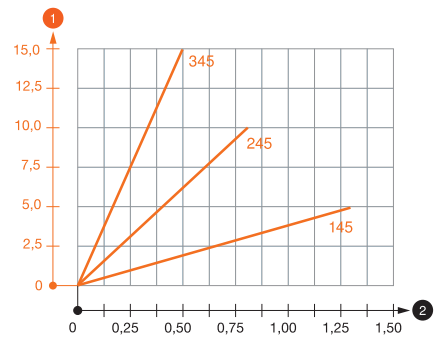
Dimensions



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

Load



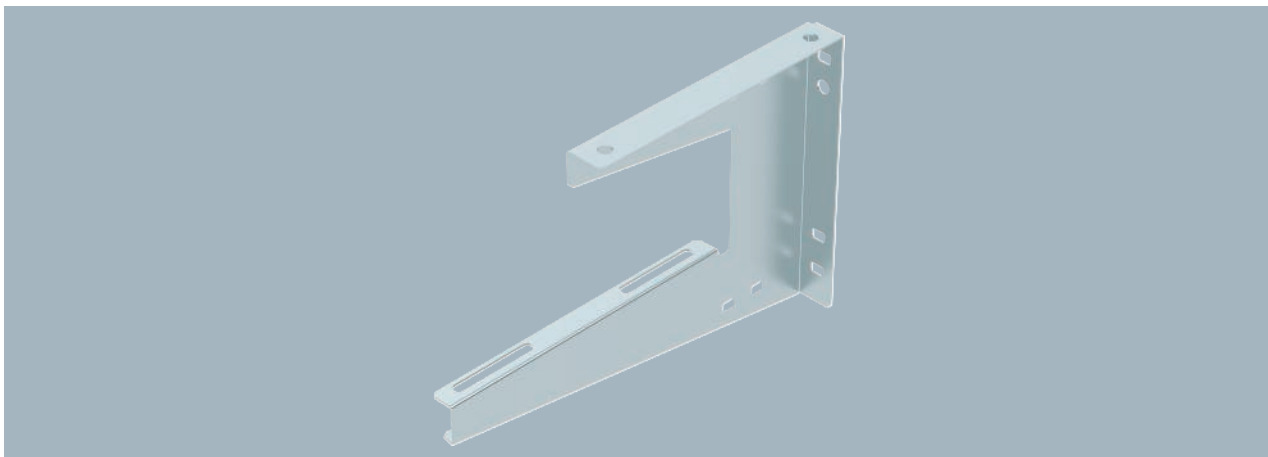
Characteristic anchor load values for TPDG wall and ceiling bracket

		Wall fastening				
		Max. load [kN]				
		Bracket length [mm]				
Anchor type		145	245	345	445	545
BZ3 8x95/0-40		0,56	0,53	0,50	0,47	0,44
BZ3 10x90/0-30		1,03	0,96	0,68		0,54

		Ceiling fastening				
		Max. load [kN]				
		Bracket width [mm]				
Anchor type		145	245	345	445	545
BZ-U 8-30/95		1,48	0,93	0,50	0,35	0,25
BZ3 10x90/0-30		1,45	0,93	0,50	0,35	0,25

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

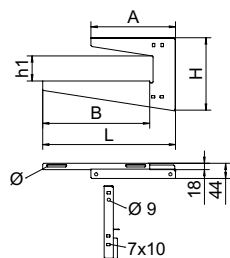
Wall and ceiling bracket



Wall and ceiling bracket for universal structural fastening.

Type	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
WDB L 50 FS	50	1	11.000	6363700
WDB L 100 FS	100	1	15.000	6363702
WDB L 150 FS	150	1	24.000	6363704
WDB L 200 FS	200	1	33.000	6363706
WDB L 300 FS	300	1	52.000	6363708
WDB L 400 FS	400	1	73.000	6363710

Dimensions

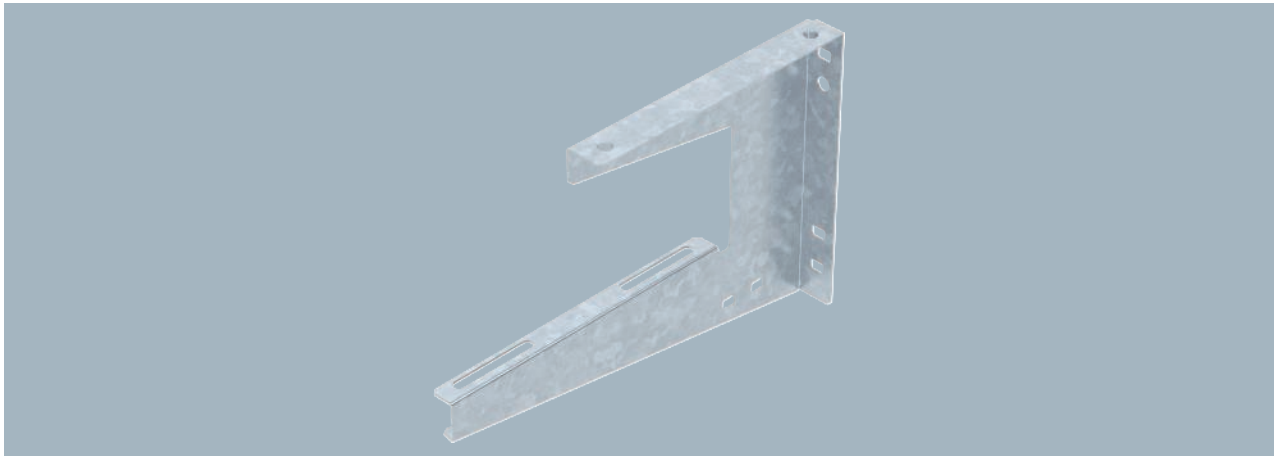


Type	Dim. A mm	Dim. B mm	Dim. H mm	Dim. h1 mm	Dim. L mm
WDB L 50 FS	115	60	170	92	130
WDB L 100 FS	145	110	179	88	185
WDB L 150 FS	170	160	186	84	235
WDB L 200 FS	195	210	194	80	285
WDB L 300 FS	245	310	210	73	385
WDB L 400 FS	300	410	226	65	490

Load

Wall fastening		Max. load [kN]				
		Bracket length [mm]				
Anchor type	50	100	150	200	300	400
BZ-U 8-30-41/95	0.40	0.25	0.22	0.30	0.20	0.12

Wall and ceiling bracket

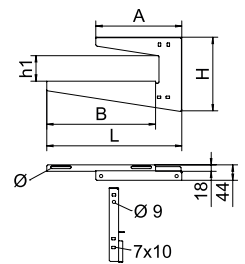


Type	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
WDB L 50 FT	50	1	12.200	6363720
WDB L 100 FT	100	1	17.000	6363722
WDB L 150 FT	150	1	26.000	6363724
WDB L 200 FT	200	1	33.000	6363726
WDB L 300 FT	300	1	28.000	6363728
WDB L 400 FT	400	1	78.000	6363730



Wall and ceiling bracket for universal structural fastening.

Type	Dim. A mm	Dim. B mm	Dim. H mm	Dim. h1 mm	Dim. L mm
WDB L 50 FT	115	60	170	92	130
WDB L 100 FT	145	110	179	88	185
WDB L 150 FT	170	160	186	84	235
WDB L 200 FT	195	210	194	80	285
WDB L 300 FT	245	310	210	73	385
WDB L 400 FT	300	410	226	65	490

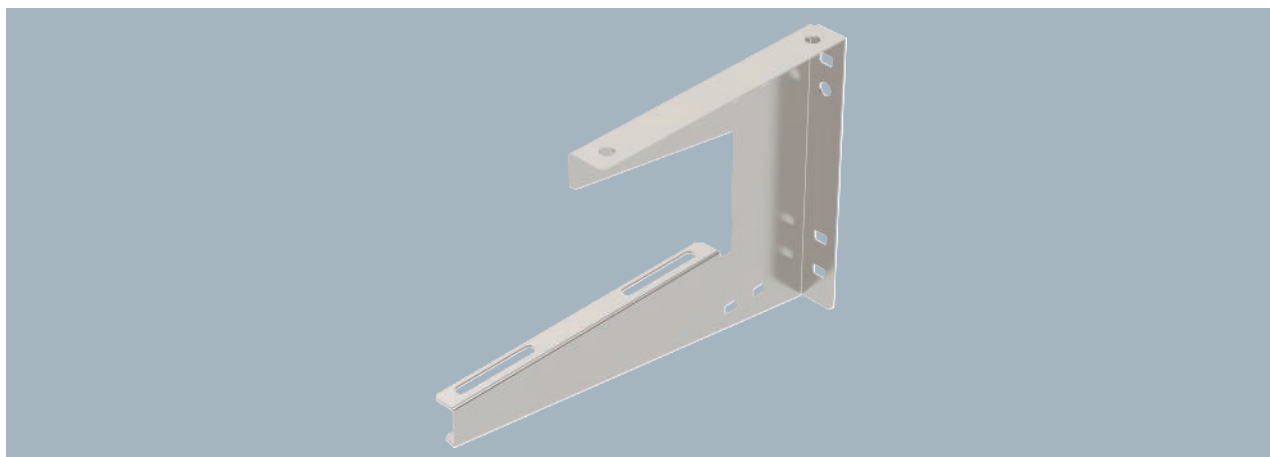
Dimensions



Load

		Wall fastening						
		Max. load [kN]						
		Bracket length [mm]						
Anchor type		50	100	150	200	300	400	
	BZ-U 8-30-41/95	0,40	0,25	0,22	0,30	0,20	0,12	
		Ceiling fastening						
		Max. load [kN]						
		Bracket length [mm]						
Anchor type		50	100	150	200	300	400	
	BZ-U 8-30-41/95	0,40	0,25	0,22	0,30	0,20	0,12	

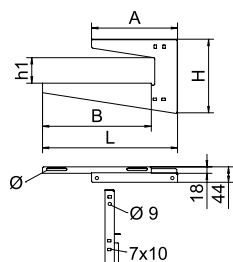
Wall and ceiling bracket



Wall and ceiling clamp for universal structural fastening.

Type	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
WDB L 50 A2	50	1	11.000	6363740
WDB L 100 A2	100	1	15.000	6363742
WDB L 150 A2	150	1	24.000	6363744
WDB L 200 A2	200	1	33.000	6363746
WDB L 300 A2	300	1	52.000	6363748
WDB L 400 A2	400	1	73.000	6363750

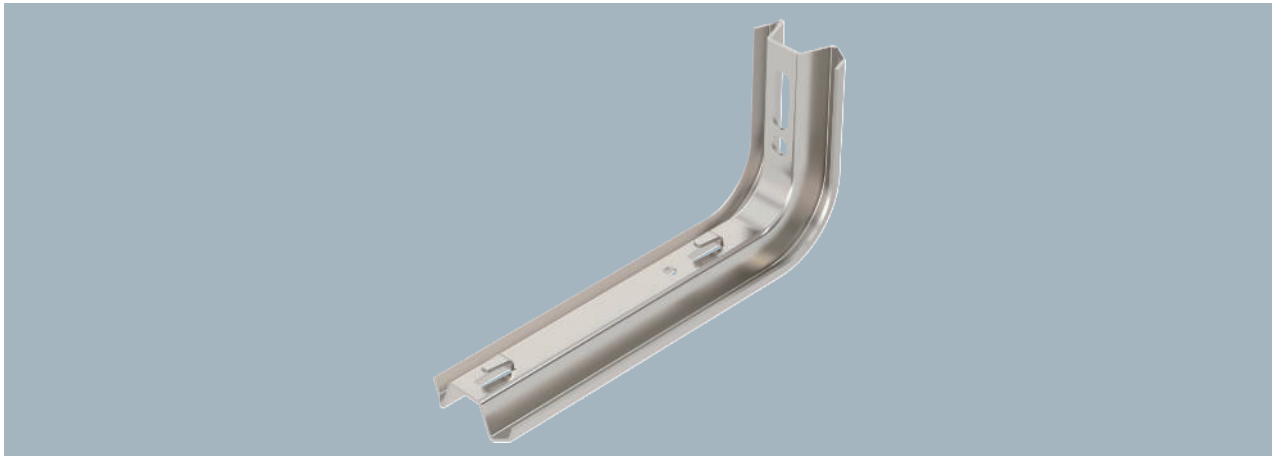
Dimensions



Type	Dim. A mm	Dim. B mm	Dim. H mm	Dim. h1 mm	Dim. L mm
WDB L 50 A2	115	60	170	92	130
WDB L 100 A2	145	110	179	88	185
WDB L 150 A2	170	160	186	84	235
WDB L 200 A2	195	210	194	80	285
WDB L 300 A2	245	310	210	73	385
WDB L 400 A2	300	410	226	65	490

Load

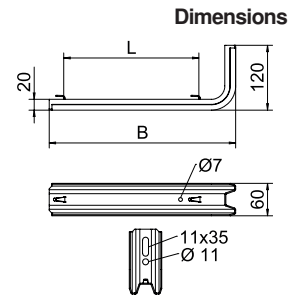
		Wall fastening					
		Max. load [kN]					
		Bracket length [mm]					
Anchor type		50	100	150	200	300	400
BZ-U 8-30-41/95		0,40	0,25	0,22	0,30	0,20	0,12
		Ceiling fastening					
		Max. load [kN]					
		Bracket length [mm]					
Anchor type		50	100	150	200	300	400
BZ-U 8-30-41/95		0,40	0,25	0,22	0,30	0,20	0,12



Type	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
TPSAG 145 A2	100	50	32.000	6366145
TPSAG 195 A2	150	20	40.000	6366146
TPSAG 245 A2	200	20	47.000	6366148
TPSAG 345 A2	300	20	61.000	6366149

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.

Type	Dim. B mm	Dim. L mm
TPSAG 145 A2	145	50
TPSAG 195 A2	195	100
TPSAG 245 A2	245	150
TPSAG 345 A2	345	250



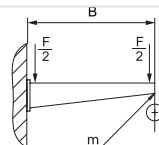
Load diagram, bracket TPSAG

- 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 - wall fastening

Item on test	Force F (SWL)	Width B
TPSA 145 FT	0.15 kN	145 mm
TPSA 195 FT	1 kN	195 mm
TPSA 245 FT	0.950 kN	245 mm
TPSA 345 FT	0.55 kN	345 mm

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).



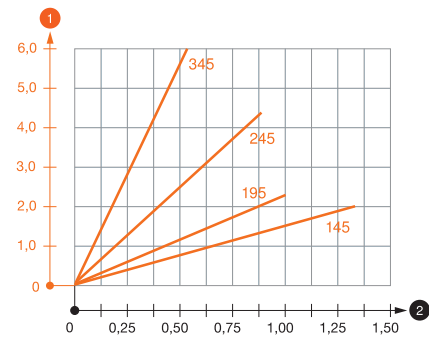
Characteristic anchor load values for TP brackets

Wall fastening	Max. load [kN]			
	Bracket width [mm]			
Anchor type	145	195	245	345
BZ3 10x90/0-30	1.3	0.93	0.60	0.68

Characteristic anchor load values for TP bracket

anchors Approved	Bracket load			
	Max. total load F in kN			
	Bracket length in mm			
F kN	145	245	345	
2.4		1.50	0.90	0.55
4.3		1.50	1.20	0.80

Load

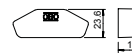


PE

End cap

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
TPS KS OR	Pastel orange	10	0.700	6364625

End cap to cover ends of TP supports.



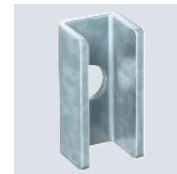
St FS FT

Spacer

Type	Pack Piece	Weight kg/100 pc.	Item no.
DS 4 FS	20	3.390	6416551
DS 4 FT	20	3.800	6416586

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.



A2 2B

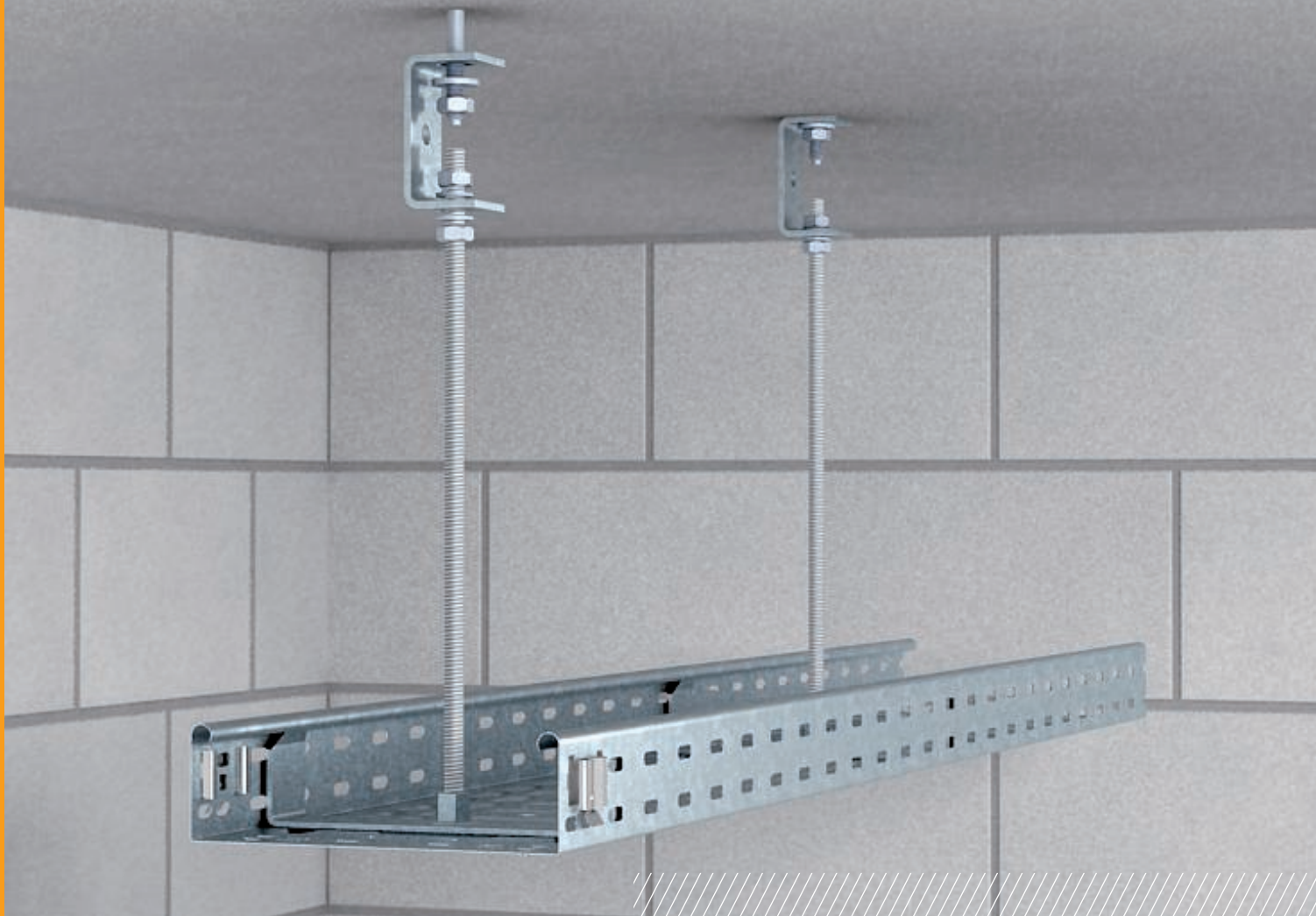
Spacer

Type	Pack Piece	Weight kg/100 pc.	Item no.
DS 4 A2	10	3.700	6416594

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.





Universal systems

Universal systems for cable support structures are used for small loads. Whether the installation is to be a ceiling fastening, wall fastening or a floor stand-off: In the universal systems, you can find functional fastenings with matching system accessories for any application.

- Simple suspension
- Centre suspension
- Suitable for mesh cable trays and cable trays
- Floor mounting
- Matching system accessories



System description



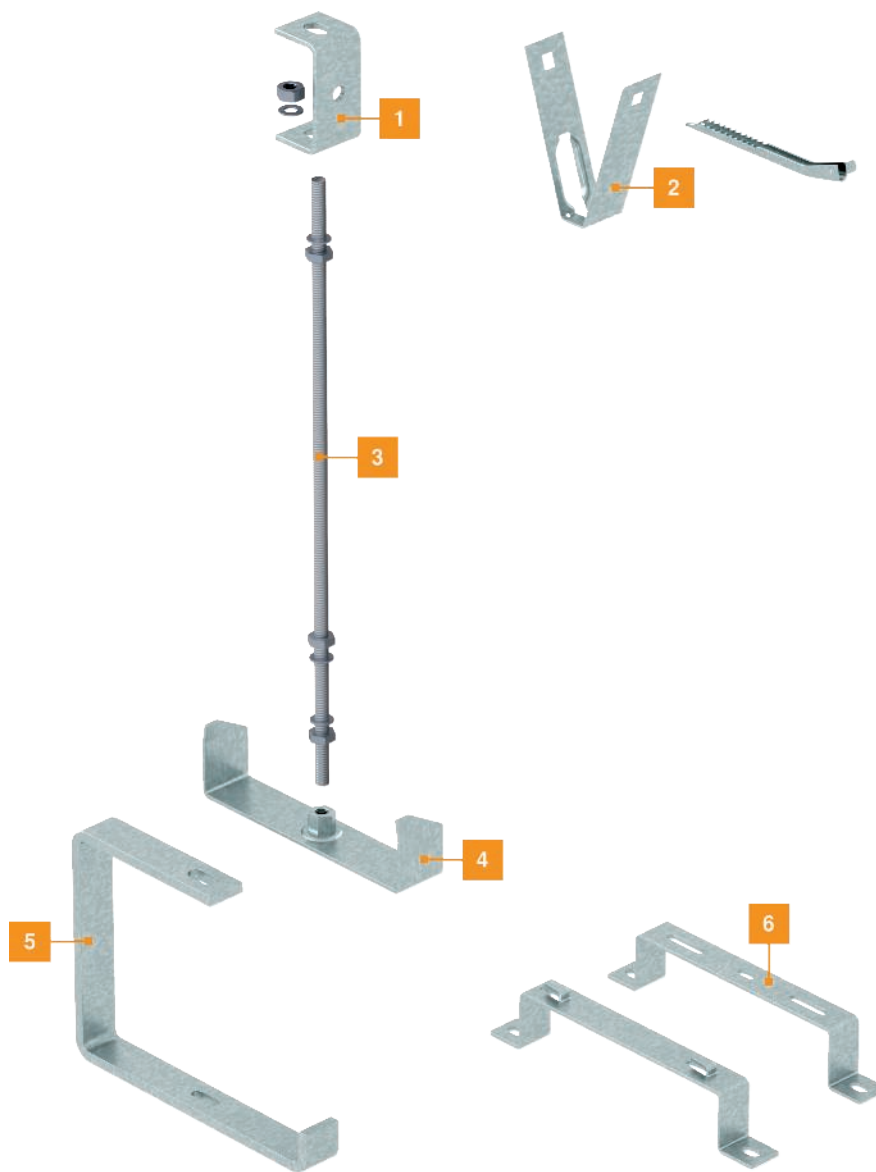
The universal systems are used for small loads. Whether the installation is to be a ceiling fastening, wall fastening or as a floor stand-off: in the Universal systems, you can find functional fittings with matching system accessories for any application.

These suspension systems, which can be called basic installations, include centrally loaded ceiling clamps or

trapezoidal fastenings, which are used with threaded rods and centre suspensions. When using central suspensions, the load should be even on both sides of the system. If an even load cannot be guaranteed, then other systems should be used.

Universal systems

Installation principle



- | | |
|---|-----------------------|
| 1 | Ceiling bracket |
| 2 | Trapezoidal fastening |
| 3 | Threaded rod |
| 4 | Centre suspension |
| 5 | Suspension clamp |
| 6 | Stand-off bracket |

Mounting aid



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



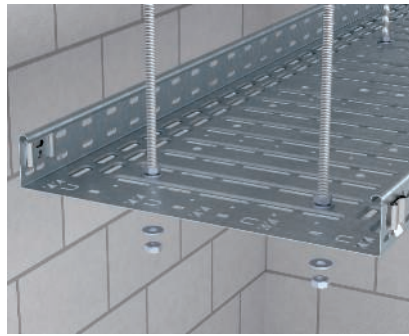
Universal mounting on the ceiling
The variable ceiling bracket, type DBV, allows threaded rod suspensions on straight and sloping ceilings.



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



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



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



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



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



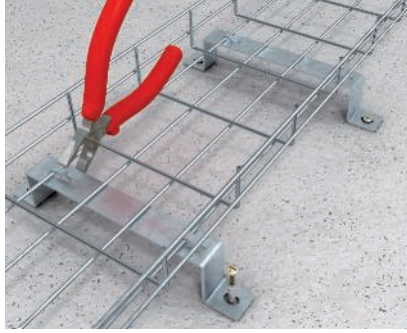
Installation of trapeze suspension
Installation of a cable tray on a trapezoidal ceiling using a ceiling bracket, type TPB 100 and centre suspension, type MAH 60. Maximum cable tray width 300 mm. The trapezoidal fastening is mounted using the lock, type TPB R.



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

**Floor fastening at a distance**

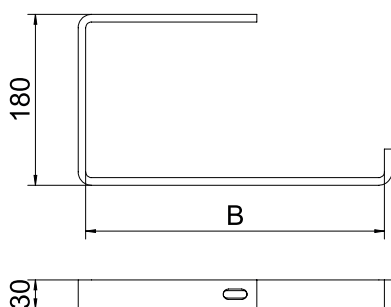
Mounting of a cable tray at a distance using the DBL stand-off bracket. Maximum cable tray width 600 mm.

**Stand-off of mesh cable trays**

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



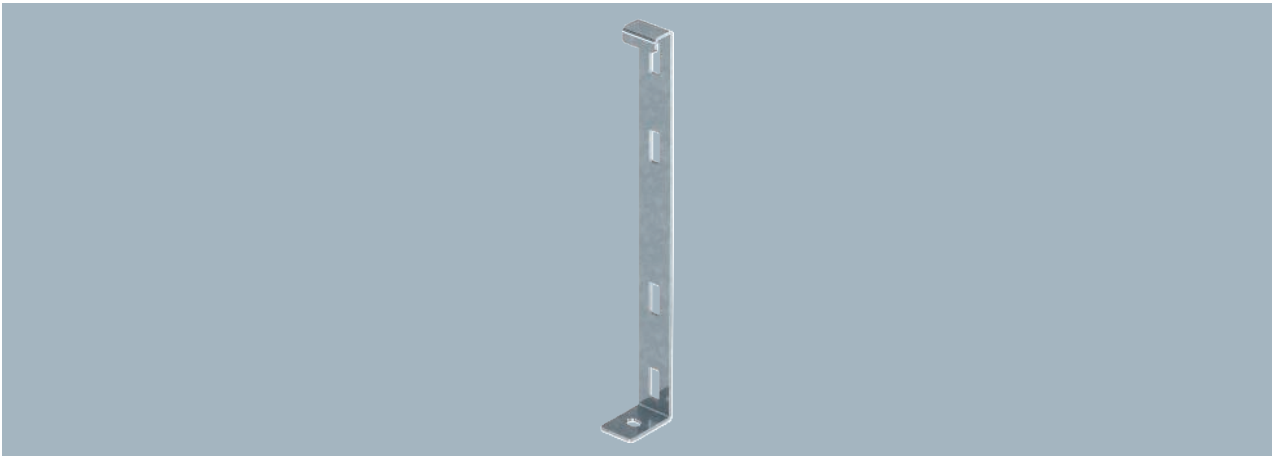
Suspension bracket for cable support systems.



Type	for width mm	Dim. B mm	Hole Ø mm	F in kN ceiling kN	Pack Piece	Weight kg/100 pc.	Item no.
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

Suspension bracket for cable tray and cable ladder

St FT



Type	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
AHB 14 314 FT	314	4	24.900	6363884

Cable trays or cable ladders can be mounted both in a length-wise and a transverse direction beneath previously installed cable sections. Optional mounting in conjunction with C profile rail or U profile.

For the suspension on cable trays and cable ladders with rounded rail top edge.

The statics and the load limit values of the cable supports, on which the additional cable trays or cable ladders are suspended, must be taken into account.

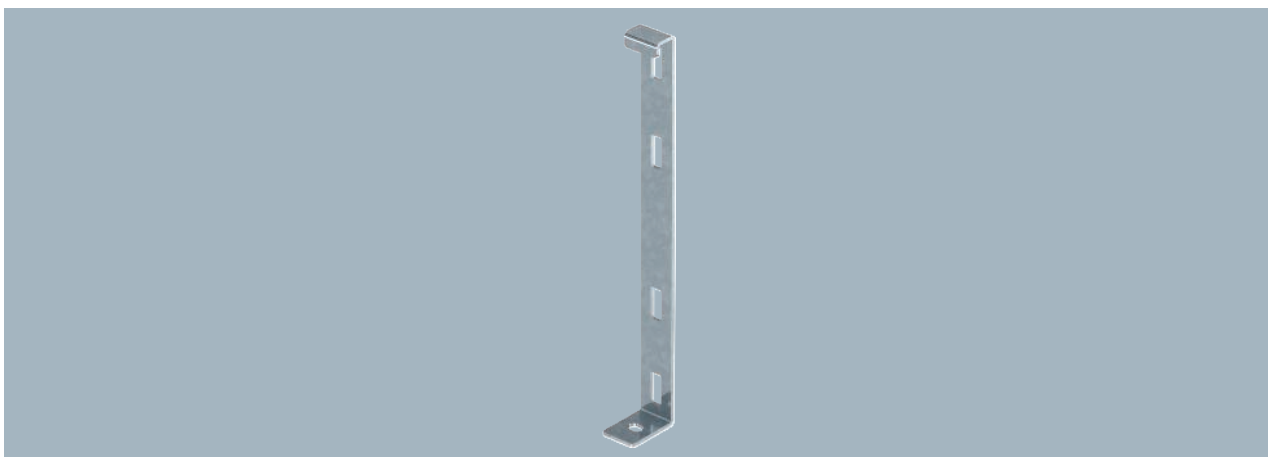
Suspension bracket to suspend cable trays and cable ladders to previously installed cable support systems. Can be used indoors and outdoors.

Dimensions



St FT

Suspension bracket for wide span systems



Cable trays or cable ladders can be mounted both in a length-wise and a transverse direction beneath previously installed wide span systems. Optional mounting in conjunction with C profile rail or U profile.

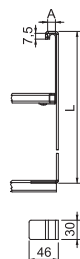
For suspension on wide span cable trays or cable ladders with rectangular rail top edge.

The statics and the load limit values of the cable supports, on which the additional cable trays or cable ladders are suspended, must be taken into account.

Suspension bracket to suspend cable trays and cable ladders to previously installed wide span systems. Can be used indoors and outdoors.

Type	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
AHB 22 314 FT	314	4	25.500	6363886

Dimensions



Centre suspensions

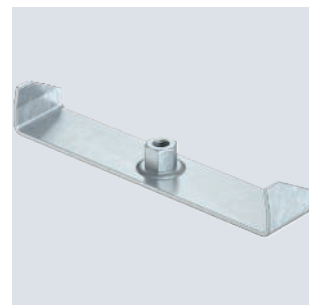
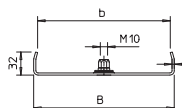
St FS

Centre suspension for cable tray, 35

Type	for width mm	For threaded rod	Dim. B mm	Dim. b mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
MAH 35 100 FS	100	M10	95	84	1.3	1	9.400	6358690
MAH 35 200 FS	200	M10	195	184	0.35	1	18.600	6358692
MAH 35 300 FS	300	M10	295	284	0.2	1	27.700	6358694

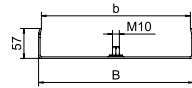
The centre suspension possesses a rotatable M10 threaded sleeve. When filling, ensure an even distribution of the load (avoid one-sided filling).

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



Centre suspension for cable tray, 60

St FS FT



Type	for width mm	For threaded rod	Dim. B mm	Dim. b mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
MAH 60 100 FS	100	M10	94	84	1.3	1	17.250	6358705
MAH 60 150 FS	150	M10	144	134	0.5	1	23.000	6358709
MAH 60 200 FS	200	M10	195	184	0.2	1	24.500	6358713
MAH 60 300 FS	300	M10	295	284	0.2	1	36.700	6358717
MAH 60 400 FS	400	M10	395	384	0.1	1	46.000	6358720
MAH 60 100 FT	100	M10	94	84	1.3	1	18.500	6358752
MAH 60 150 FT	150	M10	144	134	0.5	1	23.000	6358756
MAH 60 200 FT	200	M10	195	184	0.2	1	27.600	6358760
MAH 60 300 FT	300	M10	295	284	0.2	1	36.700	6358764

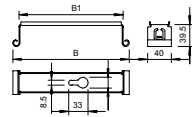
The centre suspension possesses a rotatable M10 threaded sleeve. When filling, ensure an even distribution of the load (avoid one-sided filling).

The widths 100, 150 and 200 mm have additional base perforations, in order to screw the centre suspensions to the tray base when used for the maintenance of electrical functionality according to DIN 4102 Part 12.

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

Centre suspension for cable trays with rolled side rail

St FS

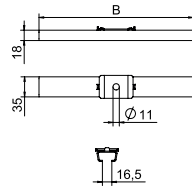


Type	for width mm	Dim. B mm	Dimen-sion B1 mm	Pack Piece	Weight kg/100 pc.	Item no.
MAH 050 FS	50	47	26	1	5.000	6358500
MAH 075 FS	75	72	51	1	6.500	6358510
MAH 100 FS	100	97	76	1	7.500	6358527
MAH 150 FS	150	147	126	1	8.000	6358535
MAH 200 FS	200	197	176	1	12.500	6358543

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

Centre suspension mesh cable tray

St FS

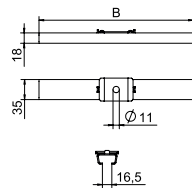


Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 170 FS	170	25	20.000	6015400
GMS 270 FS	270	25	32.000	6015402
GMS 370 FS	370	25	43.000	6015404
GMS 470 FS	470	10	55.000	6015406
GMS 570 FS	570	10	67.000	6015408

Centre suspension including hold-down clamp for mesh cable tray suspensions.

Centre suspension mesh cable tray

VA 2B



Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
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

Centre suspension including hold-down clamp for mesh cable tray suspensions.

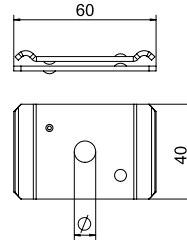
St FS FT

Centre suspension mesh cable tray

Type	Hole Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
GMA M8 FS	9	25	7.270	6015239
GMA M10 FS	11	25	6.830	6015247
GMA M6 FS	7	25	8.000	6015220
GMA M6 FT	7	25	8.400	6015224
GMA M8 FT	9	25	8.300	6015243
GMA M10 FT	11	25	8.400	6015255

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.



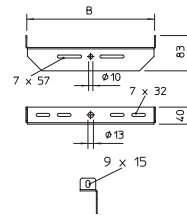
St FS

Centre suspension, universal

Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MAHU 200 FS	200	1	27.500	6358853
MAHU 300 FS	300	1	39.300	6358856
MAHU 400 FS	400	1	68.800	6358860
MAHU 500 FS	500	1	85.800	6358864
MAHU 600 FS	600	1	103.300	6358868

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

Universal centre suspension for fastening to threaded rods and supports.



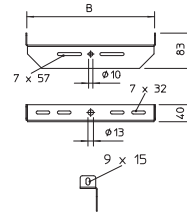
St FT

Centre suspension, universal

Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MAHU 200 FT	200	1	28.700	6358884
MAHU 300 FT	300	1	43.300	6358888
MAHU 400 FT	400	1	71.300	6358892
MAHU 500 FT	500	1	89.100	6358896
MAHU 600 FT	600	1	107.000	6358900

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

Universal centre suspension for fastening to threaded rods and supports.



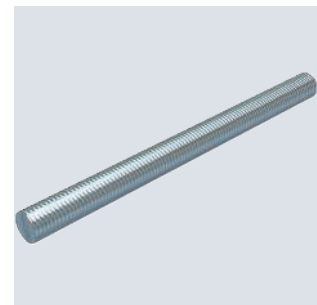
Threaded rods

St G

Threaded rod

Type	Thread	Dim. d mm	Dim. L mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TR M6 1M G	M6	6	1000	8.04	10	18.300	3141047
TR M8 1M G	M8	8	1000	14.6	10	30.000	3141128
TR M10 1M G	M10	10	1000	23.2	10	49.000	3141209
TR M12 1M G	M12	12	1000	33.7	10	62.000	3141306
TR M6 2M G	M6	6	2000	8.04	10	36.600	3141048
TR M8 2M G	M8	8	2000	14.6	10	60.000	3141136
TR M10 2M G	M10	10	2000	23.2	10	98.000	3141140
TR M12 2M G	M12	12	2000	33.7	10	140.000	3141144
TR M10 3M G	M10	10	3000	23.2	20	147.000	3141233

Threaded rod to DIN 976.



Threaded rod

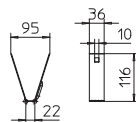


Type	Thread	Dim. d mm	Dim. L mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TR M6 1M A2	M6	6	1000	19.78	10	18.300	3141327
TR M8 1M A2	M8	8	1000	35.17	10	30.000	3141310
TR M10 1M A2	M10	10	1000	54.95	10	49.000	3141312
TR M12 1M A2	M12	12	1000	79.13	10	70.000	3141314
TR M6 2M A2	M6	6	2000	19.78	10	36.600	3141328
TR M8 2M A2	M8	8	2000	35.17	10	60.000	3141330
TR M10 2M A2	M10	10	2000	54.95	10	98.000	3141339
TR M6 1M A4	M6	6	1000	22.61	1	18.300	3141482
TR M8 1M A4	M8	8	1000	40.19	1	30.000	3141492
TR M10 1M A4	M10	10	1000	62.8	1	49.000	3141502
TR M6 2M A4	M6	6	2000	22.61	1	36.600	3141484
TR M8 2M A4	M8	8	2000	40.19	1	60.000	3141494

Threaded rod to DIN 976.

Trapezoidal fastening

Ceiling bracket, trapezoidal



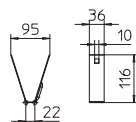
Type	Material thickness mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB 100 FS	1.5	0.8	20	9.900	6357506

Important: Observe the statics of the trapezoidal metal ceiling.

Trapezoidal fastening for suspended mounting of cable support systems on standard trapezoidal ceilings.

When using the holes provided, the trapezoidal fastening can be mounted onto a trapezoidal profile width of up to approx. 80 mm. Fastening takes place with the type TPB R lock or a hexagonal bolt of type SKS 10x110.

Ceiling bracket, trapezoidal



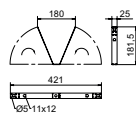
Type	Material thickness mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB 100 A2	1.5	0.8	20	9.900	6357516

Important: Observe the statics of the trapezoidal metal ceiling.

Trapezoidal fastening for suspended mounting of cable support systems on standard trapezoidal ceilings.

When using the holes provided, the trapezoidal fastening can be mounted onto a trapezoidal profile width of up to approx. 80 mm. Fastening takes place with the type TPB R lock or a hexagonal bolt of type SKS 10x110.

Trapezoidal fastening

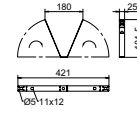


Type	Material thickness mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB 180 FS	1.5	0.8	20	11.400	6357522

A2 2B

Trapezoidal fastening

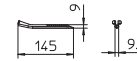
Type	Material thickness mm	Break load F in kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB 180 A2	1.5	0.8	20	11.400	6357524



St FS

Splint for trapezoidal ceiling bracket

Type	Material thickness mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB R FS	1.5	0.8	20	3.100	6357536

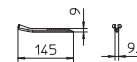


Important: Observe the statics of the trapezoidal metal ceiling.
Splint for fastening and securing the ceiling bracket to trapezoidal ceilings.

A2 2B

Splint for trapezoidal ceiling bracket

Type	Material thickness mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB R A2	1.5	0.8	20	3.100	6357538



Important: Observe the statics of the trapezoidal metal ceiling.
Splint for fastening and securing the ceiling bracket to trapezoidal ceilings.

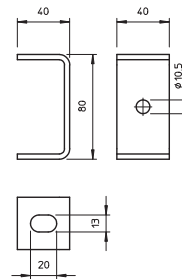
Bracket

St FT

Ceiling bracket

Type	Pack Piece	Weight kg/100 pc.	Item no.
DB FT	20	16.000	6356109

Ceiling bracket for threaded rod suspension.

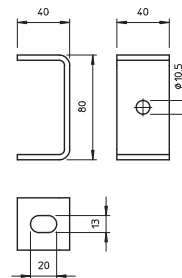


A4 2B

Ceiling bracket

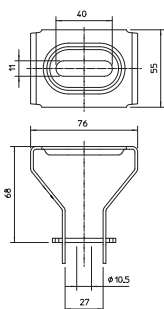
Type	Pack Piece	Weight kg/100 pc.	Item no.
DB A4	10	16.000	6356113

Ceiling bracket for threaded rod suspension.



Ceiling clamp, variable

St FS



Type

DBV FS

Pack Weight
Piece kg/100 pc.

20 18.200

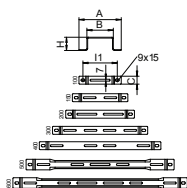
Item no.

6356055

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.

Stand-off bracket

St FS FT

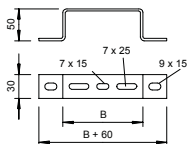


Type	Dim. A mm	Dim. B mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
DBL 50 100 FS	160	100	50	20	15.500	6015506
DBL 50 150 FS	210	150	50	20	18.800	6015514
DBL 50 200 FS	260	200	50	20	21.000	6015522
DBL 50 300 FS	360	300	50	20	36.900	6015530
DBL 50 400 FS	460	400	50	20	46.300	6015549
DBL 50 500 FS	560	500	50	25	57.200	6015552
DBL 50 600 FS	660	600	50	20	65.800	6015555
DBL 50 100 FT	160	100	50	20	16.000	6015565
DBL 50 150 FT	210	150	50	20	19.400	6015573
DBL 50 200 FT	260	200	50	20	22.000	6015581
DBL 50 300 FT	360	300	50	20	38.000	6015603
DBL 50 400 FT	460	400	50	20	47.700	6015611
DBL 50 500 FT	560	500	50	25	58.900	6015614
DBL 50 600 FT	660	600	50	20	67.800	6015617

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

Stand-off bracket

A4 2B



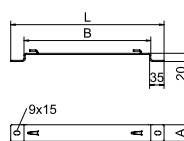
Type	Dim. A mm	Dim. B mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
DBL 50 100 A4	160	100	50	10	15.500	6015630
DBL 50 200 A4	260	200	50	10	22.800	6015632
DBL 50 300 A4	360	300	50	10	36.900	6015633
DBL 50 400 A4	460	400	50	10	46.300	6015634

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

St FS FT

Stand-off bracket

Type	Height mm	Dim.			Pack Piece	Weight kg/100 pc.	Item no.
		A mm	B mm	L mm			
DBLG 20 050 FS	20	30	56	120	20	10.300	6015646
DBLG 20 100 FS	20	30	106	170	20	12.076	6015654
DBLG 20 150 FS	20	30	156	220	20	17.400	6015658
DBLG 20 200 FS	20	30	206	270	20	20.900	6015662
DBLG 20 300 FS	20	40	306	370	20	37.300	6015670
DBLG 20 400 FS	20	40	406	470	20	46.700	6015689
DBLG 20 500 FS	20	40	506	570	25	56.900	6015693
DBLG 20 600 FS	20	40	606	670	25	66.400	6015697
DBLG 20 050 FT	20	30	56	120	20	10.700	6015648
DBLG 20 100 FT	20	30	106	170	20	14.300	6015656
DBLG 20 200 FT	20	30	206	270	20	21.700	6015664
DBLG 20 300 FT	20	40	306	370	20	38.800	6015672
DBLG 20 400 FT	20	40	406	470	20	48.600	6015691
DBLG 20 500 FT	20	40	506	570	25	54.702	6015695
DBLG 20 600 FT	20	40	606	670	25	69.100	6015699
DBLG 20 150 FT	20	30	156	220	20	18.100	6015660



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.

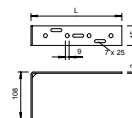
GRM mesh cable tray types with side heights of 35, 55 and 105 mm can be mounted onto the stand-off bracket.

Bracket

St FS

Wall bracket WW

Type	Dim.		Pack Piece	Weight kg/100 pc.	Item no.
	L mm	F in kN kN			
WW 100 15 FS	158	0.12	25	25.000	6015360
WW 100 20 FS	208	0.09	25	30.000	6015379



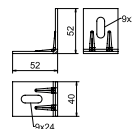
Wall bracket for fastening to masonry and concrete to accept low loads.

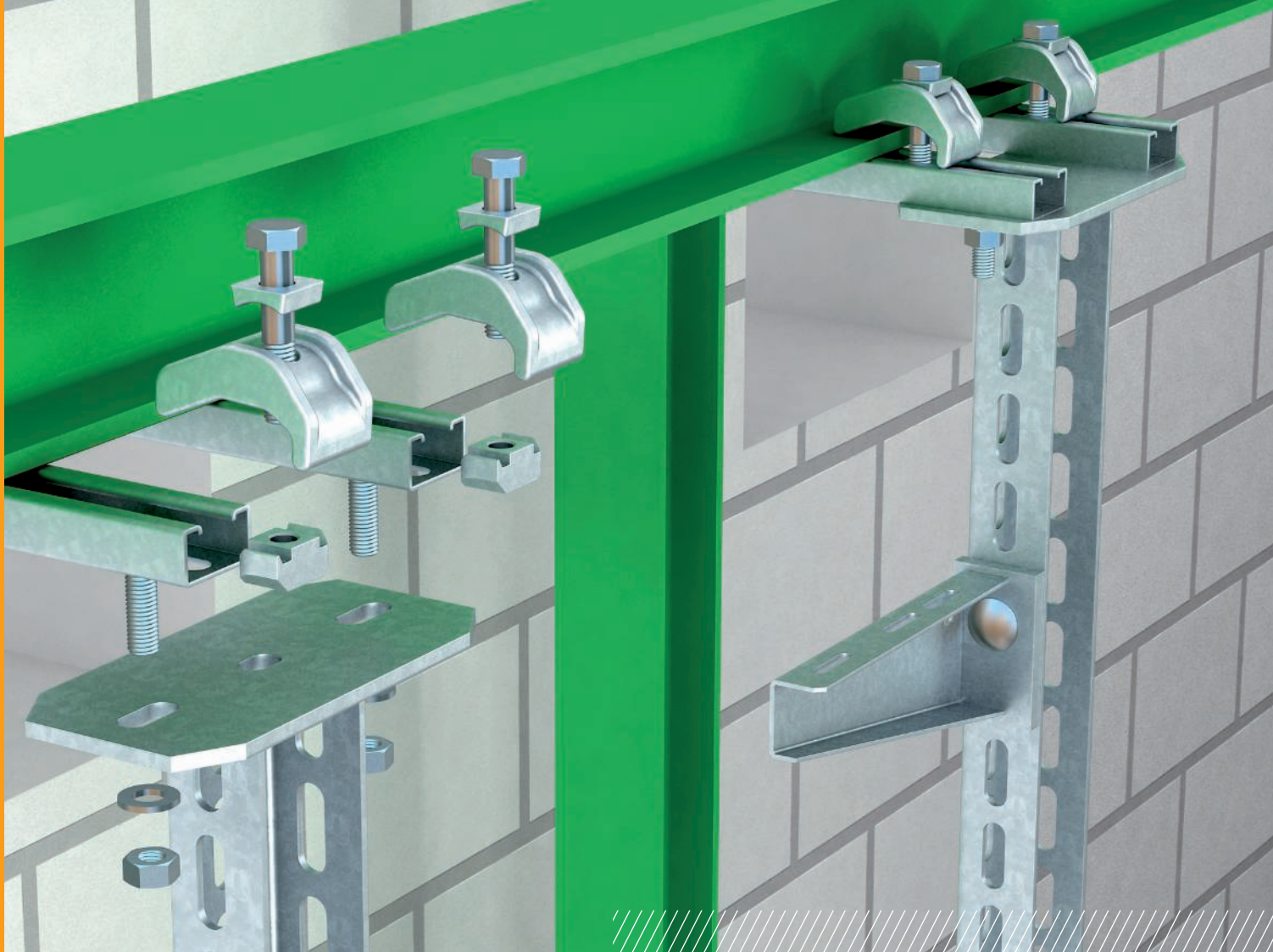
A2 2B

Ceiling bracket K6

Type	Pack Piece	Weight kg/100 pc.	Item no.
K 6 101 A2	20	7.000	6016391

Ceiling bracket for universal fixing to ceiling and wall, or on suspension profile type AP 45.





Beam clamp systems

The beam clamp systems with reduced installation times and work are a clear argument for the use of this system in all areas of professional electrical installations. The beam clamp can be attached without difficult, often unpermitted, drilling. The load range runs from light-duty clamping angles to heavy-duty chuck jaws.

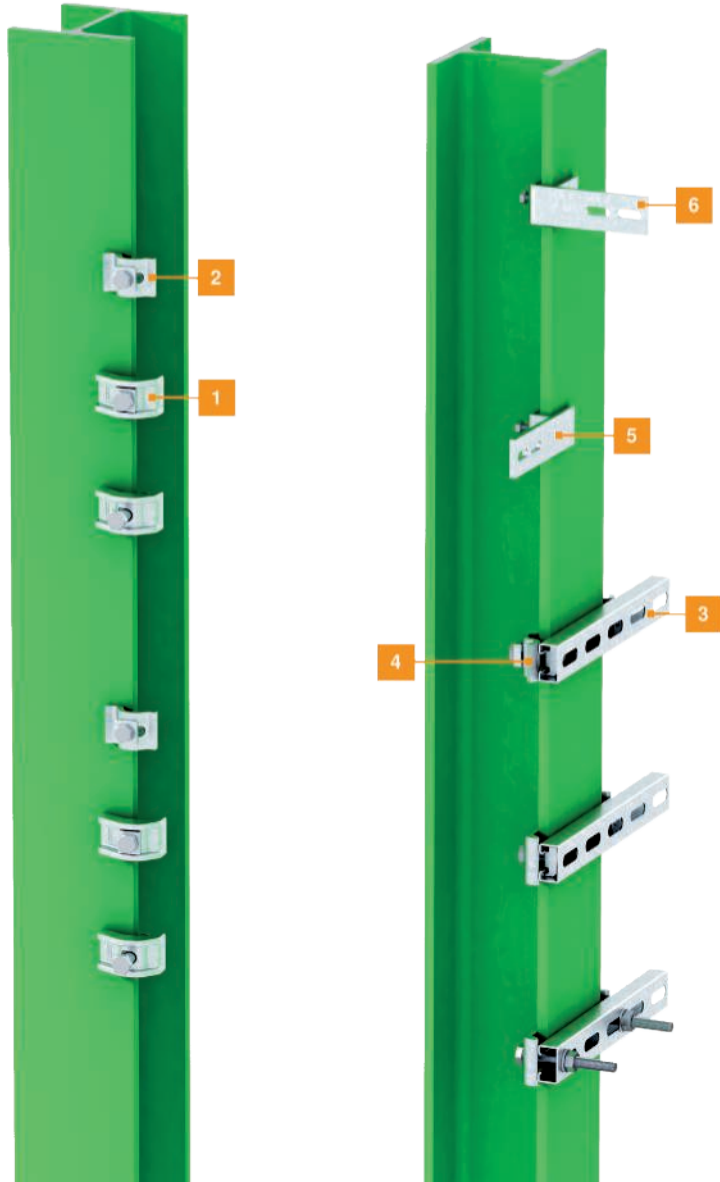
Large support spacings possible

Infinite height adjustment



Beam clamp systems

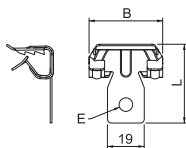
Installation principle



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

Beam clamp, with fastening hole

St ZL

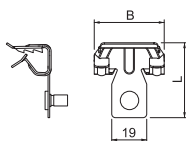


Type	Flange thickness mm	Fastening hole mm	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCVH 2-4	2-4	6.5	450	100	1.350	1483601
BCVH 4-8	4-8	6.5	950	100	1.660	1483603
BCVH 8-14	8-14	6.5	950	100	1.800	1483605
BCVH 14-20	14-20	6.5	950	100	1.950	1483607

Beam clamp for knocking in with fastening hole as individual fastening solution on the beam.

Beam clamp, with threaded bolt

St ZL

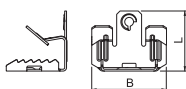
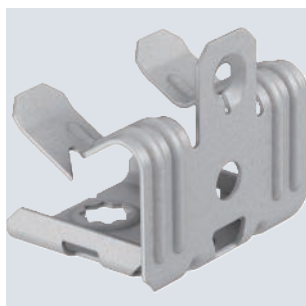


Type	Flange thickness mm	Thread	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCVTB 2-4 M6	2-4	M6x9mm	450	100	0.900	1483611
BCVTB 4-8 M6	4-8	M6x9mm	450	100	1.600	1483613
BCVTB 8-14 M6	8-14	M6x9mm	450	100	1.800	1483615
BCVTB 14-20 M6	14-20	M6x9mm	450	100	2.000	1483617

Beam clamp for knocking in with threaded bolt as individual fastening solution on the beam.

Beam clamp, with female thread

St ZL

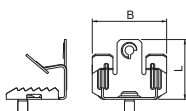
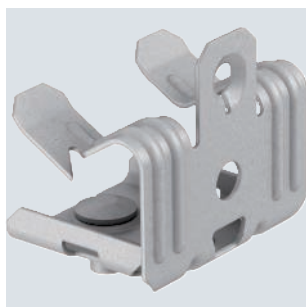


Type	Flange thickness mm	Thread	Fastening hole mm	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCUIT 3-7 M6	3-7	M6	7	350	100	2.100	1483621
BCUIT 8-12,5 M6	8-12	M6	7	500	100	2.450	1483623
BCUIT 14-20 M6	14-20	M6	7	500	100	2.700	1483625

Beam clamp for knocking in with internal thread as individual fastening solution on the beam.

Beam clamp, with threaded bolt

St ZL



Type	Flange thickness mm	Thread	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCUTB 3-7 M6	3-7	M6x9mm	350	100	2.850	1483631
BCUTB 8-12,5 M6	8-12.5	M6x9mm	500	100	2.900	1483633
BCUTB 14-20 M6	14-20	M6x9mm	500	100	3.200	1483635

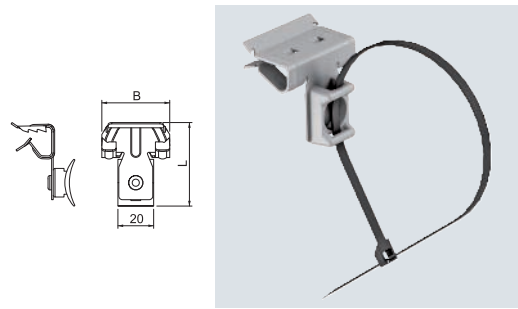
Beam clamp for knocking in with threaded bolt as individual fastening solution on the beam.

St ZL

Beam clamp, with cable tie

Type	Flange thickness mm	Cable strip length mm	Max. D Ø	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCCT 2-4 L240	2-4	240	70	220	50	1.600	1483641
BCCT 4-8 L240	4-8	240	70	220	50	1.900	1483643
BCCT 4-8 L365	4-8	365	110	220	50	2.000	1483645
BCCT 8-14 L240	8-14	240	70	220	50	2.100	1483647
BCCT 8-14 L365	8-14	365	110	220	50	2.200	1483649
BCCT 14-20 L240	14-20	240	70	220	50	2.250	1483651
BCCT 14-20 L365	14-20	365	110	220	50	2.250	1483653

Beam clamp for knocking in with cable tie as individual fastening solution on the support.

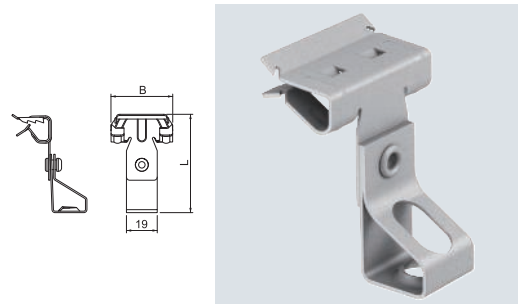


St ZL

Beam clamp, for threaded rod

Type	Flange thickness mm	Thread	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCTR 4-8 M6	4-8	M6	650	50	3.100	1483661
BCTR 8-14 M6	8-14	M6	650	50	3.300	1483663
BCTR 4-8 M8	4-8	M8	700	50	3.100	1483665
BCTR 8-14 M8	8-14	M8	700	50	3.100	1483667
BCTR 4-8 M10	4-8	M10	750	50	3.100	1483669
BCTR 8-14 M10	8-14	M10	750	50	3.200	1483671

Beam clamp for knocking in with threaded rod seat as individual fastening solution on the beam.

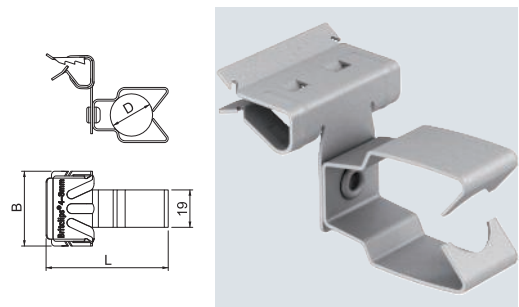


St ZL

Beam clamp, for pipes

Type	Flange thickness mm	Pipe size D mm	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCHPO 2-4 D20	2-4	20	110	50	2.950	1483811
BCHPO 2-4 D25	2-4	25	110	50	2.000	1483813
BCHPO 2-4 D32	2-4	32	110	50	2.400	1483815
BCHPO 4-8 D20	4-8	20	110	50	3.000	1483821
BCHPO 4-8 D25	4-8	25	110	50	3.200	1483823
BCHPO 4-8 D32	4-8	32	110	50	3.000	1483825
BCHPO 8-14 D20	8-14	20	110	50	3.200	1483831
BCHPO 8-14 D25	8-14	25	110	50	3.100	1483833
BCHPO 8-14 D32	8-14	32	110	50	3.300	1483835
BCHPO 14-20 D20	14-20	20	110	50	3.200	1483841
BCHPO 14-20 D25	14-20	25	110	50	3.100	1483843
BCHPO 14-20 D32	14-20	32	110	50	3.300	1483845

Beam clamp for knocking in with open pipe seat as individual fastening solution on the beam.

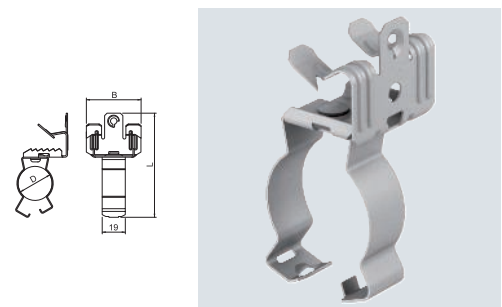


St ZL

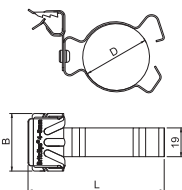
Beam clamp, for pipes

Type	Flange thickness mm	Clamping range D mm	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCVPC 3-7 D20	3-7	19-22	350	50	4.100	1483781
BCVPC 3-7 D25	3-7	23-25	450	50	4.500	1483783
BCVPC 3-7 D32	3-7	26-32	450	50	4.700	1483785
BCVPC 3-7 D40	3-7	33-40	450	50	5.600	1483787
BCVPC 8-12,5 D20	8-12,5	19-22	350	50	4.200	1483791
BCVPC 8-12,5 D25	8-12,5	23-25	450	50	4.700	1483793
BCVPC 8-12,5 D32	8-12,5	26-32	450	50	4.900	1483795
BCVPC 8-12,5 D40	8-12,5	33-40	450	50	5.800	1483797
BCVPC 14-20 D20	14-20	19-22	350	50	4.600	1483801
BCVPC 14-20 D25	14-20	23-25	450	50	5.200	1483803
BCVPC 14-20 D32	14-20	26-32	450	50	5.400	1483805
BCVPC 14-20 D40	14-20	33-40	450	50	6.300	1483807

Beam clamp for knocking in with closed pipe seat as individual fastening solution on the beam.



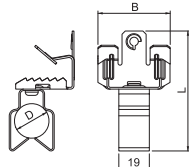
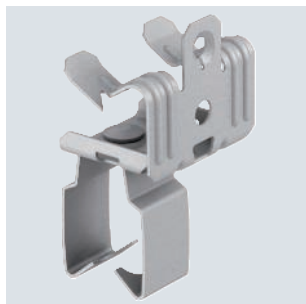
Beam clamp, for pipes



Type	Flange thickness mm	Clamping range D mm	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCHPC 2-4 D20	2-4	18-24	450	50	2.900	1483681
BCHPC 2-4 D25	2-4	22-26	450	50	3.200	1483683
BCHPC 2-4 D32	2-4	30-32	450	50	3.850	1483685
BCHPC 4-8 D20	4-8	18-24	450	50	3.400	1483687
BCHPC 4-8 D25	4-8	22-26	450	50	3.600	1483689
BCHPC 4-8 D32	4-8	30-32	450	50	3.900	1483691
BCHPC 4-8 D40	4-8	36-40	450	50	4.800	1483693
BCHPC 8-14 D20	8-14	18-24	450	50	3.800	1483701
BCHPC 8-14 D25	8-14	22-26	450	50	3.800	1483703
BCHPC 8-14 D32	8-14	30-32	450	50	4.200	1483705
BCHPC 8-14 D40	8-14	36-40	450	50	4.500	1483707
BCHPC 14-20 D20	14-20	18-24	450	50	3.500	1483711
BCHPC 14-20 D25	14-20	22-26	450	50	4.100	1483713
BCHPC 14-20 D32	14-20	30-32	450	50	4.700	1483715
BCHPC 14-20 D40	14-20	36-40	450	50	5.600	1483717

Beam clamp for knocking in with closed pipe seat as individual fastening solution on the beam.

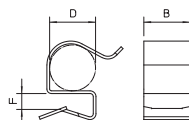
Beam clamp, for pipes



Type	Flange thickness mm	Pipe size D mm	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCVPO 3-7 D20	3-7	20	110	50	3.400	1483751
BCVPO 3-7 D25	3-7	25	110	50	3.500	1483753
BCVPO 3-7 D32	3-7	32	110	50	3.800	1483757
BCVPO 8-12,5 D20	8-12,5	20	110	50	4.100	1483761
BCVPO 8-12,5 D25	8-12,5	25	110	50	4.100	1483763
BCVPO 8-12,5 D32	8-12,5	32	110	50	4.100	1483765
BCVPO 14-20 D20	14-20	20	110	50	4.000	1483771
BCVPO 14-20 D25	14-20	25	110	50	4.250	1483773
BCVPO 14-20 D32	14-20	32	110	50	4.300	1483775

Beam clamp for knocking in with open pipe seat as individual fastening solution on the beam.

Beam clamp, for pipes



Type	Flange thickness mm	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BCC 2-4 D5,5	2-4	4,5-5,5	100	0.400	1483901
BCC 2-4 D7	2-4	6-7	100	0.400	1483903
BCC 2-4 D9	2-4	7-9	100	0.450	1483905
BCC 2-4 D11	2-4	10-12	100	0.500	1483907
BCC 2-4 D14	2-4	12-14	100	0.550	1483911
BCC 2-4 D18	2-4	15-18	100	0.700	1483915
BCC 2-4 D24	2-4	19-24	100	0.800	1483919
BCC 2-4 D30	2-4	25-30	100	0.900	1483923
BCC 4-7 D5,5	4-7	4,5-5,5	100	0.500	1483931
BCC 4-7 D7	4-7	6-7	100	0.550	1483933
BCC 4-7 D9	4-7	7-9	100	0.600	1483935
BCC 4-7 D11	4-7	10-11	100	0.700	1483937
BCC 4-7 D14	4-7	12-14	100	0.700	1483941
BCC 4-7 D18	4-7	15-18	100	0.800	1483945
BCC 4-7 D24	4-7	19-24	100	0.900	1483951
BCC 4-7 D30	4-7	25-30	100	1.100	1483955
BCC 8-12 D5,5	8-12	4,5-5,5	100	0.500	1483960
BCC 8-12 D7	8-12	6-7	100	0.600	1483961
BCC 8-12 D9	8-12	7-9	100	0.700	1483963
BCC 8-12 D11	8-12	10-11	100	0.700	1483965
BCC 8-12 D14	8-12	12-14	100	0.800	1483969
BCC 8-12 D18	8-12	15-18	100	0.900	1483973
BCC 8-12 D24	8-12	19-24	100	1.100	1483977
BCC 8-12 D30	8-12	25-30	100	1.100	1483981

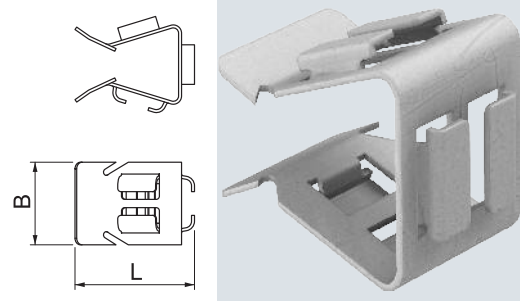
Beam clamp for knocking in for cables as individual fastening solution on the beam.

St ZL

Beam clamp, for pipes

Type	Flange thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
BCCA	12-20	100	1.700	1483999

Beam clamp adapter for knocking in. Seat for BCC beam clamps for flange thicknesses of 2-4 mm.

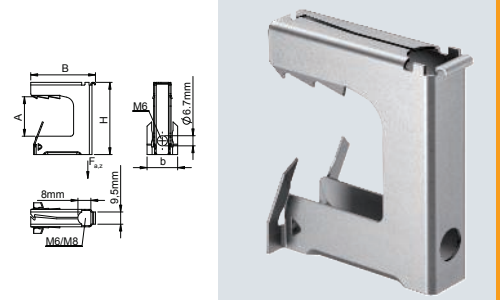


St ZDM

Beam clamp, multifunctional

Type	Flange thickness mm	Height mm	Width mm	Dim. A mm	Dim. B mm	Dim. H mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TK MULTI 8	2-8	30	30	8	30	30	1.2	100	0.100	1485140
TK MULTI 16	8-16	38	32	16	32	38	1.2	100	0.120	1485144
TK MULTI 24	16-24	48	42	24	42	48	1.2	50	0.170	1485148

The multifunctional beam clamp is suitable for fastening cables, protective pipes and cable sections on steel girders of any size (one clip for every application). Here, the beam clamp is very versatile thanks to various fastening options. Mounting of the beam clamp is quick and efficient, with no need for welding or drilling. It is simply mounted by hammering or pushing into place. The beam clamp can be used in both internal and external areas.

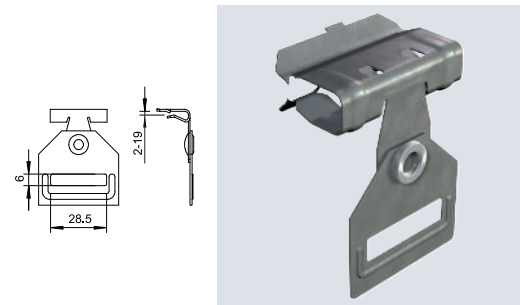


St ZL

Support clamp, for installation strip

Type	Flange thickness mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TKR 9	5-9	0.9	100	2.400	1481711

With seat for installation strip.

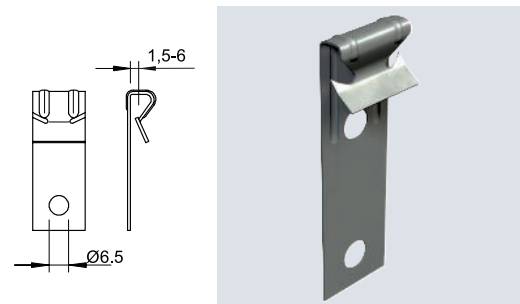


St ZL

Profile suspensions

Type	Flange thickness mm	Height mm	Width mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TKL 4	1.5-4	52	10	0.72	100	0.860	1485105
TKL 6	4-6	54	12	0.72	100	1.090	1485113

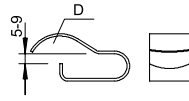
Profile suspension with drill hole to accept S hooks.



Industriestationen - Kabeltragsysteme / en / 2023/05/05 11:25:27 (LLEExport_03291) / 2023/05/05 11:26:04 11:26:04

Mounting systems

Support clip



Type	Flange thickness mm	Pipe size D mm	Pack Piece	Weight kg/100 pc.	Item no.
BCCF 8-9 D20	8-9	20	100	1.100	1483985

Support clamp for cables of 7–20 mm.

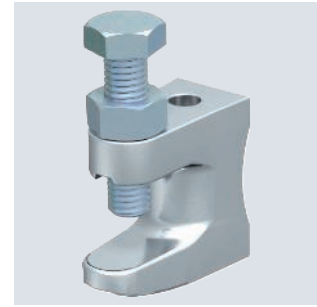
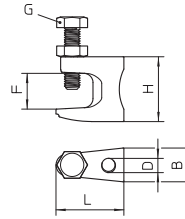
TG



Screw-in beam clamp, with gland hole

Type	Flange thickness mm	Height mm	Fastening hole mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
FL 1 TG	0-18	35	9	1.2	50	8.500	1488015
FL 2 TG	0-20	42	11	2.5	50	14.000	1488023
FL 3 TG	0-26	54	13	3.5	25	18.000	1488031

With gland hole.



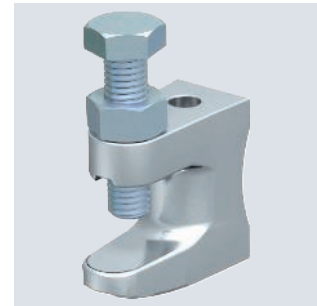
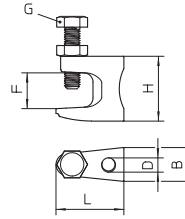
TG



Screw-in beam clamp, with thread

Type	Flange thickness mm	Height mm	For threaded rod	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
FL1-G M8 TG	0-18	35	M8	1.2	50	8.500	1488074
FL2-G M10 TG	0-20	42	M10	2.5	50	14.000	1488082
FL3-G M12 TG	0-26	54	M12	3.5	25	22.000	1488090

With thread.

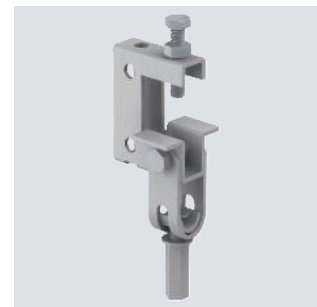
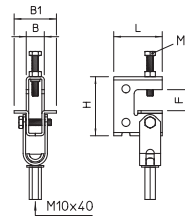


St ZL

Screw-in beam clamp, with hinge

Type	Flange thickness mm	For threaded rod	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TK FL G	0-24	M10	2.8	10	34.000	1488111

Two-hinge beam clamp for fastening on beams without welding and drilling. The maximum load is dependent on the load direction.

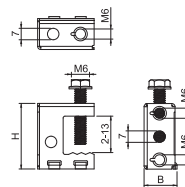


St ZL

Screw-in beam clamp, universal

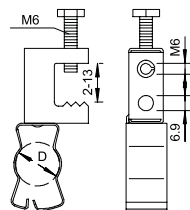
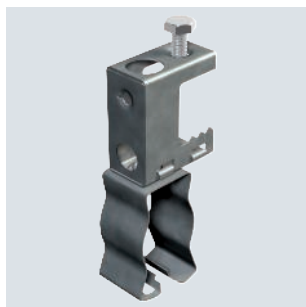
Type	Flange thickness mm	Height mm	Fastening hole mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TK 213	2-13	35	6.5	0.55	100	2.720	1484702

Various fastening options (horizontal and vertical).



Screw-in beam clamp, for pipes and cables

St ZL

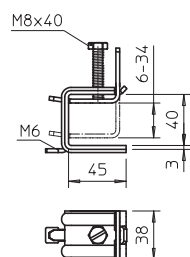
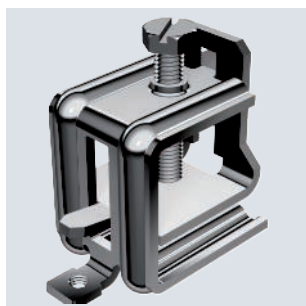


Type	Flange thickness mm	Clamping range D mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TKS 213-25	2-17	23-25	0.45	50	3.990	1484818
TKS 213-32	2-17	26-32	0.45	50	4.170	1484826
TKS 213-42	2-17	33-40	0.45	50	5.450	1484838

With rotating clip to accept pipes and cables, lockable.

Beam clamp for screwing on, light-duty

St G

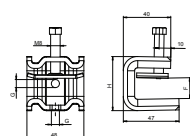


Type	Flange thickness mm	Pack Pair	Weight kg/100 pairs	Item no.
339 2	6-34	5	37.000	1408534

For rapid fastening on steel profiles during the mounting of cable tracks, clamp clips, luminaire suspensions, etc. A complete system consists of two beam clamps and a piece of C profile rail of any length, as well as two end caps.

Beam clamp SSP 6-21

St FT

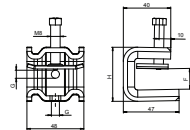


Type	Flange thickness mm	For threaded rod	Breaking load F1 kN	Breaking load F2 kN	Pack Piece	Weight kg/100 pc.	Item no.
SSP 6-21 M6 FT	6-21	M6	1.75	1.5	25	23.900	1486232
SSP 6-21 M8 FT	6-21	M8	1.75	1.5	25	23.900	1486282

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.

Beam clamp SSP 6-21

A2 VA A2 2B



Type	Flange thickness mm	For threaded rod	Breaking load F1 kN	Breaking load F2 kN	Pack Piece	Weight kg/100 pc.	Item no.
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
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

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.

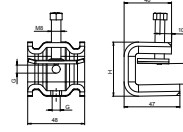
St FT



Beam clamp SSP 20-40

Type	Flange thickness mm	For threaded rod	Breaking load F1 kN	Breaking load F2 kN	Pack Piece	Weight kg/100 pc.	Item no.
SSP 20-40 M6 FT	20-40	M6	1.4	1.3	25	27.700	1486238
SSP 20-40 M8 FT	20-40	M8	1.4	1.3	25	27.800	1486288

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.



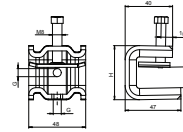
A2 VA A2 2B



Beam clamp SSP 20-40

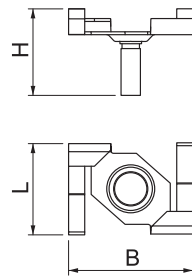
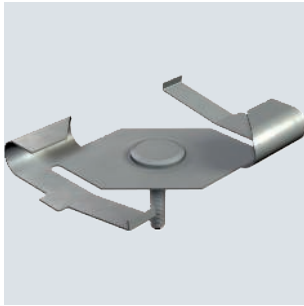
Type	Flange thickness mm	For threaded rod	Breaking load F1 kN	Breaking load F2 kN	Pack Piece	Weight kg/100 pc.	Item no.
SSP 20-40 M6 A2	20-40	M6	1.4	1.3	25	27.700	1486242
SSP 20-40 M6 A4	20-40	M6	1.4	1.3	25	27.700	1486244
SSP 20-40 M8 A2	20-40	M8	1.4	1.3	25	27.800	1486292
SSP 20-40 M8 A4	20-40	M8	1.4	1.3	25	27.800	1486294

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.



Ceiling profile clamp - CPC

St ZL

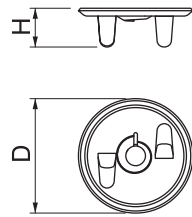
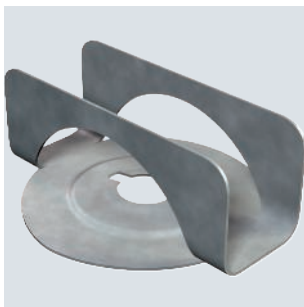


Type	Thread	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
CPC M6x11	M6 x 11mm	220	100	1.000	1483991
CPC M6x16	M6 x 16 mm	220	100	1.150	1483993
CPC M6x25	M6 x 25 mm	220	100	1.250	1483995

Ceiling profile clamp with threaded bolt

Locknut - CPCN

St ZL

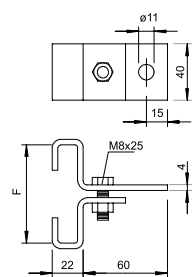


Type	Thread	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
CPCN M6	M6	220	100	0.650	1483997

Locknut for CPC ceiling profile clamp

Beam clamp

St FT

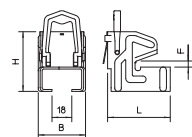
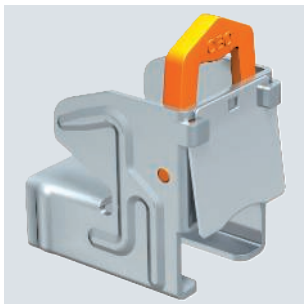


Type	Flange thickness mm	Height mm	Fastening hole mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
325 70 FT	70	60	11	10	25	27.900	5327075
325 80 FT	80	60	11	6	25	32.000	5327083
325 100 FT	100	60	11	6	25	33.500	5327105
325 130 FT	130	60	11	6	25	36.500	5327121

The two brackets are clamped to the flange.
For individual component suspension.

Beam clamp, for profile rail CM3518

St ZL



Type	Flange thickness mm	Height mm	Width mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
328 1	5-11	54.3	39.5	57	50	10.800	1408011
328 2	10-19	54.3	39.5	67	50	12.500	1408046

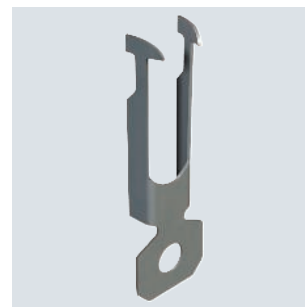
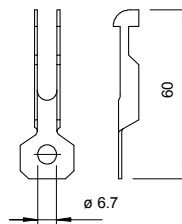
Screwless rustproof coated beam clamp, with blocking spring, suitable for profile rail, type CML3518 and CMS3518. For rapid fastening to steel profiles when installing cable tracks, clamp clips, light mounts, etc. A complete system consists of 2 beam clamps and one piece of C profile rail of any length, and 2 end caps.

St ZL

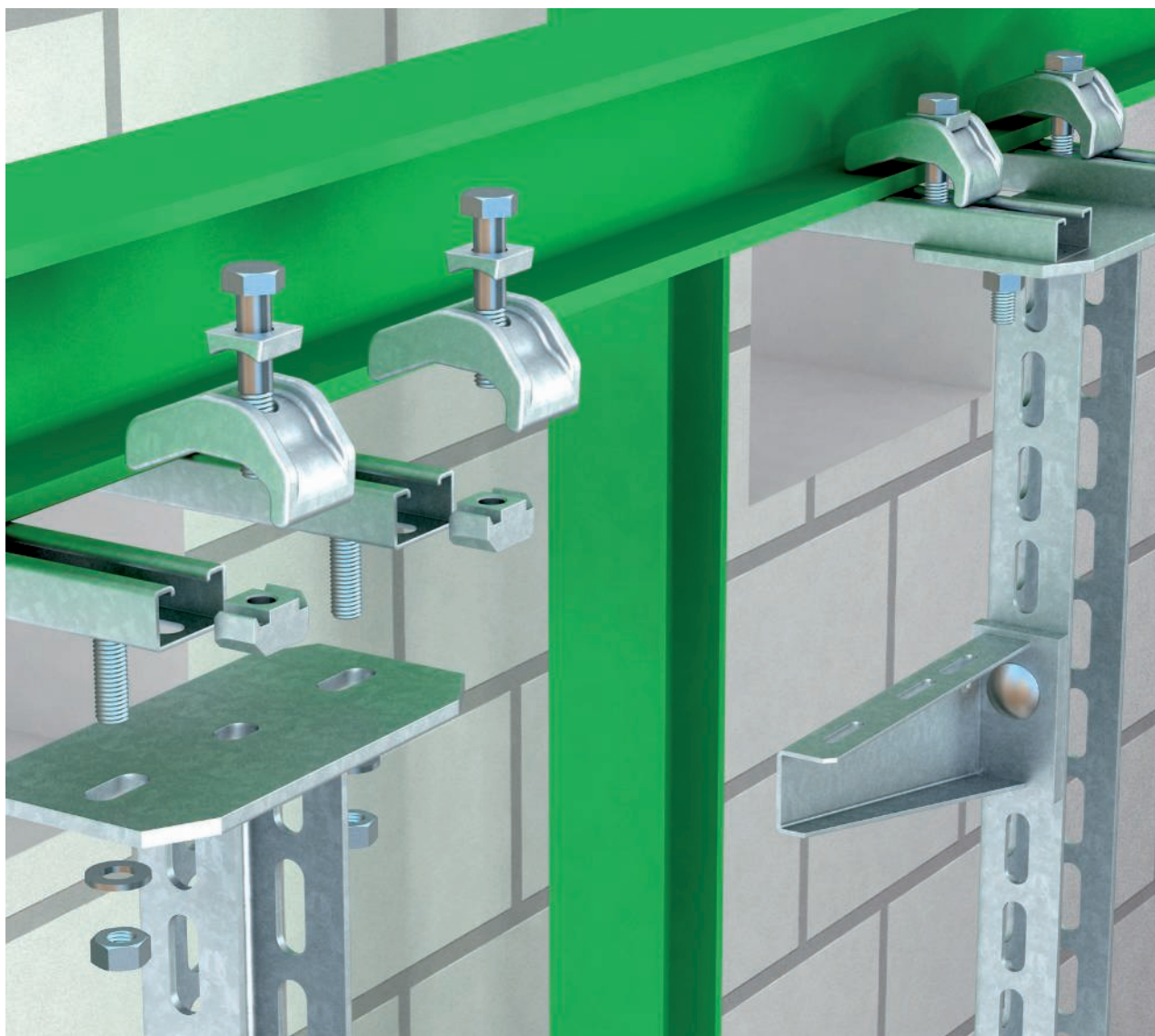
Profile ceiling suspensions

Type	Height mm	Fastening hole mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.

Push-through fastening, with opening to accept S hooks or bolt and nut.



System description



The beam clamp systems with reduced installation times and work are a clear argument for the use of this system in all areas of professional electrical installations. The beam clamp can be attached without difficult, often unpermitted, drilling. The load range runs from light-duty clamping angles to heavy-duty chuck jaws. The clamping

lugs/clamping angles, type KL, KWH and KWS, and the chuck jaws, type TKH and TKS, permit excellent connections without drilling or welding, on account of the perfect matching to additional system articles.

Installation principle



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

Mounting aid



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



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



Steel clamping, C profile rail
Fastening of a C profile, type MS 4022 or MS 5030, to steel girder using clamping angles, type KWS.



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



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



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



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



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



Clamp fastening on vertical steel girder
Mounting of the adapter plate, type KA-AW, on the vertical steel girder using clamping angles or chuck jaws. Wall brackets of type AW are fastened to the adapter plate, using the hexagon head screw SKS 12x40 GF.



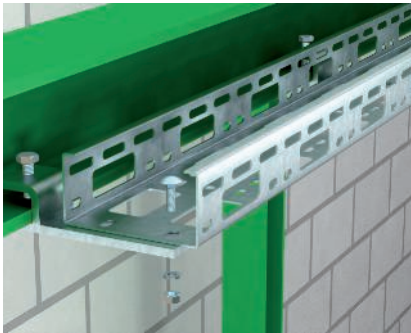
45° adapter plate, steel clamping
 Mounting of the 45° adapter plate, type KA-E 45, on the steel girder using clamping angles or chuck jaws. For additional support of routes in angles and at room corners.



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



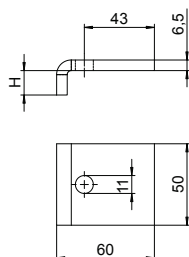
Vertical clamp fastening
 Installation of a mesh cable tray vertically on a steel girder, mounting with a beam clamp BFK and clamp GKS 50.



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

Clamping angle KL

St FT

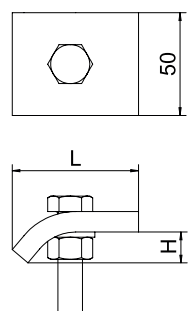
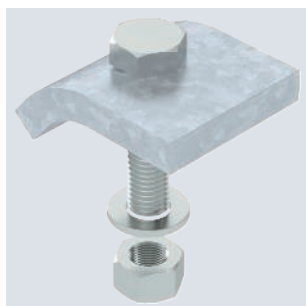


Type	Height mm	Bolt	Pack Piece	Weight kg/100 pc.	Item no.
KL1 10 S FT	10	M10x40	10	22.100	6354106
KL1 15 S FT	15	M10x50	10	23.400	6354114
KL1 20 S FT	20	M10x50	10	25.000	6354122

Clamping angle, type KL1, to fasten light support structures to steel girder flanges.
Choose the clamping lug according to the thickness of the flange.

Clamping angle KWS

St FT



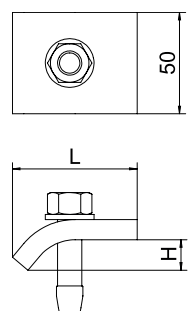
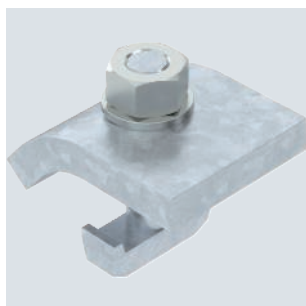
Type	F in kN	Bolt	Dim. H mm	Pack Pair	Weight kg/100 pairs	Item no.
KWS 5 FT	5.7	M12x40	5	10	64.000	6355218
KWS 10 FT	5.7	M12x50	10	10	70.000	6355226
KWS 15 FT	5.7	M12x50	15	10	65.200	6355234
KWS 20 FT	5.7	M12x60	20	10	79.000	6355242
KWS 25 FT	5.7	M12x60	25	10	80.000	6355250

Clamping angle, with hexagonal bolt, type KWS, for direct fixing of constructions to steel girder flanges.

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

Clamping angle KWH

St FT



Type	Height mm	F in kN	Bolt	Pack Pair	Weight kg/100 pairs	Item no.
KWH 5 FT	5	5.7	M12x40	10	67.000	6355021
KWH 10 FT	10	5.7	M12x50	10	73.000	6355048
KWH 15 FT	15	5.7	M12x50	10	76.000	6355056
KWH 20 FT	20	5.7	M12x60	10	82.000	6355064
KWH 25 FT	25	5.7	M12x60	10	87.000	6355072

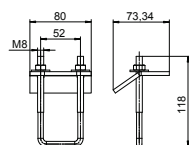
Clamping angle, with hook-head bolt, type KWH, for fastening in the mounting rail, type MS5030.

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.

Clamp

St FT



Type	Length mm	Width mm	Height mm	Pack Piece	Weight kg/100 pc.	Item no.
SB MS 41 M8 FT	118	80	74	20	32.300	1124679

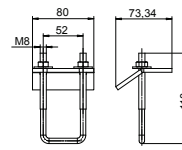
Connection element for two-sided fastening of profile rails to steel girders. Fastening is possible independently of the arrangement of the rail opening. The rail length should be at least the width of the steel girder + 2 x 50 mm. Always use in pairs for mounting. For use with profile rail MS4022, MS4141, MS4142, MS4124.

A4

Clamp

Type	Length mm	Width mm	Height mm	Pack Piece	Weight kg/100 pc.	Item no.
SB MS 41 M8 A4	118	80	74	20	32.300	1124719

Connection element for two-sided fastening of profile rails to steel girders. Fastening is possible independently of the arrangement of the rail opening. The rail length should be at least the width of the steel girder + 2 x 50 mm. Always use in pairs for mounting. For use with profile rail MS4022, MS4141, MS4142, MS4124.

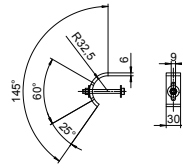


A2

Chuck jaw, light-duty TKS

Type	Height mm	Bolt	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
TKS-L36 M8 A2	36	M8x80	10	50	16.000	6355834

Chuck jaw with hexagonal nut for direct fastening of structures to steel girders. The clamping range of the chuck jaw is limited to the maximum fastening thickness of 36 mm.

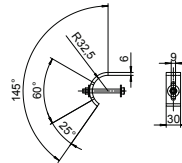


A4

Chuck jaw, light-duty TKS

Type	Height mm	Bolt	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
TKS-L36 M8 A4	36	M8x80	10	1	16.000	6355835

Chuck jaw with hexagonal nut for direct fastening of structures to steel girders. The clamping range of the chuck jaw is limited to the maximum fastening thickness of 36 mm.

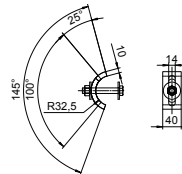


A2

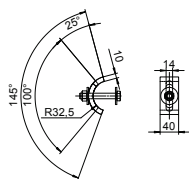
Chuck jaw, light duty TKS

Type	Height mm	Bolt	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
TKS-L36 M12 A2	36	M12x80	10	25	36.000	6355836

Chuck jaw with hexagonal nut for direct fastening of structures to steel girders. The clamping range of the chuck jaw is limited to the maximum fastening thickness of 36 mm.



Chuck jaw, light-duty TKS

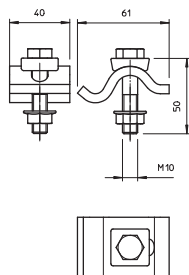


Type	Height mm	Bolt	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
TKS-L36 M12 A4	36	M12x80	10	1	36.000	6355837

Chuck jaw with hexagonal nut for direct fastening of structures to steel girders.
The clamping range of the chuck jaw is limited to the maximum fastening thickness of 36 mm.

Chuck jaw, light duty TKS

St FT

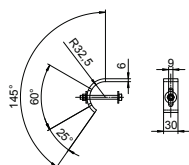


Type	Height mm	F in kN kN	Bolt	Pack Pair	Weight kg/100 pairs	Item no.
TKS-L-25 FT	25	10	M10x50	10	39.200	6355808

Chuck jaw with hexagonal nut for direct fastening of structures to steel girders.
The clamping range of the chuck jaw is limited to the maximum fastening thickness, 25 mm.

Chuck jaw, light-duty TKS

St FT

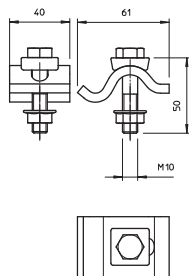


Type	Height mm	Bolt	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
TKS-L-36 M8 FT	36	M8x80	10	50	16.000	6355828

Chuck jaw with hexagonal nut for direct fastening of structures to steel girders.
The clamping range of the chuck jaw is limited to the maximum fastening thickness of 36 mm.

Chuck jaw, light-duty TKS

St FT



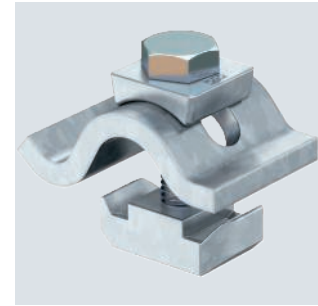
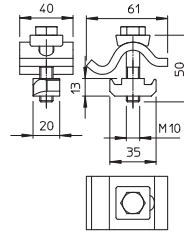
Type	Height mm	Bolt	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
TKS-L-36 M12 FT	36	M12x80	10	25	36.000	6355829

Chuck jaw with hexagonal nut for direct fastening of structures to steel girders.
The clamping range of the chuck jaw is limited to the maximum fastening thickness, 25 mm.

St FT

Type	Height F in kN		Bolt	Pack Pair	Weight kg/100 pairs	Item no.
	mm	kN				
TKH-L-25 FT	25	10	M10x25	10	46.000	6355812

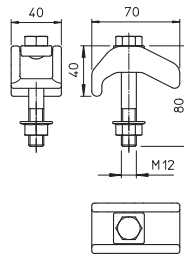
Light-duty chuck jaw with slide nut for fixing profile rails to steel girder flanges.
The clamping range of the chuck jaw is limited to the maximum fastening thickness, 25 mm.
The chuck jaw is used in combination with profile rails of slot widths 18 mm and 22 mm.



St ZL

Type	Height F in kN		Bolt	Pack Pair	Weight kg/100 pairs	Item no.
	mm	kN				
TKS-S-30 ZL	30	21	M12x75	10	82.800	6355798

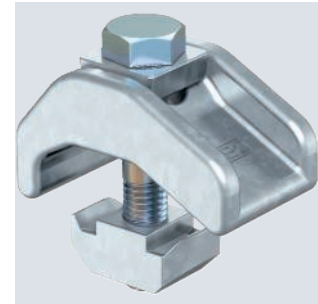
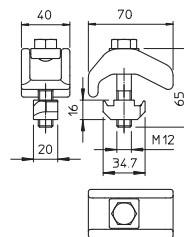
Heavy-duty chuck jaw with hexagonal nut for direct fastening of structures to steel girders.
The clamping range of the chuck jaw is limited to the maximum fastening thickness, 30 mm.



St ZL

Type	Height F in kN		Bolt	Pack Pair	Weight kg/100 pairs	Item no.
	mm	kN				
TKH-S-30 ZL	30	21	M12x65	10	88.600	6355805

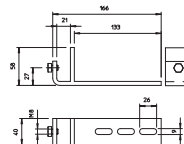
Heavy-duty chuck jaw with slide nut for fastening profile rails to steel girders.
The clamping range of the chuck jaw is limited to the maximum fastening thickness, 30 mm.
The chuck jaw is used in combination with profile rails of slot width 22 mm.



St FT

Type	Dim.		Pack Piece	Weight kg/100 pc.	Item no.
	Width mm	b mm			
BFK 166 58 20 FT	166	133	10	45.000	6003888

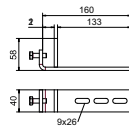
Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs vertically.



Beam clamp, vertical BFK 166

Beam clamp, vertical BFK 166

A2 2B

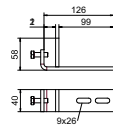


Type	Dim.		Pack Piece	Weight kg/100 pc.	Item no.
	Width mm	b mm			
BFK 166 58 20 A2	166	133	10	46.000	6003877

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

Beam clamp, vertical BFK 132

St FT

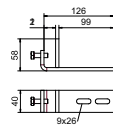


Type	Dim.		Pack Piece	Weight kg/100 pc.	Item no.
	Width mm	b mm			
BFK 132 58 FT	132	99	10	39.000	6003880

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

Beam clamp, vertical BFK 132

A2 2B

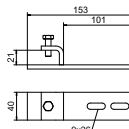


Type	Dim.		Pack Piece	Weight kg/100 pc.	Item no.
	Width mm	b mm			
BFK 132 58 A2	132	99	10	38.000	6003871

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

Beam clamp, horizontal BFK 153

St FT



Type	Dim.		Pack Piece	Weight kg/100 pc.	Item no.
	Width mm	b mm			
BFK 153 33 FT	153	101	10	37.000	6003884

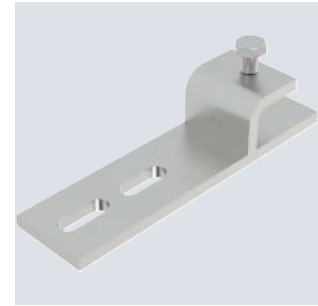
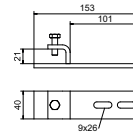
Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs horizontally.

A2 2B

Beam clamp, horizontal BFK 153

Type	Dim.		Pack Piece	Weight kg/100 pc.	Item no.
	Width mm	b mm			
BFK 153 33 A2	153	101	10	37.200	6003873

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

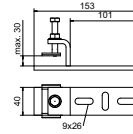


St FT

Beam clamp with pressure plate, horizontal BFK 153

Type	Dim.		Pack Piece	Weight kg/100 pc.	Item no.
	Width mm	b mm			
BFKD 153 44 FT	153	101	10	41.400	6003885

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

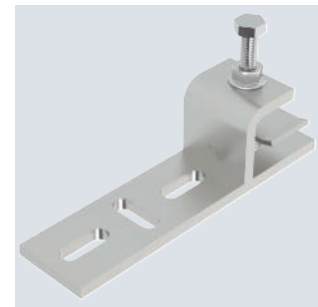
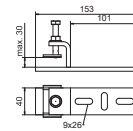


A2 2B

Beam clamp with pressure plate, horizontal BFK 153

Type	Dim.		Pack Piece	Weight kg/100 pc.	Item no.
	Width mm	b mm			
BFKD 153 44 A2	153	101	10	42.400	6003887

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

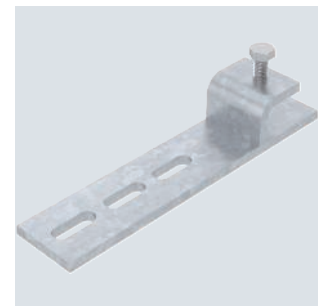
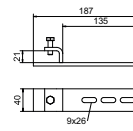


St FT

Beam clamp, horizontal BFK 187

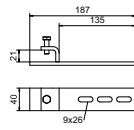
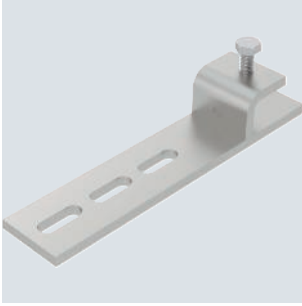
Type	Dim.		Pack Piece	Weight kg/100 pc.	Item no.
	Width mm	b mm			
BFK 187 33 FT	187	135	10	43.000	6003892

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



Beam clamp, horizontal BFK 187

A2 2B



Type	Dim.		Pack Piece	Weight kg/100 pc.	Item no.
	Width mm	b mm			
BFK 187 33 A2	187	135	10	42.000	6003879

Beam clamp for clamping on the steel girder.

The cable support system attached to the beam clamp runs horizontally.

Rail systems from OBO

OBO's tried-and-tested rail system is now more logically structured than ever before. It is now easy to choose the right product at a glance from the three load classes: Light duty, medium duty and heavy duty. The matching accessories are also right there in the selection aids. So choosing perfectly matching products is simply a breeze.

Highly versatile

Different perforation patterns

Strip galvanised and hot-dip galvanised

Stainless steel grades V2A and V4A

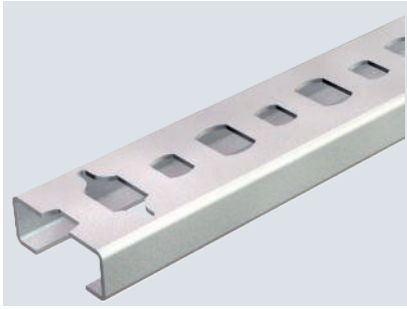
Light duty

Medium duty

Heavy duty

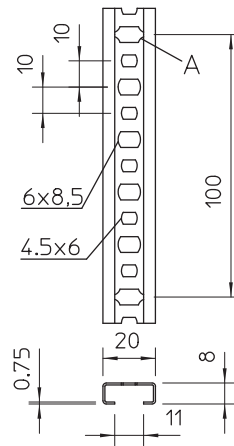
Mounting systems

CL2008 profile rail, slot 11 mm, perforated, breakable

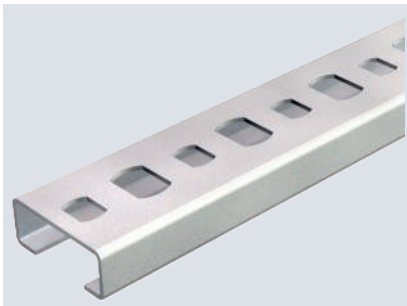


Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CL2008BP2000FS	2000	0.75	2	21.100	1106120

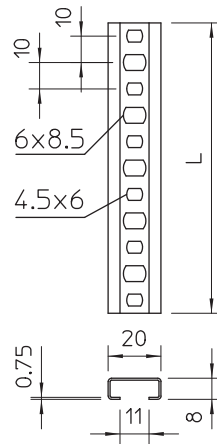


CL2008 profile rail, slot 11 mm, perforated



Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CL2008P2000FS	2000	0.75	2	20.000	1106627
CL2008BP2000BK	2000	0.75	2	20.000	1106023
CL2008BP2000FS	2000	0.75	2	21.100	1106120
CL2008BP1000FS	1000	0.75	10	21.500	1105906

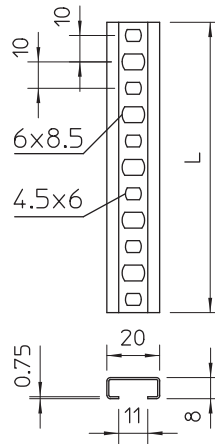


A2 2B



CL2008 profile rail, slot 11 mm, perforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CL2008P2000A2	2000	0.75	2	21.400	1106628



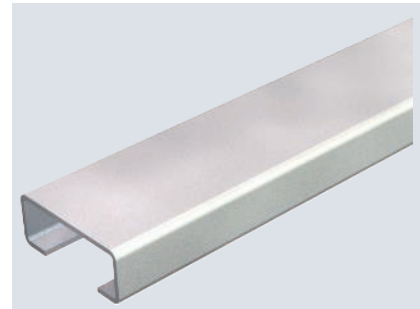
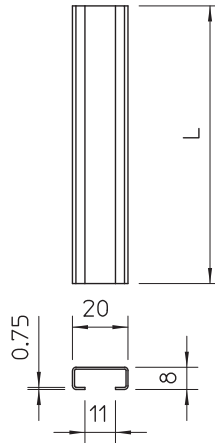
Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

St FS



CL2008 profile rail, slot 11 mm, unperforated

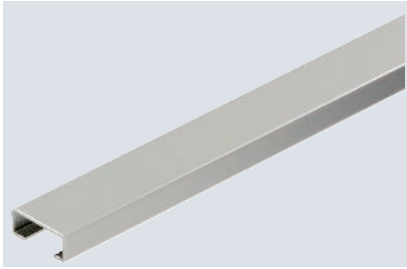
Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CL2008UP2000FS	2000	0.75	2	20.000	1105124



Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

CL2008 profile rail, slot 11 mm, unperforated

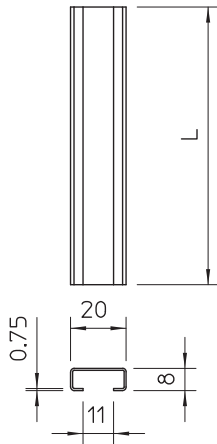
A2 2B



Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CL2008UP2000A2	2000	0.75	2	23.550	1105125

Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

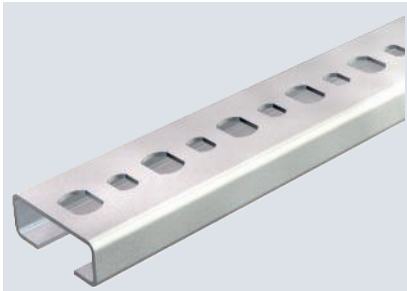
Dimensions



Type	Dimension W x H mm	Dim. L mm
CL2008UP2000A2	20x8	2000

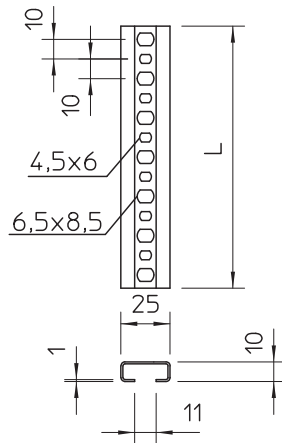
CL2510 profile rail, slot 11 mm, perforated

St FS



Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CL2510P2000FS	2000	1	2	36.800	1108123

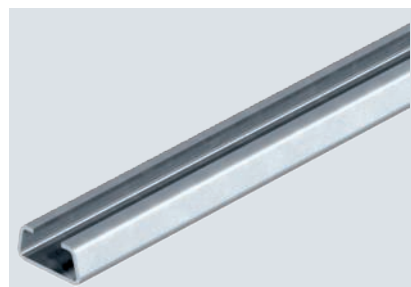
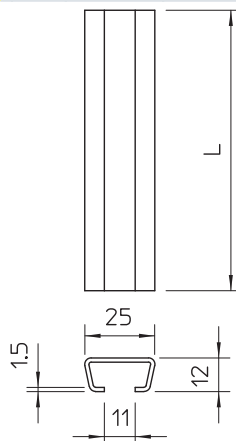
Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.





Profile rail CL2512, slot 11 mm, unperforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CL2512UP2000FS	2000	1.5	2	58.300	1117033

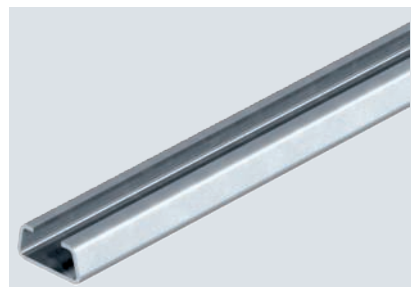


Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.



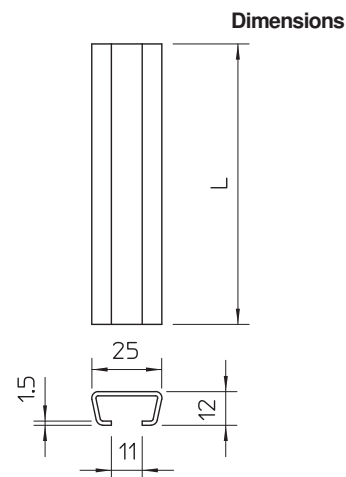
Profile rail CL2512, slot 11 mm, unperforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CL2512UP2000FT	2000	1.5	2	65.000	1117025
CL2512UP2000FS	2000	1.5	2	58.300	1117033
CL2512UP2000A2	2000	1.5	2	58.300	1117068

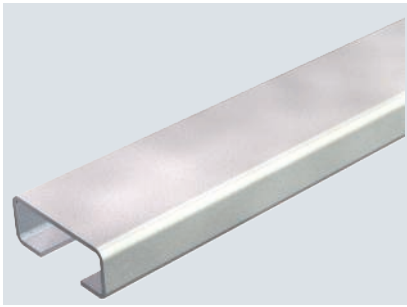


Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

Type	Dimension	
	W x H mm	Dim. L mm
CL2512UP2000FT	25 x 12	2000
CL2512UP2000FS	25 x 12	2000
CL2512UP2000A2	25 x 12	2000

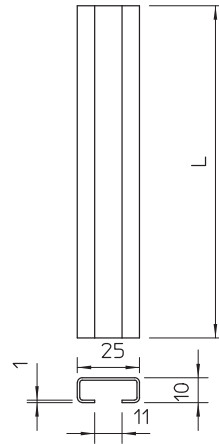


CL2510 profile rail, slot 11 mm, unperforated



Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CL2510UP2000FS	2000	1	2	36.000	1107127
CL2510UP2000BK	2000	1	2	36.000	1107038

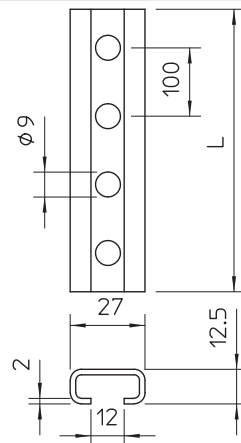


CL2712 profile rail, slot 12 mm, perforated



Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

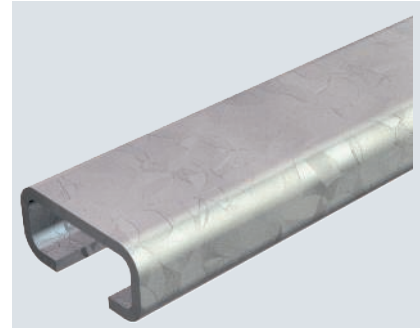
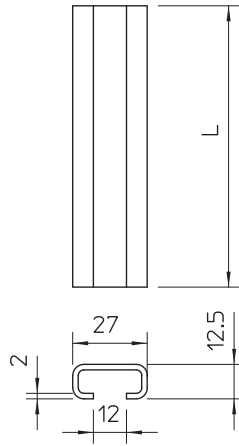
Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CL2712P2000FS	2000	2	2	85.000	1109525
CL2712P2000FT	2000	2	2	89.500	1109529





Profile rail CL2712, slot 12 mm, unperforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CL2712UP2000FT	2000	2	2	90.000	1109022
CL2712UP2000BK	2000	2	2	90.000	1109014

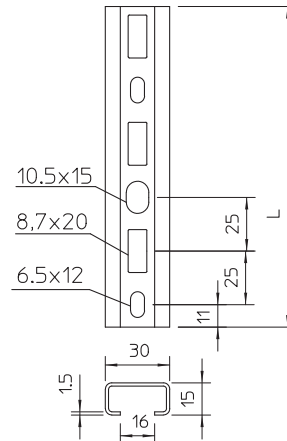


Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.



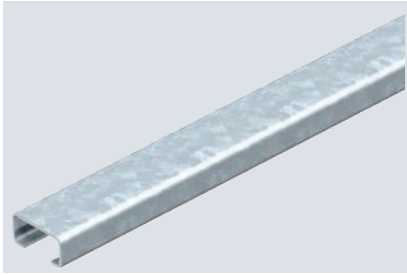
CM3015 profile rail, slot 16 mm, perforated

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
CM3015P0200FT	200	1.5	25	15.000	1109782
CM3015P0300FT	300	1.5	25	22.000	1109790
CM3015P0400FT	400	1.5	10	30.000	1109804
CM3015P0500FT	500	1.5	10	37.000	1109812
CM3015P0600FT	600	1.5	10	44.000	1109820
CM3015P0700FT	700	1.5	10	50.000	1109839
CM3015P0800FT	800	1.5	10	56.000	1109847
CM3015P1000FT	1000	1.5	10	73.000	1109863
CM3015P2000FT	2000	1.5	2	73.000	1109871
CM3015P2000FS	2000	1.5	2	69.000	1110002



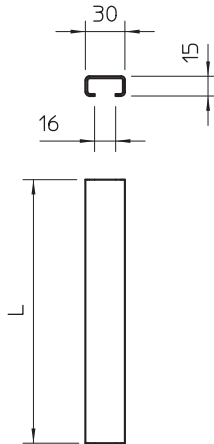
Profile rail, perforated, slot width 16 mm.

CM3015 profile rail, slot 16 mm, unperforated

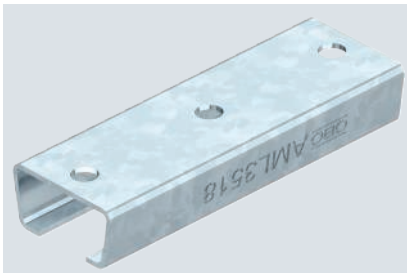


Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CM3015UP2000FS	2000	1.5	2	75.500	1110004



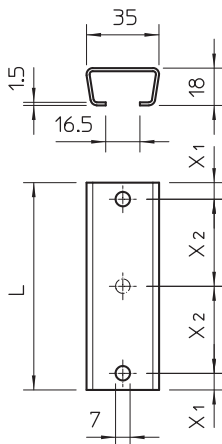
AML3518P anchor rail, slot 16.5 mm, round-perforated



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.

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
AML3518P0200SOFT	200	1.5	50	17.700	1119826
AML3518P0100SOFT	100	1.5	100	9.300	1119834

Dimensions

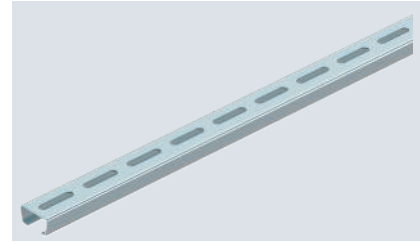


Type	Dimension W x H mm	Dim. L mm
AML3518P0200SOFT	35 x 18	200
AML3518P0100SOFT	35 x 18	100

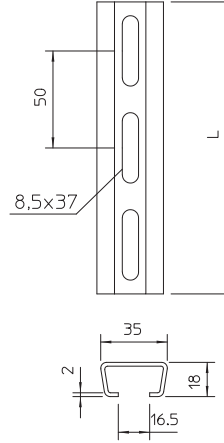


Anchor rail AML3518, slot width 16.5 mm, perforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AML3518P1000FS	1000	1.5	1	82.000	1119646
AMS3518P1000FS	1000	2	1	115.000	1112735
AML3518P2000FS	2000	1.5	2	82.500	1119648
AML3518P1000FT	1000	1.5	10	89.000	1119672
AML3518P2000FT	2000	1.5	2	89.000	1119656
AMS3518P1000FT	1000	2	1	122.000	1112755

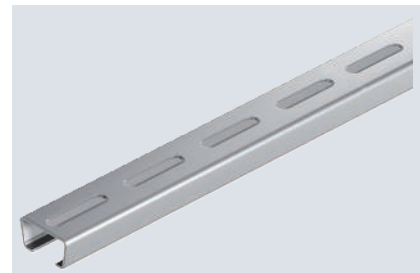


Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

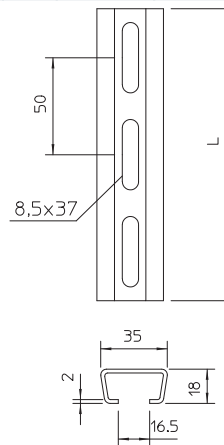


AML3518 anchor rail, slot 16.5 mm, perforated

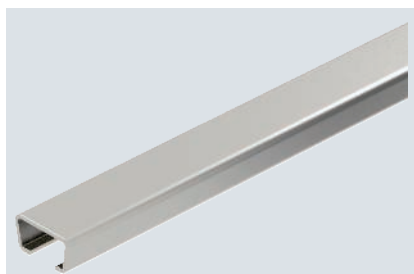
Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AML3518P1000A2	1000	1.5	1	82.000	1119700
AML3518P2000A2	2000	1.5	2	82.000	1119702
AML3518P6000A2	6000	1.5	6	80.000	1119729



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.



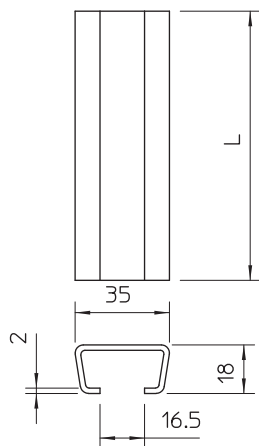
AML3518 anchor rail, slot 16.5 mm, unperforated



Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AML3518UP2000A2	2000	1.5	2	90.000	1112007
AMS3518UP2000A2	2000	2	2	116.000	1110005

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.

Dimensions

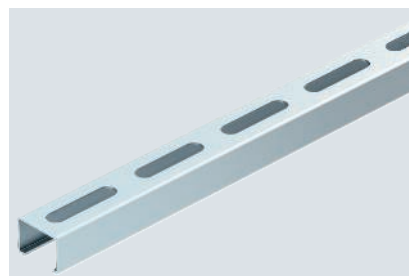


Type	Dimension W x H mm	Dim. L mm
AML3518UP2000A2	35 x 18	2000
AMS3518UP2000A2	35 x 18	2000



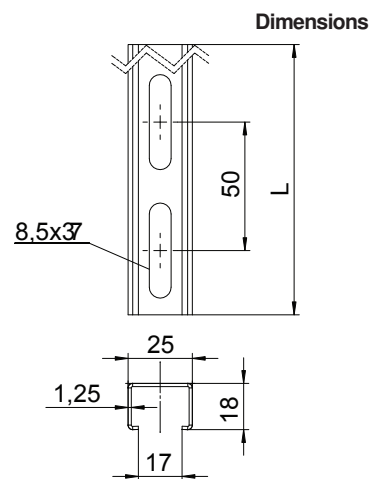
Profile rail CL2518, slot 17 mm, perforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
C2518	2000	1.25	2	55.000	1111640



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.

Type	Dimension W x H mm	Dim. L mm
C2518	25 x 18	2000

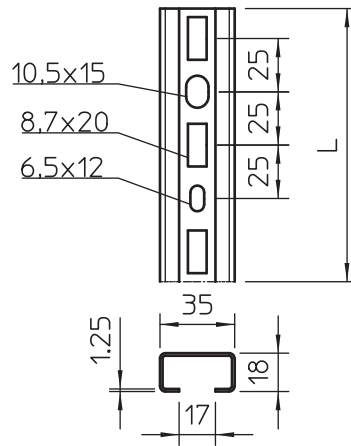


CML3518 profile rail, slot 17 mm, perforated



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

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
CML3518P0150FS	150	1.25	25	10.600	1104241
CML3518P0200FS	200	1.25	25	14.200	1104268
CML3518P0300FS	300	1.25	25	21.300	1104284
CML3518P0400FS	400	1.25	10	28.400	1104292
CML3518P0500FS	500	1.25	10	35.500	1104306
CML3518P0600FS	600	1.25	10	42.600	1104310
CML3518P0700FS	700	1.25	10	49.700	1104315
CML3518P0800FS	800	1.25	10	56.800	1104320
CML3518P0900FS	900	1.25	10	63.900	1104325
CML3518P0150FT	150	1.25	25	11.400	1104550
CML3518P0200FT	200	1.25	25	15.300	1104552
CML3518P0300FT	300	1.25	25	22.900	1104554
CML3518P0400FT	400	1.25	10	30.500	1104556
CML3518P0500FT	500	1.25	10	38.200	1104558
CML3518P0600FT	600	1.25	10	45.800	1104560
CML3518P0700FT	700	1.25	10	53.400	1104562
CML3518P0800FT	800	1.25	10	61.100	1104564
CML3518P0900FT	900	1.25	10	68.700	1104566



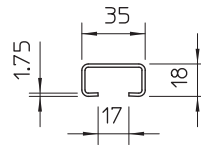
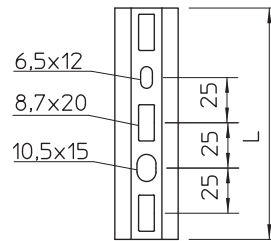


CMS3518 profile rail, slot 17 mm, perforated

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
CMS3518P0150FS	150	1.75	25	14.670	1104349
CMS3518P0200FS	200	1.75	25	19.560	1104357
CMS3518P0300FS	300	1.75	25	29.340	1104373
CMS3518P0400FS	400	1.75	10	39.120	1104391
CMS3518P0900FS	900	1.75	10	88.020	1104435
CMS3518P0500FS	500	1.75	10	48.900	1104403
CMS3518P0600FS	600	1.75	10	58.680	1104411
CMS3518P0700FS	700	1.75	10	68.460	1104422
CMS3518P0800FS	800	1.75	10	78.240	1104427
CMS3518P0150FT	150	1.75	25	15.435	1104581
CMS3518P0200FT	200	1.75	25	20.580	1104583
CMS3518P0300FT	300	1.75	25	30.870	1104585
CMS3518P0400FT	400	1.75	10	41.160	1104587
CMS3518P0500FT	500	1.75	10	51.450	1104589
CMS3518P0600FT	600	1.75	10	61.740	1104591
CMS3518P0700FT	700	1.75	10	72.030	1104593
CMS3518P0800FT	800	1.75	10	82.320	1104595
CMS3518P0900FT	900	1.75	10	92.610	1104597



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.

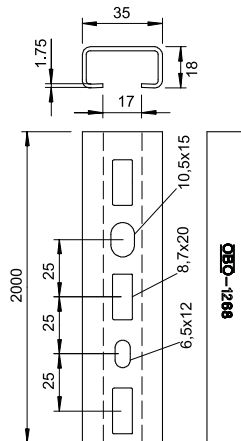


CML3518 profile rail, slot 17 mm, perforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CML3518P1000FS	1000	1.25	1	71.000	1104497
CML3518P2000FS	2000	1.25	2	71.000	1104500
CML3518P1000FT	1000	1.25	10	73.600	1104568
CML3518P2000FT	2000	1.25	20	73.600	1104570
CMS3518P1000FS	1000	1.75	10	97.800	1104445
CMS3518P2000FS	2000	1.75	2	97.800	1104454



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.



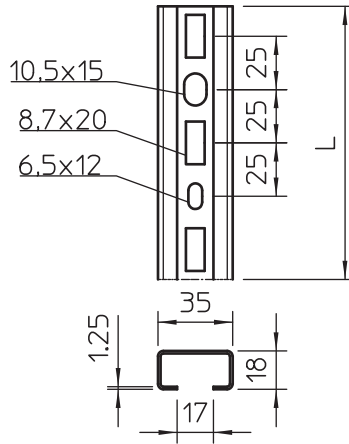
CML3518 profile rail, slot 17 mm, perforated

A2 2B



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.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CML3518P1000A2	1000	1.25	1	71.000	1104498
CML3518P2000A2	2000	1.25	2	71.000	1104501



CMS3518 profile rail, slot 17 mm, perforated

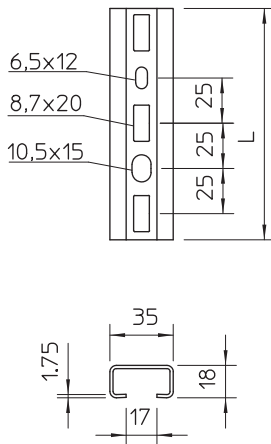
St FT



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.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CMS3518P1000FT	1000	1.75	10	102.900	1104598
CMS3518P2000FT	2000	1.75	20	102.900	1104599

Dimensions



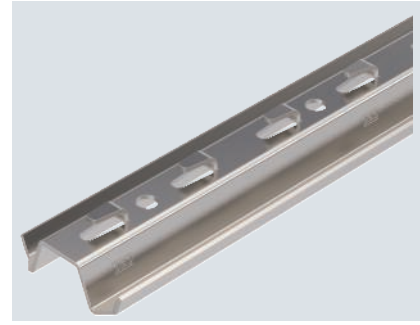
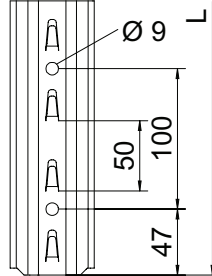
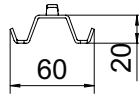
Type	Dimension W x H mm	Dim. L mm
CMS3518P1000FT	35 x 18	1000
CMS3518P2000FT	35 x 18	2000

A2 2B



TP profile

Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
TPSG 3000 A2	3000	1	440.000	6366094



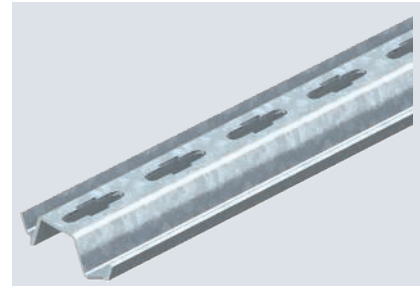
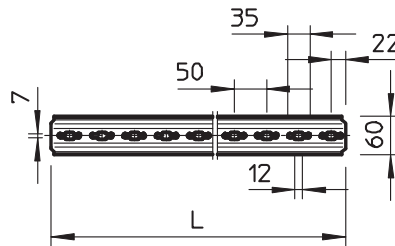
TP profile with clamping lugs.

St FS



TP profile

Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
TPS 3000 FS	3000	1	441.000	6364802



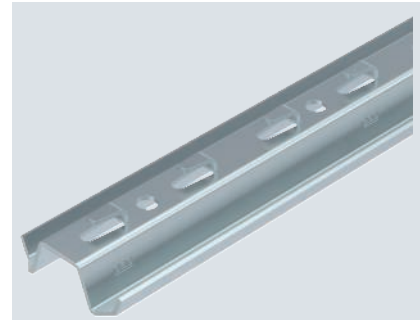
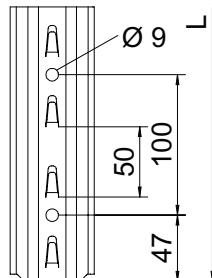
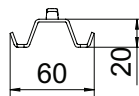
TP profile, perforated, in supply length 3,000 mm.

St FS FT



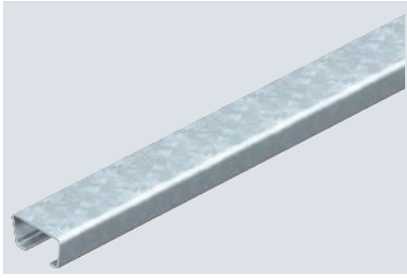
TP profile

Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
TPSG 300L FS	300	1	40.600	6366542
TPSG 3000 FS	3000	1	441.000	6366090
TPSG 3000 FT	3000	1	461.000	6366093



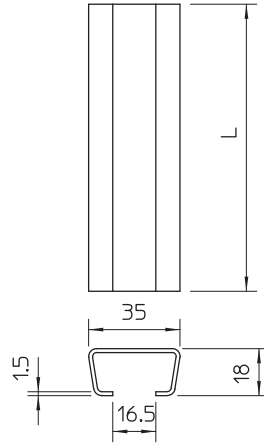
TP profile with clamping lugs.

AML3518 anchor rail, slot 16.5 mm, unperforated

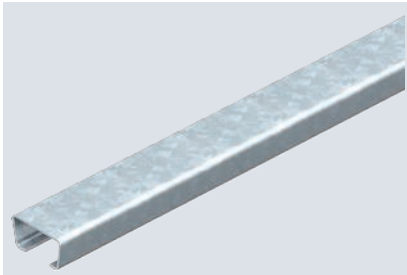


Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AML3518UP2000FS	2000	1.5	2	90.000	1118226

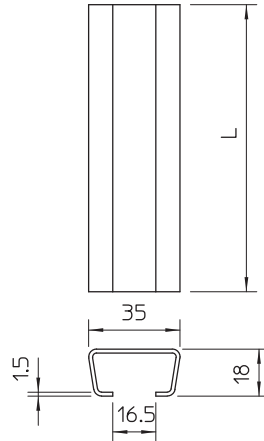


AML3518 anchor rail, slot 16.5 mm, unperforated



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.

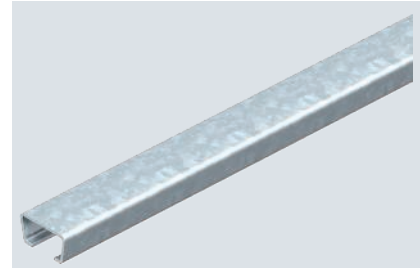
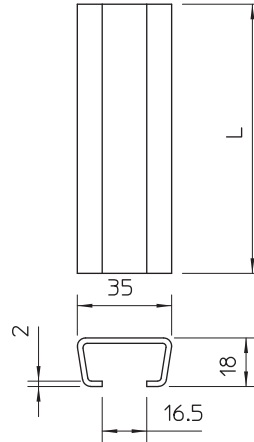
Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AML3518UP2000FT	2000	1.5	2	89.400	1118129
AML3518UP6000FT	6000	1.5	6	94.840	1118153





AMS3518 anchor rail, slot 16.5 mm, unperforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AMS3518UP2000FS	2000	2	2	116.000	1112120

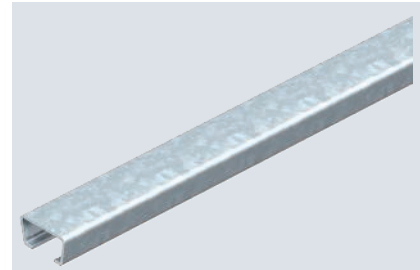
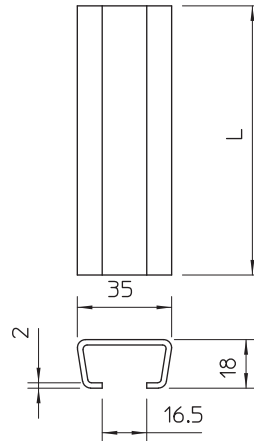


Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.



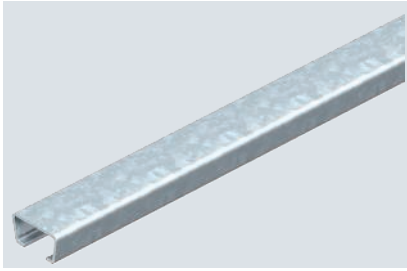
AMS3518 anchor rail, slot 16.5 mm, unperforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AMS3518UP2000FT	2000	2	2	121.350	1112228



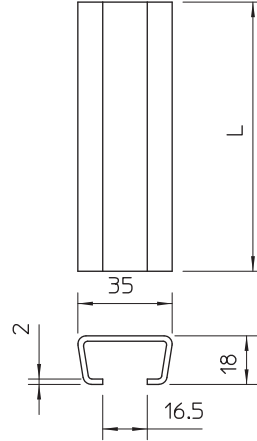
Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

AMS3518 anchor rail, slot 16.5 mm, unperforated

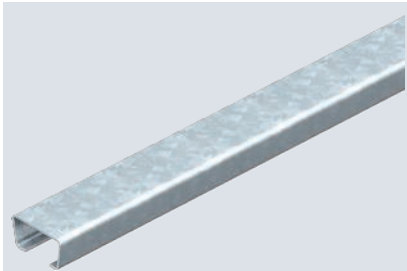


Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AMS3518UP2000BK	2000	2	2	116.000	1112023
AMS3518UP2000FS	2000	2	2	116.000	1112120
AMS3518UP2000FT	2000	2	2	121.350	1112228
AMS3518UP6000FS	6000	2	6	116.000	1112139
AMS3518UP6000FT	6000	2	6	111.167	1112244
AMS3518UP6000BK	6000	2	6	116.000	1112074

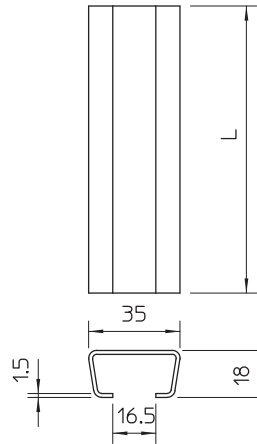


AML3518 anchor rail, slot 16.5 mm, unperforated



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.

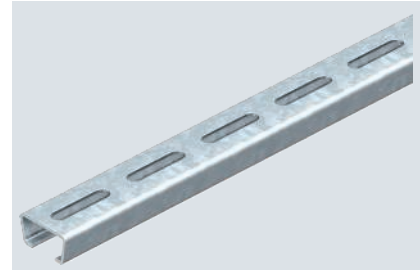
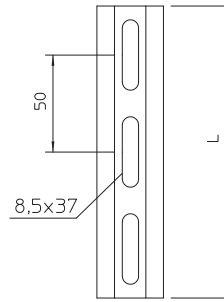
Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AML3518UP2000BK	2000	1.5	2	90.000	1118021



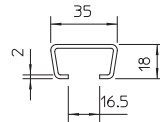


Anchor rail AMS3518, slot 16.5 mm, perforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AMS3518P2000FS	2000	2	2	115.000	1112708

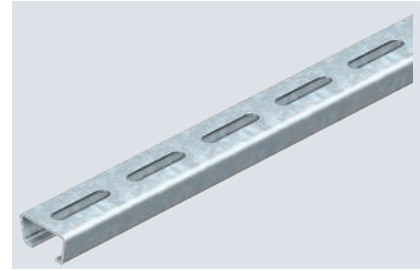
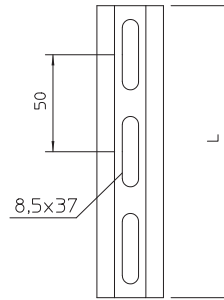


Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

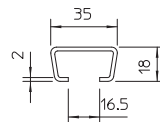


Anchor rail AMS3518, slot 16.5 mm, perforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AMS3518P2000FT	2000	2	2	122.000	1112759



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.

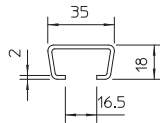
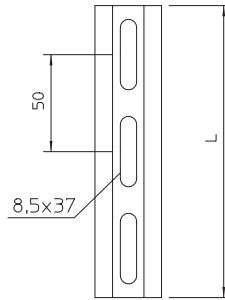


Anchor rail AMS3518, slot 16.5 mm, perforated



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.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AMS3518P1000A2	1000	2	1	107.000	1118421
AMS3518P2000A2	2000	2	2	107.000	1112709

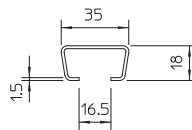
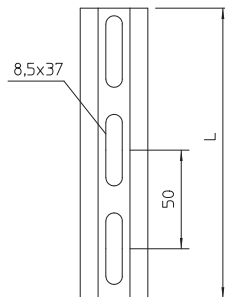


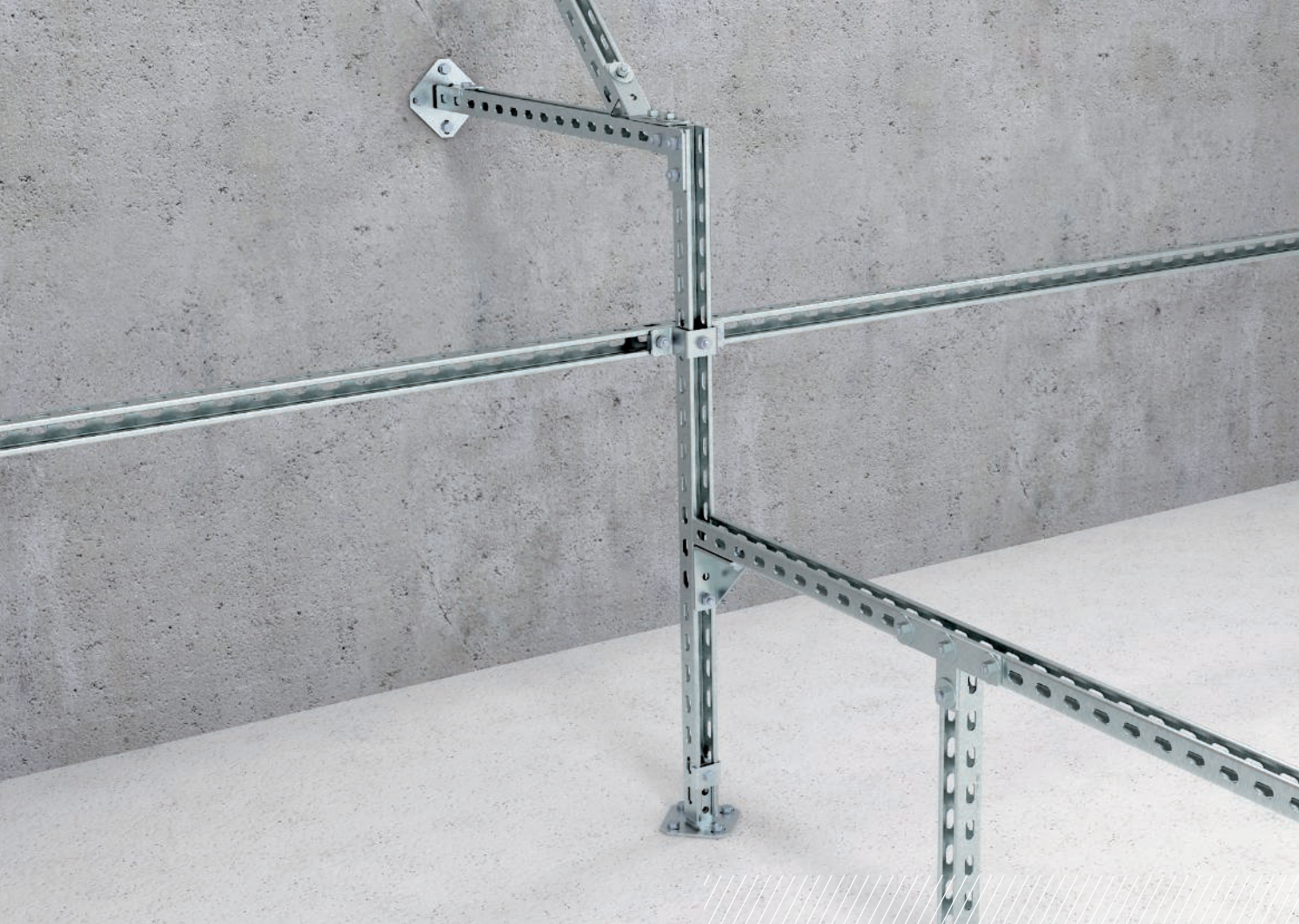
Anchor rail AML3518, slot 16.5 mm, perforated



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.

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
AML3518P0200FT	200	1.5	25	17.800	1119696
AML3518P0300FT	300	1.5	25	26.700	1119693
AML3518P0400FT	400	1.5	10	35.600	1119690
AML3518P0500FT	500	1.5	10	44.500	1119687
AML3518P0600FT	600	1.5	10	53.400	1119684
AML3518P0700FT	700	1.5	10	62.300	1119681
AML3518P0800FT	800	1.5	10	71.200	1119678





MS4121 mounting rail

Heavy-duty C profile rail for the 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.

Slot width 22 mm

Double version (clinched)

Slot width 22 mm



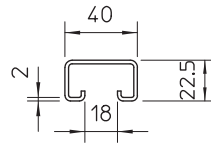
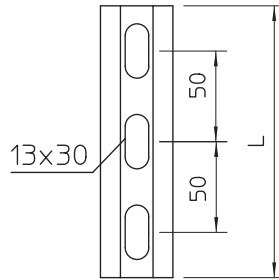
MS4022 mounting rail, heavy duty, slot 18 mm, perforated

St FT



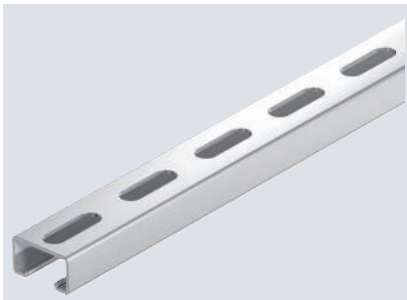
Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS4022P2000FT	2000	2	2	152.500	1121979
MS4022P6000FT	6000	2	6	152.500	1121898



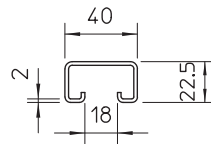
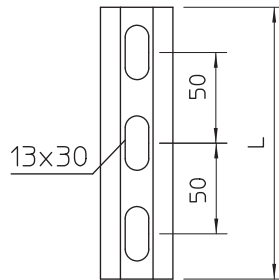
MS4022 mounting rail, heavy duty, slot 18 mm, perforated

A2 2B



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.

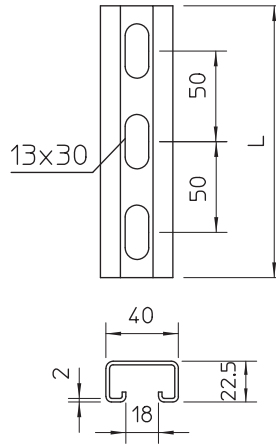
Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS4022P2000A2	2000	2	2	152.500	1121960
MS4022P6000A2	6000	2	6	152.500	1121901





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

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS4022P2000A4	2000	2	2	147.600	1121963
MS4022P6000A4	6000	2	6	147.600	1121903

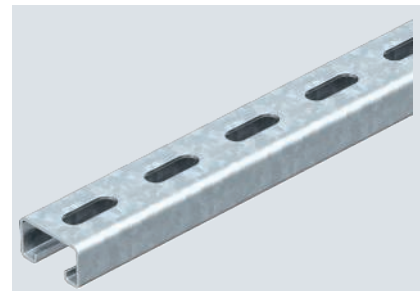
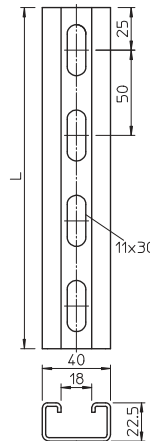


Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.



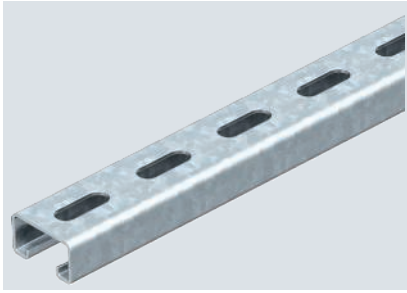
Profile rail MS 22 L

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
MS 22 L 200 FT	200	2	1	30.000	1122703
MS 22 L 300 FT	300	2	1	45.000	1122707
MS 22 L 400 FT	400	2	1	64.000	1122711
MS 22 L 500 FT	500	2	1	75.000	1122715
MS 22 L 600 FT	600	2	1	91.000	1122719
MS 22 L 700 FT	700	2	1	105.000	1122723
MS 22 L 800 FT	800	2	1	120.000	1122727
MS 22 L 1MFT	1000	2	1	150.000	1122735
MS 22 L 3M FT	3000	2	3	150.660	1122742
MS 22 L 6M FT	6000	2	6	153.330	1122746



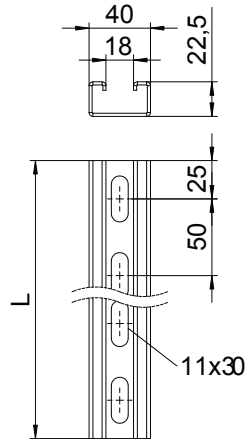
Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

MS 22 L BASF mounting rail

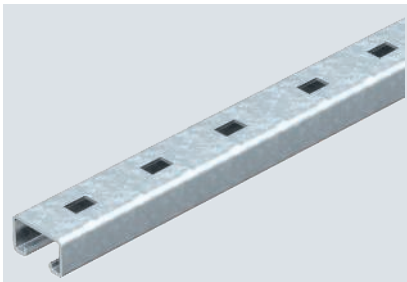


Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS 22 L 3M FT	3000	2	3	160.000	1122789

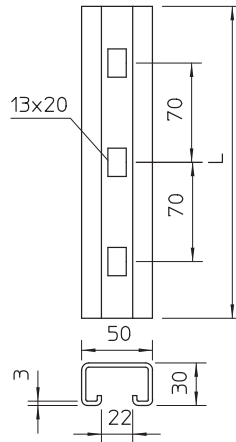


MS5030 mounting rail, slot 22 mm, perforated



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.

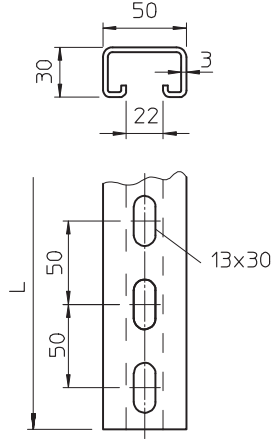
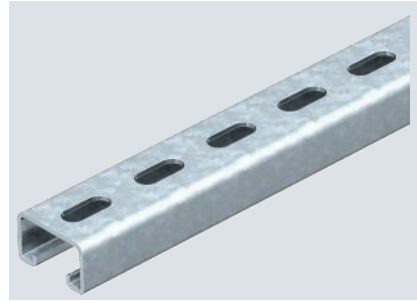
Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
MS5030RP0220FT	220	3	1	69.000	6349404
MS5030RP0260FT	260	3	1	81.500	6349412
MS5030RP0300FT	300	3	1	94.000	6349439
MS5030RP0340FT	340	3	1	107.000	6349447
MS5030RP0380FT	380	3	1	119.000	6349463





MS5030 mounting rail, slot 22 mm, perforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS5030P1000FT	1000	3	1	282.500	1121448
MS5030P2000FT	2000	3	2	282.500	1121464
MS5030P3000FT	3000	3	3	308.100	1121466
MS5030P6000FT	6000	3	6	282.500	1121472
MS5030P2000A2	2000	3	2	280.000	1121480
MS5030P6000A2	6000	3	6	282.500	1121499
MS5030P2000A4	2000	3	2	285.000	1121465
MS5030P6000A4	6000	3	6	285.000	1121473

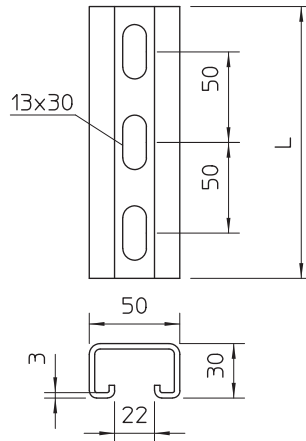
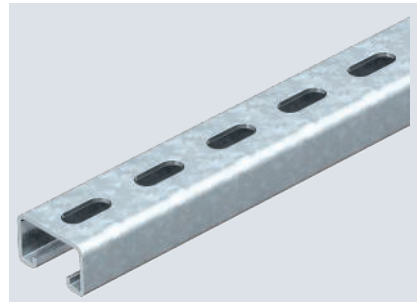


Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.



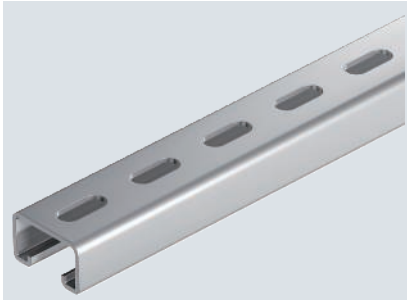
MS5030 mounting rail, slot 22 mm, perforated

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
MS5030P0200FT	200	3	1	57.000	1121391
MS5030P0300FT	300	3	1	85.000	1121243
MS5030P0400FT	400	3	1	115.000	1121278
MS5030P0500FT	500	3	1	141.000	1121405
MS5030P0600FT	600	3	1	170.000	1121294
MS5030P0700FT	700	3	1	198.000	1121332
MS5030P0800FT	800	3	1	235.000	1121308
MS5030P0900FT	900	3	1	255.000	1121336
MS5030P1500FT	1500	3	1	424.000	1121363



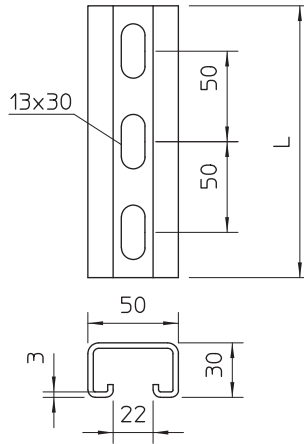
Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

MS5030P0 mounting rail, slot 22 mm, perforated



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.

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
MS5030P0200A4	200	3	1	56.000	1121393
MS5030P0400A4	400	3	1	113.000	1121280

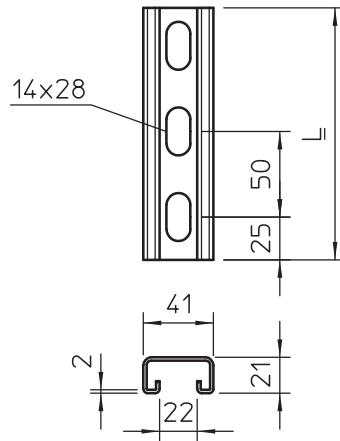


MS4121 mounting rail, slot 22 mm, perforated



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.

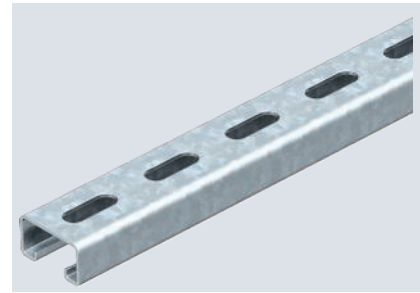
Type	Length mm	Material thickness mm	BS	Pack m	Weight kg/100 m	Item no.
MS4121P2000FS	2000	2	🔥	2	175.000	1122918
MS4121P3000FS	3000	2	🔥	3	141.900	1122920
MS4121P6000FS	6000	2	🔥	6	141.900	1122922
MS4121P2000FT	2000	2	🔥	2	183.000	1122923
MS4121P3000FT	3000	2	🔥	3	151.300	1122924
MS4121P6000FT	6000	2	🔥	6	184.000	1122926



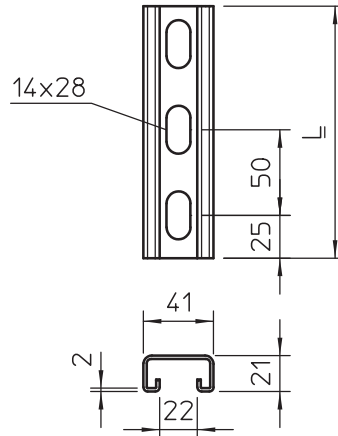


MS4121 mounting rail, slot 22 mm, perforated

Type	Length mm	Material		Pack Piece	Weight kg/100 pc.	Item no.
		thickness mm	BS			
MS4121P0200FS	200	2	🔥	1	35.000	1122950
MS4121P0300FS	300	2	🔥	1	52.500	1122951
MS4121P0400FS	400	2	🔥	1	70.000	1122953
MS4121P0500FS	500	2	🔥	1	87.500	1122955
MS4121P0600FS	600	2		1	105.000	1122956
MS4121P0700FS	700	2		1	122.500	1122958
MS4121P0800FS	800	2		1	134.000	1122957
MS4121P0900FS	900	2		1	126.800	1122959
MS4121P0200FT	200	2	🔥	1	35.100	1122933
MS4121P0300FT	300	2	🔥	1	53.000	1122934
MS4121P0400FT	400	2	🔥	1	70.000	1122935
MS4121P0500FT	500	2	🔥	1	87.000	1122936
MS4121P0600FT	600	2		1	105.000	1122937
MS4121P0700FT	700	2		1	123.000	1122938
MS4121P0800FT	800	2		1	140.000	1122939
MS4121P0900FT	900	2		1	158.000	1122940



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.

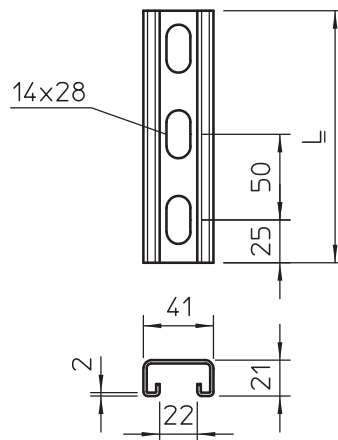


MS4121 mounting rail, slot 22 mm, perforated

Type	Length mm	Material		Pack m	Weight kg/100 m	Item no.
		thickness mm				
MS4121P2000A2	2000	2		2	140.950	1122925
MS4121P3000A2	3000	2		3	185.340	1122928
MS4121P6000A2	6000	2		6	140.950	1122929
MS4121P2000A4	2000	2		2	175.000	1122476
MS4121P3000A4	3000	2		3	172.670	1122931
MS4121P6000A4	6000	2		6	172.670	1122932



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.



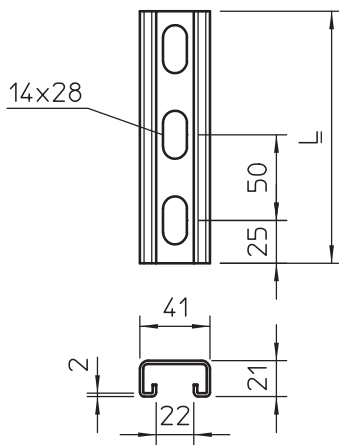
MS4121P mounting rail, slot 22 mm, perforated



Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
MS4121P0500A2	500	2	1	84.000	1122930

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.

Dimensions



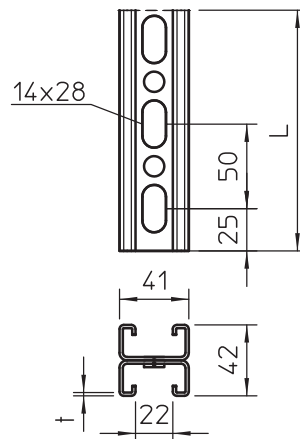
Type	Dimension W x H mm	Dim. L mm
MS4121P0500A2	41x21	50

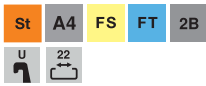
MS4142 mounting rail, slot 22 mm, double, perforated



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).

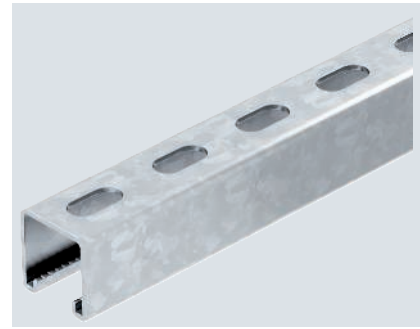
Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS4142P3000FS	3000	2	3	303.000	1122947
MS4142P6000FS	6000	2	6	303.000	1122948
MS4142P3000FT	3000	2	3	303.000	1122944
MS4142P6000FT	6000	2	6	303.000	1122945
MS4142P6000A2	6000	2	6	283.800	1122954



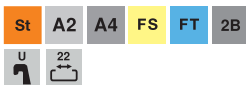
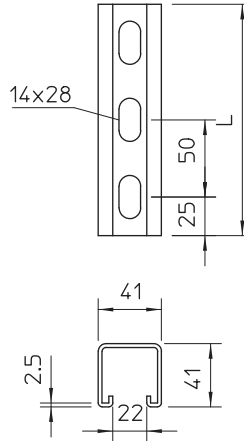


MS4141 mounting rail, slot 22 mm, perforated

Type	Length mm	Material thickness mm	BS	Pack m	Weight kg/100 m	Item no.
MS4141P1000FS	1000	2.5		1	247.500	1122908
MS4141P3000FS	3000	2.5		3	247.500	1122910
MS4141P6000FS	6000	2.5		6	247.500	1122912
MS4141P1000FT	1000	2.5		1	261.400	1122606
MS4141P3000FT	3000	2.5		3	261.400	1122622
MS4141P6000FT	6000	2.5		6	260.670	1122657
MS4141P3000A4	3000	2.5		3	247.500	1123049
MS4141P6000A4	6000	2.5		6	247.500	1123051

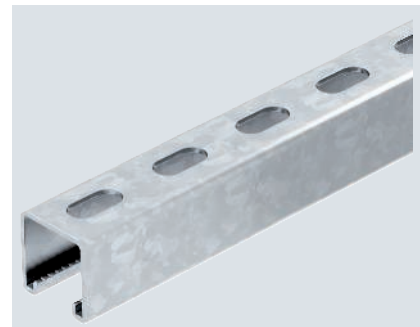


Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

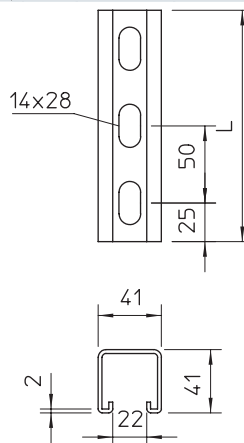


MSL4141 mounting rail, slot 22 mm, perforated

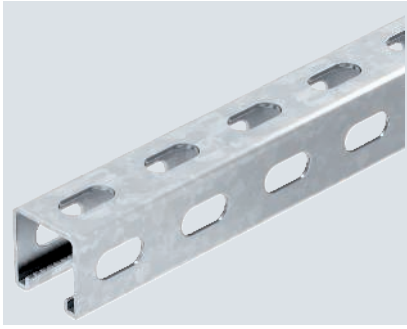
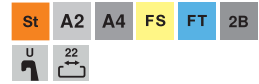
Type	Length mm	Material thickness mm	BS	Pack m	Weight kg/100 m	Item no.
MSL4141P1000FS	1000	2		1	201.100	1122970
MSL4141P3000FS	3000	2		3	201.100	1122972
MSL4141P6000FS	6000	2		6	201.100	1122974
MSL4141P1000FT	1000	2		1	214.700	1122962
MSL4141P3000FT	3000	2		3	214.700	1122964
MSL4141P6000FT	6000	2		6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



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.

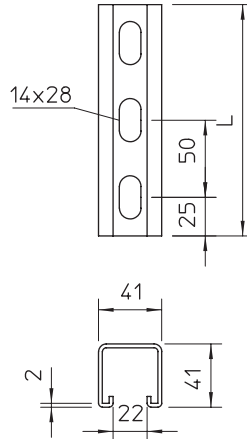


MS4141 mounting rail, slot 22 mm, side perforation

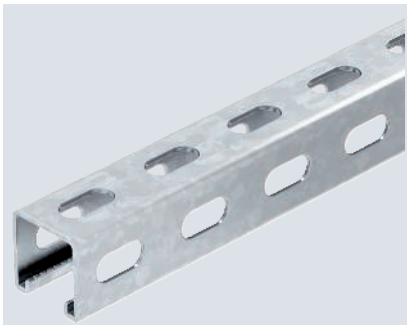
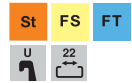


Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MSL4141PP1000FS	1000	2	1	179.400	1123008
MSL4141PP3000FS	3000	2	3	179.400	1123010
MSL4141PP6000FS	6000	2	6	179.400	1123012
MSL4141PP1000FT	1000	2	1	191.500	1123001
MSL4141PP3000FT	3000	2	3	191.500	1123003
MSL4141PP6000FT	6000	2	6	191.500	1123005
MSL4141PP1000A2	1000	2	1	179.400	1123014
MSL4141PP3000A2	3000	2	3	179.400	1123016
MSL4141PP6000A2	6000	2	6	179.400	1123018
MSL4141PP1000A4	1000	2	1	179.400	1123021
MSL4141PP3000A4	3000	2	3	179.400	1123023
MSL4141PP6000A4	6000	2	6	179.400	1123025

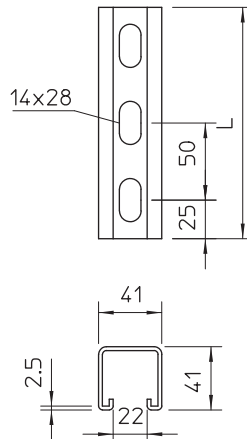


MS4141 mounting rail, slot 22 mm, side perforation



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.

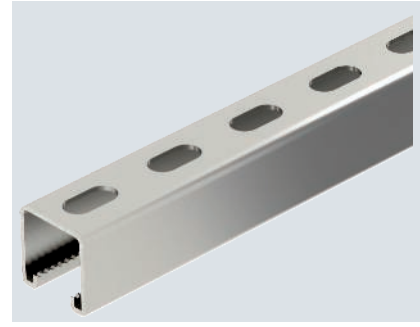
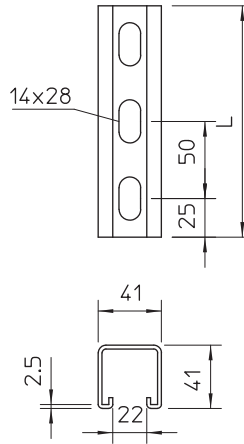
Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS4141PP1000FS	1000	2.5	1	281.000	1122481
MS4141PP3000FS	3000	2.5	3	218.000	1122914
MS4141PP6000FS	6000	2.5	6	218.340	1122916
MS4141PP1000FT	1000	2.5	1	225.000	1122479
MS4141PP3000FT	3000	2.5	3	233.340	1122483
MS4141PP6000FT	6000	2.5	6	225.000	1122487





MS4141 mounting rail, slot 22 mm, perforated

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
MS4141P0300A4	300	2.5	1	72.000	1123033
MS4141P0400A4	400	2.5	1	98.000	1123035

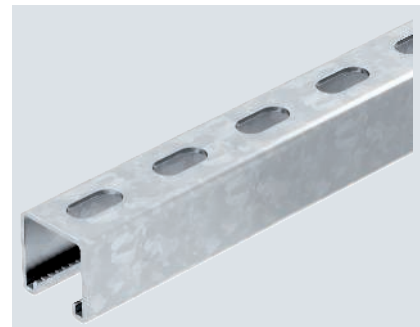
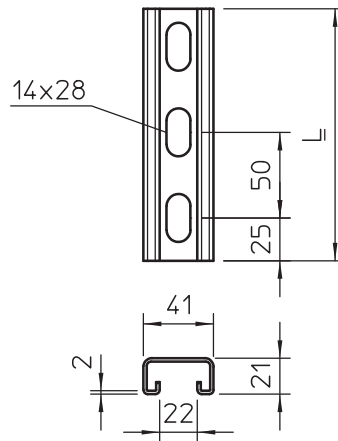


Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.



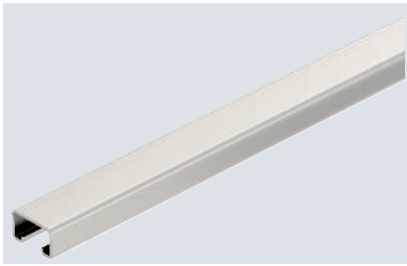
MSL4141 mounting rail, slot 22 mm, perforated

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
MSL4141P0200FS	200	2	1	40.400	1123262
MSL4141P0300FS	300	2	1	60.600	1123264
MSL4141P0400FS	400	2	1	80.800	1123266
MSL4141P0500FS	500	2	1	101.000	1123268
MSL4141P0600FS	600	2	1	121.000	1123270
MSL4141P0700FS	700	2	1	141.000	1123272
MSL4141P0800FS	800	2	1	162.000	1123274
MSL4141P0900FS	900	2	1	182.000	1123276



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.

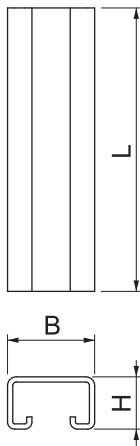
MS5030 mounting rail, slot 22 mm



Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS5030UP2000FT	2000	3	20	307.000	1121524
MS5030UP6000FT	6000	3	6	307.000	1121529
MS5030UP6000BK	6000	3	6	290.000	1121502

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.

Dimensions

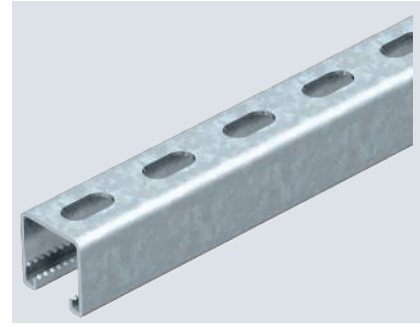


Type	Dimension W x H mm	Dim. L mm
MS5030UP2000FT	50x30	2000
MS5030UP6000FT	50x30	6000
MS5030UP6000BK	50x30	6000



MS4141 mounting rail, slot 22 mm, perforated

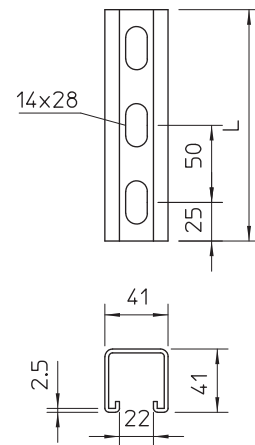
Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
MS4141P0200FT	200	2.5	1	52.400	1122509
MS4141P0300FT	300	2.5	1	78.500	1122517
MS4141P0400FT	400	2.5	1	104.700	1122525
MS4141P0500FT	500	2.5	1	130.800	1122533
MS4141P0600FT	600	2.5	1	156.900	1122541
MS4141P0700FT	700	2.5	1	183.000	1122568
MS4141P0800FT	800	2.5	1	209.200	1122576
MS4141P0900FT	900	2.5	1	235.300	1122584



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.

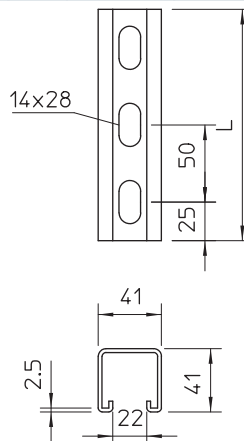
Type	Dimension W x H mm	Dim. L mm
MS4141P0200FT	41x41	200
MS4141P0300FT	41x41	300
MS4141P0400FT	41x41	400
MS4141P0500FT	41x41	500
MS4141P0600FT	41x41	600
MS4141P0700FT	41x41	700
MS4141P0800FT	41x41	800
MS4141P0900FT	41x41	900

Dimensions



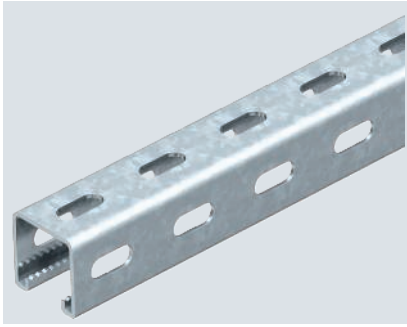
MS4141 mounting rail, slot 22 mm, perforated

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
MS4141P0600A4	600	2.5	1	147.000	1123039



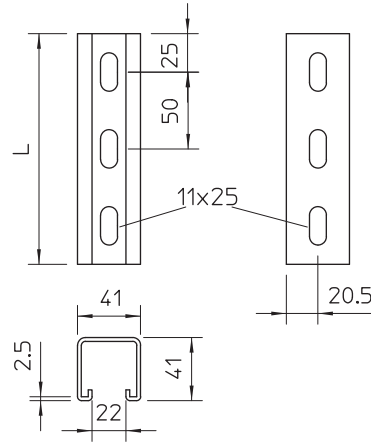
Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

MS4141PP mounting rail, slot 22 mm, perforated

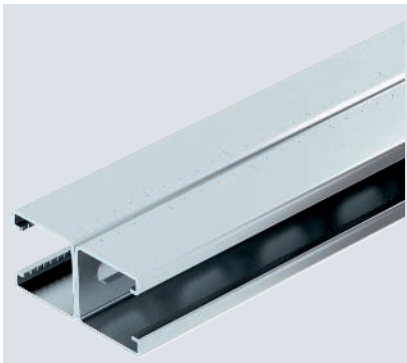


Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
MS4141PP0300FT	300	2.5	1	67.000	1122500
MS4141PP0400FT	400	2.5	1	90.000	1122501

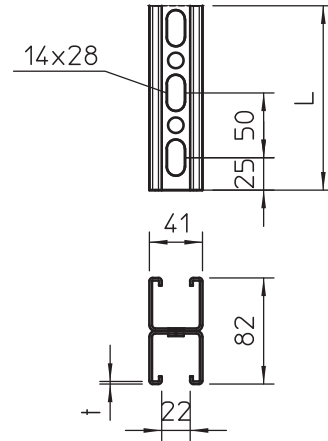


MS4182 mounting rail, slot 22 mm, double, perforated



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).

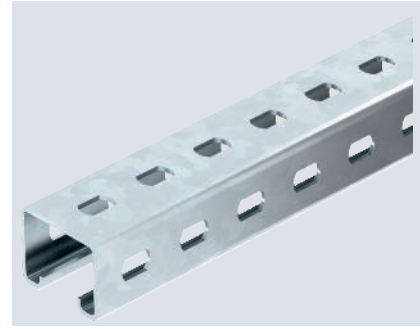
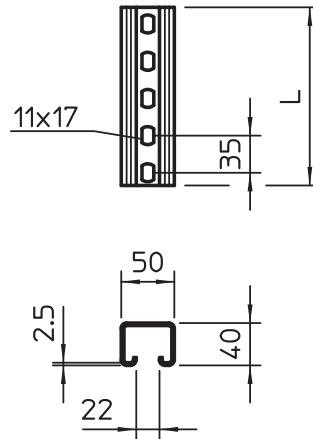
Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS4182P3000FS	3000	2	3	402.200	1122676
MS4182P6000FS	6000	2	6	402.200	1122678
MS4182P3000FT	3000	2	3	402.200	1122671
MS4182P6000FT	6000	2	6	402.200	1122673
MS4182P3000A2	3000	2	3	402.200	1122682
MS4182P6000A2	6000	2	6	402.200	1122684





MS5040P mounting rail, slot 22 mm, perforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS5040P3000FT	3000	2.5	3	255.000	1111560

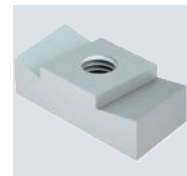
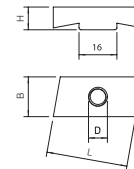


Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

Accessories, mounting rails



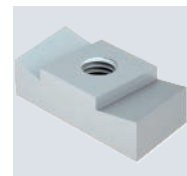
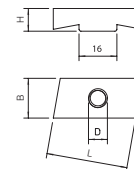
Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS40SN M6 ZL	35	17	10	M6	50	3.750	1147106
MS40SN M8 ZL	35	17	10	M8	50	3.600	1147110
MS40SN M10 ZL	35	17	10	M10	50	3.400	1147114
MS40SN M12 ZL	35	17	11.5	M12	50	3.160	1147118



Slide nut for use with MS4022 profile rail



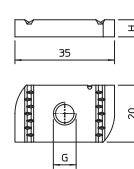
Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS40SN M6 A4	35	17	10	M6	50	3.750	1147126
MS40SN M8 A4	35	17	10	M8	50	3.600	1147130
MS40SN M10 A4	35	17	10	M10	50	3.400	1147134
MS40SN M12 A4	35	17	11.5	M12	50	3.160	1147138



Slide nut for use with MS4022 profile rail



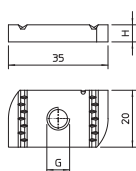
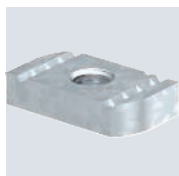
Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS41SN M6 ZL	35	20	6	M6	50	2.880	1147206
MS41SN M8 ZL	35	20	6	M8	50	2.800	1147210
MS41SN M10 ZL	35	20	8	M10	50	3.650	1147214
MS41SN M12 ZL	35	20	9.5	M12	50	4.200	1147218



Slide nut for use with MS4121 und MS4141 profile rails

Slide nut

A4 2B

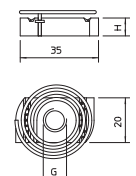


Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS41SN M6 A4	35	20	6	M6	50	2.880	1147226
MS41SN M8 A4	35	20	6	M8	50	2.800	1147230
MS41SN M10 A4	35	20	8	M10	50	3.650	1147234
MS41SN M12 A4	35	20	9.5	M12	50	4.200	1147238

Slide nut for use with MS4121 und MS4141 profile rails

Slide nut with spring

St F

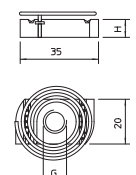


Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS41SNF M6 F	35	20	6	M6	50	3.200	1147306
MS41SNF M8 F	35	20	6	M8	50	3.150	1147310
MS41SNF M10 F	35	20	8	M10	50	4.000	1147314
MS41SNF M12 F	35	20	9.5	M12	50	4.550	1147318

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

Slide nut with spring

A4 2B

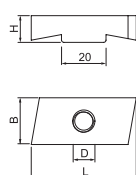
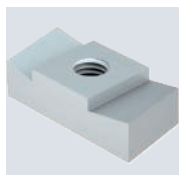


Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS41SNF M6 A4	35	20	6	M6	50	3.200	1147336
MS41SNF M8 A4	35	20	6	M8	50	3.150	1147340
MS41SNF M10 A4	35	20	8	M10	50	4.000	1147344
MS41SNF M12 A4	35	20	9.5	M12	50	4.550	1147348

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

Slide nut

St ZL

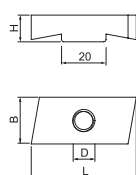
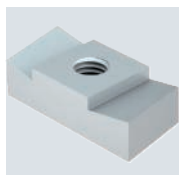


Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS50SN M6 ZL	43	21	12	M6	50	6.700	1147156
MS50SN M8 ZL	43	21	12	M8	50	6.550	1147160
MS50SN M10 ZL	43	21	12	M10	50	6.350	1147164
MS50SN M12 ZL	43	21	12	M12	50	6.100	1147168

Slide nut for use with MS5030 profile rail

Slide nut

A4 2B



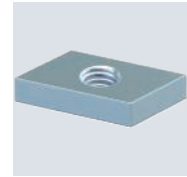
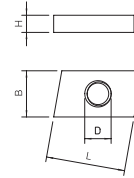
Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS50SN M6 A4	43	21	12	M6	50	6.700	1147172
MS50SN M8 A4	43	21	12	M8	50	6.550	1147186
MS50SN M10 A4	43	21	12	M10	50	6.350	1147190
MS50SN M12 A4	43	21	12	M12	50	6.100	1147194

Slide nut for use with MS5030 profile rail

St ZL

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
ACMSN M6 ZL	26	16.5	4	M6	100	1.212	1147056
ACMSN M8 ZL	26	16.5	5	M8	100	1.640	1147060
ACMSN M10 ZL	26	16.5	6	M10	100	1.300	1147064

Slide nut for use with CM3015, CM3518 and AM3518 profile rails

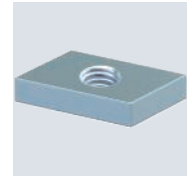
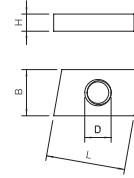


Slide nut

A4 2B

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
ACMSN M6 A4	26	16.5	4	M6	100	1.650	1147076
ACMSN M8 A4	26	16.5	5	M8	100	1.600	1147080
ACMSN M10 A4	26	16.5	6	M10	100	1.500	1147084

Slide nut for use with CM3015, CM3518 and AM3518 profile rails

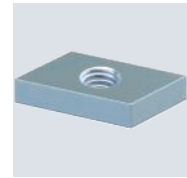
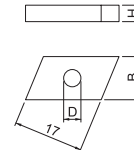


Slide nut

St ZL

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
CL20SN M4 ZL	17	10.5	4	M4	100	0.525	1147008
CL20SN M5 ZL	17	10.5	4	M5	100	0.508	1147012
CL20SN M6 ZL	17	10.5	4	M6	100	0.503	1147016

Slide nut for use with CL2008 profile rail

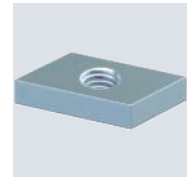
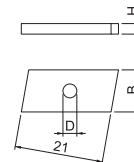


Slide nut

St ZL

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
CL27SN M4 ZL	21	10	2.5	M4	100	0.400	1147020
CL27SN M5 ZL	24.5	13	4	M5	100	0.870	1147024
CL27SN M6 ZL	24.5	13	4	M6	100	0.850	1147028
CL27SN M8 ZL	24.5	13	4	M8	100	0.800	1147032

Slide nut for use with CL2712 profile rail



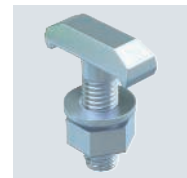
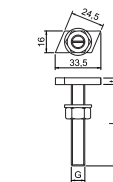
Slide nut

St ZL

18

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS40HB M6x30 ZL	35	17	10	M6x30mm	50	4.800	1148106
MS40HB M8x30 ZL	35	17	10	M8x30mm	50	5.650	1148110
MS40HB M8x60 ZL	35	17	10	M8x60mm	25	6.850	1148114
MS40HB M10x30 ZL	35	14	7.5	M10x30mm	50	6.000	1148118
MS40HB M10x60 ZL	35	14	7.5	M10x60mm	25	7.850	1148122
MS40HB M12x30 ZL	35	14	7.5	M12x30mm	50	7.550	1148126
MS40HB M12x60 ZL	35	14	7.5	M12x60mm	25	10.250	1148130

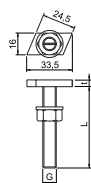
Hook-head screw for use with MS4022 profile rail



Hook-head screw

Hook-head screw

A4 2B
18

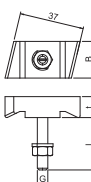


Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS40HB M6x30 A4	35	17	10	M6x30mm	50	4.800	1148146
MS40HB M8x30 A4	35	17	10	M8x30mm	50	5.650	1148150
MS40HB M8x60 A4	35	17	10	M8x60mm	25	6.850	1148154
MS40HB M10x30 A4	35	14	7.5	M10x30mm	50	6.000	1148160
MS40HB M10x60 A4	35	14	7.5	M10x60mm	25	7.850	1148164
MS40HB M12x30 A4	35	14	7.5	M12x30mm	50	7.550	1148168
MS40HB M12x60 A4	35	14	7.5	M12x60mm	25	9.320	1148170

Hook-head screw for use with MS4022 profile rail

Hook-head screw

St ZL
22

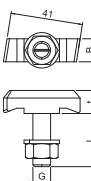


Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS50HB M6x30 ZL	43	21	12	M6x30mm	50	7.800	1148206
MS50HB M8x30 ZL	43	21	12	M8x30mm	50	8.700	1148210
MS50HB M8x60 ZL	43	21	12	M8x60mm	25	9.900	1148214
MS50HB M10x30 ZL	43.3	13	10	M10x30mm	50	7.700	1148218
MS50HB M10x60 ZL	43.3	13	10	M10x60mm	25	9.450	1148222
MS50HB M12x30 ZL	43.3	13	10	M12x30mm	50	9.000	1148226
MS50HB M12x60 ZL	43.3	13	10	M12x60mm	25	11.650	1148230

Hook-head screw for use with MS5030 profile rail

Hook-head screw

A4 2B
22

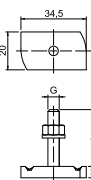
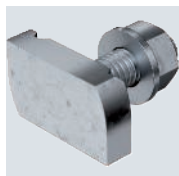


Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS50HB M6x30 A4	43	21	12	M6x30mm	50	7.800	1148256
MS50HB M8x30 A4	43	21	12	M8x30mm	50	8.700	1148260
MS50HB M8x60 A4	43	21	12	M8x60mm	25	9.900	1148264
MS50HB M10x30 A4	43.3	13	10	M10x30mm	50	7.700	1148268
MS50HB M10x60 A4	43.3	13	10	M10x60mm	25	9.450	1148272
MS50HB M12x30 A4	43.3	13	10	M12x30mm	50	9.000	1148276
MS50HB M12x60 A4	43.3	13	10	M12x60mm	25	11.650	1148280

Hook-head screw for use with MS5030 profile rail

Hammer-head bolt

St ZL
22



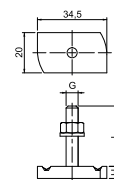
Type	Length mm	Width mm	Height mm	Thread	Torque Nm	Pack Piece	Weight kg/100 pc.	Item no.
MS41HB M6x30 ZL	34.5	20	6	M6x30	3.3	50	4.000	1148306
MS41HB M8x30 ZL	34.5	20	6	M8x30	8	50	4.850	1148310
MS41HB M8x60 ZL	34.5	20	6	M8x60	8	25	6.000	1148314
MS41HB M8x100 ZL	34.5	20	6	M8x100	8	20	7.600	1148318
MS41HB M10x30 ZL	34.5	20	8	M10x30	16	50	7.400	1148322
MS41HB M10x60 ZL	34.5	20	8	M10x60	16	25	9.250	1148326
MS41HB M10x100ZL	34.5	20	8	M10x100	16	20	11.700	1148330
MS41HB M12x30 ZL	34.5	20	9	M12x30	27	50	9.750	1148334
MS41HB M12x60 ZL	34.5	20	9	M12x60	27	25	12.400	1148338
MS41HB M12x100ZL	34.5	20	9	M12x100	27	20	15.950	1148342

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

A4 2B

Hammer-head bolt

Type	Length mm	Width mm	Height mm	Thread	Torque Nm	Pack Piece	Weight kg/100 pc.	Item no.
MS41HB M6x30 A4	34.5	20	6	M6x30	3.4	50	4.000	1148406
MS41HB M8x30 A4	34.5	20	6	M8x30	6.2	50	4.800	1148410
MS41HB M8x60 A4	34.5	20	6	M8x60	6.2	25	6.000	1148414
MS41HB M8x100 A4	34.5	20	6	M8x100	6.2	20	7.550	1148418
MS41HB M10x30 A4	34.5	20	8	M10x30	9.9	50	7.350	1148422
MS41HB M10x60 A4	34.5	20	8	M10x60	9.9	25	9.200	1148426
MS41HB M10x100A4	34.5	20	8	M10x100	9.9	20	11.650	1148430
MS41HB M12x30 A4	34.5	20	9	M12x30	14.4	50	9.700	1148434
MS41HB M12x60 A4	34.5	20	9	M12x60	14.4	25	12.400	1148438
MS41HB M12x100A4	34.5	20	9	M12x100	14.4	20	15.900	1148442

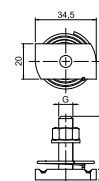


Hammer-head bolt for use with MS4121 and MS4141 profile rails

St FT

Hammer-head bolt with spring

Type	Length mm	Width mm	Height mm	Thread	Torque Nm	Pack Piece	Weight kg/100 pc.	Item no.
MS41HBF M8x30 FT	34.5	20	6	M8x30	8	50	5.200	1148376
MS41HBF M8x60 FT	34.5	20	6	M8x60	8	25	6.300	1148380
MS41HBF M10x30FT	34.5	20	8	M10x30	16.1	50	7.700	1148384
MS41HBF M10x60FT	34.5	20	8	M10x60	16.1	25	9.550	1148388
MS41HBF M12x30FT	34.5	20	9	M12x30	27	50	10.000	1148392
MS41HBF M12x60FT	34.5	20	9	M12x60	27	25	12.700	1148396



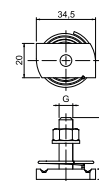
Hammer-head bolt with spring for use with MS4121 and MS4141 profile rails

A4 2B



Hammer-head bolt with spring

Type	Length mm	Width mm	Height mm	Thread	Torque Nm	Pack Piece	Weight kg/100 pc.	Item no.
MS41HBF M8x30 A4	34.5	20	6	M8x30	6.2	50	4.800	1148476
MS41HBF M8x60 A4	34.5	20	6	M8x60	6.2	25	5.950	1148480
MS41HBF M10x30A4	34.5	20	8	M10x30	9.9	50	7.350	1148484
MS41HBF M10x60A4	34.5	20	8	M10x60	9.9	25	9.200	1148488
MS41HBF M12x30A4	34.5	20	9	M12x30	14.4	50	9.700	1148492
MS41HBF M12x60A4	34.5	20	9	M12x60	14.4	25	12.400	1148496



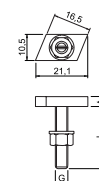
Hammer-head bolt with spring for use with MS4121 and MS4141 profile rails

St ZL



Hammer-head bolt

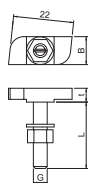
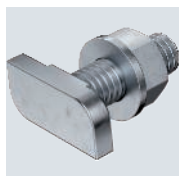
Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
CL20HB M5x25 ZL	21.1	10.5	4	M5x25mm	50	1.100	1148008
CL20HB M6x25 ZL	21.1	10.5	4	M6x25mm	50	1.420	1148012
CL20HB M8x25 ZL	21.1	10.5	4	M8x25mm	50	2.150	1148016



Hammer-head bolt for use with CL2008 profile rail

Hammer-head bolt

St ZL
11

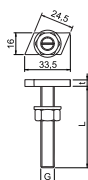
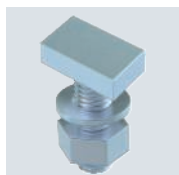


Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
CL27HB M5x25 ZL	23	10.1	4	M 5 x 25mm	50	1.250	1148020
CL27HB M6x25 ZL	23	10.1	4	M 6 x 25mm	50	1.570	1148024
CL27HB M8x25 ZL	23	10.1	4	M 8 x 25mm	50	2.300	1148028

Hammer-head bolt for use with CL2712 profile rail

Hammer-head bolt

St ZL
17

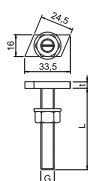
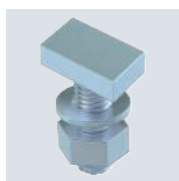


Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
ACMHB M6x30 ZL	33.5	16	5	M 6 x 30mm	50	2.600	1148056
ACMHB M8x30 ZL	33.5	16	5	M 8 x 30mm	50	3.197	1148060
ACMHB M8x60 ZL	33.5	16	5	M 8 x 60mm	25	4.650	1148064
ACMHB M10x30 ZL	33.5	16	6	M 10 x 30mm	50	4.950	1148068
ACMHB M10x60 ZL	33.5	16	6	M 10 x 60mm	25	6.750	1148072

Hammer-head bolt for use with CM3015, CM3518 and AM3518 profile rails

Hammer-head bolt

A4 2B
17

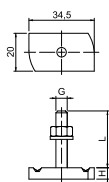


Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
ACMHB M6x30 A4	33.5	16	5	M 6 x 30mm	50	2.600	1148076
ACMHB M8x30 A4	33.5	16	5	M 8 x 30mm	50	3.450	1148080
ACMHB M8x60 A4	33.5	16	5	M 8 x 60mm	25	4.650	1148084
ACMHB M10x30 A4	33.5	16	6	M 10 x 30mm	50	4.950	1148088
ACMHB M10x60 A4	33.5	16	6	M 10 x 60mm	25	6.240	1148092

Hammer-head bolt for use with CM3015, CM3518 and AM3518 profile rails

Hammer-head bolt

St ZL
22



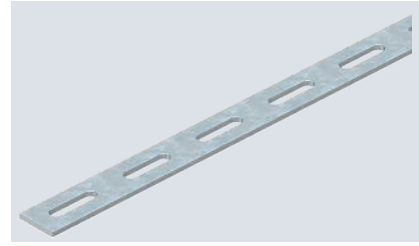
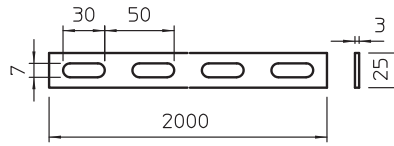
Type	Length mm	Width mm	Height mm	Thread	Torque Nm	Pack Piece	Weight kg/100 pc.	Item no.
MS41HB M8x20 ZL	34.5	20	6	M8x20	8	25	4.400	1148350

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

St SG

SL42 construction and suspension profile

Type	Dimension mm	Length mm	Pack m	Weight kg/100 m	Item no.
SLH 42 2000 SG	25x3	2000	2	50.000	7103603

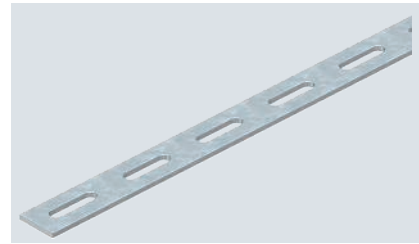
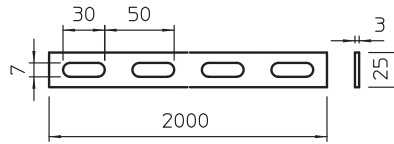


The rail profile is available in unpainted steel on request.
Rail profile of 25 mm side height for welding in trapezoidal rungs.

St FT

SL42 construction and suspension profile

Type	Dimension mm	Length mm	Pack m	Weight kg/100 m	Item no.
SLH 42 2000 FT	25x3	2000	2	51.500	7103611

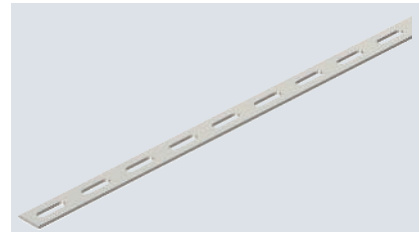
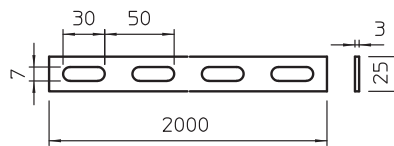


The profile is available in bright steel on request.
Perforated side rail profile of shipbuilding ladders, SL 42, for the creation of suspension and support constructions.

A2 A4 2B

SL42 construction and suspension profile

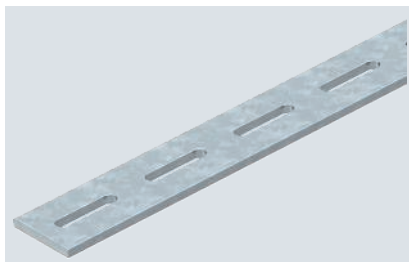
Type	Dimension mm	Length mm	Pack m	Weight kg/100 m	Item no.
SLH 42 2000 A2	25x3	2000	2	50.000	7103620
SLH 42 2000 A4	25x3	2000	2	50.000	7103626



The rail profile is available in unpainted steel on request.
Perforated side rail profile of shipbuilding ladders, SL 42, for the creation of suspension and support constructions.

Construction and suspension profile, SL62

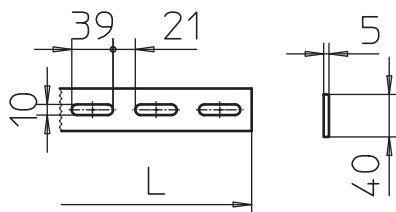
St SG



The rail profile is available in unpainted steel on request.

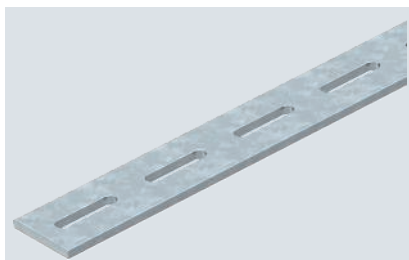
Rail profile of 25 mm side height for welding in trapezoidal rungs.

Type	Dimension mm	Length mm	Pack m	Weight kg/100 m	Item no.
SLH 62 3000 SG	40x5	3000	3	133.000	7103635



Construction and suspension profile, SL62

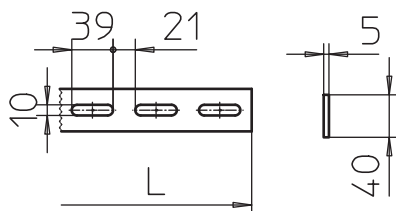
St FT



The profile is available in bright steel on request.

Perforated side rail profile of shipbuilding ladders, SL 62, for the creation of suspension and support constructions.

Type	Dimension mm	Length mm	Pack m	Weight kg/100 m	Item no.
SLH 62 3000 FT	40x5	3000	3	135.700	7103643



Construction and suspension profile, SL62

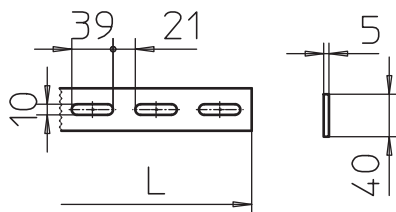
A2 2B



The rail profile is available in unpainted steel on request.

Perforated side rail of ship cable ladder, SL 62, for creation of suspension and support constructions.

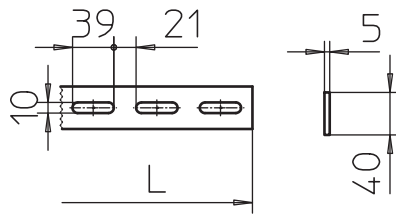
Type	Dimension mm	Length mm	Pack m	Weight kg/100 m	Item no.
SLH 62 3000 A2	40x5	3000	3	133.000	7103650



A4 2B

Construction and suspension profile, SL62

Type	Dimension mm	Length mm	Pack m	Weight kg/100 m	Item no.
SLH 62 3000 A4	40x5	3000	3	133.000	7103656

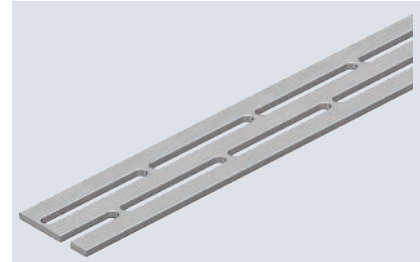
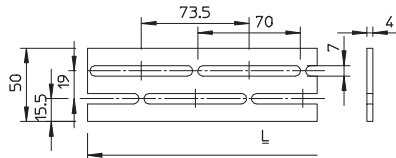


Perforated side rail of ship cable ladder, SL 62, for creation of suspension and support constructions.
The rail profile is available in unpainted steel on request.

St BK

Construction and suspension profile FESP L BK

Type	Dimension mm	Length mm	Pack m	Weight kg/100 m	Item no.
FESP L 50 4 BK	50x4	3000	3	116.000	7104960

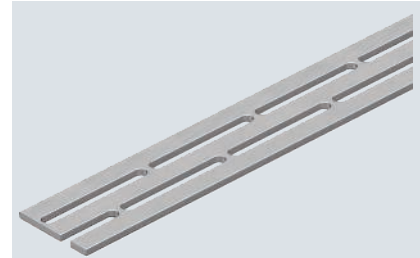
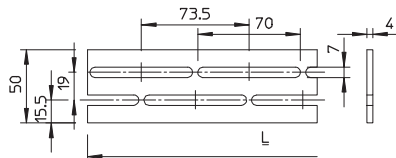


Flat iron profile with double, offset longitudinal hole row for creation of suspension and support constructions.

St FT

Construction and suspension profile FESP L FT

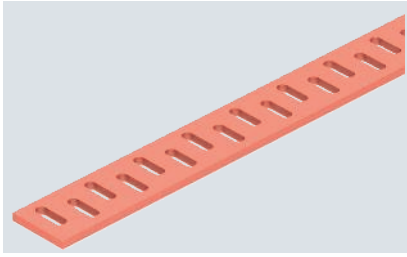
Type	Dimension mm	Length mm	Pack m	Weight kg/100 m	Item no.
FESP L 50 4 FT	50x4	3000	3	118.900	7105002



Flat iron profile with double, offset longitudinal hole row for creation of suspension and support constructions.

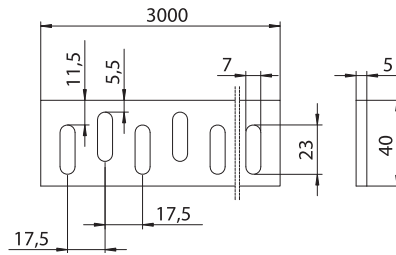
Construction and suspension profile FESP Q SG

St SG



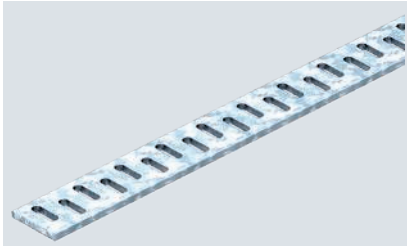
Flat iron profile with double, side-offset slot row to create suspension and support constructions.

Type	Dimension mm	Length mm	Pack m	Weight kg/100 m	Item no.
FESP Q 40 5 SG	40x5	3000	3	123.300	7104358



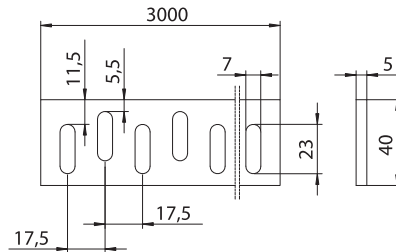
Construction and suspension profile FESP Q FT

St FT



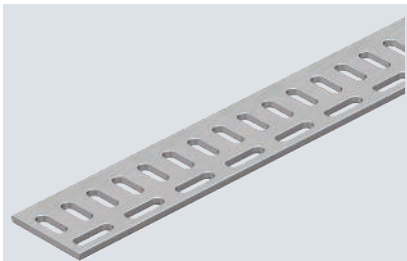
Flat iron profile with double, side-offset slot row to create suspension and support constructions.

Type	Dimension mm	Length mm	Pack m	Weight kg/100 m	Item no.
FESP Q 40 5 FT	40x5	3000	3	130.000	7104358



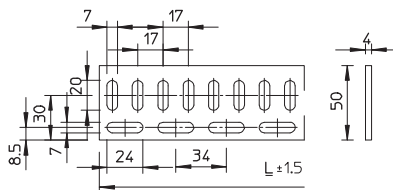
Construction and suspension profile FESP QL BK

St BK



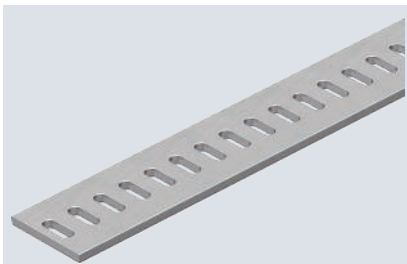
Flat iron profile with transverse and lengthwise slots to create suspended and support constructions.

Type	Dimension mm	Length mm	Pack m	Weight kg/100 m	Item no.
FESP QL 50 4 BK	50x4	3000	3	118.567	7104669



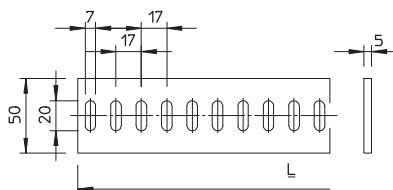
Construction and suspension profile FESP Q BK

St BK



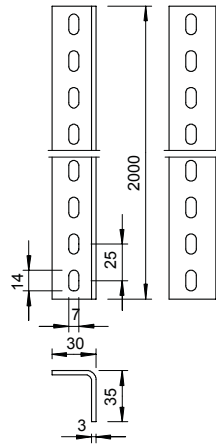
Flat iron profile with slots to create suspensions and support constructions.

Type	Dimension mm	Length mm	Pack m	Weight kg/100 m	Item no.
FESP Q 50 5 BK	50x5	3000	3	166.367	7104367

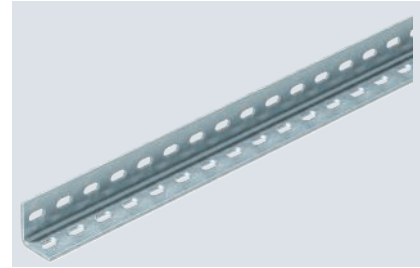


St FT

Type	Length mm	Metal thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
WP 30 35 2000 FT	2000	3.00	1	257.000	6373100
WP 30 35 5000 FT	5000	3.00	1	643.000	6373103



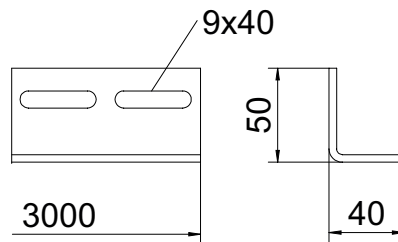
Angle profile WP30/35



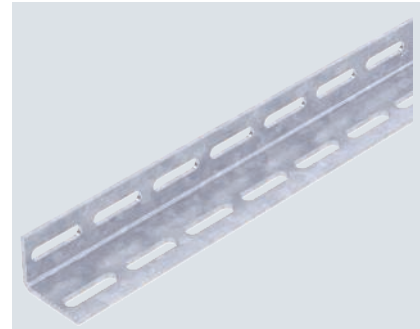
Angle profile, perforated on both sides, for creation of special support structures.

St FT

Type	Length mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
WP 40 50 3000 FT	3000	4.00	3	224.000	6373200



Angle profile WP40/50

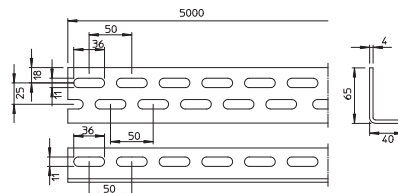


Perforated angle profile for the creation of special support structures.

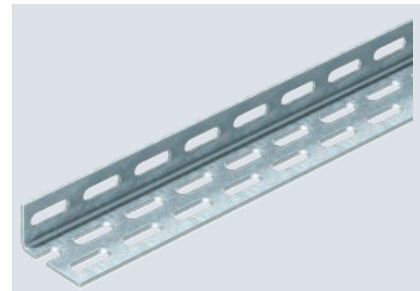
The angle profile can be used to create pendant suspensions.

St FT

Type	Length mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
WP 40 65 5000 FT	5000	4.00	5	250.000	6373070

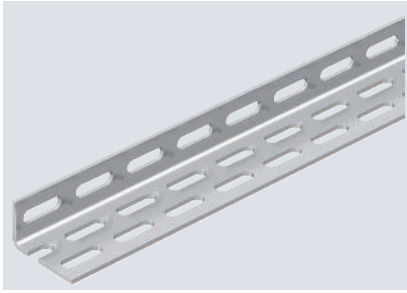


Angle profile WP40/65



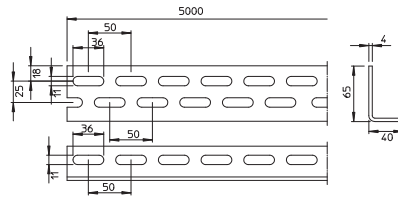
Angle profile, perforated on both sides, for creation of special support structures.

Angle profile WP40/65

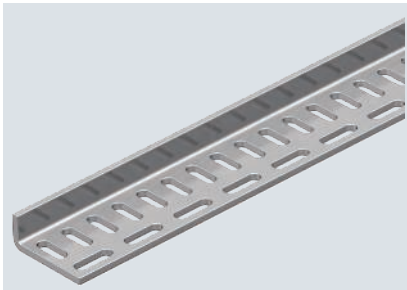


Angle profile, perforated on both sides, for creation of special support structures.

Type	Length mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
WP 40 65 5000 A2	5000	4.00	5	241.600	6373062

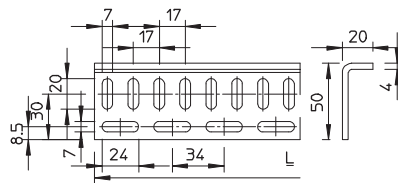


WESP 50 BK angle profile



Angle profile with transverse and longitudinal perforation to create suspension and support constructions.

Type	Length mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
WESP 50 20 BK	3000	4.00	3	159.000	7105665

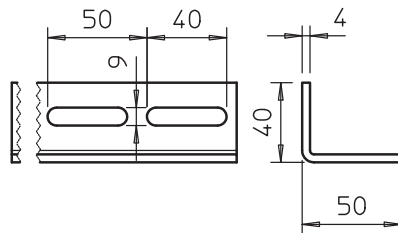


WESP 50 SG angle profile



Angle profile with longitudinal perforation row to create suspension and support constructions.

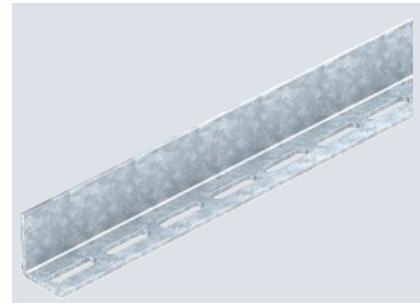
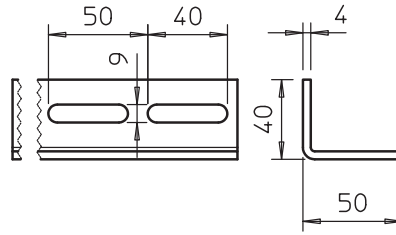
Type	Length mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
WESP 50 40 SG	3000	4.00	3	239.340	7105675



St FT

Angle profile WESP 50

Type	Length mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
WESP 50 40 FT	3000	4.00	3	246.340	7105673



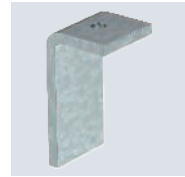
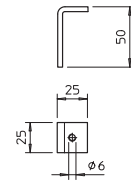
Angle profile with longitudinal perforation row to create suspension and support constructions.

St FT

Welding angle

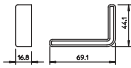
Type	Dimen- sion mm	Pack Piece	Weight kg/100 pc.	Item no.
ASW FT	25x50	10	5.700	6015350

Welding angle for mounting shipbuilding cable ladders and marine trays, for welding to steel structures.



End cap WE 40/65

PE

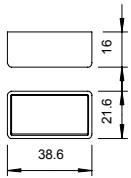
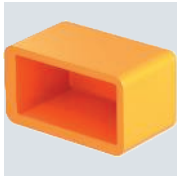


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
WPK SR OR	Pastel orange	20	0.600	6372881
WPK SL OR	Pastel orange	20	0.600	6372898

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

End cap CM3518/AM3518

PE

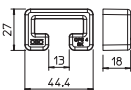


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
CM3518 SK	Pastel orange	50	0.384	1124502

End cap for profile rail types CM3518 and AM3518.

End cap MS4022

PE

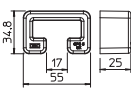


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
MS4022 SK	Pastel orange	25	0.647	1124555

End caps for profile rail, type MS4022.

End cap MS5030

PE

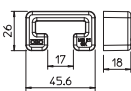


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
MS5030 SK	Pastel orange	25	1.147	1124563

End caps for profile rail, type MS5030.

End cap MS4121

PE



Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
MS4121 SK	Pastel orange	25	0.611	1122902

End cap for profile rail, type MS4121.

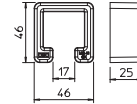
PE



End cap MS4141

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
MS4141 SK	Pastel orange	25	1.212	1122900

End cap for profile rail, type MS4141.

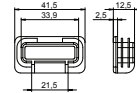


PE

End cap MS4121

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
MS4121 EK	Pastel orange	50	0.645	1122904

End cap for profile rail, type MS4121.

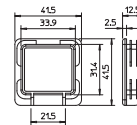


PE

End cap MS4141

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
MS4141 EK	Pastel orange	50	0.670	1122906

End cap for profile rail, type MS4141.

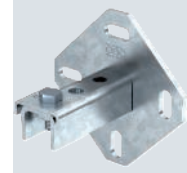
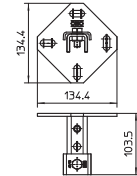


St FT

Wall, floor and ceiling bracket with 3 holes

Type	Version	Dimension W x H mm	Material thickness mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
WBDHE 41 FT	Perforated	134x110	5	102	10	73.000	1123191

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.

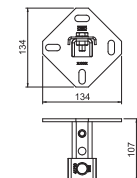


A2 A4 2B

Wall, floor and ceiling bracket with 3 holes

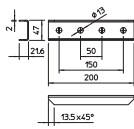
Type	Version	Dimension W x H mm	Material thickness mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
WBDHE 41 A2	Perforated	134x110	5	102	10	73.000	1123195
WBDHE 41 A4	Perforated	134x110	5	102	10	73.000	1123197

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.



Connector

St FT

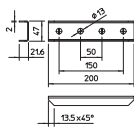


Type	Version	Pack Piece	Weight kg/100 pc.	Item no.
GVMS 4 ASV FT	With continuous perforation 13 mm	10	24.900	1124641

Connector gripping from outside with four holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

Connector

A2 A4 2B

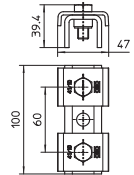
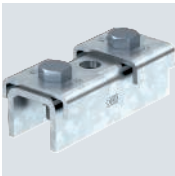


Type	Version	Pack Piece	Weight kg/100 pc.	Item no.
GVMS 4 ASV A2	With continuous perforation 13 mm	10	24.900	1124681
GVMS 4 ASV A4	With continuous perforation 13 mm	10	24.900	1124715

Connector gripping from outside with four holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

Rail connector SV with 3 holes

St FT



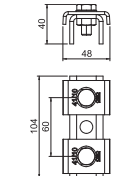
Type	Version	Dimension W x H mm	Material thickness mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
SVE 41 FT	Perforated	47x39,4	4	100	10	42.000	1123121

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.

Rail connector SV with 3 holes

A2 A4 2B



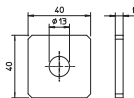
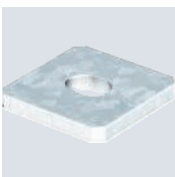
Type	Version	Dimension W x H mm	Material thickness mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
SVE 41 A2	Perforated	47x39,4	4	100	10	42.000	1123126
SVE 41 A4	Perforated	47x39,4	4	100	10	42.000	1123128

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.

Connection plate with 1 hole

St FT



Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 1 VP FT	5	10	7.120	1124643

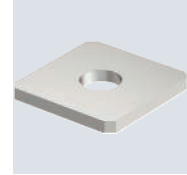
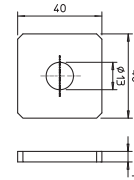
Connection plate with lengthwise slot, for example for mounting threaded rods to profile rails 41 x 41 mm and 41 x 21 mm.

A2 2B

Connection plate with 1 hole

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 1 VP A2	4	10	4.450	1124683

Connection plate with lengthwise slot, for example for mounting threaded rods to profile rails 41 x 41 mm and 41 x 21 mm.

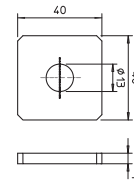


A2 A4 2B

Connection plate with 1 hole

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 1 VP A2	4	10	4.450	1124683
GMS 1 VP A4	4	10	4.450	1124723

Connection plate with lengthwise slot, for example for mounting threaded rods to profile rails 41 x 41 mm and 41 x 21 mm.

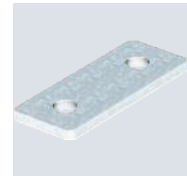
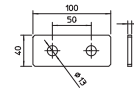


St FT

Connection plate with 2 holes

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 2 VP FT	5	10	14.000	1124645

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

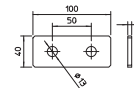


A2 A4 2B

Connection plate with 2 holes

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 2 VP A2	4	10	11.500	1124685
GMS 2 VP A4	4	10	11.500	1124725

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

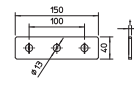


A2 2B

Connection plate with 3 holes

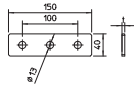
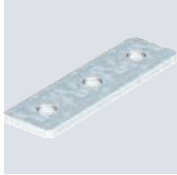
Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 VP A2	4	20	17.200	1124687

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



Connection plate with 3 holes

St FT

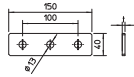


Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 VP FT	5	20	24.010	1124647

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

Connection plate with 3 holes

A2 A4 2B

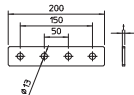


Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 VP A2	4	20	17.200	1124687
GMS 3 VP A4	4	20	17.200	1124727

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

Connection plate with 4 holes

St FT

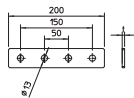


Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 4 VP FT	5	10	35.580	1124649

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

Connection plate with 4 holes

A2 A4 2B

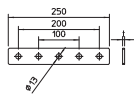


Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 4 VP A2	4	10	23.300	1124689
GMS 4 VP A4	4	10	23.300	1124729

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

Connection plate with 5 holes

St FT



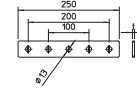
Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 5 VP FT	5	10	40.000	1124651

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

A2 A4 2B

Connection plate with 5 holes

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 5 VP A2	4	10	28.900	1124691
GMS 5 VP A4	4	10	28.900	1124731

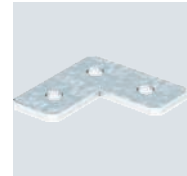
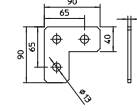


Connection plate with five holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

St FT

Connection plate, L-shaped

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

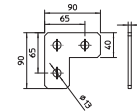


Connection plate with three holes for angled connection of profile rails 41 x 41 mm and 41 x 21 mm.

A2 A4 2B

Connection plate, L-shaped

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 VP L A2	4	10	15.900	1124693
GMS 3 VP L A4	4	10	15.900	1124733

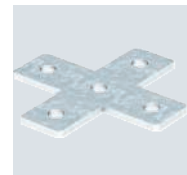
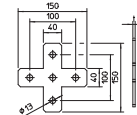


Connection plate with three holes for angled connection of profile rails 41 x 41 mm and 41 x 21 mm.

St FT

Connection plate, X-shaped

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 5 VP X FT	5	10	48.000	1124657

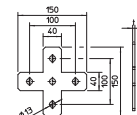


Connection plate with five holes for cross connection of profile rails 41 x 41 mm and 41 x 21 mm.

A2 A4 2B

Connection plate, X-shaped

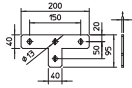
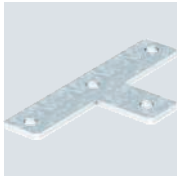
Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 5 VP X A2	4	10	29.600	1124697
GMS 5 VP X A4	4	10	29.600	1124737



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

Connection plate, T-shaped

St FT

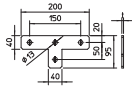


Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 4 VP T FT	5	10	41.000	1124655

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

Connection plate, T-shaped

A2 A4 2B

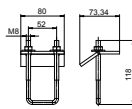


Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 4 VP T A2	4	10	30.200	1124695
GMS 4 VP T A4	4	10	30.200	1124735

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

Clamp

St FT

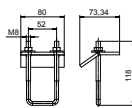


Type	Length mm	Width mm	Height mm	Pack Piece	Weight kg/100 pc.	Item no.
SB MS 41 M8 FT	118	80	74	20	32.300	1124679

Connection element for two-sided fastening of profile rails to steel girders. Fastening is possible independently of the arrangement of the rail opening. The rail length should be at least the width of the steel girder + 2 x 50 mm. Always use in pairs for mounting. For use with profile rail MS4022, MS4141, MS4142, MS4124.

Clamp

A4

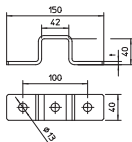


Type	Length mm	Width mm	Height mm	Pack Piece	Weight kg/100 pc.	Item no.
SB MS 41 M8 A4	118	80	74	20	32.300	1124719

Connection element for two-sided fastening of profile rails to steel girders. Fastening is possible independently of the arrangement of the rail opening. The rail length should be at least the width of the steel girder + 2 x 50 mm. Always use in pairs for mounting. For use with profile rail MS4022, MS4141, MS4142, MS4124.

Omega clamp

St FT



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

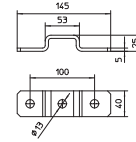
Fastening clip with 3 holes for cross-wise connection of profile rails 41 x 41 mm.

St FT

Omega clamp

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 O 4121 FT	5	10	26.540	1124671

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

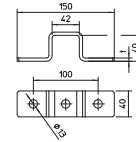


A2 A4 2B

Omega clamp

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 O 4141 A2	5	10	25.400	1124713
GMS 3 O 4141 A4	5	10	25.400	1124753

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

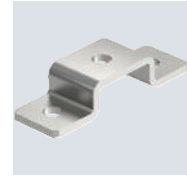
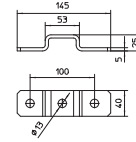


A2 A4 2B

Omega clamp

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 O 4121 A2	4	10	20.900	1124711
GMS 3 O 4121 A4	4	10	20.900	1124751

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

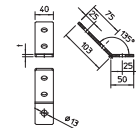


St FT

Mounting bracket, 45° with 3 holes

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

Mounting bracket with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 45°.

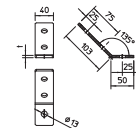


A2 A4 2B

Mounting bracket, 45° with 3 holes

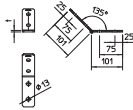
Type	Version	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 VW 45 A2	45° angle	40	10	17.200	1124707
GMS 3 VW 45 A4	45° angle	40	10	17.200	1124747

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

St FT

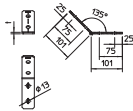


Type	Version	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
GMS 4 VW 45 FT	45° angle	40	10	32.000	1124669

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, 45° with 4 holes

A2 A4 2B

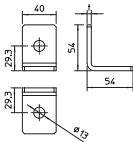
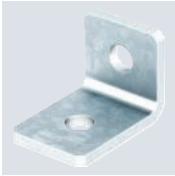


Type	Version	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
GMS 4 VW 45 A2	45° angle	40	10	23.300	1124709
GMS 4 VW 45 A4	45° angle	40	10	23.300	1124749

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

St FT

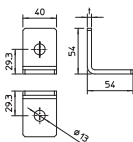


Type	Version	Shipping box Piece	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 2 VW 90 FT	90° angle	60	5	10	14.000	1124659

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 2 holes

A2 2B

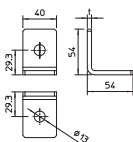


Type	Version	Shipping box Piece	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 2 VW 90 A2	90° angle	60	4	10	11.500	1124699

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 2 holes

A2 A4 2B



Type	Version	Shipping box Piece	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 2 VW 90 A2	90° angle	60	4	10	11.500	1124699
GMS 2 VW 90 A4	90° angle	60	4	10	11.500	1124739

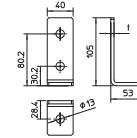
Mounting bracket with two holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

St FT

Mounting bracket, 90° with 3 holes

Type	Version	Shipping box Piece	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 VW 90 FT	90° angle	40	5	10	25.910	1124661

Mounting bracket with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

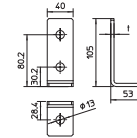


A2 2B

Mounting bracket, 90° with 3 holes

Type	Version	Shipping box Piece	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 VW 90 A2	90° angle	40	4	10	17.700	1124701

Mounting bracket with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

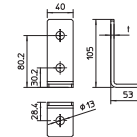


A2 A4 2B

Mounting bracket, 90° with 3 holes

Type	Version	Shipping box Piece	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 VW 90 A2	90° angle	40	4	10	17.700	1124701
GMS 3 VW 90 A4	90° angle	40	4	10	17.700	1124741

Mounting bracket with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

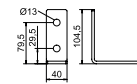


St FT

Mounting bracket, 90° with 4 holes

Type	Version	Shipping box Piece	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 4 VW 90 FT	90° angle	30	5	10	32.000	1124663

Mounting bracket with four holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

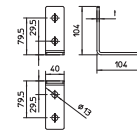


A2 2B

Mounting bracket, 90° with 4 holes

Type	Version	Shipping box Piece	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 4 VW 90 A2	90° angle	30	4	10	23.300	1124703

Mounting bracket with four holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

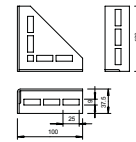


St FT

Triangular node

Type	Pack Piece	Weight kg/100 pc.	Item no.
CM3518 KD FT	25	22.000	6350100

For stable corner fastening of individual mountings.

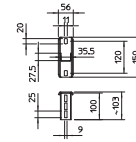


St FT

Head plate

Type	Pack Piece	Weight kg/100 pc.	Item no.
CM3518 KP FT	25	42.000	6350054

For wall and ceiling fastening of individual mountings.



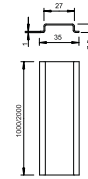
Hat profile and support rail

St BK

Hat profile rail, unperforated

Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 2M BK	Unperforated	1	2000	50	36.040	1115618
2069 3M BK	Unperforated	1	3000	-	36.034	1115855

Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).

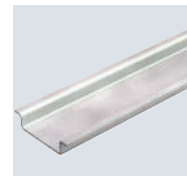
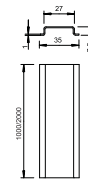


St FS

Hat profile rail, unperforated

Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 1M FS	Unperforated	1	1000	25	36.020	1115677
2069 2M FS	Unperforated	1	2000	50	36.033	1115626

Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).

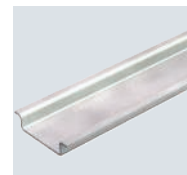
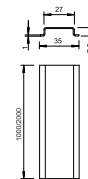


St GTP

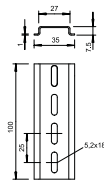
Hat profile rail, unperforated

Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 1M GTP	Unperforated	1	1000	25	36.020	1115685
2069 2M GTP	Unperforated	1	2000	50	36.040	1115650

Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).



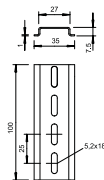
Hat profile rail, perforated



Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 2M GTP	Perforated	1	2000	50	33.280	1115669

Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).

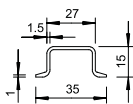
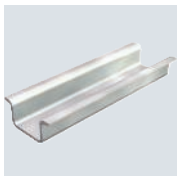
Hat profile rail, perforated



Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 L 2M FS	Perforated	1	2000	50	33.280	1115804

Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).

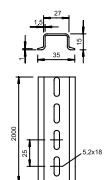
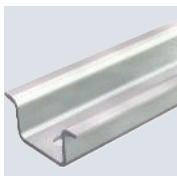
Hat profile rail, unperforated



Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 15 1.5 GTP	Unperforated	1.5	2000	20	66.000	1115421

Hat profile rail 35 x 15 mm similar to DIN EN 60715 (formerly DIN EN 50022), but with material thickness 1.5 mm.

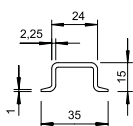
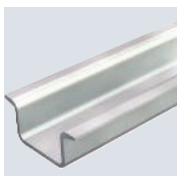
Hat profile rail, perforated



Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 15 1.5 FS	Perforated	1.5	2000	20	64.000	1115460
2069 15 1.5 GTP	Perforated	1.5	2000	20	64.000	1115456

Hat profile rail 35 x 15 mm similar to DIN EN 60715 (formerly DIN EN 50022), but with material thickness 1.5 mm.

Hat profile rail, unperforated



Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 15 2.2 GTP	Unperforated	2.25	2000	20	97.000	1115553

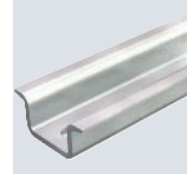
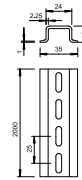
Hat profile rail 35 x 15 mm to DIN EN 60715 (formerly DIN EN 50022).



Hat profile rail, perforated

Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 15 2.2 GTPL	Perforated	2.25	2000	20	97.000	1115596

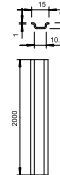
Hat profile rail 35 x 15 mm to DIN EN 60715 (formerly DIN EN 50022).



Hat profile rail unperforated

Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
46277 GTP	Unperforated	1	2000	50	12.400	1115332

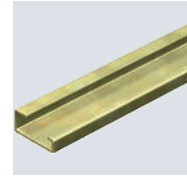
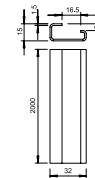
Hat profile rail 15 x 5 mm to DIN EN 60715 (formerly DIN EN 50045).



Support rail, unperforated

Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2064 GTP 2M	Unperforated	1.5	2000	20	70.000	1115057

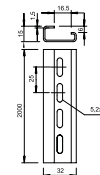
G rail G32 to DIN EN 60715 (previously DIN EN 50035).



Support rail, perforated

Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2064 GTPL 2M	Perforated	1.5	2000	20	69.000	1115065

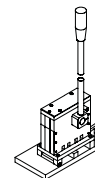
G rail G32 to DIN EN 60715 (previously DIN EN 50035).



Hat profile and support rail cutting unit

Type	Pack Piece	Weight kg/100 pc.	Item no.
HTS 35	1	2,000.000	1125036

With the HTS 35 hat and support rail cutting device, you can cut the four most common hat and support rail profiles (types 2069..., 46277... and 2064...) to fit and without burring in accordance with DIN 50022 and DIN 50035.



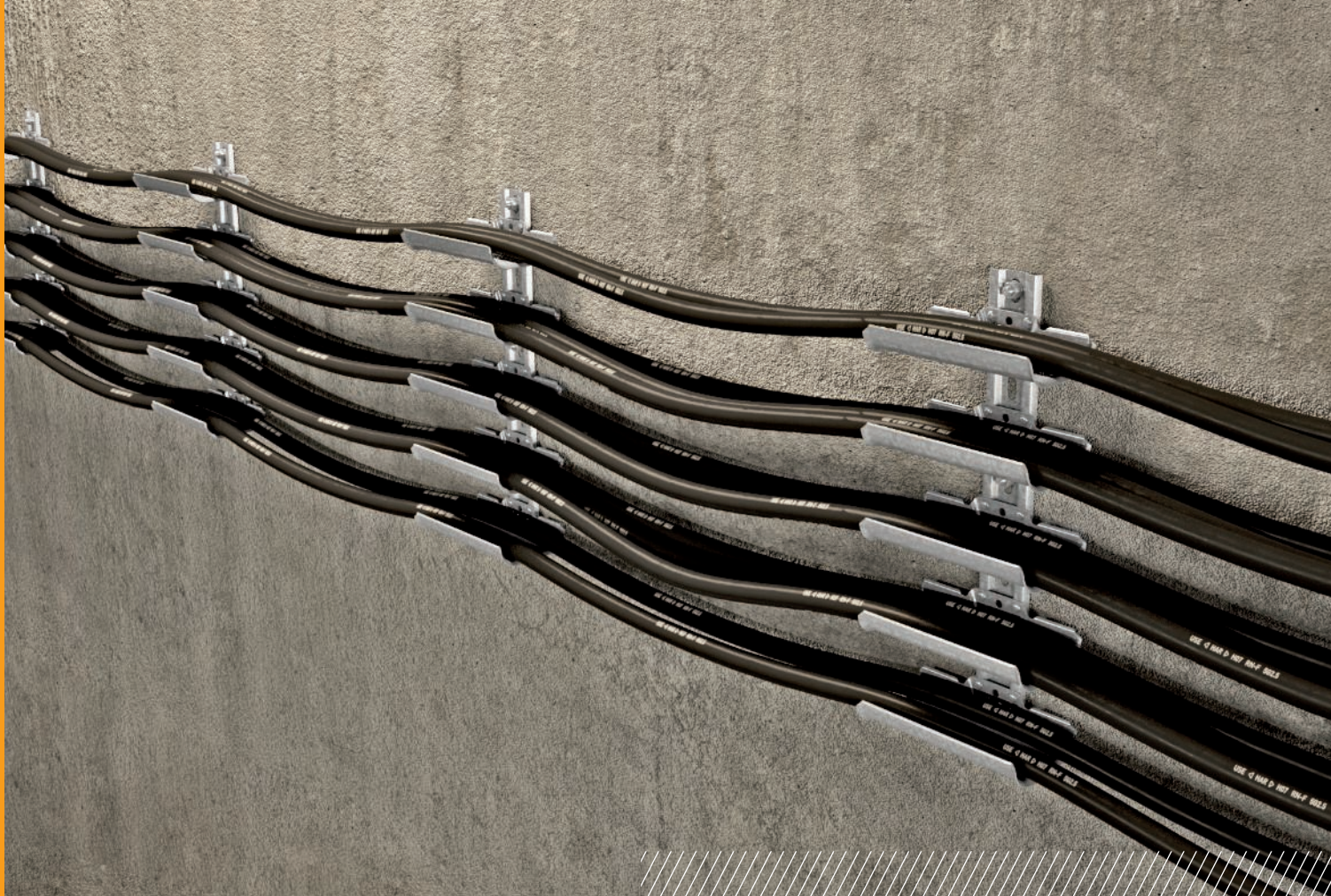
Steel wire tensioning rope 957



Type	Cable		Pack Piece	Weight kg/100 pc.	Item no.
	dia-meter mm	Dim. L mm			
957 2,0x100 G S	2	100000	1	180.000	5303203

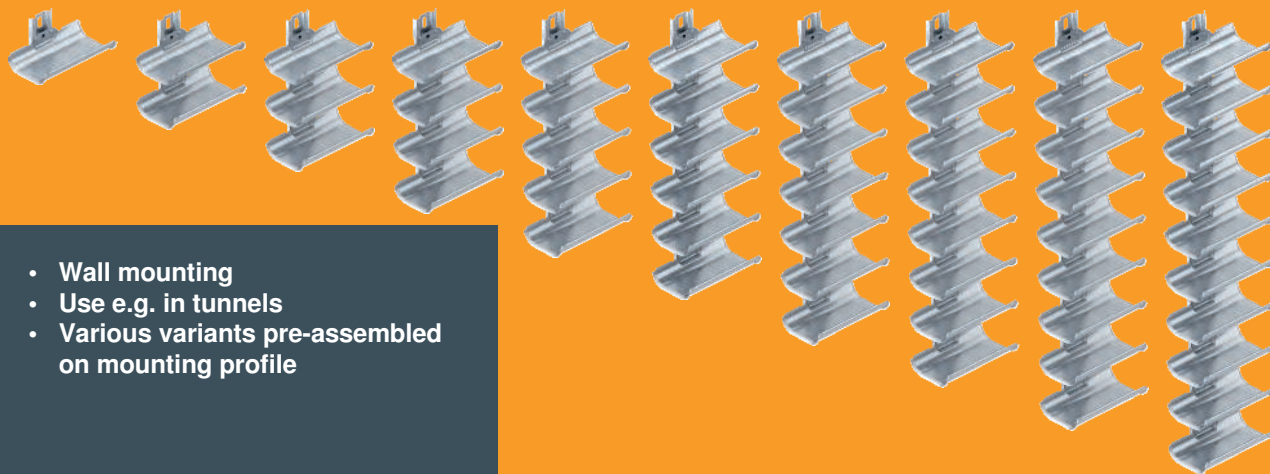
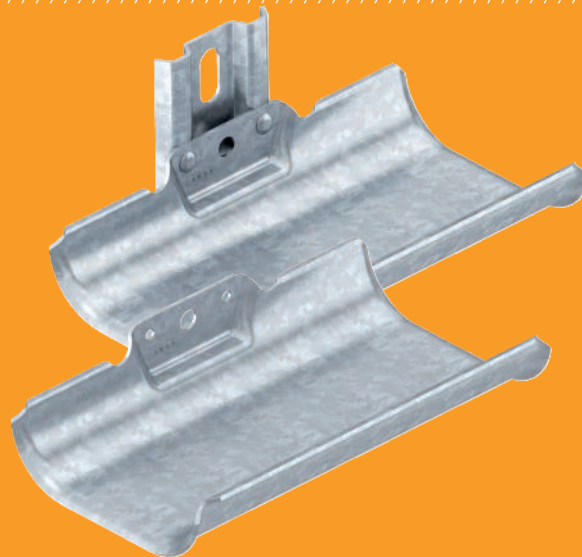
Steel wire tensioning rope, galvanised with fibre inlay (hemp core).
 Cable Ø 2–6 mm: Round flexible cable 6 x 7 to DIN 3055.
 Cable Ø 8–10 mm: Round flexible cable 6 x 19 to DIN 3060.
 Minimum break load 1,770 N/mm².





Cable support brackets

Cable support troughs are used for quick and easy routing of cables in areas where conventional cable support systems cannot be installed due to lack of space. The cable support troughs have a large load-bearing surface and rounded outer edges to protect the cables.

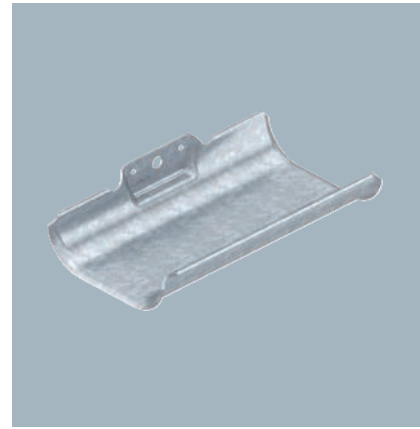


- Wall mounting
- Use e.g. in tunnels
- Various variants pre-assembled on mounting profile

St FT

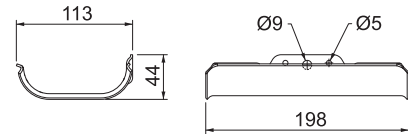
Cable carrier trough, single, for individual routing

Type	Side height mm	F in kN per trough	Pack Piece	Weight kg/100 pc.	Item no.
KTW 100 FT	44	0,35	1	48.000	6006890



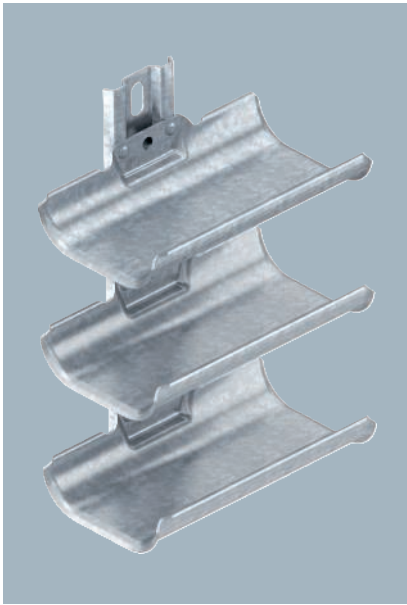
In accordance with DIN VDE 0298-300, a maximum support spacing of 0.8 m should not be exceeded.

Cable support brackets for quick and easy routing of cables in areas where common cable support systems cannot be installed due to lack of space. The cable support brackets possess a large load-bearing surface as well as rounded outer edges to protect the cables.



Cable support trough, single, with fastening rail

St FT



Type	Dim.		F in kN per trough	Pack Piece	Weight kg/100 pc.	Item no.
	L mm	Number of troughs				
KTW 100 1 FT	140	1	0.5	1	6.100	6006901

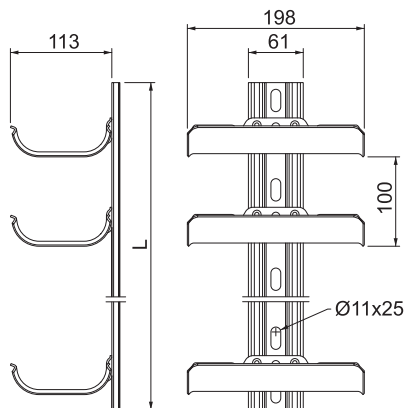
Load

Type	Levels	Total load	Quantity of anchors
KTW 100 1 FT	1	0.950 kN	1
KTW 100 2 FT	2	1.0 kN	1
KTW 100 3 FT	3	0.15 kN	1
KTW 100 4 FT	4	0.950 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 stated values are based on concrete of compressive strength C25/30. Fastening anchor type: BZ 10-100-120. Please comply with the installation conditions of the DIBt approval (anchors).

In accordance with DIN VDE 0298-300, a maximum support spacing 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.



St FT

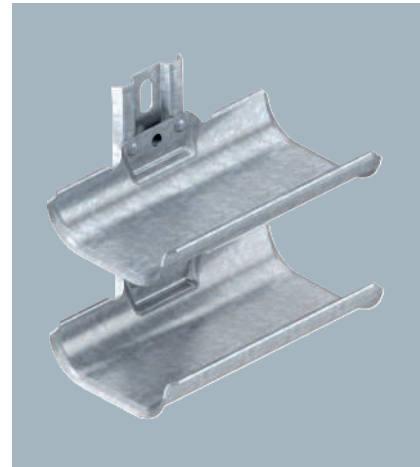
Cable carrier troughs, 2-fold, with mounting rail

Type	Dim.		F in kN per trough	Pack Piece	Weight kg/100 pc.	Item no.
	L mm	Number of troughs				
KTW 100 2 FT	200	2	0.5	1	111.000	6006902

Load

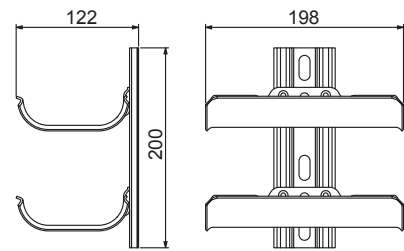
Type	Levels	Total load	Quantity of anchors
KTW 100 1 FT	1	0.950 kN	1
KTW 100 2 FT	2	1.0 kN	1
KTW 100 3 FT	3	0.15 kN	1
KTW 100 4 FT	4	0.950 kN	2
KTW 100 5 FT	5	2.5 kN	2
KTW 100 6 FT	6	3.0 kN	2
KTW 100 7 FT	7	3.5 kN	3
KTW 100 8 FT	8	4.0 kN	3
KTW 100 9 FT	9	4.5 kN	3
KTW 100 10 FT	10	5.0 kN	4

The stated values are based on concrete of compressive strength C25/30. Fastening anchor type: BZ 10-100-120. Please comply with the installation conditions of the DIBt approval (anchors).



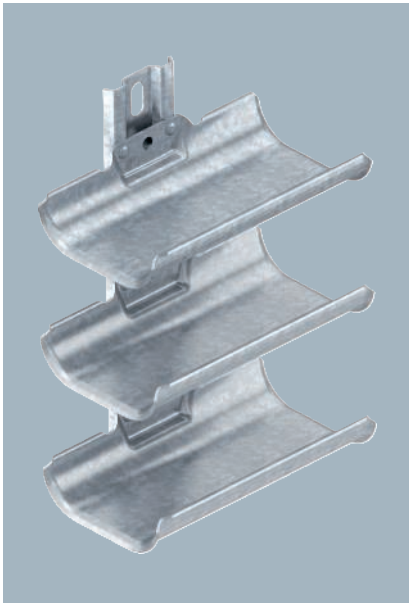
In accordance with DIN VDE 0298-300, a maximum support spacing of 0.8 m should not be exceeded.

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, 3-fold, with mounting rail

St FT



Type	Dim.		F in kN per trough	Pack Piece	Weight kg/100 pc.	Item no.
	L mm	Number of troughs				
KTW 100 3 FT	300	3	0.5	1	168.000	6006903

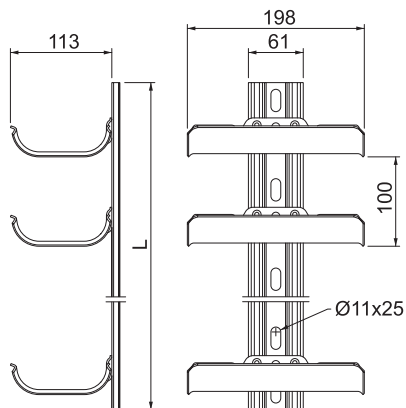
Load

Type	Levels	Total load	Quantity of anchors
KTW 100 1 FT	1	0.950 kN	1
KTW 100 2 FT	2	1.0 kN	1
KTW 100 3 FT	3	0.15 kN	1
KTW 100 4 FT	4	0.950 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 stated values are based on concrete of compressive strength C25/30. Fastening anchor type: BZ 10-100-120. Please comply with the installation conditions of the DIBt approval (anchors).

In accordance with DIN VDE 0298-300, a maximum support spacing 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.



St FT

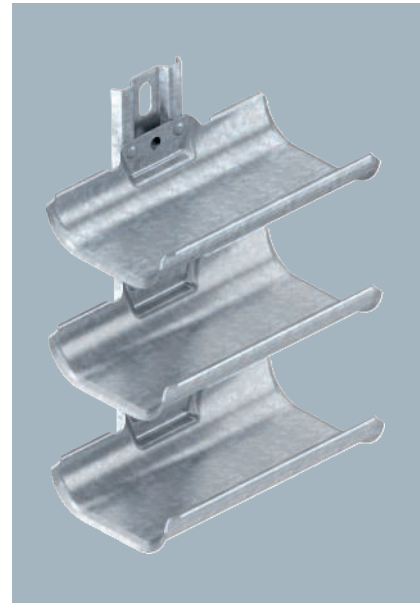
Cable carrier troughs, 4-fold, with mounting rail

Type	Dim.		F in kN per trough	Pack Piece	Weight kg/100 pc.	Item no.
	L mm	Number of troughs				
KTW 100 4 FT	400	4	0.5	1	225.000	6006904

Load

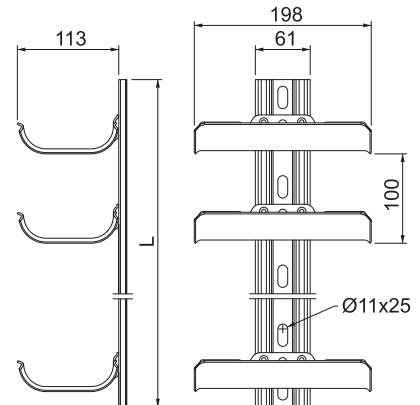
Type	Levels	Total load	Quantity of anchors
KTW 100 1 FT	1	0.950 kN	1
KTW 100 2 FT	2	1.0 kN	1
KTW 100 3 FT	3	0.15 kN	1
KTW 100 4 FT	4	0.950 kN	2
KTW 100 5 FT	5	2.5 kN	2
KTW 100 6 FT	6	3.0 kN	2
KTW 100 7 FT	7	3.5 kN	3
KTW 100 8 FT	8	4.0 kN	3
KTW 100 9 FT	9	4.5 kN	3
KTW 100 10 FT	10	5.0 kN	4

The stated values are based on concrete of compressive strength C25/30. Fastening anchor type: BZ 10-100-120. Please comply with the installation conditions of the DIBt approval (anchors).



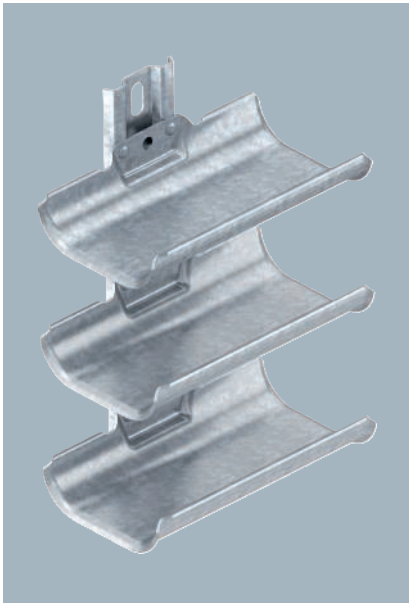
In accordance with DIN VDE 0298-300, a maximum support spacing of 0.8 m should not be exceeded.

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, 5-fold, with mounting rail

St FT



Type	Dim.		F in kN per trough	Pack Piece	Weight kg/100 pc.	Item no.
	L mm	Number of troughs				
KTW 100 5 FT	500	5	0.5	1	361.000	6006905

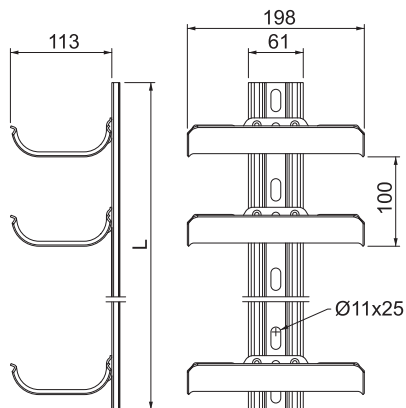
Load

Type	Levels	Total load	Quantity of anchors
KTW 100 1 FT	1	0.950 kN	1
KTW 100 2 FT	2	1.0 kN	1
KTW 100 3 FT	3	0.15 kN	1
KTW 100 4 FT	4	0.950 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 stated values are based on concrete of compressive strength C25/30. Fastening anchor type: BZ 10-100-120. Please comply with the installation conditions of the DIBt approval (anchors).

In accordance with DIN VDE 0298-300, a maximum support spacing 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.



St FT

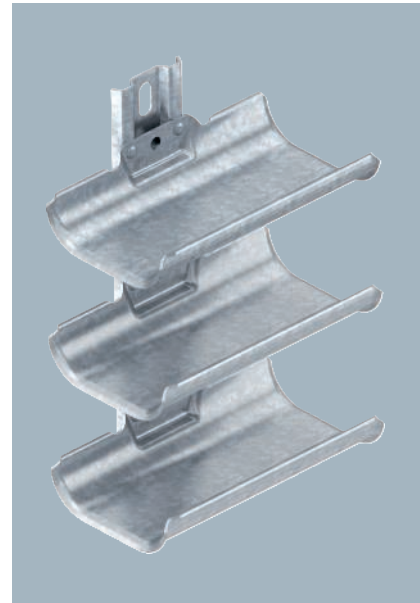
Cable carrier troughs, 6-fold, with mounting rail

Type	Dim.		F in kN per trough	Pack Piece	Weight kg/100 pc.	Item no.
	L mm	Number of troughs				
KTW 100 6 FT	600	6	0.5	1	339.000	6006906

Load

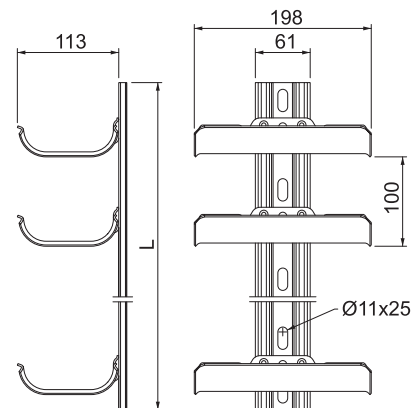
Type	Levels	Total load	Quantity of anchors
KTW 100 1 FT	1	0.950 kN	1
KTW 100 2 FT	2	1.0 kN	1
KTW 100 3 FT	3	0.15 kN	1
KTW 100 4 FT	4	0.950 kN	2
KTW 100 5 FT	5	2.5 kN	2
KTW 100 6 FT	6	3.0 kN	2
KTW 100 7 FT	7	3.5 kN	3
KTW 100 8 FT	8	4.0 kN	3
KTW 100 9 FT	9	4.5 kN	3
KTW 100 10 FT	10	5.0 kN	4

The stated values are based on concrete of compressive strength C25/30. Fastening anchor type: BZ 10-100-120. Please comply with the installation conditions of the DIBt approval (anchors).



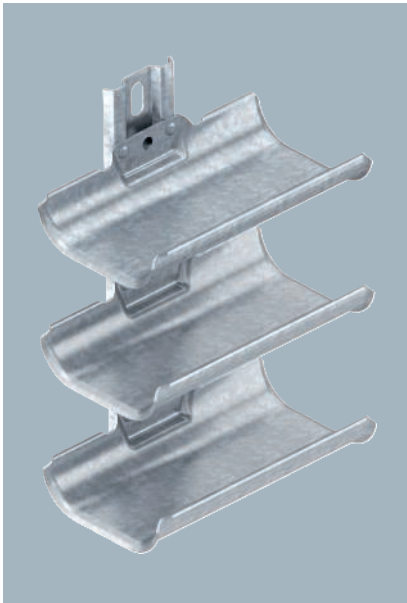
In accordance with DIN VDE 0298-300, a maximum support spacing of 0.8 m should not be exceeded.

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, 7-fold, with mounting rail

St FT



Type	Dim.		F in kN per trough	Pack Piece	Weight kg/100 pc.	Item no.
	L mm	Number of troughs				
KTW 100 7 FT	700	7	0.5	1	395.000	6006907

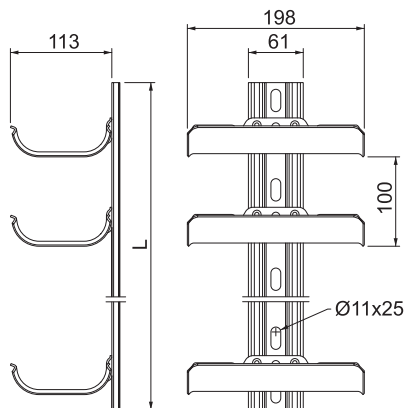
Load

Type	Levels	Total load	Quantity of anchors
KTW 100 1 FT	1	0.950 kN	1
KTW 100 2 FT	2	1.0 kN	1
KTW 100 3 FT	3	0.15 kN	1
KTW 100 4 FT	4	0.950 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 stated values are based on concrete of compressive strength C25/30. Fastening anchor type: BZ 10-100-120. Please comply with the installation conditions of the DIBt approval (anchors).

In accordance with DIN VDE 0298-300, a maximum support spacing 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.



St FT

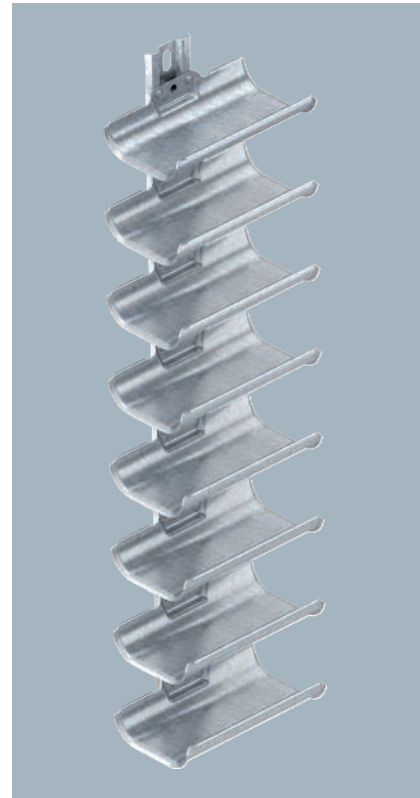
Cable carrier troughs, 8-fold, with mounting rail

Type	Dim.		F in kN per trough	Pack Piece	Weight kg/100 pc.	Item no.
	L mm	Number of troughs				
KTW 100 8 FT	800	8	0.5	1	452.000	6006908

Load

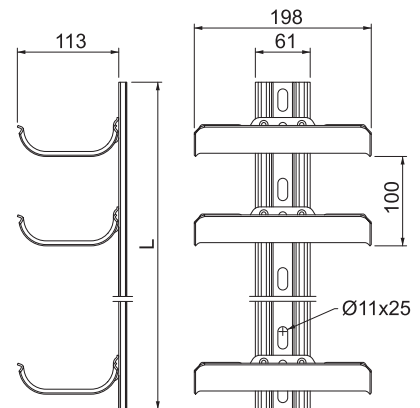
Type	Levels	Total load	Quantity of anchors
KTW 100 1 FT	1	0.950 kN	1
KTW 100 2 FT	2	1.0 kN	1
KTW 100 3 FT	3	0.15 kN	1
KTW 100 4 FT	4	0.950 kN	2
KTW 100 5 FT	5	2.5 kN	2
KTW 100 6 FT	6	3.0 kN	2
KTW 100 7 FT	7	3.5 kN	3
KTW 100 8 FT	8	4.0 kN	3
KTW 100 9 FT	9	4.5 kN	3
KTW 100 10 FT	10	5.0 kN	4

The stated values are based on concrete of compressive strength C25/30. Fastening anchor type: BZ 10-100-120. Please comply with the installation conditions of the DIBt approval (anchors).



In accordance with DIN VDE 0298-300, a maximum support spacing of 0.8 m should not be exceeded.

Cable support brackets for quick and easy routing of cables in areas where common cable support systems cannot be installed due to lack of space. The cable support brackets possess a large load-bearing surface as well as rounded outer edges to protect the cables.



Cable support trough, 9x, with fastening rail

St FT



Type	Dim.		F in kN per trough	Pack Piece	Weight kg/100 pc.	Item no.
	L mm	Number of troughs				
KTW 100 9 FT	900	9	0.5	1	465.000	6006909

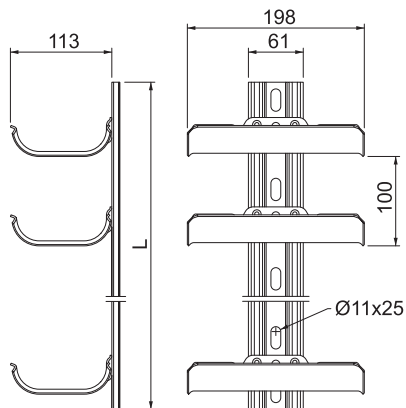
Load

Type	Levels	Total load	Quantity of anchors
KTW 100 1 FT	1	0.950 kN	1
KTW 100 2 FT	2	1.0 kN	1
KTW 100 3 FT	3	0.15 kN	1
KTW 100 4 FT	4	0.950 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 stated values are based on concrete of compressive strength C25/30. Fastening anchor type: BZ 10-100-120. Please comply with the installation conditions of the DIBt approval (anchors).

In accordance with DIN VDE 0298-300, a maximum support spacing 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.



St FT

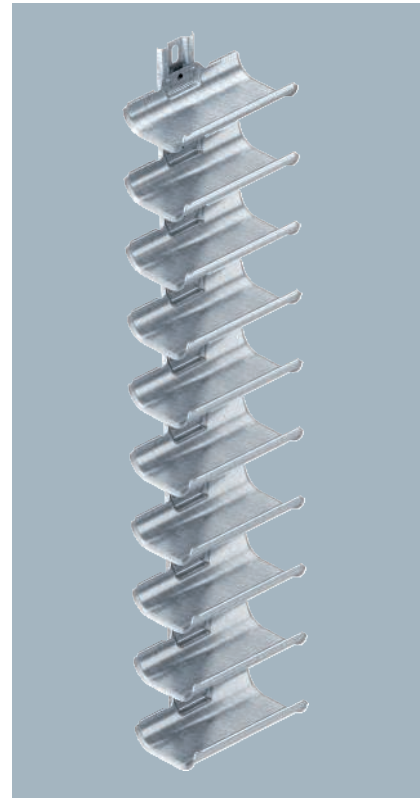
Cable support trough, 10x, with fastening rail

Type	Dim. L mm	Number of troughs	F in kN per trough kN	Pack Piece	Weight kg/100 pc.	Item no.
KTW 100 10 FT	1000	10	0.5	1	565.000	6006910

Load

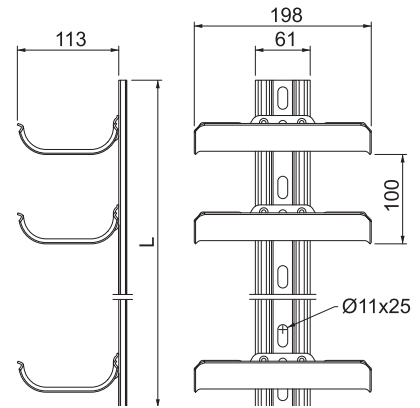
Type	Levels	Total load	Quantity of anchors
KTW 100 1 FT	1	0.950 kN	1
KTW 100 2 FT	2	1.0 kN	1
KTW 100 3 FT	3	0.15 kN	1
KTW 100 4 FT	4	0.950 kN	2
KTW 100 5 FT	5	2.5 kN	2
KTW 100 6 FT	6	3.0 kN	2
KTW 100 7 FT	7	3.5 kN	3
KTW 100 8 FT	8	4.0 kN	3
KTW 100 9 FT	9	4.5 kN	3
KTW 100 10 FT	10	5.0 kN	4

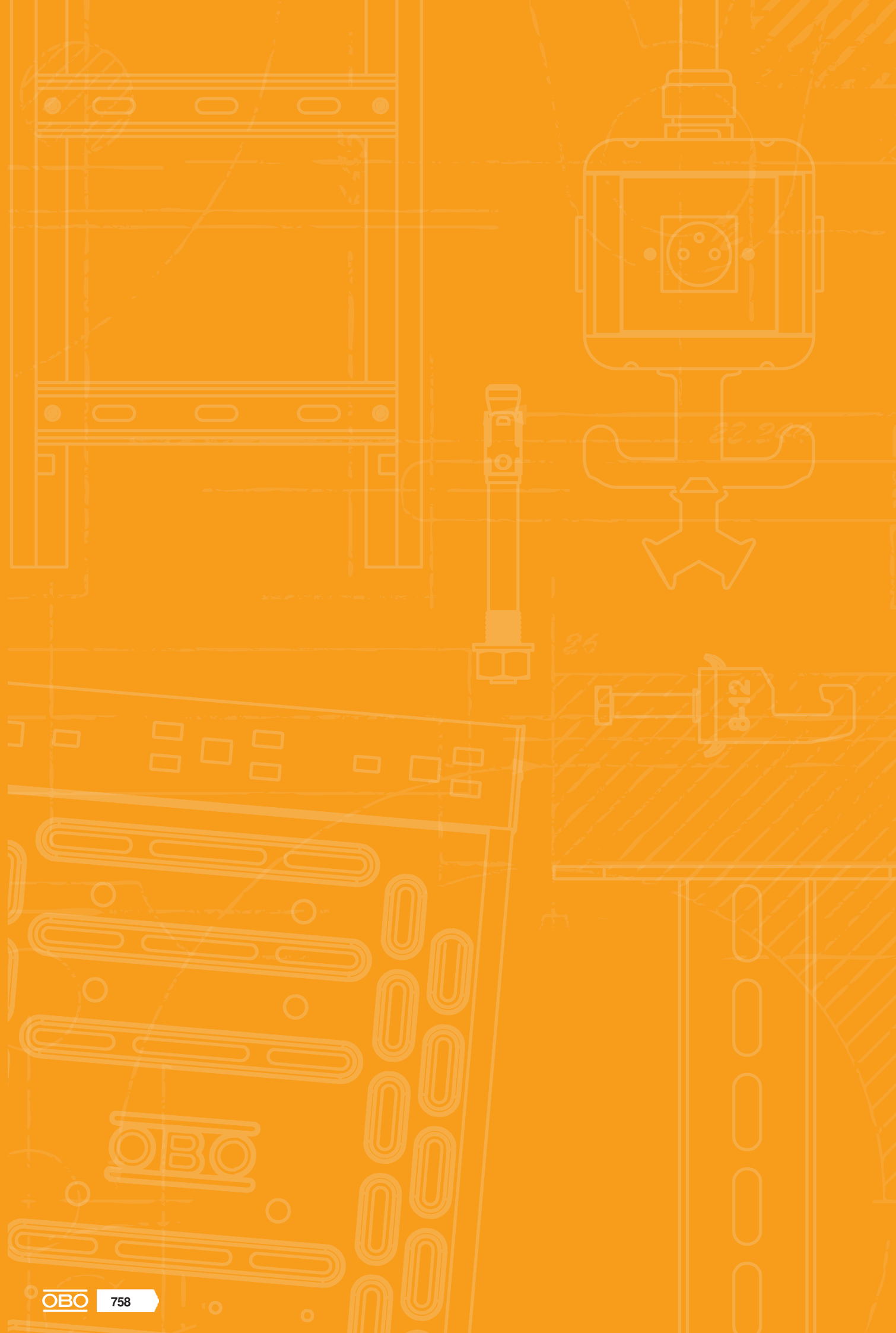
The stated values are based on concrete of compressive strength C25/30. Fastening anchor type: BZ 10-100-120. Please comply with the installation conditions of the DIBt approval (anchors).



In accordance with DIN VDE 0298-300, a maximum support spacing 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.





Motor connection column



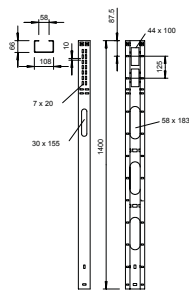
Motor connection column

760



Motor connection column

St FT



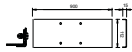
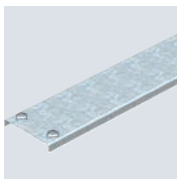
Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
MAS 140 10 FT	1400	1	505.000	6356311

Vertical motor connection column to supply electrical devices.

Accessories, motor connection columns

Cover for motor connection column

St FT

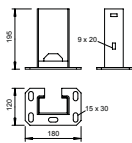


Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
MASD 90 FT	900	1	160.000	6356915

Cover with turn buckle for motor connection column.

Column foot

St FT

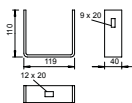
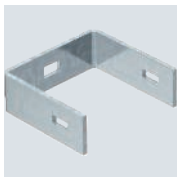


Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
SF 140 11 FT		1	200.000	6356397

Column foot for fastening of the motor connection column.

Mounting bracket

St FT

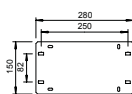
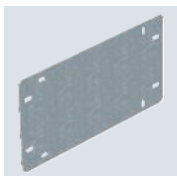


Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
BF 140 10 FT		10	50.000	6356362

Mounting bracket for side fastening of motor connection columns to bases or on the wall.

Device plate GP 15

St FT



Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
GP 15 28 FT		1	101.000	6357008

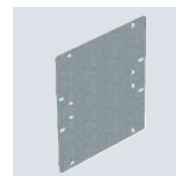
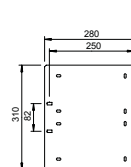
Mounting plate for fastening to motor connection column, type MAS 140/10.

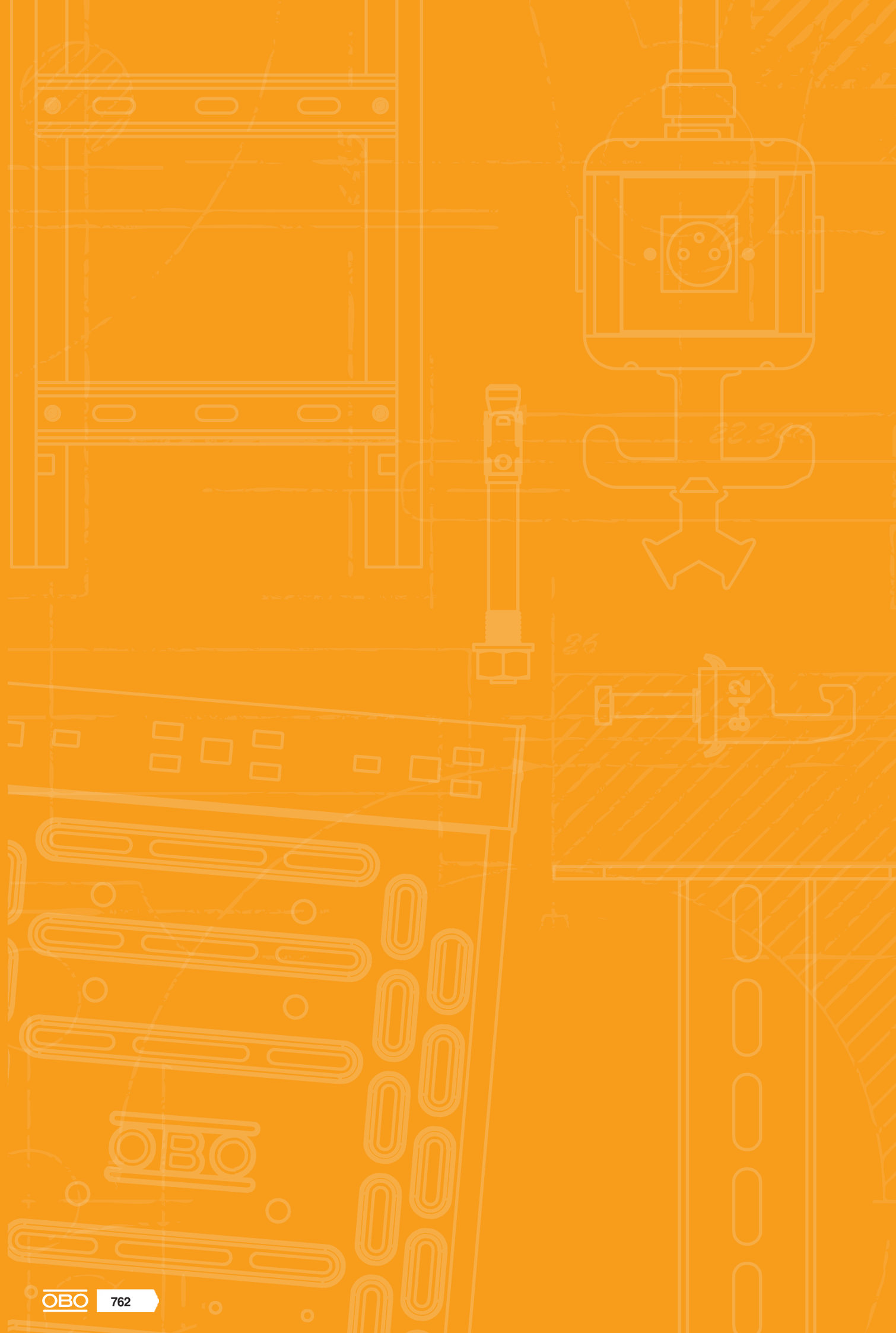
St FT

Device plate GP 31





Type	Pack Piece	Weight kg/100 pc.	Item no.
GP 31 28 FT	1	210.000	6357016

Mounting plate for fastening to motor connection column, type MAS 140/10.





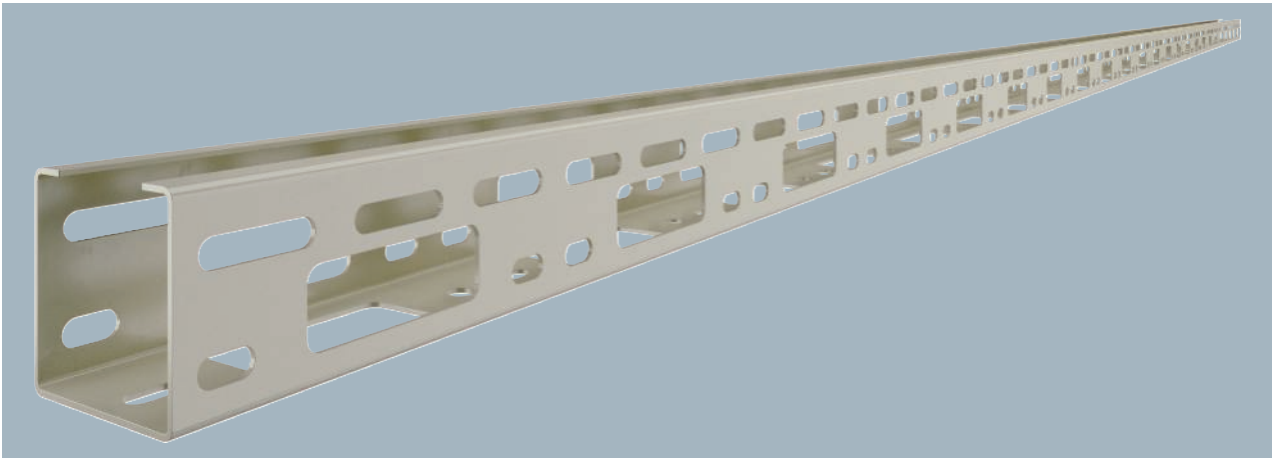
Industrial ducts

	AZ small ducts	764
	Connector	766
	Lid for fittings	768
	Accessories	770



AZ small duct 50, gravel grey

St

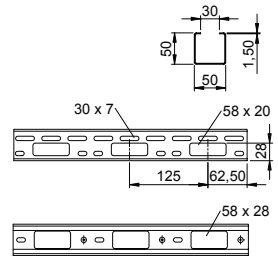


Type	Width mm	Metal thick- ness mm	Colour	Pack m	Weight kg/100 m	Item no.
AZK 050 FTK KGR	50	1.50	Pebble grey	6	146.766	6076924

AZ channel with a side height of 50 mm.

Type	Length mm	Width mm	Side height mm
AZK 050 FTK KGR	3000	50	50

Dimensions

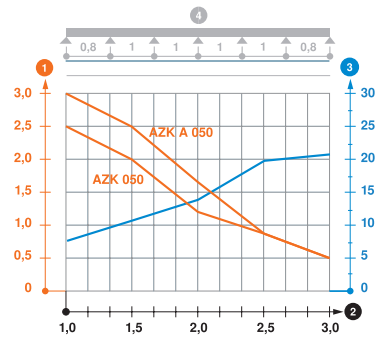


	1.0 m	1.5 m	2.0 m	2.5 m	3.0 m
AZK 050 FTK KGR	—	2	1.2	0.85	0.5

Load diagram, AZ channel

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

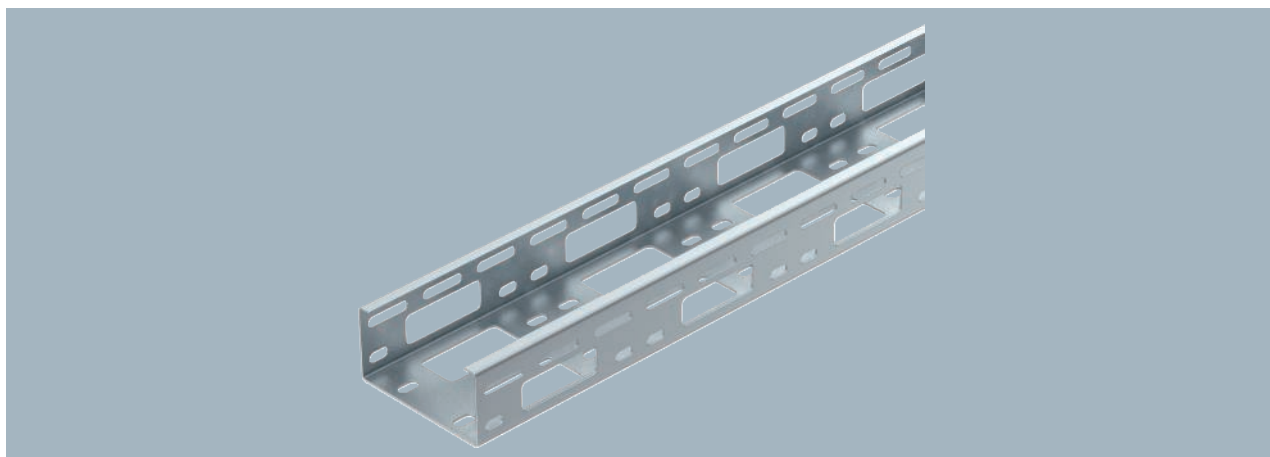
Load



Industrial ducts

St

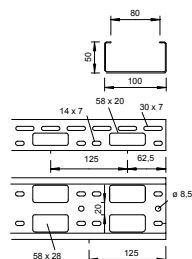
AZ small duct 100, gravel grey



AZ channel with a side height of 50 mm.

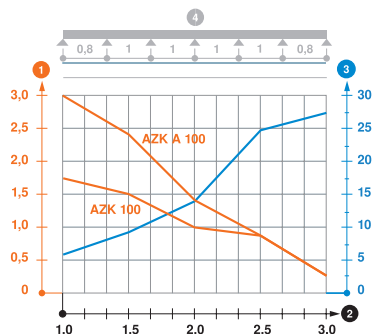
Type	Width mm	Metal thick- ness mm	Colour	Pack m	Weight kg/100 m	Item no.
AZK 100 FTK KGR	100	1.50	Pebble grey	6	191.370	6076926

Dimensions



Type	Length mm	Width mm	Side height mm
AZK 100 FTK KGR	3000	100	50

Load

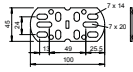


	1.0 m	1.5 m	2.0 m	2.5 m	3.0 m
AZK 100 FTK KGR	—	1.5	1	0.8	0.25

Load diagram, AZ channel

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

Straight and angle connector



Type

VF AZK FTK KGR

Pack Piece	Weight kg/100 pc.	Item no.
25	8.056	6066640

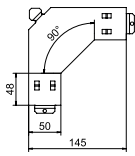
Straight and angle connector for connection of AZ channels.

An adjustable connector can be created using two straight and angle connectors. Scope of delivery including bolts with combination nuts.





Cover for 90° bend



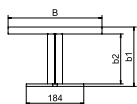
Type	Side height	Width	Pack Piece	Weight kg/100 pc.	Item no.
	mm	mm			
LTS DFB DD	50	50	1	10.800	6074952

Cover for 90° bend.



Floor support 90 for BKRS

St FT

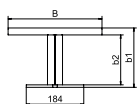


Type	Dim. B mm	Dim. b1 mm	Dim. b2 mm	Pack Piece	Weight kg/100 pc.	Item no.
BSS 90 200 FT	200	90	59.5	1	179.300	6044473
BSS 90 300 FT	300	90	59.5	1	195.300	6044475
BSS 90 400 FT	400	90	59.5	1	211.300	6044477
BSS 90 500 FT	500	90	59.5	1	227.300	6044479
BSS 90 600 FT	600	90	59.5	1	244.300	6044481

Floor support in T form, with unperforated profile rail. For holding up walkable cable trays, type BKRS. Height 90 mm.

Floor support 190 for BKRS

St FT

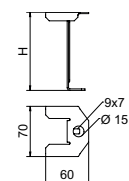


Type	Dim. B mm	Dim. b1 mm	Dim. b2 mm	Pack Piece	Weight kg/100 pc.	Item no.
BSS 190 100 FT	100	190	159.5	1	178.900	6044501
BSS 190 200 FT	200	190	159.5	1	194.900	6044503
BSS 190 300 FT	300	190	159.5	1	210.900	6044505
BSS 190 400 FT	400	190	159.5	1	226.900	6044507
BSS 190 500 FT	500	190	159.5	1	242.900	6044509
BSS 190 600 FT	600	190	159.5	1	258.900	6044511

Floor support in T form, with unperforated profile rail. For holding up walkable cable trays, type BKRS. Height 190 mm.

Cover support 100

St FS

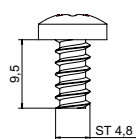


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
DST100 BKRS FS	100	10	10.600	6049239

Cover support for the walkable BKRS cable tray system, for additional support of covers at a side height of 100 mm.

Lens head metal screw

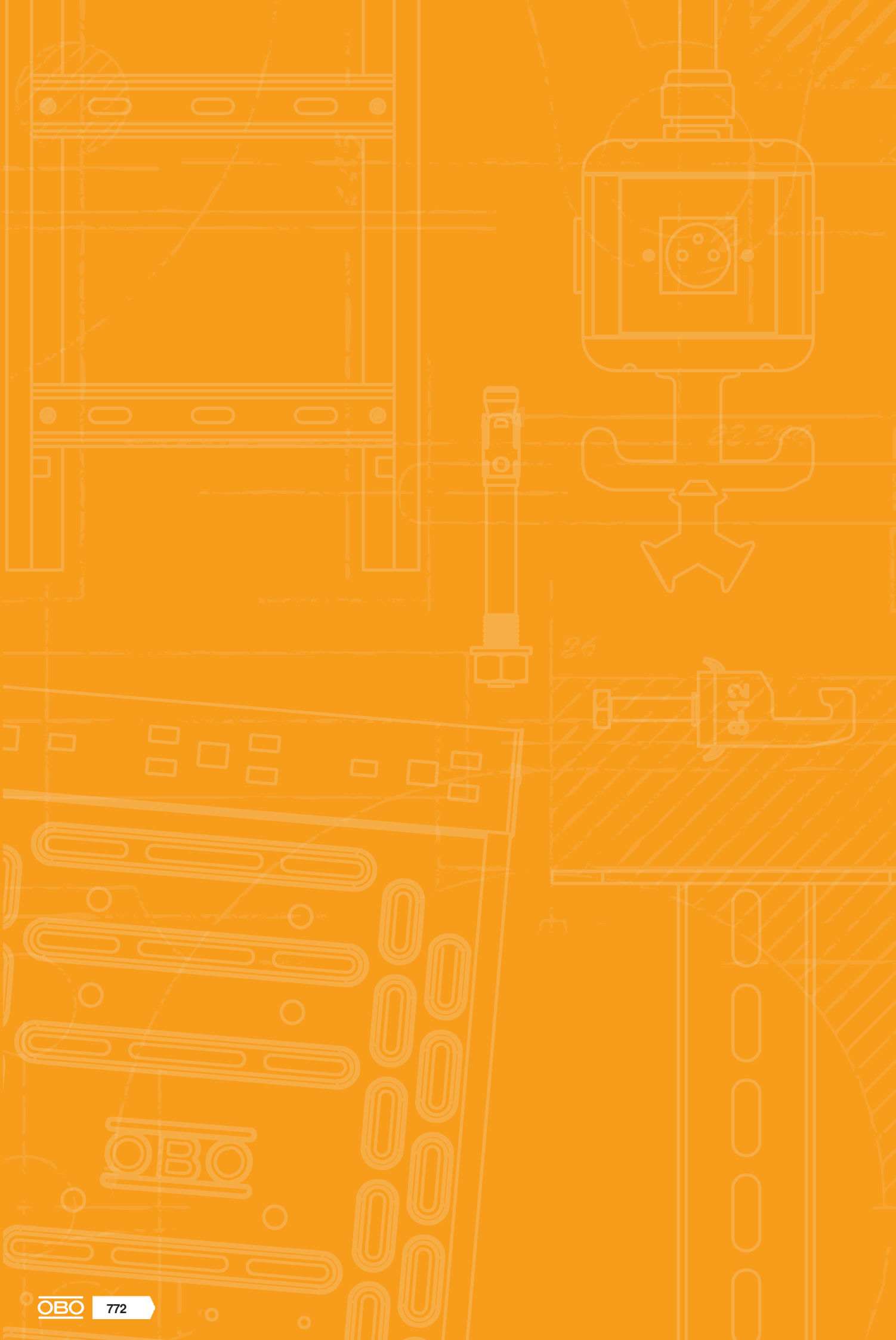
St G









Type	Dimension mm	Pack Piece	Weight kg/100 pc.	Item no.
SPHS 4,8x9,5 G	4,8x9,5	1	0,200	6049248

Metal screw with lens head according to shape F and Torx drive, according to DIN EN ISO 7049, to fasten protective panels to the Z supports for the walkable cable tray system.












































Directories

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	For the latest general conditions of sale and delivery please see www.obo.global/general-purchasing-conditions/	


























Test marks

	American Bureau of Shipping, USA		Underwriters Laboratories Inc., USA + CSA, Canada
	AENOR, Producto Certificado, Spain		Österreichischer Verband für Elektrotechnik, Austria
	STOWARZYSZENIE ELEKTRYKÓW POLSKICH, Poland		ISTITUTO ITALIANO DEL MARCHO DI QUALITÀ, Italy
	Lightning current-tested		RINA 1861, Ship Classification, Certification and Services
	Lightning current-tested, Class H (100 kA)		Underwriters Laboratories Inc., USA
	CEBEC, Belgium		SEMKO An Inchcape Testing Services Company, Sweden
	Canadian Standards Association, Canada		Eidgenössisches Starkstrominspektorat, Switzerland
	DEMKO, Danmarks Elektriske Materielkontrol, Denmark		South African Bureau of Standards
	Deutsches Institut für Bautechnik Berlin, Germany		Shock-tested, Bundesamt für Zivilschutz, Germany
	Det Norske Veritas		Sähkötarkastuskeskus Elinspektionscentralen Electrical Inspectorate, Finland
	ENEC Austria		Underwriters Laboratories Inc., USA
	ATEX certificate for explosive areas		Underwriters Laboratories Inc., USA
	ELEKTROTECHNICKÝ ZKUŠEBNÍ ÚSTAV, Czech Republic		Verband der Elektrotechnik, Elektronik, Informationstechnik e.V., Germany
	FIMKO, Finland		German Association of Electricians, tested safety
	Forschungs- und Materialprüfungsanstalt, Germany		5-year warranty
	Russia, GOST The State Committee for Standards		
	Test marks for technical resources, VDE Prüf- und Zertifizierungsinstitut Offenbach, Germany		
	Halogen-free; without chlorine, fluorine and bromine		
	INMETRO, Brazil		
	KEMA-KEUR, Netherlands		
	Indication of metric products		
	MAGYAR ELEKTROTECHNIKAI ELLENŐRZŐ INTÉZET Budapest, Hungary		
	NEMKO, Norway		
	AFNOR Quality symbol of the French standardisation institute		





Pictogram explanation






Surfaces

 FS	Strip galvanised
 FSK	Strip galvanised/plastic-coated
 DD	Strip galvanised zinc/aluminium, double dip
 BK	Bright
 2B	Bright, reworked
 EL	Anodised
 F	Hot-dip galvanised
 G	Electrogalvanised
 GK	Electrogalvanised/plastic-coated
 GCL	Electrogalvanised, yellow-chromatised
 GGP	Electrogalvanised, yellow passivated
 GTP	Electrogalvanised, transparently passivated
 GR	Primed
 L	Painted
 SG	Welding primed
 FT	Hot-dip galvanised
 FT SO	Hot-dip galvanised 85 µm
 Cu	Copper-plated
 N	Nickel-plated
 ZD	Galvanised, Deltatone 500
 ZDM	Galvanised, MAGNI 565
 GA	Zinc-aluminium coated, Galfan
 ZL	Zinc scale






Conformity symbol

	Communautés Européennes, EC declaration of conformity according to EC directives
	RoHS-conformant



















Quality marks

	Halogen-free; without chlorine, fluorine and bromine
	Flame resistant 650 °C
	Flame resistant 750 °C
	Flame resistant 960 °C
	UV-resistant




Specific product symbols

	Diameter 60 mm
	Diameter 68 mm
	Protection device to DIN EN 61643-11 or IEC 61643-11
	Transition from LPZ 2 to LPZ 3
	Acoustic signalling



Applications

	Remote signalling
	Acoustic signalling
	Integrated Service Digital Network, ISDN applications
	Digital Subscriber Line, DSL applications
	Analogue telecommunication
	Category 5 TwisterPair
	Channel Performance to American EIA/TIA standard
	Measuring, controlling and regulating systems
	TV applications
	SAT-TV applications
	MultiBase base
	LifeControl
	Intrinsically safe protection device for potentially explosive areas
	Channel Performance to ISO/IEC 11801
	Power over Ethernet
	230/400 V system
	Protection rating IP 54
	Protection rating IP 65







Lightning protection classes

	Protection device to DIN EN 61643-11 or IEC 61643-11
	Combination protection device made of type 1 and type 2
	Protection device to DIN EN 61643-11 or IEC 61643-11






Lightning protection classes

	Protection device to DIN EN 61643-11 or IEC 61643-11
	Protection device to DIN EN 61643-11 or IEC 61643-11



Lightning protection zone

	Transition from LPZ 0 to LPZ 1
	Transition from LPZ 0 to LPZ 2
	Transition from LPZ 0 to LPZ 3
	Transition from LPZ 1 to LPZ 2
	Transition from LPZ 1 to LPZ 3
	Transition from LPZ 2 to LPZ 3



BSS maintenance of electrical function installation

	Fire-tested systems
	Escape route ceiling mounting with pressure clip
	OBO Grip, wall routing type
	OBO Grip, ceiling routing type
	Pressure clip for maintenance of electrical function, ceiling mounting




BSS anchor

	Fire protection anchor
	Fire protection bolt tie

BSS test marks/material class

	Maintenance of electrical function class E30
	Maintenance of electrical function class E90














Clamp clip base shapes

	Clamp clip for C profile rail, slot width 11–12 mm
	Clamp clip for C profile rail, slot width 16–17 mm
	Clamp clip for C profile rail, slot width 18–22 mm


Diameter

	Diameter 60 mm
	Diameter 68 mm
	Diameter 70 mm
	Diameter 74 mm





Entries

	4 cable entries
	6 cable entries
	7 cable entries
	8 cable entries
	9 cable entries
	10 cable entries
	12 cable entries
	10 cable entries ECO
	12 cable entries ECO
	14 cable entries ECO
	16 cable entries
	18 cable entries ECO
	24 cable entries






Gland thread

	Thread metric
	Thread Pg





Entry size

	M20 entry
	M25 entry
	M32 entry
	M40 entry

KTS side heights










	Cable tray, side height 35 mm
	Cable tray, side height 60 mm
	Cable tray, side height 85 mm
	Mesh cable tray, side height 35 mm
	Mesh cable tray, side height 55 mm

Materials




	Flat steel
	Angular steel
	U steel
	Round material

Pictogram explanation

Nominal cross-section

	Nominal cross-section 1.5 mm ²
	Nominal cross-section 1.5–2.5 mm ²
	Nominal cross-section 2.5 mm ²
	Nominal cross-section 2.5–4 mm ²
	Nominal cross-section 4 mm ²
	Nominal cross-section 4–6 mm ²
	Nominal cross-section 6 mm ²
	Nominal cross-section 10 mm ²
	Nominal cross-section 16 mm ²













Nominal voltage

	Nominal voltage 400 V
	Nominal voltage 500 V
	Nominal voltage 660 V





Polarity

	3-pole
	5-pole
	7-pole
	8-pole
	10-pole
	12-pole



Slot widths

	Slot width 7.5 mm
	Slot width 11 mm
	Slot width 11–12 mm
	Slot width 12 mm
	Slot width 15 mm
	Slot width 16 mm
	Slot width 16.5 mm
	Slot width 16–17 mm
	Slot width 17 mm
	Slot width 18 mm
	Slot width 22 mm
	Slot width 35 mm











Screw heads

	Phillips screw
	Torx screw
	Phillips screw
	Pozidriv



Firing devices

	Bolt-firing tool
	Nail device





Protection rating

	Protection rating IP 20
	Protection rating IP 30
	Protection rating IP 31
	Protection rating IP 44
	Protection rating IP 54
	Protection rating IP 55
	Protection rating IP 65
	Protection rating IP 66
	Protection rating IP 67
	Protection rating IP 68

Metals

	Aluminium
	Aluminium/steel
	Stainless steel, rustproof
	Stainless steel, rustproof
	Stainless steel, rustproof
	Copper
	Brass
	Steel
	Malleable iron
	Die-cast zinc

Plastics

	Acrylonitrile butadiene styrene
	Duroplast, Aminoplast, type 131.5
	Duroplast, melamine resin, type 150
	Ethylene vinyl acetate

Plastics

FA	Fibre-proof material DIN 28091
GFK	Fibreglass-reinforced plastic
NBR SBR	Rubber mixture
NBR	Nitrile rubber
PETR	Petrolatum
PA	Polyamide
PA/ GF	Polyamide, fibreglass reinforced
PBPT	Polybutylene terephthalate
PC	Polycarbonate
PE	Polyethylene
PP	Polypropylene
PP/GF	Polypropylene, fibreglass reinforced
PS	Polystyrene
PVC	Polyvinylchloride
ZELL PE	Cellular polyethylene



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2069 15 1.5 GTPL	5044895	1115456	742	AHB 400 FT	6881598	6363946	651
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2069 15 2.2 GTPL	5045199	1115596	743	AHB 50 D4 FT	6935895	6066505	519
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2084 K M6	5307150	/100 pc. 3463060	523	AML3518P0200SOFT	5490159	1119826	690
2990 M6 G	5306979	3462862	523	AML3518P0300FT	5060611	1119693	702
2990 M8 G	5307037	3462889	523	AML3518P0400FT	5060376	1119690	702
325 100 FT	5422716	5327105	670	AML3518P0500FT	5060253	1119687	702
325 130 FT	5422778	5327121	670	AML3518P0600FT	5059417	1119684	702
325 70 FT	5422594	5327075	670	AML3518P0700FT	5059356	1119681	702
325 80 FT	5422655	5327083	670	AML3518P0800FT	5059295	1119678	702
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328 2	5126850	1408046	670	AML3518P1000FS	6470730	1119646	691
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947 3 G	5414551	5302021	523	AML3518P6000A2	5047711	1119729	691
948 TG6	5513315	3453820	520	AML3518UP2000A2	6470723	1112007	692
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BEB 500 A2	6232277	7084102	260	CGR 50 200 FT	6014057	6017444	354
BEB 500 A4	5866374	7084149	260	CGR 50 300 A2	5891352	6016253	355
BEB 500 DD	6024490	7083638	259	CGR 50 300 FT	6295692	6017452	354
BEB 500 FS	6231379	7083505	259	CGR 50 400 A2	5891369	6016255	355
BEB 550 DD	6100996	7083640	259	CGR 50 400 FT	6014118	6017460	354
BEB 550 FS	6231430	7083556	259	CGR 50 50 A2	6012671	6016200	355
BEB 600 A2	6232338	7084129	260	CGR 50 50 FT	6013937	6017428	354
BEB 600 A4	5866381	7084151	260			/pc.	
BEB 600 DD	6034635	7083642	259	CK 40 100 FT	6007998	6008305	507
BEB 600 FS	6231492	7083602	259	CK 40 110 FT	6008056	6008313	507
BF 140 10 FT	6295876	6356362	760	CK 40 120 FT	6008117	6008321	507
BFK 132 58 A2	6049448	6003871	680	CK 40 20 FT	6629718	6008224	507
BFK 132 58 FT	6079889	6003880	680	CK 40 30 FT	6356058	6008232	507
BFK 153 33 A2	6049561	6003873	681	CK 40 40 FT	6007639	6008240	507
BFK 153 33 FT	6079896	6003884	680	CK 40 50 FT	6007691	6008259	507
BFK 166 58 20 A2	6049806	6003877	680	CK 40 60 FT	6007752	6008267	507
BFK 166 58 20 FT	6079902	6003888	679	CK 40 70 FT	6007813	6008275	507
BFK 187 33 A2	6049929	6003879	682	CK 40 80 FT	6007875	6008283	507
BFK 187 33 FT	6079919	6003892	681	CK 40 90 FT	6007936	6008291	507
BFKD 153 44 A2	6625352	6003887	681	CKD 40 60 FT	5612766	6008269	507
BFKD 153 44 FT	6609215	6003885	681	CKD 40 70 FT	5612773	6008277	507
		price/m		CKD 40 80 FT	5612780	6008285	507
BKK 104 A2	6068418	6070779	542	CKD 40 90 FT	5612797	6008293	507
BKK 104 FT	6068234	6070248	541			price/100	
BKK 150 FT	6068296	6070345	542	CL2008BP1000FS	5039556	1105906	684
BKK 200 A2	6068531	6070795	542	CL2008BP2000BK	5039617	1106023	684
BKK 200 FT	6068357	6070442	542	CL2008BP2000FS	5039730	1106120	684
BKRS 1010 FS	6341863	6062000	198	CL2008BP2000FS	5039730	1106120	684
BKRS 1020 FS	6341870	6062002	198	CL2008P2000A2	5627104	1106628	685
BKRS 1030 FS	6341887	6062004	198	CL2008P2000FS	5040095	1106627	684
BKRS 1040 FS	6341894	6062006	198	CL2008UP2000A2	5627098	1105125	686
BKRS 1050 FS	6341900	6062008	198	CL2008UP2000FS	5039433	1105124	685
BKRS 1060 FS	6341917	6062010	198			/100 pc.	
BKRS 1110 FS	6147007	6061981	229	CL20HB M5x25 ZL	6488704	1148008	721
BKRS 1120 FS	6147038	6061983	229	CL20HB M6x25 ZL	6488735	1148012	721
BKRS 1130 FS	6147045	6061985	229	CL20HB M8x25 ZL	6488742	1148016	721
BKRS 1140 FS	6147052	6061987	229	CL20SN M4 ZL	6488636	1147008	719
BKRS 1150 FS	6147069	6061989	229	CL20SN M5 ZL	6488643	1147012	719
BKRS 1160 FS	6147090	6061991	229	CL20SN M6 ZL	6488650	1147016	719
		/100 pc.				price/100	
BS BKS KP	6147878	6049250	265	CL2510P2000FS	5040811	1108123	686
BS BKS KP	6147878	6049250	312	CL2510UP2000BK	5040279	1107038	688
BSS 190 100 FT	6882052	6044501	770	CL2510UP2000FS	5040453	1107127	688
BSS 190 200 FT	6882069	6044503	770	CL2512UP2000A2	5046639	1117068	687
BSS 190 300 FT	6882090	6044505	770	CL2512UP2000FS	5046578	1117033	687
BSS 190 400 FT	6882106	6044507	770	CL2512UP2000FS	5046578	1117033	687
BSS 190 500 FT	6882113	6044509	770	CL2512UP2000FT	5046516	1117025	687
BSS 190 600 FT	6882120	6044511	770			/100 pc.	
BSS 90 200 FT	6881987	6044473	770	CL2712P2000FS	6470693	1109525	688
BSS 90 300 FT	6881994	6044475	770	CL2712P2000FT	5041894	1109529	688
BSS 90 400 FT	6882007	6044477	770	CL2712UP2000BK	5041412	1109014	689
BSS 90 500 FT	6882038	6044479	770	CL2712UP2000FT	5041474	1109022	689
BSS 90 600 FT	6882045	6044481	770			/100 pc.	
BW 10 A2	7352240	6019484	621	CL27HB M5x25 ZL	6488759	1148020	722
BW 10 A4	7352288	6019486	621	CL27HB M6x25 ZL	6488766	1148024	722
BW 10 FT	7352202	6019480	621	CL27HB M8x25 ZL	6488773	1148028	722
BW 12 A4	7352301	6019506	622	CL27SN M4 ZL	6488667	1147020	719
BW 12 FT	7352226	6019500	621	CL27SN M5 ZL	6488674	1147024	719
				CL27SN M6 ZL	6488681	1147028	719
BW 64 32 A2	6701636	6019686	606	CL27SN M8 ZL	6488698	1147032	719
BW 64 32 FS	6701612	6019680	605				
BW 64 32 FT	6701629	6019682	606	CM3015P0200FT	5036975	1109782	689
		/pc.		CM3015P0300FT	5037033	1109790	689
BW 80 55 FT	6014538	6019528	508	CM3015P0400FT	5037095	1109804	689
				CM3015P0500FT	5037156	1109812	689
				CM3015P0600FT	5037217	1109820	689



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CM3015P0800FT	5037330	1109847	689	DB FT	6195671	6356109	521
CM3015P1000FT	5037934	price/100 1109863	689	DB FT	6195671	6356109	657
CM3015P2000FS	5053897	1110002	689	DBKR 100 DD	7304676	6049140	259
CM3015P2000FT	5041771	1109871	689	DBKR 100 FS	6610006	price/m 6049119	262
CM3015UP2000FS	5042075	1110004	690	DBKR 200 DD	7304720	6049141	259
CM3518 KD FT	6192373	/pc. 6350100	741	DBKR 200 FS	6610013	price/m 6049121	262
CM3518 KP FT	6192311	6350054	741	DBKR 300 DD	7304744	6049142	259
CM3518 SK	5668114	/100 pc. 1124502	730	DBKR 300 FS	6610020	price/m 6049123	262
CMCP3000FT	6192557	price/m 6350208	740	DBKR 400 DD	7304799	6049143	259
CML3518P0150FS	5038238	/100 pc. 1104241	694	DBKR 400 FS	6610051	price/m 6049125	262
CML3518P0150FT	6470815	1104550	694	DBKR 500 DD	7304829	6049144	259
CML3518P0200FS	5038290	1104268	694	DBKR 500 FS	6610068	price/m 6049127	262
CML3518P0200FT	6470822	1104552	694	DBKR 600 DD	7304843	6049145	259
CML3518P0300FS	5038351	1104284	694	DBKR 600 FS	6610075	price/m 6049129	262
CML3518P0300FT	6470839	1104554	694	DBL 50 100 A4	6937455	/pc. 6015630	658
CML3518P0400FS	5836353	1104292	694	DBL 50 100 FS	6746118	6015506	658
CML3518P0400FT	6470846	1104556	694	DBL 50 100 FT	6785414	6015565	658
CML3518P0500FS	5038412	1104306	694	DBL 50 150 FS	6746170	6015514	658
CML3518P0500FT	6470853	1104558	694	DBL 50 150 FT	6785476	6015573	658
CML3518P0600FS	5036678	1104310	694	DBL 50 200 A4	6937516	6015632	658
CML3518P0600FT	6470860	1104560	694	DBL 50 200 FS	6746231	6015522	658
CML3518P0700FS	5036739	1104315	694	DBL 50 200 FT	6785537	6015581	658
CML3518P0700FT	6470877	1104562	694	DBL 50 300 A4	6937578	6015633	658
CML3518P0800FS	5036791	1104320	694	DBL 50 300 FS	6746293	6015530	658
CML3518P0800FT	6470884	1104564	694	DBL 50 300 FT	6785599	6015603	658
CML3518P0900FS	5036852	1104325	694	DBL 50 400 A4	6937639	6015634	658
CML3518P0900FT	6470914	1104566	694	DBL 50 400 FS	6746354	6015549	658
CML3518P1000A2	5627074	price/100 1104498	696	DBL 50 400 FT	6785650	6015611	658
CML3518P1000FS	5694458	1104497	695	DBL 50 500 FS	5239154	6015552	658
CML3518P1000FT	6470921	1104568	695	DBL 50 500 FT	5239208	6015614	658
CML3518P2000A2	5627081	1104501	696	DBL 50 600 FS	5239161	6015555	658
CML3518P2000FS	5038771	1104500	695	DBL 50 600 FT	5239215	6015617	658
CML3518P2000FT	6470938	1104570	695	DBLG 20 050 FS	6961528	6015646	659
CMS3518P0150FS	5038474	/100 pc. 1104349	695	DBLG 20 050 FT	6042845	6015648	659
CMS3518P0150FT	6470952	1104581	695	DBLG 20 100 FS	6961580	6015654	659
CMS3518P0200FS	5038535	1104357	695	DBLG 20 100 FT	6042968	6015656	659
CMS3518P0200FT	6470969	1104583	695	DBLG 20 150 FS	6279371	6015658	659
CMS3518P0300FS	5038597	1104373	695	DBLG 20 150 FT	6043088	6015660	659
CMS3518P0300FT	6470976	1104585	695	DBLG 20 200 FS	6961641	6015662	659
CMS3518P0400FS	5052814	1104391	695	DBLG 20 200 FT	6043200	6015664	659
CMS3518P0400FT	6470983	1104587	695	DBLG 20 300 FS	6961702	6015670	659
CMS3518P0500FS	5038658	1104403	695	DBLG 20 300 FT	6043323	6015672	659
CMS3518P0500FT	6470990	1104589	695	DBLG 20 400 FS	6961764	6015689	659
CMS3518P0600FS	5486190	1104411	695	DBLG 20 400 FT	6043446	6015691	659
CMS3518P0600FT	6471003	1104591	695	DBLG 20 500 FS	5239222	6015693	659
CMS3518P0700FS	6470945	1104422	695	DBLG 20 500 FT	5239260	6015695	659
CMS3518P0700FT	6471010	1104593	695	DBLG 20 600 FS	5239277	6015697	659
CMS3518P0800FS	5051732	1104427	695	DBLG 20 600 FT	5239284	6015699	659
CMS3518P0800FT	6471027	1104595	695	DBV 100 S A2	5688600	7130905	255
CMS3518P0900FS	5052630	1104435	695	DBV 100 S A4	5886464	7130920	255
CMS3518P0900FT	6471034	1104597	695	DBV 100 S DD	5850915	7131508	253
CMS3518P1000FS	5052692	price/100 1104445	695	DBV 100 S DD	5850915	7131508	254
CMS3518P1000FT	6471041	1104598	696	DBV 100 S FS	5047568	7130805	253
CMS3518P2000FS	5038719	1104454	695	DBV 100 S FS	5047568	7130805	254
CMS3518P2000FT	6471058	1104599	696	DBV 100 S FT	6222216	7131710	255
CMW90FT	6192496	/pc. 6350151	740	DBV 110 100 F DD	5850960	7131556	257
CPC M6x11	6503070	/100 pc. 1483991	670	DBV 110 100 F FS	5712046	7131030	257
CPC M6x16	6503087	1483993	670	DBV 110 150 F DD	5995777	7131554	257
CPC M6x25	6503094	1483995	670	DBV 110 150 F FS	5995753	7131032	257
CPCN M6	6503100	1483997	670	DBV 110 200 F DD	5809289	7131560	257
CSTR M10 G	6202270	6410103	521	DBV 110 200 F FS	5712053	7131034	257
CSTR M12 G	6202331	6410111	521	DBV 110 300 F DD	5874775	7131564	257
CSTR M8 G	6202218	6410081	521	DBV 110 300 F FS	5712060	7131038	257
				DBV 110 400 F DD	5809296	7131568	257
				DBV 110 400 F FS	5712077	7131042	257
				DBV 110 500 F DD	5874782	7131572	257
				DBV 110 500 F FS	5712084	7131046	257
				DBV 110 550 F DD	5874799	7131574	257
				DBV 110 550 F FS	5712091	7131050	257
				DBV 110 600 F DD	5995784	7131576	257

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DBV 150 S DD	5874386	7131509	254	DBV 600 S FS	5047643	7130829	254
DBV 150 S FS	5047575	7130809	253	DBV 85 100 F DD	5874676	7131672	256
DBV 150 S FS	5047575	7130809	254	DBV 85 100 F FS	5711964	7130990	253
DBV 200 S A2	5886303	7130907	255	DBV 85 100 F FS	5711964	7130990	256
DBV 200 S A4	5886495	7130922	255	DBV 85 200 F DD	5874683	7131676	256
DBV 200 S DD	5809265	7131510	253	DBV 85 200 F FS	5711995	7130994	253
DBV 200 S DD	5809265	7131510	254	DBV 85 200 F FS	5711995	7130994	256
DBV 200 S FS	5047582	7130813	253	DBV 85 300 F DD	5874713	7131680	256
DBV 200 S FS	5047582	7130813	254	DBV 85 300 F FS	5712008	7130998	253
DBV 200 S FT	6222223	7131712	255	DBV 85 300 F FS	5712008	7130998	256
DBV 300 S A2	5886327	7130909	255	DBV 85 400 F DD	5874720	7131684	256
DBV 300 S A4	5886518	7130924	255	DBV 85 400 F FS	5712015	7131002	253
DBV 300 S DD	5874393	7131514	253	DBV 85 400 F FS	5712015	7131002	256
DBV 300 S DD	5874393	7131514	254	DBV 85 500 F DD	5874737	7131688	256
DBV 300 S FS	5047612	7130817	253	DBV 85 500 F FS	5712022	7131006	253
DBV 300 S FS	5047612	7130817	254	DBV 85 500 F FS	5712022	7131006	256
DBV 300 S FT	6222230	7131714	255	DBV 85 600 F DD	5874744	7131692	256
DBV 35 100 F DD	5874430	7131592	255	DBV 85 600 F FS	5712039	7131010	253
DBV 35 100 F FS	5711902	7130764	255	DBV 85 600 F FS	5712039	7131010	256
DBV 35 150 F DD	5874447	7131594	255	DBV FS	5373070	6356055	521
DBV 35 150 F FS	5711933	7130768	255	DBV FS	5373070	6356055	658
DBV 35 200 F DD	5874485	7131596	255			price/m	
DBV 35 200 F FS	5711940	7130772	255	DF BKR10 FS AL	6146826	6049181	259
DBV 35 300 F DD	5874492	7131600	255	DF BKR20 FS AL	6146857	6049183	259
DBV 35 300 F FS	5711957	7130776	255	DF BKR30 FS AL	6146864	6049185	259
DBV 400 S A2	5886365	7130911	255	DF BKR40 FS AL	6146871	6049187	259
DBV 400 S A4	5886525	7130926	255	DF BKR50 FS AL	6146888	6049189	259
DBV 400 S DD	5809272	7131518	253	DF BKR60 FS AL	6146918	6049191	259
DBV 400 S DD	5809272	7131518	254				
DBV 400 S FS	5047629	7130821	253	DFAA 050 FS	6687695	7132110	249
DBV 400 S FS	5047629	7130821	254	DFAA 050 FT	6688685	7132115	249
DBV 400 S FT	6401260	7131716	255			/pc.	
DBV 500 S A2	5886389	7130913	255	DFAA 100 A2	6257058	7136900	250
DBV 500 S A4	5886556	7130928	255	DFAA 100 A4	6801961	7136902	250
DBV 500 S DD	5874409	7131524	253			/pc.	
DBV 500 S DD	5874409	7131524	254	DFAA 100 DD	6252190	7131305	249
DBV 500 S FS	5047636	7130825	253	DFAA 100 FS	6249015	7128428	249
DBV 500 S FS	5047636	7130825	254	DFAA 150 FS	6526154	7128436	249
DBV 60 100 F A2	5688617	7130952	256	DFAA 200 A2	6257119	7136919	250
DBV 60 100 F A4	5886310	7130972	256	DFAA 200 A4	5866800	7136921	250
DBV 60 100 F DD	5874546	7131632	253	DFAA 200 DD	6252251	7131321	249
DBV 60 100 F DD	5874546	7131632	256	DFAA 200 FS	6249077	7128444	249
DBV 60 100 F FS	5047681	7130852	253	DFAA 300 A2	6257171	7136927	250
DBV 60 100 F FS	5047681	7130852	256	DFAA 300 A4	5866817	7136929	250
DBV 60 150 F DD	5874553	7131634	253	DFAA 300 DD	6252312	7131348	249
DBV 60 150 F DD	5874553	7131634	256	DFAA 300 FS	6249138	7128460	249
DBV 60 150 F FS	5047698	7130856	253	DFAA 400 A2	6257232	7136935	251
DBV 60 150 F FS	5047698	7130856	256	DFAA 400 A4	5866824	7136937	251
DBV 60 200 F A2	5886259	7130954	256	DFAA 400 DD	6252374	7131356	249
DBV 60 200 F A4	5886358	7130974	256	DFAA 400 FS	6249190	7128487	249
DBV 60 200 F DD	5874560	7131636	253	DFAA 500 A2	6257294	7136943	251
DBV 60 200 F DD	5874560	7131636	256	DFAA 500 A4	5866862	7136944	251
DBV 60 200 F FS	5047704	7130860	253	DFAA 500 DD	6252435	7131364	249
DBV 60 200 F FS	5047704	7130860	256	DFAA 500 FS	6249251	7128509	249
DBV 60 300 F A2	5886266	7130956	256	DFAA 550 DD	6252497	7131372	249
DBV 60 300 F A4	5886372	7130976	256	DFAA 550 FS	6249312	7128517	249
DBV 60 300 F DD	5874607	7131640	253	DFAA 600 A2	6257355	7136978	251
DBV 60 300 F DD	5874607	7131640	256	DFAA 600 A4	5866879	7136980	251
DBV 60 300 F FS	5047735	7130864	253	DFAA 600 DD	6252558	7131380	249
DBV 60 300 F FS	5047735	7130864	256	DFAA 600 FS	6249374	7128525	249
DBV 60 400 F A2	5886273	7130958	256	DFAA BKR 100 FS	6860753	6049400	251
DBV 60 400 F A4	5886426	7130978	256	DFAA BKR 200 FS	6860760	6049402	251
DBV 60 400 F DD	5874614	7131644	253	DFAA BKR 300 FS	6860791	6049404	251
DBV 60 400 F DD	5874614	7131644	256	DFAA BKR 400 FS	6860807	6049406	251
DBV 60 400 F FS	5047742	7130868	253	DFAA BKR 500 FS	6860814	6049408	251
DBV 60 400 F FS	5047742	7130868	256	DFAA BKR 600 FS	6860821	6049410	251
DBV 60 500 F A2	5886280	7130960	256			/pc.	
DBV 60 500 F A4	5886433	7130980	256	DFAAM 100 A2	5930723	7138720	250
DBV 60 500 F DD	5874621	7131648	253	DFAAM 100 A4	5930815	7138740	250
DBV 60 500 F DD	5874621	7131648	256	DFAAM 100 DD	5930655	7138680	250
DBV 60 500 F FS	5047759	7130872	253	DFAAM 100 FS	5930587	7138640	250
DBV 60 500 F FS	5047759	7130872	256	DFAAM 150 DD	5930662	7138682	250
DBV 60 600 F A2	5886297	7130962	256	DFAAM 150 FS	5930594	7138642	250
DBV 60 600 F A4	5886440	7130982	256	DFAAM 200 A2	5930761	7138724	250
DBV 60 600 F DD	5874669	7131652	253	DFAAM 200 A4	5930839	7138744	250
DBV 60 600 F DD	5874669	7131652	256	DFAAM 200 DD	5930679	7138684	250
DBV 60 600 F FS	5047766	7130876	253	DFAAM 200 FS	5930600	7138644	250
DBV 60 600 F FS	5047766	7130876	256	DFAAM 300 A2	5930778	7138726	250
DBV 600 S A2	5886419	7130915	255	DFAAM 300 A4	5930846	7138746	250
DBV 600 S A4	5886563	7130930	255	DFAAM 300 DD	5930686	7138686	250
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DFAAM 400 A4	5930853	7138748	250	DFBM 45 400 FS	5928799	7138368	246
DFAAM 400 DD	5930693	7138688	250	DFBM 45 500 DD	5928904	7138410	246
DFAAM 400 FS	5930624	7138648	250	DFBM 45 500 FS	5928812	7138370	246
DFAAM 500 A2	5930792	7138730	250	DFBM 45 600 DD	5928911	7138412	246
DFAAM 500 A4	5930860	7138750	250	DFBM 45 600 FS	5928829	7138372	246
DFAAM 500 DD	5930709	7138690	250	DFBM 90 100 A2	5929260	7138570	248
DFAAM 500 FS	5930631	7138650	250	DFBM 90 100 A4	5929338	7138590	248
DFAAM 600 A2	5930808	7138732	250	DFBM 90 100 DD	5929192	7138540	248
DFAAM 600 A4	5930877	7138752	250	DFBM 90 100 FS	5929093	7138500	248
DFAAM 600 DD	5930716	7138692	250	DFBM 90 150 DD	5929208	7138542	248
DFAAM 600 FS	5930648	7138652	250	DFBM 90 150 FS	5929109	7138502	248
DFB 45 100 DD	6252671	7131828	245	DFBM 90 200 A2	5929284	7138574	248
DFB 45 100 FS	6249855	7128819	245	DFBM 90 200 A4	5929352	7138594	248
DFB 45 100 FT	6923595	7132002	257	DFBM 90 200 DD	5929215	7138544	248
DFB 45 150 DD	6027125	7131836	245	DFBM 90 200 FS	5929116	7138504	248
DFB 45 150 FS	6526338	7128827	245	DFBM 90 300 A2	5929291	7138576	248
DFB 45 200 DD	6252732	7131844	245	DFBM 90 300 A4	5929369	7138596	248
DFB 45 200 FS	6249916	7128835	245	DFBM 90 300 DD	5929222	7138546	248
DFB 45 200 FT	6923656	7132004	257	DFBM 90 300 FS	5929123	7138506	248
DFB 45 300 DD	6252794	7131860	245	DFBM 90 400 A2	5929307	7138578	248
DFB 45 300 FS	6249978	7128851	245	DFBM 90 400 A4	5929376	7138598	248
DFB 45 300 FT	6923717	7132006	257	DFBM 90 400 DD	5929239	7138548	248
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DFB 45 550 DD	6252978	7131895	245	DFBM 90 500 FS	5929147	7138510	248
DFB 45 550 FS	6250158	7128916	245	DFBM 90 600 A2	5929321	7138582	248
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DFB 90 100 DD	6251230	7130511	246	DFBMV 150 FS	6040551	6040762	248
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DFB 90 100 FT	6924073	7132022	257	DFBMV 200 A4	6041152	6040824	249
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DFB 90 150 FS	6526451	7129629	246	DFBMV 200 FS	6040599	6040764	248
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DFB 90 300 DD	6251353	7130562	246	DFBMV 400 FS	6040629	6040768	248
DFB 90 300 FS	6250875	7129653	246	DFBMV 500 A2	6041039	6040810	249
DFB 90 300 FT	6924196	7132026	257	DFBMV 500 A4	6041268	6040830	249
DFB 90 400 A2	6255078	7134932	247	DFBMV 500 DD	6040865	6040790	248
DFB 90 400 A4	5866664	7134992	247	DFBMV 500 FS	6040674	6040770	248
DFB 90 400 DD	6251414	7130589	247	DFBMV 600 A2	6041107	6040812	249
DFB 90 400 FS	6250936	7129688	247	DFBMV 600 A4	6041275	6040832	249
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DFB90 BKR 400 FS	6860708	6049378	258	DFK 300 DD	6251834	7131127	258
DFB90 BKR 500 FS	6860739	6049380	258	DFK 300 FS	6249558	7128657	254
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DFBM 45 100 DD	5928836	7138400	246	DFK 400 DD	6251896	7131143	254
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DGRR 600 FS	6687183	6001854	378	DRL 300 A4	6955817	6052983	243
DGRR 600 FT	6687329	6001834	378	DRL 300 DD	6038954	6052712	243
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DRL 600 FS	6058754	6052606	243	DRLU 200 DD	6657674	6052650	480
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DRL FAM 230 FT	6179824	6051222	498	DRLU 300 DD	6336678	6052656	379
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DRL FAM 330 FT	6179855	6051224	498	DRLU 400 A2	6032235	6052837	481
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DRL FAM 530 FT	6179879	6051228	312	DRLU 500 A2	6032297	6052841	481
DRL FAM 530 FT	6179879	6051228	484	DRLU 500 A4	5021223	6052996	379
DRL FAM 530 FT	6179879	6051228	498	DRLU 500 A4	5021223	6052996	242
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DRL FAM 630 A2	6219667	6051200	484	DRLU 500 DD	6336791	6052668	242
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DRL FAM 630 A4	6219759	6051218	484	DRLU 500 DD	6336791	6052668	480
DRL FAM 630 FT	6179886	6051230	312	DRLU 500 FS	6031634	6052512	242
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DRL FAM 630 FT	6179886	6051230	498	DRLU 500 FS	6031634	6052512	480
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DRL H FT	6619047	6065012	311	DRLU 550 DD	6336852	6052671	480
DRL H S A2	6619054	6065016	245	DRLU 550 FS	6031696	6052571	242
DRL H S A2	6619054	6065016	310	DRLU 550 FS	6031696	6052571	379
DRL H S FT	6689675	6065018	244	DRLU 550 FS	6031696	6052571	480
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DRLU 050 A2	6031818	6052821	379	DRLU 600 A2	6032358	6052844	481
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DRLU 050 DD	6657490	6052640	242	DRLU 600 A4	5021247	6052998	242
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DRLU 050 FS	6029655	6052056	379	DRLU 600 DD	6336913	6052674	480
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EKS 660 FS	6389896	6056628	147			/pc.	
EKS 660 FT	6333615	6056997	148	FVM 110 DD	6054824	6065910	213
EKSU 620 FT SO	6029259	7189980	149	FVM 115 DD	6054831	6065912	213
				FVM 120 DD	6054879	6065914	213
ELB-L 20 DD	6029150	6103352	311	FVM 130 DD	6054886	6065916	213
ELB-L 20 DD	6029150	6103352	477	FVM 140 DD	6054930	6065918	213
ELB-L 20 FS	6420735	6103235	311	FVM 150 DD	6054947	6065920	213
ELB-L 20 FS	6420735	6103235	477	FVM 160 DD	6054954	6065922	213
ELB-L 20 FT	6289455	6103421	311	FVM 610 DD	6053797	6065710	113
ELB-L 20 FT	6289455	6103421	477	FVM 615 DD	6053803	6065712	113
				FVM 620 DD	6053858	6065714	113
ELB-L 30 DD	6029198	6103356	311	FVM 630 DD	6053865	6065716	113
ELB-L 30 DD	6029198	6103356	477	FVM 640 A2	6054046	6065738	113
ELB-L 30 FS	6420858	6103251	311	FVM 640 DD	6053872	6065718	113
ELB-L 30 FS	6420858	6103251	477	FVM 650 DD	6053919	6065720	113
ELB-L 30 FT	6308651	6103448	311	FVM 660 DD	6053926	6065722	113
ELB-L 30 FT	6308651	6103448	477	FVM 810 DD	6054282	6065810	179
				FVM 820 DD	6054343	6065814	179
ELB-L 40 DD	6029204	6103360	311	FVM 830 DD	6054350	6065816	179
ELB-L 40 DD	6029204	6103360	477	FVM 840 DD	6054398	6065818	179
ELB-L 40 FS	6420971	6103286	311	FVM 850 DD	6054404	6065820	179
ELB-L 40 FS	6420971	6103286	477	FVM 860 DD	6054466	6065822	179
ELB-L 40 FT	6308590	6103456	311				
ELB-L 40 FT	6308590	6103456	477	G 8X71 G	6290598	6344569	597
ELB-L 50 DD	6029211	6103364	311	GEV 36 A2	6013333	6016731	376
ELB-L 50 DD	6029211	6103364	477	GEV 36 A4	6120253	6016764	376
ELB-L 50 FS	6421091	6103316	311	GEV 36 FT	6013272	6016723	376
ELB-L 50 FS	6421091	6103316	477	GEV 36 G	6307876	6016715	376
ELB-L 50 FT	6308538	6103464	311				
ELB-L 50 FT	6308538	6103464	477			price/m	
				G-GRM 125 75 A2	5686491	6005556	368
ELB-L 60 DD	6029228	6103368	311	G-GRM 125 75 A4	5771647	6005571	369
ELB-L 60 DD	6029228	6103368	477	G-GRM 125 75 FT	5686415	6005526	367
ELB-L 60 FS	6421213	6103332	311	G-GRM 125 75 G	5686453	6005541	366
ELB-L 60 FS	6421213	6103332	477	G-GRM 150 100 A2	5686507	6005559	372
ELB-L 60 FT	6308477	6103480	311	G-GRM 150 100 A4	5771654	6005574	373
ELB-L 60 FT	6308477	6103480	477	G-GRM 150 100 FT	5686422	6005529	371
				G-GRM 150 100 G	5686460	6005544	370
ELB-L20 A2	5037354	6103614	311	G-GRM 50 50 A2	5686477	6005550	360
ELB-L20 A2	5037354	6103614	477	G-GRM 50 50 A4	5771593	6005565	361
ELB-L30 A2	5037361	6103618	311	G-GRM 50 50 FT	5686392	6005520	359
ELB-L30 A2	5037361	6103618	477	G-GRM 50 50 G	5686439	6005535	358
ELB-L40 A2	5037378	6103622	311				
ELB-L40 A2	5037378	6103622	477				



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G-GRM 75 50 A2	5686484	6005553	364	GMS 3 O 4121 A2	5805076	/100 pc.	737
G-GRM 75 50 A4	5771609	6005568	365	GMS 3 O 4121 A4	5805298	1124751	737
G-GRM 75 50 FT	5686408	6005523	363	GMS 3 O 4121 FT	5486152	1124671	737
G-GRM 75 50 G	5686446	6005538	362	GMS 3 O 4141 A2	5805083	1124713	737
		/pc.		GMS 3 O 4141 A4	5805304	1124753	737
G-GRM-R125 A2	5815860	6005642	391	GMS 3 O 4141 FT	5486169	1124673	736
G-GRM-R125 FS	5815822	6005612	391	GMS 3 VP A2	5804918	1124687	733
G-GRM-R150 A2	5815877	6005645	392	GMS 3 VP A2	5804918	1124687	734
G-GRM-R150 FS	5815839	6005615	392	GMS 3 VP A4	5805175	1124727	734
G-GRM-R50 A2	5815846	6005635	391	GMS 3 VP FT	5486039	1124647	734
G-GRM-R50 FS	5815808	6005605	390	GMS 3 VP L A2	5804949	1124693	735
G-GRM-R75 A2	5815853	6005637	391	GMS 3 VP L A4	5805205	1124733	735
G-GRM-R75 FS	5815815	6005607	391	GMS 3 VP L FT	5486060	1124653	735
G-GRM-SH 4401	5938699	6005650	380	GMS 3 VW 45 A2	5805052	1124707	737
				GMS 3 VW 45 A4	5805274	1124747	737
GKB 34 A2	5694069	6016676	382	GMS 3 VW 45 FT	5486138	1124667	737
GKB 34 G	5694052	6016674	381	GMS 3 VW 90 A2	5805007	1124701	739
GKB 38 A2	5709473	6017018	384	GMS 3 VW 90 A2	5805007	1124701	739
GKB 38 G	5709480	6017020	384	GMS 3 VW 90 A4	5805243	1124741	739
				GMS 3 VW 90 FT	5486107	1124661	739
GKS 34 A2	6013456	6016839	380		/pc.		
GKS 34 A4	6120437	6016859	380	GMS 370 A4	6952212	6015420	654
GKS 34 FS SP	6120314	6016857	381	GMS 370 FS	6940998	6015404	654
GKS 34 FT	6013395	6016820	380		/100 pc.		
GKS 34 FT SP	6120376	6016858	380	GMS 4 VP A2	5804925	1124689	734
GKS 34 FTK LGR	6332533	6479367	381	GMS 4 VP A4	5805182	1124729	734
GKS 34 G	7261436	6016855	380	GMS 4 VP FT	5486046	1124649	734
GKS 50 07 A4	5770947	6015310	383	GMS 4 VP T A2	5804956	1124695	736
GKS 50 07 FS	6421398	6015263	382	GMS 4 VP T A4	5805212	1124735	736
GKS 50 07 FS SP	6661930	6015290	382	GMS 4 VP T FT	5486077	1124655	736
GKS 50 07 FT	6785353	6015271	382	GMS 4 VW 45 A2	5805069	1124709	738
GKS 50 11 A4	6937394	6015280	383	GMS 4 VW 45 A4	5805281	1124749	738
GKS 50 11 FS	6965847	6015276	382	GMS 4 VW 45 FT	5486145	1124669	738
GKS 50 11 FT	6965908	6015278	382	GMS 4 VW 90 A2	5805014	1124703	739
GKS 50 11 OP A4	5887256	6015315	383	GMS 4 VW 90 A2	5805014	1124703	740
				GMS 4 VW 90 A4	5805250	1124743	740
GKT 38 A2	6013579	6017045	326	GMS 4 VW 90 FT	5486114	1124663	739
GKT 38 A2	6013579	6017045	335		/pc.		
GKT 38 A2	6013579	6017045	345	GMS 470 A4	6952274	6015421	654
GKT 38 A2	6013579	6017045	377	GMS 470 FS	6941056	6015406	654
GKT 38 A2	6013579	6017045	382		/100 pc.		
GKT 38 A4	6120499	6017092	326	GMS 5 VP A2	5804932	1124691	735
GKT 38 A4	6120499	6017092	335	GMS 5 VP A4	5805199	1124731	735
GKT 38 A4	6120499	6017092	345	GMS 5 VP FT	5486053	1124651	734
GKT 38 A4	6120499	6017092	377	GMS 5 VP X A2	5804963	1124697	735
GKT 38 A4	6120499	6017092	382	GMS 5 VP X A4	5805229	1124737	735
GKT 38 FT	6013630	6017061	326	GMS 5 VP X FT	5486084	1124657	735
GKT 38 FT	6013630	6017061	335		/pc.		
GKT 38 FT	6013630	6017061	345	GMS 570 A4	6952335	6015422	654
GKT 38 FT	6013630	6017061	377	GMS 570 FS	6941117	6015408	654
GKT 38 FT	6013630	6017061	382		/100 pc.		
GKT 38 G	6307937	6017037	325	GMS 6 KD A2	6559831	1124796	740
GKT 38 G	6307937	6017037	334	GMS 6 KD A4	6559848	1124798	740
GKT 38 G	6307937	6017037	344	GMS 6 KD FT	6559824	1124792	740
GKT 38 G	6307937	6017037	377		/pc.		
GKT 38 G	6307937	6017037	382	GP 15 28 FT	6296354	6357008	760
GMA M10 FS	6421510	6015247	655	GP 31 28 FT	6296415	6357016	761
GMA M10 FT	6942619	6015255	655				
GMA M6 FS	6421695	6015220	655	GR BS	6784974	6017698	388
GMA M6 FT	5649786	6015224	655				
GMA M8 FS	6421572	6015239	655				
GMA M8 FT	5928737	6015243	655				
		/100 pc.		GR KS 3.9 OR	5872887	6003750	384
GMS 1 VP A2	5804895	1124683	733	GR KS 4.8 OR	5872894	6003754	384
GMS 1 VP A2	5804895	1124683	733				
GMS 1 VP A4	5805137	1124723	733				
GMS 1 VP FT	5486015	1124643	732				
		/pc.					
GMS 170 A4	6952090	6015418	654	GRB 90 110 FT	6002054	6002307	345
GMS 170 FS	6940875	6015400	654	GRB 90 110 G	5456230	6002370	345
		/100 pc.		GRB 90 115 FT	6027361	6002311	345
GMS 2 VP A2	5804901	1124685	733	GRB 90 115 G	5456247	6002372	345
GMS 2 VP A4	5805144	1124725	733	GRB 90 120 FT	6002115	6002315	345
GMS 2 VP FT	5486022	1124645	733	GRB 90 120 G	5456254	6002374	345
GMS 2 VW 90 A2	5804994	1124699	738	GRB 90 130 FT	6002177	6002323	345
GMS 2 VW 90 A2	5804994	1124699	738	GRB 90 130 G	5456261	6002376	345
GMS 2 VW 90 A4	5805236	1124739	738	GRB 90 140 FT	6002238	6002331	345
GMS 2 VW 90 FT	5486091	1124659	738	GRB 90 140 G	5456278	6002378	345
		/pc.		GRB 90 145 G	5456285	6002380	345
GMS 270 A4	6952151	6015419	654		/pc.		
GMS 270 FS	6940936	6015402	654	GRB 90 150 FT	6002290	6002358	345
				GRB 90 150 G	5456292	6002382	345
				GRB 90 160 FT	6002351	6002366	345
				GRB 90 160 G	5456308	6002384	345

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GRB 90 510 G	6352630	6001920	335	GRM 55 400 A2	6102198	6001080	330
GRB 90 515 FT	6027248	6002222	335	GRM 55 400 A4	5166085	6001095	331
GRB 90 515 G	6624799	6001998	335	GRM 55 400 FT	6815111	6001428	329
GRB 90 520 FT	6001750	6002226	335	GRM 55 400 G	6858736	6001450	328
GRB 90 520 G	6352692	6001939	335	GRM 55 450 G	6018185	6001451	328
GRB 90 530 FT	6001811	6002234	335	GRM 55 50 A2	5430933	6001070	330
GRB 90 530 G	6352753	6001947	335	GRM 55 50 A4	5431046	6001087	331
GRB 90 540 FT	6001873	6002242	335	GRM 55 50 FT	5430940	6001415	329
GRB 90 540 G	6352814	6001955	335	GRM 55 50 G	5430957	6001441	328
GRB 90 550 FT	6001934	6002250	335	GRM 55 500 A2	6102259	6001082	330
GRB 90 550 G	6352876	6001963	335	GRM 55 500 A4	5166122	6001097	331
GRB 90 560 FT	6001996	6002269	335	GRM 55 500 FT	6815173	6001432	329
GRB 90 560 G	6352937	6001971	335	GRM 55 500 G	6858798	6001452	328
		price/m		GRM 55 600 A2	6102310	6001085	330
GRM 105 100 A2	5149620	6002451	342	GRM 55 600 A4	5166139	6001099	331
GRM 105 100 A4	5874904	6002475	343	GRM 55 600 FT	6815234	6001436	329
GRM 105 100 FT	6021239	6002431	341	GRM 55 600 G	6858859	6001454	328
GRM 105 100 G	6020270	6002402	340	GRM-2T 55 200 G	5438649	6006395	333
GRM 105 150 A2	5422624	6002455	342	GRM-2T 55 300 G	5438656	6006396	333
GRM 105 150 A4	5874911	6002476	343	GRM-2T 55 400 G	5438663	6006397	333
GRM 105 150 FT	6021352	6002433	341	GRM-2T 55 500 G	5480419	6006468	333
GRM 105 150 G	6020393	6002404	340	GRM-T 55 100 G	6150854	6006453	332
GRM 105 200 A2	5149637	6002457	342	GRM-T 55 200 G	6151219	6006455	332
GRM 105 200 A4	5874928	6002477	343	GRM-T 55 300 G	6151578	6006456	332
GRM 105 200 FT	6021475	6002435	341	GRM-T 55 400 G	6151936	6006457	332
GRM 105 200 G	6020515	6002406	340	GRM-T 55 500 G	6152292	6006458	332
GRM 105 300 A2	5149644	6002460	342			/pc.	
GRM 105 300 A4	5874959	6002479	343	GRS 3.9 DD	6518111	6016545	376
GRM 105 300 FT	6021598	6002437	341	GRS 4.8 DD	6517992	6016561	376
GRM 105 300 G	6020638	6002408	340				
GRM 105 400 A2	5149675	6002463	342	GRV 245 A4	6054312	6016688	375
GRM 105 400 A4	5874966	6002481	343	GRV 245 DD	6054251	6016684	375
GRM 105 400 FT	6021710	6002439	341	GRV 245 FS	6052578	6016680	375
GRM 105 400 G	6020751	6002410	340				
GRM 105 450 FT	6021833	6002441	341	GSV 34 A2	6013210	6016642	374
GRM 105 450 G	6020874	6002413	340	GSV 34 A4	6120079	6016648	374
GRM 105 500 A2	5149682	6002466	342	GSV 34 FT	6013159	6016634	374
GRM 105 500 A4	5874980	6002483	343	GSV 34 G	6520510	6016596	374
GRM 105 500 FT	6021956	6002443	341				
GRM 105 500 G	6020997	6002415	340	GUV 6 A2	6593880	6016574	375
GRM 105 600 A2	5771586	6002469	342	GUV 6 FT	6593873	6016573	374
GRM 105 600 A4	5875017	6002485	343	GUV 6 G	6593866	6016572	375
GRM 105 600 FT	6022076	6002445	341				
GRM 105 600 G	6021116	6002417	340	GVM 200 FT	6947898	6083210	238
GRM 35 100 A2	5467700	6000055	323			/100 pc.	
GRM 35 100 A4	5360759	6000087	324	GVMS 4 ASV A2	5804888	1124681	732
GRM 35 100 FT	5037200	6000071	322	GVMS 4 ASV A4	5805120	1124715	732
GRM 35 100 G	5037149	6000062	321	GVMS 4 ASV FT	5486008	1124641	732
GRM 35 150 A2	5467731	6000056	323			price/m	
GRM 35 150 A4	5360766	6000089	324	GW 40 80 FT	6002955	6003818	390
GRM 35 150 FT	5037231	6000072	322			/100 pc.	
GRM 35 150 G	5037170	6000063	321	HS M6x13 A2	5463399	1154990	383
GRM 35 200 A2	5470724	6000057	323	HS M8x60 A4	5732570	1154975	383
GRM 35 200 A4	5360773	6000090	324			/pc.	
GRM 35 200 FT	5037248	6000073	322	HTS 35	5477259	1125036	743
GRM 35 200 G	5037187	6000064	321			price/m	
GRM 35 300 A2	5470731	6000059	323	IKS 610 FS	6168439	6087116	152
GRM 35 300 A4	5360780	6000091	324	IKS 620 FS	6335053	6087132	152
GRM 35 300 FT	5037255	6000075	322	IKS 630 FS	6335114	6087140	152
GRM 35 300 G	5037194	6000066	321	IKS 640 FS	6335176	6087159	152
GRM 35 50 A2	5650591	6000054	323			/pc.	
GRM 35 50 A4	5978077	6000086	324	IS 8 100 FT	6183197	6337112	618
GRM 35 50 FT	5624820	6000069	322	IS 8 110 FT	6183258	6337120	618
GRM 35 50 G	5624813	6000060	321	IS 8 120 FT	5804550	6337139	618
GRM 55 100 A2	6101290	6001072	330	IS 8 130 FT	5805038	6337147	618
GRM 55 100 A4	5166016	6001088	331	IS 8 140 FT	5934936	6337155	618
GRM 55 100 FT	6814879	6001416	329	IS 8 150 FT	6183494	6337163	618
GRM 55 100 G	6858552	6001442	328	IS 8 160 FT	5934752	6337171	618
GRM 55 150 A2	6101351	6001074	330	IS 8 170 FT	6183616	6337198	618
GRM 55 150 A4	5166023	6001090	331	IS 8 180 FT	5934875	6337201	618
GRM 55 150 FT	6078912	6001418	329	IS 8 190 FT	5934219	6337228	618
GRM 55 150 G	6078974	6001444	328	IS 8 200 FT	6183791	6337236	618
GRM 55 200 4.8 G	5045274	6001447	328	IS 8 250 FT	5042761	6337240	618
GRM 55 200 4.8FT	5045281	6001421	329	IS 8 30 FT	6182770	6337031	618
GRM 55 200 A2	6101412	6001076	330				
GRM 55 200 A4	5166061	6001091	331				
GRM 55 200 FT	6814930	6001420	329				
GRM 55 200 G	6858613	6001446	328				
GRM 55 300 A2	6101771	6001078	330				
GRM 55 300 A4	5166078	6001093	331				
GRM 55 300 FT	6815050	6001424	329				



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IS 8 40 FT	6182831	6337058	618			/pc.	
IS 8 50 FT	6182893	6337066	618	KLL 32 A2	5849872	6221063	473
IS 8 60 FT	6182954	6337074	618	KLL 32 FT	5849841	6221061	473
IS 8 600 FT	6183913	6337252	618	KLL 32 MD A2	6654659	6221065	475
IS 8 70 FT	6183012	6337082	618			/pc.	
IS 8 80 FT	6183074	6337090	618	KLL 52 A2	5849896	6221073	473
IS 8 90 FT	6183135	6337104	618	KLL 52 FT	5849889	6221071	473
IS 8 K 100 FT	6196814	6361218	616	KLL 52 MD A2	6654673	6221075	475
IS 8 K 110 FT	6196876	6361234	616			/100 pc.	
IS 8 K 120 FT	6196937	6361250	616	KM M10 A4	5910985	6408930	383
IS 8 K 130 FT	6196999	6361277	616	KM M12 A4	5911043	6408940	383
IS 8 K 140 FT	6197057	6361293	616	KM M6 A4	6078615	6408970	383
IS 8 K 150 FT	6197118	6361315	616	KM M8 A4	5910961	6408920	383
IS 8 K 160 FT	6197170	6361331	616				
IS 8 K 170 FT	6197231	6361366	616	KNG G	6936199	6050375	522
IS 8 K 180 FT	6197293	6361382	616			/pc.	
IS 8 K 20 FT	6196333	6361021	616	KS 23 35 A2	6013098	6016529	381
IS 8 K 200 FT	6197415	6361420	616	KS 23 35 FT	6012312	6015174	381
IS 8 K 30 FT	6196395	6361056	616			/100 pc.	
IS 8 K 300 FT	6472031	6361692	617	KS GR A2	5694625	6062282	325
IS 8 K 40 FT	6196456	6361072	616	KS GR A2	5694625	6062282	334
IS 8 K 50 FT	6196517	6361099	616	KS GR A2	5694625	6062282	344
IS 8 K 60 FT	6196579	6361110	616	KS GR A2	5694625	6062282	380
IS 8 K 70 FT	6196630	6361137	616			/pc.	
IS 8 K 80 FT	6196692	6361153	616	KS GR LBL	5903468	6017714	388
IS 8 K 90 FT	6196753	6361188	616	KS GR LGR	5848264	6017710	388
IS 8 KS OR	5668077	6338519	506	KS GR OR	5848288	6017712	388
IS 8 KS OR	5668077	6338519	618	KS GR SGN	5903475	6017715	388
K 11 262 A2	6359899	6016367	376	KS GR VKG	5848271	6017711	388
K 11 262 FT	6359172	6015107	375	KS GR ZGB	5848295	6017713	388
K 12 1818 FS	6208876	6437109	388			/100 pc.	
K 6 101 A2	6012978	6016391	659	KS KL A2	5694656	6062284	295
K 6 101 FS	6190393	6343090	379	KS KL A2	5694656	6062284	303
K 6 101 FT	6190454	6343104	379	KS KL A2	5694656	6062284	307
K12 1818 A2	6013036	6016421	389	KS KL A2	5694656	6062284	419
K12 1818 A4	6804306	6016425	389	KS KL A2	5694656	6062284	433
				KS KR A2	5694618	6062280	76
		/pc.		KS MKS SKS FS	6146352	6062300	158
KA-ASY FT	6346875	6346820	605	KS RKS FS	6599950	6062296	158
KA-AW 30 FT	6536832	6346715	574			price/100	
KA-AW 80 FT	6536894	6346731	574	KSB 2 PVC	6295395	6072909	259
KAB GR A2	5807155	6220145	378	KSB 4 PVC	6295579	6072895	259
KAB GR FS	5677932	6220139	377			/pc.	
KAB GR FT	5807124	6220142	377	KSR-910 PE	6065172	6066712	518
KA-E 45 FT	6340156	6346758	574	KSR-910 PE	6065172	6066712	539
KA-EA FT	5703938	6346763	575	KSR-915 PE	6065110	6066704	518
KA-SY FT	6346813	6346804	605	KSR-915 PE	6065110	6066704	539
KFL G	6702725	6049273	263	KSR-920 PE	5811114	6066696	539
		/pc.		KSR-925 PE	5811084	6066688	539
KI 8 AOX FT	6190638	6347088	620	KSR-DR 920 PE	6346639	6087965	519
KI 8 FT	6190515	6347053	619	KTSMV 110 A2	5890317	6069134	211
KI 8 NOK FT	6190577	6347061	619	KTSMV 110 DD	5890249	6069112	210
KI 8 VLK FT	6190997	6348157	619	KTSMV 110 FS	5890157	6069090	210
KI 8 VLP FT	6190874	6347843	619	KTSMV 115 DD	5890256	6069114	211
KI 8 VQP FT	6190935	6348106	619	KTSMV 115 FS	5890164	6069092	211
				KTSMV 120 A2	5890331	6069138	211
KI8 CPS5-1-300FT	5849766	6347026	620	KTSMV 120 DD	5890263	6069116	210
KI8 CPS5-1-400FT	5808541	6347030	620	KTSMV 120 FS	5890195	6069094	210
KI8 CPS5-1-500FT	5849773	6347028	620	KTSMV 130 A2	5890348	6069140	211
KI8 CPS5-2-300FT	5849780	6347036	620	KTSMV 130 DD	5890270	6069118	210
KI8 CPS5-2-400FT	5808558	6347032	620	KTSMV 130 FS	5890201	6069096	210
KI8 CPS5-2-500FT	5849810	6347038	620	KTSMV 140 A2	5890355	6069142	211
				KTSMV 140 DD	5890287	6069120	210
KL 20 FT	6003013	6003850	383	KTSMV 140 FS	5890218	6069098	210
				KTSMV 150 A2	5890362	6069144	211
KL 30 FT	6003075	6003869	383	KTSMV 150 DD	5890294	6069122	210
				KTSMV 150 FS	5890225	6069100	210
KL1 10 S FT	6194292	6354106	676	KTSMV 160 A2	5890379	6069146	211
KL1 15 S FT	6194353	6354114	676	KTSMV 160 DD	5890300	6069124	210
KL1 20 S FT	6194414	6354122	676	KTSMV 160 FS	5890232	6069102	210
				KTSMV 310 FS	5889441	6068900	76
KLAS 15 30 FT	6675586	6419015	575	KTSMV 320 FS	5889489	6068902	76
				KTSMV 330 FS	5889496	6068904	76

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KTSMV 610 A2	5889571	6068958	110	KWS 10 FT	6194834	6355226	676
KTSMV 610 A4	5889649	6068980	110	KWS 15 FT	6194896	6355234	676
KTSMV 610 DD	5890492	6068936	110	KWS 20 FT	6194957	6355242	676
KTSMV 610 FS	5889502	6068914	110	KWS 25 FT	6195015	6355250	676
KTSMV 615 DD	5890508	6068938	110	KWS 5 FT	6194773	6355218	676
KTSMV 615 FS	5889519	6068916	110			/pc.	
KTSMV 620 A2	5889595	6068962	110	LAA 1120 R3 FS	6445486	6225910	436
KTSMV 620 A4	5889663	6068984	110	LAA 1120 R3 FT	6445554	6225930	436
KTSMV 620 DD	5890515	6068940	110	LAA 1130 R3 FS	6445493	6225912	436
KTSMV 620 FS	5889526	6068918	110	LAA 1130 R3 FT	6445561	6225932	436
KTSMV 630 A2	5889601	6068964	110	LAA 1140 R3 FS	6445509	6225914	436
KTSMV 630 A4	5889670	6068986	110	LAA 1140 R3 FT	6445578	6225934	436
KTSMV 630 DD	5890522	6068942	110	LAA 1145 R3 FT	6445585	6225936	436
KTSMV 630 FS	5889533	6068920	110	LAA 1150 R3 FS	6445530	6225916	436
KTSMV 640 A2	5889618	6068966	110	LAA 1150 R3 FT	6445592	6225938	436
KTSMV 640 A4	5889687	6068988	110	LAA 1160 R3 FS	6445547	6225918	436
KTSMV 640 DD	5890560	6068944	110	LAA 1160 R3 FT	6445608	6225940	436
KTSMV 640 FS	5889540	6068922	110	LAA 620 R3 A2	6567393	6225882	421
KTSMV 650 A2	5889625	6068968	110	LAA 620 R3 A4	6567461	6225894	421
KTSMV 650 A4	5889717	6068990	110			/pc.	
KTSMV 650 DD	5890577	6068946	110	LAA 620 R3 FS	6445387	6225850	421
KTSMV 650 FS	5889557	6068924	110	LAA 620 R3 FT	6445431	6225870	421
KTSMV 660 A2	5889632	6068970	110	LAA 630 R3 A2	6567409	6225884	421
KTSMV 660 A4	5889724	6068992	110	LAA 630 R3 A4	6567478	6225896	421
KTSMV 660 DD	5890584	6068948	110			/pc.	
KTSMV 660 FS	5889564	6068926	110	LAA 630 R3 FS	6445394	6225852	421
KTSMV 810 DD	5889847	6069024	178	LAA 630 R3 FT	6445448	6225872	421
KTSMV 810 FS	5889731	6069002	178	LAA 640 R3 A2	6567416	6225886	421
KTSMV 820 DD	5889861	6069028	178	LAA 640 R3 A4	6567485	6225898	421
KTSMV 820 FS	5889793	6069006	178			/pc.	
KTSMV 830 DD	5889908	6069030	178	LAA 640 R3 FS	6445400	6225854	421
KTSMV 830 FS	5889809	6069008	178	LAA 640 R3 FT	6445455	6225874	421
KTSMV 840 DD	5889915	6069032	178	LAA 650 R3 A2	6567423	6225888	421
KTSMV 840 FS	5889816	6069010	178	LAA 650 R3 A4	6567515	6225900	421
KTSMV 850 DD	5889922	6069034	178			/pc.	
KTSMV 850 FS	5889823	6069012	178	LAA 650 R3 FS	6445417	6225856	421
KTSMV 860 DD	5889960	6069036	178	LAA 650 R3 FT	6445462	6225876	421
KTSMV 860 FS	5889830	6069014	178	LAA 660 R3 A2	6567454	6225890	421
				LAA 660 R3 A4	6567522	6225902	421
KTW 100 1 FT	6409112	6006901	748			/pc.	
KTW 100 10 FT	6409211	6006910	757	LAA 660 R3 FS	6445424	6225858	421
KTW 100 2 FT	6409129	6006902	749	LAA 660 R3 FT	6445479	6225878	421
KTW 100 3 FT	6409136	6006903	750			/pc.	
KTW 100 4 FT	6409143	6006904	751	LAAD 1000 R3 FT	6536528	6226348	483
KTW 100 5 FT	6409150	6006905	752	LAAD 1200 R3 FT	6536559	6226352	483
KTW 100 6 FT	6409174	6006906	753	LAAD 200 R3 A2	6806195	6226361	483
KTW 100 7 FT	6409181	6006907	754	LAAD 200 R3 A4	6806249	6226381	483
KTW 100 8 FT	6409198	6006908	755			/pc.	
KTW 100 9 FT	6409204	6006909	756	LAAD 200 R3 FS	6536313	6226310	483
KTW 100 FT	6440948	6006890	747	LAAD 200 R3 FT	6536399	6226330	483
				LAAD 300 R3 A2	6806201	6226363	483
KU 3 A2	5706014	6348876	588	LAAD 300 R3 A4	6806256	6226383	483
KU 3 A4	5706021	6348877	588			/pc.	
KU 3 FT	6340217	6348874	587	LAAD 300 R3 FS	6536320	6226312	483
KU 3 V A2	5706038	6348884	588	LAAD 300 R3 FT	6536405	6226332	483
KU 3 V FS	5354826	6348881	588	LAAD 400 R3 A2	6806218	6226365	483
KU 3 V FT	5354833	6348883	588	LAAD 400 R3 A4	6806263	6226385	483
						/pc.	
KU 5 16 FS	6640331	6344380	596	LAAD 400 R3 FS	6536337	6226314	483
KU 5 V A2	5018360	6348925	596	LAAD 400 R3 FT	6536436	6226334	483
KU 5 V A4	5018452	6348927	596	LAAD 450 R3 FT	6536450	6226336	483
KU 5 V FT	6901456	6348920	596	LAAD 500 R3 A2	6806225	6226367	483
				LAAD 500 R3 A4	6806270	6226387	483
KU 7 AOX FT	6191598	6349218	605			/pc.	
KU 7 FT	6191413	6349102	604	LAAD 500 R3 FS	6536344	6226316	483
KU 7 NOX FT	6191352	6349056	604	LAAD 500 R3 FT	6536443	6226338	483
KU 7 VQP A2	6191536	6349196	604	LAAD 600 R3 A2	6806232	6226369	483
KU 7 VQP FT	6191475	6349153	604	LAAD 600 R3 A4	6806287	6226389	483
						/pc.	
KUS 5 FT	6168910	6348904	595	LAAD 600 R3 FS	6536375	6226318	483
KUS 5 FT SO	5731696	7193547	596	LAAD 600 R3 FT	6536467	6226340	483
KUS 5 NOK A2	6437832	6348947	596	LAAD 750 R3 FT	6536498	6226342	483
KUS 5 NOK FT	6437771	6348939	595	LAAD 800 R3 FT	6536504	6226344	483
KUS 7 A2	6191659	6349277	604	LAAD 900 R3 FT	6536511	6226346	483
KUS 7 A4	6403189	6349279	604				
		price/pair		LAB 20 A2	6261796	7164017	476
KWH 10 FT	6194537	6355048	676	LAB 20 FT	6163397	6220436	476
KWH 15 FT	6194599	6355056	676	LAB 30 A2	6261857	7164025	476
KWH 20 FT	6194650	6355064	676	LAB 30 FT	6163458	6220444	476
KWH 25 FT	6194711	6355072	676	LAB 40 A2	6261918	7164033	476
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LAB 60 FT	6163632	6220479	476	LBD 90 900 R3 FT	6534753	6226026	482
LABE 20 DD	6164110	6220622	476	LBI 90 620 VS A2	6259991	7160046	420
LABE 30 DD	6164172	6220630	476	LBI 90 630 VS A2	6260058	7160054	420
LABE 40 DD	6164233	6220649	476	LBI 90 640 VS A2	6260119	7160062	420
LABE 50 DD	6165971	6220657	476	LBI 90 650 VS A2	6260171	7160089	420
LAL 70 A2	6164479	6221017	478	LBI 90 660 VS A2	6260232	7160097	420
LAL 70 FS	6164417	6221009	478			price/m	
LALB 20 FT	6166152	6221858	476	LCIS 1120 6 FT	6431632	6209820	425
LALB 30 FT	6166213	6221866	476	LCIS 1130 6 FT	6431649	6209822	425
LALB 40 FT	6166275	6221874	476	LCIS 1140 6 FT	6431656	6209824	425
LALB 50 FT	6166336	6221882	476	LCIS 1145 6 FT	6540525	6209825	425
LALB 60 FT	6166398	6221890	476	LCIS 1150 6 FT	6431663	6209826	425
LAS 110 A2	6938117	6221432	433	LCIS 1160 6 FT	6431670	6209828	425
LAS 110 FS	6165254	6221416	432	LCIS 620 3 FS	6487578	6209610	402
LAS 110 FT	6165315	6221424	432	LCIS 620 3 FT	6431731	6209721	403
LAS 60 A2	6165193	6221386	418	LCIS 620 6 A2	6431687	6207252	406
LAS 60 FS	6165070	6221351	418	LCIS 620 6 A4	6431960	6207202	407
LAS 60 FT	6165131	6221378	418	LCIS 620 6 FS	6432035	6209630	404
LAW FT	6165438	6221513	476	LCIS 620 6 FT	6431786	6209643	405
LAW FT	6165438	6221513	478	LCIS 630 3 FS	6487585	6209612	402
LB 90 1120 R3 FS	6443871	6225122	434	LCIS 630 3 FT	6431748	6209723	403
LB 90 1120 R3 FT	6443932	6225142	434	LCIS 630 6 A2	6431694	6207254	406
LB 90 1130 R3 FS	6443895	6225124	434	LCIS 630 6 A4	6431977	6207204	407
LB 90 1130 R3 FT	6443949	6225144	434	LCIS 630 6 FS	6432042	6209632	404
LB 90 1140 R3 FS	6443901	6225126	434	LCIS 630 6 FT	6431793	6209645	405
LB 90 1140 R3 FT	6443956	6225146	434	LCIS 640 3 FS	6487592	6209614	402
LB 90 1145 R3 FT	6443963	6225148	434	LCIS 640 3 FT	6431755	6209725	403
LB 90 1150 R3 FS	6443918	6225128	434	LCIS 640 6 A2	6431700	6207256	406
LB 90 1150 R3 FT	6443970	6225150	434	LCIS 640 6 A4	6431984	6207206	407
LB 90 1160 R3 FS	6443925	6225130	434	LCIS 640 6 FS	6432059	6209634	404
LB 90 1160 R3 FT	6443987	6225152	434	LCIS 640 6 FT	6431809	6209647	405
LB 90 620 R3 A2	6443703	6225082	419	LCIS 650 3 FS	6487608	6209616	402
LB 90 620 R3 A4	6443758	6225102	419	LCIS 650 3 FT	6431762	6209727	403
LB 90 620 R3 FS	6443604	6225042	419	LCIS 650 6 A2	6431717	6207258	406
LB 90 620 R3 FT	6443659	6225062	419	LCIS 650 6 A4	6431991	6207208	407
LB 90 630 R3 A2	6443710	6225084	419	LCIS 650 6 FS	6432066	6209636	404
LB 90 630 R3 A4	6443765	6225104	419	LCIS 650 6 FT	6431823	6209649	405
LB 90 630 R3 FS	6443611	6225044	419	LCIS 660 3 FS	6487615	6209618	402
LB 90 630 R3 FT	6443666	6225064	419	LCIS 660 3 FT	6431779	6209729	403
LB 90 640 R3 A2	6443727	6225086	419	LCIS 660 6 A2	6431724	6207260	406
LB 90 640 R3 A4	6443772	6225106	419	LCIS 660 6 A4	6432004	6207210	407
LB 90 640 R3 FS	6443628	6225046	419	LCIS 660 6 FS	6432080	6209638	404
LB 90 640 R3 FT	6443673	6225066	419	LCIS 660 6 FT	6431847	6209651	405
LB 90 650 R3 A2	6443734	6225088	419	LDVG 110 FT	6464630	6216670	417
LB 90 650 R3 A4	6443789	6225108	419	LDVG 60 FT	6464623	6208970	416
LB 90 650 R3 FS	6443635	6225048	419	LEB 25 A2	6804214	6221207	479
LB 90 650 R3 FT	6443680	6225068	419			price/m	
LB 90 660 R3 A2	6443741	6225090	419	LEB 25 DD	6089116	6221216	479
LB 90 660 R3 A4	6443796	6225110	419	LEB 25 FS	6164714	6221203	479
LB 90 660 R3 FS	6443642	6225050	419	LEB 50 A2	6804290	6221250	479
LB 90 660 R3 FT	6443697	6225070	419			price/m	
LBD 90 1000 R3FT	6534760	6226028	482	LEB 50 DD	6089239	6221259	479
LBD 90 1200 R3FT	6534777	6226032	482	LEB 50 FS	6164837	6221246	479
LBD 90 200 R3 A2	6534784	6226050	482	LG 112 VS 3 FS	5064480	6216404	423
LBD 90 200 R3 A4	6534876	6226070	482	LG 112 VS 3 FT	5065210	6216423	424
LBD 90 200 R3 FS	6532780	6225990	482	LG 112 VS 6 FS	5065289	6216442	427
LBD 90 200 R3 FT	6534654	6226010	482	LG 112 VS 6 FT	5065371	6216465	428
LBD 90 300 R3 A2	6534814	6226052	482	LG 112 VS6 A2	6082964	6216492	429
LBD 90 300 R3 A4	6534883	6226072	482	LG 113 VS 3 FS	5064497	6216407	423
LBD 90 300 R3 FS	6532797	6225992	482	LG 113 VS 3 FT	5065227	6216426	424
LBD 90 300 R3 FT	6534661	6226012	482	LG 113 VS 6 FS	5065319	6216445	427
LBD 90 400 R3 A2	6534821	6226054	482	LG 113 VS 6 FT	5065388	6216468	428
LBD 90 400 R3 A4	6534890	6226074	482	LG 113 VS6 A2	6039425	6216493	429
LBD 90 400 R3 FS	6532803	6225994	482	LG 114 VS 3 FS	5064503	6216410	423
LBD 90 400 R3 FT	6534678	6226014	482	LG 114 VS 3 FT	5065258	6216429	424
LBD 90 450 R3 FT	6534685	6226016	482	LG 114 VS 6 FS	5065326	6216448	427
LBD 90 500 R3 A2	6534838	6226056	482	LG 114 VS 6 FT	5065395	6216471	428
LBD 90 500 R3 A4	6534906	6226076	482	LG 114 VS 6FT SO	6023912	7186395	430
LBD 90 500 R3 FS	6532810	6225996	482	LG 114 VS6 A2	6082971	6216495	429
LBD 90 500 R3 FT	6534692	6226018	482	LG 115 VS 3 FS	5064534	6216413	423
LBD 90 600 R3 A2	6534845	6226058	482	LG 115 VS 3 FT	5065265	6216432	424
LBD 90 600 R3 A4	6534937	6226078	482	LG 115 VS 6 FS	5065333	6216451	427
LBD 90 600 R3 FS	6532827	6225998	482	LG 115 VS 6 FT	5065401	6216474	428
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LG 116 VS 6 FS	5065340	6216454	427	LGBE 1160 FS	6445080	6225498	437
LG 116 VS 6 FT	5065432	6216477	428	LGBE 1160 FT	6445141	6225520	437
LG 116 VS6 A2	6039470	6216499	429	LGBE 620 A2	6567218	6225460	422
				LGBE 620 A4	6567287	6225480	422
LG 620 NS 3 FS	5063957	6208506	414	LGBE 620 FS	6444885	6225450	421
LG 620 VS 3 FS	5064022	6208538	408	LGBE 620 FT	6444960	6225470	421
LG 620 VS 3 FS	5064022	6208538	490	LGBE 630 A2	6567225	6225462	422
LG 620 VS 3 FT	5434153	6208562	410	LGBE 630 A4	6567300	6225482	422
LG 620 VS 3 FT	5434153	6208562	490	LGBE 630 FS	6444892	6225452	421
LG 620 VS 6 FS	5064251	6208627	409	LGBE 630 FT	6445004	6225472	421
LG 620 VS 6 FS	5064251	6208627	491	LGBE 640 A2	6567232	6225464	422
LG 620 VS 6 FT	5064329	6208650	411	LGBE 640 A4	6567348	6225484	422
LG 620 VS 6 FT	5064329	6208650	491	LGBE 640 FS	6444908	6225454	421
LG 620 VS6 A2	5064411	6208700	412	LGBE 640 FT	6445011	6225474	421
LG 620 VS6 A2	5064411	6208700	492	LGBE 650 A2	6567249	6225466	422
LG 620 VS6 A4	6159314	6101200	413	LGBE 650 A4	6567355	6225486	422
LG 620 VS6 A4	6159314	6101200	492	LGBE 650 FS	6444946	6225456	421
LG 630 NS 3 FS	5063964	6208509	414	LGBE 650 FT	6445028	6225476	421
LG 630 VS 3 FS	5064053	6208541	408	LGBE 660 A2	6567270	6225468	422
LG 630 VS 3 FS	5064053	6208541	490	LGBE 660 A4	6567362	6225488	422
LG 630 VS 3 FT	5434160	6208566	410	LGBE 660 FS	6444953	6225458	421
LG 630 VS 3 FT	5434160	6208566	490	LGBE 660 FT	6445035	6225478	421
LG 630 VS 6 FS	5064268	6208630	409	LGBED 1000 FT	6536221	6226248	484
LG 630 VS 6 FS	5064268	6208630	491	LGBED 1200 FT	6536252	6226252	484
LG 630 VS 6 FT	5064350	6208653	411	LGBED 200 FS	6536078	6226210	484
LG 630 VS 6 FT	5064350	6208653	491	LGBED 200 FT	6536122	6226230	484
LG 630 VS 6FT SO	6562756	7186363	415	LGBED 300 FS	6536085	6226212	484
LG 630 VS6 A2	5064428	6208703	412	LGBED 300 FT	6536269	6226232	484
LG 630 VS6 A2	5064428	6208703	492	LGBED 400 FS	6536092	6226214	484
LG 630 VS6 A4	6514038	6101208	413	LGBED 400 FT	6536139	6226234	484
LG 630 VS6 A4	6514038	6101208	492	LGBED 450 FT	6536146	6226236	484
LG 640 NS 3 FS	5063995	6208512	414	LGBED 500 FS	6536115	6226216	484
LG 640 VS 3 FS	5064060	6208544	408	LGBED 500 FT	6536153	6226238	484
LG 640 VS 3 FS	5064060	6208544	490	LGBED 600 FS	6536108	6226218	484
LG 640 VS 3 FT	5434207	6208570	410	LGBED 600 FT	6536160	6226240	484
LG 640 VS 3 FT	5434207	6208570	490	LGBED 750 FT	6536191	6226242	484
LG 640 VS 6 FS	5064299	6208633	409	LGBED 800 FT	6536207	6226244	484
LG 640 VS 6 FS	5064299	6208633	491	LGBED 900 FT	6536214	6226246	484
LG 640 VS 6 FT	5064367	6208656	411				
LG 640 VS 6 FT	5064367	6208656	491	LGBV 112 VS FS	6160150	6218822	436
LG 640 VS 6 FT SO	6543793	7188633	415	LGBV 112 VS FT	6160518	6218938	436
LG 640 VS6 A2	5064435	6208706	412	LGBV 113 VS FS	6160211	6218830	436
LG 640 VS6 A2	5064435	6208706	492	LGBV 113 VS FT	6160570	6218946	436
LG 640 VS6 A4	5022114	6101216	413	LGBV 114 VS FS	6160273	6218849	436
LG 640 VS6 A4	5022114	6101216	492	LGBV 114 VS FT	6160631	6218954	436
LG 650 NS 3 FS	5064008	6208515	414	LGBV 115 VS FS	6160334	6218857	436
LG 650 VS 3 FS	5064077	6208547	408	LGBV 115 VS FT	6160693	6218962	436
LG 650 VS 3 FS	5064077	6208547	490	LGBV 116 VS FS	6160396	6218865	436
LG 650 VS 3 FT	5434214	6208574	410	LGBV 116 VS FT	6160754	6218970	436
LG 650 VS 3 FT	5434214	6208574	490	LGBV 620 VS FS	6149476	6213227	422
LG 650 VS 6 FS	5064305	6208636	409	LGBV 620 VS FT	6149834	6213324	422
LG 650 VS 6 FS	5064305	6208636	491	LGBV 630 VS FS	6149537	6213235	422
LG 650 VS 6 FT	5064374	6208659	411	LGBV 630 VS FT	6149896	6213332	422
LG 650 VS 6 FT	5064374	6208659	491	LGBV 640 VS FS	6149599	6213243	422
LG 650 VS 6 FT SO	5020875	7188640	415	LGBV 640 VS FT	6149957	6213340	422
LG 650 VS6 A2	5064442	6208709	412	LGBV 650 VS FS	6149650	6213251	422
LG 650 VS6 A2	5064442	6208709	492	LGBV 650 VS FT	6150014	6213359	422
LG 650 VS6 A4	5022121	6101223	413	LGBV 660 VS FS	6149711	6213278	422
LG 650 VS6 A4	5022121	6101223	492	LGBV 660 VS FT	6150076	6213367	422
LG 660 NS 3 FS	5064015	6208518	414				
LG 660 VS 3 FS	5064084	6208550	408	LGVG 110 A2	6039531	6216648	432
LG 660 VS 3 FS	5064084	6208550	490	LGVG 110 FS	5065739	6216650	431
LG 660 VS 3 FT	5434221	6208578	410	LGVG 110 FT	5065746	6216653	431
LG 660 VS 3 FT	5434221	6208578	490	LGVG 110VS FT SO	5625148	7190590	432
LG 660 VS 6 FS	5064312	6208639	409	LGVG 60 A2	5065647	6208947	417
LG 660 VS 6 FS	5064312	6208639	491	LGVG 60 A2	5065647	6208947	498
LG 660 VS 6 FT	5064381	6208661	411	LGVG 60 A4	5046370	6208932	417
LG 660 VS 6 FT	5064381	6208661	491	LGVG 60 A4	5046370	6208932	498
LG 660 VS6 A2	5064473	6208712	412	LGVG 60 FS	5065623	6208941	417
LG 660 VS6 A2	5064473	6208712	492	LGVG 60 FS	5065623	6208941	498
LG 660 VS6 A4	6524952	6101232	413	LGVG 60 FT	5065630	6208944	417
LG 660 VS6 A4	6524952	6101232	492	LGVG 60 FT	5065630	6208944	498
		/pc.		LGVG 60 FT SO	5313120	7189251	417
LGBE 1120 FS	6445042	6225490	437	LKS 40 A2	6295630	6017134	474
LGBE 1120 FT	6445097	6225510	437	LKS 40 FS	6164530	6221076	473
LGBE 1130 FS	6445059	6225492	437	LKS 40 FT	6164592	6221084	473
LGBE 1130 FT	6445103	6225512	437	LKS 40 FT SO	6544271	7189192	475
LGBE 1140 FS	6445066	6225494	437	LKS 40 FTK LGR	5238775	6479790	474
LGBE 1140 FT	6445110	6225514	437	LKS 60 4 A2	6015252	6221130	474
LGBE 1145 FT	6445127	6225516	437	LKS 60 4 A4	6524839	6221157	474



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LKS 60 4 FTK LGR	5239024	6479435	475	LTD 600 R3 A4	6536047	6226188	483
LKS 60 5 FT	6175512	6232485	474	LTD 600 R3 FS	6535484	6226108	482
LMFV 1120 FS	6443345	6225750	432	LTD 600 R3 FT	6535743	6226130	482
LMFV 1120 FT	6443390	6225770	432	LTD 750 R3 FT	6535750	6226132	482
LMFV 1130 FS	6443352	6225752	432	LTD 800 R3 FT	6535767	6226134	482
LMFV 1130 FT	6443406	6225772	432	LTD 900 R3 FT	6535774	6226136	482
LMFV 1140 FS	6443369	6225754	432	LTG 100 A2	5652700	6003830	527
LMFV 1140 FT	6443413	6225774	432	LTK-K 10 G	6057559	6050360	522
LMFV 1145 FT	6443420	6225776	432	LTK-K 25 G	6936137	6050370	522
LMFV 1150 FS	6443376	6225756	432	LTR 3000 FS	6943876	6055810	524
LMFV 1150 FT	6443437	6225778	432	LTR 3000 FSK RW	5163329	6055820	525
LMFV 1160 FS	6443383	6225758	432	LTR 3000 FT	5671282	6055817	526
LMFV 1160 FT	6443444	6225780	432	LTR 6000 FS	6943937	6055812	524
LMFV 620 FS	6443246	6225710	418	LTR 6000 FSK RW	6557790	6055821	525
LMFV 620 FT	6443291	6225730	418	LTS 100 FS	5247135	6075024	517
LMFV 630 FS	6443253	6225712	418	LTS 50 FS	6935956	6075000	515
LMFV 630 FT	6443307	6225732	418	LTS 50 FT	6936014	6075005	516
LMFV 640 FS	6443260	6225714	418	LTS B DD	5453451	6074901	520
LMFV 640 FT	6443314	6225734	418	LTS DFB DD	5453482	6074952	768
LMFV 650 FS	6443277	6225716	418	LTS K DD	5453475	6074921	520
LMFV 650 FT	6443321	6225736	418	LTS T DD	5453468	6074912	520
LMFV 660 FS	6443284	6225718	418	LVG 110 A2	5623885	6216550	431
LMFV 660 FT	6443338	6225738	418	LVG 110 FS	5065678	6216545	431
LT 1120 R3 FS	6444298	6225290	435	LVG 110 FT	5065685	6216548	431
LT 1120 R3 FT	6444403	6225310	435	LVG 110 FT SO	5652267	7189256	199
LT 1130 R3 FS	6444304	6225292	435	LVG 60 A2	5065579	6208846	416
LT 1130 R3 FT	6444410	6225312	435	LVG 60 A2	5065579	6208846	497
LT 1140 R3 FS	6444342	6225294	435	LVG 60 A4	6666799	6208835	416
LT 1140 R3 FT	6444427	6225314	435	LVG 60 A4	6666799	6208835	497
LT 1145 R3 FT	6444465	6225316	435	LVG 60 FS	5065555	6208840	416
LT 1150 R3 FS	6444359	6225296	435	LVG 60 FS	5065555	6208840	497
LT 1150 R3 FT	6444472	6225318	435	LVG 60 FT	5065562	6208843	416
LT 1160 R3 FS	6444366	6225298	435	LVG 60 FT	5065562	6208843	497
LT 1160 R3 FT	6444489	6225320	435	LVG 60 FT SO	5313137	7189253	416
LT 620 R3 A2	6444199	6225250	420	LWVG 110 A2	5065708	6216590	431
LT 620 R3 A4	6444243	6225270	420	LWVG 110 FS	5065692	6216587	431
LT 620 R3 FS	6444090	6225210	420	LWVG 60 A2	5065616	6208898	417
LT 620 R3 FT	6444144	6225230	420	LWVG 60 A2	5065616	6208898	497
LT 620 VS A2	6261079	7162022	420	LWVG 60 A4	5022084	6208891	417
LT 630 R3 A2	6444205	6225252	420	LWVG 60 A4	5022084	6208891	497
LT 630 R3 A4	6444250	6225272	420	LWVG 60 FS	5065586	6208895	417
LT 630 R3 FS	6444106	6225212	420	LWVG 60 FS	5065586	6208895	497
LT 630 R3 FT	6444151	6225232	420	LWVM 200 FT	6947836	6083200	238
LT 630 VS A2	6261130	7162049	420	MAH 050 FS	6765553	6358500	654
LT 640 R3 A2	6444212	6225254	420	MAH 075 FS	6874699	6358510	654
LT 640 R3 A4	6444267	6225274	420	MAH 100 FS	6765676	6358527	654
LT 640 R3 FS	6444113	6225214	420	MAH 150 FS	6765737	6358535	654
LT 640 R3 FT	6444168	6225234	420	MAH 200 FS	6765799	6358543	654
LT 640 VS A2	6261192	7162057	420	MAH 35 100 FS	5364061	6358690	653
LT 650 R3 A2	6444229	6225256	420	MAH 35 200 FS	5364078	6358692	653
LT 650 R3 A4	6444274	6225276	420	MAH 35 300 FS	5364085	6358694	653
LT 650 R3 FS	6444120	6225216	420	MAH 60 100 FS	6939374	6358705	654
LT 650 R3 FT	6444175	6225236	420	MAH 60 100 FT	6947171	6358752	654
LT 650 VS A2	6261253	7162073	420	MAH 60 150 FS	6939435	6358709	654
LT 660 R3 A2	6444236	6225258	420	MAH 60 150 FT	6947232	6358756	654
LT 660 R3 A4	6444281	6225278	420	MAH 60 200 FS	6939497	6358713	654
LT 660 R3 FS	6444137	6225218	420	MAH 60 200 FT	6947294	6358760	654
LT 660 R3 FT	6444182	6225238	420	MAH 60 300 FS	6939558	6358717	654
LT 660 VS A2	6261314	7162081	420	MAH 60 300 FT	6947355	6358764	654
LTD 1000 R3 FT	6535781	6226138	482	MAH 60 400 FS	6134823	6358720	654
LTD 1200 R3 FT	6535798	6226142	482	MAH LTR FS	5268611	6358810	526
LTD 200 R3 A2	6535910	6226160	483	MAH LTR FT	5671299	6358812	526
LTD 200 R3 A4	6535989	6226180	483	MAHL 200 FT	6881239	6358659	527
LTD 200 R3 FS	6535422	6226100	482	MAHL 300 FT	6881291	6358667	527
LTD 200 R3 FT	6535675	6226120	482	MAHL 400 FT	6884292	6358675	527
LTD 300 R3 A2	6535927	6226162	483	MAHL 500 FT	6881352	6358683	527
LTD 300 R3 A4	6536016	6226182	483	MAHL 600 FT	5009702	6358687	527
LTD 300 R3 FS	6535439	6226102	482	MAHU 200 FS	5435761	6358853	655
LTD 300 R3 FT	6535682	6226122	482	MAHU 200 FT	5435839	6358884	655
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MASD 90 FT	6471195	6356915	760	MKS 120 FS	6061877	6060196	218
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MKR 15 075 A2	5706670	6045832	64	MKS 315 FT	6386352	6053165	82
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MKR 15 075 FS	6288465	6046372	63	MKS 330 FT	6059416	6053300	82
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MKR 15 100 A4	5706762	6045854	64	MKS 610 FT	6060016	6055532	137
MKR 15 100 ALU	6382095	6045723	65	MKS 610 FT SO	6017539	7190099	138
MKR 15 100 FS	6562091	6045979	62	MKS 615 FS	6387731	6055141	136
MKR 15 100 FS	6288472	6046374	63	MKS 615 FT	6387915	6055559	137
MKR 15 100 FT	6053773	6045103	63	MKS 615 FT SO	5763413	7190101	138
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MKR 15 125 ALU	6382156	6045731	65	MKS 620 FT	6060078	6055575	137
MKR 15 125 FS	6517305	6046375	63	MKS 620 FT SO	6017713	7190103	138
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MKR 15 150 FT	6053896	6045154	63	MKS 640 FT	6388035	6055664	137
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MKR 15 200 ALU	6382279	6045766	65	MKS 650 FT	6388097	6055699	137
MKR 15 200 FS	6562275	6046002	62	MKS 660 FS	6059959	6055524	136
MKR 15 200 FS	6467365	6046004	63	MKS 660 FT	6388219	6055710	137
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MKR 15 250 ALU	6382330	6045774	65	MKS 830 FS	6060856	6057306	184
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MKR 15 300 FT	6054077	6045308	63	MKSM 115 FS	5830924	6059158	200
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MKR EV FT	6223756	7060041	66	MKSM 120 FS	5830931	6059160	200
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MKR SV A2	6517329	6066244	65	MKSM 130 A2	5831181	6059196	202
MKR SV A4	6517336	6066246	65	MKSM 130 FS	5830948	6059162	200
MKR SV ALU	6517343	6066248	66	MKSM 130 FT	5831068	6059179	201
MKR SV FS	5706847	6066242	65	MKSM 140 A2	5831228	6059198	202
MKR SV FT	6064939	6066240	66	MKSM 140 FS	5830986	6059164	200
MKRB 90 15 050FS	5703983	7061146	67	MKSM 140 FT	5831105	6059181	201
MKRB 90 15 050FT	6223879	7061145	67	MKSM 150 A2	5831235	6059200	202
MKRB 90 15 075FS	5706854	7061050	67	MKSM 150 FS	5830993	6059166	200
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MKRB 90 15 100FS	5706861	7061244	67	MKSM 160 A2	5831242	6059202	202
MKRB 90 15 100FT	6223930	7061242	67	MKSM 160 FS	5831006	6059168	200
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MKRB 90 15 125FT	5807261	7061250	67	MKSM 610 FS	5829553	6059000	98
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MKSM 810 FT	5830412	6059097	171	MP FL DD	5163268	7085108	241
MKSM 820 FS	5830368	6059084	170	MP FL FS	6146772	7084757	241
MKSM 820 FT	5830436	6059101	171	MP FS	6296293	7084919	240
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MKSM 830 FT	5830443	6059103	171	MP UNI A2	5166320	7085133	241
MKSM 840 FS	5830382	6059088	170	MP UNI DD	5163312	7085114	241
MKSM 840 FT	5830450	6059105	171	MP UNI FS	6146895	7084773	241
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MKSM 850 FT	5830467	6059107	171	MP WI GR. DD	5286790	7085112	241
MKSM 860 FS	5830405	6059092	170	MP WI GR. FS	6146956	7084781	241
MKSM 860 FT	5830474	6059109	171	MP WI KL. DD	5163305	7085111	241
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MKSMU 150 FT	5832201	6059409	207	MS 22 L 400 FT	5499879	/100 pc. 1122711	705
MKSMU 160 A2	5832355	6059428	206	MS 22 L 500 FT	5500117	1122715	705
MKSMU 160 FS	5832119	6059394	205	MS 22 L 600 FT	5500179	1122719	705
MKSMU 160 FT	5832232	6059411	207				
MKSMU 610 A2	5831488	6059265	135	MS 22 L 6M FT	5502579	price/100 1122746	705
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MKSMU 615 FT	5831426	6059250	105				
MKSMU 620 FS	5831365	6059234	104	MS4022 SK	5785316	1124555	730
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MKSMU 630 FS	5831372	6059237	104	MS4022P0192FT	6355518	/pc. 6007201	504
MKSMU 630 FT	5831440	6059254	105	MS4022P0292FT	6005895	6007228	504
MKSMU 640 FS	5831389	6059239	104	MS4022P0392FT	6005956	6007236	504
MKSMU 640 FT	5831457	6059256	105	MS4022P0492FT	6006014	6007244	504
MKSMU 650 FS	5831396	6059241	104	MS4022P0592FT	6006076	6007252	504
MKSMU 650 FT	5831464	6059258	105	MS4022P0692FT	6006137	6007260	504
MKSMU 660 FS	5831402	6059243	104	MS4022P0792FT	6006199	6007279	504
MKSMU 660 FT	5831471	6059260	105	MS4022P0892FT	6006250	6007287	504
MKSMU 810 FS	5831624	6059308	172	MS4022P0992FT	6006311	6007295	504
MKSMU 810 FT	5831693	6059325	173	MS4022P1092FT	6006373	6007309	504
MKSMU 820 FS	5831648	6059312	172	MS4022P1192FT	6006434	6007317	504
MKSMU 820 FT	5831716	6059329	173				
MKSMU 830 FS	5831655	6059314	172	MS4022P2000A2	5050179	price/100 1121960	704
MKSMU 830 FT	5831723	6059331	173	MS4022P2000A4	5905585	1121963	705
MKSMU 840 FS	5831662	6059316	172	MS4022P2000FT	5050230	1121979	704
MKSMU 840 FT	5831730	6059333	173	MS4022P6000A2	5049999	1121901	704
MKSMU 850 FS	5831679	6059318	172	MS4022P6000A4	5907022	1121903	705
MKSMU 850 FT	5831747	6059335	173	MS4022P6000FT	5049937	1121898	704
MKSMU 860 FS	5831686	6059320	172				
MKSMU 860 FT	5831754	6059337	173	MS40HB M10x30 A4	6489572	/100 pc. 1148160	720
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MKSU 610 FS	6063611	6063160	140	MS40HB M10x60 A4	6489589	1148164	720
MKSU 610 FT	6396795	6064302	141	MS40HB M10x60 ZL	6489510	1148122	719
MKSU 615 FS	6394630	6063179	140	MS40HB M12x30 A4	6489596	1148168	720
MKSU 615 FT	6026760	6064319	141	MS40HB M12x30 ZL	6489527	1148126	719
MKSU 620 FS	6063673	6063187	140	MS40HB M12x60 A4	6489602	1148170	720
MKSU 620 FT	6396856	6064345	141	MS40HB M12x60 ZL	6489534	1148130	719
MKSU 630 FS	6063734	6063209	140	MS40HB M6x30 A4	6489541	1148146	720
MKSU 630 FT	6396979	6064396	141	MS40HB M6x30 ZL	6489473	1148106	719
MKSU 640 FS	6063796	6063225	140	MS40HB M8x30 A4	6489558	1148150	720
MKSU 640 FT	6397099	6064426	141	MS40HB M8x30 ZL	6489480	1148110	719
MKSU 810 FS	5805984	6063312	189	MS40HB M8x60 A4	6489565	1148154	720
MKSU 810 FT	5806059	6064556	188	MS40HB M8x60 ZL	6489497	1148114	719
MKSU 820 FS	5756217	6063314	187	MS40SN M10 A4	6489459	1147134	717
MKSU 820 FT	5806066	6064559	188	MS40SN M10 ZL	6489411	1147114	717
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MS40SN M6 A4	6489435	1147126	717	MS41HB M10x30 A4	6490356	1148422	721
MS40SN M6 ZL	6489398	1147106	717	MS41HB M10x30 ZL	6490110	1148322	720
MS40SN M8 A4	6489442	1147130	717	MS41HB M10x60 A4	6490363	1148426	721
MS40SN M8 ZL	6489404	1147110	717	MS41HB M10x60 ZL	6490127	1148326	720
MS4121 EK	6255726	1122904	731	MS41HB M12x100A4	6490431	1148442	721
MS4121 SK	5686217	1122902	730	MS41HB M12x100ZL	6490189	1148342	720
MS4121P0200FS	6471119	1122950	709	MS41HB M12x30 A4	6490387	1148434	721
MS4121P0200FT	5697626	1122933	709	MS41HB M12x30 ZL	6490141	1148334	720
MS4121P0300FS	6471126	1122951	709	MS41HB M12x60 A4	6490424	1148438	721
MS4121P0300FT	5697664	1122934	709	MS41HB M12x60 ZL	6490172	1148338	720
MS4121P0400FS	6471157	1122953	709	MS41HB M6x30 A4	6490295	1148406	721
MS4121P0400FT	5697671	1122935	709	MS41HB M6x30 ZL	6490059	1148306	720
MS4121P0500A2	6427239	1122930	710	MS41HB M8x100 A4	6490325	1148418	721
MS4121P0500FS	6471164	1122955	709	MS41HB M8x100 ZL	6490080	1148318	720
MS4121P0500FT	5697688	1122936	709	MS41HB M8x20 ZL	7258207	1148350	722
MS4121P0600FS	6471171	1122956	709	MS41HB M8x30 A4	6490301	1148410	721
MS4121P0600FT	5697725	1122937	709	MS41HB M8x30 ZL	6490066	1148310	720
MS4121P0700FS	6471188	1122958	709	MS41HB M8x60 A4	6490318	1148414	721
MS4121P0700FT	5697732	1122938	709	MS41HB M8x60 ZL	6490073	1148314	720
MS4121P0800FS	5848042	1122957	709	MS41HBF M10x30A4	6490493	1148484	721
MS4121P0800FT	5697749	1122939	709	MS41HBF M10x30FT	6490233	1148384	721
MS4121P0900FS	6471218	1122959	709	MS41HBF M10x60A4	6490509	1148488	721
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MS4121P2000A4	5907114	1122476	709	MS41HBF M12x30FT	6490257	1148392	721
MS4121P2000FS	5686262	1122918	708	MS41HBF M12x60A4	6490554	1148496	721
MS4121P2000FT	5697541	1122923	708	MS41HBF M12x60FT	6490264	1148396	721
MS4121P3000A2	5697558	1122928	709	MS41HBF M8x30 A4	6490448	1148476	721
MS4121P3000A4	5697602	1122931	709	MS41HBF M8x30 FT	6490196	1148376	721
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MS4121P3000FT	5686293	1122924	708	MS41HBF M8x60 FT	6490202	1148380	721
MS4121P6000A2	5697565	1122929	709	MS41SN M10 A4	6489916	1147234	718
MS4121P6000A4	5697619	1122932	709	MS41SN M10 ZL	6489879	1147214	717
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MS4141P0500FT	5486794	1122533	715	MS41SNF M12 F	6489961	1147318	718
MS4141P0600A4	5907169	1123039	715	MS41SNF M6 A4	6489992	1147336	718
MS4141P0600FT	5486916	1122541	715	MS41SNF M6 F	6489930	1147306	718
MS4141P0700FT	5487036	1122568	715	MS41SNF M8 A4	6490004	1147340	718
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MS4141P6000FS	5686231	1122912	711	MS5030P0600FT	5672494	1121294	707
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MS50HB M10x60 ZL	6489732	1148222	720	MWAG 12 11 FS	6324736	6424600	551
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MS50HB M12x60 ZL	6489756	1148230	720	MWAG 12 21 FS	6325030	6424608	551
MS50HB M6x30 A4	6489763	1148256	720	MWAG 12 31 A2	7253851	6424404	552
MS50HB M6x30 ZL	6489695	1148206	720	MWAG 12 31 A4	7254018	6424414	552
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MS50HB M8x30 ZL	6489701	1148210	720	MWAG 12 31 FS	6325337	6424616	551
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MS50SN M6 ZL	6489619	1147156	718	MWAM 12 31 FS	5438540	6424554	550
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MSL4141P0400FS	6471270	1123266	713	RAA 110 FT	6813490	7123116	234
MSL4141P0500FS	6471287	1123268	713	RAA 120 FS	6819850	7002653	234
MSL4141P0600FS	6471294	1123270	713	RAA 120 FT	6813551	7123213	234
MSL4141P0700FS	6471300	1123272	713	RAA 130 FS	6819911	7002688	234
MSL4141P0800FS	6471317	1123274	713	RAA 130 FT	6813674	7123310	234
MSL4141P0900FS	6471324	1123276	713	RAA 140 FS	6213610	7002696	234
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MSL4141P3000FT	5698098	1122964	711			/pc.	
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MSL4141P6000FS	5698166	1122974	711	RAA 315 FT	5815754	7120140	85
MSL4141P6000FT	5698104	1122966	711	RAA 320 FS	6449835	6040349	85
MSL4141PP1000A2	5698333	1123014	712	RAA 320 FT	6813018	7120214	85
MSL4141PP1000A4	5698395	1123021	712	RAA 330 FS	6453672	6040357	85
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MW 90 SL23 FT	6013876	6017355	387	RAA 630 A4	5866701	7136143	165
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SGR 55 100 FT	6397655	6000122	337	SKS 640 A4	6050284	6056759	144
SGR 55 100 G	6397778	6005470	338	SKS 640 FS	6060375	6056407	142
SGR 55 150 A2	6622115	6000913	339	SKS 640 FT	6060559	6056695	143
SGR 55 150 FT	6397662	6000190	337	SKS 650 A2	6120796	6056744	145
SGR 55 150 G	6397785	6005472	338	SKS 650 A4	6050406	6056761	144
SGR 55 200 A2	6622139	6000917	339	SKS 650 FS	6060436	6056504	142
SGR 55 200 FT	5651758	6000209	337	SKS 650 FT	6060610	6056717	143
SGR 55 200 G	6397792	6005474	338	SKS 660 A2	6120857	6056746	145
SGR 55 300 A2	6622146	6000925	339	SKS 660 A4	6050529	6056763	144
SGR 55 300 FT	6397679	6000331	337	SKS 660 FS	6060498	6056601	142
SGR 55 300 G	6397808	6005476	338	SKS 660 FT	6060672	6056733	143
SGR 55 400 A2	6448388	6000933	339	SKS 810 FS	6061099	6058108	185
SGR 55 400 FT	6397686	6000451	337	SKS 810 FT	6061457	6058620	186
SGR 55 400 G	6397846	6005478	338	SKS 820 FS	6061150	6058205	185
SGR 55 500 A2	6622153	6000941	339	SKS 820 FT	6061518	6058647	186
SGR 55 500 FT	6397693	6000515	337	SKS 830 FS	6061211	6058302	185
SGR 55 500 G	6397860	6005480	338	SKS 830 FT	6061570	6058663	186
SGR 55 600 A2	6448418	6000958	339	SKS 840 FS	6061273	6058396	185
SGR 55 600 FT	6397709	6000775	337	SKS 840 FT	6061631	6058698	186
SGR 55 600 G	6397853	6005482	338	SKS 850 FS	6061334	6058507	185
		/100 pc.		SKS 850 FT	6061693	6058728	186
SGR KS OR	5872900	6003758	384	SKS 860 FS	6061396	6058604	185
		/pc.		SKS 860 FT	6061754	6058744	186
SH KAB 20 FS	6649990	6015425	387	SKSM 110 FS	5829560	6059614	203
SH KAB 25 FS	6650057	6015433	387	SKSM 110 FT	5829638	6059631	204
				SKSM 115 FS	5829577	6059616	203
SH M10 A4	6952038	6015340	389	SKSM 115 FT	5829645	6059633	204
SH M10 FS	6608539	6015336	389	SKSM 120 FS	5829584	6059618	203
SH M10 FT	6951970	6015338	389	SKSM 120 FT	5829652	6059635	204
				SKSM 130 FS	5829591	6059620	203
SHU M12 A4	5851882	6015328	390	SKSM 130 FT	5829669	6059637	204
SHU M12 DD	5851868	6015324	390	SKSM 140 FS	5829607	6059622	203
SHU M12 FS	5851844	6015322	390	SKSM 140 FT	5829676	6059639	204
		price/pair		SKSM 150 FS	5829614	6059624	203
SKH 110 OR	5668015	6222553	478	SKSM 150 FT	5829683	6059641	204
SKH 60 OR	5668008	6222537	416	SKSM 160 FS	5829621	6059626	203
SKH 60 OR	5668008	6222537	477	SKSM 160 FT	5829690	6059643	204
SKH 60 OR	5668008	6222537	497	SKSM 610 A2	5832720	6059490	102
				SKSM 610 A4	5832843	6059507	103
SKHW 110 OR	5668022	6310398	293	SKSM 610 FS	5832485	6059456	100
SKHW 110 OR	5668022	6310398	478	SKSM 610 FT	5832607	6059473	101
		/100 pc.		SKSM 615 FS	5832492	6059458	100
SKS 10x110 G	6348794	6418244	522	SKSM 615 FT	5832614	6059475	101
		price/m		SKSM 620 A2	5832744	6059494	102
SKS 110 FS	6062171	6061109	220	SKSM 620 A4	5832867	6059511	103
SKS 110 FT	6062539	6061605	221	SKSM 620 FS	5832508	6059460	100
SKS 110 FT SO	6055630	7196008	227	SKSM 620 FT	5832621	6059477	101
SKS 120 FS	6062232	6061206	220	SKSM 630 A2	5832782	6059496	102
SKS 120 FT	6062591	6061621	221	SKSM 630 A4	5832904	6059513	103
SKS 120 FT SO	5384724	7196011	227	SKSM 630 FS	5832546	6059462	100
SKS 130 FS	6062294	6061303	220	SKSM 630 FT	5832669	6059479	101
SKS 130 FT	6062652	6061656	221	SKSM 640 A2	5832799	6059498	102
SKS 130 FT SO	5872504	7196025	223	SKSM 640 A4	5832911	6059515	103
SKS 140 FS	6062355	6061400	220	SKSM 640 FS	5832553	6059464	100
SKS 140 FT	6062713	6061672	221	SKSM 640 FT	5832676	6059481	101
SKS 140 FT SO	6055692	7196016	227	SKSM 650 A2	5832805	6059500	102
SKS 150 FS	6062416	6061508	220	SKSM 650 A4	5832928	6059517	103
SKS 150 FT	6062775	6061702	221	SKSM 650 FS	5832560	6059466	100
SKS 150 FT SO	5872665	7196019	227	SKSM 650 FT	5832683	6059483	101
SKS 155 FS	6062478	6061559	220	SKSM 660 A2	5832836	6059502	102
SKS 155 FT	6062836	6061729	221	SKSM 660 A4	5832959	6059519	103
SKS 160 FT	5778684	6061733	222	SKSM 660 FS	5832591	6059468	100
SKS 160 FT SO	5893998	7196026	227	SKSM 660 FT	5832713	6059485	101
SKS 605 FT	6820740	6056634	146	SKSM 810 FS	5832966	6059530	174
		price/m		SKSM 810 FT	5833086	6059549	175
SKS 610 A2	6120550	6056735	145	SKSM 820 FS	5832980	6059534	174
SKS 610 A4	6050048	6056750	144	SKSM 820 FT	5833109	6059553	175
SKS 610 FS	6060191	6056105	142	SKSM 830 FS	5833024	6059536	174
SKS 610 FT	6389957	6056636	143	SKSM 830 FT	5833147	6059555	175
SKS 615 FS	6389711	6056156	142	SKSM 840 FS	5833031	6059538	174
SKS 615 FT	6390014	6056644	143	SKSM 840 FT	5833154	6059557	175
SKS 620 A2	6120611	6056737	145	SKSM 850 FS	5833048	6059540	174
SKS 620 A4	6044887	6056755	144	SKSM 850 FT	5833161	6059559	175
SKS 620 FS	6060252	6056202	142	SKSM 860 FS	5833079	6059542	174
SKS 620 FT	6390076	6056652	143	SKSM 860 FT	5833192	6059561	175
SKS 630 A2	6120673	6056739	145	SKSMU 110 FS	5833925	6059836	208
SKS 630 A4	6050161	6056757	144	SKSMU 110 FT	5834045	6059853	209
				SKSMU 115 FS	5833932	6059838	208
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SKSMU 130 FS	5833987	6059842	208	SL 42 150 SG	6506651	7097042	438
SKSMU 130 FT	5834106	6059859	209	SL 42 200 A2	5706977	7097086	442
SKSMU 140 FS	5833994	6059844	208	SL 42 200 A4	6509829	7099708	444
SKSMU 140 FT	5834113	6059861	209	SL 42 200 ALU	6509928	7099728	446
SKSMU 150 FS	5834007	6059846	208	SL 42 200 FT	6507078	7097158	440
SKSMU 150 FT	5834120	6059863	209	SL 42 200 SG	6506712	7097050	438
SKSMU 160 FS	5834038	6059848	208	SL 42 250 A2	5706984	7097088	442
SKSMU 160 FT	5834151	6059865	209	SL 42 250 A4	6509850	7099710	444
SKSMU 610 A2	5830689	6059722	108	SL 42 250 ALU	6509935	7099730	446
SKSMU 610 FS	5829843	6059688	106	SL 42 250 FT	6507139	7097166	440
SKSMU 610 FT	5829911	6059705	107	SL 42 250 SG	6506774	7097069	438
SKSMU 615 FS	5829850	6059690	106	SL 42 300 A2	5707011	7097090	442
SKSMU 615 FT	5829928	6059707	107	SL 42 300 A4	6509867	7099712	444
SKSMU 620 A2	5830702	6059726	108	SL 42 300 ALU	6509942	7099732	446
SKSMU 620 FS	5829867	6059692	106	SL 42 300 FT	6979646	7097174	440
SKSMU 620 FT	5830634	6059709	107	SL 42 300 SG	6506835	7097077	438
SKSMU 630 A2	5830740	6059728	108				
SKSMU 630 FS	5829874	6059694	106	SL 62 100 A2	5707028	7097094	452
SKSMU 630 FT	5830641	6059711	107	SL 62 100 A4	5707080	7097358	454
SKSMU 640 A2	5830757	6059730	108	SL 62 100 ALU	6509973	7099752	456
SKSMU 640 FS	5829881	6059696	106	SL 62 100 FT	6980246	7097409	450
SKSMU 640 FT	5830658	6059713	107	SL 62 100 SG	6506477	7097212	448
SKSMU 650 A2	5830764	6059732	108	SL 62 150 FT	6980307	7097417	450
SKSMU 650 FS	5829898	6059698	106	SL 62 200 A2	5707035	7097096	452
SKSMU 650 FT	5830665	6059715	107	SL 62 200 A4	5707097	7097360	454
SKSMU 660 A2	5830795	6059734	108	SL 62 200 ALU	6509980	7099754	456
SKSMU 660 FS	5829904	6059700	106	SL 62 200 FT	6980369	7097425	450
SKSMU 660 FT	5830672	6059717	107	SL 62 200 SG	6979769	7097239	448
SKSMU 810 FS	5833444	6059762	176	SL 62 300 A2	5707042	7097098	452
SKSMU 810 FT	5833567	6059779	177	SL 62 300 A4	5707103	7097362	454
SKSMU 820 FS	5833468	6059766	176	SL 62 300 ALU	6509997	7099756	456
SKSMU 820 FT	5833581	6059783	177	SL 62 300 FT	6980420	7097433	450
SKSMU 830 FS	5833505	6059768	176	SL 62 300 SG	6979820	7097247	448
SKSMU 830 FT	5833628	6059785	177	SL 62 400 A2	5707059	7097100	452
SKSMU 840 FS	5833512	6059770	176	SL 62 400 A4	5707110	7097364	454
SKSMU 840 FT	5833635	6059787	177	SL 62 400 ALU	6510009	7099758	456
SKSMU 850 FS	5833529	6059772	176	SL 62 400 FT	6980482	7097441	450
SKSMU 850 FT	5833642	6059789	177	SL 62 400 SG	6979882	7097255	448
SKSMU 860 FS	5833550	6059774	176	SL 62 500 A2	5707066	7097102	452
SKSMU 860 FT	5833673	6059791	177	SL 62 500 A4	5707127	7097366	454
				SL 62 500 ALU	6510030	7099760	456
SKSU 110 FS	6395231	6063403	224	SL 62 500 FT	6508099	7097468	450
SKSU 110 FT	6397754	6064795	225	SL 62 500 SG	6979943	7097263	448
SKSU 120 FS	6395293	6063438	224	SL 62 600 A2	5707073	7097104	452
SKSU 120 FT	6397877	6064833	225	SL 62 600 A4	5707134	7097368	454
SKSU 120 FT SO	5738275	7196012	226	SL 62 600 ALU	6510047	7099762	456
SKSU 130 FS	6395354	6063454	224	SL 62 600 FT	6508150	7097476	450
SKSU 130 FT	6397990	6064884	225	SL 62 600 SG	6980000	7097271	448
SKSU 130 FT SO	5652403	7196013	228				
SKSU 140 FS	6395415	6063470	224	SLAA 11100 R3 FT	6445721	6225968	436
SKSU 140 FT	5069690	6064922	225	SLAA 11120 R3 FT	6445738	6225970	436
SKSU 140 FT SO	5851202	7196014	228	SLAA 1120 R3 FT	6445615	6225950	436
SKSU 150 FS	6395477	6063497	224	SLAA 1130 R3 FT	6445622	6225952	436
SKSU 150 FT	6398232	6064965	225	SLAA 1130 R3 FT	6445639	6225954	436
SKSU 155 FS	5038702	6063500	224	SLAA 1140 R3 FT	6445639	6225954	436
SKSU 155 FT	6102433	6064973	225	SLAA 1145 R3 FT	6445646	6225956	436
SKSU 610 FS	5060369	6063234	150	SLAA 1150 R3 FT	6445653	6225958	436
SKSU 610 FT	5069836	6064307	151	SLAA 1160 R3 FT	6445660	6225960	436
SKSU 620 FS	5060390	6063236	150	SLAA 1175 R3 FT	6445677	6225962	436
SKSU 620 FT	6050888	6064353	151	SLAA 1180 R3 FT	6445684	6225964	436
SKSU 630 FS	5060406	6063238	150	SLAA 1190 R3 FT	6445714	6225966	436
SKSU 630 FT	5069843	6064409	151				
SKSU 640 FS	5060413	6063950	150	SLB 90 1120R3 FT	6443994	6225172	434
SKSU 640 FT	5069874	6064435	151	SLB 90 1130R3 FT	6444007	6225174	434
SKSU 650 FS	6063857	6063241	150	SLB 90 1140R3 FT	6444014	6225176	434
SKSU 650 FT	6308958	6064515	151	SLB 90 1145R3 FT	6444021	6225178	434
SKSU 660 FS	6063918	6063276	150	SLB 90 1150R3 FT	6444038	6225180	434
SKSU 660 FT	6397273	6064523	151	SLB 90 1160R3 FT	6444045	6225182	434
				SLB 90 1175R3 FT	6444052	6225184	434
SL 42 075 A2	5706922	7097080	442	SLB 90 1180R3 FT	6444069	6225186	434
SL 42 075 A4	6509799	7099702	444	SLB 90 1190R3 FT	6444076	6225188	434
SL 42 075 ALU	6509874	7099722	446	SLB 90 42 075 A2	6516292	7098654	443
SL 42 075 FT	6506897	7097115	440	SLB 90 42 075 A4	6516308	7098670	445
SL 42 075 SG	6506538	7097026	438	SLB 90 42 075 FT	6516469	7098614	441
SL 42 100 A2	5706953	7097082	442	SLB 90 42 075 SG	6516452	7098500	439
SL 42 100 A4	6509805	7099704	444	SLB 90 42 075ALU	6516759	7098684	447
SL 42 100 ALU	6509881	7099724	446	SLB 90 42 100 A2	6515615	7098656	443
SL 42 100 FT	6506958	7097123	440	SLB 90 42 100 A4	6515691	7098672	445
SL 42 100 SG	6506590	7097034	438	SLB 90 42 100 FT	6509713	7098618	441
SL 42 150 A2	5706960	7097084	442	SLB 90 42 100 SG	6509416	7098502	439
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SLB 90 42 150 FT	6509775	7098626	441	SLGBE 1120 FT	6445158	6225530	437
SLB 90 42 150 SG	6509478	7098510	439	SLGBE 1130 FT	6445165	6225532	437
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SLB 90 42 200 A4	6515738	7098676	445	SLGBE 1150 FT	6445196	6225538	437
SLB 90 42 200 FT	6509836	7098634	441	SLGBE 1160 FT	6445202	6225540	437
SLB 90 42 200 SG	6509539	7098529	439	SLGBE 1175 FT	6445219	6225542	437
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SLB 90 42 250 FT	6509898	7098642	441			price/m	
SLB 90 42 250 SG	6509591	7098537	439	SLH 42 2000 A2	5708667	7103620	723
SLB 90 42 250ALU	6516513	7098692	447	SLH 42 2000 A4	5708674	7103626	723
SLB 90 42 300 A2	6515684	7098664	443	SLH 42 2000 FT	6582136	7103611	723
SLB 90 42 300 A4	6515752	7098680	445	SLH 42 2000 SG	6115518	7103603	723
SLB 90 42 300 FT	6509959	7098650	441	SLH 62 3000 A2	5708681	7103650	724
SLB 90 42 300 SG	6509652	7098545	439	SLH 62 3000 A4	5708698	7103656	725
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SLB 90 62 100 FT	6510610	7098855	451	SLL 45 30 CP FS	5064916	6011908	493
SLB 90 62 100 SG	6510016	7098707	449	SLL 45 50 CP FS	5065098	6011959	494
SLB 90 62 100ALU	6516537	7099186	457	SLL 620 CPS 4 FS	5433965	6010620	495
SLB 90 62 200 A2	6515790	7099152	453	SLL 620 CPS 4 FT	5434047	6010630	496
SLB 90 62 200 A4	6515875	7099170	455	SLL 630 CPS 4 FS	5433972	6010622	495
SLB 90 62 200 FT	6510733	7098871	451	SLL 630 CPS 4 FT	5434085	6010632	496
SLB 90 62 200 SG	6510139	7098723	449	SLL 640 CPS 4 FS	5433989	6010624	495
SLB 90 62 200ALU	6516544	7099188	457	SLL 640 CPS 4 FT	5434092	6010634	496
SLB 90 62 300 A2	6515813	7099154	453	SLL 650 CPS 4 FS	5434023	6010626	495
SLB 90 62 300 A4	6515882	7099172	455	SLL 650 CPS 4 FT	5434108	6010636	496
SLB 90 62 300 FT	6510795	7098898	451	SLL 660 CPS 4 FS	5434030	6010628	495
SLB 90 62 300 SG	6510191	7098731	449	SLL 660 CPS 4 FT	5434146	6010638	496
SLB 90 62 300ALU	6516568	7099190	457				
SLB 90 62 400 A2	6515806	7099156	453	SLM 50 C40 10 FT	6168613	6010547	500
SLB 90 62 400 A4	6515912	7099174	455	SLM 50 C40 11 FT	6168552	6010555	500
SLB 90 62 400 FT	6510856	7098901	451	SLM 50 C40 12 FT	6168491	6010563	500
SLB 90 62 400 SG	6510252	7098758	449	SLM 50 C40 2 FT	6146116	6010466	500
SLB 90 62 400ALU	6516575	7099192	457	SLM 50 C40 3 FT	6146178	6010474	500
SLB 90 62 500 A2	6515820	7099158	453	SLM 50 C40 4 FT	6146239	6010482	500
SLB 90 62 500 A4	6515929	7099176	455	SLM 50 C40 5 FT	6146291	6010490	500
SLB 90 62 500 FT	6510917	7098928	451	SLM 50 C40 6 FT	6168859	6010504	500
SLB 90 62 500 SG	6510313	7098766	449	SLM 50 C40 7 FT	6168798	6010512	500
SLB 90 62 500ALU	6516582	7099194	457	SLM 50 C40 8 FT	6168736	6010520	500
SLB 90 62 600 A2	6515851	7099160	453	SLM 50 C40 9 FT	6168675	6010539	500
SLB 90 62 600 A4	6515936	7099178	455				
SLB 90 62 600 FT	6510979	7098936	451	SLS 80 C40 10 FT	6011599	6013465	505
SLB 90 62 600 SG	6510375	7098774	449	SLS 80 C40 11 FT	6011650	6013473	505
SLB 90 62 600ALU	6516599	7099196	457	SLS 80 C40 12 FT	6011711	6013481	505
				SLS 80 C40 2 FT	6358632	6013384	505
SLB90 11100R3 FT	6449095	6225190	434	SLS 80 C40 3 FT	6358694	6013392	505
SLB90 11120R3 FT	6444083	6225194	434	SLS 80 C40 4 FT	6011230	6013406	505
				SLS 80 C40 5 FT	6011292	6013414	505
		price/m		SLS 80 C40 6 FT	6011353	6013422	505
SLCS 11100 3 FT	6431946	6207320	426	SLS 80 C40 7 FT	6011414	6013430	505
SLCS 11100 3FTSO	6696970	7186416	472	SLS 80 C40 8 FT	6011476	6013449	505
				SLS 80 C40 9 FT	6011537	6013457	505
SLCS 11120 3 FT	6431953	6207322	426	SLS 80 W40 10 FT	6012138	6013902	506
SLCS 1120 3 FT	6431854	6207302	426	SLS 80 W40 4 FT	6011773	6013848	506
SLCS 1120 3 FTSO	6693627	7186400	472	SLS 80 W40 5 FT	6011834	6013856	506
		price/m		SLS 80 W40 6 FT	6011896	6013864	506
SLCS 1130 3 FT	6431861	6207304	426	SLS 80 W40 7 FT	6011957	6013872	506
SLCS 1140 3 FT	6431878	6207306	426	SLS 80 W40 8 FT	6012015	6013880	506
SLCS 1140 3 FTSO	6693641	7186404	472	SLS 80 W40 9 FT	6012077	6013899	506
		price/m					
SLCS 1145 3 FT	6431885	6207308	426				
SLCS 1150 3 FT	6431892	6207310	426	SLT 11100 R3 FT	6444700	6225368	435
SLCS 1150 3 FTSO	6696925	7186406	472	SLT 11120 R3 FT	6444717	6225372	435
		price/m		SLT 1120 R3 FT	6444526	6225350	435
SLCS 1160 3 FT	6431908	6207312	426	SLT 1130 R3 FT	6444533	6225352	435
SLCS 1160 3 FTSO	6696932	7186408	472	SLT 1140 R3 FT	6444540	6225354	435
		price/m		SLT 1145 R3 FT	6444588	6225356	435
SLCS 1175 3 FT	6431915	6207314	426	SLT 1150 R3 FT	6444595	6225358	435
SLCS 1175 3 FTSO	6696949	7186410	472	SLT 1160 R3 FT	6444601	6225360	435
		price/m		SLT 1175 R3 FT	6444649	6225362	435
SLCS 1180 3 FT	6431922	6207316	426	SLT 1180 R3 FT	6444656	6225364	435
SLCS 1180 3 FTSO	6696956	7186412	472	SLT 1190 R3 FT	6444663	6225366	435
		price/m					
SLCS 1190 3 FT	6431939	6207318	426	SLV 42 A4	5980490	7103560	442
SLCS 1190 3 FTSO	6696963	7186414	472	SLV 42 A4	5980490	7103560	444
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SLV 52 FT	6635993	7103532	464	SLZB 90 500 A2	6516001	7099038	468
SLV 62 A4	6698141	7103594	452	SLZB 90 500 A4	6516186	7099068	469
SLV 62 ALU	6698127	7103586	456	SLZB 90 500 ALU	6516650	7099098	470
SLV 62 FT	6698110	7103576	450	SLZB 90 500 FT	5784838	7099008	467
		price/m		SLZB 90 500 SG	6516360	7098984	465
SLZ 100 A2	5708285	7098192	468	SLZB 90 600 A2	6516032	7099040	468
SLZ 100 A4	5708414	7098222	469	SLZB 90 600 A4	6516216	7099070	469
SLZ 100 ALU	6510054	7099772	471	SLZB 90 600 ALU	6516667	7099100	470
SLZ 100 FT	5708032	7098132	466	SLZB 90 600 FT	5807780	7099010	467
SLZ 100 SG	5708148	7098162	464	SLZB 90 600 SG	6516384	7098986	465
SLZ 150 FT	6046423	7098133	466	SLZB L 90 100 A2	6519064	7099241	462
SLZ 200 A2	5708292	7098194	468	SLZB L 90 100 A4	6519156	7099261	463
SLZ 200 A4	5708421	7098224	469	SLZB L 90 100 FT	6518975	7099221	459
SLZ 200 ALU	6510061	7099774	471	SLZB L 90 100 SG	6518906	7099201	458
SLZ 200 FT	5708049	7098134	466	SLZB L 90 200 A2	6519088	7099243	462
SLZ 200 SG	5708155	7098164	464	SLZB L 90 200 A4	6519170	7099263	463
SLZ 300 A2	5708308	7098196	468	SLZB L 90 200 FT	6518999	7099224	459
SLZ 300 A4	5708438	7098226	469	SLZB L 90 200 SG	6518920	7099203	458
SLZ 300 ALU	6510092	7099776	471	SLZB L 90 300 A2	6519095	7099245	462
SLZ 300 FT	5708056	7098136	466	SLZB L 90 300 A4	6519187	7099265	463
SLZ 300 SG	5708162	7098166	464	SLZB L 90 300 FT	6519002	7099226	459
SLZ 400 A2	5708339	7098198	468	SLZB L 90 300 SG	6518937	7099205	458
SLZ 400 A4	5708445	7098228	469	SLZB L 90 400 A2	6519101	7099247	462
SLZ 400 ALU	6510108	7099778	471	SLZB L 90 400 A4	6519194	7099268	463
SLZ 400 FT	5708063	7098138	466	SLZB L 90 400 FT	6519033	7099228	459
SLZ 400 SG	5708179	7098168	464	SLZB L 90 400 SG	6518944	7099208	458
SLZ 500 A2	5708346	7098200	468	SLZB L 90 500 A2	6519118	7099249	462
SLZ 500 A4	5708452	7098230	469	SLZB L 90 500 A4	6519200	7099270	463
SLZ 500 ALU	6510115	7099780	471	SLZB L 90 500 FT	6519040	7099230	459
SLZ 500 FT	5708070	7098140	466	SLZB L 90 500 SG	6518951	7099210	458
SLZ 500 SG	5708186	7098170	464	SLZB L 90 600 A2	6519125	7099251	462
SLZ 600 A2	5708353	7098202	468	SLZB L 90 600 A4	6519217	7099272	463
SLZ 600 A4	5708469	7098232	469	SLZB L 90 600 FT	6519057	7099232	459
SLZ 600 ALU	6510122	7099782	471	SLZB L 90 600 SG	6518968	7099212	458
SLZ 600 FT	5708087	7098142	466			price/m	
SLZ 600 SG	5708193	7098172	464	SLZL 100MW FTKVW	6566518	7098300	461
SLZ L 100 A2	5707813	7098062	460	SLZL 200MW FTKVW	6565955	7098302	461
SLZ L 100 A4	5707943	7098082	463				
SLZ L 100 FT	5707646	7098002	459	SPHS 4,8x9,5 G		6049248	770
SLZ L 100 SG	5707745	7098032	458				
SLZ L 200 A2	5707868	7098066	460			/pc.	
SLZ L 200 A4	5707981	7098086	463	SPR C30 195 FS	5740803	6009959	485
SLZ L 200 FT	5707691	7098006	459	SPR C30 195 FT	5709664	6009979	485
SLZ L 200 SG	5707769	7098036	458	SPR C30 295 FS	5740810	6009961	485
SLZ L 300 A2	5707875	7098068	460	SPR C30 395 FS	5740827	6009963	485
SLZ L 300 A4	5707998	7098088	463	SPR C30 395 FT	5709688	6009983	485
SLZ L 300 FT	5707707	7098008	459	SPR C30 495 FS	5740858	6009965	485
SLZ L 300 SG	5707776	7098038	458	SPR C30 495 FT	5709725	6009985	485
SLZ L 400 A2	5707882	7098070	460	SPR C30 595 FS	5740865	6009967	485
SLZ L 400 A4	5708001	7098090	463	SPR C30 595 FT	5709732	6009987	485
SLZ L 400 FT	5707714	7098010	459	SPR C30 795 FS	5740872	6009969	485
SLZ L 400 SG	5707783	7098040	458	SPR C30 995 FS	5740889	6009971	485
SLZ L 500 A2	5707929	7098072	460				
SLZ L 500 A4	5708018	7098092	463	SSE SSLB 100 FS	6632879	6049290	262
SLZ L 500 FT	5707721	7098012	459	SSE SSLB 200 FS	6632886	6049292	262
SLZ L 500 SG	5707790	7098042	458	SSE SSLB 300 FS	6632893	6049294	262
SLZ L 600 A2	5707936	7098074	460	SSE SSLB 400 FS	6632909	6049296	262
SLZ L 600 A4	5708025	7098094	463	SSE SSLB 500 FS	6632916	6049298	262
SLZ L 600 FT	5707738	7098014	459	SSE SSLB 600 FS	6632923	6049300	262
SLZ L 600 SG	5707806	7098044	458				
		/pc.		SSLB 100 A2	6095728	7070353	240
SLZB 90 100 A2	6515943	7099030	468	SSLB 100 A2	6095728	7070353	275
SLZB 90 100 A4	6516117	7099060	469	SSLB 100 A2	6095728	7070353	283
SLZB 90 100 ALU	6516605	7099090	470	SSLB 100 A4	5021520	7070390	240
SLZB 90 100 FT	5807759	7099000	467	SSLB 100 A4	5021520	7070390	275
SLZB 90 100 SG	6516322	7098976	465	SSLB 100 A4	5021520	7070390	283
SLZB 90 200 A2	6515974	7099032	468	SSLB 100 DD	6095247	7070306	240
SLZB 90 200 A4	6516162	7099062	469	SSLB 100 DD	6095247	7070306	275
SLZB 90 200 ALU	6516629	7099092	470	SSLB 100 DD	6095247	7070306	282
SLZB 90 200 FT	5807766	7099002	467	SSLB 100 FS	6079971	7070205	240
SLZB 90 200 SG	6516339	7098978	465	SSLB 100 FS	6079971	7070205	275
SLZB 90 300 A2	6515981	7099034	468	SSLB 100 FS	6079971	7070205	282
SLZB 90 300 A4	6516179	7099064	469	SSLB 150 DD	6095308	7070310	240
SLZB 90 300 ALU	6516636	7099094	470	SSLB 150 DD	6095308	7070310	275
SLZB 90 300 FT	5784807	7099004	467	SSLB 150 DD	6095308	7070310	282
SLZB 90 300 SG	6516346	7098980	465	SSLB 150 FS	6094820	7070209	240
SLZB 90 400 A2	6515998	7099036	468	SSLB 150 FS	6094820	7070209	275
SLZB 90 400 A4	6515578	7099066	469	SSLB 150 FS	6094820	7070209	282
SLZB 90 400 ALU	6516643	7099096	470	SSLB 200 A2	6095780	7070361	240
				SSLB 200 A2	6095780	7070361	275



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SSLB 200 A4	5021582	7070392	275	STA BKRS 300 FT	6695102	6044545	264
SSLB 200 A4	5021582	7070392	283	STA BKRS 400 FT	6695119	6044547	264
SSLB 200 DD	6095360	7070314	240	STA BKRS 500 FT	6695126	6044551	264
SSLB 200 DD	6095360	7070314	275	STA BKRS 600 FT	6695133	6044553	264
SSLB 200 DD	6095360	7070314	282				
SSLB 200 FS	6094882	7070213	240	STP Z 1010 FS	6341726	6044581	265
SSLB 200 FS	6094882	7070213	275	STP Z 1020 FS	6341733	6044583	265
SSLB 200 FS	6094882	7070213	282	STP Z 1030 FS	6341740	6044585	265
SSLB 300 A2	6095841	7070365	240				
SSLB 300 A2	6095841	7070365	275	STP Z 10300 FS	6341795	6044596	265
SSLB 300 A2	6095841	7070365	283				
SSLB 300 A4	5021605	7070394	240	STP Z 1040 FS	6341757	6044587	265
SSLB 300 A4	5021605	7070394	275	STP Z 1050 FS	6341764	6044589	265
SSLB 300 A4	5021605	7070394	283	STP Z 1060 FS	6341771	6044591	265
SSLB 300 DD	6095421	7070318	240				
SSLB 300 DD	6095421	7070318	275	SV A2	6065233	6066933	543
SSLB 300 DD	6095421	7070318	282	SV DD	6084432	6066941	543
SSLB 300 FS	6094943	7070217	240				
SSLB 300 FS	6094943	7070217	275				
SSLB 300 FS	6094943	7070217	282				
SSLB 400 A2	6095902	7070369	240	SVE 41 A2	5939238	1123126	732
SSLB 400 A2	6095902	7070369	275	SVE 41 A4	5939245	1123128	732
SSLB 400 A2	6095902	7070369	283	SVE 41 FT	5939214	1123121	732
SSLB 400 A4	5021766	7070396	240				
SSLB 400 A4	5021766	7070396	275				
SSLB 400 A4	5021766	7070396	283	TKG 30 42 FT	6014415	6018963	507
SSLB 400 DD	6095483	7070322	240	TKG 30 42 FT	6014415	6018963	620
SSLB 400 DD	6095483	7070322	275				
SSLB 400 DD	6095483	7070322	282				
SSLB 400 FS	6095001	7070221	240	TK 213	5145936	1484702	667
SSLB 400 FS	6095001	7070221	275				
SSLB 400 FS	6095001	7070221	282	TK FL G	5407140	1488111	667
SSLB 500 A2	6095964	7070373	240				
SSLB 500 A2	6095964	7070373	275	TK MULTI 16	5928133	1485144	665
SSLB 500 A2	6095964	7070373	283	TK MULTI 24	5928140	1485148	665
SSLB 500 A4	5021711	7070398	240	TK MULTI 8	5928126	1485140	665
SSLB 500 A4	5021711	7070398	275				
SSLB 500 A4	5021711	7070398	283				
SSLB 500 DD	6095544	7070326	240	TKH-L-25 FT	6579259	6355812	679
SSLB 500 DD	6095544	7070326	275	TKH-S-30 ZL	6677702	6355805	679
SSLB 500 DD	6095544	7070326	282				
SSLB 500 FS	6095063	7070225	240				
SSLB 500 FS	6095063	7070225	275	TKL 4	5146353	1485105	665
SSLB 500 FS	6095063	7070225	282	TKL 6	5146414	1485113	665
SSLB 550 DD	6095605	7070330	275				
SSLB 550 DD	6095605	7070330	282	TKR 9	5141495	1481711	665
SSLB 550 DD	6095605	7070330	240				
SSLB 550 FS	6095124	7070229	240	TKS 213-25	5145998	1484818	668
SSLB 550 FS	6095124	7070229	275	TKS 213-32	5146056	1484826	668
SSLB 550 FS	6095124	7070229	282	TKS 213-42	6471355	1484838	668
SSLB 600 A2	6096022	7070381	240				
SSLB 600 A2	6096022	7070381	275				
SSLB 600 A2	6096022	7070381	283	TKS-L-25 FT	6579075	6355808	678
SSLB 600 A4	5021827	7070400	240				
SSLB 600 A4	5021827	7070400	275	TKS-L36 M12 A2	6039548	6355836	677
SSLB 600 A4	5021827	7070400	283	TKS-L36 M12 A4	6045211	6355837	678
SSLB 600 DD	6095667	7070334	240	TKS-L-36 M12 FT	5966029	6355829	678
SSLB 600 DD	6095667	7070334	275	TKS-L36 M8 A2	6039593	6355834	677
SSLB 600 DD	6095667	7070334	282	TKS-L36 M8 A4	6045181	6355835	677
SSLB 600 FS	6095186	7070233	240	TKS-L-36 M8 FT	5966012	6355828	678
SSLB 600 FS	6095186	7070233	275	TKS-S-30 ZL	6677696	6355798	679
SSLB 600 FS	6095186	7070233	282				
		/100 pc.		TKT	5149231	1486861	671
SSP 20-40 M6 A2	6342174	1486242	669				
SSP 20-40 M6 A4	6342181	1486244	669				
SSP 20-40 M6 FT	6342167	1486238	669	TPB 100 A2	5523673	6357516	656
SSP 20-40 M8 A2	6342211	1486292	669	TPB 100 FS	5523666	6357506	521
SSP 20-40 M8 A4	6342228	1486294	669	TPB 100 FS	5523666	6357506	656
SSP 20-40 M8 FT	6342204	1486288	669	TPB 180 A2	6859078	6357524	657
SSP 6-21 M6 A2	6342136	1486234	668	TPB 180 FS	6859085	6357522	656
SSP 6-21 M6 A4	6342150	1486236	668				
SSP 6-21 M6 FT	6342112	1486232	668	TPB R A2	5523727	6357538	657
SSP 6-21 M8 A2	6342143	1486284	668	TPB R FS	5523680	6357536	522
SSP 6-21 M8 A4	6342198	1486286	668	TPB R FS	5523680	6357536	657
SSP 6-21 M8 FT	6342129	1486282	668				
		/pc.		TPD 145 FS	6198610	6363806	636
SSV A2	6064816	6066054	543	TPD 145 FT	5076858	6363861	637
SSV FT	6064755	6066046	543	TPD 245 FS	6198672	6363814	636
				TPD 245 FT	5076865	6363865	637
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TPD 545 FS	5460428	6363829	636	TR M8 1M A4	6098408	3141492	656
		/pc.		TR M8 1M G	5253334	3141128	521
TPDG 145 A2	5617747	6365989	640	TR M8 1M G	5253334	3141128	655
TPDG 145 FS	6511754	6365906	638	TR M8 2M A2	5882886	3141330	656
TPDG 145 FT	5076902	6365977	639	TR M8 2M A4	6098439	3141494	656
TPDG 195 A2	5617754	6365991	640	TR M8 2M G	5119982	3141136	521
TPDG 195 FS	6042609	6365914	638	TR M8 2M G	5119982	3141136	655
TPDG 245 A2	5617761	6365993	640			price/m	
TPDG 245 FS	6511815	6365922	638	TSG 110 A2	5778431	6062255	210
TPDG 245 FT	5076919	6365981	639	TSG 110 A2	5778431	6062255	283
TPDG 345 A2	5617778	6365995	640	TSG 110 DD	5694700	6062335	210
TPDG 345 FS	6984329	6365949	638	TSG 110 DD	5694700	6062335	230
TPDG 345 FT	5076926	6365985	639	TSG 110 DD	5694700	6062335	283
				TSG 110 DD	5694700	6062335	303
TPS 3000 FS	6282739	6364802	697	TSG 110 DD	5694700	6062335	306
TPS 445 A2	5617730	6364848	629	TSG 110 FS	5694588	6062122	210
TPS 445 FS	6199334	6364322	627	TSG 110 FS	5694588	6062122	230
TPS 445 FT	6473717	6364403	628	TSG 110 FS	5694588	6062122	283
TPS 545 A2	5617860	6364850	629	TSG 110 FS	5694588	6062122	303
TPS 545 FS	6199396	6364349	627	TSG 110 FS	5694588	6062122	306
TPS 545 FT	6473779	6364500	628	TSG 110 FS	5694588	6062122	306
TPS 645 A2	5617877	6364852	629	TSG 110 FT SO	6029020	7190498	230
TPS 645 FS	6199457	6364365	627	TSG 135 DD	5694717	6062338	284
TPS 645 FT	6473830	6364608	628	TSG 135 DD	5694717	6062338	303
TPS KS OR	5668084	6364625	645	TSG 135 DD	5694717	6062338	307
				TSG 135 FS	5694595	6062132	284
TPSA 145 A2	5733157	6364871	631	TSG 135 FS	5694595	6062132	303
TPSA 145 FS	6198979	6364101	632	TSG 135 FS	5694595	6062132	307
TPSA 145 FT	6473892	6364659	633	TSG 30 A2	5694502	6062052	325
TPSA 195 FT	6555673	6364683	633	TSG 30 DD	5694663	6062314	76
TPSA 245 A2	5733164	6364876	631	TSG 30 DD	5694663	6062314	83
TPSA 245 FS	6199099	6364209	632	TSG 30 DD	5694663	6062314	325
TPSA 245 FT	6473953	6364667	633	TSG 30 FS	5694496	6062050	76
TPSA 345 A2	5733171	6364881	631	TSG 30 FS	5694496	6062050	83
TPSA 345 FS	6199273	6364306	632	TSG 30 FS	5694496	6062050	325
TPSA 345 FT	6474011	6364675	633	TSG 45 A2	5694441	6062025	109
TPSAG 145 A2	5617785	6366145	644	TSG 45 A2	5694441	6062025	157
TPSAG 145 FS	6627554	6366015	634	TSG 45 A2	5694441	6062025	334
TPSAG 145 FT	5076957	6366131	635	TSG 45 A2	5694441	6062025	418
TPSAG 195 A2	5617792	6366146	644	TSG 45 A4	5694472	6062028	109
TPSAG 195 FS	6627615	6366023	634	TSG 45 A4	5694472	6062028	157
TPSAG 195 FT	5076964	6366135	635	TSG 45 A4	5694472	6062028	334
TPSAG 245 A2	5617808	6366148	644	TSG 45 A4	5694472	6062028	418
TPSAG 245 FS	6545353	6366031	634	TSG 45 DD	5694670	6062321	109
TPSAG 245 FT	5076971	6366139	635	TSG 45 DD	5694670	6062321	156
TPSAG 345 A2	5617815	6366149	644	TSG 45 DD	5694670	6062321	334
TPSAG 345 FS	6545292	6366066	634	TSG 45 DD	5694670	6062321	418
TPSAG 345 FT	5076988	6366143	635	TSG 45 FS	5694489	6062033	109
				TSG 45 FS	5694489	6062033	156
TPSG 150L FS	5381693	6366533	630	TSG 45 FS	5694489	6062033	334
TPSG 200L FS	5381709	6366536	630	TSG 45 FS	5694489	6062033	418
TPSG 250L FS	5381716	6366539	630	TSG 60 A2	5694557	6062084	109
TPSG 3000 A2	7274504	6366094	697	TSG 60 A2	5694557	6062084	157
		/pc.		TSG 60 A4	5694564	6062086	109
TPSG 3000 FS	6079032	6366090	697	TSG 60 A4	5694564	6062086	157
TPSG 3000 FT	5424925	6366093	697	TSG 60 DD	5694687	6062327	109
TPSG 300L FS	5381723	6366542	697	TSG 60 DD	5694687	6062327	157
TPSG 400L FS	5381754	6366545	630	TSG 60 DD	5694687	6062327	191
TPSG 500L FS	5381761	6366548	630	TSG 60 FS	5694540	6062068	109
TPSG 600L FS	5381778	6366551	630	TSG 60 FS	5694540	6062068	157
TPSG 700L FS	5381785	6366554	630	TSG 60 FS	5694540	6062068	191
				TSG 60 FT SO	5943686	7190495	157
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TR M10 1M A4	6098446	3141502	656	TSG 85 A2	5694601	6062173	295
TR M10 1M G	5253396	3141209	521	TSG 85 A2	5694601	6062173	344
TR M10 1M G	5253396	3141209	655	TSG 85 A2	5694601	6062173	433
TR M10 2M A2	6096909	3141339	656	TSG 85 DD	5694694	6062331	178
TR M10 2M G	5123583	3141140	521	TSG 85 DD	5694694	6062331	192
TR M10 3M G	5895152	3141233	655	TSG 85 DD	5694694	6062331	210
TR M12 1M A2	5594437	3141314	656	TSG 85 DD	5694694	6062331	230
TR M12 1M G	5253457	3141306	521	TSG 85 DD	5694694	6062331	276
TR M12 1M G	5253457	3141306	655	TSG 85 DD	5694694	6062331	294
TR M12 2M G	5123644	3141144	521	TSG 85 DD	5694694	6062331	344
TR M12 2M G	5123644	3141144	655	TSG 85 FS	5694694	6062331	433
TR M6 1M A2	6096886	3141327	656	TSG 85 FS	5694571	6062114	178
TR M6 1M A4	6098385	3141482	656	TSG 85 FS	5694571	6062114	192
TR M6 1M G	5253211	3141047	655	TSG 85 FS	5694571	6062114	210
TR M6 2M A2	6096893	3141328	656	TSG 85 FS	5694571	6062114	230
TR M6 2M A4	6098392	3141484	656	TSG 85 FS	5694571	6062114	276
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TSG110Z BKRS FS	6147779	6062391	230				
		/pc.		US 5 100 A2	6082094	6341133	608
TSGV A2	5694724	6067970	76	US 5 100 FT	6284177	6340962	501
TSGV A2	5694724	6067970	83	US 5 100 FT	6284177	6340962	608
TSGV A2	5694724	6067970	109	US 5 100 FT SO	6954438	7193580	609
TSGV A2	5694724	6067970	157	US 5 110 A2	6082155	6341137	608
TSGV A2	5694724	6067970	178	US 5 110 FT	5776277	6340964	501
TSGV A2	5694724	6067970	192	US 5 110 FT	5776277	6340964	608
TSGV A2	5694724	6067970	210	US 5 120 A2	6082216	6341141	608
TSGV A2	5694724	6067970	230	US 5 150 FT	6437597	6340966	501
TSGV A2	5694724	6067970	276	US 5 150 FT	6437597	6340966	608
TSGV A2	5694724	6067970	284	US 5 20 A2	6081554	6341101	608
TSGV A2	5694724	6067970	295	US 5 20 FT	6959006	6340881	501
TSGV A2	5694724	6067970	303	US 5 20 FT	6959006	6340881	608
TSGV A2	5694724	6067970	307	US 5 200 FT	6437658	6340970	501
TSGV A2	5694724	6067970	325	US 5 200 FT	6437658	6340970	608
TSGV A2	5694724	6067970	334	US 5 30 A2	6081615	6341105	608
TSGV A2	5694724	6067970	344	US 5 30 A2	6081615	6341105	608
TSGV A2	5694724	6067970	419	US 5 30 A4	5020981	6341053	608
TSGV A2	5694724	6067970	433	US 5 30 FT	6959068	6340903	501
US 3 100 A2	5705727	6342460	607	US 5 30 FT	6959068	6340903	608
US 3 100 A4	5705833	6342491	607	US 5 300 A2	6082278	6341152	608
US 3 100 FS	6223572	6342318	606	US 5 300 A4	5022305	6341073	608
US 3 150 A2	5705765	6342463	607	US 5 300 FT	6446957	6340989	501
US 3 150 A4	5705840	6342494	607	US 5 300 FT	6446957	6340989	608
US 3 150 FS	6223633	6342328	606	US 5 40 A2	6081677	6341109	608
US 3 20 FS	6221776	6342302	606	US 5 40 A4	6181995	6341055	608
US 3 200 A2	5705772	6342466	607	US 5 40 FT	6959129	6340911	501
US 3 200 A4	5705871	6342497	607	US 5 40 FT	6959129	6340911	608
US 3 200 FS	6224296	6342338	606	US 5 50 A2	6081738	6341113	608
US 3 30 A2	5705703	6342455	607	US 5 50 A4	6182053	6341057	608
US 3 30 A4	5705789	6342485	607	US 5 50 FT	6959181	6340938	501
US 3 30 FS	6222018	6342304	606	US 5 50 FT	6959181	6340938	608
US 3 300 FS	5710905	6342340	606	US 5 50 FT SO	5763505	7193560	609
US 3 40 FS	6222070	6342306	606	US 5 60 A2	6081790	6341117	608
US 3 50 A2	5705710	6342457	607	US 5 60 A4	6183319	6341059	608
US 3 50 A4	5705826	6342488	607	US 5 60 FT	6601752	6340946	501
US 3 50 FS	6222315	6342308	606	US 5 60 FT	6601752	6340946	608
US 3 60 FS	6222377	6342310	606	US 5 600 FT	6437719	6340997	501
US 3 600 A2	5706373	6342468	607	US 5 600 FT	6437719	6340997	608
US 3 600 A4	5618478	6342505	607	US 5 70 A2	6081851	6341121	608
US 3 600 FS	6224418	6342345	606	US 5 70 FT	6043927	6340950	501
US 3 600 FT	6225491	6342450	606	US 5 70 FT	6043927	6340950	608
US 3 600 FT	6225491	6342450	502	US 5 80 A2	6081912	6341125	608
US 3 70 FS	6222438	6342312	606	US 5 80 A4	6237135	6341063	608
US 3 80 FS	6222490	6342314	606	US 5 80 FT	6044047	6340954	501
US 3 90 FS	6223510	6342316	606	US 5 80 FT	6044047	6340954	608
US 3 K 100 A2	5705437	6342417	585	US 5 90 A2	6081974	6341129	608
US 3 K 100 A4	5705697	6342397	586	US 5 90 A4	6183371	6341065	608
US 3 K 100 FT	6225132	6342368	584	US 5 90 FT	6044160	6340958	501
US 3 K 110 A4	5912873	6342396	586	US 5 90 FT	6044160	6340958	608
US 3 K 110 FT	6225378	6342370	584	US 5 K 100 A2	6350711	6341390	591
US 3 K 120 A4	5912880	6342398	586	US 5 K 100 A4	6459919	6341241	592
US 3 K 120 FT	6225439	6342372	584	US 5 K 100 FT	6536290	6341616	590
US 3 K 20 A2	5705352	6342401	585	US 5 K 100 FT SO	5864752	7193524	593
US 3 K 20 A4	5705635	6342375	586	US 5 K 110 A2	6350773	6341394	591
US 3 K 20 FT	6224470	6342351	584	US 5 K 110 A4	6816552	6341245	592
US 3 K 30 A2	5705369	6342403	585	US 5 K 110 FT	6536238	6341624	590
US 3 K 30 A4	5395355	6342530	586	US 5 K 120 A2	6350834	6341398	591
US 3 K 30 FT	6224531	6342353	584	US 5 K 120 A4	6816613	6341249	592
US 3 K 40 A2	5705376	6342405	585	US 5 K 120 FT	6536177	6341632	590
US 3 K 40 A4	5705642	6342379	586	US 5 K 120 FT SO	5389620	7193527	593
US 3 K 40 FT	6224593	6342355	584	US 5 K 150 FT	6561056	6341640	590
US 3 K 50 A2	5705383	6342407	585	US 5 K 20 A2	6477135	6341358	591
US 3 K 50 A4	5705659	6342381	586	US 5 K 20 A4	6815531	6341209	592
US 3 K 50 FT	6224654	6342357	584	US 5 K 20 FT	6536771	6341527	590
US 3 K 60 A2	5705390	6342409	585	US 5 K 30 A2	6644230	6341362	591
US 3 K 60 A4	5618461	6342389	586	US 5 K 30 A4	6815593	6341213	592
US 3 K 60 FT	6224715	6342359	584	US 5 K 30 FT	6536719	6341535	590
US 3 K 70 A2	5705406	6342411	585	US 5 K 30 FT SO	5894605	7193509	593
US 3 K 70 A4	5705666	6342391	586				
US 3 K 70 FT	6224777	6342362	584	US 5 K 40 A2	6350292	6341366	591
US 3 K 80 A2	5705413	6342413	585	US 5 K 40 A4	6815654	6341217	592
US 3 K 80 A4	5705673	6342393	586	US 5 K 40 FT	6536658	6341543	590
US 3 K 80 FT	6225019	6342364	584	US 5 K 50 A2	6350414	6341370	591
US 3 K 90 A2	5705420	6342415	585	US 5 K 50 A4	6815715	6341221	592
US 3 K 90 A4	5705680	6342395	586	US 5 K 50 FT	6536597	6341551	590
US 3 K 90 FT	6225071	6342366	584	US 5 K 50 FT SO	5882664	7193511	593
						/pc.	
				US 5 K 60 A2	6350476	6341374	591
				US 5 K 60 A4	6815890	6341225	592
				US 5 K 60 FT	6536535	6341578	590



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		/pc.					
US 5 K 60 FT SO	5389613	7193516	593	US 7 K 120 A4	6803699	6338876	601
US 5 K 70 A2	6350537	6341378	591			/pc.	
US 5 K 70 A4	6816194	6341228	592	US 7 K 140 A2	6186136	6338739	599
US 5 K 70 FT	6536474	6341586	590	US 7 K 150 A2	6186198	6338747	599
US 5 K 80 A2	6350599	6341382	591	US 7 K 20 A2	6185412	6338607	599
US 5 K 80 A4	6816316	6341233	592	US 7 K 200 A2	6186495	6338801	599
US 5 K 80 FT	6536412	6341594	590	US 7 K 200 A4	5913245	6338881	600
US 5 K 90 A2	6624492	6341386	591	US 7 K 30 A2	6185474	6338615	599
US 5 K 90 A4	6816439	6341237	592	US 7 K 30 A4	6803637	6338858	601
US 5 K 90 FT	6536351	6341608	590			/pc.	
US 5 KS OR	5668046	6338462	501	US 7 K 40 A2	6185535	6338623	599
US 5 KS OR	5668046	6338462	594	US 7 K 40 A4	6803644	6338860	601
						/pc.	
US 7 100 A2	6189434	6341810	610	US 7 K 50 A2	6185597	6338631	599
US 7 100 FT	6188178	6340180	503	US 7 K 60 A2	6185658	6338658	599
US 7 100 FT	6188178	6340180	610	US 7 K 60 A4	6803675	6338864	601
US 7 110 FT	6188239	6340199	610			/pc.	
US 7 120 FT	6188291	6340202	503	US 7 K 70 A2	6185719	6338666	599
US 7 120 FT	6188291	6340202	610	US 7 K 80 A2	6185771	6338674	599
US 7 130 FT	6188352	6340210	503	US 7 K 80 A4	6803682	6338868	601
US 7 130 FT	6188352	6340210	610			/pc.	
US 7 140 FT	6188413	6340229	503	US 7 K 90 A2	6185832	6338682	599
US 7 140 FT	6188413	6340229	610	US 7 KS OR	5668060	6338497	503
US 7 150 A2	6189731	6341861	611	US 7 KS OR	5668060	6338497	603
US 7 150 FT	6188475	6340237	503				
US 7 150 FT	6188475	6340237	610	USL 5 200 FS	6640270	6344305	609
US 7 160 FT	6188536	6340245	503				
US 7 160 FT	6188536	6340245	610	VEK-GRM 3.9 FS	5304111	6016694	386
US 7 170 FT	6188598	6340253	503	VEK-GRM 4.8 FS	5304128	6016696	386
US 7 170 FT	6188598	6340253	610				
US 7 180 FT	6188659	6340261	503	VF AZK 50 A2	5863861	6066629	537
US 7 180 FT	6188659	6340261	610	VF AZK 50 DD	6046089	6066623	517
US 7 190 FT	6188710	6340288	503	VF AZK 50 DD	6046089	6066623	537
US 7 190 FT	6188710	6340288	610	VF AZK 50 FS	5049623	6066615	517
US 7 20 FT	6187690	6340016	503	VF AZK 50 FS	5049623	6066615	537
US 7 20 FT	6187690	6340016	610	VF AZK A2	6065059	6066569	538
US 7 200 A2	6190034	6341950	610	VF AZK A4	5866206	6066571	538
US 7 200 FT	6188772	6340296	503	VF AZK FT	6064991	6066550	518
US 7 200 FT	6188772	6340296	610	VF AZK FT	6064991	6066550	538
US 7 250 FT	6458172	6340385	503	VF AZK FTK KGR	6424191	6066640	766
US 7 250 FT	6458172	6340385	610				
US 7 30 A4	6803705	6341750	610	VIS 8 FT	6014231	6018300	507
		/pc.					
US 7 30 FT	6187751	6340032	503	VL-3Q2.5 10 SW	5123248	6108159	520
US 7 30 FT	6187751	6340032	610	VL-3Q2.5 3 SW	5123118	6108152	520
US 7 300 A2	6190096	6341969	610	VL-3Q2.5 5 SW	5123163	6108154	520
US 7 300 A4	6802418	6341970	610				
		/pc.		VUS 3 A2	5706007	6018517	587
US 7 300 FT	6188895	6340377	503	VUS 3 A4	5618454	6018520	587
US 7 300 FT	6188895	6340377	610	VUS 3 FT	6229154	6018513	502
US 7 40 A4	6803736	6341758	610	VUS 3 FT	6229154	6018513	586
		/pc.		VUS 5 A2	6803453	6018512	594
US 7 40 FT	6187812	6340059	503			/pc.	
US 7 40 FT	6187812	6340059	610	VUS 5 A4	6082773	6018509	594
US 7 400 FT	6458233	6340393	503	VUS 5 FT	6446896	6018505	593
US 7 400 FT	6458233	6340393	610	VUS 5 FT	6446896	6018505	593
US 7 50 A2	6189137	6341764	610	VUS 7 A2	6014354	6018408	603
US 7 50 A4	6803743	6341766	610	VUS 7 A4	6803873	6018412	603
		/pc.				/pc.	
US 7 50 FT	6187874	6340075	503	VUS 7 FT	6014293	6018378	503
US 7 50 FT	6187874	6340075	610	VUS 7 FT	6014293	6018378	602
US 7 60 A4	6803750	6341774	610				
		/pc.		WAAD 200 DD	6080717	6231922	310
US 7 60 FT	6187935	6340091	503	WAAD 200 FS	6080410	6231900	310
US 7 60 FT	6187935	6340091	610	WAAD 300 DD	6080779	6231926	310
US 7 600 A2	6190157	6341993	610	WAAD 300 FS	6080472	6231904	310
US 7 600 A4	6411634	6341995	610	WAAD 400 DD	6080830	6231930	310
US 7 600 FT	6188833	6340318	503	WAAD 400 FS	6080533	6231908	310
US 7 600 FT	6188833	6340318	610	WAAD 500 DD	6080892	6231934	310
US 7 70 FT	6187997	6340113	503	WAAD 500 FS	6080595	6231912	310
US 7 70 FT	6187997	6340113	610	WAAD 600 DD	6080953	6231938	310
US 7 80 A4	6803859	6341800	610	WAAD 600 FS	6080656	6231916	310
		/pc.					
US 7 80 FT	6188055	6340148	503	WB 30 75 A2	6014774	6019668	498
US 7 80 FT	6188055	6340148	610	WB 30 75 FT	6014712	6019617	498
US 7 90 A4	6803866	6341804	610				
		/pc.		WB GR A4	6561261	6017164	385
US 7 90 FT	6188116	6340164	610	WB GR FT	6561254	6017160	384
US 7 K 100 A2	6185894	6338690	599				
US 7 K 100 A4	5913238	6338872	600			/100 pc.	
US 7 K 100 FT SO	6176175	7193661	602	WBDHE 41 A2	5939290	1123195	731
US 7 K 110 A2	6185955	6338704	599	WBDHE 41 A4	5939306	1123197	731
US 7 K 120 A2	6186013	6338712	599	WBDHE 41 FT	5939276	1123191	731



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WBV CGR50 A2	5890706	6016415	385	WESP 50 40 SG	5705574	7105675	728
WDB L 100 A2	6862252	6363742	643				
WDB L 100 FS	6862078	6363702	641	WFP 110 FT	6423583	6232500	294
WDB L 100 FT	6862177	6363722	642	WH GRM35 A4	5863021	6016445	385
WDB L 150 A2	6862269	6363744	643	WH GRM35 FT	5863014	6016443	385
WDB L 150 FS	6862085	6363704	641				
WDB L 150 FT	6862191	6363724	642				
WDB L 200 A2	6862290	6363746	643	WKL 2020 FT	6614844	6232102	305
WDB L 200 FS	6862115	6363706	641	WKL 2030 FT	6614851	6232104	305
WDB L 200 FT	6862207	6363726	642	WKL 2040 FT	6614868	6232106	305
WDB L 300 A2	6862306	6363748	643	WKL 2050 FT	6614875	6232108	305
WDB L 300 FS	6862122	6363708	641	WKL 2060 FT	6614882	6232110	305
WDB L 300 FT	6862238	6363728	642				
WDB L 400 A2	6862313	6363750	643	WKLD 2020 DD	6614790	6232402	309
WDB L 400 FS	6862139	6363710	641	WKLD 2030 DD	6614806	6232404	309
WDB L 400 FT	6862245	6363730	642	WKLD 2040 DD	6614813	6232406	309
WDB L 50 A2	6862184	6363740	643	WKLD 2050 DD	6614820	6232408	309
WDB L 50 FS	6862061	6363700	641	WKLD 2060 DD	6614837	6232410	309
WDB L 50 FT	6862146	6363720	642				
				WKLK 1120 A2	5037262	6311202	291
WDBRL 90 20 DD	6504015	6231527	309	WKLK 1120 A4	5403128	6311225	292
WDBRL 90 20 FS	6503711	6231462	309	WKLK 1120 FS	6883035	6311008	289
WDBRL 90 30 DD	6504077	6231535	309	WKLK 1120 FT	6883332	6311059	290
WDBRL 90 30 FS	6503773	6231470	309	WKLK 1130 A2	5037293	6311206	291
WDBRL 90 40 DD	6504138	6231543	309	WKLK 1130 A4	5866282	6311227	292
WDBRL 90 40 FS	6503834	6231489	309	WKLK 1130 FS	6883097	6311012	289
WDBRL 90 50 DD	6504190	6231551	309	WKLK 1130 FT	6883394	6311063	290
WDBRL 90 50 FS	6503896	6231497	309	WKLK 1140 A2	5037309	6311210	291
WDBRL 90 60 DD	6504251	6231578	309	WKLK 1140 A4	5403135	6311229	292
WDBRL 90 60 FS	6503957	6231500	309	WKLK 1140 FS	6883158	6311016	289
				WKLK 1140 FT	6883455	6311067	290
WDRL 1116 20 A2	5751267	6227360	308	WKLK 1150 A2	5037316	6311214	291
WDRL 1116 20 A4	6802449	6227361	309	WKLK 1150 A4	5866329	6311231	292
				WKLK 1150 FS	6883219	6311020	289
WDRL 1116 20 DD	6072613	6227600	308	WKLK 1150 FT	6883516	6311071	290
WDRL 1116 20 FS	6169696	6227422	308	WKLK 1160 A2	5037323	6311218	291
WDRL 1116 30 A2	5751304	6227362	308	WKLK 1160 A4	5403142	6311233	292
WDRL 1116 30 A4	6802470	6227363	309	WKLK 1160 FS	6883271	6311024	289
				WKLK 1160 FT	6883578	6311075	290
WDRL 1116 30 DD	6072736	6227604	308	WKLK 1620 A4	5909965	6227170	300
WDRL 1116 30 FS	6169757	6227430	308	WKLK 1620 FS	6169092	6227023	298
WDRL 1116 40 A2	5751311	6227364	308	WKLK 1620 FT	6169399	6227120	299
WDRL 1116 40 A4	6802500	6227365	309	WKLK 1620 FT SO	5888529	7189040	301
				WKLK 1630 A4	5909996	6227172	300
WDRL 1116 40 DD	6072910	6227608	308	WKLK 1630 FS	6169153	6227031	298
WDRL 1116 40 FS	6169818	6227449	308	WKLK 1630 FT	6169450	6227139	299
WDRL 1116 50 A2	5751328	6227366	308	WKLK 1630 FT SO	5888536	7189042	301
WDRL 1116 50 A4	6802531	6227367	309	WKLK 1640 A4	5910008	6227174	300
				WKLK 1640 FS	6169214	6227058	298
WDRL 1116 50 DD	6073092	6227612	308	WKLK 1640 FT	6169511	6227147	299
WDRL 1116 50 FS	6169870	6227457	308	WKLK 1640 FT SO	5888543	7189044	301
WDRL 1116 60 A2	5751359	6227368	308	WKLK 1650 A4	5910015	6227176	300
WDRL 1116 60 A4	6803590	6227369	309	WKLK 1650 FS	6169276	6227066	298
				WKLK 1650 FT	6169573	6227155	299
WDRL 1116 60 DD	6073276	6227616	308	WKLK 1650 FT SO	5888574	7189046	301
WDRL 1116 60 FS	6169931	6227465	308	WKLK 1660 A4	5910022	6227178	300
WDRLU DF1116 2FT	6428496	6227261	310	WKLK 1660 FS	6169337	6227074	298
WDRLU DF1116 3FT	6218851	6227263	310	WKLK 1660 FT	6169634	6227163	299
WDRLU DF1116 4FT	6218868	6227265	310	WKLK 1660 FT SO	5888581	7189048	301
WDRLU DF1116 5FT	6218875	6227267	310				
WDRLU DF1116 6FT	6218882	6227269	310	WKSG 120 A2	5683506	6098161	273
				WKSG 120 FS	6351435	6098111	271
WDTRL 200 DD	6504619	6231667	310	WKSG 120 FT	6351732	6098141	272
WDTRL 300 DD	6504671	6231675	310	WKSG 130 A2	5683513	6098165	273
WDTRL 400 DD	6504732	6231683	310	WKSG 130 FS	6351497	6098115	271
WDTRL 500 DD	6977420	6231691	310	WKSG 130 FT	6370030	6098145	272
WDTRL 600 DD	6977482	6231705	310	WKSG 140 A2	5683520	6098169	273
				WKSG 140 FS	6351558	6098119	271
WEAS 110 A2	5242536	6098483	277	WKSG 140 FT	6034277	6098149	272
WEAS 110 FS	5242512	6098475	277	WKSG 150 A2	5683568	6098173	273
WEAS 110 FT	5242529	6098479	277	WKSG 150 FS	6351619	6098123	271
WEAS 160 A2	5696346	6098868	285	WKSG 150 FT	6034031	6098153	272
WEAS 160 FS	5242543	6098860	285	WKSG 160 A2	5683575	6098177	273
WEAS 160 FT	5242550	6098864	285	WKSG 160 FS	6351671	6098127	271
				WKSG 160 FT	6033973	6098157	272
WESP 50 20 BK	6239955	7105665	728	WKSG 162 A2	5683582	6098571	280
				WKSG 162 FS	6334810	6098501	278
				WKSG 162 FT	6810734	6098550	279
				WKSG 163 A2	5683599	6098573	280
				WKSG 163 FS	6812059	6098505	278



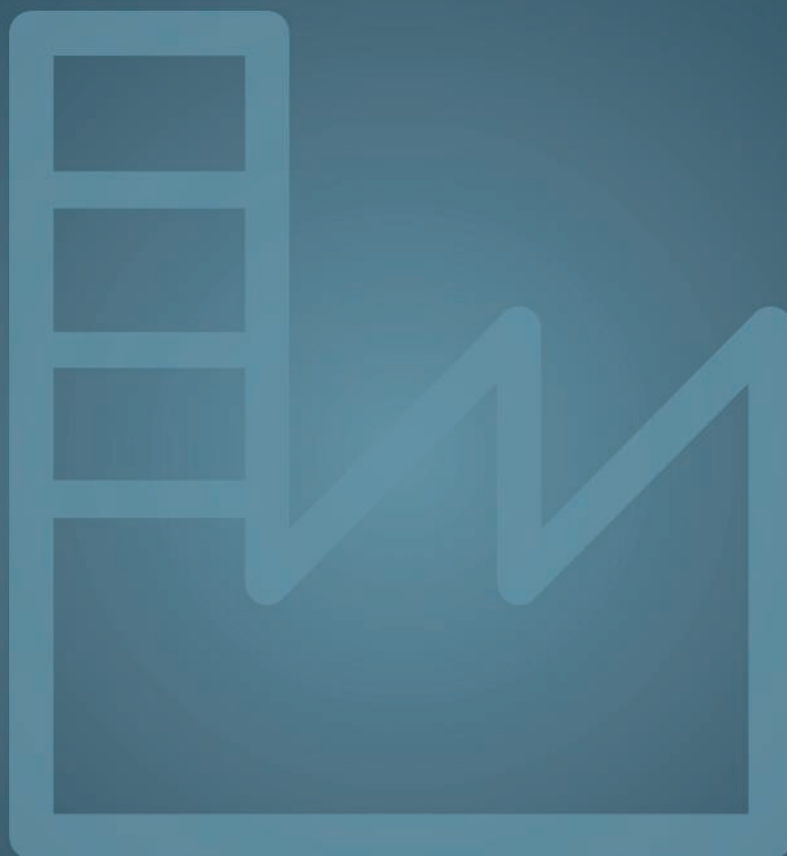
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WKSG 163 FT	6766390	6098554	279	WLT 1140 FS	6302598	6312659	296
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WKSG 164 FS	6808939	6098509	278	WLT 1150 A4	5910435	6312821	297
WKSG 164 FT	6766451	6098558	279	WLT 1150 FS	6304271	6312667	296
WKSG 165 A2	5683612	6098577	280	WLT 1150 FT	6302895	6312756	296
WKSG 165 FS	6808397	6098513	278	WLT 1160 A4	5910442	6312823	297
WKSG 165 FT	6656059	6098562	279	WLT 1160 FS	6302659	6312675	296
WKSG 166 A2	5683629	6098579	280	WLT 1160 FT	6302956	6312764	296
WKSG 166 FS	6808335	6098517	278	WLT 1620 A4	5910183	6229820	308
WKSG 166 FT	6656295	6098566	279	WLT 1620 FT	6172696	6229727	304
		/pc.		WLT 1630 A4	5910190	6229822	308
WKV 35 FS	6050116	6043038	77	WLT 1630 FT	6172757	6229735	304
WKV 35 FS	6050116	6043038	84	WLT 1640 A4	5910206	6229824	308
WKV 60 FS	6050178	6043062	111	WLT 1640 FT	6172818	6229743	304
WKV 60 FS	6050178	6043062	160	WLT 1650 A4	5910237	6229826	308
WKV 60 FT	6990382	6042910	111	WLT 1650 FT	6172870	6229751	304
WKV 60 FT	6990382	6042910	160	WLT 1660 A4	5910244	6229828	308
		/pc.		WLT 1660 FT	6172931	6229778	304
WL 607.5 LTR FS	6581078	6050345	390	WLT 2020 FT	6176595	6233627	307
		/pc.		WLT 2030 FT	6176656	6233635	307
WLB 90 112 A2	6121151	6312539	296	WLT 2040 FT	6176717	6233643	307
WLB 90 112 A4	5910251	6312550	296	WLT 2050 FT	6176779	6233651	307
WLB 90 112 FS	6301874	6312330	295	WLT 2060 FT	6176830	6233678	307
WLB 90 112 FT	6302178	6312438	295				
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WLB 90 113 FT	6302239	6312446	295	WP 40 50 3000 FT	6169160	6373200	727
WLB 90 114 A2	6901999	6312543	296	WP 40 65 5000 A2	6199631	6373062	728
WLB 90 114 A4	5910312	6312554	296	WP 40 65 5000 FT	6199693	6373070	727
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WLB 90 164 FS	6171910	6229352	304	WRAA 140 FT	6001156	6098453	277
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