



Industrial installations

Cable support systems





Our products for your project Towards the future with OBO

Reliable, safe and of the highest quality: Product features such as installation speed, load capacity, functionality and availability are at the forefront of each of our innovations. Discover the whole range of OBO products – in a new structure, allowing us to deal in a more targeted manner with the needs of you, our customers.

It is our aim to be the first port of call for the best and most innovative connections for electrical and data technology infrastructure. Thus, when looking towards the future, we have asked ourselves what we can do to be the best possible partner you could ever imagine, also in the long term. Against this backdrop, we have optimised our structure once again, sharpened our profile and defined our services more clearly. The result: Three new areas of application, which replace our previous seven product units, in order to provide you with a contemporary and user-orientated visual identity and structure, for both products and communication. This helps you to find exactly the products you are looking for in an even faster and simpler manner.

In this catalogue, we will present the entire product variety of the industrial installations application area to you. This area gives our cable support systems and the connection and fastening systems a new lease of life and can offer you everything you require to equip industrial systems with an electrical infrastructure. Here, three attributes are of paramount importance to us: efficiency, load capacity and safety.

High demands are placed on products that are used in industrial environments. They must be able to withstand both weathering and environmental conditions, as well as mechanical loads. Our products from the industrial installations area are available in many different versions and allow installation and fastening on the floor, ceiling and wall, both indoors and outdoors. OBO can offer reliable solutions for every installation challenge in the industrial environment, in order to route and fasten cables safely.

OBO – simply better.

OBO Product Worlds



Industrial installations

- Cable trays
- Mesh cable trays
- Cable ladders
- Industrial ducts
- Support structures
- Electrical installation pipes
- Wiring ducts
- Power supply units
- Distributors
- Junction boxes
- Concealed and cavity wall installations
- Terminals
- Cable glands
- Installation and fastening clips
- Anchors and fastening systems

You can find additional products in our new Building installations and Safety and protective installations catalogues



Building installations

Cable routing and underfloor systems for administrative and functional buildings including architectural solutions

- Electrical installation ducts and trunking
- Device installation ducts and trunking
- Skirting trunking
- Service poles
- Underfloor applications, in screed
- Underfloor applications, in concrete
- Underfloor applications, on-floor
- Service outlets for underfloor applications
- Floor sockets and floor boxes
- Installation housing and support
- Tabletop sockets
- Sockets, switches, data and multimedia technology



Safety and protection installations

Lightning, surge and fire protection systems

- Surge protection
- Explosion protection
- Lightning protection
- Earthing
- Equipotential bonding
- Insulation
- Cable bandages – prevention of the spread of fire
- Escape route installations – false ceiling mounting
- Fire protection ducts
- Systems for the maintenance of electrical functionality – cable-specific routing variants
- Systems for the maintenance of electrical functionality – standard support structures and routing systems
- Systems for the maintenance of electrical functionality – FireBox T series junction boxes
- Anchoring

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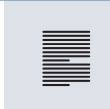
Anchors and fastening systems

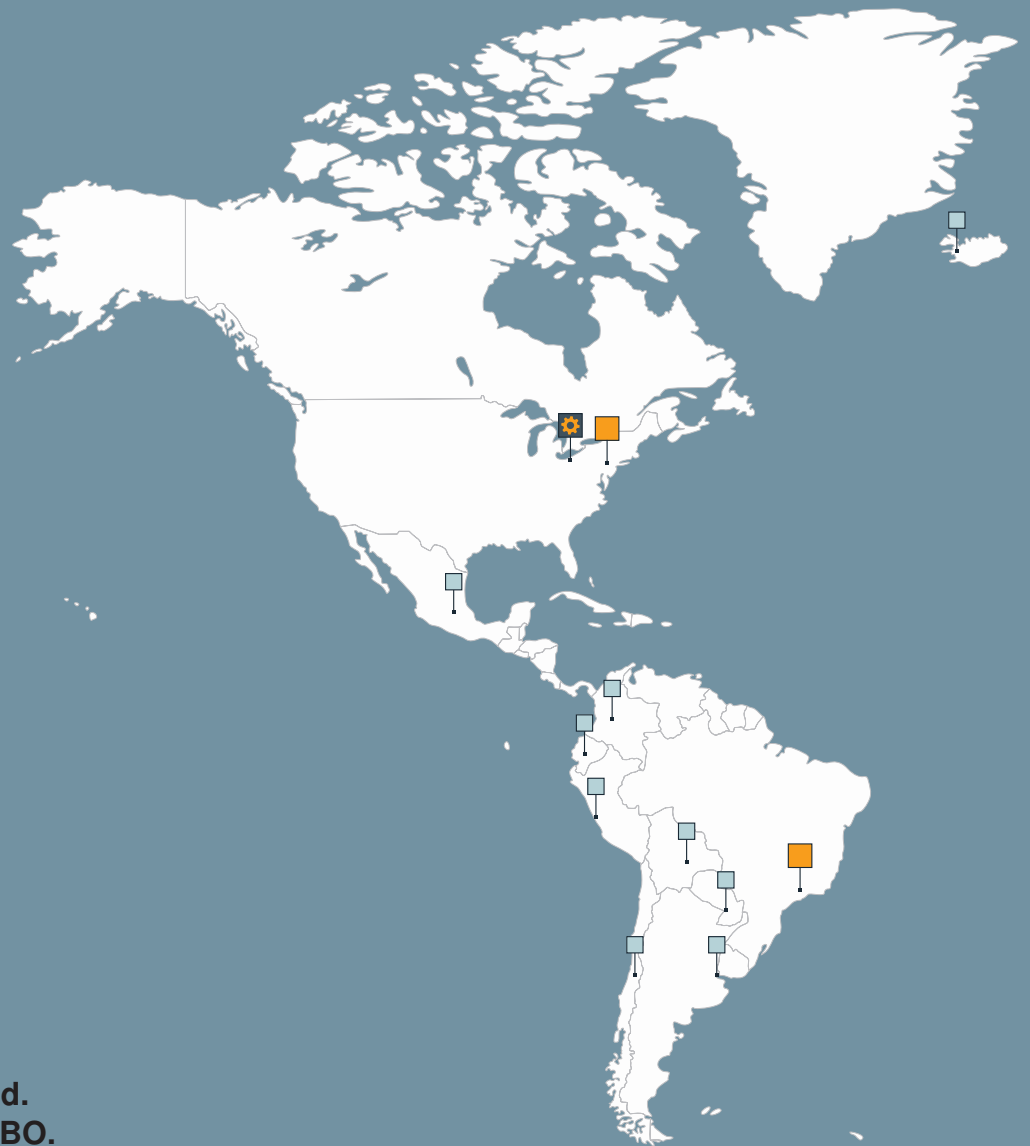
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Directories

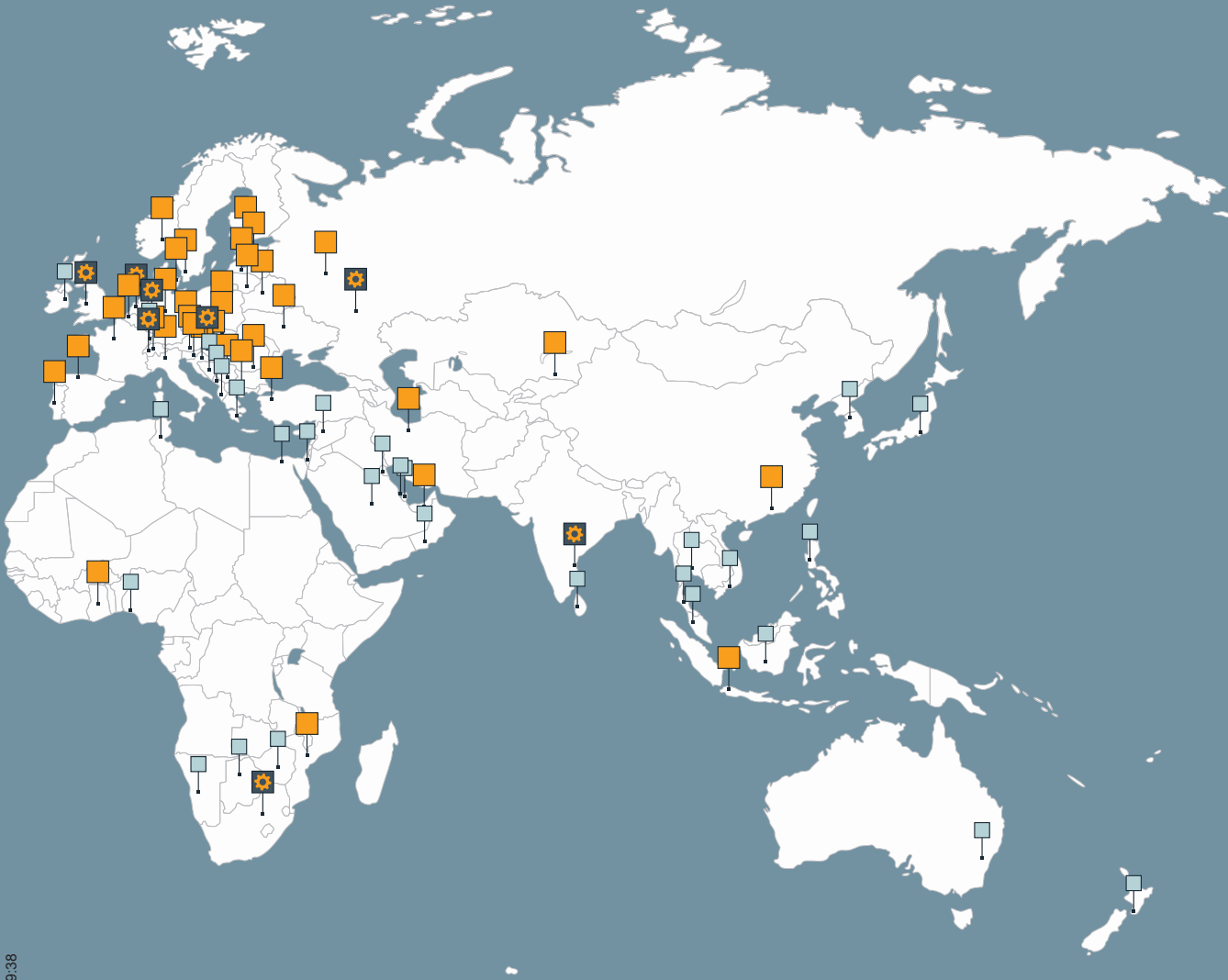
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**Welcome world.
Welcome to OBO.**

New solutions to improve functionality and the ease of installation – OBO employees all around the world use their abilities and creativity to make this happen. Because we know that each individual market has its special characteristics and that the requirements for our products change within each market, we have paid particular attention to the compatibility of products in their place of use. We always offer our customers intelligent, well-thought-out solutions. Our brands always keep this promise. The OBO global team wishes to make the work of electrical planners and operatives around the world as easy as possible.



Production location

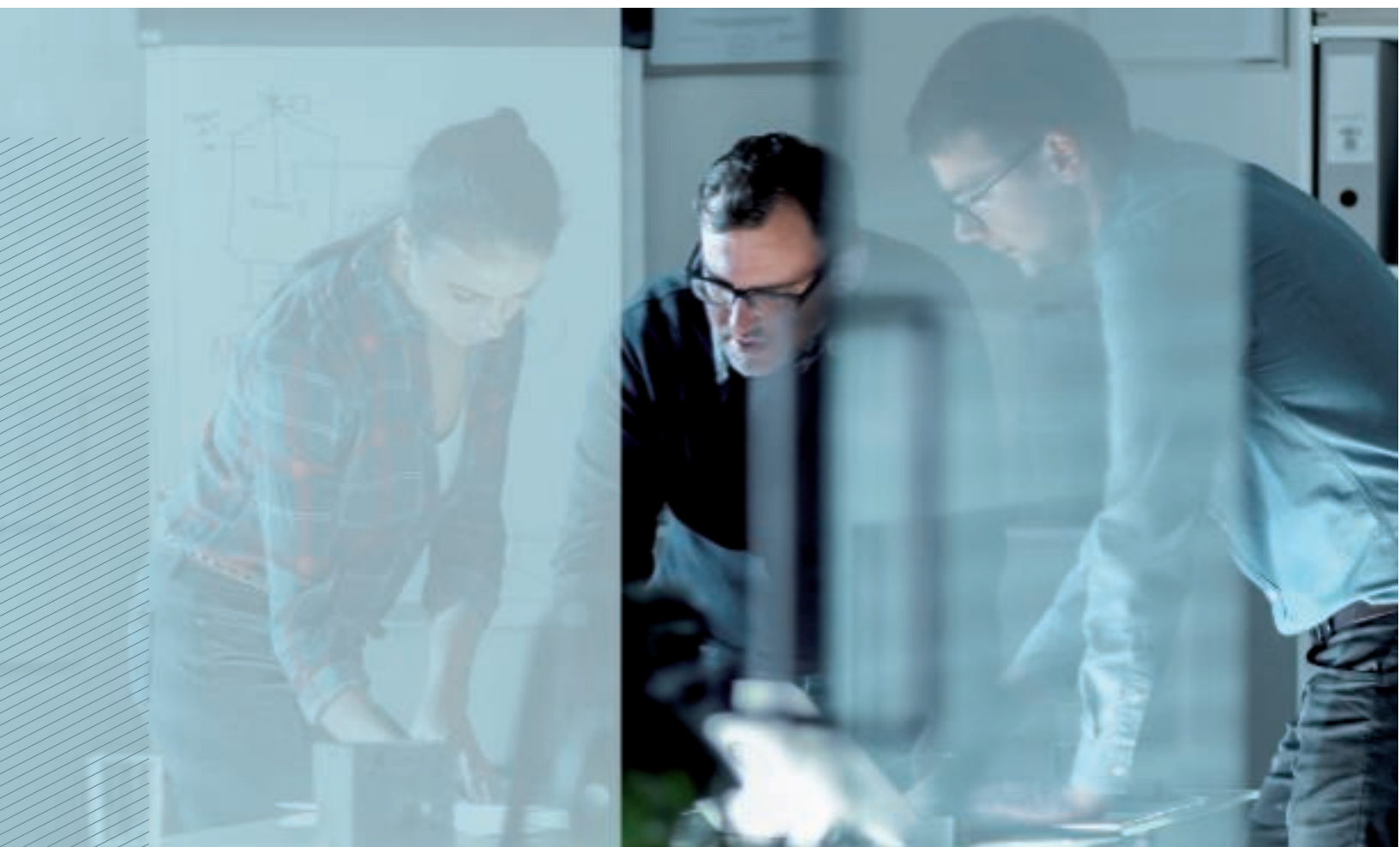


Subsidiary



Representative office

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.

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 also 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.

You can contact our Customer Service department on:

Monday to Friday
08:00 a.m. to 5:00 p.m.

Estonia: +372 6519870

Latvia: +371 67802050

Lithuania: +370 52375911

Estonia: obo@obo.ee

Latvia: obo@obo.lv

Lithuania: obo@obo.lt



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:

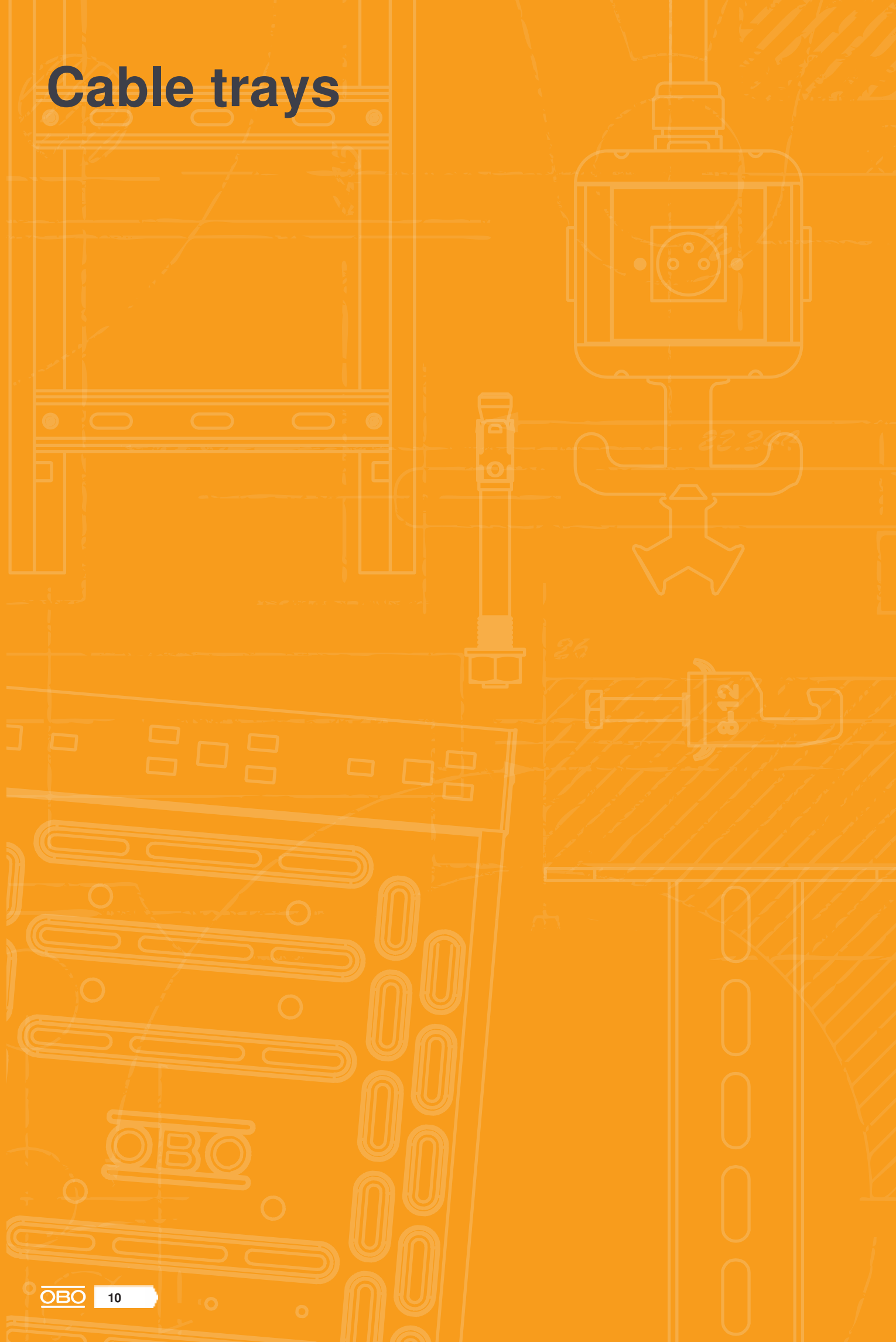
- Reliable logistics
- Practical transport systems and packaging
- Loading gear handling and disposal concepts

Certification and guarantee









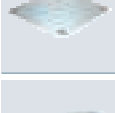


OBO offers safety. Our products fulfil the most important country-specific regulations:

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

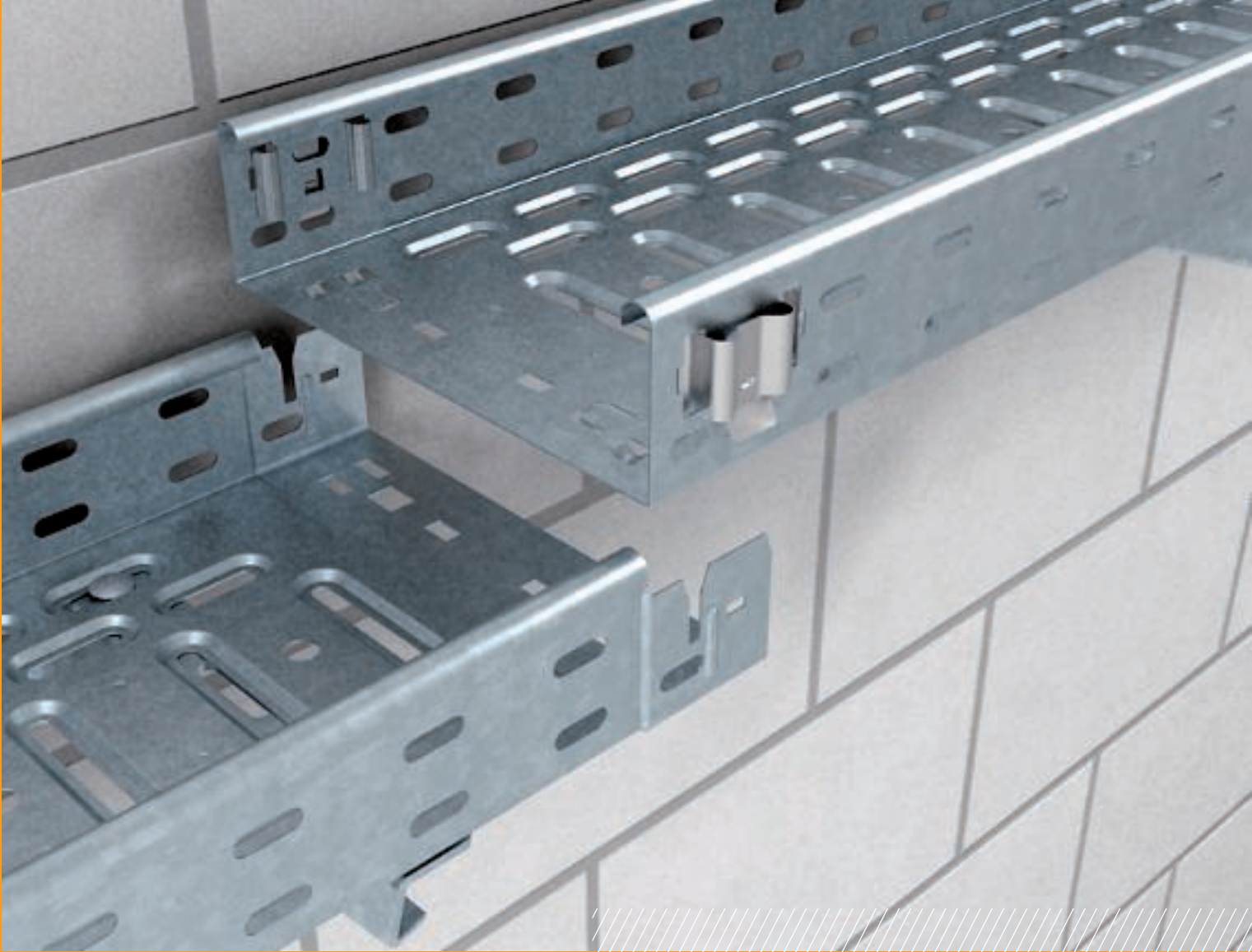
Cable trays



Cable trays

| | | |
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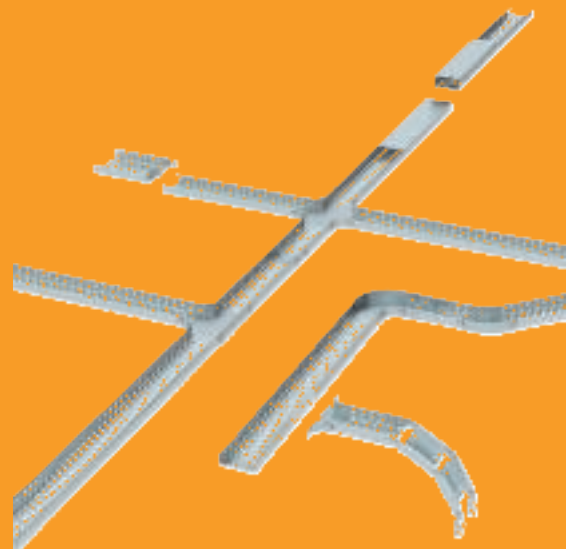




RKS-Magic® cable tray system

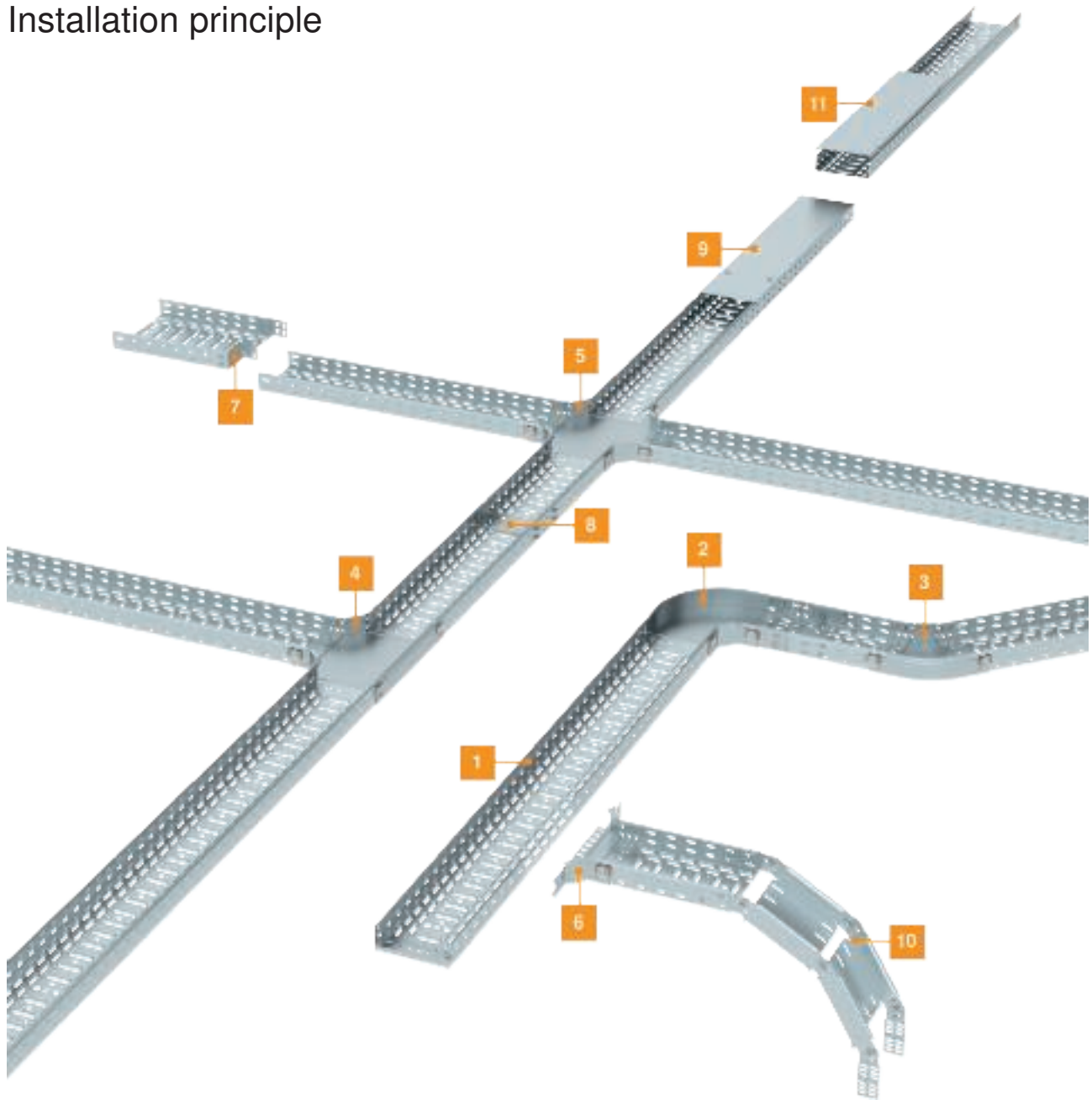
The RKS-Magic® cable tray system permits even faster straight connection of the cable trays. The innovative, screwless straight connector can be mounted in the blink of an eye. Just connect the ends of the cable tray, lock them in place - and you're done!

- 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



RKS-Magic® cable tray system

Installation principle



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

Cable tray RKS-Magic® 35

St FS

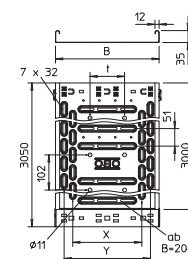


| Type | Width mm | Metal thick- ness mm | Length mm | Weight kg/100 m | Item no. |
|-------------|-------------|-------------------------------|--------------|--------------------|----------|
| RKSM 310 FS | 100 | 0.75 | 3050 | 104.328 | 6047417 |
| RKSM 320 FS | 200 | 0.75 | 3050 | 155.738 | 6047433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

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 y mm | Dim- en- sion mm |
|-------------|--------------|-----------------|--|----------------------|---------------------------|
| RKSM 310 FS | 3050 | 100 | 33 | — | 50 |
| RKSM 320 FS | 3050 | 200 | 68 | 100 | 150 |
| RKSM 330 FS | 3050 | 300 | 103 | 200 | 250 |

Dimensions

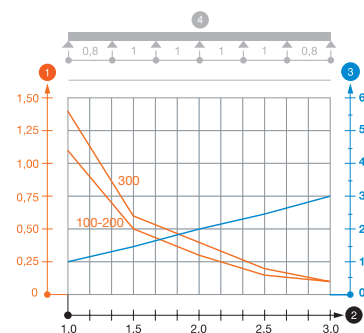


| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|-------------|---------------|---------------|---------------|---------------|---------------|
| RKSM 310 FS | 1.1 | 0.5 | 0.3 | 0.15 | 0.1 |
| RKSM 320 FS | 1.1 | 0.5 | 0.3 | 0.15 | 0.1 |
| RKSM 330 FS | 1.4 | 0.6 | 0.4 | 0.2 | 0.1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

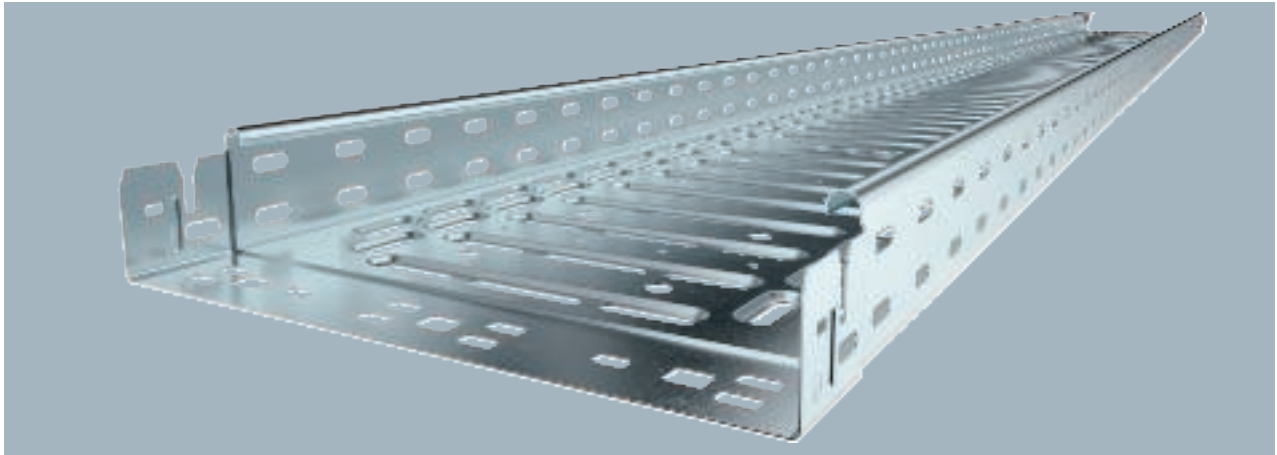
Load

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



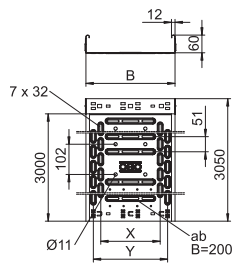
Cable tray RKS-Magic® 60



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.

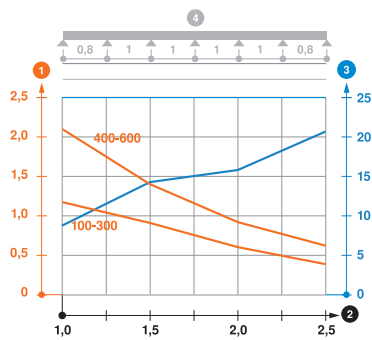
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|----------|--------------------|--------|-----------------|----------|
| RKSM 610 FS | 100 | 0.75 | 3 | 134.334 | 6047611 |
| RKSM 615 FS | 150 | 0.75 | 3 | 154.885 | 6047630 |
| RKSM 620 FS | 200 | 0.75 | 3 | 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 |

Dimensions



| Type | Length mm | Dim. B mm | Usable Dim. cross-section cm² | Dim. x mm | Dim. y mm |
|-------------|-----------|-----------|-------------------------------|-----------|-----------|
| RKSM 610 FS | 3050 | 100 | 58 | — | 50 |
| RKSM 615 FS | 3050 | 150 | 88 | 50 | 100 |
| RKSM 620 FS | 3050 | 200 | 118 | 100 | 150 |
| RKSM 630 FS | 3050 | 300 | 178 | 200 | 250 |
| RKSM 640 FS | 3050 | 400 | 238 | 300 | 350 |
| RKSM 650 FS | 3050 | 500 | 298 | 400 | 450 |
| RKSM 660 FS | 3050 | 600 | 358 | 450 | 550 |

Load



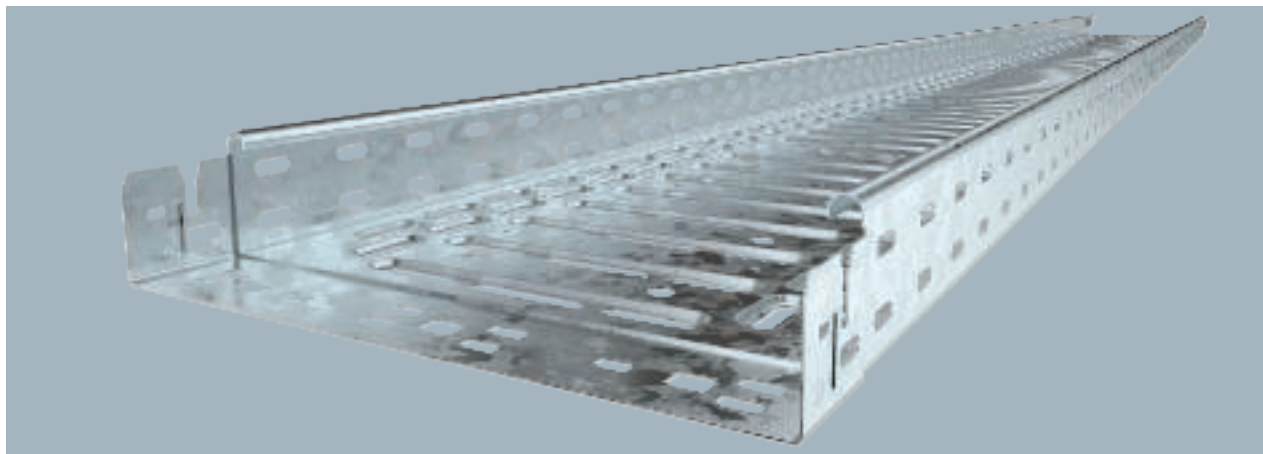
| Type | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | NEMA load class |
|-------------|------------|------------|------------|------------|-----------------|
| RKSM 610 FS | 1.2 | 0.9 | 0.6 | 0.4 | 8AA |
| RKSM 615 FS | 1.2 | 1 | 0.6 | 0.4 | 8AA |
| RKSM 620 FS | 1.2 | 1 | 0.55 | 0.4 | 8AA |
| RKSM 630 FS | 1.2 | 1 | 0.55 | 0.4 | 8AA |
| RKSM 640 FS | 2.1 | 1.35 | 0.8 | 0.6 | 8AA |
| RKSM 650 FS | 2.1 | 1.35 | 0.8 | 0.6 | 8AA |
| RKSM 660 FS | 2.1 | 1.4 | 0.8 | 0.6 | 8AA |

Load diagram, cable tray, type RKSM 60

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

Cable tray RKS-Magic® 60

St FT

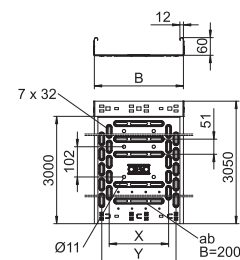


| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|-------------|-------------------------------|-----------|--------------------|----------|
| RKSM 610 FT | 100 | 1.00 | 3 | 197.410 | 6047612 |
| RKSM 615 FT | 150 | 1.00 | 3 | 236.984 | 6047631 |
| RKSM 620 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 |

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.

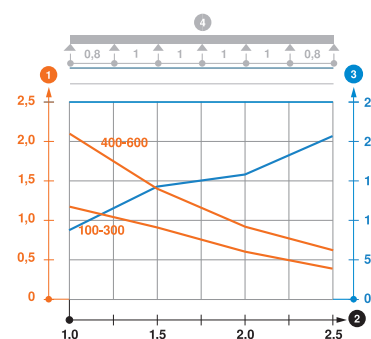
| Type | Length mm | Dim. B mm | Usable cross- section cm ² | Dim. x mm | Dim. y mm |
|-------------|--------------|-----------------|--|-----------------|-----------------|
| RKSM 610 FT | 3050 | 100 | 58 | — | 50 |
| RKSM 615 FT | 3050 | 150 | 88 | 50 | 100 |
| RKSM 620 FT | 3050 | 200 | 118 | 100 | 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 |

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 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 |

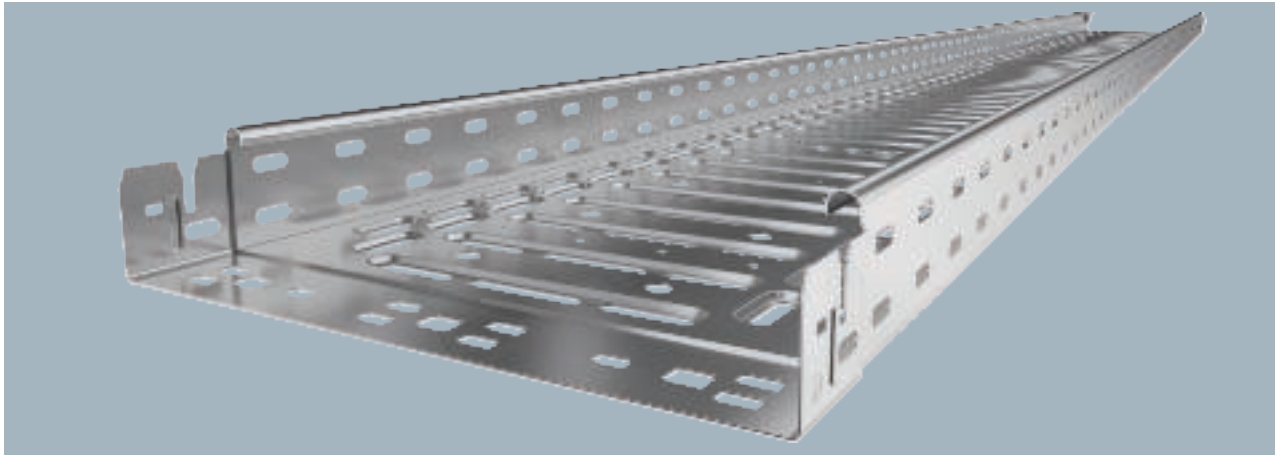
Load



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

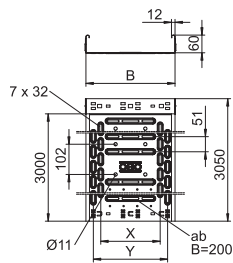
Cable tray RKS-Magic® 60



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.

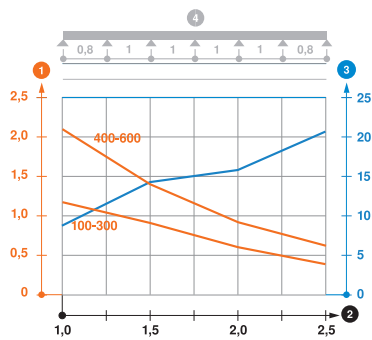
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|----------|--------------------|--------|-----------------|----------|
| RKSM 610 A2 | 100 | 0.75 | 3 | 149.259 | 6047613 |
| RKSM 615 A2 | 150 | 0.75 | 3 | 174.963 | 6047632 |
| RKSM 620 A2 | 200 | 0.75 | 3 | 205.148 | 6047640 |
| RKSM 630 A2 | 300 | 0.75 | 3 | 264.111 | 6047656 |
| RKSM 640 A2 | 400 | 0.90 | 3 | 364.489 | 6047691 |
| RKSM 650 A2 | 500 | 0.90 | 3 | 431.929 | 6047721 |
| RKSM 660 A2 | 600 | 0.90 | 3 | 499.482 | 6047737 |

Dimensions



| 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 615 A2 | 3050 | 150 | 88 | 50 | 100 |
| RKSM 620 A2 | 3050 | 200 | 118 | 100 | 150 |
| RKSM 630 A2 | 3050 | 300 | 178 | 200 | 250 |
| RKSM 640 A2 | 3050 | 400 | 238 | 300 | 350 |
| RKSM 650 A2 | 3050 | 500 | 298 | 400 | 450 |
| RKSM 660 A2 | 3050 | 600 | 358 | 450 | 550 |

Load

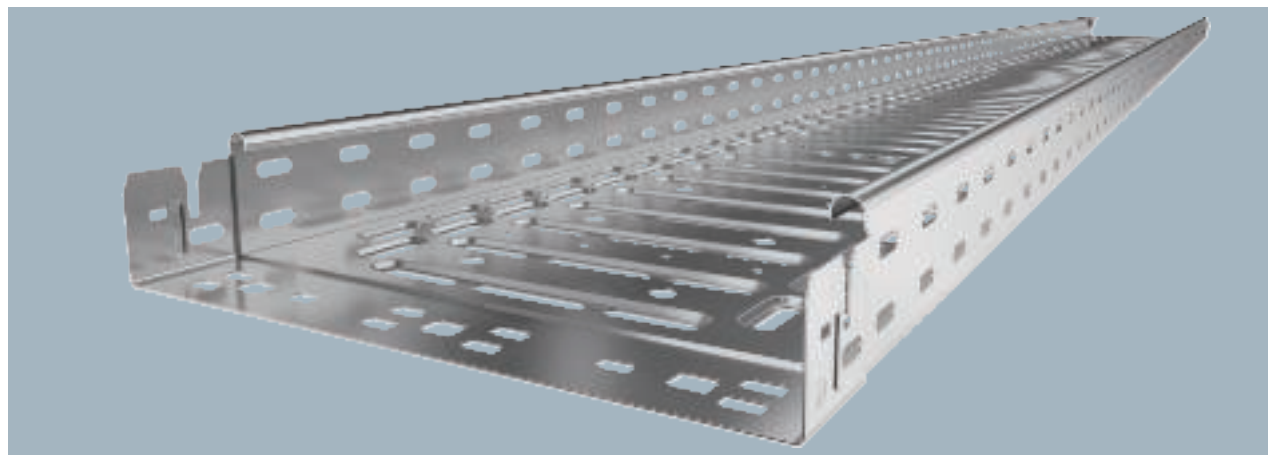


| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|-------------|------------|------------|------------|------------|
| RKSM 610 A2 | 1.2 | 0.9 | 0.6 | 0.4 |
| RKSM 615 A2 | 1.2 | 0.9 | 0.6 | 0.4 |
| RKSM 620 A2 | 1.2 | 0.9 | 0.6 | 0.4 |
| RKSM 630 A2 | 1.2 | 0.9 | 0.6 | 0.4 |
| RKSM 640 A2 | 2.1 | 1.35 | 0.9 | 0.6 |
| RKSM 650 A2 | 2.1 | 1.35 | 0.9 | 0.6 |
| RKSM 660 A2 | 2.1 | 1.35 | 0.9 | 0.6 |

Load diagram, cable tray, type RKSM 60

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

Cable tray RKS-Magic® 60

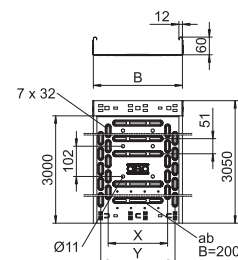


| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|-------------|-------------------------------|-----------|--------------------|----------|
| RKSM 610 A4 | 100 | 0.75 | 3 | 149.259 | 6047614 |
| RKSM 615 A4 | 150 | 0.75 | 3 | 174.963 | 6047633 |
| RKSM 620 A4 | 200 | 0.75 | 3 | 205.148 | 6047641 |
| RKSM 630 A4 | 300 | 0.75 | 3 | 264.111 | 6047657 |
| RKSM 640 A4 | 400 | 0.90 | 3 | 364.489 | 6047692 |
| RKSM 650 A4 | 500 | 0.90 | 3 | 431.929 | 6047722 |
| RKSM 660 A4 | 600 | 0.90 | 3 | 499.482 | 6047738 |

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.

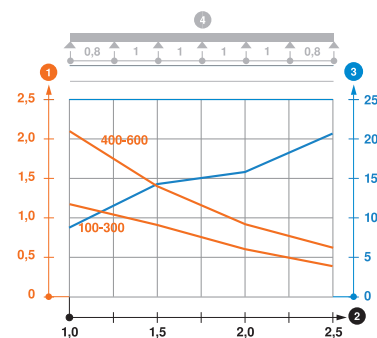
| Type | Length mm | Dim. B mm | Usable cross- section cm ² | Dim. x mm | Dim- en- sion y mm |
|-------------|--------------|-----------------|--|-----------------|--------------------------------|
| RKSM 610 A4 | 3050 | 100 | 58 | — | 50 |
| RKSM 615 A4 | 3050 | 150 | 88 | 50 | 100 |
| RKSM 620 A4 | 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 |

Dimensions



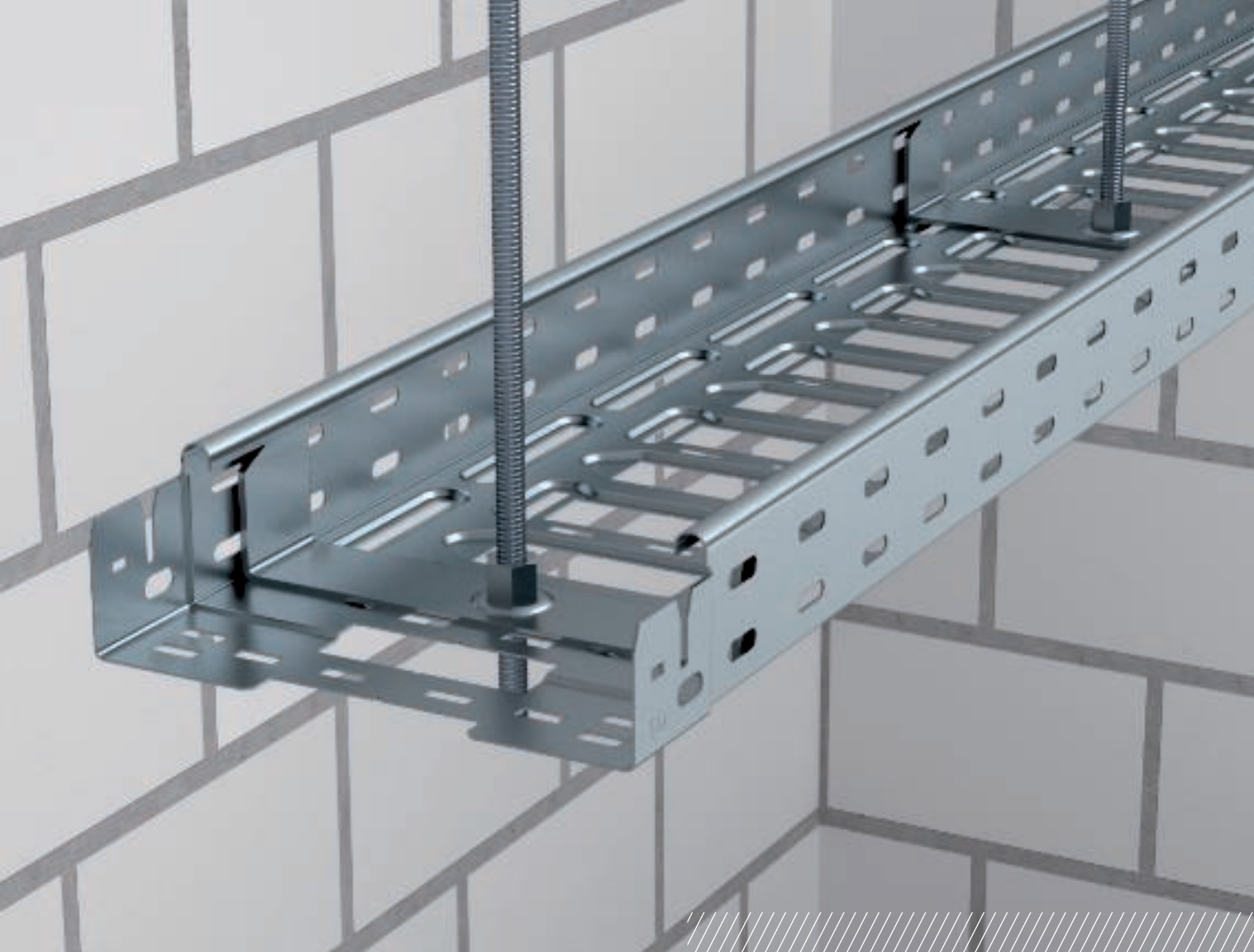
| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|-------------|---------------|---------------|---------------|---------------|
| RKSM 610 A4 | 1.2 | 0.9 | 0.6 | 0.4 |
| RKSM 615 A4 | 1.2 | 0.9 | 0.6 | 0.4 |
| RKSM 620 A4 | 1.2 | 0.9 | 0.6 | 0.4 |
| RKSM 630 A4 | 1.2 | 0.9 | 0.6 | 0.4 |
| RKSM 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



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



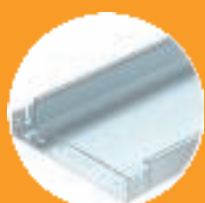
MKS-Magic® cable tray system

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.

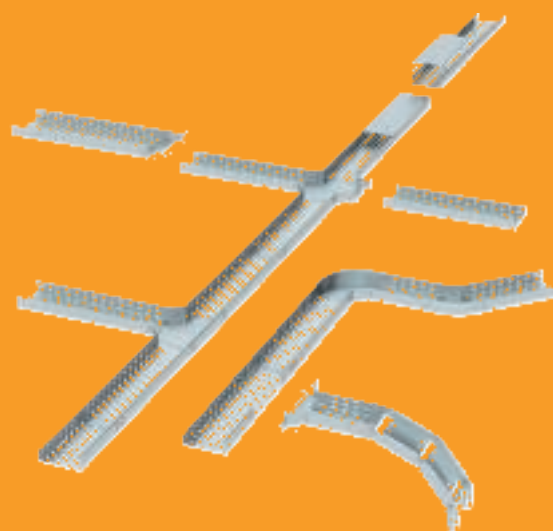
- Snap-in fittings with screwless Magic connection
- Side height 60, 85 and 110 mm



MKS-Magic® cable tray

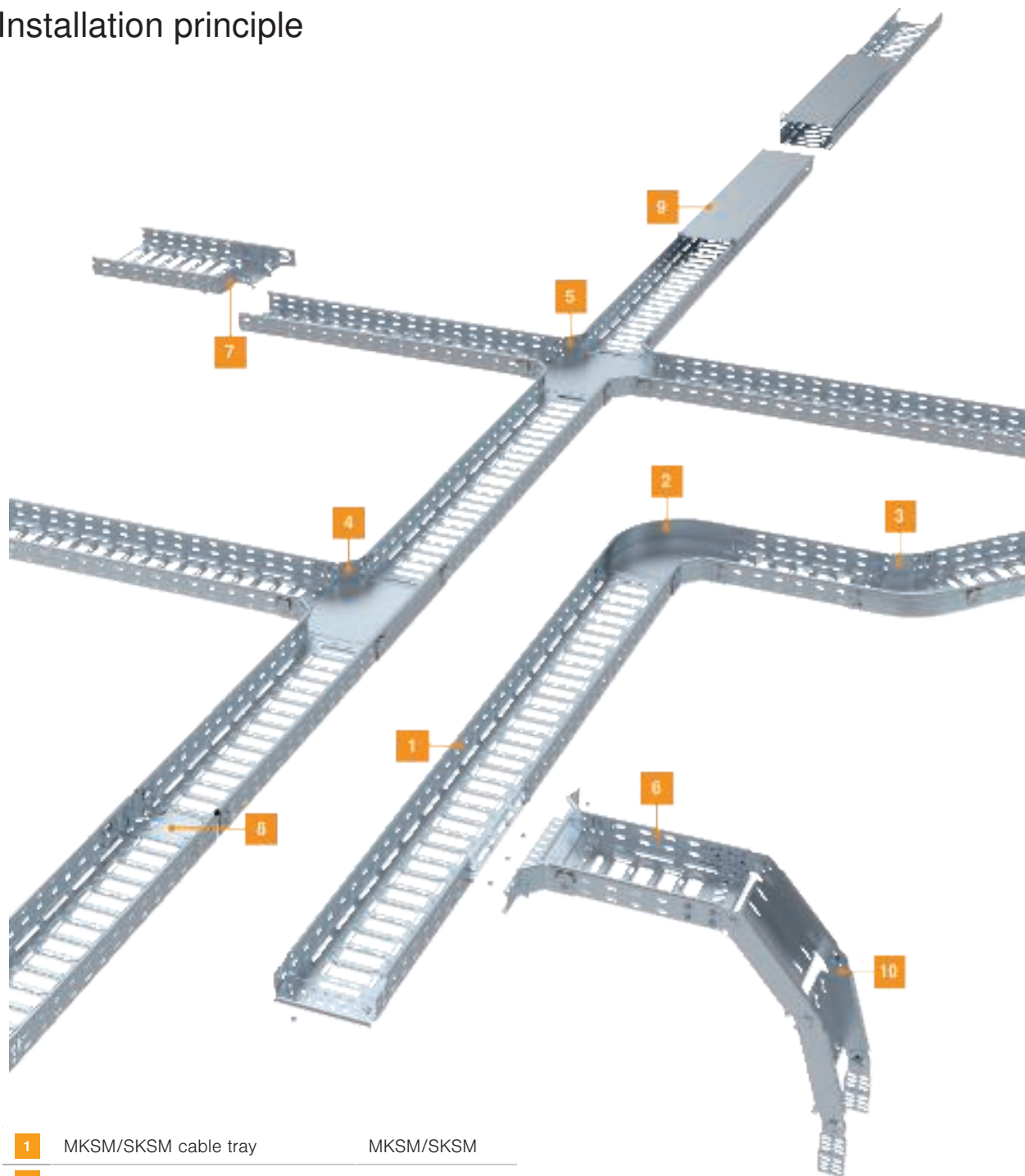


MKS-Magic® cable tray
unperforated



MKS-Magic® cable tray system

Installation principle

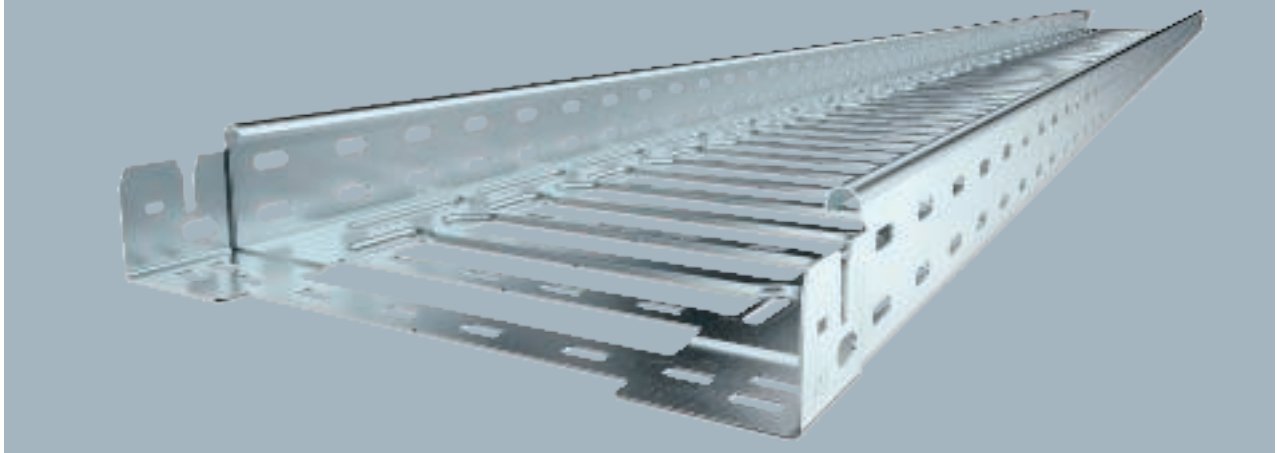


| | | |
|----|------------------------------|-----------|
| 1 | MKSM/SKSM cable tray | MKSM/SKSM |
| 2 | 90° Magic bend | RBM 90 |
| 3 | 45° Magic bend | RBM 45 |
| 4 | Magic T branch piece | RTM |
| 5 | Magic horizontal cross-over | RKM |
| 6 | Magic add-on tee | RAAM M |
| 7 | Reducer/stop-end | RWEB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

St FS



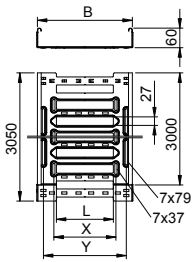
Cable tray MKS-Magic® 60



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.

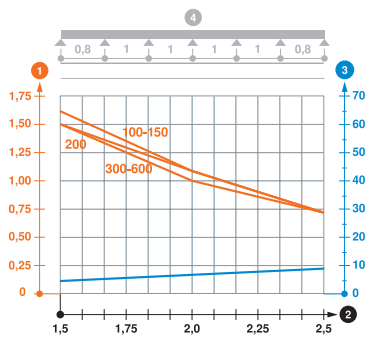
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|----------|--------------------|--------|-----------------|----------|
| MKSM 610 FS | 100 | 1.00 | 3 | 166.032 | 6059000 |
| MKSM 615 FS | 150 | 1.00 | 3 | 200.983 | 6059002 |
| MKSM 620 FS | 200 | 1.00 | 3 | 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 |

Dimensions



| Type | Length mm | Usable Dim. B mm | Usable cross-section cm² | 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 | |

Load



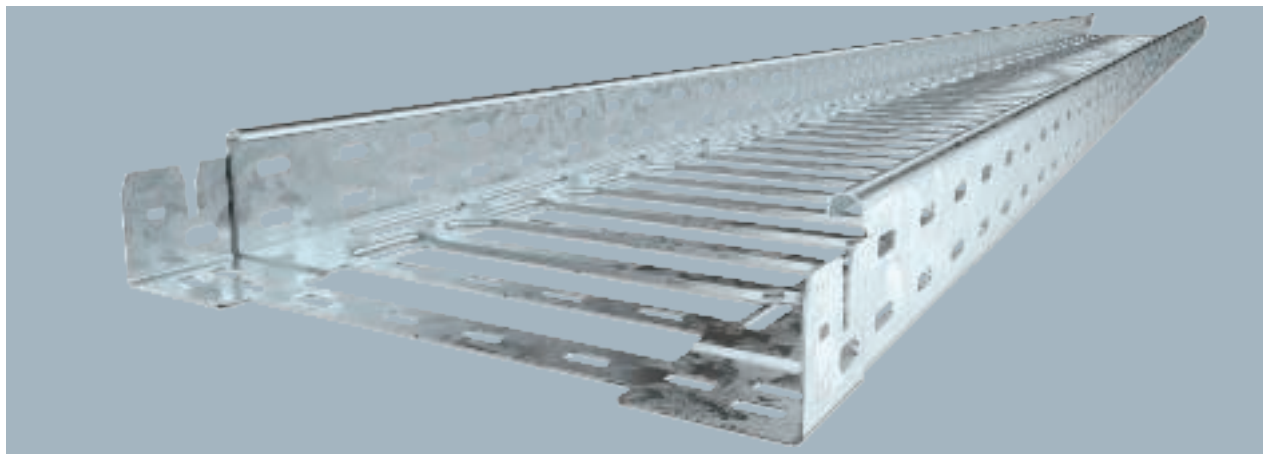
| Type | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|-------------|------------|------------|------------|
| MKSM 610 FS | 1.6 | 1.1 | 0.7 |
| MKSM 615 FS | 1.6 | 1.1 | 0.7 |
| MKSM 620 FS | 1.5 | 1.1 | 0.7 |
| MKSM 630 FS | 1.5 | 1 | 0.7 |
| MKSM 640 FS | 1.5 | 1 | 0.7 |
| MKSM 650 FS | 1.5 | 1 | 0.7 |
| MKSM 660 FS | 1.5 | 1 | 0.7 |

Load diagram, cable tray, type MKSM 60

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

Cable tray MKS-Magic® 60

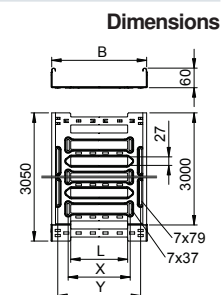
St FT



| Type | Width mm | Metal thick- ness 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 |

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.

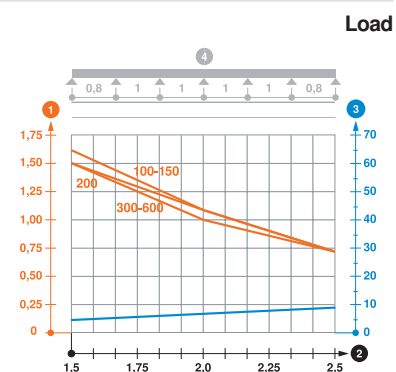
| Type | Length mm | Usable Dim. B mm | cross- section cm ² | Dim. L mm | Dim. x mm | Dim. y mm | Dim- en- sion mm |
|-------------|--------------|---------------------------|--------------------------------------|-----------------|-----------------|-----------------|---------------------------|
| MKSM 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 | |



| | 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

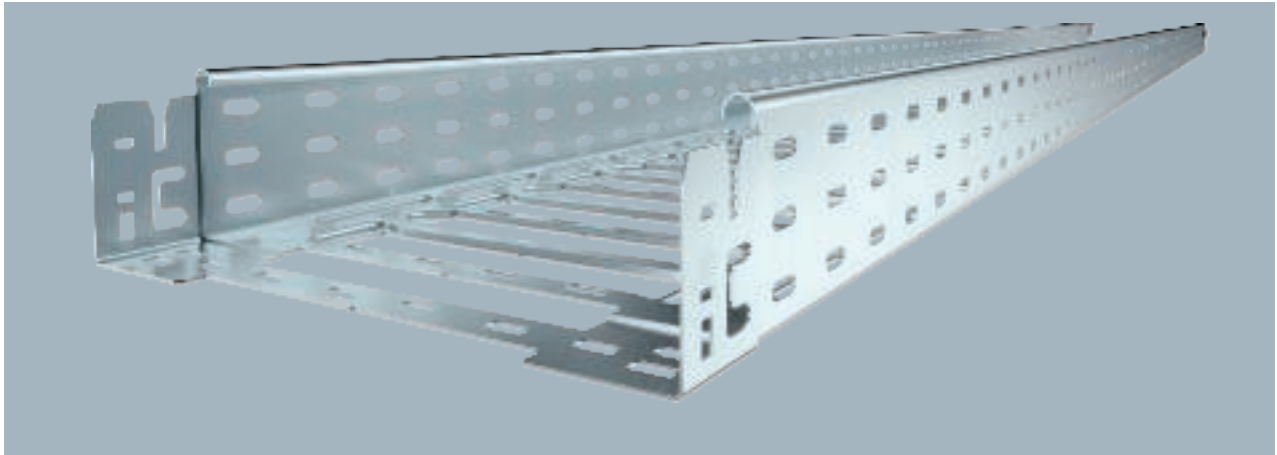
- 1 Permitted cable tray/ladder load in kN/m without man load
- 2 Support width in m
- 3 Rail bend in mm at permitted kN/m
- 4 Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



St FS



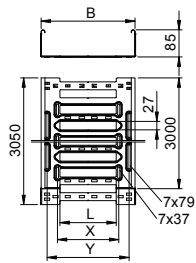
Cable tray MKS-Magic® 85



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.

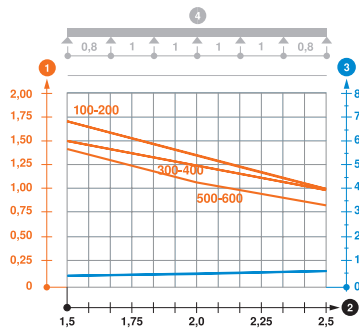
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|----------|--------------------|--------|-----------------|----------|
| MKSM 810 FS | 100 | 1.00 | 3 | 200.000 | 6059080 |
| MKSM 820 FS | 200 | 1.00 | 3 | 254.754 | 6059084 |
| MKSM 830 FS | 300 | 1.00 | 3 | 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 |

Dimensions



| Type | Length mm | Dim. B mm | Usable Dim. cross-section cm² | Dim. L mm | Dim. x mm | Dim. y mm | Dimension 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 | |

Load



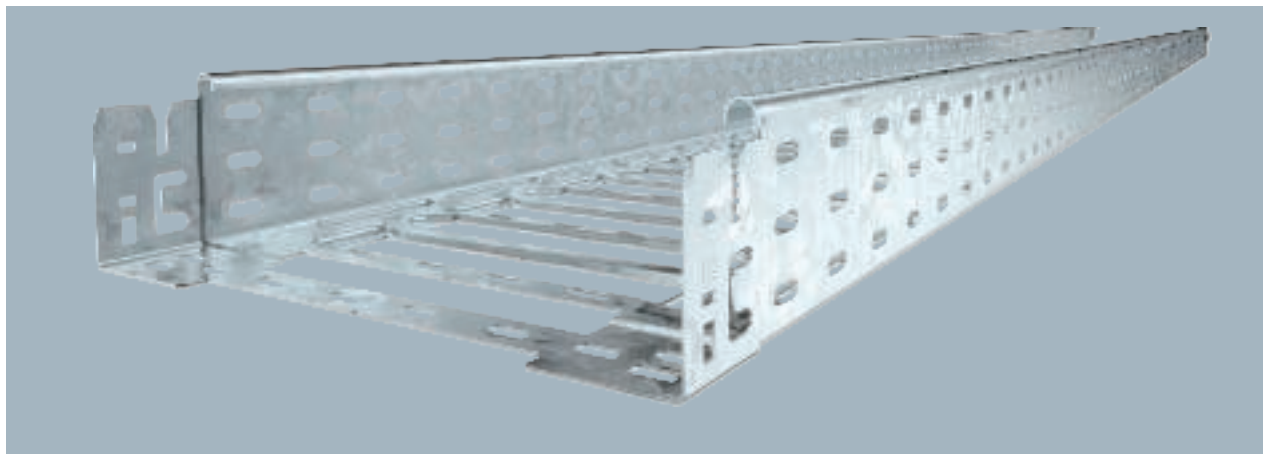
| Type | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|-------------|------------|------------|------------|
| MKSM 810 FS | 1.7 | 1.35 | 1 |
| MKSM 820 FS | 1.7 | 1.35 | 1 |
| MKSM 830 FS | 1.5 | 1.25 | 1 |
| MKSM 840 FS | 1.5 | 1.25 | 1 |
| MKSM 850 FS | 1.4 | 1.1 | 0.85 |
| MKSM 860 FS | 1.4 | 1.1 | 0.85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

Load diagram, cable tray, type MKSM 85

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

Cable tray MKS-Magic® 85

St FT

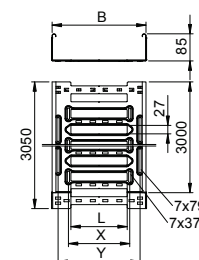


| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|-------------|-------------------------------|-----------|--------------------|----------|
| MKSM 810 FT | 100 | 1.00 | 3 | 218.032 | 6059097 |
| MKSM 820 FT | 200 | 1.00 | 3 | 277.704 | 6059101 |
| MKSM 830 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 |

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.

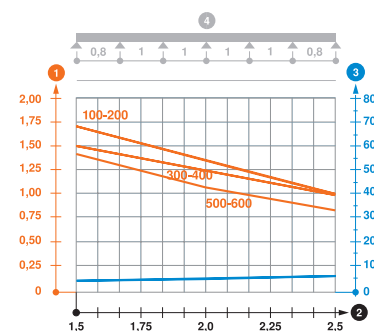
| Type | Length mm | Usable Dim. B mm | cross- section cm ² | Dim. L mm | Dim. x mm | Dim. y mm |
|-------------|--------------|---------------------------|--------------------------------------|-----------------|-----------------|-----------------|
| MKSM 810 FT | 3050 | 100 | 83 | 30 | — | 62 |
| MKSM 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 |

Dimensions



| | 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



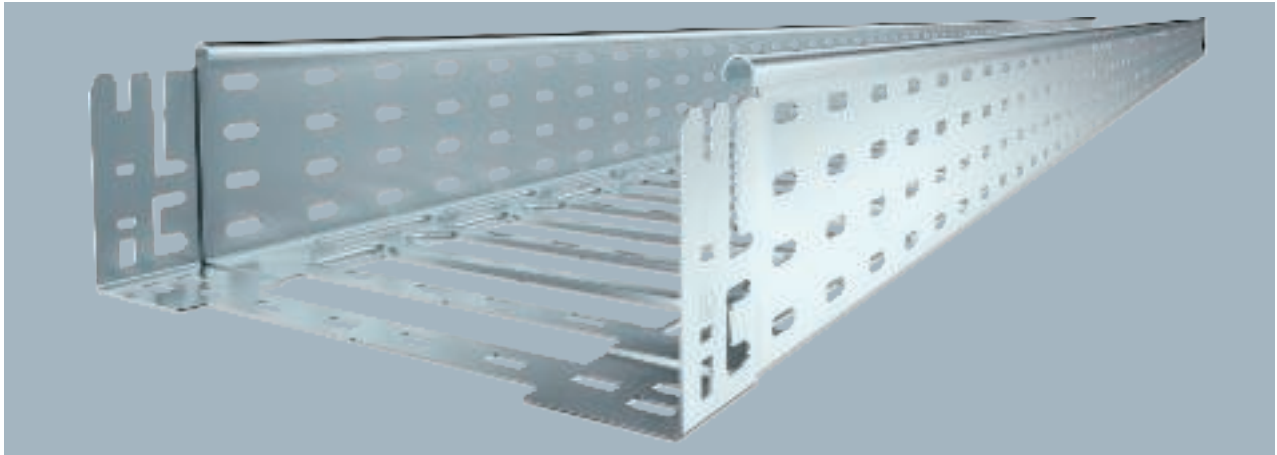
Load diagram, cable tray, type MKSM 85

- 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 FS



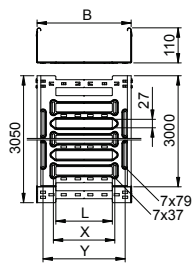
Cable tray MKS-Magic® 110



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.

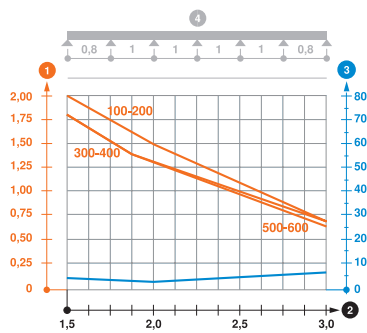
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|----------|--------------------|--------|-----------------|----------|
| MKSM 110 FS | 100 | 1.00 | 3 | 236.819 | 6059156 |
| MKSM 115 FS | 150 | 1.00 | 3 | 274.426 | 6059158 |
| MKSM 120 FS | 200 | 1.00 | 3 | 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 |

Dimensions



| Type | Usable Length mm | Dim. B mm | Usable cross-section cm² | Dim. L mm | Dim. x mm | Dim. y mm | Dim. en- sion 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 | |

Load



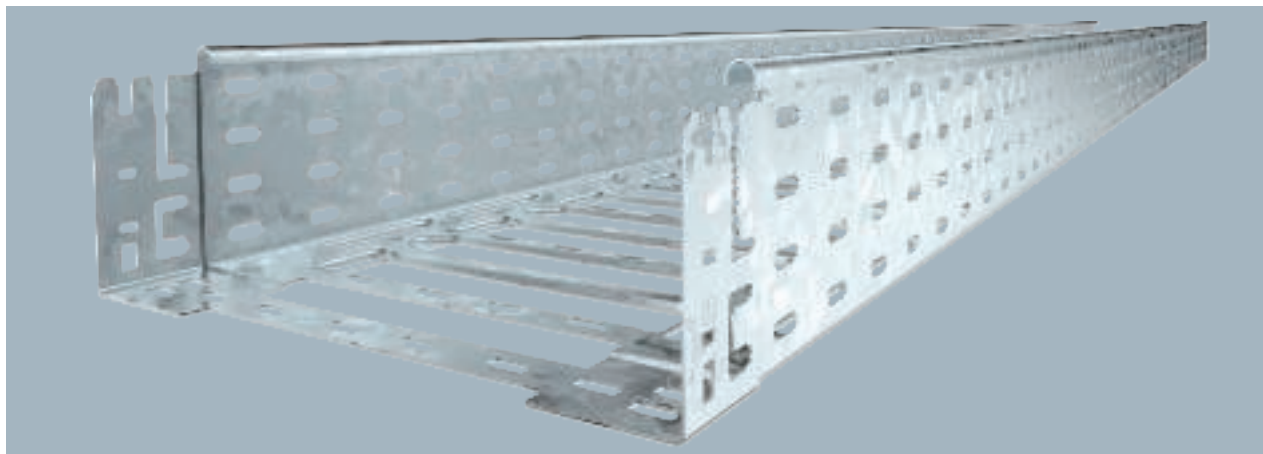
| Type | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m |
|-------------|------------|------------|------------|
| MKSM 110 FS | 2 | 1.5 | 0.7 |
| MKSM 115 FS | 2 | 1.5 | 0.7 |
| MKSM 120 FS | 2 | 1.5 | 0.7 |
| MKSM 130 FS | 1.8 | 1.3 | 0.7 |
| MKSM 140 FS | 1.8 | 1.3 | 0.7 |
| MKSM 150 FS | 1.8 | 1.3 | 0.65 |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

Load diagram, cable tray, type MKSM 110

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

Cable tray MKS-Magic® 110

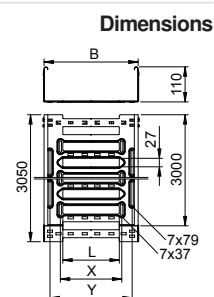
St FT



| Type | Width mm | Metal thick- ness 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 |

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.

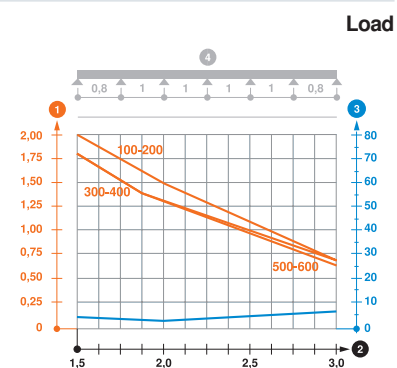
| Type | Length mm | Usable Dim. B mm | cross- section cm ² | Dim. L mm | Dim. x mm | Dim. y mm | Dim- en- sion mm |
|-------------|--------------|---------------------------|--------------------------------------|-----------------|-----------------|-----------------|---------------------------|
| MKSM 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 | |



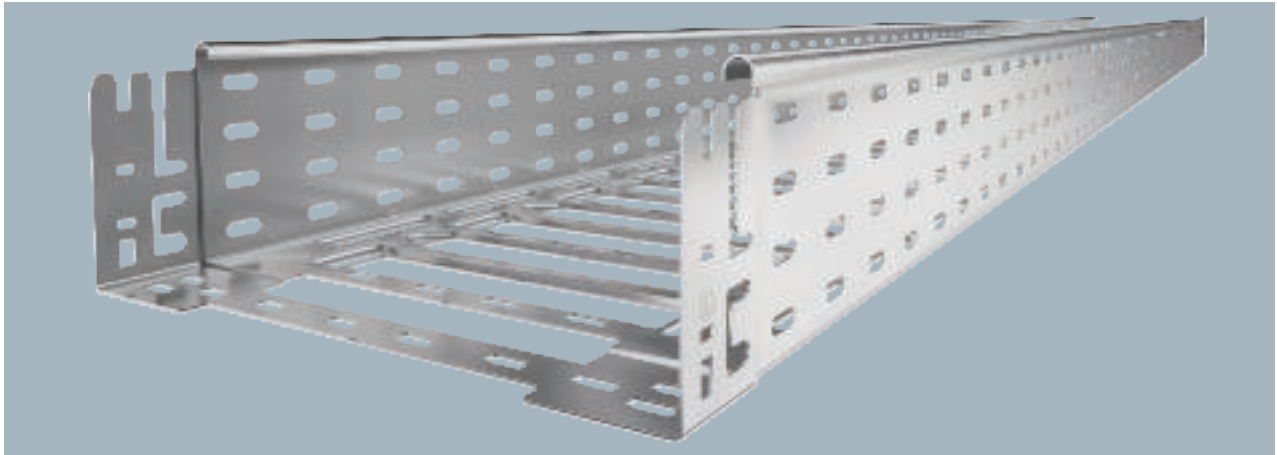
| | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m |
|-------------|---------------|---------------|---------------|
| MKSM 110 FT | 2 | 1.5 | 0.7 |
| MKSM 115 FT | 2 | 1.5 | 0.7 |
| MKSM 120 FT | 2 | 1.5 | 0.7 |
| MKSM 130 FT | 1.8 | 1.3 | 0.7 |
| MKSM 140 FT | 1.8 | 1.3 | 0.7 |
| MKSM 150 FT | 1.8 | 1.3 | 0.65 |
| 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



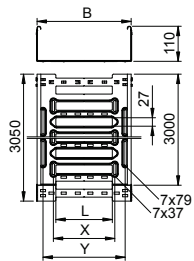
Cable tray MKS-Magic® 110



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.

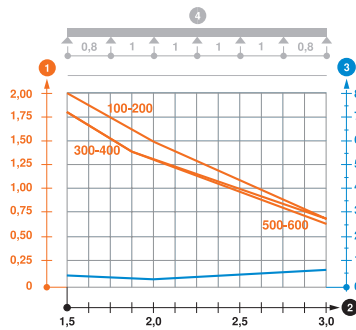
| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|-------------|----------------------------|-----------|--------------------|----------|
| MKSM 110 A2 | 100 | 1.00 | 3 | 240.767 | 6059190 |
| MKSM 120 A2 | 200 | 1.00 | 3 | 298.000 | 6059194 |
| MKSM 130 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 |

Dimensions



| Type | Length mm | Dim. B mm | Usable Dim. 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 |

Load



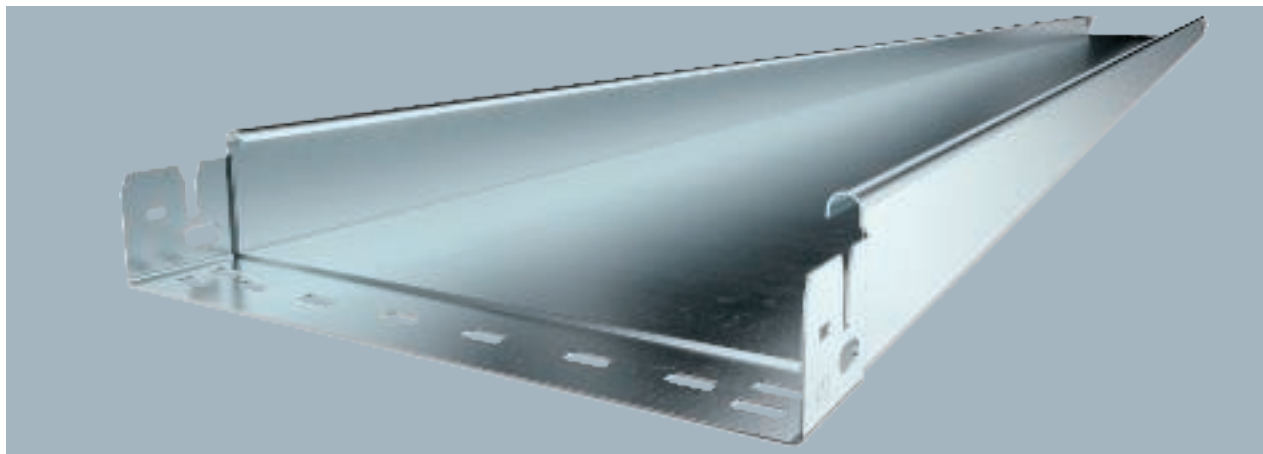
| Type | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m |
|-------------|---------------|---------------|---------------|
| MKSM 110 A2 | 2 | 1.5 | 0.7 |
| MKSM 120 A2 | 2 | 1.5 | 0.7 |
| MKSM 130 A2 | 1.45 | 1.2 | 0.7 |
| MKSM 140 A2 | 1.45 | 1.2 | 0.7 |
| MKSM 150 A2 | 1.1 | 0.95 | 0.65 |
| MKSM 160 A2 | 1.1 | 0.95 | 0.65 |

Load diagram, cable tray, type MKSM 110

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

Cable tray MKS-Magic® 60, unperforated

St FS

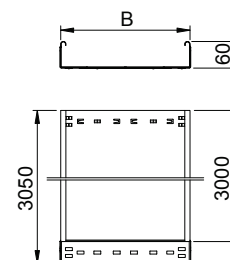


| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|--------------|-------------|-------------------------------|-----------|--------------------|----------|
| MKSMU 610 FS | 100 | 1.00 | 3 | 191.672 | 6059230 |
| MKSMU 615 FS | 150 | 1.00 | 3 | 230.852 | 6059232 |
| MKSMU 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.

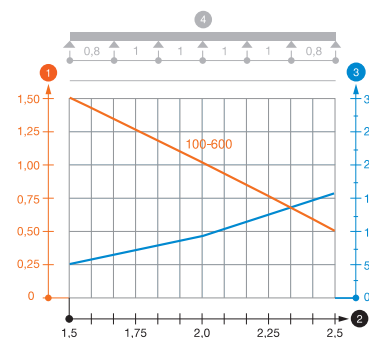
| Type | Length mm | Dim. B mm | Usable cross- section cm ² |
|--------------|--------------|-----------------|--|
| MKSMU 610 FS | 3050 | 100 | 58 |
| MKSMU 615 FS | 3050 | 150 | 88 |
| MKSMU 620 FS | 3050 | 200 | 118 |
| MKSMU 630 FS | 3050 | 300 | 178 |
| MKSMU 640 FS | 3050 | 400 | 238 |
| MKSMU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



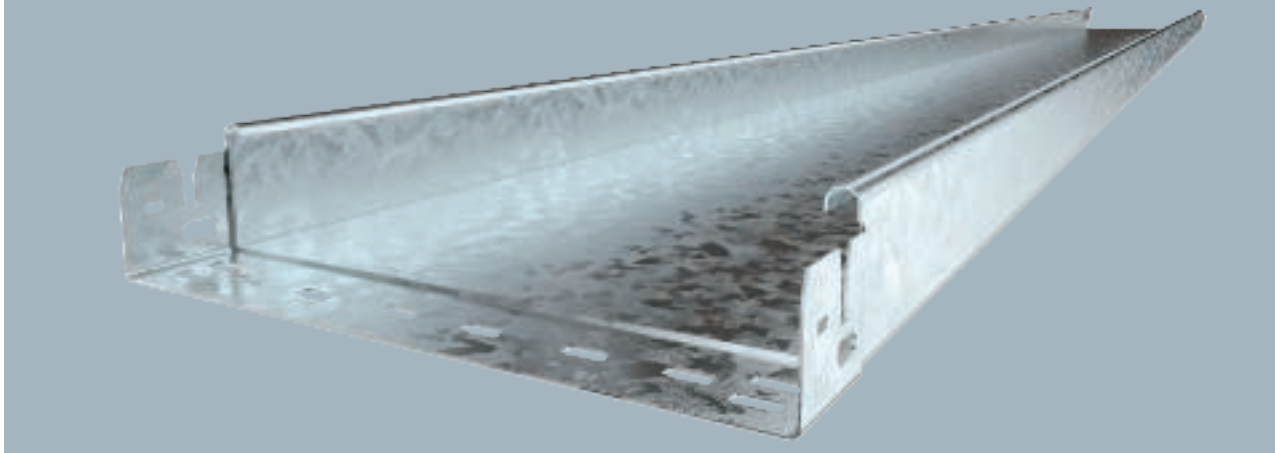
Load diagram, cable tray, type MKSMU 60

- 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



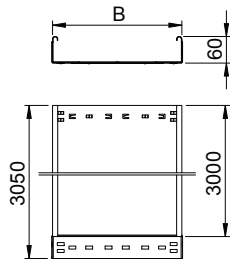
Cable tray MKS-Magic® 60, unperforated



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

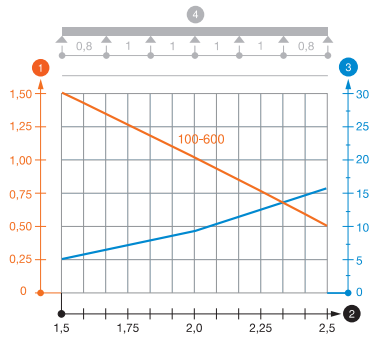
| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|--------------|-------------|-------------------------------|-----------|--------------------|----------|
| MKSMU 610 FT | 100 | 1.00 | 3 | 210.688 | 6059248 |
| MKSMU 615 FT | 150 | 1.00 | 3 | 253.770 | 6059250 |
| MKSMU 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 cm ² |
|--------------|--------------|------------------------|--------------------------------------|
| 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 MKS-Magic® 60, unperforated

VA 2B

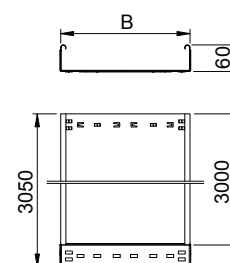


| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|--------------|-------------|-------------------------------|-----------|--------------------|----------|
| MKSMU 610 A2 | 100 | 1.00 | 3 | 194.867 | 6059265 |
| MKSMU 620 A2 | 200 | 1.00 | 3 | 274.500 | 6059269 |
| MKSMU 630 A2 | 300 | 1.00 | 3 | 354.267 | 6059271 |
| MKSMU 640 A2 | 400 | 1.00 | 3 | 434.033 | 6059273 |
| MKSMU 650 A2 | 500 | 1.00 | 3 | 513.733 | 6059275 |
| MKSMU 660 A2 | 600 | 1.00 | 3 | 593.467 | 6059277 |

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

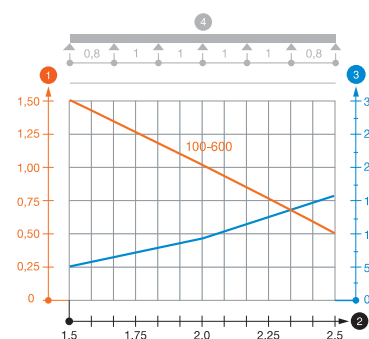
| Type | Length mm | Dim. B mm | Usable cross- section cm ² |
|--------------|--------------|--------------|--|
| MKSMU 610 A2 | 3050 | 100 | 58 |
| MKSMU 620 A2 | 3050 | 200 | 118 |
| MKSMU 630 A2 | 3050 | 300 | 178 |
| MKSMU 640 A2 | 3050 | 400 | 238 |
| MKSMU 650 A2 | 3050 | 500 | 298 |
| MKSMU 660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

Dimensions



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

Load



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 FS

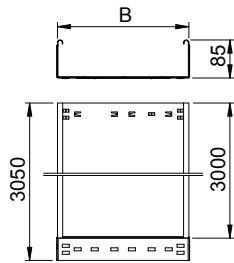
Cable tray MKS-Magic® 85, unperforated



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

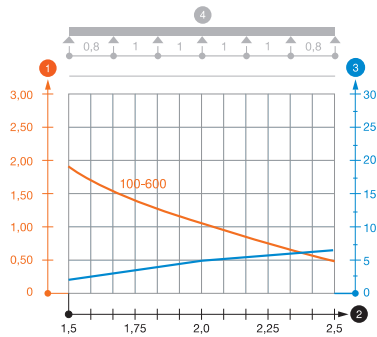
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|--------------|----------|--------------------|--------|-----------------|----------|
| MKSMU 810 FS | 100 | 1.00 | 3 | 230.721 | 6059308 |
| MKSMU 820 FS | 200 | 1.00 | 3 | 309.049 | 6059312 |
| MKSMU 830 FS | 300 | 1.00 | 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 |

Dimensions



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

Load



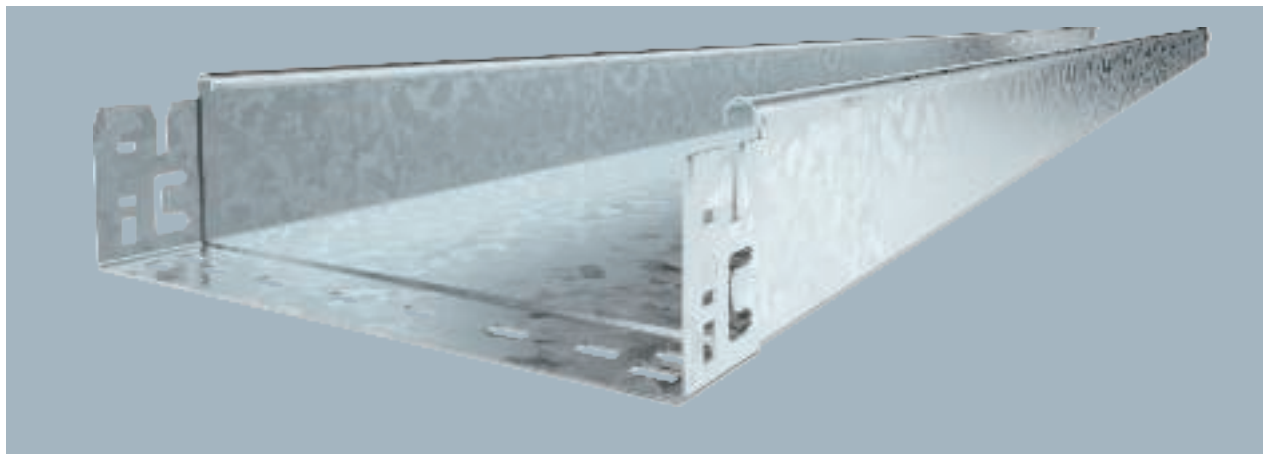
| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|--------------|------------|------------|------------|
| MKSMU 810 FS | 1.75 | 1.1 | 0.5 |
| MKSMU 820 FS | 1.75 | 1.1 | 0.5 |
| MKSMU 830 FS | 1.75 | 1.1 | 0.5 |
| MKSMU 840 FS | 1.75 | 1.1 | 0.5 |
| MKSMU 850 FS | 1.75 | 1.1 | 0.5 |
| MKSMU 860 FS | 1.75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

Load diagram, cable tray, type MKSMU 85

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

Cable tray MKS-Magic® 85, unperforated

St FT

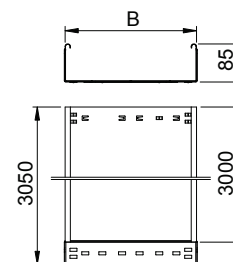


| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|--------------|-------------|-------------------------------|-----------|--------------------|----------|
| MKSMU 810 FT | 100 | 1.00 | 3 | 253.606 | 6059325 |
| MKSMU 820 FT | 200 | 1.00 | 3 | 339.737 | 6059329 |
| MKSMU 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 |

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

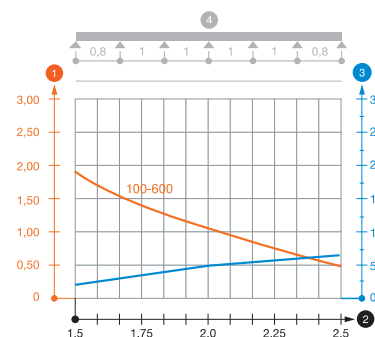
| Type | Length mm | Usable Dim. B mm | cross- section cm ² |
|--------------|--------------|------------------------|--------------------------------------|
| MKSMU 810 FT | 3050 | 100 | 83 |
| MKSMU 820 FT | 3050 | 200 | 186 |
| MKSMU 830 FT | 3050 | 300 | 253 |
| MKSMU 840 FT | 3050 | 400 | 338 |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

Dimensions



| | 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



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 FS



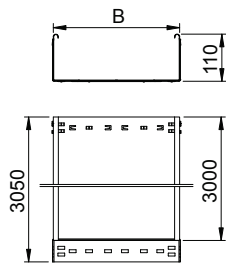
Cable tray MKS-Magic® 110, unperforated



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

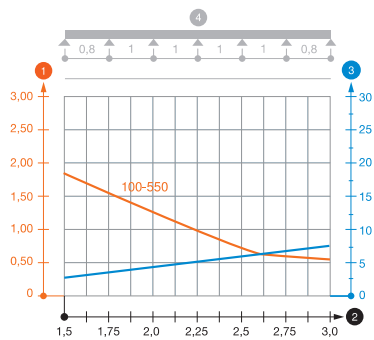
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|--------------|----------|--------------------|--------|-----------------|----------|
| MKSMU 110 FS | 100 | 1.00 | 3 | 269.672 | 6059382 |
| MKSMU 115 FS | 150 | 1.00 | 3 | 308.885 | 6059384 |
| MKSMU 120 FS | 200 | 1.00 | 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 cm ² |
|--------------|-----------|------------------|-------------------------------|
| MKSMU 110 FS | 3050 | 100 | 108 |
| MKSMU 115 FS | 3050 | 150 | 161 |
| MKSMU 120 FS | 3050 | 200 | 218 |
| MKSMU 130 FS | 3050 | 300 | 328 |
| MKSMU 140 FS | 3050 | 400 | 438 |
| MKSMU 150 FS | 3050 | 500 | 548 |
| MKSMU 160 FS | 3050 | 600 | 655 |

Load



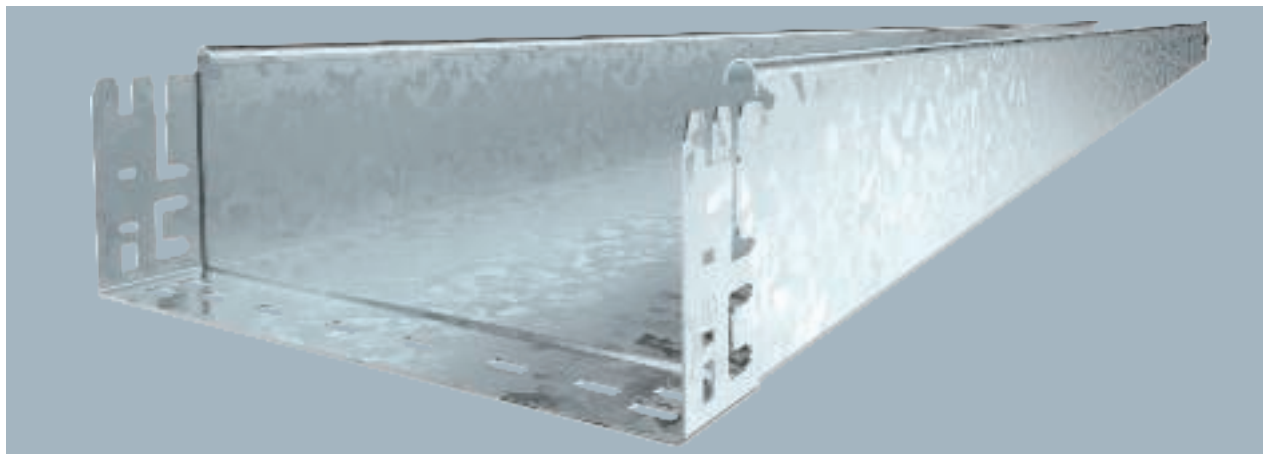
| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|--------------|------------|------------|------------|------------|
| MKSMU 110 FS | 1.85 | 1.3 | 0.75 | 0.6 |
| MKSMU 115 FS | 1.85 | 1.3 | 0.75 | 0.6 |
| MKSMU 120 FS | 1.85 | 1.3 | 0.75 | 0.6 |
| MKSMU 130 FS | 1.85 | 1.3 | 0.75 | 0.6 |
| MKSMU 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

St FT

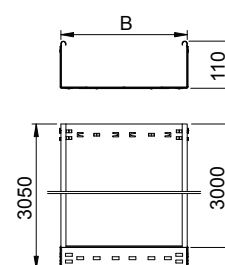


| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|--------------|-------------|-------------------------------|-----------|--------------------|----------|
| MKSMU 110 FT | 100 | 1.00 | 3 | 296.459 | 6059399 |
| MKSMU 115 FT | 150 | 1.00 | 3 | 339.540 | 6059401 |
| MKSMU 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 |

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

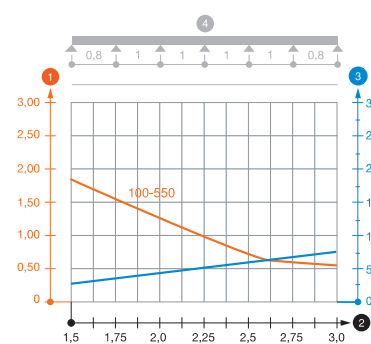
| Type | Length mm | Width mm | Usable cross- section cm ² |
|--------------|--------------|-------------|--|
| MKSMU 110 FT | 3050 | 100 | 108 |
| MKSMU 115 FT | 3050 | 150 | 161 |
| MKSMU 120 FT | 3050 | 200 | 218 |
| MKSMU 130 FT | 3050 | 300 | 328 |
| MKSMU 140 FT | 3050 | 400 | 438 |
| MKSMU 150 FT | 3050 | 500 | 548 |
| MKSMU 160 FT | 3050 | 600 | 655 |

Dimensions



| | 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



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

VA 2B



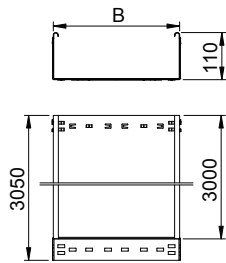
Cable tray MKS-Magic® 110, unperforated



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

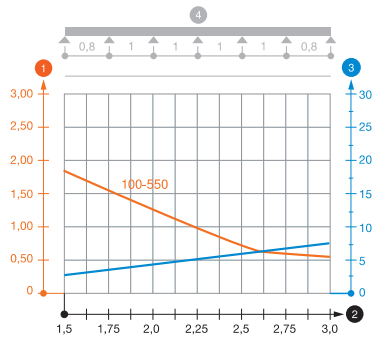
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|--------------|----------|--------------------|--------|-----------------|----------|
| MKSMU 110 A2 | 100 | 1.00 | 3 | 274.167 | 6059416 |
| MKSMU 120 A2 | 200 | 1.00 | 3 | 353.833 | 6059420 |
| MKSMU 130 A2 | 300 | 1.00 | 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 |

Dimensions



| Type | Usable Length mm | Dim. B mm | cross-section cm² |
|--------------|------------------|-----------|-------------------|
| 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 |

Load



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

Load diagram, cable tray, type MKSMU 110

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



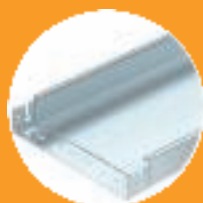
SKS-Magic® cable tray system

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.

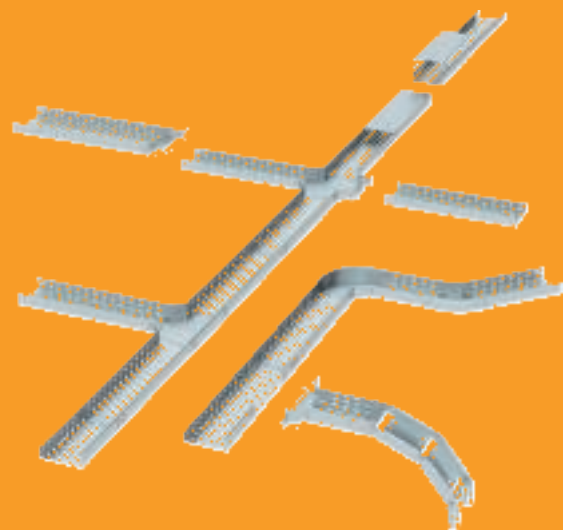
- Snap-in fittings with screwless Magic connection
- Side height 60, 85 and 110 mm



Cable tray SKS-Magic®

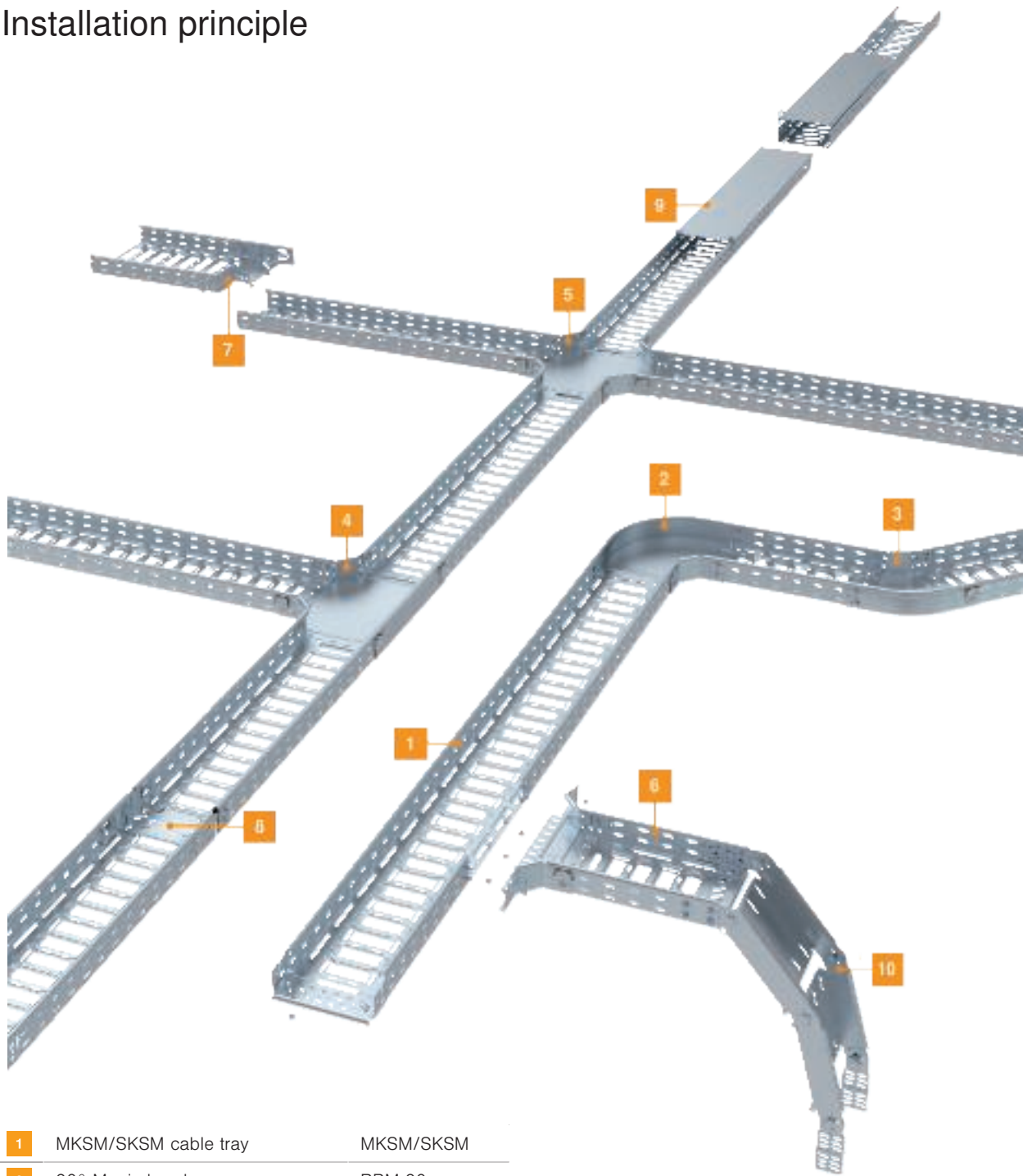


Cable tray SKS-Magic®
unperforated



SKS-Magic® cable tray system

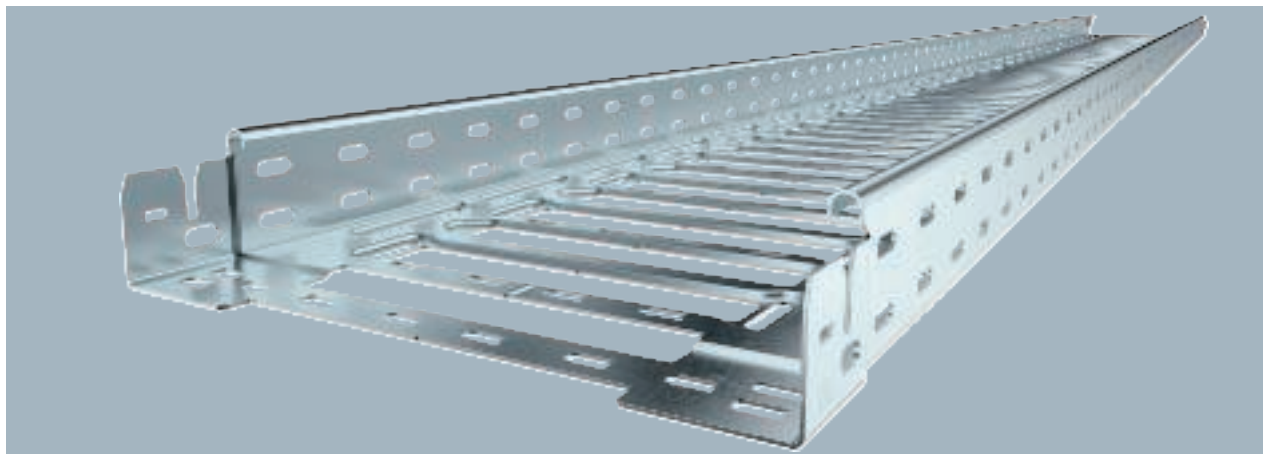
Installation principle



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

Cable tray SKS-Magic® 60

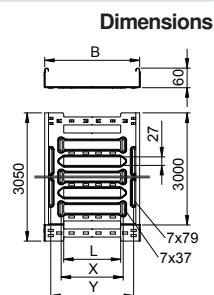
St FS



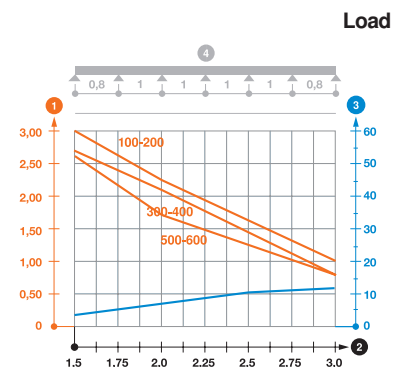
| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|-------------|-------------------------------|-----------|--------------------|----------|
| SKSM 610 FS | 100 | 1.50 | 3 | 249.573 | 6059456 |
| SKSM 615 FS | 150 | 1.50 | 3 | 301.639 | 6059458 |
| SKSM 620 FS | 200 | 1.50 | 3 | 329.180 | 6059460 |
| SKSM 630 FS | 300 | 1.50 | 3 | 385.245 | 6059462 |
| SKSM 640 FS | 400 | 1.50 | 3 | 441.311 | 6059464 |
| SKSM 650 FS | 500 | 1.50 | 3 | 504.852 | 6059466 |
| SKSM 660 FS | 600 | 1.50 | 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 | Usable Dim. B mm | cross- section cm ² | Dim. L mm | Dim. x mm | Dim. y mm |
|-------------|--------------|------------------------|--------------------------------------|--------------|--------------|--------------|
| SKSM 610 FS | 3050 | 100 | 58 | 30 | — | 62 |
| SKSM 615 FS | 3050 | 150 | 88 | 30 | 46 | 112 |
| SKSM 620 FS | 3050 | 200 | 118 | 80 | 96 | 162 |
| SKSM 630 FS | 3050 | 300 | 178 | 180 | 196 | 262 |
| SKSM 640 FS | 3050 | 400 | 238 | 280 | 296 | 362 |
| SKSM 650 FS | 3050 | 500 | 298 | 380 | 396 | 462 |
| SKSM 660 FS | 3050 | 600 | 358 | 480 | 496 | 562 |



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



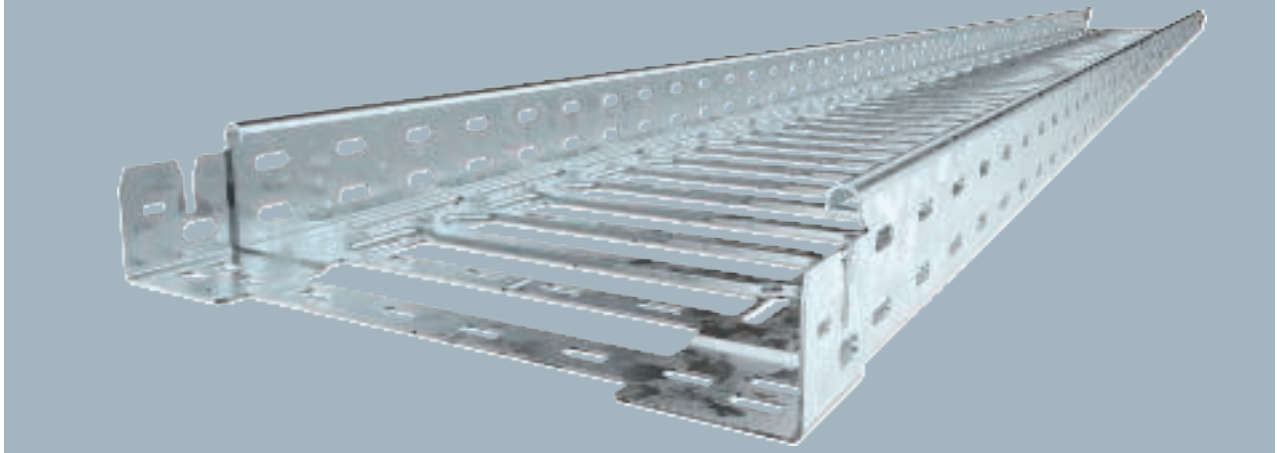
Load diagram, cable tray, type SKSM 60

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

St FT



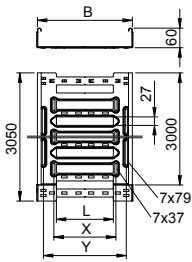
Cable tray SKS-Magic® 60



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.

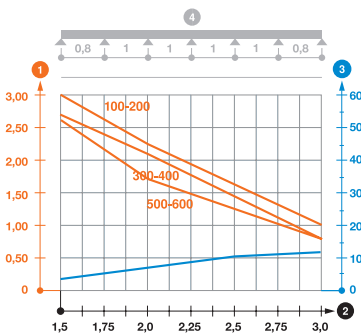
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|----------|--------------------|--------|-----------------|----------|
| SKSM 610 FT | 100 | 1.50 | 3 | 266.098 | 6059473 |
| SKSM 615 FT | 150 | 1.50 | 3 | 328.852 | 6059475 |
| SKSM 620 FT | 200 | 1.50 | 3 | 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 | Dim. B mm | Usable cross-section cm² | Dim. L mm | Dim. x mm | Dim. y mm | Dimension 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



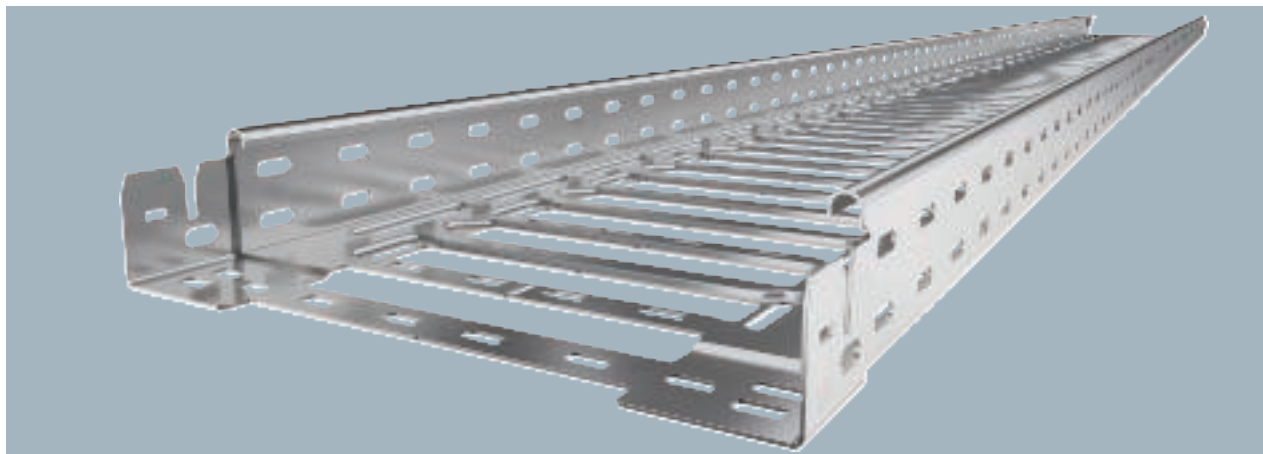
| Type | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m |
|-------------|------------|------------|------------|
| SKSM 610 FT | 3 | 2.25 | 1 |
| SKSM 615 FT | 3 | 2.25 | 1 |
| SKSM 620 FT | 3 | 2.25 | 1 |
| SKSM 630 FT | 2.7 | 2.1 | 0.8 |
| SKSM 640 FT | 2.7 | 2.1 | 0.8 |
| SKSM 650 FT | 2.6 | 1.8 | 0.8 |
| SKSM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

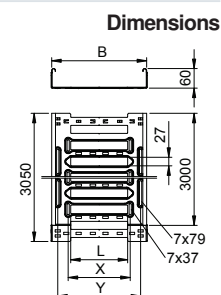
VA 2B



| Type | Width mm | Metal thick- ness 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.

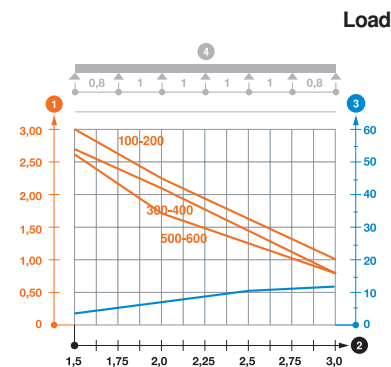
| Type | Length mm | Dim. B mm | Usable cross- section cm ² | Dim. L mm | Dim. x mm | Dim. y mm | Dim- en- sion |
|-------------|--------------|-----------------|--|-----------------|-----------------|-----------------|---------------------|
| SKSM 610 A2 | 3050 | 100 | 58 | 30 | — | 62 | |
| SKSM 620 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 | |



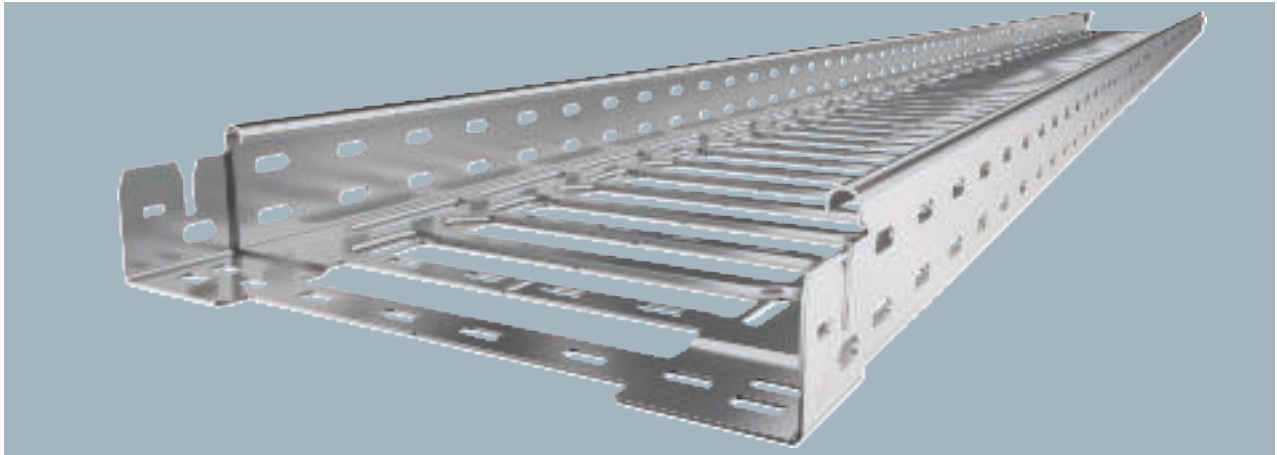
| | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m |
|-------------|---------------|---------------|---------------|
| SKSM 610 A2 | 3 | 2.25 | 1 |
| SKSM 620 A2 | 3 | 2.25 | 1 |
| SKSM 630 A2 | 2.7 | 2.1 | 0.8 |
| SKSM 640 A2 | 2.7 | 2.1 | 0.8 |
| SKSM 650 A2 | 1.9 | 1.55 | 0.8 |
| SKSM 660 A2 | 1.9 | 1.55 |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

Load diagram, cable tray, type SKSM 60

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



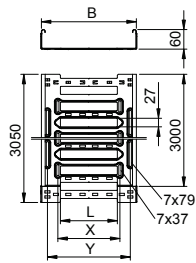
Cable tray SKS-Magic® 60



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.

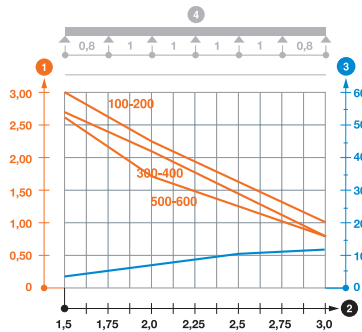
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|----------|--------------------|--------|-----------------|----------|
| SKSM 610 A4 | 100 | 1.50 | 3 | 253.733 | 6059507 |
| SKSM 620 A4 | 200 | 1.50 | 3 | 337.000 | 6059511 |
| SKSM 630 A4 | 300 | 1.50 | 3 | 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 cm² | Dim. L mm | Dim. x mm | Dim. y mm | Dimension |
|-------------|-----------|------------------|-------------------|-----------|-----------|-----------|-----------|
| 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



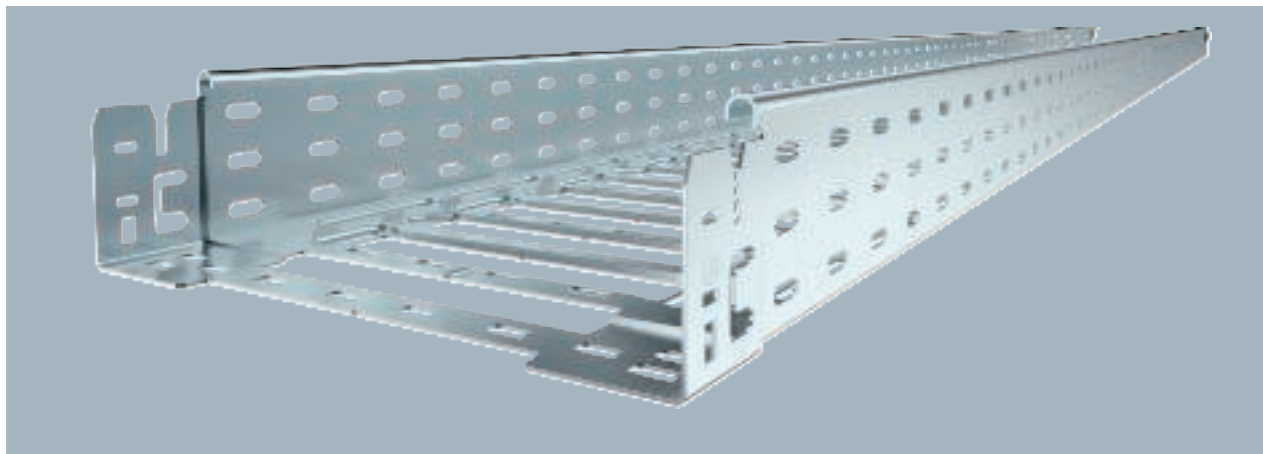
| Type | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m |
|-------------|------------|------------|------------|
| SKSM 610 A4 | 3 | 2.25 | 1 |
| SKSM 620 A4 | 3 | 2.25 | 1 |
| SKSM 630 A4 | 2.7 | 2.1 | 0.8 |
| SKSM 640 A4 | 2.7 | 2.1 | 0.8 |
| SKSM 650 A4 | 1.9 | 1.55 | 0.8 |
| SKSM 660 A4 | 1.9 | 1.55 | 0.8 |

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 SKS-Magic® 85

St FS

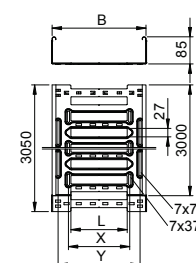


| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|-------------|-------------------------------|-----------|--------------------|----------|
| SKSM 810 FS | 100 | 1.50 | 3 | 301.836 | 6059530 |
| SKSM 820 FS | 200 | 1.50 | 3 | 381.967 | 6059534 |
| SKSM 830 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.

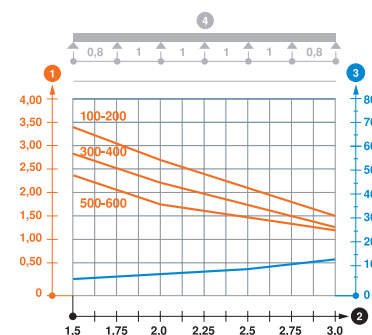
| Type | Length mm | Dim. B mm | Usable cross- section cm ² | Dim. L mm | Dim. x mm | Dim. y mm |
|-------------|--------------|-----------------|--|-----------------|-----------------|-----------------|
| SKSM 810 FS | 3050 | 100 | 83 | 30 | — | 62 |
| SKSM 820 FS | 3050 | 200 | 186 | 80 | 96 | 162 |
| 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



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

Load



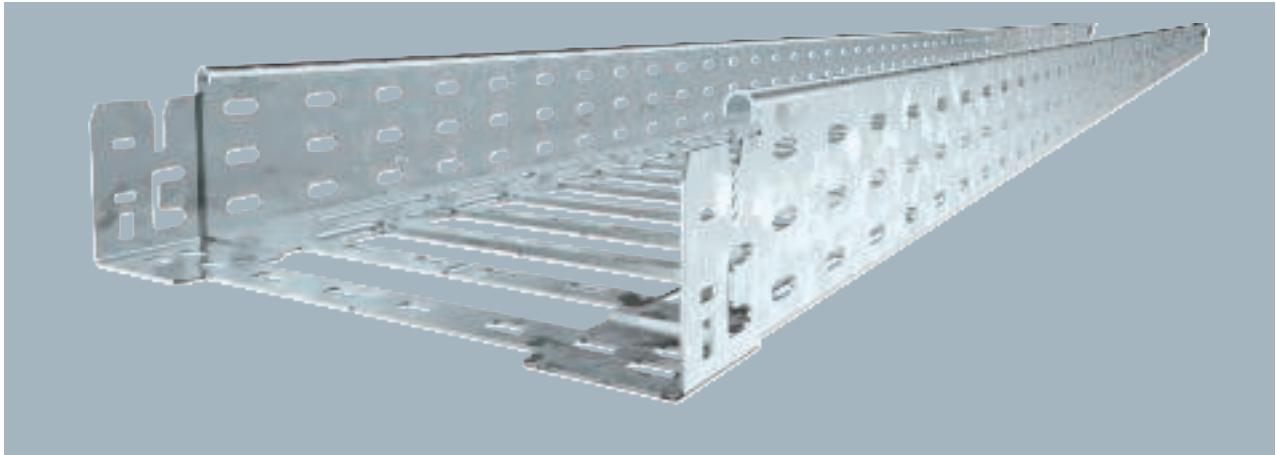
Load diagram, cable tray, type SKSM 85

- 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



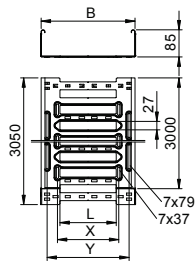
Cable tray SKS-Magic® 85



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.

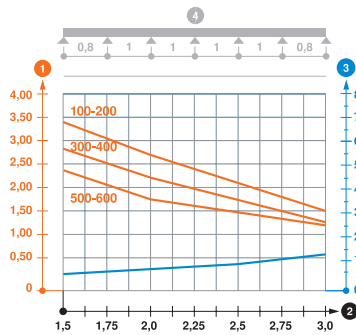
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|----------|--------------------|--------|-----------------|----------|
| SKSM 810 FT | 100 | 1.50 | 3 | 321.868 | 6059549 |
| SKSM 820 FT | 200 | 1.50 | 3 | 404.918 | 6059553 |
| SKSM 830 FT | 300 | 1.50 | 3 | 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. mm | cross-section cm² | 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



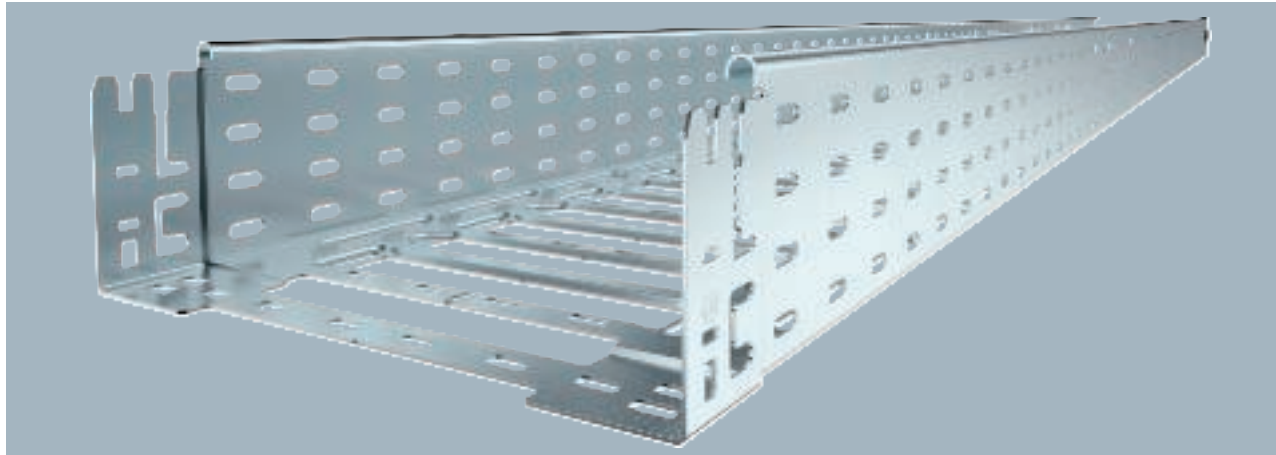
| Type | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m |
|-------------|------------|------------|------------|
| SKSM 810 FT | 3.4 | 2.7 | 1.5 |
| SKSM 820 FT | 3.4 | 2.7 | 1.5 |
| SKSM 830 FT | 2.8 | 2.25 | 1.35 |
| SKSM 840 FT | 2.8 | 2.25 | 1.35 |
| SKSM 850 FT | 2.4 | 1.75 | 1.2 |
| SKSM 860 FT | 2.4 | 1.75 | 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® 110

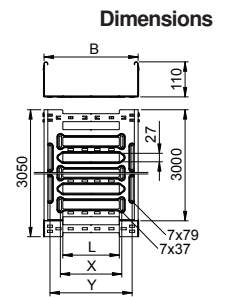
St FS



| 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 | 6059616 |
| 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 |

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.

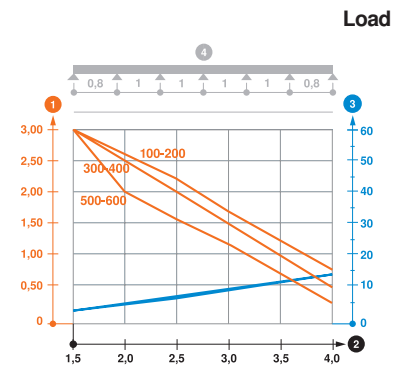
| Type | Length mm | Usable Dim. B mm | cross-section cm ² | Dim. L mm | Dim. x mm | Dim. y mm |
|-------------|-----------|------------------|-------------------------------|-----------|-----------|-----------|
| SKSM 110 FS | 3050 | 100 | 108 | 30 | — | 62 |
| SKSM 115 FS | 3050 | 150 | 161 | 30 | 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 |



| | 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

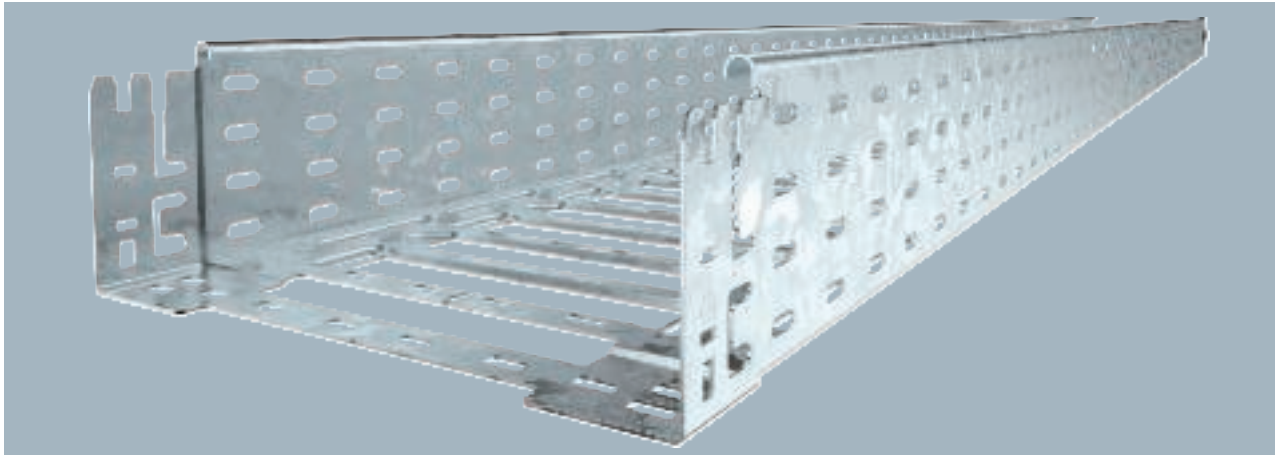
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



St FT



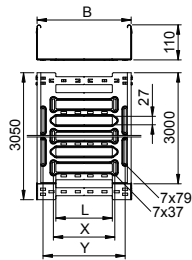
Cable tray SKS-Magic® 110



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.

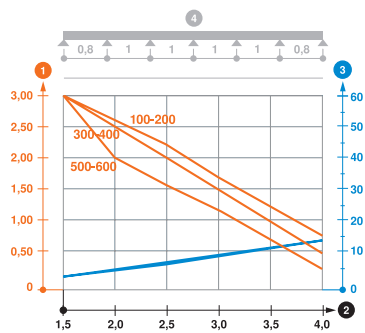
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|----------|--------------------|--------|-----------------|----------|
| SKSM 110 FT | 100 | 1.50 | 3 | 374.426 | 6059631 |
| SKSM 115 FT | 150 | 1.50 | 3 | 431.803 | 6059633 |
| SKSM 120 FT | 200 | 1.50 | 3 | 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 |

Dimensions



| Type | Length mm | Usable Dim. B mm | cross-section cm ² | Dim. L mm | Dim. x mm | Dim. y mm | Dimension 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 | |

Load



| Type | 1.5 m kN/m | 3.0 m kN/m | 4.0 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 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® 60, unperforated

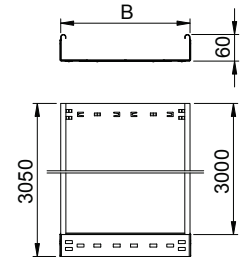


| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|--------------|-------------|-------------------------------|-----------|--------------------|----------|
| SKSMU 610 FS | 100 | 1.50 | 3 | 287.245 | 6059688 |
| SKSMU 615 FS | 150 | 1.50 | 3 | 346.032 | 6059690 |
| SKSMU 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.

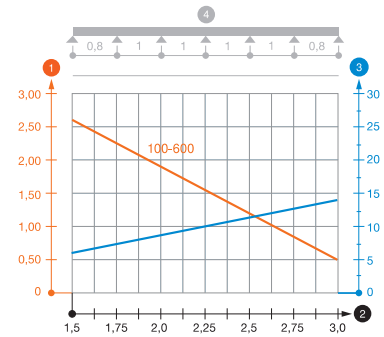
| Type | Length mm | Dim. B mm | Usable dim. cross- section cm ² |
|--------------|--------------|--------------|---|
| SKSMU 610 FS | 3050 | 100 | 58 |
| SKSMU 615 FS | 3050 | 150 | 88 |
| SKSMU 620 FS | 3050 | 200 | 118 |
| SKSMU 630 FS | 3050 | 300 | 178 |
| SKSMU 640 FS | 3050 | 400 | 238 |
| SKSMU 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



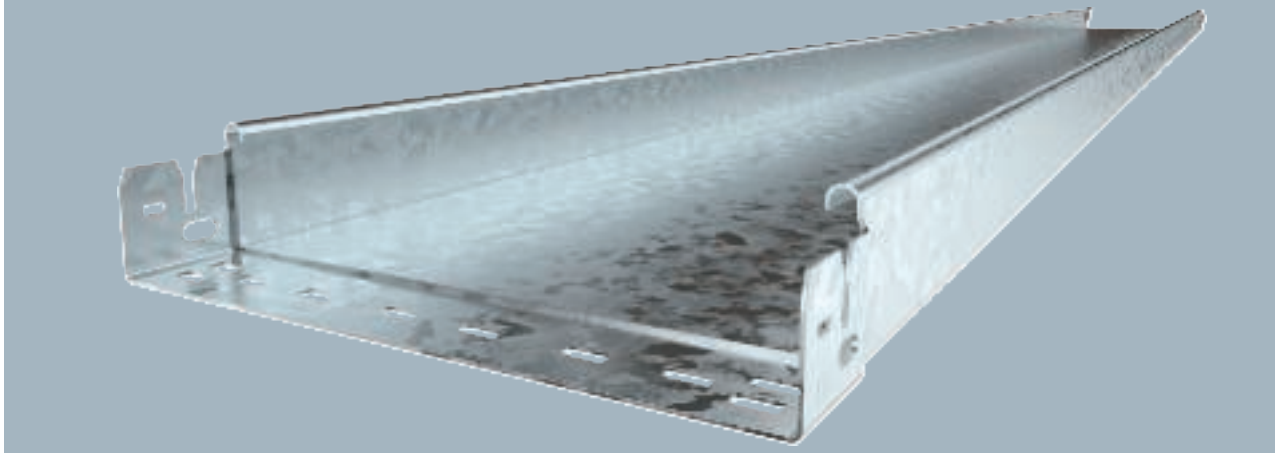
Load diagram, cable tray, type SKSMU 60

- 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



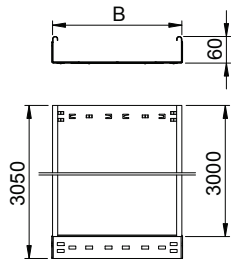
Cable tray SKS-Magic® 60, unperforated



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

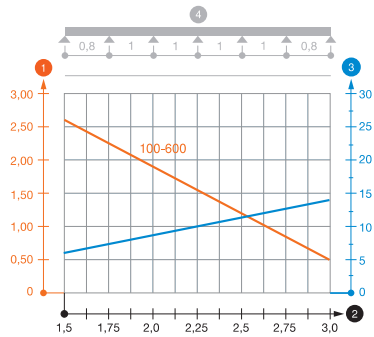
| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|--------------|-------------|----------------------------|-----------|--------------------|----------|
| SKSMU 610 FT | 100 | 1.50 | 3 | 306.262 | 6059705 |
| SKSMU 615 FT | 150 | 1.50 | 3 | 368.950 | 6059707 |
| SKSMU 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 | B mm | Usable Dim. cross- section cm ² |
|--------------|--------------|---------|--|
| 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

VA 2B

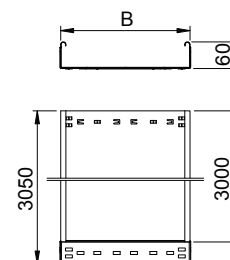


| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|--------------|-------------|-------------------------------|-----------|--------------------|----------|
| SKSMU 610 A2 | 100 | 1.50 | 3 | 292.033 | 6059722 |
| SKSMU 620 A2 | 200 | 1.50 | 3 | 411.533 | 6059726 |
| SKSMU 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.

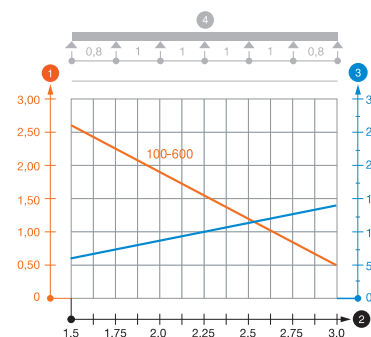
| Type | Length mm | Dim. B mm | Usable cross- section cm² |
|--------------|--------------|-----------------|------------------------------------|
| SKSMU 610 A2 | 3050 | 100 | 58 |
| SKSMU 620 A2 | 3050 | 200 | 118 |
| SKSMU 630 A2 | 3050 | 300 | 178 |
| SKSMU 640 A2 | 3050 | 400 | 238 |
| SKSMU 650 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



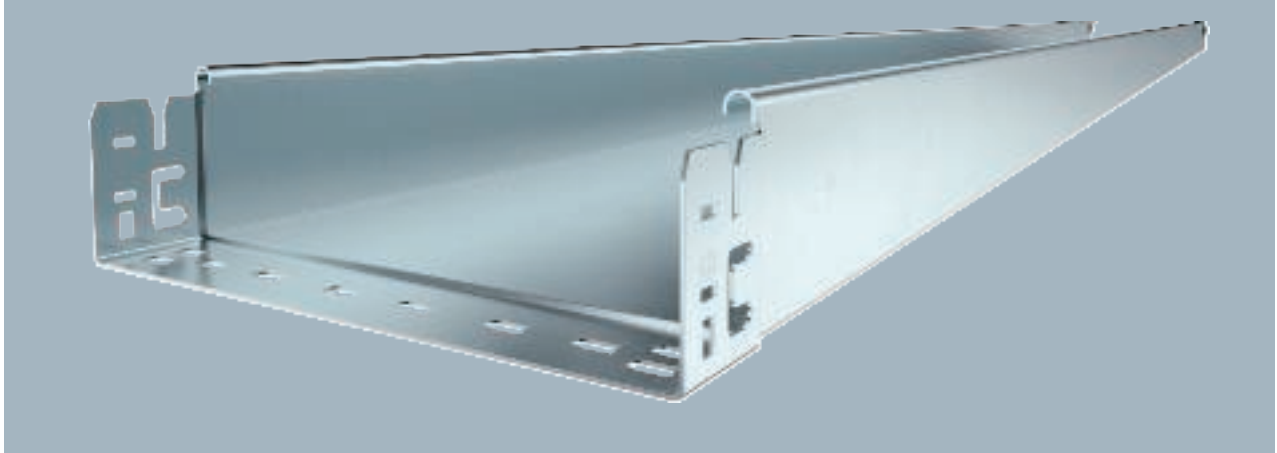
Load diagram, cable tray, type SKSMU 60

- 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



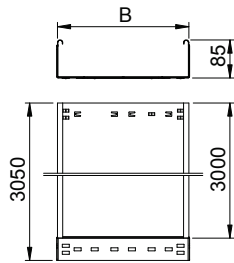
Cable tray SKS-Magic® 85, unperforated



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

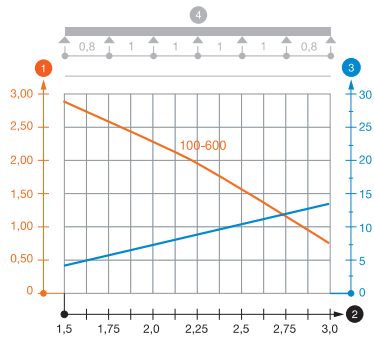
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|--------------|----------|--------------------|--------|-----------------|----------|
| SKSMU 810 FS | 100 | 1.50 | 3 | 345.803 | 6059762 |
| SKSMU 820 FS | 200 | 1.50 | 3 | 463.344 | 6059766 |
| SKSMU 830 FS | 300 | 1.50 | 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 |

Dimensions



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

Load



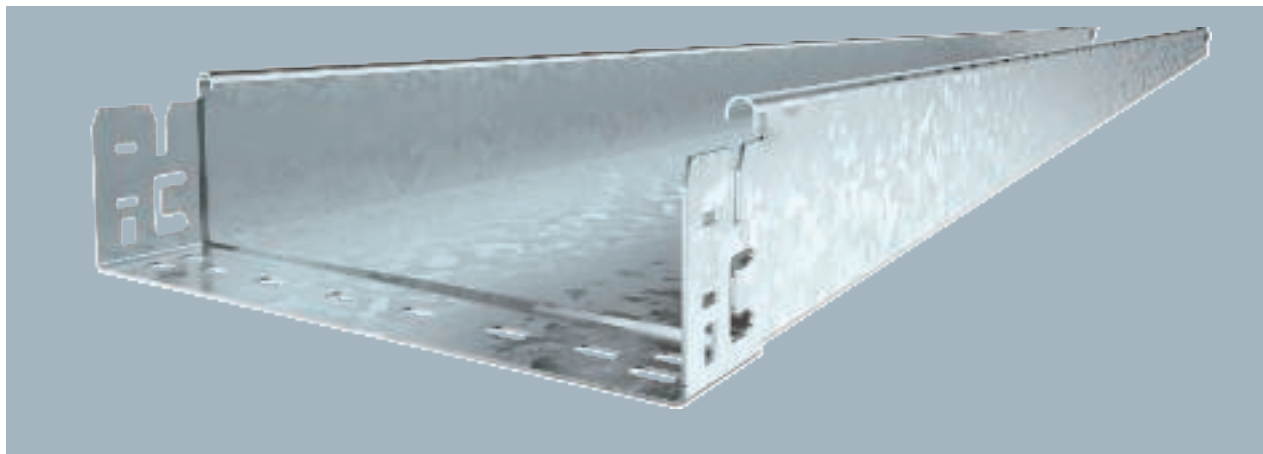
| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|--------------|------------|------------|------------|------------|
| SKSMU 810 FS | 2.8 | 2.25 | 1.5 | 0.75 |
| SKSMU 820 FS | 2.8 | 2.25 | 1.5 | 0.75 |
| SKSMU 830 FS | 2.8 | 2.25 | 1.5 | 0.75 |
| SKSMU 840 FS | 2.8 | 2.25 | 1.5 | 0.75 |
| SKSMU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

Load diagram, cable tray, type SKSMU 85

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

Cable tray SKS-Magic® 85, unperforated

St FT

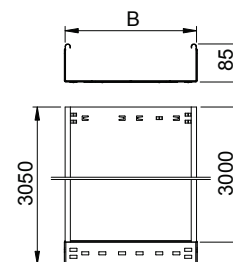


| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|--------------|-------------|-------------------------------|-----------|--------------------|----------|
| SKSMU 810 FT | 100 | 1.50 | 3 | 368.819 | 6059779 |
| SKSMU 820 FT | 200 | 1.50 | 3 | 494.032 | 6059783 |
| SKSMU 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 |

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

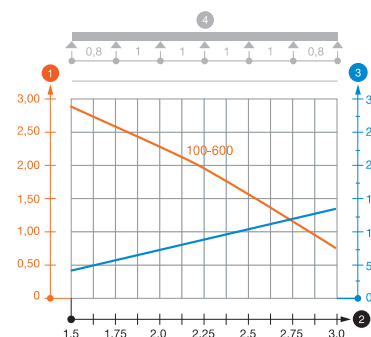
| Type | Length mm | Dim. B mm | Usable cross- section cm² |
|--------------|--------------|-----------------|------------------------------------|
| SKSMU 810 FT | 3050 | 100 | 83 |
| SKSMU 820 FT | 3050 | 200 | 186 |
| SKSMU 830 FT | 3050 | 300 | 253 |
| SKSMU 840 FT | 3050 | 400 | 338 |
| SKSMU 850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

Dimensions



| | 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



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 FS

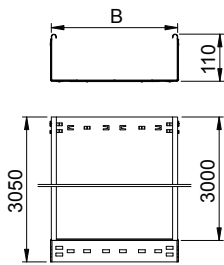
Cable tray SKS-Magic® 110, unperforated



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

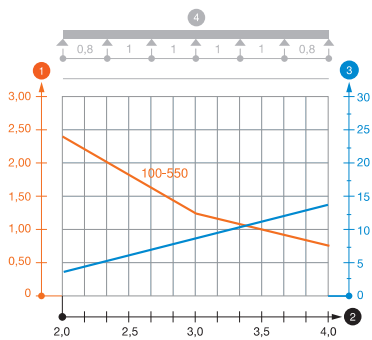
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|--------------|----------|--------------------|--------|-----------------|----------|
| SKSMU 110 FS | 100 | 1.50 | 3 | 404.262 | 6059836 |
| SKSMU 115 FS | 150 | 1.50 | 3 | 463.049 | 6059838 |
| SKSMU 120 FS | 200 | 1.50 | 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 |

Dimensions



| Type | Length mm | Dim. B mm | Usable Dim. cross-section cm² |
|--------------|-----------|-----------|-------------------------------|
| SKSMU 110 FS | 3050 | 100 | 108 |
| SKSMU 115 FS | 3050 | 150 | 161 |
| SKSMU 120 FS | 3050 | 200 | 218 |
| SKSMU 130 FS | 3050 | 300 | 328 |
| SKSMU 140 FS | 3050 | 400 | 438 |
| SKSMU 150 FS | 3050 | 500 | 548 |
| SKSMU 160 FS | 3050 | 600 | 655 |

Load

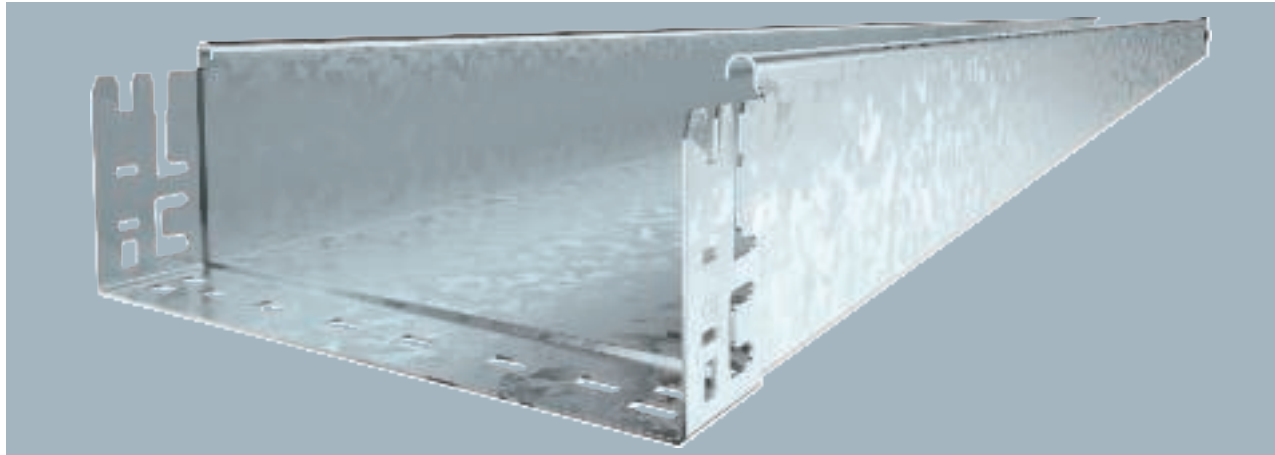


| | 1.5 m | 2.0 m | 3.0 m | 4.0 m |
|--------------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/m | kN/m |
| SKSMU 110 FS | 3 | 2.4 | 1.2 | 0.8 |
| SKSMU 115 FS | 3 | 2.4 | 1.2 | 0.8 |
| SKSMU 120 FS | 3 | 2.4 | 1.2 | 0.8 |
| SKSMU 130 FS | 3 | 2.4 | 1.2 | 0.8 |
| SKSMU 140 FS | 3 | 2.4 | 1.2 | 0.8 |
| SKSMU 150 FS | 3 | 2.4 | 1.2 | 0.8 |
| SKSMU 160 FS | 3 | 2.4 | 1.2 | 0.8 |

Load diagram, cable tray, type SKSMU 110

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

Cable tray SKS-Magic® 110, unperforated

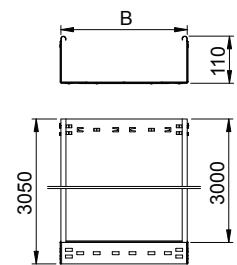


| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|--------------|----------|--------------------|--------|-----------------|----------|
| SKSMU 110 FT | 100 | 1.50 | 3 | 431.049 | 6059853 |
| SKSMU 115 FT | 150 | 1.50 | 3 | 493.737 | 6059855 |
| SKSMU 120 FT | 200 | 1.50 | 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 |

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

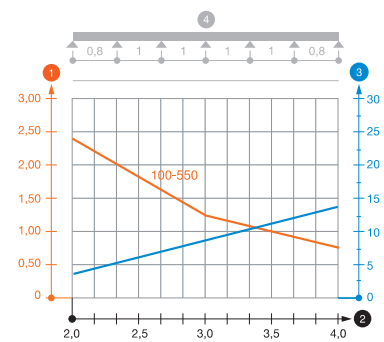
| Type | Length mm | Dim. B mm | Usable Dim. cross-section cm ² |
|--------------|-----------|-----------|---|
| SKSMU 110 FT | 3050 | 100 | 108 |
| SKSMU 115 FT | 3050 | 150 | 161 |
| SKSMU 120 FT | 3050 | 200 | 218 |
| SKSMU 130 FT | 3050 | 300 | 328 |
| SKSMU 140 FT | 3050 | 400 | 438 |
| SKSMU 150 FT | 3050 | 500 | 548 |
| SKSMU 160 FT | 3050 | 600 | 655 |

Dimensions



| | 1.5 m | 2.0 m | 3.0 m | 4.0 m |
|--------------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/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



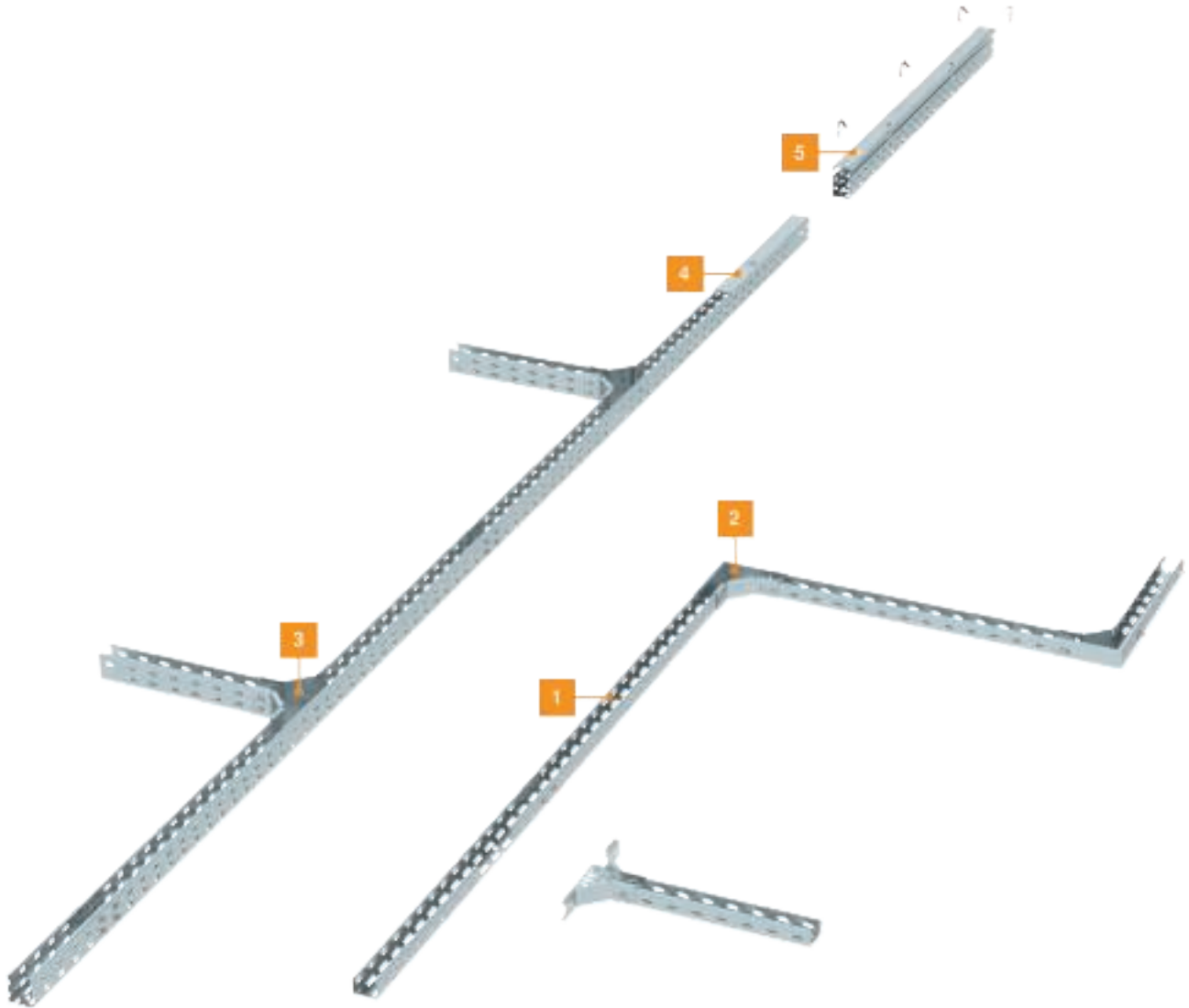
Load diagram, cable tray, type SKSMU 110

- 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



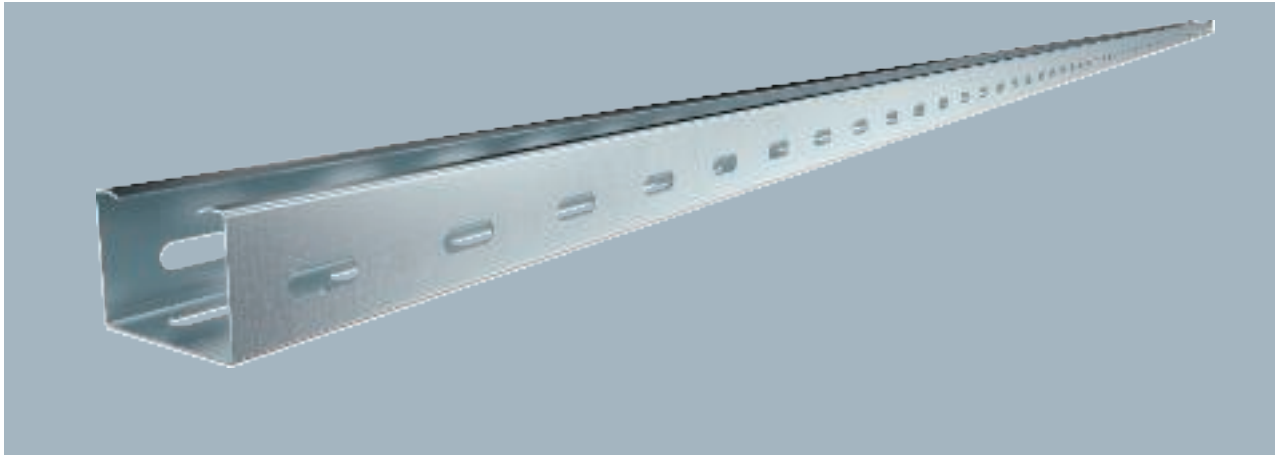
RKS cable tray system

Installation principle



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

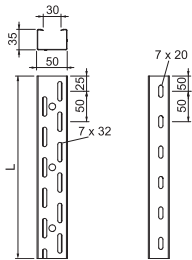
Cable tray RKS 35



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.

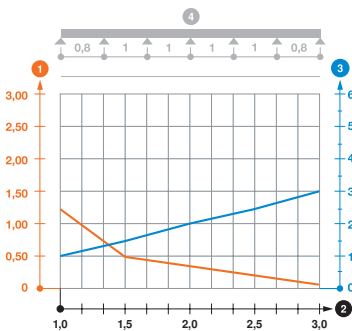
| Type | Side height mm | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|------------|----------------|----------|--------------------|--------|-----------------|----------|
| RKS 305 FS | 35 | 50 | 0.75 | 3 | 69.667 | 6047410 |

Dimensions



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

Load

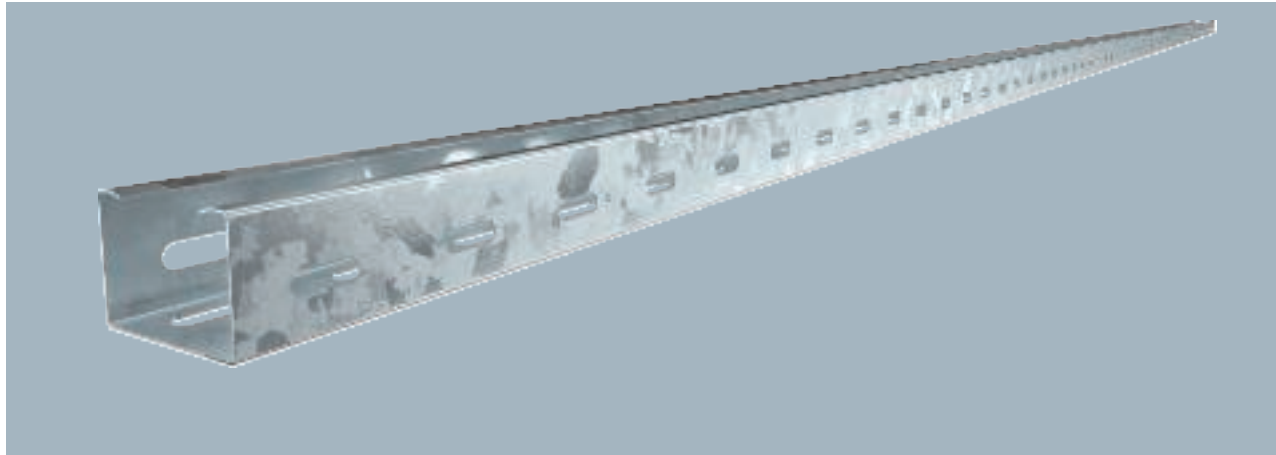


| RKS 305 FS | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|------------|------------|------------|------------|------------|------------|
| RKS 305 FS | 1.2 | 0.5 | 0.3 | 0.1 | 0.05 |

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

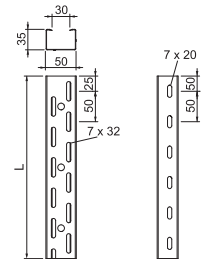


| Type | Side height mm | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|------------|-------------------|-------------|-----------------------|-----------|--------------------|----------|
| RKS 305 FT | 35 | 50 | 0.75 | 3 | 79.334 | 6047412 |

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

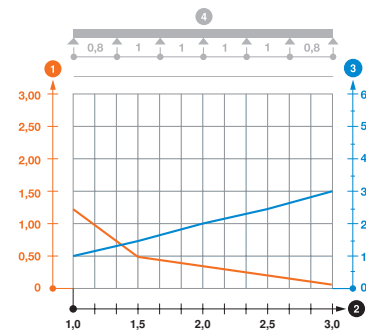


| | 1.0 m | 1.5 m | 2.0 m | 2.5 m | 3.0 m |
|------------|-------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/m | kN/m | kN/m |
| RKS 305 FT | 1.2 | 0.5 | 0.3 | 0.1 | 0.05 |

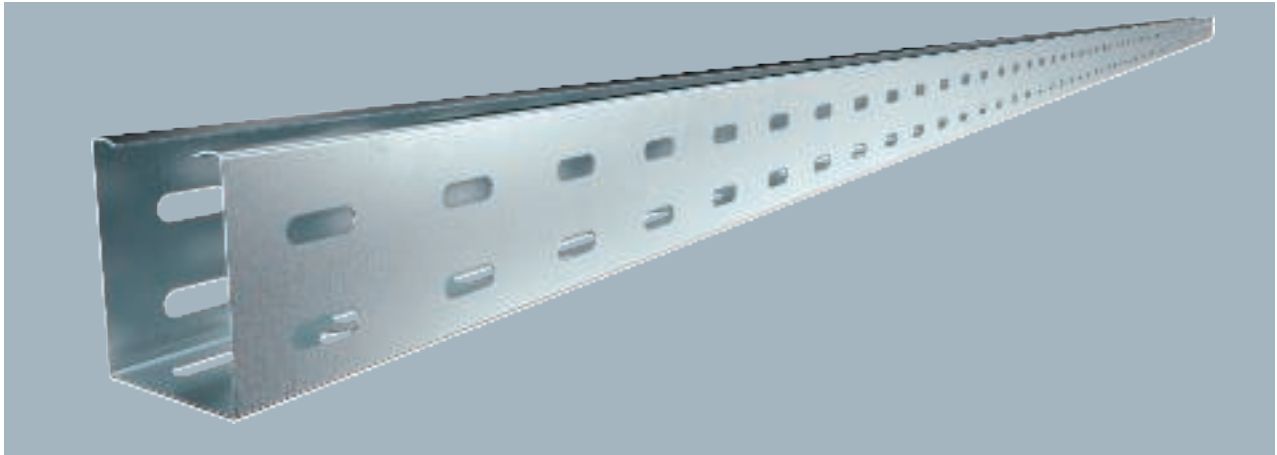
Load diagram, cable tray, type RKS 35

- 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



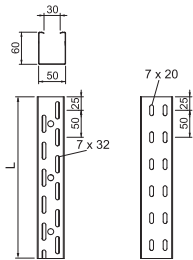
Cable tray RKS 60



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.

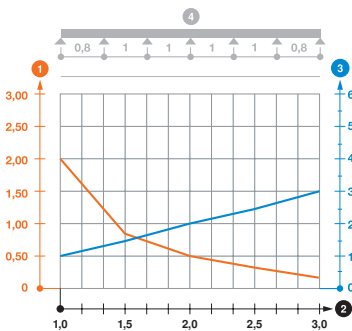
| Type | Side height mm | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|------------|----------------|----------|--------------------|--------|-----------------|----------|
| RKS 605 FS | 60 | 50 | 0.75 | 3 | 96.000 | 6047600 |

Dimensions



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

Load

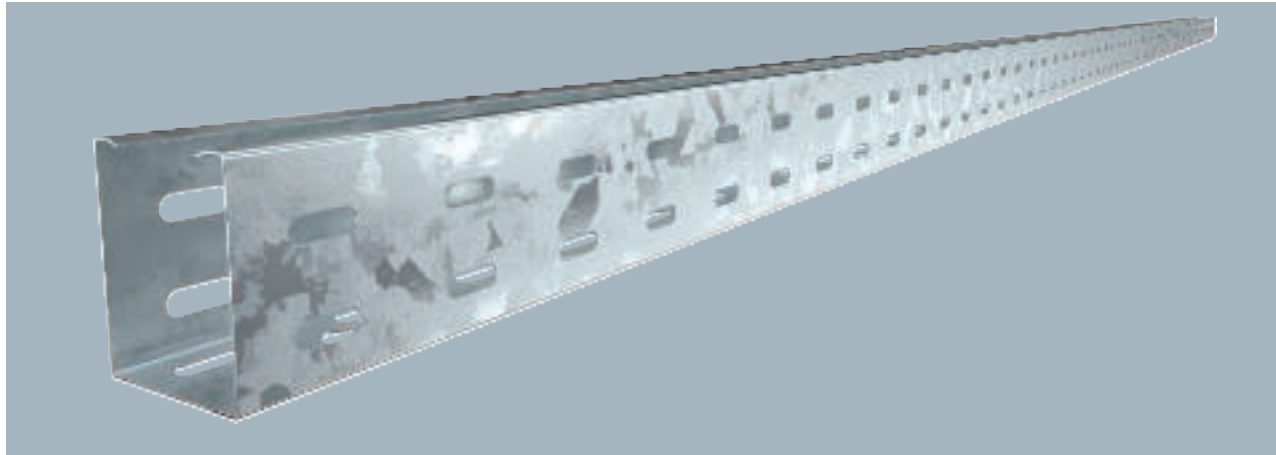


| RKS 605 FS | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|------------|------------|------------|------------|------------|------------|
| | 2 | 0.8 | 0.5 | 0.35 | 0.15 |

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



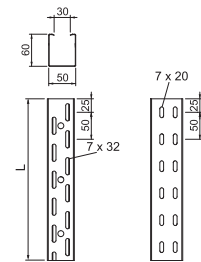
| Type | Side height mm | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|------------|-------------------|-------------|-----------------------|-----------|--------------------|----------|
| RKS 605 FT | 60 | 50 | 0.75 | 3 | 108.000 | 6047602 |

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 FT | 3000 | 30 |

Dimensions

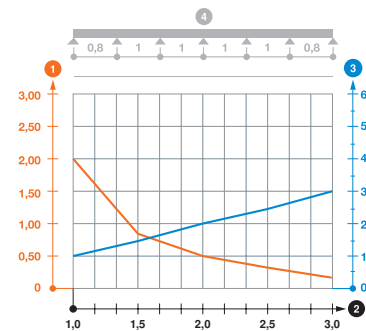


| RKS 605 FT | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|------------|---------------|---------------|---------------|---------------|---------------|
| | 2 | 0.8 | 0.5 | 0.35 | 0.15 |

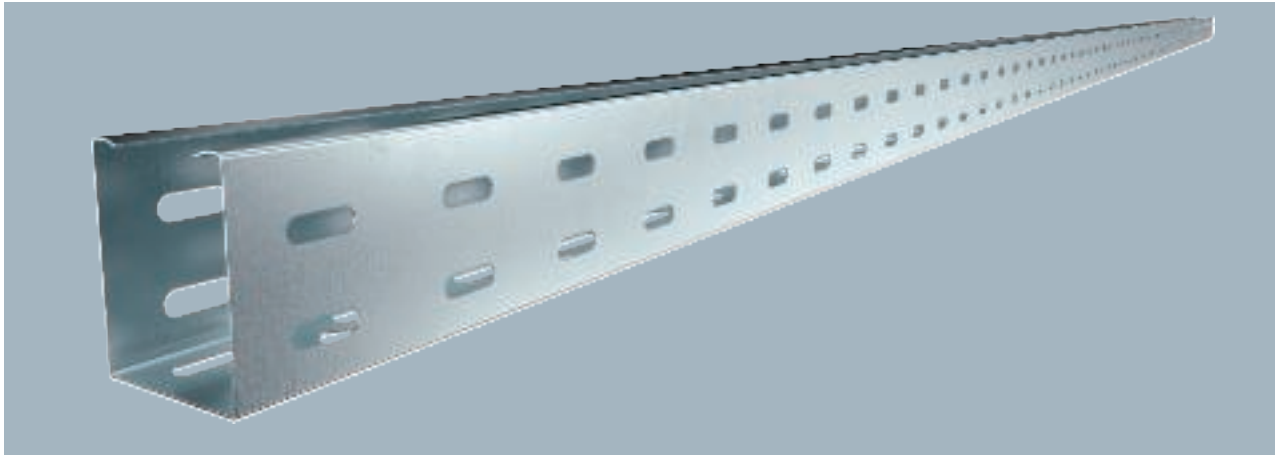
Load diagram, cable tray, type RKS 60, unbeaded

- 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

Load



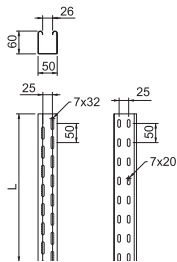
Cable tray RKS 60



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.

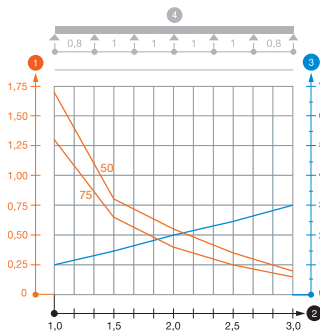
| Type | Side height mm | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|------------|----------------|----------|--------------------|--------|-----------------|----------|
| RKS 607 FS | 60 | 75 | 0.75 | 3 | 118.940 | 6055893 |

Dimensions



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

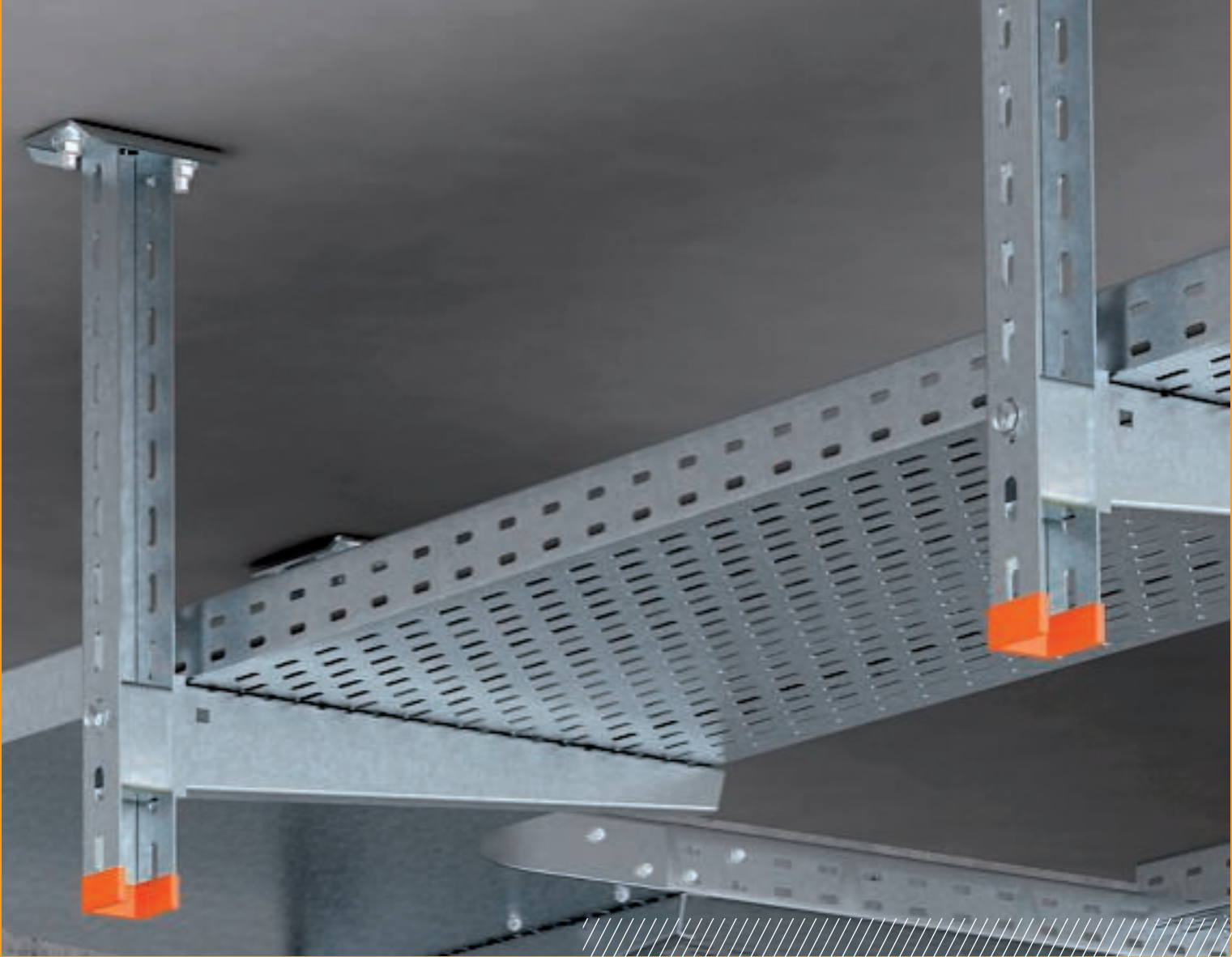
Load



| | 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 |
| RKS 607 FS | 1.3 | 0.65 | 0.4 | 0.25 | 0.15 |

Load diagram, cable tray, type RKS 60, unbeaded

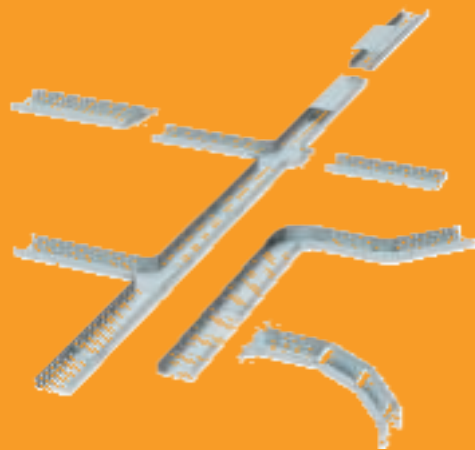
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



Cable tray system MKS

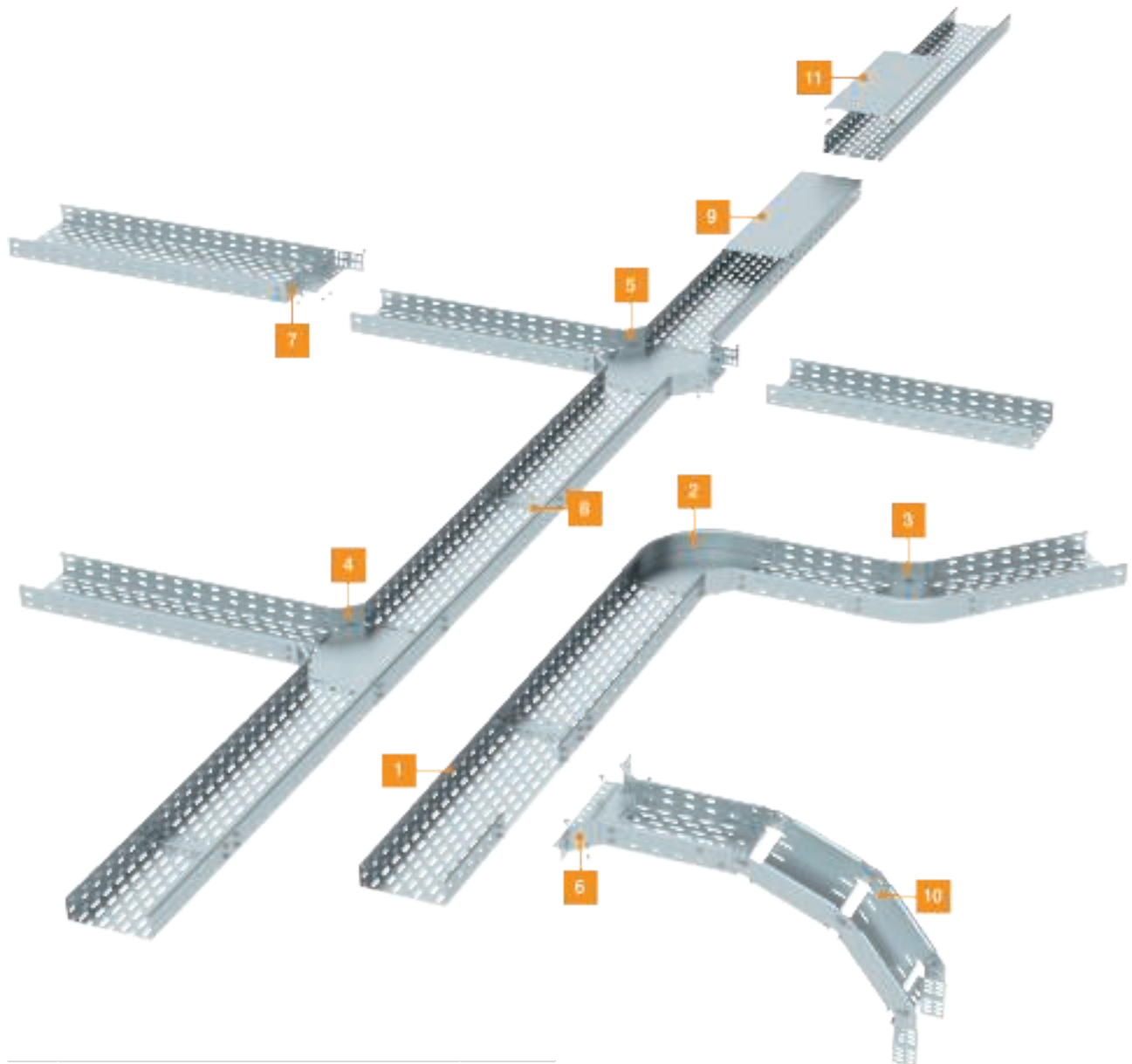
The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task. No matter whether used in dry inner areas or in aggressive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

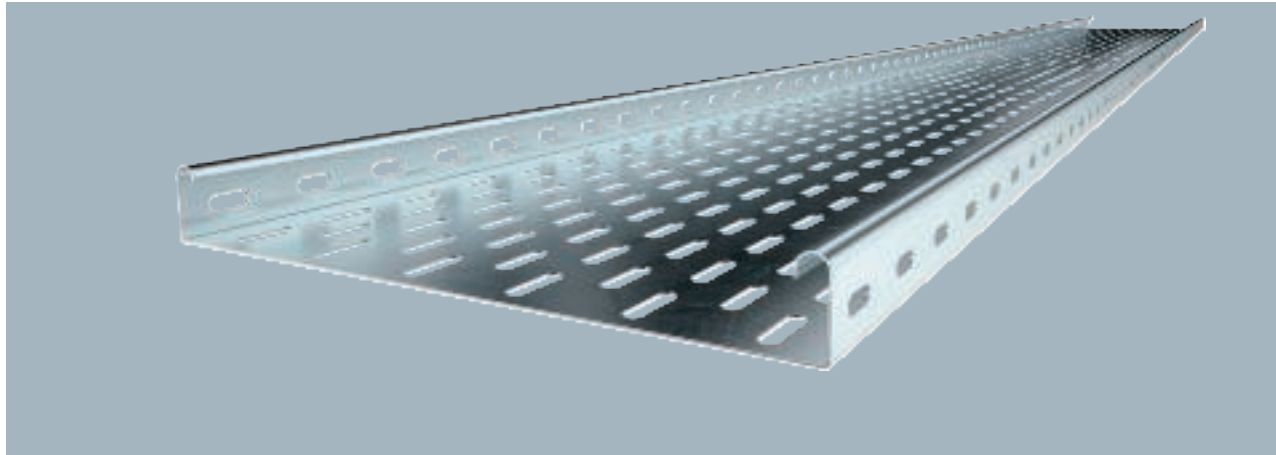
Installation principle



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



Cable tray MKS 35



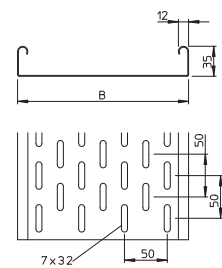
| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|------------|-------------|-------------------------------|-----------|--------------------|----------|
| MKS 310 FS | 100 | 1.00 | 3 | 144.134 | 6053548 |
| MKS 315 FS | 150 | 1.00 | 3 | 177.067 | 6053572 |
| MKS 320 FS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

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

FS version includes RV 35 straight connector set.

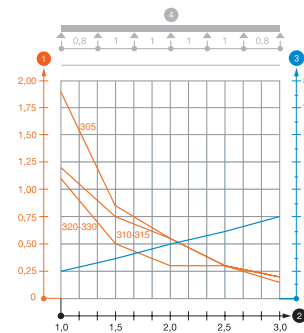
| Type | Length mm | Usable Dim. B mm | cross- section cm ² |
|------------|--------------|------------------------|--------------------------------------|
| MKS 310 FS | 3000 | 100 | 33 |
| MKS 315 FS | 3000 | 150 | 50.5 |
| MKS 320 FS | 3000 | 200 | 68 |
| MKS 330 FS | 3000 | 300 | 103 |

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 |
|------------|---------------|---------------|---------------|---------------|---------------|
| MKS 310 FS | 1.2 | 0.75 | 0.55 | 0.3 | 0.2 |
| MKS 315 FS | 1.2 | 0.75 | 0.55 | 0.3 | 0.2 |
| MKS 320 FS | 1.1 | 0.5 | 0.3 | 0.3 | 0.2 |
| MKS 330 FS | 1.1 | 0.5 | 0.3 | 0.3 | 0.2 |

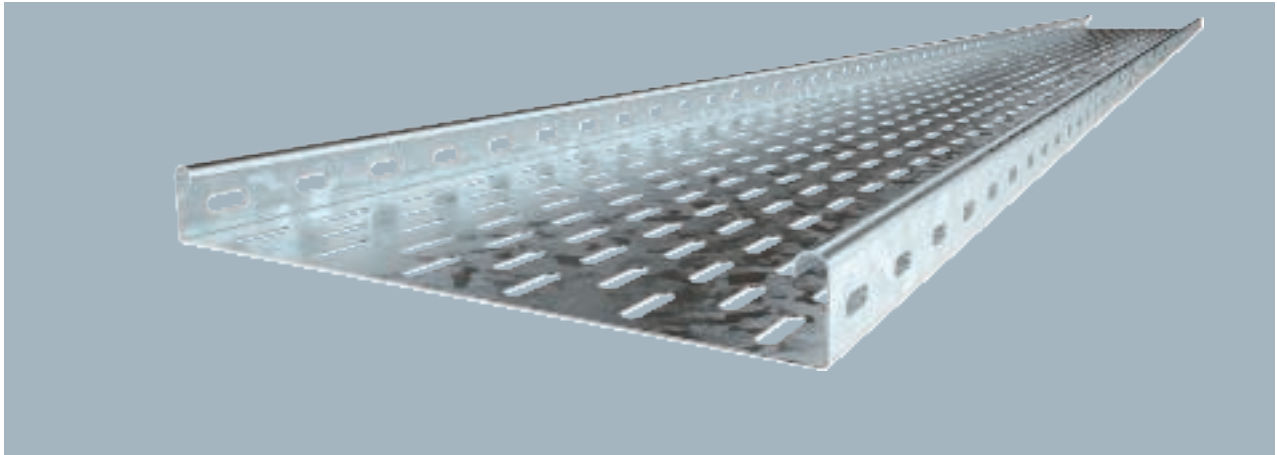
Load



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

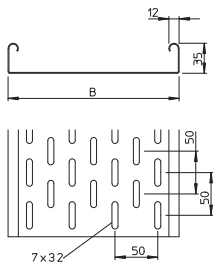
Cable tray MKS 35



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

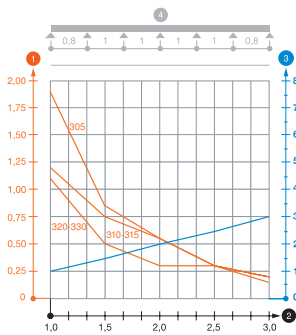
| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|------------|-------------|----------------------------|-----------|--------------------|----------|
| MKS 310 FT | 100 | 1.00 | 3 | 153.000 | 6053106 |
| MKS 315 FT | 150 | 1.00 | 3 | 188.734 | 6053165 |
| MKS 320 FT |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

Dimensions



| Type | Length mm | Usable Dim. B mm | 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 |

Load

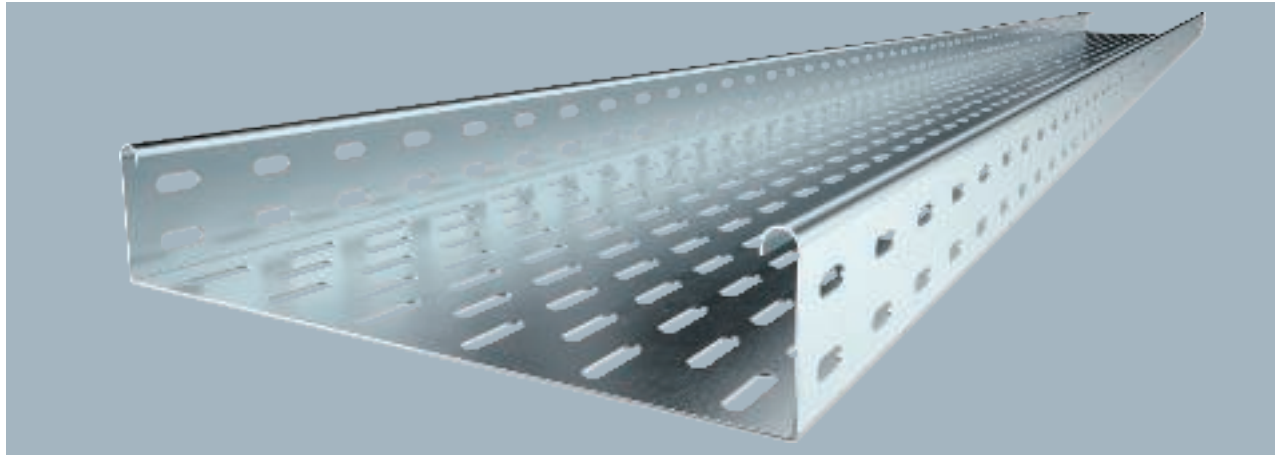


| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|------------|---------------|---------------|---------------|---------------|---------------|
| MKS 310 FT | 1.2 | 0.75 | 0.55 | 0.3 | 0.2 |
| MKS 315 FT | 1.2 | 0.75 | 0.55 | 0.3 | 0.2 |
| MKS 320 FT | 1.1 | 0.5 | 0.3 | 0.3 | 0.2 |
| MKS 330 FT | 1.1 | 0.5 | 0.3 | 0.3 | 0.2 |

Load diagram, cable tray, type MKS 35

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

Cable tray MKS 60



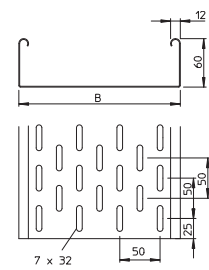
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|------------|----------|--------------------|--------|-----------------|----------|
| MKS 610 FS | 100 | 1.00 | 3 | 173.000 | 6055109 |
| MKS 615 FS | 150 | 1.00 | 3 | 214.000 | 6055141 |
| MKS 620 FS | 200 | 1.00 | 3 | 246.700 | 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.

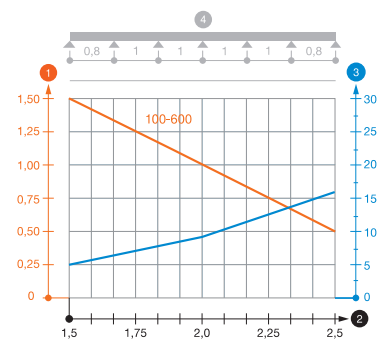
| Type | Length mm | Dim. B mm | Usable cross-section cm ² |
|------------|-----------|-----------|--------------------------------------|
| MKS 610 FS | 3000 | 100 | 58 |
| MKS 615 FS | 3000 | 150 | 88 |
| MKS 620 FS | 3000 | 200 | 118 |
| MKS 630 FS | 3000 | 300 | 178 |
| MKS 640 FS | 3000 | 400 |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

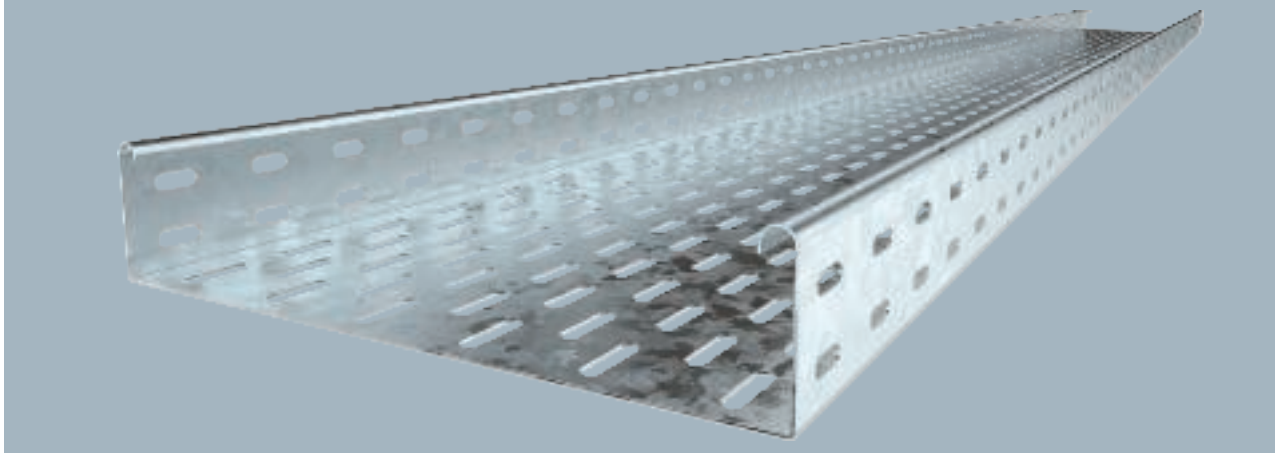


Load diagram, cable tray, type MKS 60

- 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



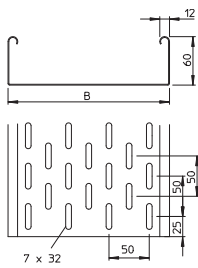
Cable tray MKS 60



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

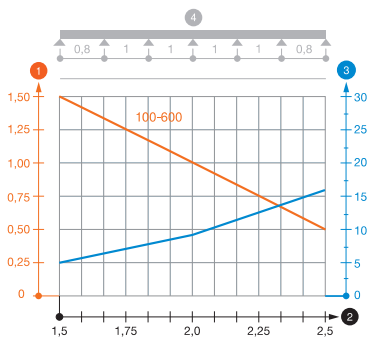
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|------------|----------|--------------------|--------|-----------------|----------|
| MKS 610 FT | 100 | 1.00 | 3 | 190.100 | 6055532 |
| MKS 615 FT | 150 | 1.00 | 3 | 225.667 | 6055559 |
| MKS 620 FT | 200 | 1.00 | 3 | 263.234 | 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 | Usable Dim. B mm | 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

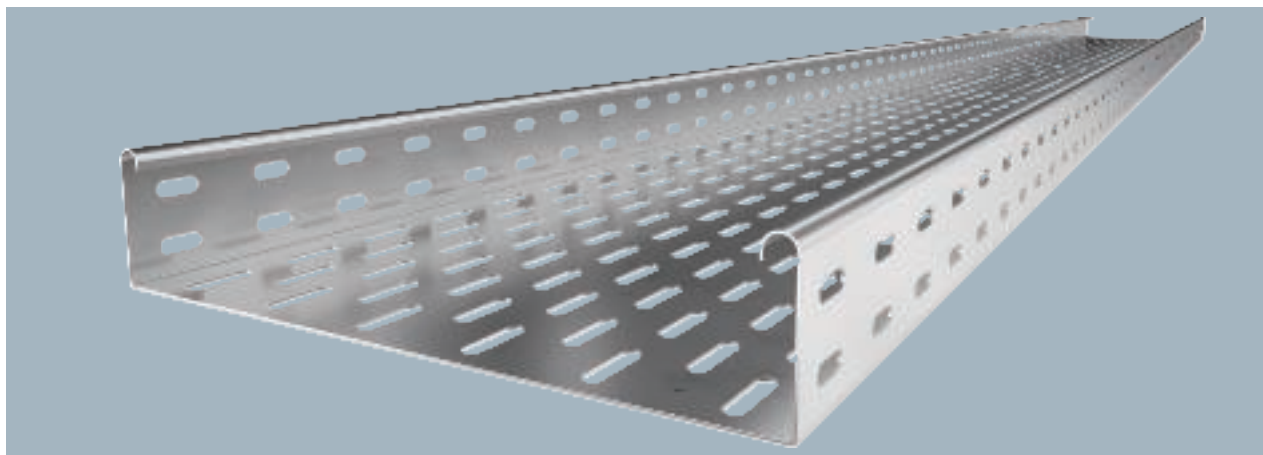


| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|------------|------------|------------|------------|
| MKS 610 FT | 1.5 | 1 | 0.5 |
| MKS 615 FT | 1.5 | 1 | 0.5 |
| MKS 620 FT | 1.5 | 1 | 0.5 |
| MKS 630 FT | 1.5 | 1 | 0.5 |
| MKS 640 FT | 1.5 | 1 | 0.5 |
| MKS 650 FT | 1.5 | 1 | 0.5 |
| MKS 660 FT | 1.5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

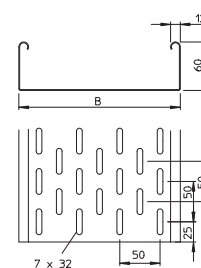


| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|------------|-------------|-------------------------------|-----------|--------------------|----------|
| MKS 610 A2 | 100 | 1.00 | 3 | 174.200 | 6056016 |
| MKS 620 A2 | 200 | 1.00 | 3 | 239.400 | 6056024 |
| MKS 630 A2 | 300 | 1.00 | 3 | 304.667 | 6056040 |
| MKS 640 A2 | 400 | 1.00 | 3 | 370.000 | 6056059 |
| MKS 650 A2 | 500 | 1.00 | 3 | 435.000 | 6056075 |
| MKS 660 A2 | 600 | 1.00 | 3 | 500.233 | 6056083 |

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

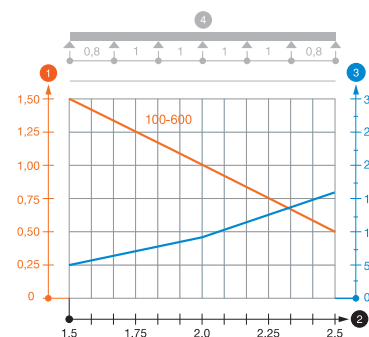
| Type | Length mm | Dim. B mm | Usable cross- section cm ² |
|------------|--------------|--------------|--|
| MKS 610 A2 | 3000 | 100 | 58 |
| MKS 620 A2 | 3000 | 200 | 118 |
| MKS 630 A2 | 3000 | 300 | 178 |
| MKS 640 A2 | 3000 | 400 | 238 |
| MKS 650 A2 | 3000 | 500 | 298 |
| MKS 660 A2 | 3000 | 600 | 358 |

Dimensions



| 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 |
| MKS 650 A2 | 1.5 | 1 | 0.5 |
| MKS 660 A2 | 1.5 | 1 | 0.5 |

Load

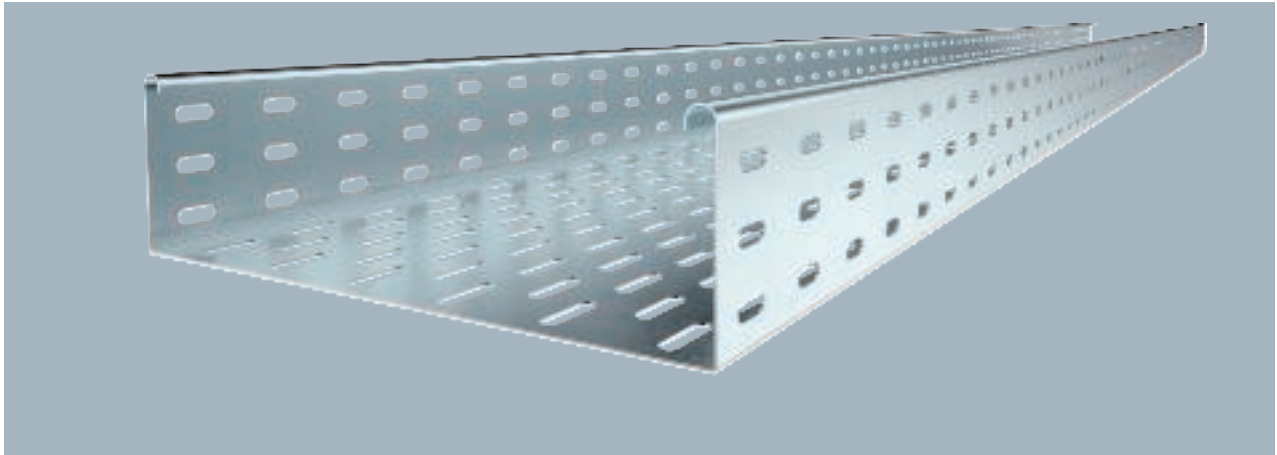


Load diagram, cable tray MKS 60 VA

- 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



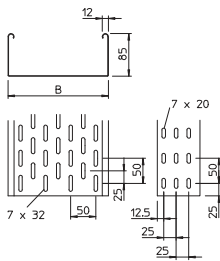
Cable tray MKS 85



Including connector, type RLVL 85.
MKS 85 = medium-duty cable tray system with a side height of 85 mm.

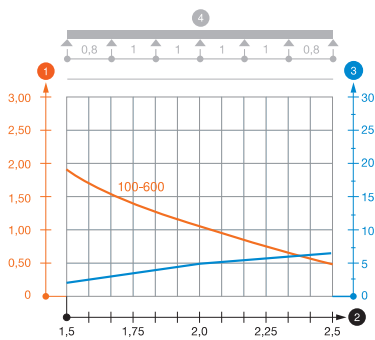
| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|------------|-------------|-------------------------------|-----------|--------------------|----------|
| MKS 810 FS | 100 | 1.00 | 3 | 207.670 | 6057101 |
| MKS 820 FS | 200 | 1.00 | 3 | 292.334 | 6057209 |
| MKS 830 FS | 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 |

Dimensions



| Type | Length mm | Usable Dim. B mm | 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 |

Load

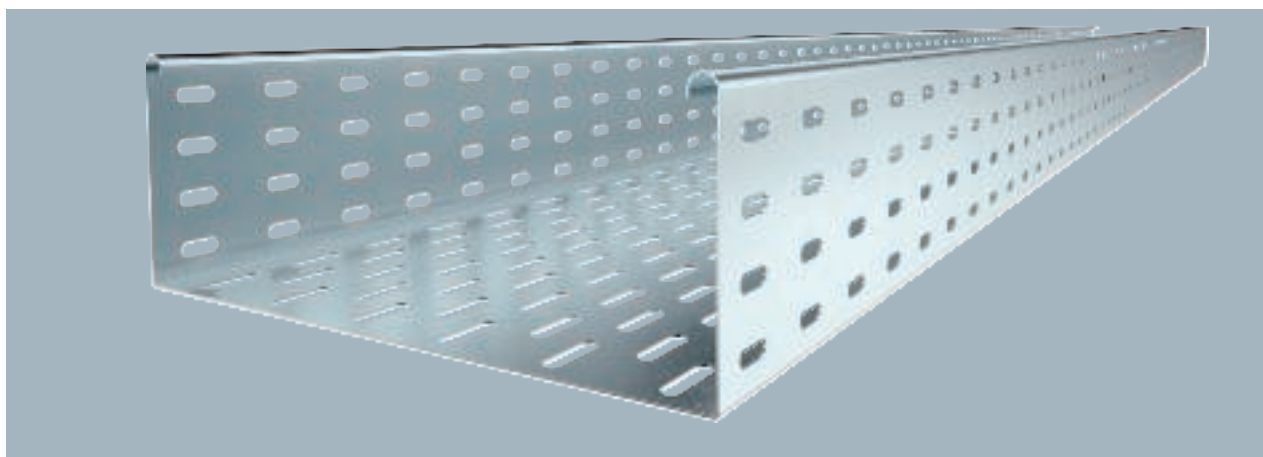


| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m |
|------------|---------------|---------------|---------------|
| MKS 810 FS | 1.75 | 1.1 | 0.5 |
| MKS 820 FS | 1.75 | 1.1 | 0.5 |
| MKS 830 FS | 1.75 | 1.1 | 0.5 |
| MKS 840 FS | 1.75 | 1.1 | 0.5 |
| MKS 850 FS | 1.75 | 1.1 | 0.5 |
| MKS 860 FS | 1.75 | 1.1 | 0.5 |

Load diagram, cable tray, type MKS 85

- 1 Permitted cable tray/ladder load in kN/m without man load
- 2 Support width in m
- 3 Rail bend in mm at permitted kN/m
- 4 Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
- * From width 300 mm, tested with joint plate SSLB

Cable tray MKS 110

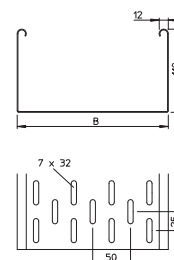


| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|------------|----------|--------------------|--------|-----------------|----------|
| MKS 110 FS | 100 | 1.00 | 3 | 267.700 | 6060102 |
| MKS 120 FS | 200 | 1.00 | 3 | 308.500 | 6060196 |
| MKS 130 FS | 300 | 1.00 | 3 | 373.900 | 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.

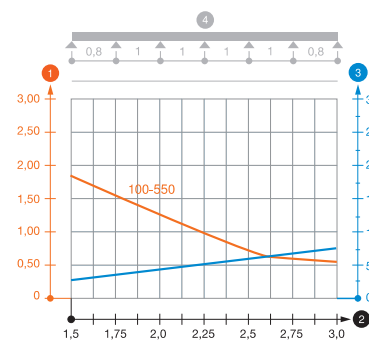
| Type | Length mm | Dim. B mm | Usable cross-section cm ² |
|------------|-----------|-----------|--------------------------------------|
| MKS 110 FS | 3000 | 100 | 108 |
| MKS 120 FS | 3000 | 200 | 218 |
| MKS 130 FS | 3000 | 300 | 328 |
| MKS 140 FS | 3000 | 400 | 438 |
| MKS 150 FS | 3000 | 500 | 548 |
| MKS 155 FS | 3000 | 550 | 603 |

Dimensions



| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|------------|------------|------------|------------|------------|
| MKS 110 FS | 1.85 | 1.3 | 0.75 | 0.6 |
| MKS 120 FS | 1.85 | 1.3 | 0.75 | 0.6 |
| MKS 130 FS | 1.85 | 1.3 | 0.75 | 0.6 |
| MKS 140 FS | 1.85 | 1.3 | 0.75 | 0.6 |
| MKS 150 FS | 1.85 | 1.3 | 0.75 | 0.6 |
| MKS 155 FS | 1.85 | 1.3 | 0.75 | 0.6 |

Load

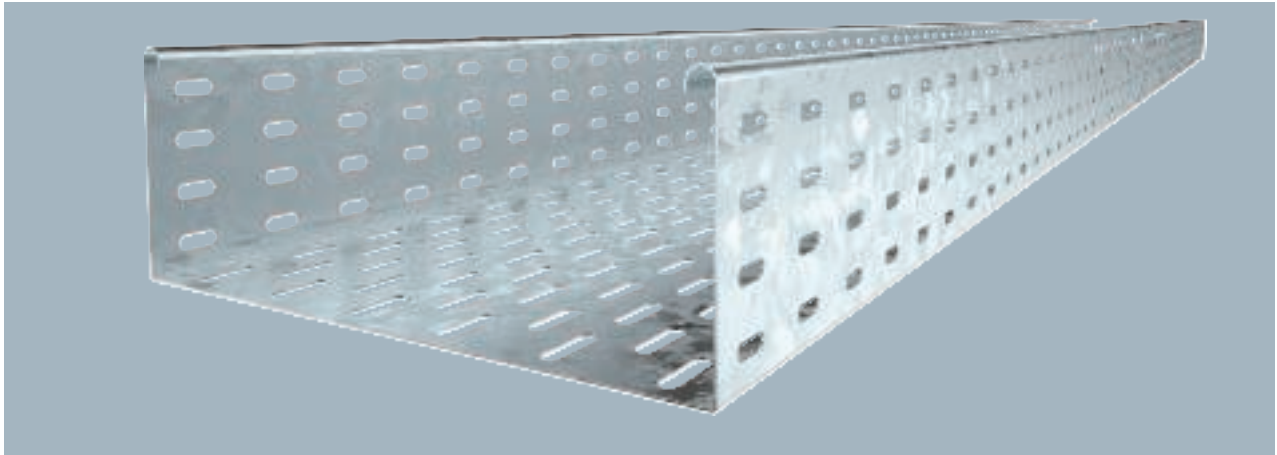


Load diagram, cable tray, type MKS 110

- 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



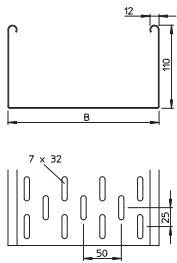
Cable tray MKS 110



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.

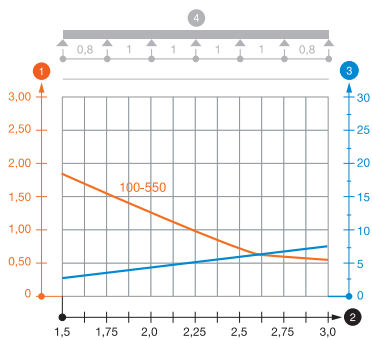
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|------------|----------|--------------------|--------|-----------------|----------|
| MKS 110 FT | 100 | 1.00 | 3 | 268.900 | 6060609 |
| MKS 120 FT | 200 | 1.00 | 3 | 340.600 | 6060625 |
| MKS 130 FT | 300 | 1.00 | 3 | 407.000 | 6060641 |
| MKS 140 FT | 400 | 1.00 | 3 | 484.000 | 6060676 |
| MKS 150 FT | 500 | 1.00 | 3 | 555.667 | 6060692 |
| MKS 160 FT | 600 | 1.00 | 3 | 627.367 | 6060710 |

Dimensions



| Type | Length mm | Usable Dim. B mm | 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 |
| MKS 150 FT | 3000 | 500 | 548 |
| MKS 160 FT | 3000 | 600 | 655 |

Load

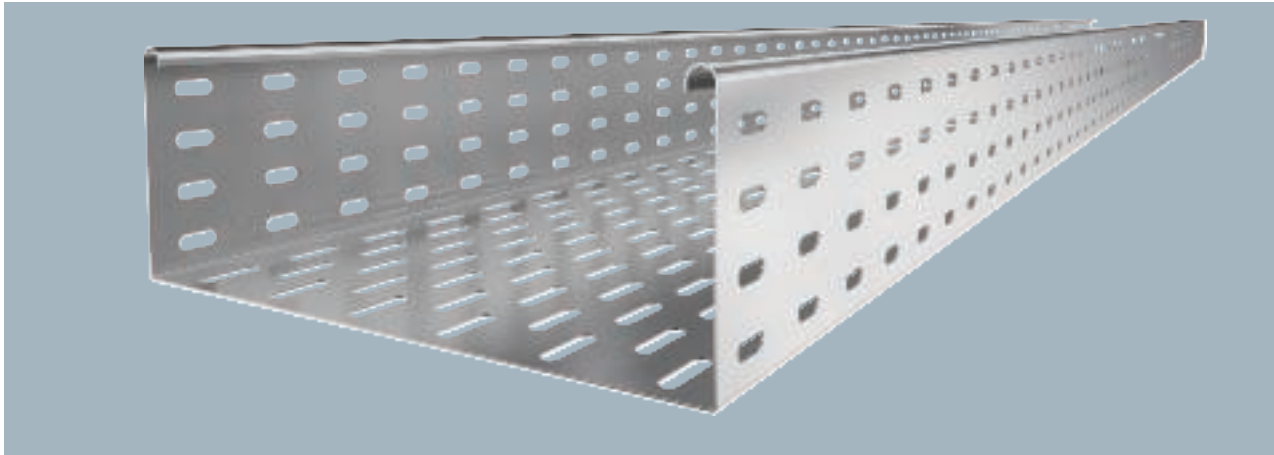


| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|------------|------------|------------|------------|------------|
| MKS 110 FT | 1.85 | 1.3 | 0.75 | 0.6 |
| MKS 120 FT | 1.85 | 1.3 | 0.75 | 0.6 |
| MKS 130 FT | 1.85 | 1.3 | 0.75 | 0.6 |
| MKS 140 FT | 1.85 | 1.3 | 0.75 | 0.6 |
| MKS 150 FT | 1.85 | 1.3 | 0.75 | 0.6 |
| MKS 160 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 MKS 110

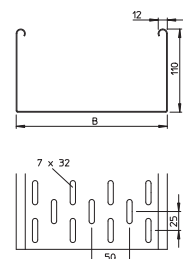


| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|------------|-------------|-------------------------------|-----------|--------------------|----------|
| MKS 110 A2 | 100 | 1.00 | 3 | 243.000 | 6060803 |
| MKS 120 A2 | 200 | 1.00 | 3 | 309.667 | 6060811 |
| MKS 130 A2 | 300 | 1.00 | 3 | 375.000 | 6060838 |
| MKS 140 A2 | 400 | 1.00 | 3 | 440.333 | 6060846 |

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.

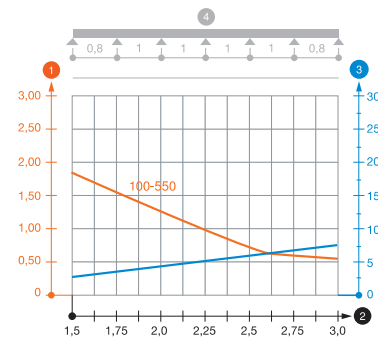
| Type | Length mm | Dim. B mm | Usable cross- section cm ² |
|------------|--------------|--------------|--|
| MKS 110 A2 | 3000 | 100 | 110 |
| MKS 120 A2 | 3000 | 200 | 220 |
| MKS 130 A2 | 3000 | 300 | 330 |
| MKS 140 A2 | 3000 | 400 | 440 |

Dimensions



| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|------------|---------------|---------------|---------------|---------------|
| MKS 110 A2 | 1.85 | 1.3 | 0.75 | 0.6 |
| MKS 120 A2 | 1.85 | 1.3 | 0.75 | 0.6 |
| MKS 130 A2 | 1.85 | 1.3 | 0.75 | 0.6 |
| MKS 140 A2 | 1.85 | 1.3 | 0.75 | 0.6 |

Load



Load diagram, cable tray, type MKS 110

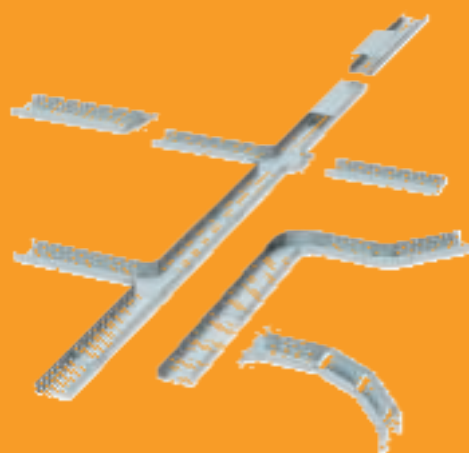
- 1 Permitted cable tray/ladder load in kN/m without man load
- 2 Support width in m
- 3 Rail bend in mm at permitted kN/m
- 4 Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



Cable tray system SKS

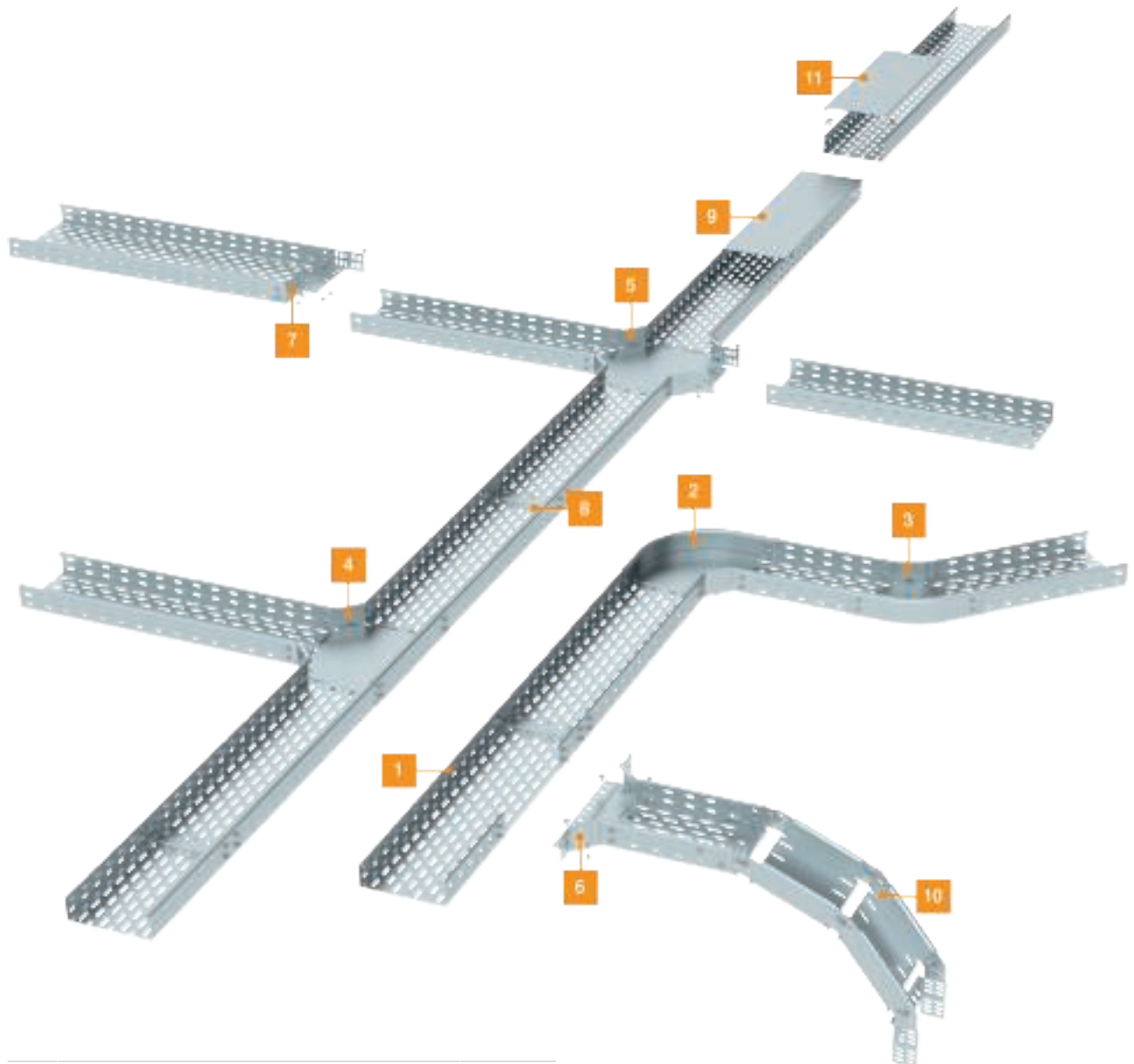
The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task. No matter whether used in dry inner areas or in aggressive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

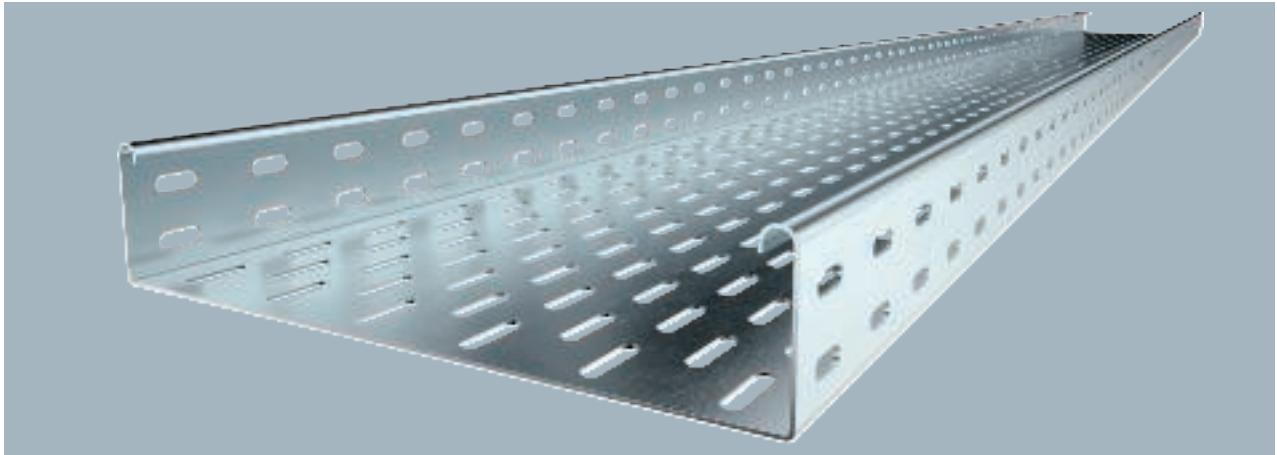
Installation principle



| | | |
|----|-------------------------------------|-------|
| 1 | SKS cable tray | SKS |
| 2 | 90° bend | RB 90 |
| 3 | 45° bend | RB 45 |
| 4 | T branch piece | RT |
| 5 | Cross-over | RK |
| 6 | Add-on tee | RAA |
| 7 | Reducer/stop-end | RWEB |
| 8 | Straight connectors and joint plate | TSG |
| 9 | Cover with turn buckle | DRL |
| 10 | Vertical bend element | RGBV |
| 11 | Adjustable bend element | RGBV |
| 12 | Unperforated cover with cover clamp | DRLU |

Cable tray SKS 60

St FS

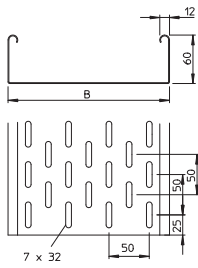


The cable tray, type SKS, should also be used for the maintenance of electrical function. For additional data, please refer to BSS fire protection systems.

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

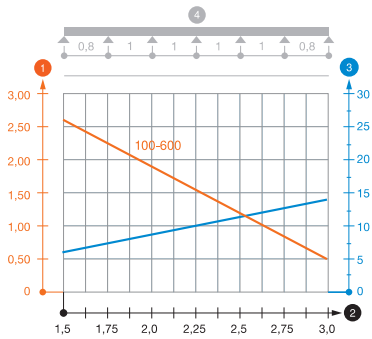
| Type | Width mm | Metal thick- ness mm | BS | Pack m | Weight kg/100 m | Item no. |
|------------|-------------|-------------------------------|----|-----------|--------------------|----------|
| SKS 610 FS | 100 | 1.50 | | 3 | 239.400 | 6056105 |
| SKS 620 FS | 200 | 1.50 | | 3 | 364.000 | 6056202 |
| 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 |

Dimensions



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

Load

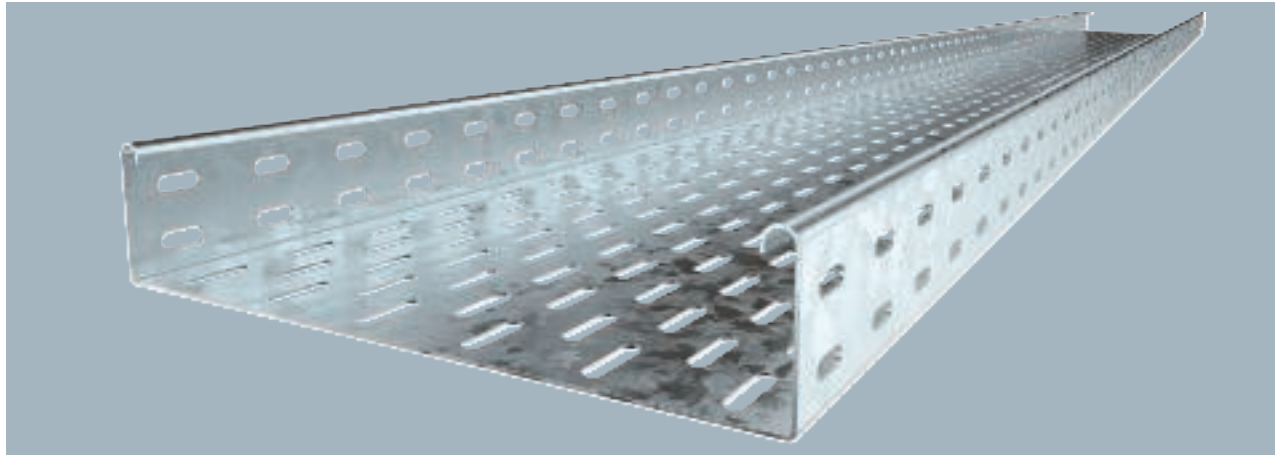


| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|------------|---------------|---------------|---------------|---------------|
| SKS 610 FS | 2.65 | 1.8 | 1.15 | 0.5 |
| SKS 620 FS | 2.65 | 1.8 | 1.15 | 0.5 |
| SKS 630 FS | 2.65 | 1.8 | 1.15 | 0.5 |
| SKS 640 FS | 2.65 | 1.8 | 1.15 | 0.5 |
|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

Load diagram, cable tray, type SKS 60

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

Cable tray SKS 60



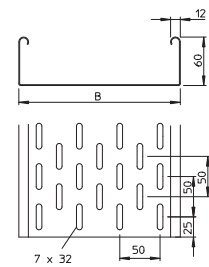
| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|------------|-------------|-------------------------------|-----------|--------------------|----------|
| SKS 610 FT | 100 | 1.50 | 3 | 277.000 | 6056636 |
| SKS 620 FT | 200 | 1.50 | 3 | 380.000 | 6056652 |
| SKS 630 FT | 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 |

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.

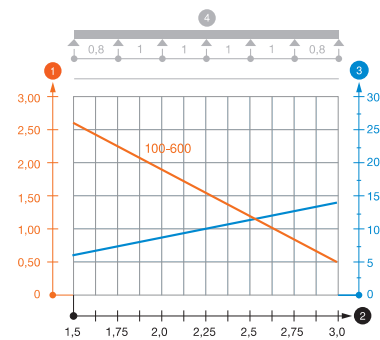
| Type | Length mm | Dim. B mm | Usable cross- section cm ² |
|------------|--------------|-----------------|--|
| SKS 610 FT | 3000 | 100 | 58 |
| SKS 620 FT | 3000 | 200 | 118 |
| SKS 630 FT | 3000 | 300 | 178 |
| SKS 640 FT | 3000 | 400 | 238 |
| SKS 650 FT | 3000 | 500 | 298 |
| SKS 660 FT | 3000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

Dimensions



| | 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 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 |

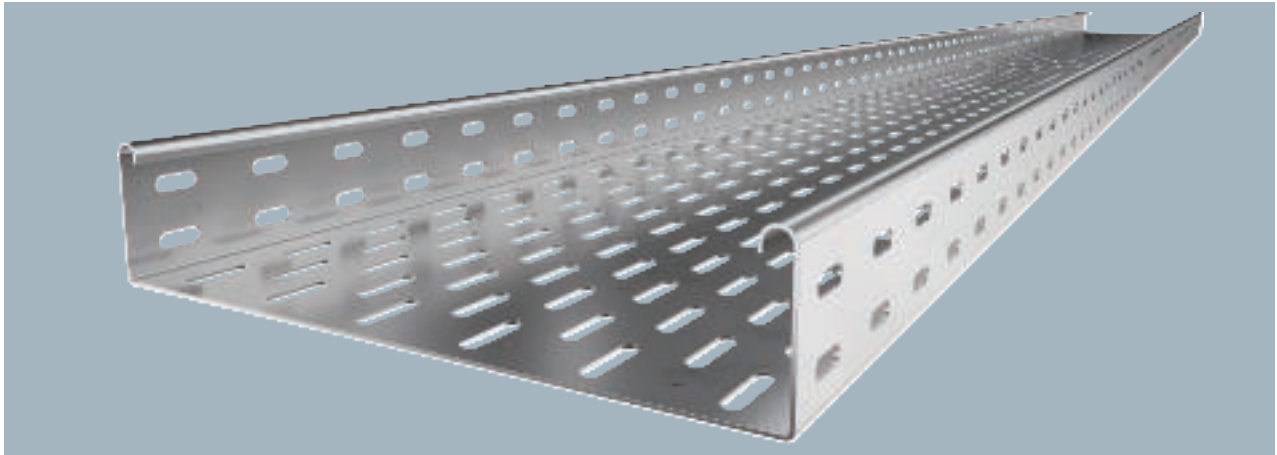
Load



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

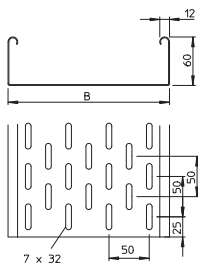
Cable tray SKS 60



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

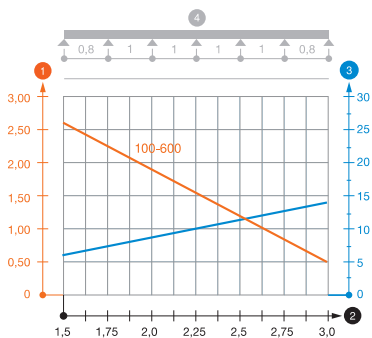
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|------------|-------------|-----------------------|-----------|--------------------|----------|
| SKS 610 A2 | 100 | 1.50 | 3 | 260.000 | 6056735 |
| SKS 620 A2 | 200 | 1.50 | 3 | 356.667 | 6056737 |
| SKS 630 A2 | 300 | 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 cm² |
|------------|--------------|--------------|-----------------------------|
| 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

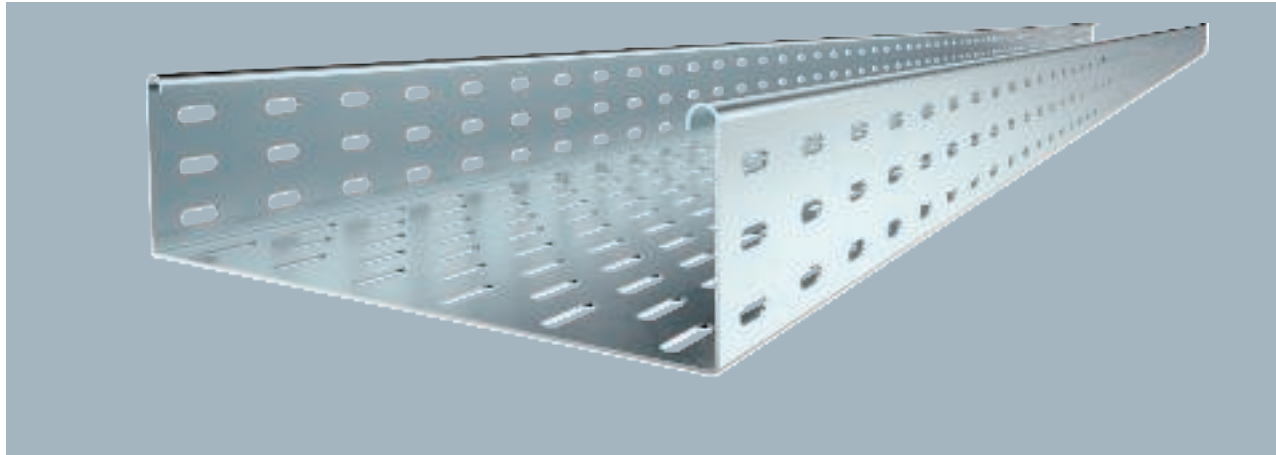


| Type | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|------------|---------------|---------------|---------------|---------------|
| SKS 610 A2 | 2.65 | 1.8 | 1.15 | 0.5 |
| SKS 620 A2 | 2.65 | 1.8 | 1.15 | 0.5 |
| SKS 630 A2 | 2.65 | 1.8 | 1.15 | 0.5 |
| SKS 640 A2 | 2.65 | 1.8 | 1.15 | 0.5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

Load diagram, cable tray, type SKS 60

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

Cable tray SKS 85

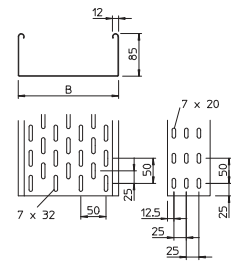


| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|------------|-------------|-------------------------------|-----------|--------------------|----------|
| SKS 810 FS | 100 | 1.50 | 3 | 310.340 | 6058108 |
| SKS 820 FS | 200 | 1.50 | 3 | 429.000 | 6058205 |
| SKS 830 FS | 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 |

FS version includes connector, type RLVL 85.
SKS 85 = heavy-duty cable tray system with 85 mm side height.

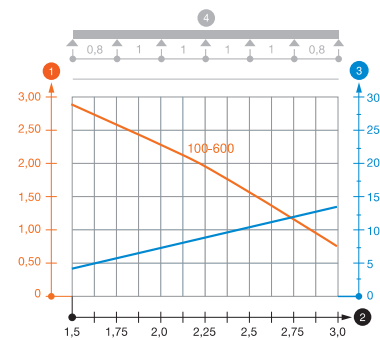
| Type | Length mm | Dim. B mm | Usable dim. cross- section cm ² |
|------------|--------------|--------------|---|
| SKS 810 FS | 3000 | 100 | 83 |
| SKS 820 FS | 3000 | 200 | 186 |
| SKS 830 FS | 3000 | 300 | 253 |
| SKS 840 FS | 3000 | 400 | 338 |
| SKS 850 FS | 3000 | 500 | 423 |
| SKS 860 FS | 3000 | 600 | 508 |

Dimensions



| | 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

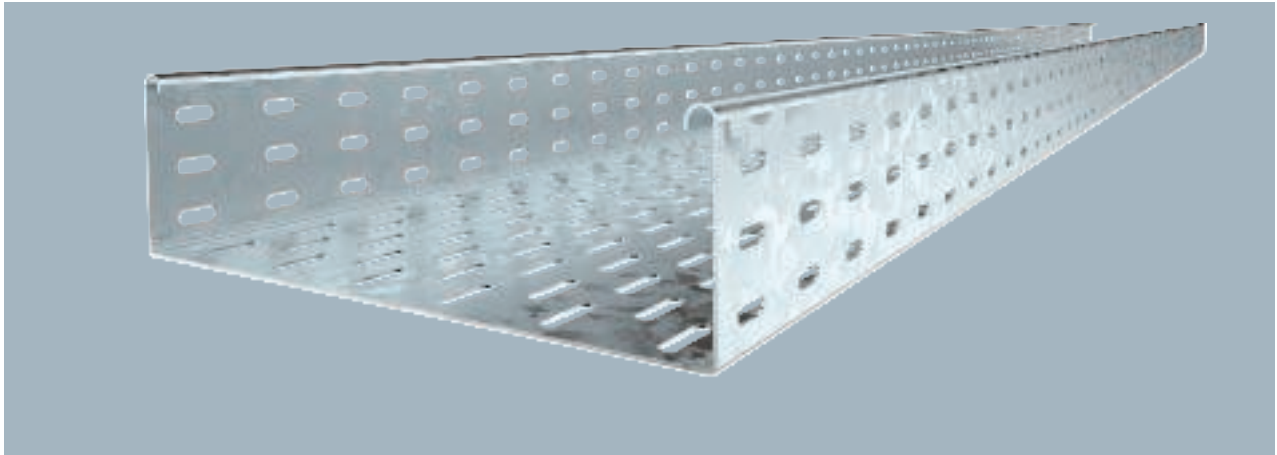


Load diagram, cable tray, type SKS 85

- 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



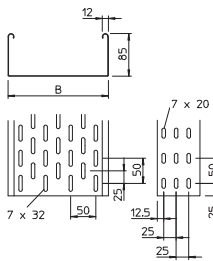
Cable tray SKS 85



SKS 85 = heavy-duty cable tray system with 85 mm side height.

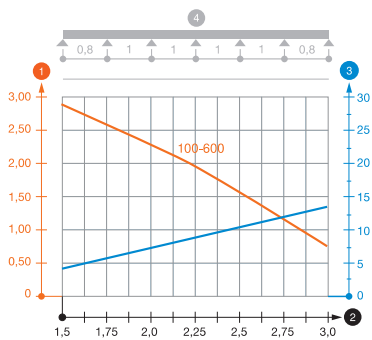
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|------------|-------------|--------------------------|-----------|--------------------|----------|
| SKS 810 FT | 100 | 1.50 | 3 | 334.000 | 6058620 |
| SKS 820 FT | 200 | 1.50 | 3 | 438.340 | 6058647 |
| SKS 830 FT | 300 | 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 |

Dimensions



| Type | Length mm | Usable Dim. B mm | cross- section cm ² |
|------------|--------------|------------------------|--------------------------------------|
| SKS 810 FT | 3000 | 100 | 83 |
| 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 |

Load

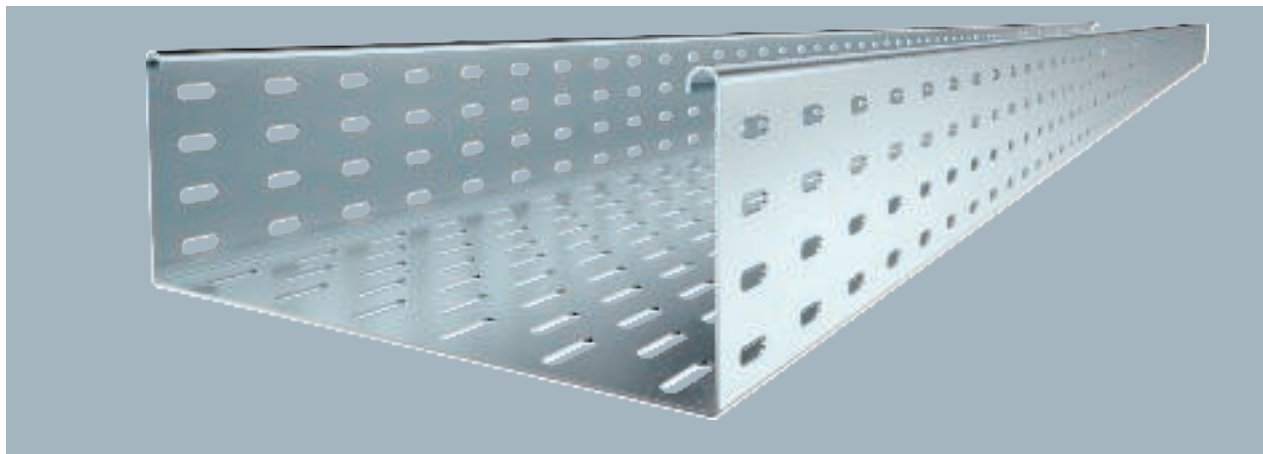


| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|------------|---------------|---------------|---------------|---------------|
| SKS 810 FT | 2.8 | 2.25 | 1.5 | 0.75 |
| SKS 820 FT | 2.8 | 2.25 | 1.5 | 0.75 |
| SKS 830 FT | 2.8 | 2.25 | 1.5 | 0.75 |
| SKS 840 FT | 2.8 | 2.25 | 1.5 | 0.75 |
|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

Load 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 110

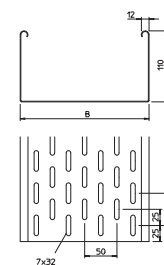


| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|------------|-------------|-------------------------------|-----------|--------------------|----------|
| SKS 110 FS | 100 | 1.50 | 3 | 386.000 | 6061109 |
| SKS 120 FS | 200 | 1.50 | 3 | 486.340 | 6061206 |
| SKS 130 FS | 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.

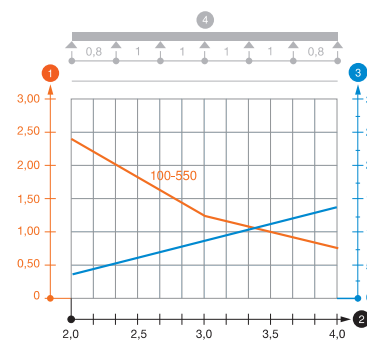
| Type | Length mm | Dim. B mm | Usable cross- section cm ² |
|------------|--------------|-----------------|--|
| SKS 110 FS | 3000 | 100 | 108 |
| SKS 120 FS | 3000 | 200 | 218 |
| SKS 130 FS | 3000 | 300 | 328 |
| SKS 140 FS | 3000 | 400 | 438 |
| SKS 150 FS | 3000 | 500 | 548 |
| SKS 155 FS | 3000 | 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

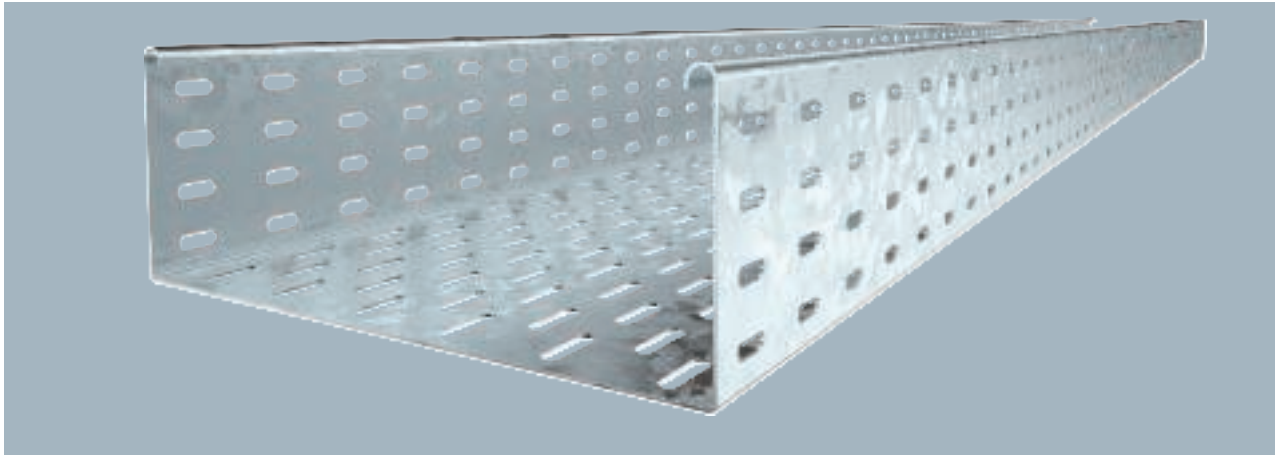


Load diagram, cable tray, type SKS 110

- 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



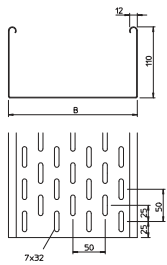
Cable tray SKS 110



SKS 110 = heavy-duty cable tray system with 110 mm side height.

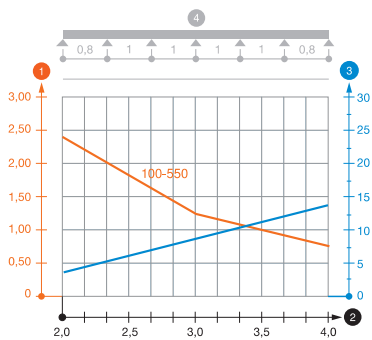
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|------------|-------------|--------------------------|-----------|--------------------|----------|
| SKS 110 FT | 100 | 1.50 | 3 | 388.680 | 6061605 |
| SKS 120 FT | 200 | 1.50 | 3 | 494.000 | 6061621 |
| SKS 130 FT | 300 | 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 | Usable Dim. B mm | 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

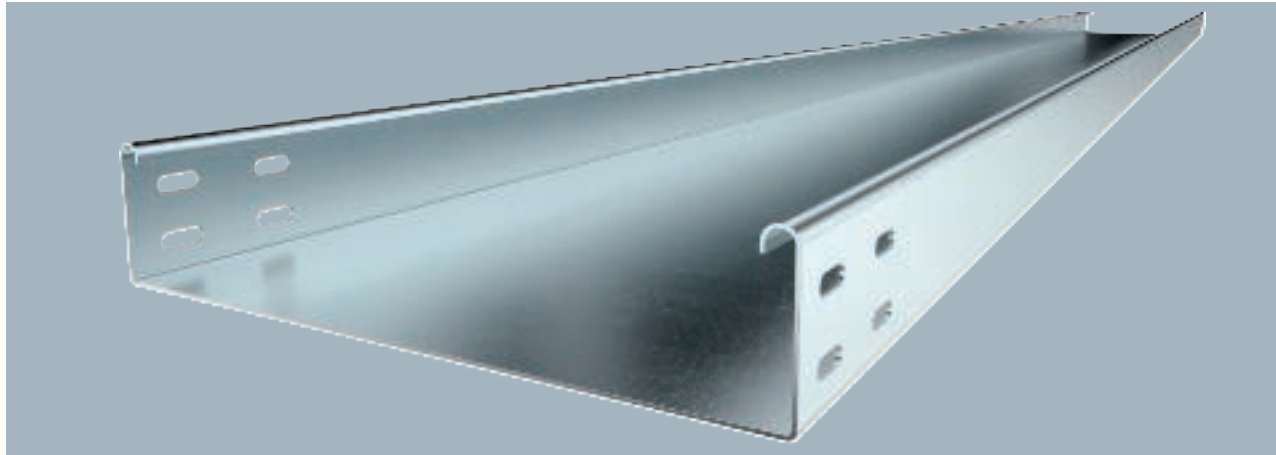


| | 1.5 m | 2.0 m | 3.0 m | 4.0 m |
|------------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/m | kN/m |
| SKS 110 FT | 3 | 2.4 | 1.2 | 0.8 |
| SKS 120 FT | 3 | 2.4 | 1.2 | 0.8 |
| SKS 130 FT | 3 | 2.4 | 1.2 | 0.8 |
| SKS 140 FT | 3 | 2.4 | 1.2 | 0.8 |
| SKS 150 FT | 3 | 2.4 | 1.2 | 0.8 |
| 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 SKSU 60



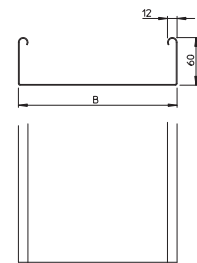
| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|-------------|-------------------------------|-----------|--------------------|----------|
| SKSU 610 FS | 100 | 1.50 | 3 | 286.000 | 6063234 |
| SKSU 620 FS | 200 | 1.50 | 3 | 399.670 | 6063236 |
| SKSU 630 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.

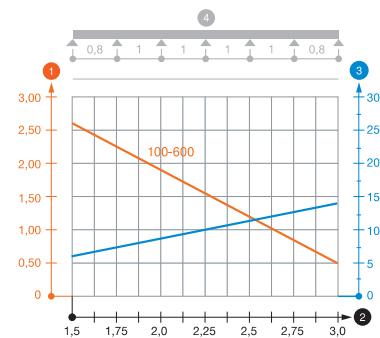
| Type | Length mm | Dim. B mm | Usable cross- section cm ² |
|-------------|--------------|-----------------|--|
| SKSU 610 FS | 3000 | 100 | 58 |
| SKSU 620 FS | 3000 | 200 | 118 |
| SKSU 630 FS | 3000 | 300 | 178 |
| SKSU 640 FS | 3000 | 400 | 238 |
| SKSU 650 FS | 3000 | 500 | 298 |
| SKSU 660 FS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

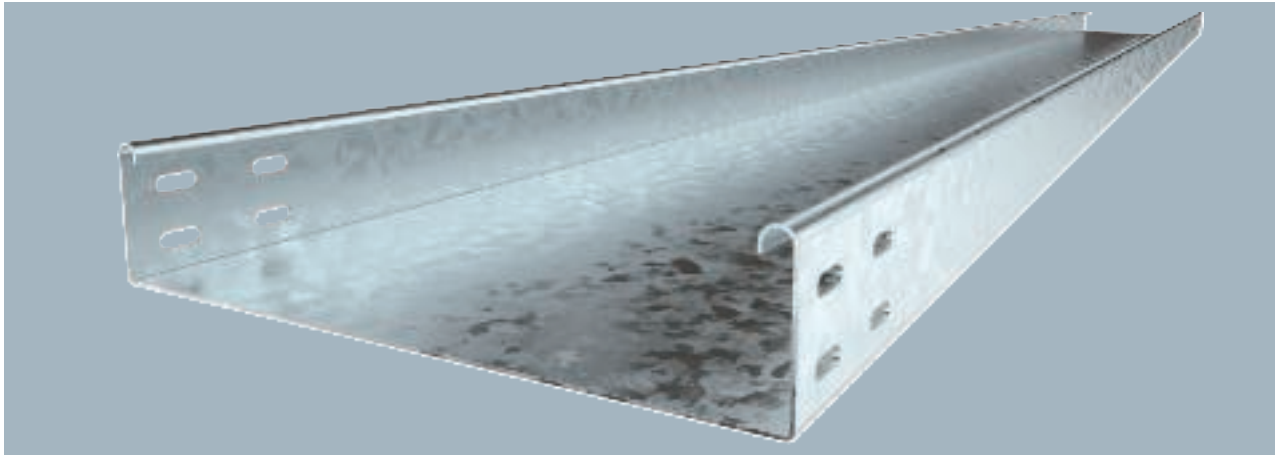


Load diagram, cable tray, type SKSU 60

- 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

St FT

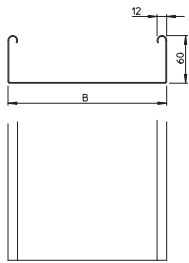
Cable tray SKSU 60



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.

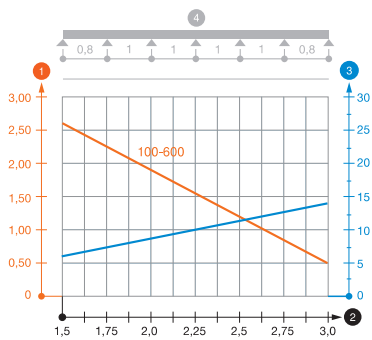
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|----------|--------------------|--------|-----------------|----------|
| SKSU 610 FT | 100 | 1.50 | 3 | 302.670 | 6064307 |
| SKSU 620 FT | 200 | 1.50 | 3 | 427.340 | 6064353 |
| SKSU 630 FT | 300 | 1.50 | 3 | 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 cm² |
|-------------|-----------|-----------|--------------------------|
| 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

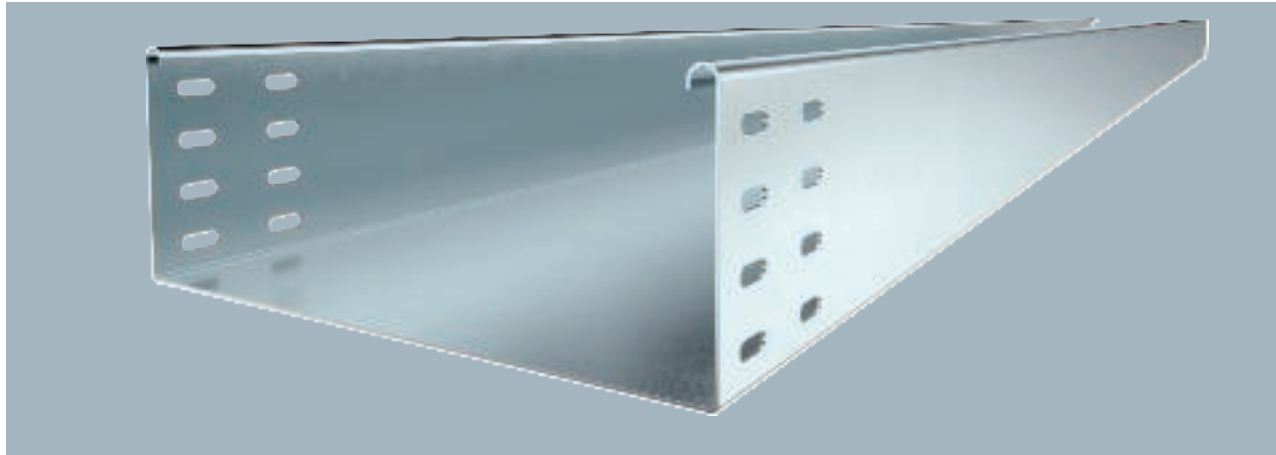


| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|-------------|------------|------------|------------|------------|
| SKSU 610 FT | 2.6 | 1.9 | 1.1 | 0.55 |
| SKSU 620 FT | 2.6 | 1.9 | 1.1 | 0.55 |
| SKSU 630 FT | 2.6 | 1.9 | 1.1 | 0.55 |
| SKSU 640 FT | 2.6 | 1.9 | 1.1 | 0.55 |
| SKSU 650 FT | 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 SKSU 110

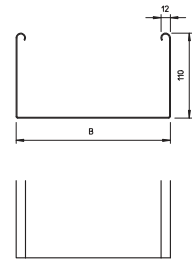


| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|-------------|-------------------------------|-----------|--------------------|----------|
| SKSU 110 FS | 100 | 1.50 | 3 | 404.000 | 6063403 |
| SKSU 120 FS | 200 | 1.50 | 3 | 520.000 | 6063438 |
| SKSU 130 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.

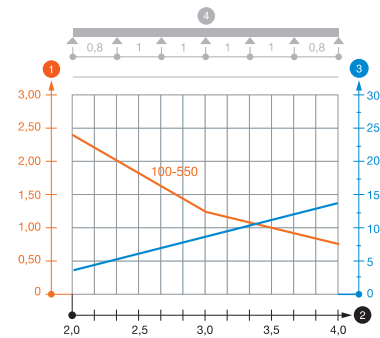
| Type | Length mm | Dim. B mm | Usable cross- section cm ² |
|-------------|--------------|--------------|--|
| SKSU 110 FS | 3000 | 100 | 108 |
| SKSU 120 FS | 3000 | 200 | 218 |
| SKSU 130 FS | 3000 | 300 | 328 |
| SKSU 140 FS | 3000 | 400 | 438 |
| SKSU 150 FS | 3000 | 500 | 548 |
| SKSU 155 FS | 3000 | 550 | 603 |

Dimensions



| | 1.5 m kN/m | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|-------------|---------------|---------------|---------------|---------------|
| SKSU 110 FS | 3 | 2.4 | 1.2 | 0.8 |
| SKSU 120 FS | 3 | 2.4 | 1.2 | 0.8 |
| SKSU 130 FS | 3 | 2.4 | 1.2 | 0.8 |
| SKSU 140 FS | 3 | 2.4 | 1.2 | 0.8 |
| SKSU 150 FS | 3 | 2.4 | 1.2 | 0.8 |
| SKSU 155 FS | 3 | 2.4 | 1.2 | 0.8 |

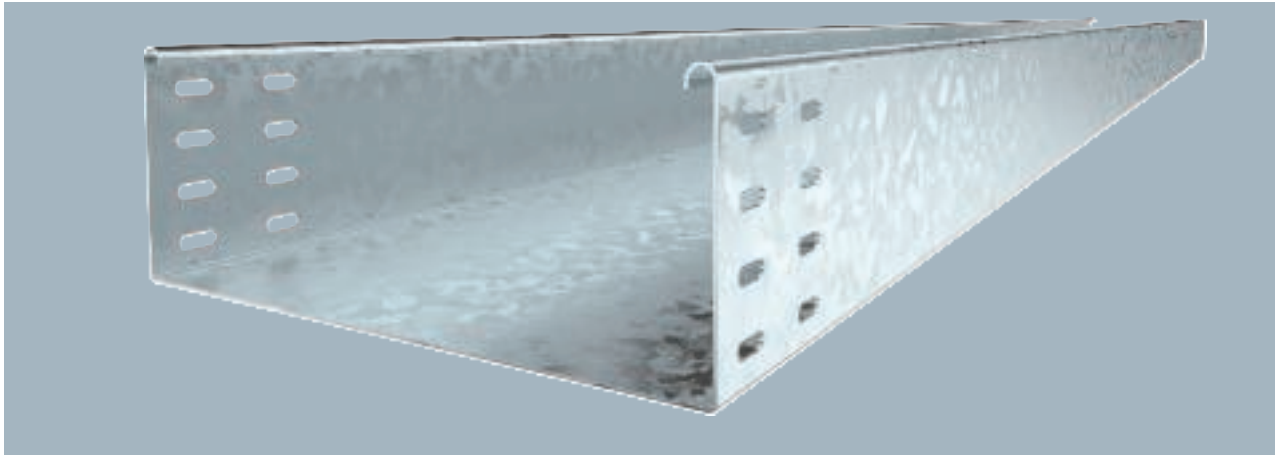
Load



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

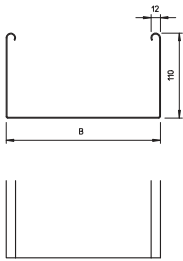
Cable tray SKSU 110



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.

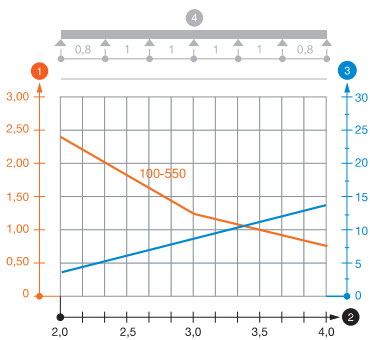
| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|-------------|-------------------------------|-----------|--------------------|----------|
| SKSU 110 FT | 100 | 1.50 | 3 | 406.700 | 6064795 |
| SKSU 120 FT | 200 | 1.50 | 3 | 551.340 | 6064833 |
| SKSU 130 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 |

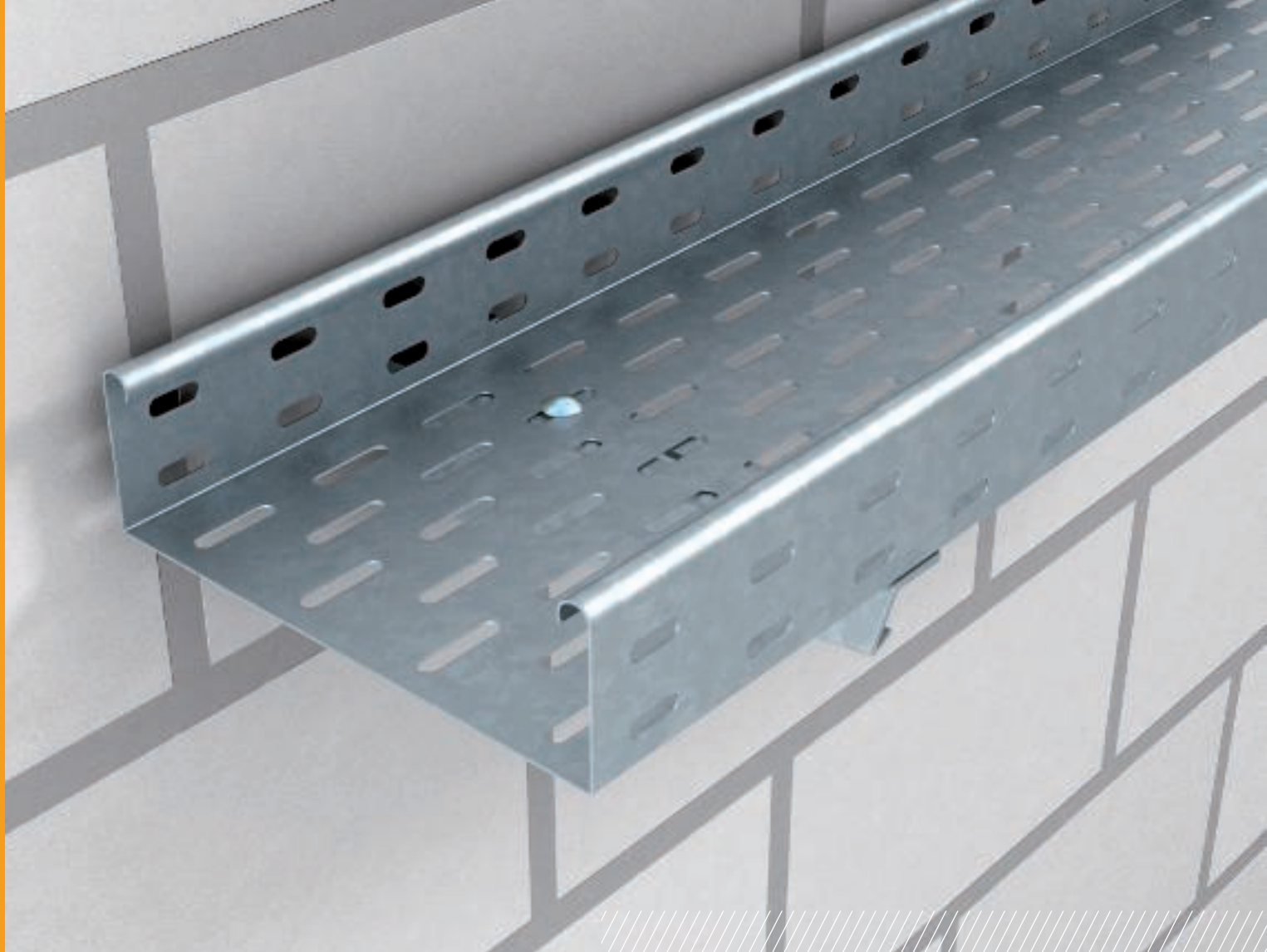
Load



| | 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

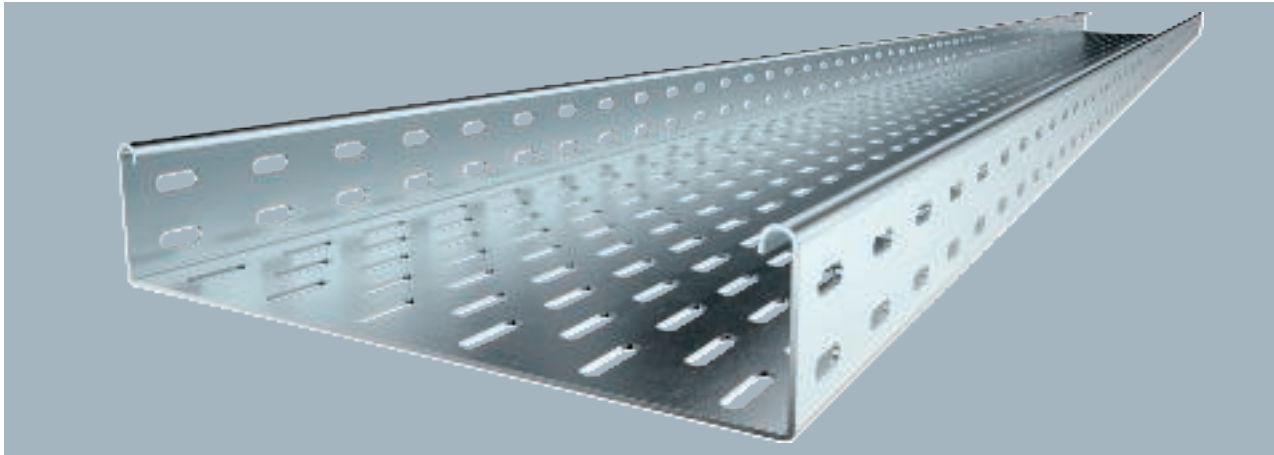


Cable tray system EKS

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

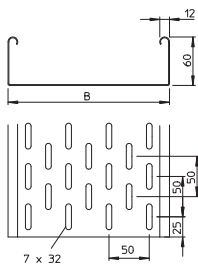
Cable tray EKS 60



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

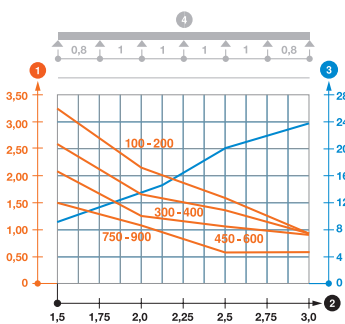
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|------------|-------------|-----------------------|-----------|--------------------|----------|
| EKS 610 FS | 100 | 2.00 | 3 | 341.340 | 6056148 |
| EKS 620 FS | 200 | 2.00 | 3 | 471.670 | 6056229 |
| EKS 630 FS | 300 | 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

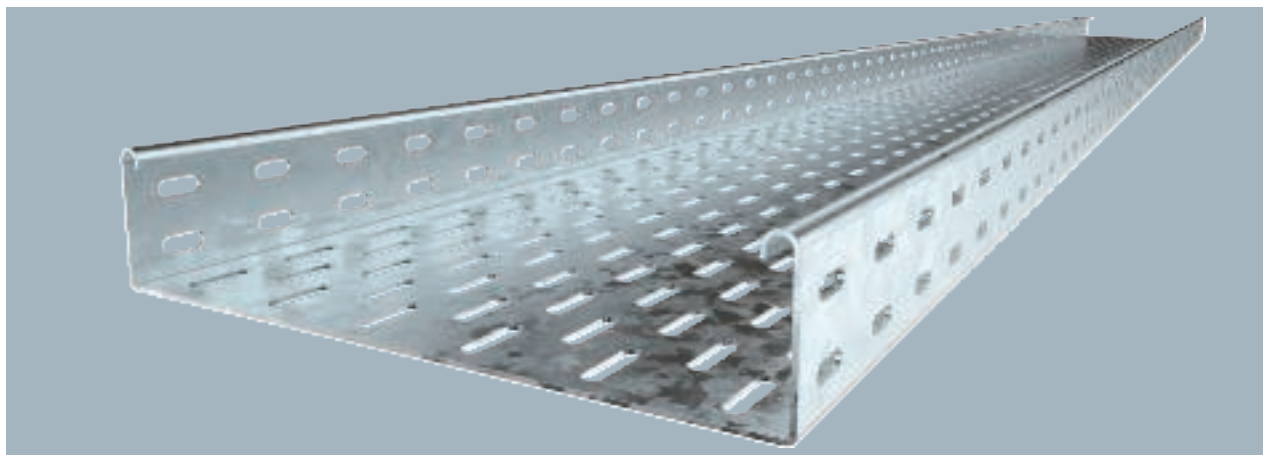


| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|------------|---------------|---------------|---------------|---------------|
| EKS 610 FS | 3.3 | 2.2 | 1.6 | 0.95 |
| EKS 620 FS | 3.3 | 2.2 | 1.6 | 0.95 |
| EKS 630 FS | 2.6 | 1.7 | 1.4 | 0.95 |
| EKS 640 FS | 2.6 | 1.7 | 1.4 | 0.95 |
| EKS 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



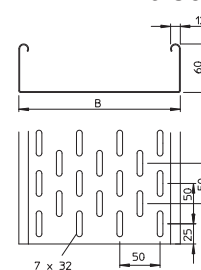
| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|------------|-------------|-------------------------------|-----------|--------------------|----------|
| EKS 610 FT | 100 | 2.00 | 3 | 358.340 | 6056776 |
| EKS 620 FT | 200 | 2.00 | 3 | 493.000 | 6056792 |
| EKS 630 FT | 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.

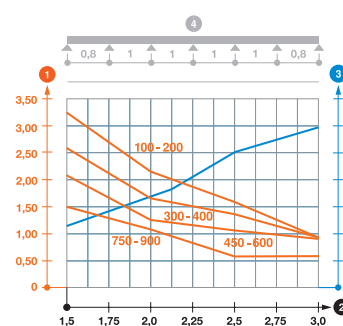
| Type | Length mm | Dim. B mm | Usable cross- section cm ² |
|------------|--------------|-----------------|--|
| EKS 610 FT | 3000 | 100 | 58 |
| EKS 620 FT | 3000 | 200 | 118 |
| EKS 630 FT | 3000 | 300 | 178 |
| EKS 640 FT | 3000 | 400 | 238 |
| EKS 650 FT | 3000 | 500 | 298 |
| EKS 660 FT | 3000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

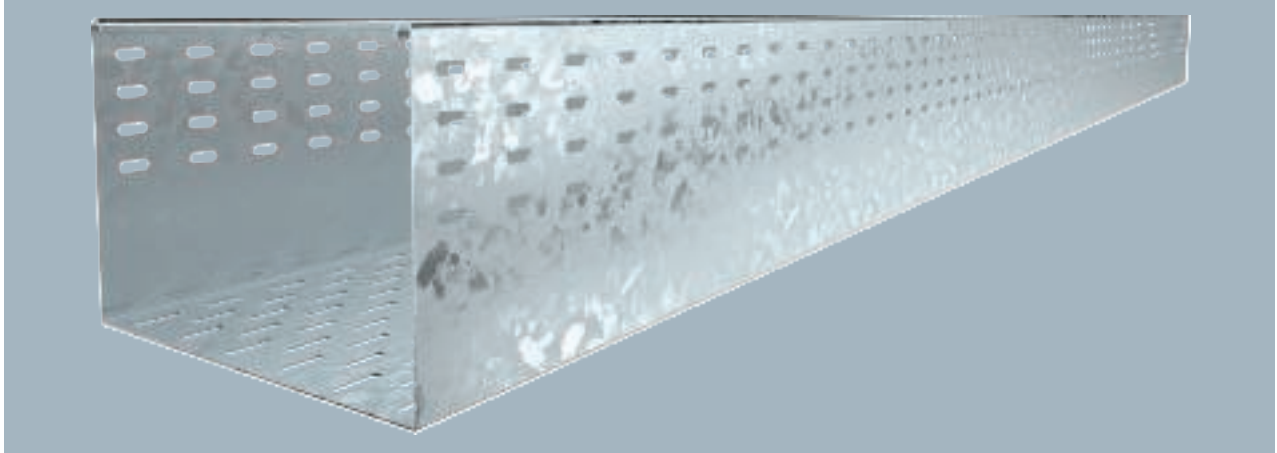
Load



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

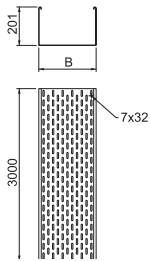
Cable tray MFR 200



MFR = mobile radio tray
 Magnetic shield insulation without cover 20 dB, with cover 50 dB.

| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|------------|-------------|-------------------------------|-----------|--------------------|----------|
| | | | | | |
| MFR 230 FT | 300 | 1.50 | 3 | 825.767 | 6083060 |
| MFR 240 FT | 400 | 1.50 | 3 | 930.066 | 6083064 |

Dimensions



| Type | Length mm | Dim. B mm | Usable cross- section cm ² |
|------------|--------------|-----------------|--|
| | | | |
| MFR 230 FT | 3000 | 300 | 600 |
| MFR 240 FT | 3000 | 400 | 800 |



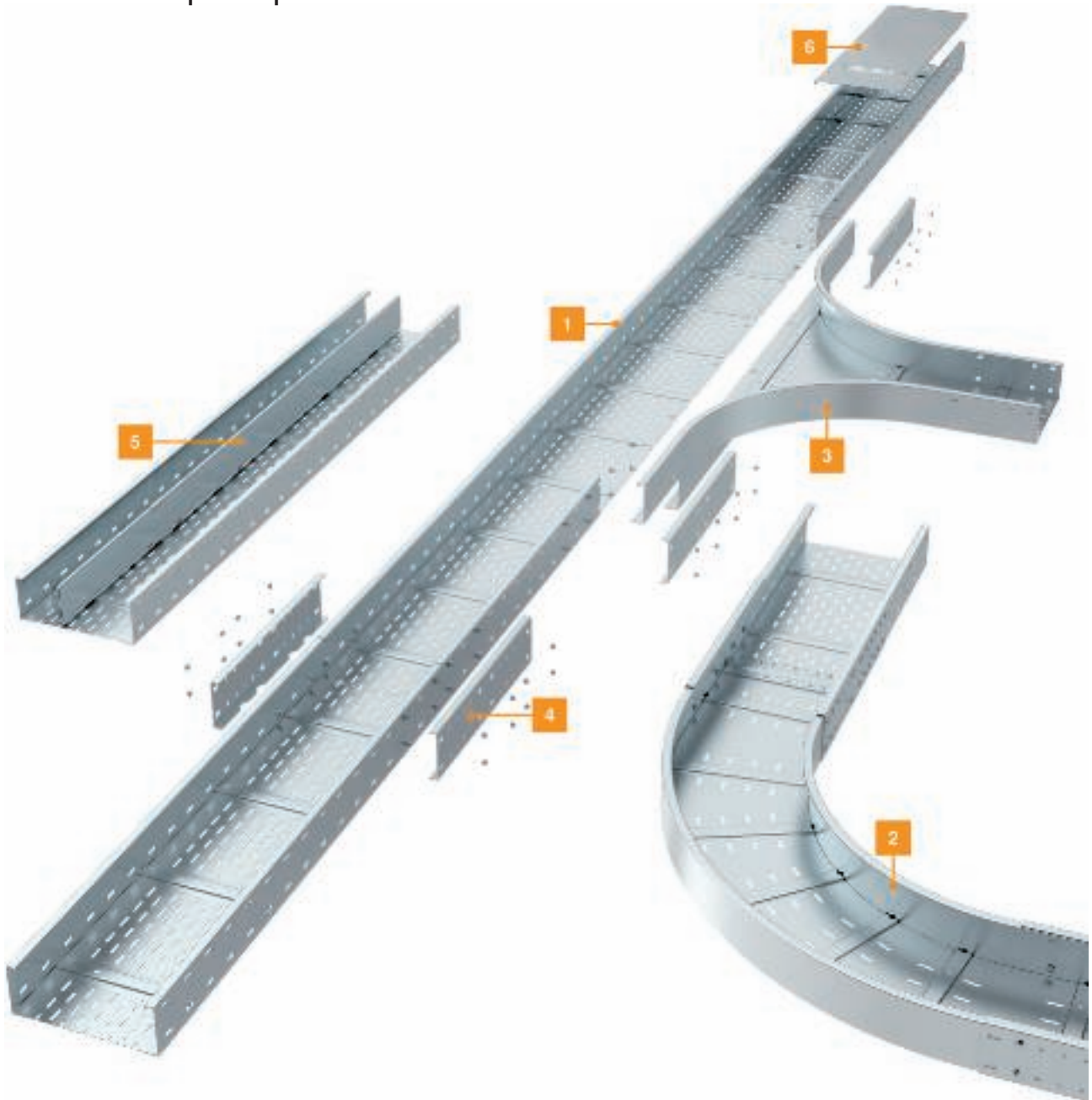
Wide span cable tray systems

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.



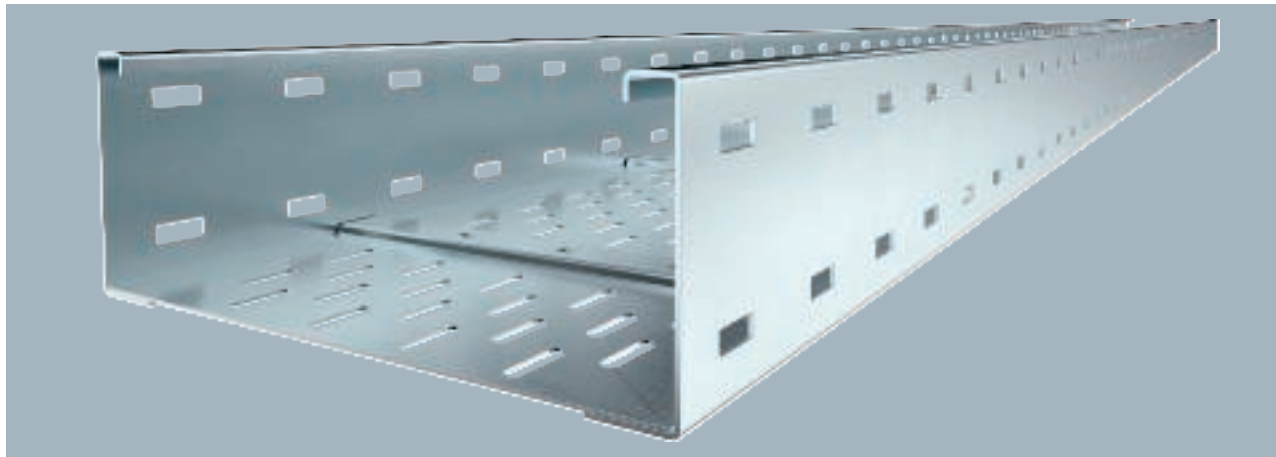
Wide span cable tray systems

Installation principle



| | | |
|---|------------------------|--------|
| 1 | Wide span cable tray | WKSG |
| 2 | 90° bend | WRB 90 |
| 3 | Add-on tee | WRAA |
| 4 | Straight connector | RLVL |
| 5 | Barrier strip | TSGV |
| 6 | Cover with turn buckle | DRL |

Wide span cable tray WKSG 110



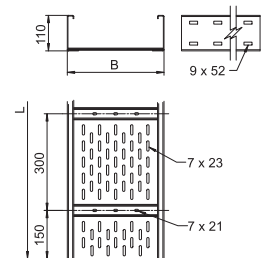
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|----------|--------------------|--------|-----------------|----------|
| WKSG 120 FS | 200 | 2.00 | 6 | 712.610 | 6098111 |
| WKSG 130 FS | 300 | 2.00 | 6 | 817.250 | 6098115 |
| WKSG 140 FS | 400 | 2.00 | 6 | 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 |

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.

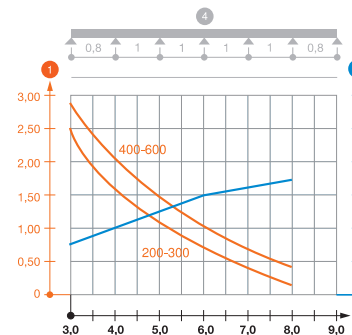
| Type | Dim. L mm | Dim. B mm | Usable cross-section cm ² |
|-------------|-----------|-----------|--------------------------------------|
| WKSG 120 FS | 6000 | 200 | 202 |
| WKSG 130 FS | 6000 | 300 | 305 |
| WKSG 140 FS | 6000 | 400 | 408 |
| WKSG 150 FS | 6000 | 500 | 511 |
| WKSG 160 FS | 6000 | 600 | 614 |

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 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 |

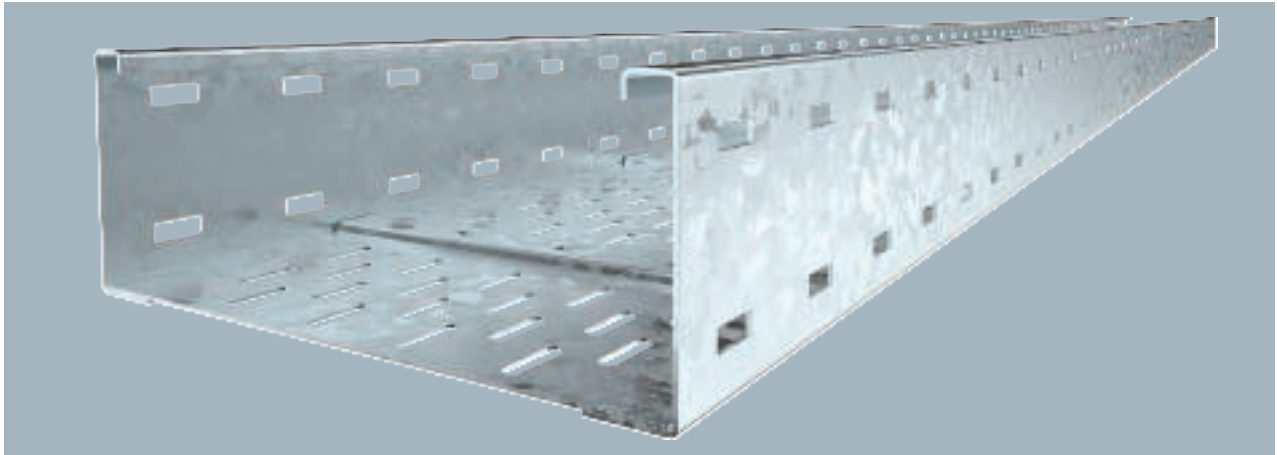
Load



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

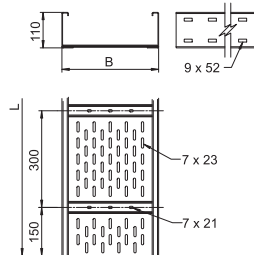


Wide span cable tray system, perforated, with a side height of 110 mm.

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

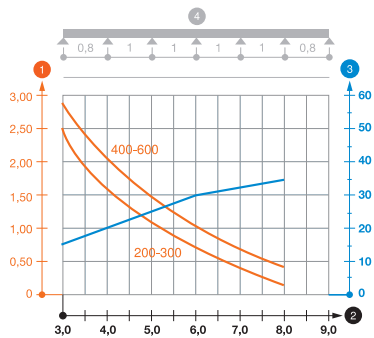
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|----------|--------------------|--------|-----------------|----------|
| WKSG 120 FT | 200 | 2,00 | 6 | 751.570 | 6098141 |
| WKSG 130 FT | 300 | 2,00 | 6 | 863.150 | 6098145 |
| WKSG 140 FT | 400 | 2,00 | 6 | 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 |

Dimensions



| 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 |

Load

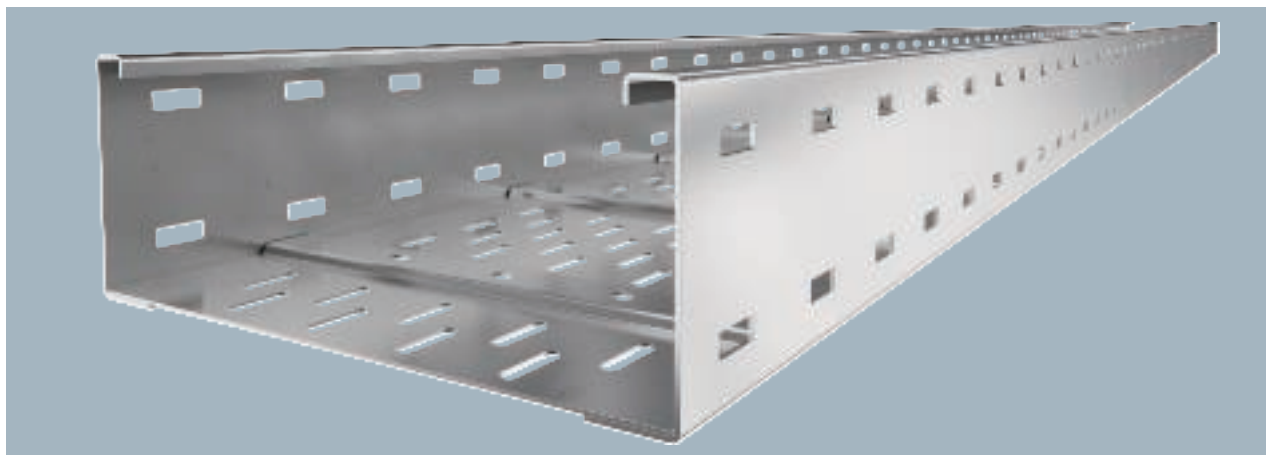


| | 3.0 m kN/m | 4.0 m kN/m | 5.0 m kN/m | 6.0 m kN/m | 7.0 m kN/m | 8.0 m kN/m |
|-------------|------------|------------|------------|------------|------------|------------|
| WKSG 120 FT | 2.5 | 1.6 | 1.1 | 0.75 | 0.45 | 0.2 |
| WKSG 130 FT | 2.5 | 1.6 | 1.1 | 0.75 | 0.45 | 0.2 |
| WKSG 140 FT | 2.9 | 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 diagram, wide span cable tray, type WKSG 110

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

Wide span cable tray WKSG 110



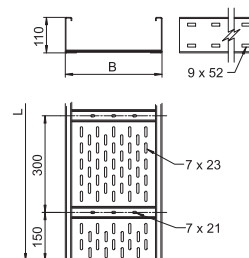
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|----------|--------------------|--------|-----------------|----------|
| WKSG 120 A2 | 200 | 2.00 | 6 | 713.833 | 6098161 |
| WKSG 130 A2 | 300 | 2.00 | 6 | 821.933 | 6098165 |
| WKSG 140 A2 | 400 | 2.00 | 6 | 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 |

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.

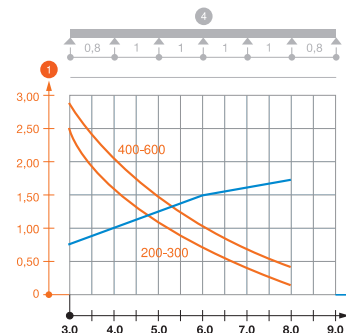
| Type | Dim. L mm | Dim. B mm | Usable cross-section cm ² |
|-------------|-----------|-----------|--------------------------------------|
| WKSG 120 A2 | 6000 | 200 | 202 |
| WKSG 130 A2 | 6000 | 300 | 305 |
| WKSG 140 A2 | 6000 | 400 | 408 |
| WKSG 150 A2 | 6000 | 500 | 511 |
| WKSG 160 A2 | 6000 | 600 | 614 |

Dimensions



| | 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 |

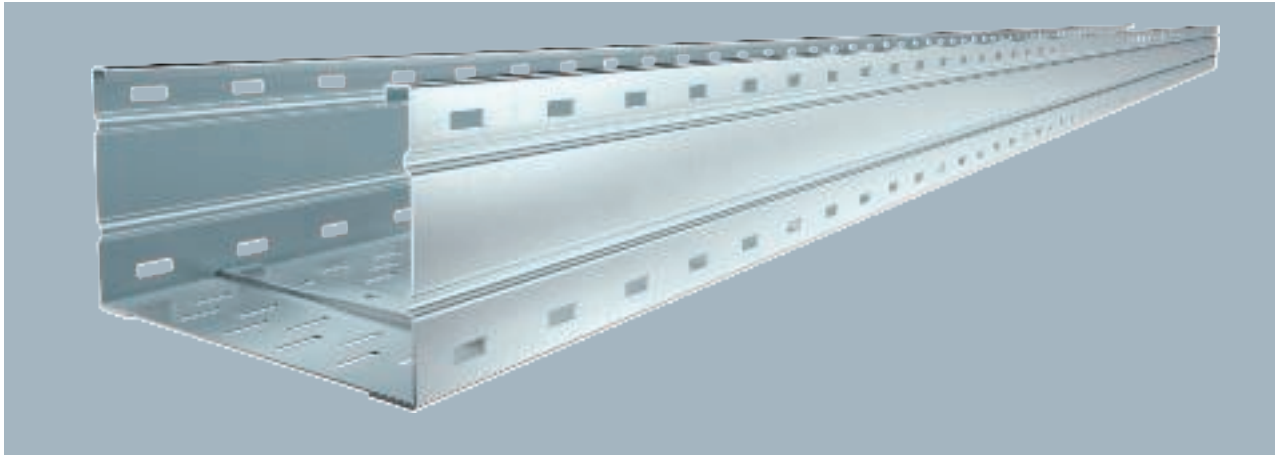
Load



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 160

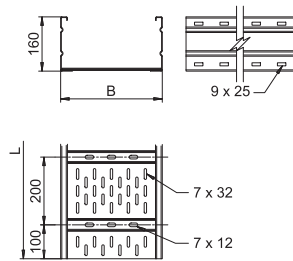


Straight connectors of type WRV 160 should be ordered separately and in the appropriate quantity.

Wide span cable tray system, perforated, with a side height of 160 mm.

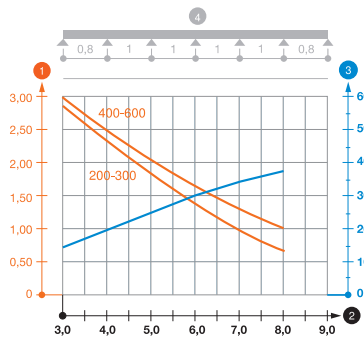
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|----------|--------------------|--------|-----------------|----------|
| WKSG 162 FS | 200 | 2.00 | 6 | 895.067 | 6098501 |
| WKSG 163 FS | 300 | 2.00 | 6 | 1,003.170 | 6098505 |
| WKSG 164 FS | 400 | 2.00 | 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 |

Dimensions



| 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 |

Load

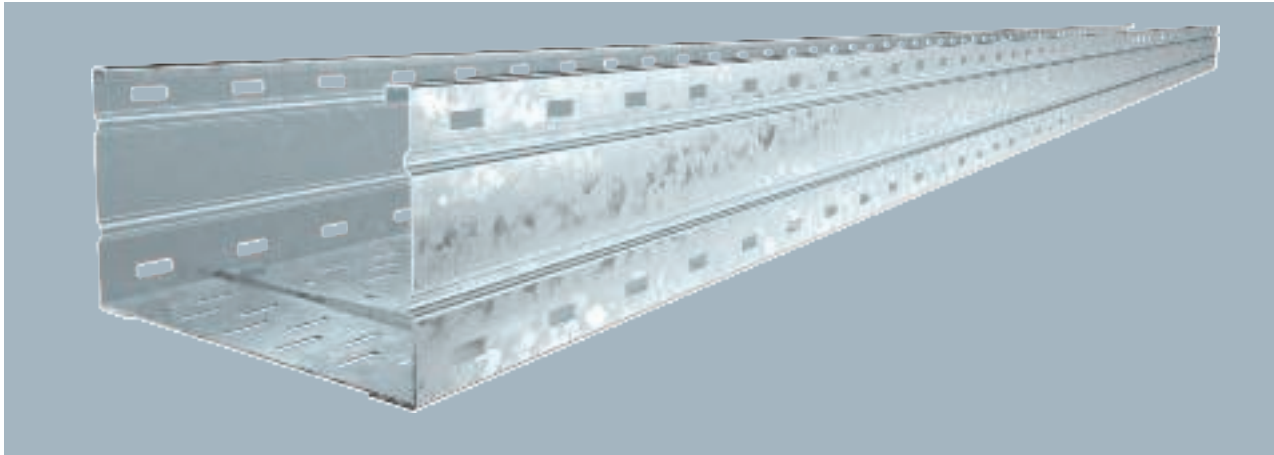


| | 3.0 m | 4.0 m | 5.0 m | 6.0 m | 7.0 m | 8.0 m |
|-------------|-------|-------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/m | kN/m | kN/m | kN/m |
| WKSG 162 FS | 2.9 | 2.3 | 1.8 | 1.4 | 1 | 0.7 |
| WKSG 163 FS | 2.9 | 2.3 | 1.8 | 1.4 | 1 | 0.7 |
| WKSG 164 FS | 3 | 2.5 | 2 | 1.6 | 1.3 | 1 |
| WKSG 165 FS | 3 | 2.5 | 2 | 1.6 | 1.3 | 1 |
| WKSG 166 FS | 3 | 2.5 | 2 | 1.6 | 1.3 | 1 |

Load diagram, wide span cable tray, type WKSG 160

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

Wide span cable tray WKSG 160



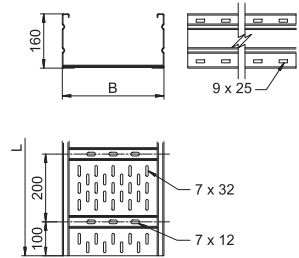
| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|-------------|-------------------------------|-----------|--------------------|----------|
| WKSG 162 FT | 200 | 2.00 | 6 | 943.090 | 6098550 |
| WKSG 163 FT | 300 | 2.00 | 6 | 1,058.370 | 6098554 |
| WKSG 164 FT | 400 | 2.00 | 6 | 1,170.520 | 6098558 |
| WKSG 165 FT | 500 | 2.00 | 6 | 1,285.770 | 6098562 |
| WKSG 166 FT | 600 | 2.00 | 6 | 1,401.040 | 6098566 |

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.

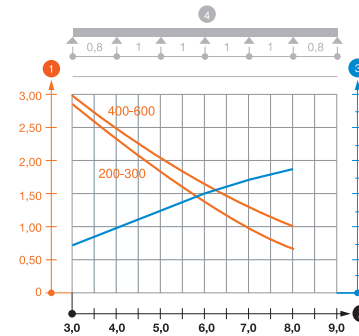
| Type | Dim. L mm | Dim. B mm | Usable cross- section cm ² |
|-------------|-----------------|-----------------|--|
| WKSG 162 FT | 6000 | 200 | 302 |
| WKSG 163 FT | 6000 | 300 | 455 |
| WKSG 164 FT | 6000 | 400 | 608 |
| WKSG 165 FT | 6000 | 500 | 761 |
| WKSG 166 FT | 6000 | 600 | 914 |

Dimensions



| | 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 |

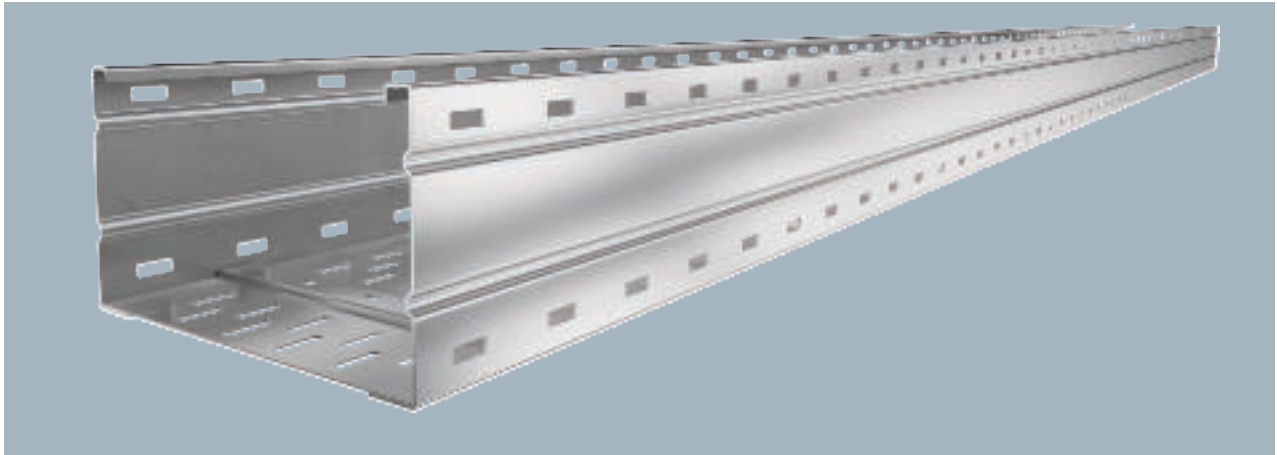
Load



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

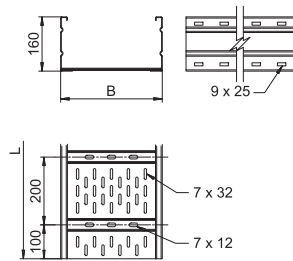


Straight connectors of type WRVL 160 should be ordered separately and in the appropriate quantity.

Wide span cable tray system, perforated, with a side height of 160 mm.

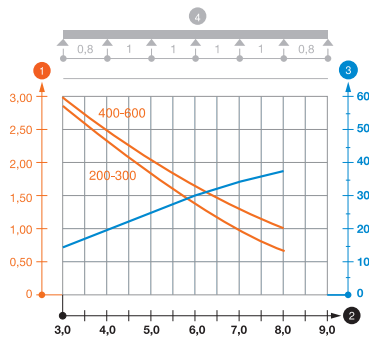
| Type | Width mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|----------|--------------------|--------|-----------------|----------|
| WKSG 162 A2 | 200 | 2.00 | 6 | 895.067 | 6098571 |
| WKSG 163 A2 | 300 | 2.00 | 6 | 1,003.167 | 6098573 |
| WKSG 164 A2 | 400 | 2.00 | 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 |

Dimensions



| 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 |

Load



| | 3.0 m kN/m | 4.0 m kN/m | 5.0 m kN/m | 6.0 m kN/m | 7.0 m kN/m | 8.0 m kN/m |
|-------------|------------|------------|------------|------------|------------|------------|
| WKSG 162 A2 | 2.9 | 2.3 | 1.8 | 1.4 | 1 | 0.7 |
| WKSG 163 A2 | 2.9 | 2.3 | 1.8 | 1.4 | 1 | 0.7 |
| WKSG 164 A2 | 3 | 2.5 | 2 | 1.6 | 1.3 | 1 |
| WKSG 165 A2 | 3 | 2.5 | 2 | 1.6 | 1.3 | 1 |
| WKSG 166 A2 | 3 | 2.5 | 2 | 1.6 | 1.3 | 1 |

Load diagram, wide span cable tray, type WKSG 160

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

Cable trays, marine standard

The OBO cable trays meet the highest requirements in shipbuilding, because we use particularly high-quality materials: Whether stainless steel or aluminium, electrogalvanised or hot-dip galvanised – all the components are always perfectly manufactured.

FS

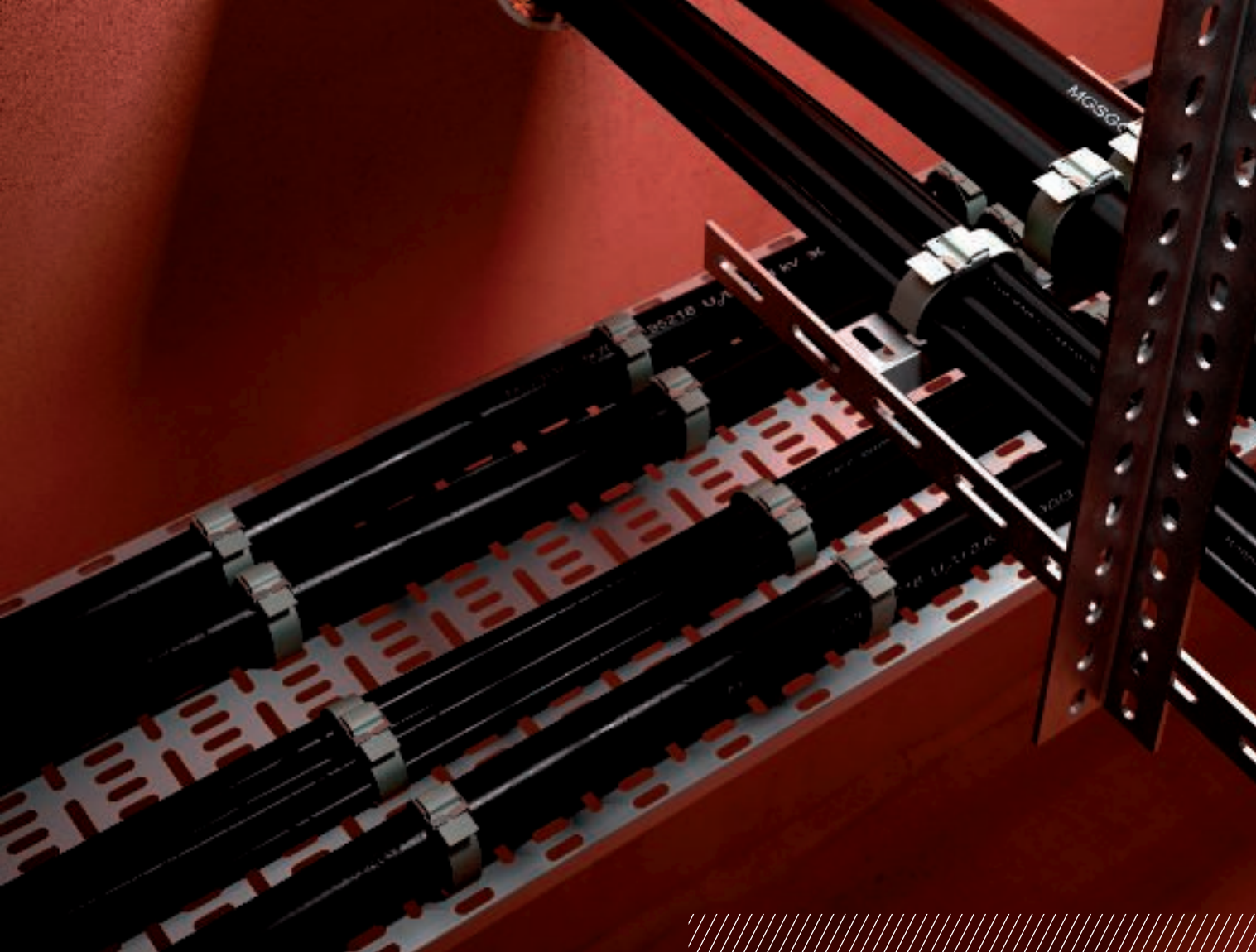
FT

A2

A4

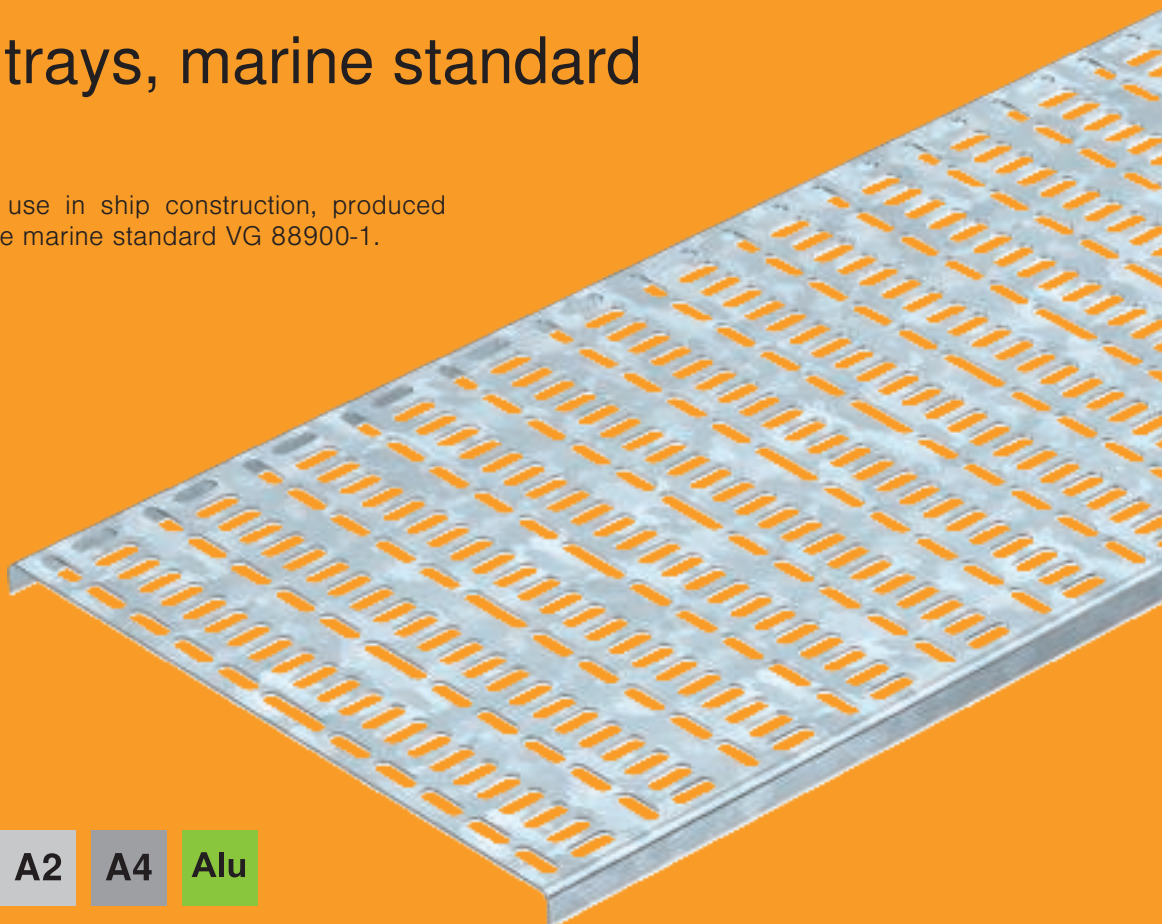
Alu

Spring chucks and tightening straps are available for simple installation and the latter are available in rolls or fixed lengths.



Cable trays, marine standard

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



FS

FT

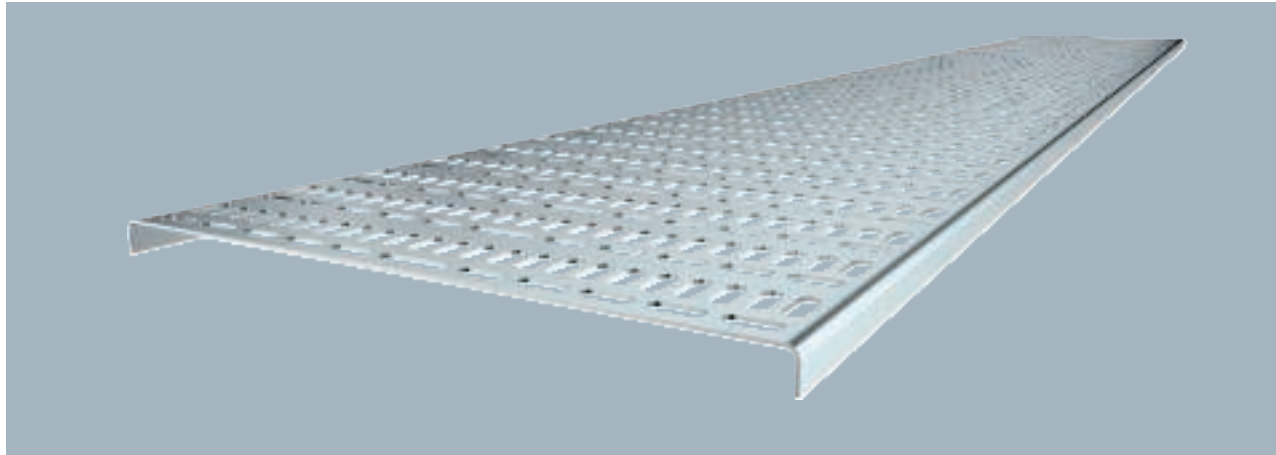
A2

A4

Alu

Cable tray, marine standard MKR 15

St FS

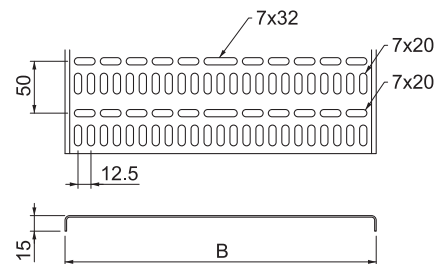


| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|----------------------|-------------|-------------------------------|-----------|--------------------|----------------|
| MKR 15 050 FS | 50 | 1.00 | 2 | 49.400 | 6045952 |
| MKR 15 075 FS | 75 | 1.00 | 2 | 63.700 | 6045960 |
| 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.

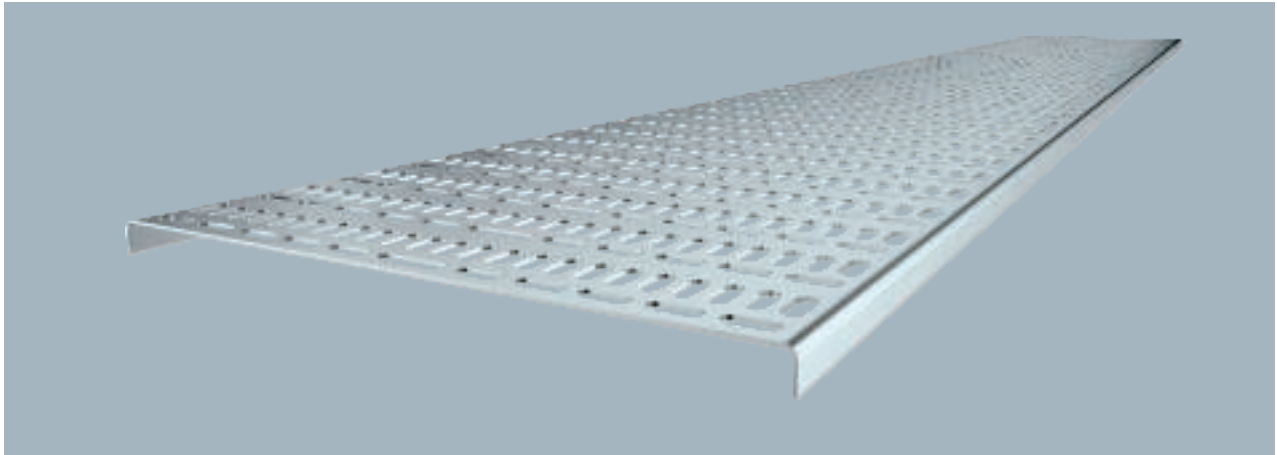
| Type | Length mm | Dim. B mm | Side height mm |
|---------------|--------------|--------------|----------------------|
| MKR 15 050 FS | 2000 | 50 | 15 |
| MKR 15 075 FS | 2000 | 75 | 15 |
| MKR 15 100 FS | 2000 | 100 | 15 |
| MKR 15 150 FS | 2000 | 150 | 15 |
| MKR 15 200 FS | 2000 | 200 | 15 |

Dimensions



St FS

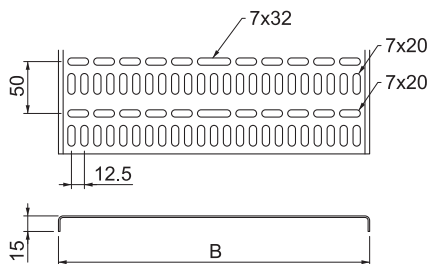
Cable tray, marine standard MKR 15



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

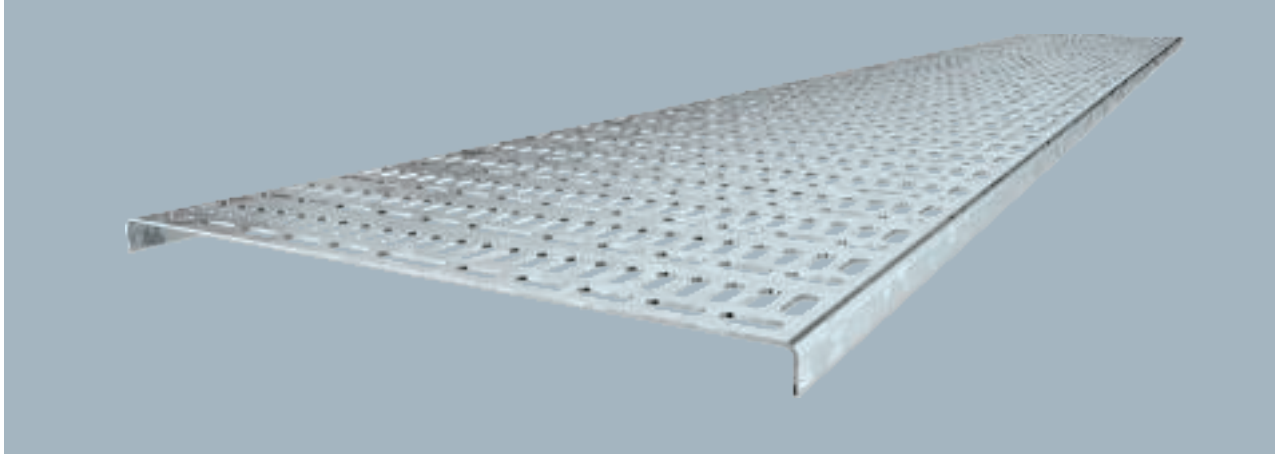
| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|---------------|-------------|-------------------------------|-----------|--------------------|----------|
| MKR 15 050 FS | 50 | 1.25 | 2 | 61.500 | 6046370 |
| MKR 15 075 FS | 75 | 1.25 | 2 | 78.500 | 6046372 |
| MKR 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 |

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

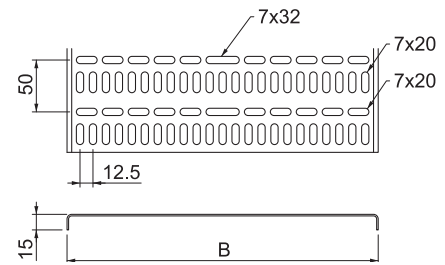


| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|---------------|-------------|----------------------------|-----------|--------------------|----------|
| MKR 15 050 FT | 50 | 1.25 | 2 | 66.750 | 6045057 |
| MKR 15 075 FT | 75 | 1.25 | 2 | 85.950 | 6045073 |
| MKR 15 100 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 |

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

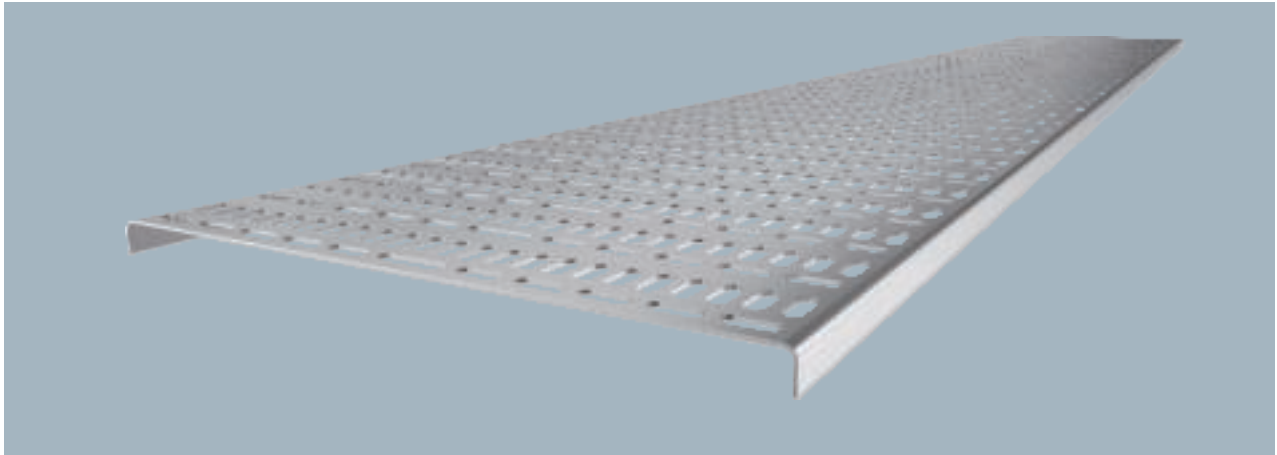
| Type | Length mm | Dim. B mm | Side height mm |
|---------------|--------------|--------------|----------------------|
| MKR 15 050 FT | 2000 | 50 | 15 |
| MKR 15 075 FT | 2000 | 75 | 15 |
| MKR 15 100 FT | 2000 | 100 | 15 |
| MKR 15 125 FT | 2000 | 125 | 15 |
| MKR 15 150 FT | 2000 | 150 | 15 |
|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

Dimensions



Alu

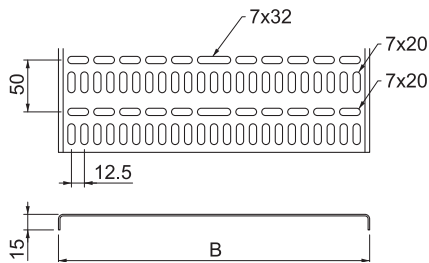
Cable tray, marine standard MKR 15



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



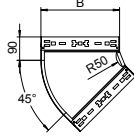
| Type | Length mm | Dim. B mm | Side height mm |
|----------------|--------------|--------------|----------------------|
| MKR 15 050 ALU | 2000 | 50 | 15 |
| MKR 15 075 ALU | 2000 | 75 | 15 |
| MKR 15 100 ALU | 2000 | 100 | 15 |
| MKR 15 125 ALU | 2000 | 125 | 15 |
| MKR 15 150 ALU | 2000 | 150 | 15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



Horizontal bends, plug connection

45° Magic bend 35

St FS

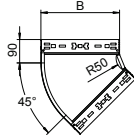


| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|----------------|-----------|------------|-------------------|----------|
| RBM 45 310 FS | 35 | 100 | 1 | 40.800 | 6041000 |
| RBM 45 320 FS | 35 | 200 | 1 | 74.500 | 6041002 |
| RBM 45 330 FS | 35 | 300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

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

45° Magic bend 60

St FS FT

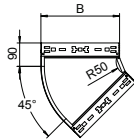


| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|----------------|-----------|------------|-------------------|----------|
| RBM 45 610 FS | 60 | 100 | 1 | 50.400 | 6041040 |
| RBM 45 615 FS | 60 | 150 | 1 | 67.300 | 6041042 |
| RBM 45 620 FS | 60 | 200 | 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.

45° Magic bend 60

VA 2B

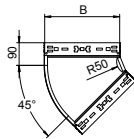


| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|----------------|-----------|------------|-------------------|----------|
| RBM 45 610 A2 | 60 | 100 | 1 | 50.400 | 6041080 |
| RBM 45 620 A2 | 60 | 200 | 1 | 85.500 | 6041084 |
| RBM 45 630 A2 | 60 | 300 | 1 | 127.700 | 6041086 |
| RBM 45 640 A2 | 60 | 400 | 1 | 174.000 | 6041088 |

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

45° Magic bend 110

St FS FT



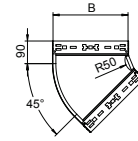
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|----------------|-----------|------------|-------------------|----------|
| RBM 45 110 FS | 110 | 100 | 1 | 70.500 | 6041750 |
| RBM 45 115 FS | 110 | 150 | 1 | 89.300 | 6041751 |
| RBM 45 120 FS | 110 | 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.

VA

45° Magic bend 110

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------------|-------------------|--------------|------------|----------------------|----------------|
| RBM 45 110 A2 | 110 | 100 | 1 | 70.500 | 6041800 |
| RBM 45 120 A2 | 110 | 200 | 1 | 109.900 | 6041802 |
| RBM 45 130 A2 | 110 | 300 | 1 | 156.100 | 6041804 |
| RBM 45 140 A2 | 110 | 400 | 1 | 206.500 | 6041806 |

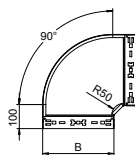
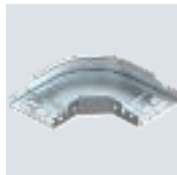


45° bend with quick connector system. For all cable tray types of 110 mm side height.

Horizontal bends, plug connection

90° Magic bend 35

St FS

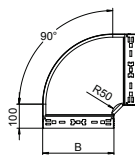


| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|----------------|-----------|------------|-------------------|----------|
| RBM 90 310 FS | 35 | 100 | 1 | 53.700 | 6041010 |
| RBM 90 320 FS | 35 | 200 | 1 | 106.200 | 6041012 |
| RBM 90 330 FS | 35 |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

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

90° Magic bend 60

St FS FT

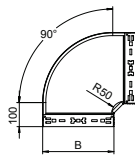


| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|----------------|-----------|------------|-------------------|----------|
| RBM 90 610 FS | 60 | 100 | 1 | 65.700 | 6041130 |
| RBM 90 615 FS | 60 | 150 | 1 | 91.900 | 6041132 |
| RBM 90 620 FS | 60 | 200 | 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.

90° Magic bend 60

VA VA 2B



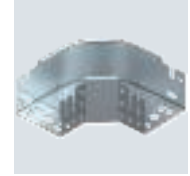
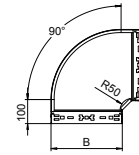
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|----------------|-----------|------------|-------------------|----------|
| RBM 90 610 A2 | 60 | 100 | 1 | 65.700 | 6041180 |
| RBM 90 615 A2 | 60 | 150 | 1 | 91.900 | 6041182 |
| RBM 90 620 A2 | 60 | 200 | 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 FS FT

90° Magic bend 85

| 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 |

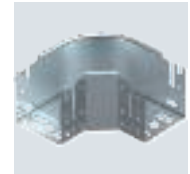
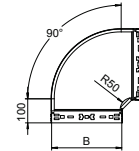


90° bend with quick connector system. For all cable tray types of 85 mm side height.

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 |

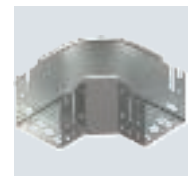
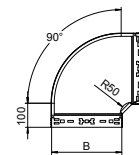


90° bend with quick connector system. For all cable tray types of 110 mm side height.

VA 2B

90° Magic bend 110

| Type | Side height mm | Dim. B 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 |

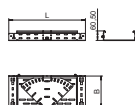


90° bend with quick connector system. For all cable tray types of 110 mm side height.

Horizontal bends, plug connection

St FS FT

Magic 60 bend, variable

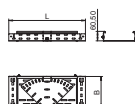


| Type | Side height mm | Dim. B mm | Dim. L mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|-------------------|-----------------|-----------------|---------------|----------------------|----------|
| RBMV 610 FS | 60 | 100 | 340 | 1 | 76.400 | 6040480 |
| RBMV 615 FS | 60 | 150 | 420 | 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

VA VA 2B

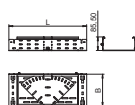


| Type | Side height mm | Dim. B mm | Dim. L mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|-------------------|-----------------|-----------------|---------------|----------------------|----------|
| RBMV 610 A2 | 60 | 100 | 340 | 1 | 76.400 | 6040520 |
| RBMV 620 A2 | 60 | 200 | 490 | 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 615 A4 | 60 | 150 | 420 | 1 | 117.100 | 6040542 |
| RBMV 620 A4 | 60 | 200 | 490 | 1 | 163.200 | 6040544 |
| RBMV 630 A4 | 60 | 300 | 640 | 1 | 360.200 | 6040546 |
| RBMV 640 A4 | 60 | 400 | 820 | 1 | 577.600 | 6040548 |
| RBMV 650 A4 | 60 | 500 | 960 | 1 | 986.500 | 6040550 |
| RBMV 660 A4 | 60 | 600 | 1120 | 1 | 1,346.800 | 6040552 |

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

Magic 85 bend, variable

St FS FT



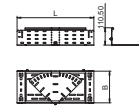
| Type | Side height mm | Dim. B mm | Dim. L mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|-------------------|-----------------|-----------------|---------------|----------------------|----------|
| RBMV 810 FS | 85 | 100 | 340 | 1 | 88.500 | 6040580 |
| RBMV 820 FS | 85 | 200 | 490 | 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

Magic 110 bend, variable

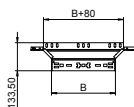
| Type | Side height mm | Dim. B mm | Dim. L mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|----------------|-----------|-----------|------------|-------------------|----------|
| RBMV 110 FS | 110 | 100 | 340 | 1 | 103.900 | 6040680 |
| RBMV 115 FS | 110 | 150 | 420 | 1 | 152.200 | 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 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 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 35 add-on tee

St FS

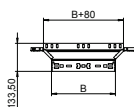
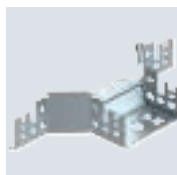


| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|----------------|-----------|------------|-------------------|----------|
| RAAM 310 FS | 35 | 100 | 1 | 30.700 | 6041020 |
| RAAM 320 FS | 35 | 200 | 1 | 43.400 | 6041022 |
| RAAM 330 FS | 35 | 300 | 1 |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

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

Add-on tee 60

St FS FT

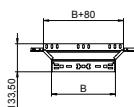
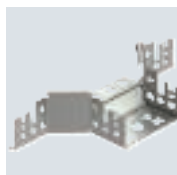


| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|----------------|-----------|------------|-------------------|----------|
| RAAM 610 FS | 60 | 100 | 1 | 37.700 | 6041230 |
| RAAM 615 FS | 60 | 150 | 1 | 42.046 | 6041232 |
| RAAM 620 FS | 60 | 200 | 1 | 50.100 | 6041234 |
| RAAM 630 FS | 60 | 300 | 1 | 62.900 | 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

VA VA 2B



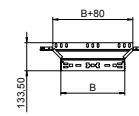
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|----------------|-----------|------------|-------------------|----------|
| RAAM 610 A2 | 60 | 100 | 1 | 37.700 | 6041270 |
| RAAM 615 A2 | 60 | 150 | 1 | 44.300 | 6041271 |
| RAAM 620 A2 | 60 | 200 | 1 | 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.

St FS FT

Magic 85 add-on tee

| 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 |

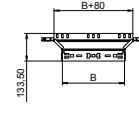


Add-on tee with quick connector system. For all cable tray types of 85 mm side height.

St FS FT

Magic 110 add-on tee

| Type | Side height mm | Dim. B 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 |

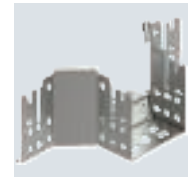
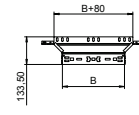


Add-on tee with quick connector system. For all cable tray types of 110 mm side height.

VA 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 |

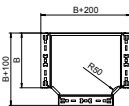
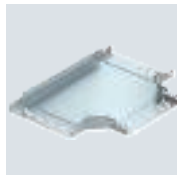


Add-on tee with quick connector system. For all cable tray types of 110 mm side height.

T pieces, plug connection

Magic 35 tee

St FS

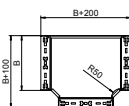


| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|----------------|-----------|------------|-------------------|----------|
| RTM 310 FS | 35 | 100 | 1 | 69.400 | 6041030 |
| RTM 320 FS | 35 | 200 | 1 | 134.000 | 6041032 |
| RTM 330 FS | 35 | 300 | 1 | 216.600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

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

Magic 60 T branch piece

St FS FT

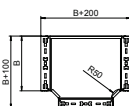


| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|----------------|-----------|------------|-------------------|----------|
| RTM 610 FS | 60 | 100 | 1 | 83.600 | 6041320 |
| RTM 615 FS | 60 | 150 | 1 | 114.700 | 6041322 |
| RTM 620 FS | 60 | 200 | 1 | 150.600 | 6041324 |
| RTM 630 FS | 60 | 300 | 1 | 234.500 | 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 T branch piece

VA VA 2B



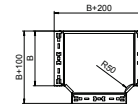
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|----------------|-----------|------------|-------------------|----------|
| RTM 610 A2 | 60 | 100 | 1 | 83.600 | 6041360 |
| RTM 620 A2 | 60 | 200 | 1 | 150.600 | 6041365 |
| RTM 630 A2 | 60 | 300 | 1 | 234.500 | 6041367 |
| RTM 640 A2 | 60 | 400 | 1 | 335.600 | 6041369 |
| RTM 650 A2 | 60 | 500 | 1 | 458.500 | 6041371 |
| RTM 660 A2 | 60 | 600 | 1 | 605.000 | 6041373 |
| RTM 610 A4 | 60 | 100 | 1 | 83.600 | 6041380 |
| RTM 620 A4 | 60 | 200 | 1 | 150.600 | 6041384 |
| RTM 630 A4 | 60 | 300 | 1 | 234.500 | 6041386 |
| RTM 640 A4 | 60 | 400 | 1 | 335.600 | 6041388 |
| RTM 650 A4 | 60 | 500 | 1 | 458.500 | 6041390 |
| RTM 660 A4 | 60 | 600 | 1 | 605.000 | 6041392 |

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

St FS FT

Magic 85 T branch piece

| 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 |

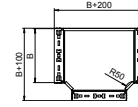


Tee with quick connector system. For all cable tray types of 85 mm side height.

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 |

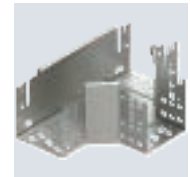
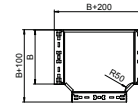


Tee with quick connector system. For all cable tray types of 110 mm side height.

VA 2B

Magic 110 tee

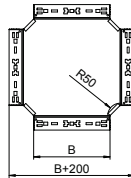
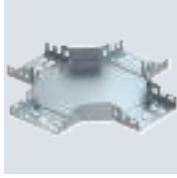
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|----------------|-----------|------------|-------------------|----------|
| RTM 110 A2 | 110 | 100 | 1 | 113.600 | 6042050 |
| RTM 120 A2 | 110 | 200 | 1 | 185.500 | 6042052 |
| RTM 130 A2 | 110 | 300 | 1 | 275.600 | 6042054 |
| RTM 140 A2 | 110 | 400 | 1 | 380.300 | 6042056 |
| RTM 150 A2 | 110 | 500 | 1 | 510.100 | 6042060 |
| RTM 160 A2 | 110 | 600 | 1 | 659.500 | 6042062 |



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

St FS

Magic 35 cross-over

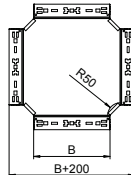
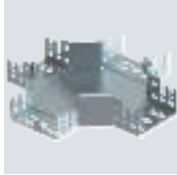


| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|----------------|-----------|------------|-------------------|----------|
| RKM 310 FS | 35 | 100 | 1 | 78.500 | 7027241 |
| RKM 320 FS | 35 | 200 | 1 | 146.300 | 7027243 |
| RKM 330 FS | 35 | 300 | 1 | 231.200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

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

St FS FT

Magic 60 cross-over

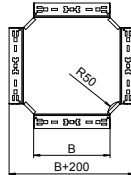


| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|----------------|-----------|------------|-------------------|----------|
| RKM 610 FS | 60 | 100 | 1 | 92.500 | 7027001 |
| RKM 615 FS | 60 | 150 | 1 | 123.800 | 7027003 |
| RKM 620 FS | 60 | 200 | 1 | 159.800 | 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.

VA VA 2B

Magic 60 cross-over



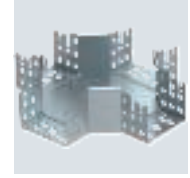
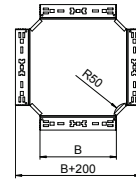
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|----------------|-----------|------------|-------------------|----------|
| RKM 610 A2 | 60 | 100 | 1 | 92.500 | 7027041 |
| RKM 620 A2 | 60 | 200 | 1 | 159.800 | 7027045 |
| RKM 630 A2 | 60 | 300 | 1 | 244.600 | 7027047 |
| RKM 640 A2 | 60 | 400 | 1 | 343.400 | 7027049 |
| RKM 650 A2 | 60 | 500 | 1 | 466.000 | 7027051 |
| RKM 660 A2 | 60 | 600 | 1 | 610.100 | 7027053 |
| RKM 610 A4 | 60 | 100 | 1 | 92.500 | 7027061 |
| RKM 620 A4 | 60 | 200 | 1 | 159.800 | 7027065 |
| RKM 630 A4 | 60 | 300 | 1 | 244.600 | 7027067 |
| RKM 640 A4 | 60 | 400 | 1 | 343.400 | 7027069 |
| RKM 650 A4 | 60 | 500 | 1 | 466.000 | 7027071 |
| RKM 660 A4 | 60 | 600 | 1 | 610.100 | 7027073 |

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

St FS FT

Magic 85 cross-over

| 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 |

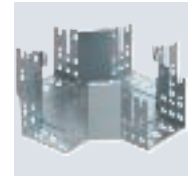
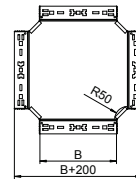


Cross-over with quick connector system. For all cable tray types of 85 mm side height.

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 |

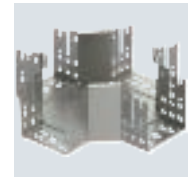
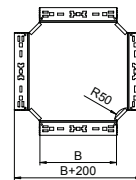


Cross-over with quick connector system. For all cable tray types of 110 mm side height.

VA 2B

Magic 110 cross-over

| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|----------------|-----------|------------|-------------------|----------|
| RKM 110 A2 | 110 | 100 | 1 | 124.700 | 7027201 |
| RKM 120 A2 | 110 | 200 | 1 | 192.300 | 7027205 |
| RKM 130 A2 | 110 | 300 | 1 | 277.600 | 7027207 |
| RKM 140 A2 | 110 | 400 | 1 | 374.800 | 7027209 |
| RKM 150 A2 | 110 | 500 | 1 | 499.800 | 7027211 |
| RKM 160 A2 | 110 | 600 | 1 | 644.300 | 7027213 |

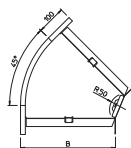


Cross-over with quick connector system. For all cable tray types of 110 mm side height.

Horizontal bends, screw connection

St FS FT

45° bend 35



| 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 |

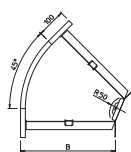
45° bend, horizontal, for all cable tray types of 35 mm side height.

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.

45° bend 60

St FS FT



| 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 |

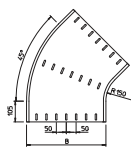
45° bend, horizontal, for all cable tray types of 60 mm side height.

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

St FS FT



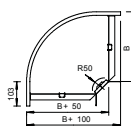
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|----------------|-----------|------------|-------------------|----------|
| RB 45 640 FS | 60 | 400 | 1 | 301.000 | 7000383 |
| RB 45 650 FS | 60 | 500 | 1 | 385.900 | 7000405 |
| RB 45 660 FS | 60 | 600 | 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.

90° bend 35

St FS FT



| 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.

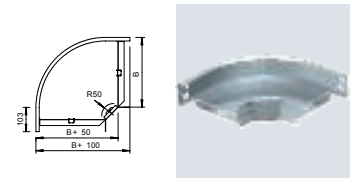
The fitting is shipped in an unmounted state.

Including appropriate fastening material.

St FS FT

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 |

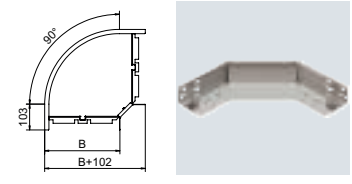


90° bend, horizontal, for all cable tray types of 60 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

VA 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 |

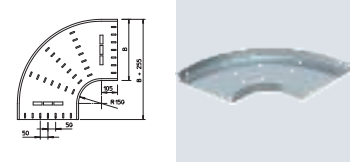


90° bend, horizontal, for all cable tray types of 60 mm side height.
The 100 mm width has a rectangle shape and does not correspond to the image.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

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 |

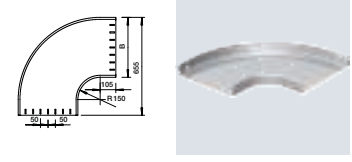


90° bend, horizontal, for all cable tray types of 60 mm side height.
Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

VA 2B

90° bend 60

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



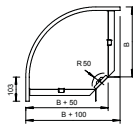
90° bend, horizontal and unperforated, for all cable tray types of 60 mm side height.
Fitting, unperforated, in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

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Horizontal bends, screw connection

90° bend 85

St FS FT



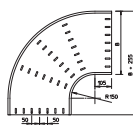
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|----------------|-----------|------------|-------------------|----------|
| RB 90 810 FS | 85 | 100 | 1 | 65.000 | 7001762 |
| RB 90 820 FS | 85 | 200 | 1 | 150.000 | 7001789 |
| RB 90 830 FS | 85 | 300 | 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.

90° bend 85

St FS FT



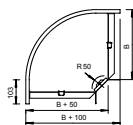
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|----------------|-----------|------------|-------------------|----------|
| RB 90 840 FS | 85 | 400 | 1 | 500.000 | 7001819 |
| RB 90 850 FS | 85 | 500 | 1 | 650.000 | 7001835 |
| RB 90 860 FS | 85 | 600 | 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° bend 110

St FS FT



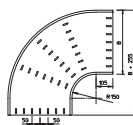
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|----------------|-----------|------------|-------------------|----------|
| RB 90 110 FS | 110 | 100 | 1 | 80.000 | 7001894 |
| RB 90 120 FS | 110 | 200 | 1 | 140.000 | 7001916 |
| RB 90 130 FS | 110 | 300 | 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 90 155 FT | 110 | 550 | 1 | 840.000 | 7127545 |
| RB 90 160 FT | 110 | 600 | 1 | 855.000 | 7127627 |

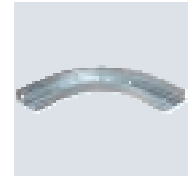
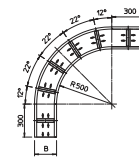
90° bend, horizontal, for all cable tray types of 110 mm side height.

Fastening materials should be ordered separately.

St FS FT

90° bend 110

| 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 |

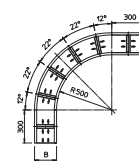


90° bend, horizontal, for all wide span cable trays of 110 mm side height.
For further stabilisation, additional supports should be planned for the area of the fittings.

St FS FT

90° bend 160

| 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 |

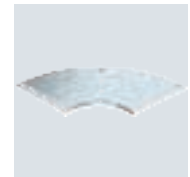
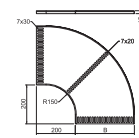


90° bend, horizontal, for all wide span cable trays of 160 mm side height.
For further stabilisation, additional supports should be planned for the area of the fittings.

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 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 |

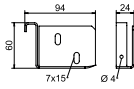


90° horizontal bend, for all ship construction cable tray types, produced according to the marine standard VG 88900-2.

Mounting/branch pieces, screw connection

St FS

Mounting/branch piece



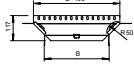
| Type | Dimension mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|--------------|------------|-------------------|----------|
| RAA 607.5 FS | 60x75 | 10 | 18.100 | 6050353 |

Two-part version.

Add-on tee for horizontal use on luminaire trays of 60 mm side height.

Add-on tee 35

St FS FT



| 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 |

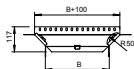
Add-on tee for horizontal and vertical use. For all cable tray types of 35 mm side height.

The fitting is shipped in an unmounted state.

Including appropriate fastening material.

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 |

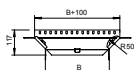
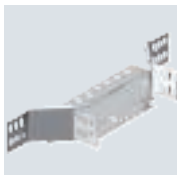
Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height.

The fitting is shipped in an unmounted state.

Including appropriate fastening material.

Add-on tee 60

VA VA 2B



| 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.

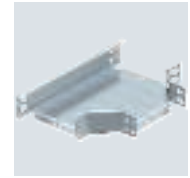
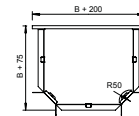
The fitting is shipped in an unmounted state.

Including appropriate fastening material.

St FS FT

T branch piece 60

| 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 |
| 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 |

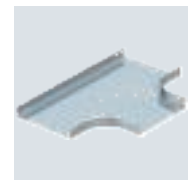
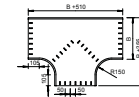


Horizontal T branch piece, for all cable tray types of 60 mm side height.
The fitting is shipped in an unmounted state. All the sides are designed for the same cable tray width. Including appropriate fastening material.

St FS FT

T branch piece 60

| 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 |
| 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 |

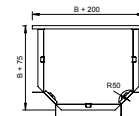


Horizontal T branch piece, for all cable tray types of 60 mm side height.
Fitting in round design. The interior radius of the fitting is 150 mm. All the sides are designed for the same cable tray width. Fastening materials should be ordered separately.

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 |

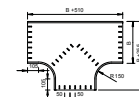


Horizontal T branch piece, for all cable tray types of 110 mm side height.
The fitting is shipped in an unmounted state. Including appropriate fastening material.

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 |

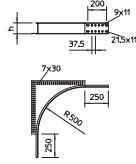


Horizontal T branch piece, for all cable tray types of 110 mm side height.
Fastening materials should be ordered separately.

Corner extension pieces, screw connection

Corner extension piece 110

St FS FT

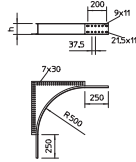


| Type | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|------------|---------------|----------------------|----------|
| WEAS 110 FS | 110 | 1 | 485.500 | 6098475 |
| WEAS 110 FT | 110 | 1 | 586.200 | 6098479 |

Corner extension piece for wide span cable trays and ladders with a side height of 110 mm.

Corner extension piece 160

St FS FT



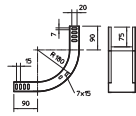
| Type | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|------------|---------------|----------------------|----------|
| WEAS 160 FS | 160 | 1 | 632.000 | 6098860 |
| WEAS 160 FT | 160 | 1 | 669.000 | 6098864 |

Corner extension piece for wide span cable trays and ladders with a side height of 160 mm.

Vertical bends, screw connection

90° vertical bend, rising, 35

St FS FT



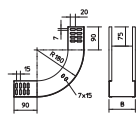
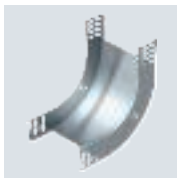
| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|----------------------|-------------|---------------|----------------------|----------|
| RBV 310 S FS | 35 | 100 | 1 | 55.600 | 7007174 |
| RBV 315 S FS | 35 | 150 | 1 | 66.400 | 7007178 |
| RBV 320 S FS | 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, rising 60

St FS FT



| 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 |

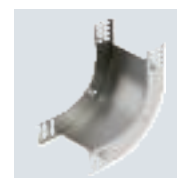
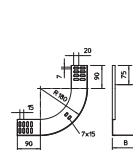
90° rising vertical bend, for all cable tray types of 60 mm side height.

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

VA VA 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 615 S A2 | 60 | 150 | 1 | 84.000 | 7007107 |
| RBV 620 S A2 | 60 | 200 | 1 | 109.000 | 7007109 |
| RBV 630 S A2 | 60 | 300 | 1 | 145.000 | 7007113 |
| RBV 640 S A2 | 60 | 400 | 1 | 181.000 | 7007117 |
| RBV 650 S A2 | 60 | 500 | 1 | 216.000 | 7007119 |
| RBV 660 S A2 | 60 | 600 | 1 | 252.000 | 7007121 |
| RBV 610 S A4 | 60 | 100 | 1 | 73.000 | 7006720 |
| RBV 620 S A4 | 60 | 200 | 1 | 105.000 | 7006724 |
| RBV 630 S A4 | 60 | 300 | 1 | 145.000 | 7006728 |
| RBV 640 S A4 | 60 | 400 | 1 | 181.000 | 7006732 |
| RBV 650 S A4 | 60 | 500 | 1 | 216.000 | 7006736 |
| RBV 660 S A4 | 60 | 600 | 1 | 252.000 | 7006740 |

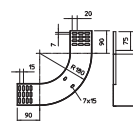


90° rising vertical bend, for all cable tray types of 60 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

St FS FT

90° vertical bend, rising 85

| 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 |

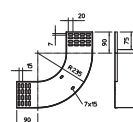


90° rising vertical bend, for all cable tray types of 85 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

St FS FT

90° vertical bend, rising, 110

| 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 115 S FS | 110 | 150 | 1 | 135.000 | 7007312 |
| RBV 120 S FS | 110 | 200 | 1 | 151.300 | 7007314 |
| RBV 130 S FS | 110 | 300 | 1 | 182.400 | 7007318 |
| RBV 140 S FS | 110 | 400 | 1 | 213.600 | 7007322 |
| RBV 150 S FS | 110 | 500 | 1 | 244.800 | 7007326 |
| RBV 160 S FS | 110 | 600 | 1 | 274.000 | 7007333 |
| RBV 110 S FT | 110 | 100 | 1 | 120.000 | 7007398 |
| RBV 115 S FT | 110 | 150 | 1 | 147.000 | 7007313 |
| RBV 120 S FT | 110 | 200 | 1 | 163.000 | 7007400 |
| RBV 130 S FT | 110 | 300 | 1 | 182.400 | 7007319 |
| RBV 140 S FT | 110 | 400 | 1 | 231.000 | 7007404 |
| RBV 150 S FT | 110 | 500 | 1 | 244.800 | 7007327 |
| RBV 155 S FT | 110 | 550 | 1 | 260.400 | 7007331 |
| RBV 160 S FT | 110 | 600 | 1 | 299.000 | 7007334 |

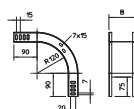


90° rising vertical bend, for all cable tray types of 110 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

Vertical bends, screw connection

90° vertical bend, falling 35

St FS FT



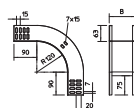
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|----------------|-----------|------------|-------------------|----------|
| RBV 310 F FS | 35 | 100 | 1 | 51.300 | 7007204 |
| RBV 315 F FS | 35 | 150 | 1 | 60.000 | 7007208 |
| RBV 320 F FS | 35 | 200 | 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.

90° vertical bend, falling 60

St FS FT



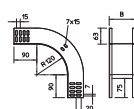
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|----------------|-----------|------------|-------------------|----------|
| RBV 610 F FS | 60 | 100 | 1 | 61.000 | 7007055 |
| RBV 615 F FS | 60 | 150 | 1 | 73.000 | 7007059 |
| RBV 620 F FS | 60 | 200 | 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

VA VA 2B



| 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 615 F A2 | 60 | 150 | 1 | 73.000 | 7007156 |
| RBV 620 F A2 | 60 | 200 | 1 | 84.000 | 7007157 |
| RBV 630 F A2 | 60 | 300 | 1 | 107.000 | 7007159 |
| RBV 640 F A2 | 60 | 400 | 1 | 130.000 | 7007161 |
| RBV 650 F A2 | 60 | 500 | 1 | 153.000 | 7007163 |
| RBV 660 F A2 | 60 | 600 | 1 | 176.000 | 7007165 |
| RBV 610 F A4 | 60 | 100 | 1 | 61.000 | 7006750 |
| RBV 620 F A4 | 60 | 200 | 1 | 84.000 | 7006754 |
| RBV 630 F A4 | 60 | 300 | 1 | 107.000 | 7006758 |
| RBV 640 F A4 | 60 | 400 | 1 | 130.000 | 7006762 |
| RBV 650 F A4 | 60 | 500 | 1 | 153.000 | 7006766 |
| RBV 660 F A4 | 60 | 600 | 1 | 176.000 | 7006770 |

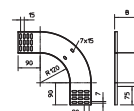
90° vertical bend, falling, for all cable tray types of 60 mm side height.

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

St FS FT

90° vertical bend, falling 85

| 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 |

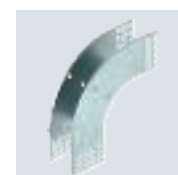
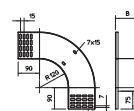


90° vertical bend, falling, for all cable tray types of 85 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

St FS FT

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 115 F FS | 110 | 150 | 1 | 114.000 | 7007352 |
| RBV 120 F FS | 110 | 200 | 1 | 124.000 | 7007354 |
| RBV 130 F FS | 110 | 300 | 1 | 141.600 | 7007358 |
| RBV 140 F FS | 110 | 400 | 1 | 159.200 | 7007362 |
| RBV 150 F FS | 110 | 500 | 1 | 176.900 | 7007366 |
| RBV 155 F FS | 110 | 550 | 1 | 185.700 | 7007370 |
| RBV 160 F FS | 110 | 600 | 1 | 193.000 | 7007373 |
| RBV 110 F FT | 110 | 100 | 1 | 120.000 | 7007468 |
| RBV 115 F FT | 110 | 150 | 1 | 124.000 | 7007353 |
| RBV 120 F FT | 110 | 200 | 1 | 134.000 | 7007470 |
| RBV 130 F FT | 110 | 300 | 1 | 141.600 | 7007359 |
| RBV 140 F FT | 110 | 400 | 1 | 172.000 | 7007474 |
| RBV 150 F FT | 110 | 500 | 1 | 176.900 | 7007367 |
| RBV 155 F FT | 110 | 550 | 1 | 185.700 | 7007371 |
| 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° adjustable bend, vertical 60

St FS FT

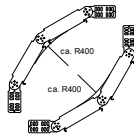


| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|----------------|----------|------------|-------------------|----------|
| RGBV 610 FS | 60 | 100 | 1 | 173.700 | 7006322 |
| RGBV 615 FS | 60 | 150 | 1 | 200.000 | 7006330 |
| RGBV 620 FS | 60 | 200 | 1 | 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 |
| 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 |

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.

90° adjustable bend, vertical 60

VA 2B



| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|----------------|----------|------------|-------------------|----------|
| RGBV 610 A2 | 60 | 100 | 1 | 182.000 | 7138113 |
| RGBV 620 A2 | 60 | 200 | 1 | 238.000 | 7138121 |
| RGBV 630 A2 | 60 | 300 | 1 | 265.000 | 7138148 |
| RGBV 640 A2 | 60 | 400 | 1 | 344.000 | 7138156 |
| RGBV 650 A2 | 60 | 500 | 1 | 437.000 | 7138164 |
| RGBV 660 A2 | 60 | 600 | 1 | 430.000 | 7138172 |

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.

90° adjustable bend, vertical 85

St FS FT



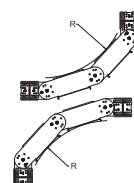
| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|----------------|----------|------------|-------------------|----------|
| RGBV 810 FS | 85 | 100 | 1 | 244.000 | 7006462 |
| RGBV 820 FS | 85 | 200 | 1 | 305.000 | 7006489 |
| RGBV 830 FS | 85 | 300 | 1 | 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 |



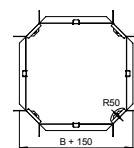
90° adjustable vertical bend, for all cable tray types with a side height of 110 mm.
The bend is shipped in an unmounted state. No additional fastening materials are required.

Intersections, screw connection

St FS FT

Cross-over 60

| Type | Side height mm | Width 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 |
| 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 |

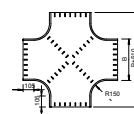


Horizontal cross-over for all cable tray types of 60 mm side height.
The fitting is shipped in an unmounted state. All the sides are designed for the same cable tray width.
Including appropriate fastening material.

St FS FT

Cross-over 60

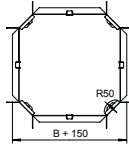
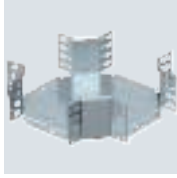
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|----------------|-----------|------------|-------------------|----------|
| RK 640 FS | 60 | 400 | 1 | 800.000 | 7004397 |
| RK 650 FS | 60 | 500 | 1 | 1,120.000 | 7004419 |
| RK 660 FS | 60 | 600 | 1 | 1,291.000 | 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.

Cross-over 110

St FS FT

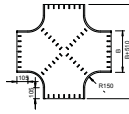


| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|----------------|----------|------------|-------------------|----------|
| RK 110 FS | 110 | 100 | 1 | 110.000 | 7004648 |
| RK 120 FS | 110 | 200 | 1 | 160.000 | 7004664 |
| RK 130 FS | 110 | 300 | 1 | 220.000 | 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



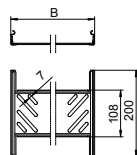
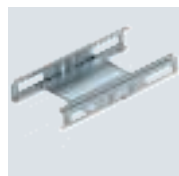
| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|----------------|----------|------------|-------------------|----------|
| RK 140 FS | 110 | 400 | 1 | 906.000 | 7004699 |
| RK 150 FS | 110 | 500 | 1 | 1,100.000 | 7004710 |
| RK 140 FT | 110 | 400 | 1 | 960.000 | 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.



Magic straight connector set 35

St FS



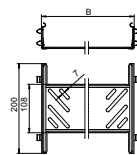
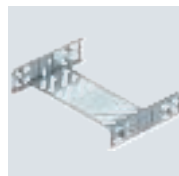
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|----------------|-----------|------------|-------------------|----------|
| KTSMV 310 FS | 35 | 100 | 1 | 22.700 | 6068900 |
| KTSMV 320 FS | 35 | 200 | 1 | 29.400 | 6068902 |
| KTSMV 330 FS | 35 | 300 |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

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.

Magic straight connector set 60

St FS DD



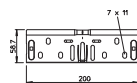
| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|----------------|----------|------------|-------------------|----------|
| KTSMV 610 FS | 60 | 100 | 1 | 30.500 | 6068914 |
| KTSMV 615 FS | 60 | 150 | 1 | 34.900 | 6068916 |
| KTSMV 620 FS | 60 | 200 | 1 | 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.

Straight connector set 60

St FS



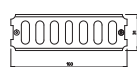
| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|----------------|----------|------------|-------------------|----------|
| RV 605 FS | 60 | 50 | 10 | 18.100 | 6068146 |
| RV 607 FS | 60 | 75 | 10 | 18.800 | 6068150 |
| RV 610 FS | 60 | 100 | 10 | 19.400 | 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.

Straight connector 35

St FS FT



| 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 |

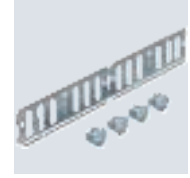
Straight connector for connections of cable trays and fittings with a side height of 35 mm.

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 |

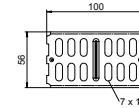


Straight and angle connector for cable trays and fittings with a side height of 35 mm. Including appropriate fastening material.

St FS FT

Straight connector 60

| 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 |

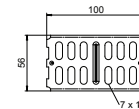


Straight connector for straight connection of cable trays and fittings with a side height of 60 mm. Including appropriate fastening material.

VA VA 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 |

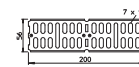


Straight connector for straight connection of cable trays and fittings with a side height of 60 mm. Including appropriate fastening material.

St 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 |

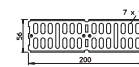


Straight and angle connector for cable trays and fittings with a side height of 60 mm. Including appropriate fastening material.

VA VA 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 |

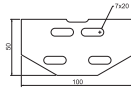


Straight and angle connector for cable trays and fittings with a side height of 60 mm. Including appropriate fastening material.

Straight connector

Straight connector 60, vertical

St FS



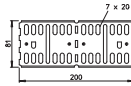
| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|----------------|------------|-------------------|----------|
| RLVKV 60 FS | 60 | 10 | 4.550 | 6067101 |

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 and angle connector 85

St FS FT

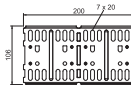


| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|----------------|------------|-------------------|----------|
| RLVL 85 FS | 85 | 10 | 27.300 | 6067123 |
| RLVL 85 FT | 85 | 10 | 28.300 | 6067816 |

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

Straight and angle connector 110

St FS FT

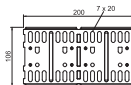


| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|----------------|------------|-------------------|----------|
| RLVL 110 FS | 110 | 10 | 33.800 | 6067131 |
| RLVL 110 FT | 110 | 10 | 35.100 | 6067913 |

Straight and angle connector for cable trays and fittings with a side height of 110 mm. Including appropriate fastening material.

Straight and angle connector 110

VA 2B

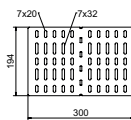
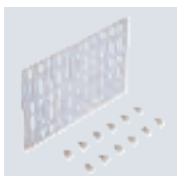


| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|----------------|------------|-------------------|----------|
| RLVL 110 A2 | 110 | 10 | 33.400 | 6067948 |

Straight and angle connector for cable trays and fittings with a side height of 110 mm.

Straight and angle connector 200

St FT



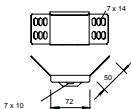
| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|----------------|------------|-------------------|----------|
| LWVM 200 FT | 200 | 2 | 113.200 | 6083200 |

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.

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 |

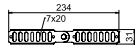


Angle connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.



Adjustable connector 35

St FS FT

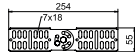


| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|----------------|------------|-------------------|----------|
| RGV 35 FS | 35 | 10 | 11.000 | 7082002 |
| RGV 35 FT | 35 | 10 | 11.000 | 7082126 |

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

Adjustable connector 60

St FS FT

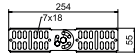


| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|----------------|------------|-------------------|----------|
| RGV 60 FS | 60 | 10 | 25.100 | 7082010 |
| RGV 60 FT | 60 | 10 | 26.100 | 7082223 |

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

Adjustable connector 60

VA VA 2B

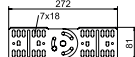
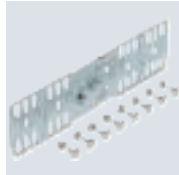


| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|----------------|------------|-------------------|----------|
| RGV 60 A2 | 60 | 10 | 25.100 | 7082258 |
| RGV 60 A4 | 60 | 10 | 25.100 | 7082265 |

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

Adjustable connector 85

St FS FT

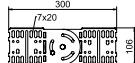
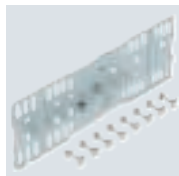


| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|----------------|------------|-------------------|----------|
| RGV 85 FS | 85 | 10 | 44.100 | 7082029 |
| RGV 85 FT | 85 | 10 | 45.900 | 7082320 |

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

Adjustable connector 110

St FS FT



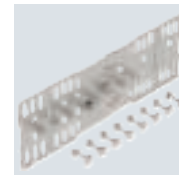
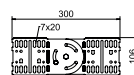
| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|----------------|------------|-------------------|----------|
| RGV 110 FS | 110 | 10 | 61.700 | 7082037 |
| RGV 110 FT | 110 | 10 | 64.300 | 7082436 |

Adjustable connector for cable trays with a side height of 110 mm.
Including appropriate fastening material.

VA 2B

Adjustable connector 110

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|----------------|------------|-------------------|----------|
| RGV 110 A2 | 110 | 4 | 61.700 | 7082479 |



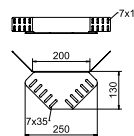
Adjustable connector for cable trays with a side height of 110 mm.

Corner connector

St FS DD

Corner connector 60

| 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 |

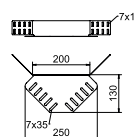


Corner connector for cable trays with side height 60 mm.
Fastening materials should be ordered separately.

VA VA 2B

Corner connector 60

| 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 |

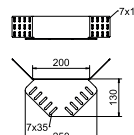


Corner connector for cable trays with side height 60 mm.
Fastening materials should be ordered separately.

St FS DD

Corner connector 85

| 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 |

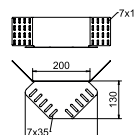


Corner connector for cable trays with side height 85 mm.
Fastening materials should be ordered separately.

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 |

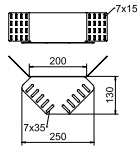


Corner connector for cable trays with side height 110 mm.
Fastening materials should be ordered separately.

Corner connector

VA 2B

Corner connector 110



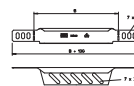
| Type | Side height mm | Pack | Weight | Item no. |
|------------|-------------------|-------|------------|----------|
| | | Piece | kg/100 pc. | |
| REV 110 A2 | 110 | 5 | 75.000 | 6068049 |

Corner connector for cable trays with side height 110 mm.

St FS

Reducer/stop-end 35

| 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 |

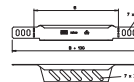


Reducer/stop-end for cable trays with side height 35 mm.
From a width of 150 mm, a perforated bottom flange is available.
Including appropriate fastening material.

St DD

Reducer / stop-end 35

| 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 |

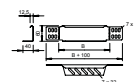


Reducer/stop-end for cable trays with side height 35 mm.
From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

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 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 |
| RWEB 605 DD | 60 | 50 | 1 | 9.337 | 7107145 |
| RWEB 645 DD | 60 | 450 | 1 | 43.600 | 7106124 |

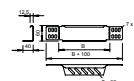


Reducer/stop-end plate for cable trays with side height 60 mm.
From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

VA 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 |

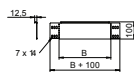


Reducer/stop-end plate for cable trays with side height 60 mm.
From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

Reducing bracket and end closure plate

Reducer/stop-end 100

St FS



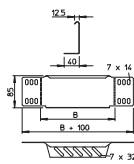
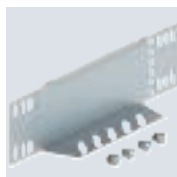
| Type | Side height mm | Dim. B mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|-------------------|-----------------|---------------|----------------------|----------|
| RWEB 1010 FS | 100 | 100 | 1 | 13.600 | 7111802 |
| RWEB 1020 FS | 100 | 200 | 1 | 22.100 | 7111804 |
| RWEB 1030 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.

Reducer/stop-end 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 |

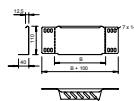
Reducer/stop-end for cable trays with side height 85 mm.

From a width of 150 mm, a perforated bottom flange is available.

Including appropriate fastening material.

Reducer/stop-end 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 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 155 FS | 110 | 550 | 1 | 70.700 | 7111541 |
| 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.

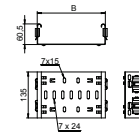
From a width of 150 mm, the perforated lower flange is provided.

Including appropriate fastening material.

St DD

Magic 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.

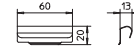
Separating retainer connector

VA 2B

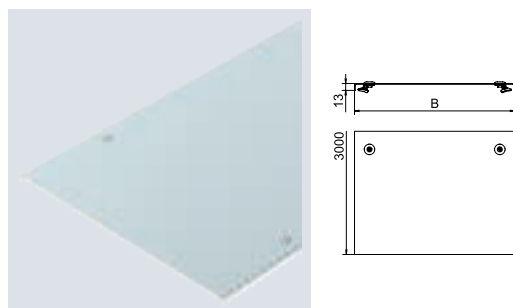
Barrier strip connector

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

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.



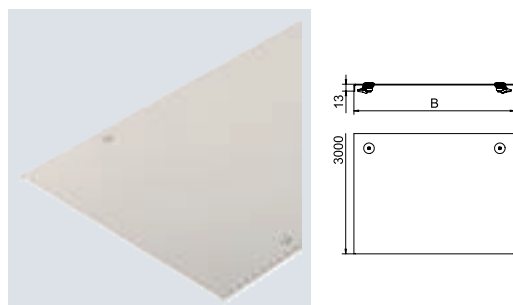
Cover with turn buckle



| 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.

Cover with turn buckle



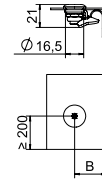
| Type | Dim. B mm | Metal thickness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|------------|-----------|--------------------|-----------|--------|-----------------|----------|
| DRL 100 A2 | 100 | 1.00 | 3000 | 3 | 105.070 | 6052878 |
| DRL 150 A2 | 150 | 1.00 | 3000 | 3 | 144.400 | 6052886 |
| DRL 200 A2 | 200 | 1.00 | 3000 | 3 | 183.500 | 6052894 |
| DRL 300 A2 | 300 | 1.00 | 3000 | 3 | 262.240 | 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 150 A4 | 150 | 1.00 | 3000 | 3 | 144.400 | 6052982 |
| DRL 200 A4 | 200 | 1.00 | 3000 | 3 | 183.570 | 6052981 |
| DRL 300 A4 | 300 | 1.00 | 3000 | 3 | 262.240 | 6052983 |
| DRL 400 A4 | 400 | 1.00 | 3000 | 3 | 341.240 | 6052984 |
| DRL 500 A4 | 500 | 1.25 | 3000 | 3 | 624.900 | 6052985 |
| DRL 600 A4 | 600 | 1.25 | 3000 | 3 | 743.240 | 6052986 |

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.

St FT

Turn buckle for screwing

| 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

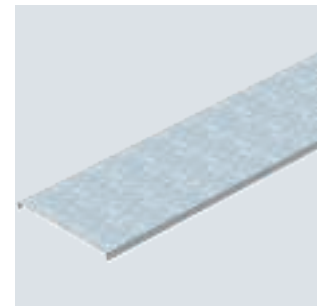
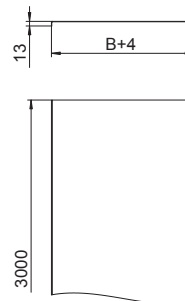
Single-sided turn buckle. Use for cover widths of 100–600 mm.

Lid, unperforated

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 | 0.75 | 3000 | 3 | 59.770 | 6052640 |
| DRLU 100 DD | 100 | 0.75 | 3000 | 3 | 99.000 | 6052643 |
| DRLU 150 DD | 150 | 0.75 | 3000 | 3 | 138.270 | 6052647 |
| DRLU 200 DD | 200 | 1.00 | 3000 | 3 | 177.500 | 6052650 |
| DRLU 300 DD | 300 | 1.00 | 3000 | 3 | 256.000 | 6052656 |
| DRLU 400 DD | 400 | 1.00 | 3000 | 3 | 334.500 | 6052662 |
| DRLU 500 DD | 500 | 1.25 | 3000 | 3 | 619.230 | 6052668 |
| DRLU 550 DD | 550 | 1.25 | 3000 | 3 | 678.100 | 6052671 |
| DRLU 600 DD | 600 | 1.25 | 3000 | 3 | 737.000 | 6052674 |



Cover for cable trays and mesh cable trays.

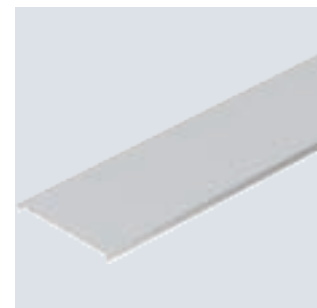
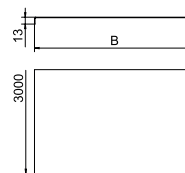
When using covers outdoors, additional measures against the influence of wind must be taken.

Transverse bead from 500 mm width.

VA VA 2B

Unperforated cover

| 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 | 59.770 | 6052821 |
| DRLU 100 A2 | 100 | 1.00 | 3000 | 3 | 99.000 | 6052824 |
| DRLU 150 A2 | 150 | 1.00 | 3000 | 3 | 138.240 | 6052828 |
| DRLU 200 A2 | 200 | 1.00 | 3000 | 3 | 177.500 | 6052831 |
| DRLU 300 A2 | 300 | 1.00 | 3000 | 3 | 256.000 | 6052834 |
| DRLU 400 A2 | 400 | 1.00 | 3000 | 3 | 334.500 | 6052837 |
| DRLU 500 A2 | 500 | 1.50 | 3000 | 3 | 619.167 | 6052841 |
| DRLU 600 A2 | 600 | 1.50 | 3000 | 3 | 736.900 | 6052844 |
| DRLU 050 A4 | 50 | 1.00 | 3000 | 3 | 59.767 | 6052978 |
| DRLU 100 A4 | 100 | 1.00 | 3000 | 3 | 99.000 | 6052991 |
| DRLU 150 A4 | 150 | 1.00 | 3000 | 3 | 138.240 | 6052992 |
| DRLU 200 A4 | 200 | 1.00 | 3000 | 3 | 177.500 | 6052993 |
| DRLU 300 A4 | 300 | 1.00 | 3000 | 3 | 256.000 | 6052994 |
| DRLU 400 A4 | 400 | 1.00 | 3000 | 3 | 334.500 | 6052995 |
| DRLU 500 A4 | 500 | 1.25 | 3000 | 3 | 619.170 | 6052996 |
| DRLU 600 A4 | 600 | 1.25 | 3000 | 3 | 736.900 | 6052998 |



Cover for cable trays and mesh cable trays.

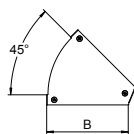
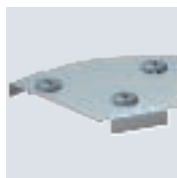
When using covers outdoors, additional measures against the influence of wind must be taken.

Transverse bead from 500 mm width.



Cover for 45° Magic bend

St FS DD

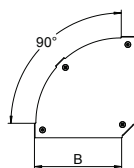
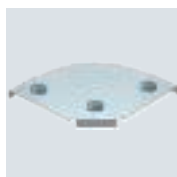


| Type | Dim. B mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|-----------|--------------------|------------|-------------------|----------|
| DFBM 45 100 FS | 100 | 1.25 | 1 | 16.400 | 7138360 |
| DFBM 45 150 FS | 150 | 1.25 | 1 | 23.100 | 7138362 |
| DFBM 45 200 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° Magic bend

St FS DD

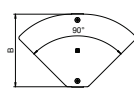


| Type | Dim. B mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|-----------|--------------------|------------|-------------------|----------|
| DFBM 90 100 FS | 100 | 1.25 | 1 | 17.100 | 7138500 |
| DFBM 90 150 FS | 150 | 1.25 | 1 | 28.500 | 7138502 |
| DFBM 90 200 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 variable Magic bend

St FS DD



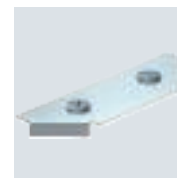
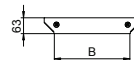
| Type | Dim. B mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|-----------|--------------------|------------|-------------------|----------|
| DFBMV 100 FS | 100 | 1.00 | 1 | 17.300 | 6040760 |
| DFBMV 150 FS | 150 | 1.00 | 1 | 28.500 | 6040762 |
| DFBMV 200 FS | 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.

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 |



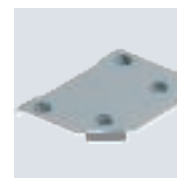
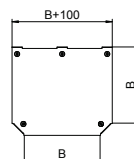
Cover for add-on tee with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

Lid, T piece

St FS DD

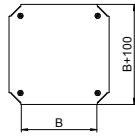
Cover for Magic tee

| 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 cross-over



| 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 300 FS | 300 | 1.25 | 1 | 129.300 | 7138936 |
| DFKM 400 FS | 400 | 1.25 | 1 | 246.900 | 7138938 |
| DFKM 500 FS | 500 | 1.25 | 1 | 353.700 | 7138940 |
| DFKM 600 FS | 600 | 1.25 | 1 | 480.100 | 7138942 |
| DFKM 100 DD | 100 | 1.25 | 1 | 36.300 | 7138970 |
| DFKM 200 DD | 200 | 1.25 | 1 | 75.000 | 7138974 |
| DFKM 300 DD | 300 | 1.25 | 1 | 123.100 | 7138976 |
| DFKM 400 DD | 400 | 1.25 | 1 | 246.900 | 7138978 |
| DFKM 500 DD | 500 | 1.25 | 1 | 353.700 | 7138980 |
| DFKM 600 DD | 600 | 1.25 | 1 | 480.100 | 7138982 |

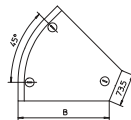
Cover for cross-over with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.



Lid, horizontal bend

Cover for 45° bend

St FS DD

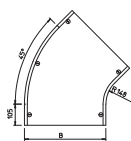


| Type | Dim. B mm | Metal thick- ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|-----------------|-------------------------------|---------------|----------------------|----------|
| DFB 45 100 FS | 100 | 1.00 | 1 | 19.400 | 7128819 |
| DFB 45 150 FS | 150 | 1.00 | 1 | 27.800 | 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.

Cover for 45° bend

St FS DD

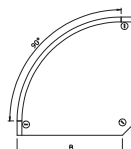


| Type | Dim. B mm | Metal thick- ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|-----------------|-------------------------------|---------------|----------------------|----------|
| DFB 45 400 FS | 400 | 1.25 | 1 | 218.600 | 7128886 |
| DFB 45 500 FS | 500 | 1.25 | 1 | 252.800 | 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.

Cover for 90° bend

St FS DD



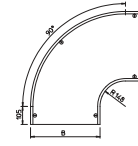
| Type | Dim. B mm | Metal thick- ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|-----------------|-------------------------------|---------------|----------------------|----------|
| DFB 90 100 FS | 100 | 1.00 | 1 | 27.000 | 7129610 |
| DFB 90 150 FS | 150 | 1.00 | 1 | 40.000 | 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.

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 90 550 DD | 550 | 1.25 | 1 | 607.000 | 7130619 |
| DFB 90 600 DD | 600 | 1.25 | 1 | 750.000 | 7130627 |

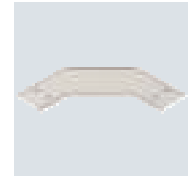
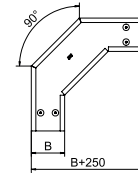


The cover can be used with fittings of all side heights.
Cover for 90° bend with pre-mounted turn buckles.

VA VA 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 |

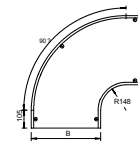


The cover can be used with fittings of all side heights.
The 100 mm width has a rectangular shape and does not correspond to the image.
Cover for 90° bend with pre-mounted turn buckles.

VA VA 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 |

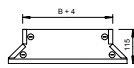


The cover can be used with fittings of all side heights.
Cover for 90° bend with pre-mounted turn buckles.



St FS DD

Cover for add-on tee

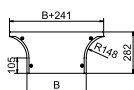


| Type | Dim. B mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|-----------|--------------------|------------|-------------------|----------|
| DFAA 100 FS | 100 | 1.00 | 1 | 25.000 | 7128428 |
| DFAA 150 FS | 150 | 1.00 | 1 | 30.000 | 7128436 |
| DFAA 200 FS | 200 | 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.

Cover for add-on tee

St FS DD

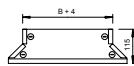


| Type | Dim. B mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|-----------|--------------------|------------|-------------------|----------|
| DFAA 400 FS | 400 | 1.25 | 1 | 145.000 | 7128487 |
| DFAA 500 FS | 500 | 1.25 | 1 | 174.000 | 7128509 |
| DFAA 550 FS | 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.

Cover for add-on tee

VA VA 2B

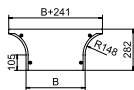


| Type | Dim. B mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|-----------|--------------------|------------|-------------------|----------|
| DFAA 100 A2 | 100 | 1.00 | 1 | 26.700 | 7136900 |
| DFAA 200 A2 | 200 | 1.00 | 1 | 35.800 | 7136919 |
| DFAA 300 A2 | 300 | 1.00 | 1 | 44.800 | 7136927 |
| DFAA 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.

Cover for add-on tee

VA VA 2B



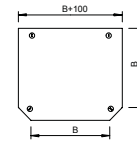
| Type | Dim. B mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|-----------|--------------------|------------|-------------------|----------|
| DFAA 400 A2 | 400 | 1.25 | 1 | 176.800 | 7136935 |
| DFAA 500 A2 | 500 | 1.25 | 1 | 208.000 | 7136943 |
| DFAA 600 A2 | 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 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 |

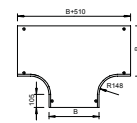


Cover for tee with pre-mounted turn buckle.
The cover can be used with fittings of all side heights.

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 |



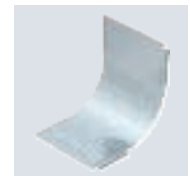
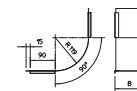
Cover for tee with pre-mounted turn buckle.
The cover can be used with fittings of all side heights.

Lid, vertical bend, rising

St FS DD

Cover for 90° vertical bend, rising

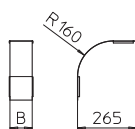
| Type | Side height mm | Dim. B mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|----------------|-----------|--------------------|------------|-------------------|----------|
| DBV 100 S FS | 60 | 100 | 0.75 | 1 | 21.000 | 7130805 |
| DBV 150 S FS | 60 | 150 | 0.75 | 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.

Cover for 90° vertical bend, falling

St FS DD



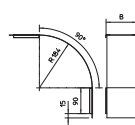
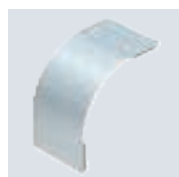
| Type | Side height mm | Dim. B mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------------|----------------|-----------|--------------------|------------|-------------------|----------|
| DBV 35 100 F FS | 35 | 100 | 0.75 | 1 | 23.000 | 7130764 |
| DBV 35 150 F FS | 35 | 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

St FS DD



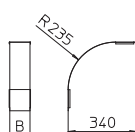
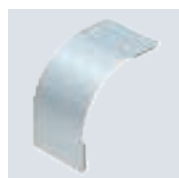
| Type | Side height mm | Dim. B mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------------|----------------|-----------|--------------------|------------|-------------------|----------|
| DBV 60 100 F FS | 60 | 100 | 0.75 | 1 | 25.200 | 7130852 |
| DBV 60 150 F FS | 60 | 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 85, falling

St FS DD



| 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 |

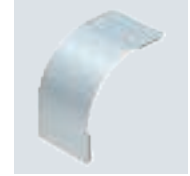
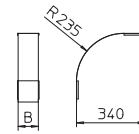
Cover for falling vertical bends of side height 85 mm.

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 110 200 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 |



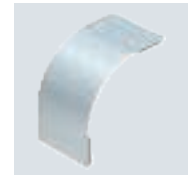
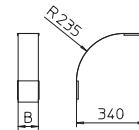
Cover for falling vertical bends of side height 110 mm.

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.

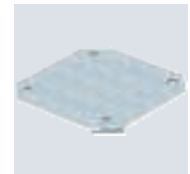
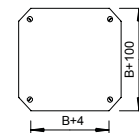
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Lid for intersection

St FS DD

Cover for cross-over

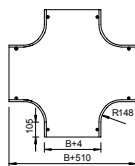
| Type | Dim. B mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|-----------|--------------------|------------|-------------------|----------|
| DFK 100 FS | 100 | 1.25 | 1 | 44.500 | 7128614 |
| DFK 150 FS | 150 | 1.25 | 1 | 62.500 | 7128622 |
| DFK 200 FS | 200 | 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



| 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.

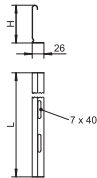
Cover for cross-over with pre-mounted turn buckles.



Separating retainers

Barrier strip 30

St FS DD

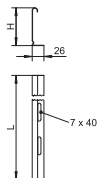


| Type | Metal | | | Pack m | Weight kg/100 m | Item no. |
|-----------|-----------------|----------------------|-----------------|-----------|--------------------|----------|
| | Dim. H mm | thick- ness mm | Dim. L mm | | | |
| TSG 30 FS | 30 | 0.75 | 3000 | 3 | 38.000 | 6062050 |
| TSG 30 DD | 30 | 0.75 | 3000 | 3 | 38.000 | 6062314 |

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

Barrier strip 30

VA VA 2B

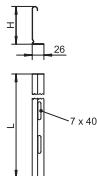


| Type | Metal | | | Pack m | Weight kg/100 m | Item no. |
|-----------|-----------------|----------------------|-----------------|-----------|--------------------|----------|
| | Dim. H mm | thick- ness mm | Dim. L mm | | | |
| TSG 30 A2 | 30 | 0.75 | 3000 | 3 | 37.997 | 6062052 |
| TSG 30 A4 | 30 | 0.75 | 3000 | 3 | 37.997 | 6062054 |

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

Separating retainer 45

St FS DD

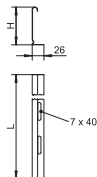


| Type | Metal | | | Pack m | Weight kg/100 m | Item no. |
|-----------|-----------------|----------------------|-----------------|-----------|--------------------|----------|
| | Dim. H mm | thick- ness mm | Dim. L mm | | | |
| TSG 45 FS | 45 | 0.75 | 3000 | 3 | 46.700 | 6062033 |
| TSG 45 DD | 45 |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

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

Separating retainer 45

VA VA 2B

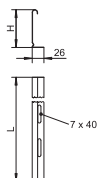


| Type | Metal | | | Pack m | Weight kg/100 m | Item no. |
|-----------|-----------------|----------------------|-----------------|-----------|--------------------|----------|
| | Dim. H mm | thick- ness mm | Dim. L mm | | | |
| TSG 45 A2 | 45 | 0.75 | 3000 | 3 | 46.812 | 6062025 |
| TSG 45 A4 | 45 | 0.75 | 3000 | 3 | 46.812 | 6062028 |

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

Separating retainer 60

St FS DD



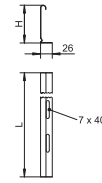
| Type | Metal | | | Pack m | Weight kg/100 m | Item no. |
|-----------|-----------------|----------------------|-----------------|-----------|--------------------|----------|
| | Dim. H mm | thick- ness mm | Dim. L mm | | | |
| TSG 60 FS | 60 | 0.75 | 3000 | 3 | 55.700 | 6062068 |
| TSG 60 DD | 60 |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

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

VA VA 2B

Separating retainer 60

| Type | Dim. H mm | Metal | | Dim. L mm | Pack m | Weight | | Item no. |
|-----------|--------------|----------------------|------------|--------------|-----------|--------|----------|----------|
| | | thick- ness mm | Dim. mm | | | m | kg/100 m | |
| TSG 60 A2 | 60 | 0.75 | 3000 | | 3 | 55.660 | | 6062084 |
| TSG 60 A4 | 60 | 0.75 | 3000 | | 3 | 55.670 | | 6062086 |

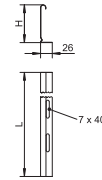


Separating retainer for the separation of cables of different voltages or functions.

St FS DD

Barrier strip 85

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

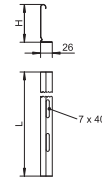


Barrier strip for separation of cables of different voltages or functions.

VA 2B

Barrier strip 85

| Type | Dim. H mm | Metal | | Dim. L mm | Pack m | Weight | | Item no. |
|-----------|--------------|----------------------|------------|--------------|-----------|--------|----------|----------|
| | | thick- ness mm | Dim. mm | | | m | kg/100 m | |
| TSG 85 A2 | 85 | 0.75 | 3000 | | 3 | 70.351 | | 6062173 |

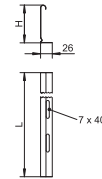


Barrier strip for separation of cables of different voltages or functions.

St FS DD

Separating retainer 110

| Type | Dim. H mm | Metal | | Dim. L mm | Pack m | Weight | | Item no. |
|------------|--------------|----------------------|------------|--------------|-----------|--------|----------|----------|
| | | thick- ness mm | Dim. mm | | | m | kg/100 m | |
| TSG 110 FS | 110 | 0.75 | 3000 | | 3 | 85.000 | | 6062122 |
| TSG 110 DD | 110 | 0.75 | 3000 | | 3 | 85.000 | | 6062335 |

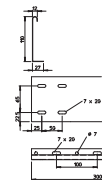


Separating retainer for separation of cables of different voltages or functions.

VA 2B

Barrier strip 110

| Type | Dim. H mm | Metal | | Dim. L mm | Pack m | Weight | | Item no. |
|------------|--------------|----------------------|------------|--------------|-----------|--------|----------|----------|
| | | thick- ness mm | Dim. mm | | | m | kg/100 m | |
| TSG 110 A2 | 110 | 0.75 | 3000 | | 3 | 85.076 | | 6062255 |

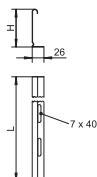


Barrier strip for separation of cables of different voltages or functions.

Separating retainers

Barrier strip 135

St DD



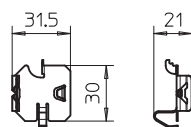
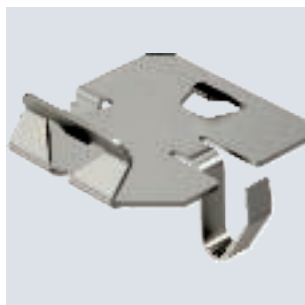
| Type | Dim. H mm | Metal thick- ness mm | Dim. L mm | Pack | Weight | Item no. |
|------------|--------------|----------------------------|--------------|------|----------|----------|
| | | | | m | kg/100 m | |
| TSG 135 DD | 135 | 0.75 | 3000 | 3 | 100.000 | 6062338 |

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

Clamping pieces

Hold-down clamp for separating retainer fastening in RKSM

VA 2B



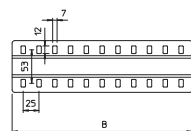
| Type | Pack | Weight | Item no. |
|----------|-------|------------|----------|
| | Piece | kg/100 pc. | |
| KS KR A2 | 30 | 0.537 | 6062280 |

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

Joint plates

Joint plate

St FS DD



| Type | Dim. B mm | Pack | Weight | Item no. |
|-------------|--------------|-------|------------|----------|
| | | Piece | kg/100 pc. | |
| 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 500 DD | 500 | 20 | 49.000 | 7070326 |
| SSLB 550 DD | 550 | 20 | 53.500 | 7070330 |
| SSLB 600 DD | 600 | 20 | 58.000 | 7070334 |

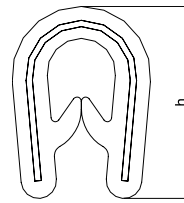
Wide joint plate for use in all cable trays and wide span cable trays.
Including appropriate fastening material.

PVC

Edge protection strip, black

| Type | For metal thickness mm | Dim. 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 |
| KSB 4 PVC GRW | 1.5-4 | 15 | Grey-white | 10000 | 10 | 15.000 | 6072897 |

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



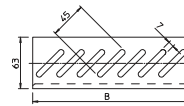
Floor end plates

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.



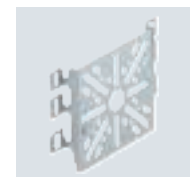
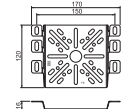
Mounting plates

St VA FS DD 2B

Mounting plate

| Type | Height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|-----------|----------|------------|-------------------|----------|
| MP UNI FS | 120 | 170 | 1 | 13.300 | 7084773 |
| MP UNI DD | 120 | 170 | 1 | 11.000 | 7085114 |
| MP UNI A2 | 120 | 170 | 1 | 11.000 | 7085133 |

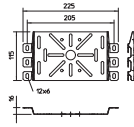
Please order the truss-head bolt, type FRSB 6 x 12, separately.
Mounting plate, for fastening on the side rail of cable support systems.



Mounting plates

Mounting plate

St FS



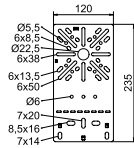
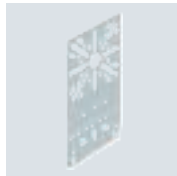
| Type | Height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|--------------|-------------|---------------|----------------------|----------|
| MP 225 UNI FS | 115 | 225 | 1 | 20.000 | 7084870 |

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, flat

St FS DD



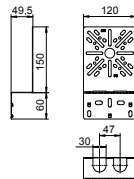
| Type | Height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|--------------|-------------|---------------|----------------------|----------|
| MP FL FS | 235 | 120 | 1 | 19.200 | 7084757 |
| MP FL DD | 235 | 120 | 1 | 19.200 | 7085108 |

Please order the truss-head bolt, type FRSB 6 x 12, separately.

Flat mounting plate, for fastening on the side rail of the cable tray.

Mounting plate, angled

St FS DD



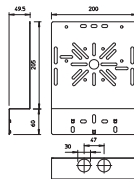
| Type | Height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|--------------|-------------|---------------|----------------------|----------|
| MP WI KL FS | 210 | 120 | 1 | 20.200 | 7084765 |
| MP WI KL DD | 210 | 120 | 1 | 20.200 | 7085111 |

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, wide

St FS DD



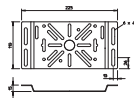
| Type | Height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|--------------|-------------|---------------|----------------------|----------|
| MP WI GR FS | 240 | 200 | 1 | 39.400 | 7084781 |
| MP WI GR DD | 240 | 200 | 1 | 39.400 | 7085112 |

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 FS

St FS



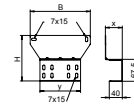
| Type | Height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------|--------------|-------------|---------------|----------------------|----------|
| MP FS | 110 | 225 | 1 | 20.000 | 7084919 |

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 DD

Mounting plate for FireBox T series

| Type | Dim. | Dim. | Dim. | Dimension | Pack Piece | Weight kg/100 pc. | Item no. |
|---------|------|------|------|-----------|------------|-------------------|----------|
| | H mm | B mm | x mm | | | | |
| MP T610 | 141 | 185 | 52 | 125 | 1 | 23.600 | 7205480 |
| MP T616 | 159 | 220 | 63 | 165 | 1 | 34.500 | 7205484 |

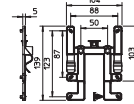


Mounting plate for the fastening of junction boxes of the FireBox T series (with external fastening) onto cable trays or cable ladders with a side height of 60 mm. The angled construction from sheet steel reinforced through crimps enables the secure mounting of cables that maintain electrical functionality, without having to bend the cable over the side rail.

PC

Fastening element for cable tray

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|------------|-------------------|----------|
| BE TS KR | 10 | 2.800 | 2007835 |

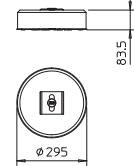


The fastening element BE TS KR can be used to attach OBO junction boxes, type T60 and T100, to all standard cable trays in a few actions, quickly and without tools. This keeps the junction box securely in position. However, it can be quickly dismantled as necessary. This is all done without using tools.

TrayFix stands

Stand - TrayFix set 10 L

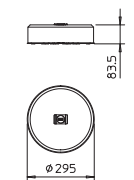
| Type | From tray width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|--------------------|------------|-------------------|----------|
| TrayFix-10-L | 100 | 1 | 1,100.000 | 5403101 |



- Mounting system for the fastening of mesh cable trays with the FangFix stone, e.g. cable routing on a flat roof.
- Matched to OBO cable tray systems MKSM and SKSM.
- Matched to OBO mesh cable systems with a minimum width of 100 mm.
- Set consisting of TrayFix mounting adapter and concrete block including base for FangFix system 10 kg.

Stand - TrayFix set 10 S

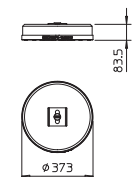
| Type | From tray width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|--------------------|------------|-------------------|----------|
| TrayFix-10-S | 100 | 1 | 1,000.000 | 5403102 |



- Mounting system for the fastening of mesh cable trays with the FangFix stone, e.g. cable routing on a flat roof.
- Matches to OBO mesh cable tray systems with a minimum width of 100 mm.
- Set consisting of TrayFix mounting adapter and concrete block including base for FangFix system 10 kg.

Stand - TrayFix set 16 L

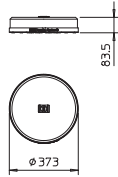
| Type | From tray width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|--------------------|------------|-------------------|----------|
| TrayFix-16-L | 100 | 1 | 1,700.000 | 5403098 |



- Mounting system for the fastening of mesh cable trays with the FangFix stone, e.g. cable routing on a flat roof.
- Matched to OBO cable tray systems MKSM and SKSM.
- Matched to OBO mesh cable systems with a minimum width of 100 mm.
- Set consisting of TrayFix mounting adapter and concrete block including base for FangFix system 16 kg.

TrayFix stands

Stand - TrayFix set 16 S



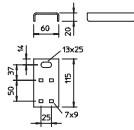
| Type | From tray width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|--------------------|------------|-------------------|----------|
| TrayFix-16-S | 100 | 1 | 1,700.000 | 5403099 |

- Mounting system for the fastening of mesh cable trays with the FangFix base, e.g. for cable routing on a flat roof.
- Matches OBO mesh cable tray systems with a minimum width of 100 mm
- Set consisting of TrayFix mounting adapter and concrete block incl. base for FangFix system 16 kg

Connection components

Connection component

St FT

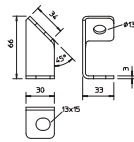


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|--------|------------|-------------------|----------|
| ABR FT | 20 | 24.648 | 6364942 |

The connection component is the connection between the threaded rod lock and the suspension system for the routing types with cable trays for the maintenance of electrical function to DIN 4102 Part 12. Including bolts and nuts.

Connection component, sloping

St FS FT

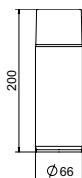


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|--------|------------|-------------------|----------|
| ABS FS | 20 | 7.200 | 6365027 |
| ABS FT | 20 | 7.800 | 6365035 |

The connection component is the connecting element for the sloping arrangement of the threaded rod locking for wall mounting of the standard routing types with cable ladders and cable trays for the maintenance of electrical function to DIN 4102 Part 12.

Surface refinements

Zinc repairs

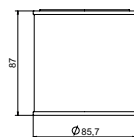


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|------|------------|-------------------|----------|
| ZSF | 1 | 45.000 | 2362970 |

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 |

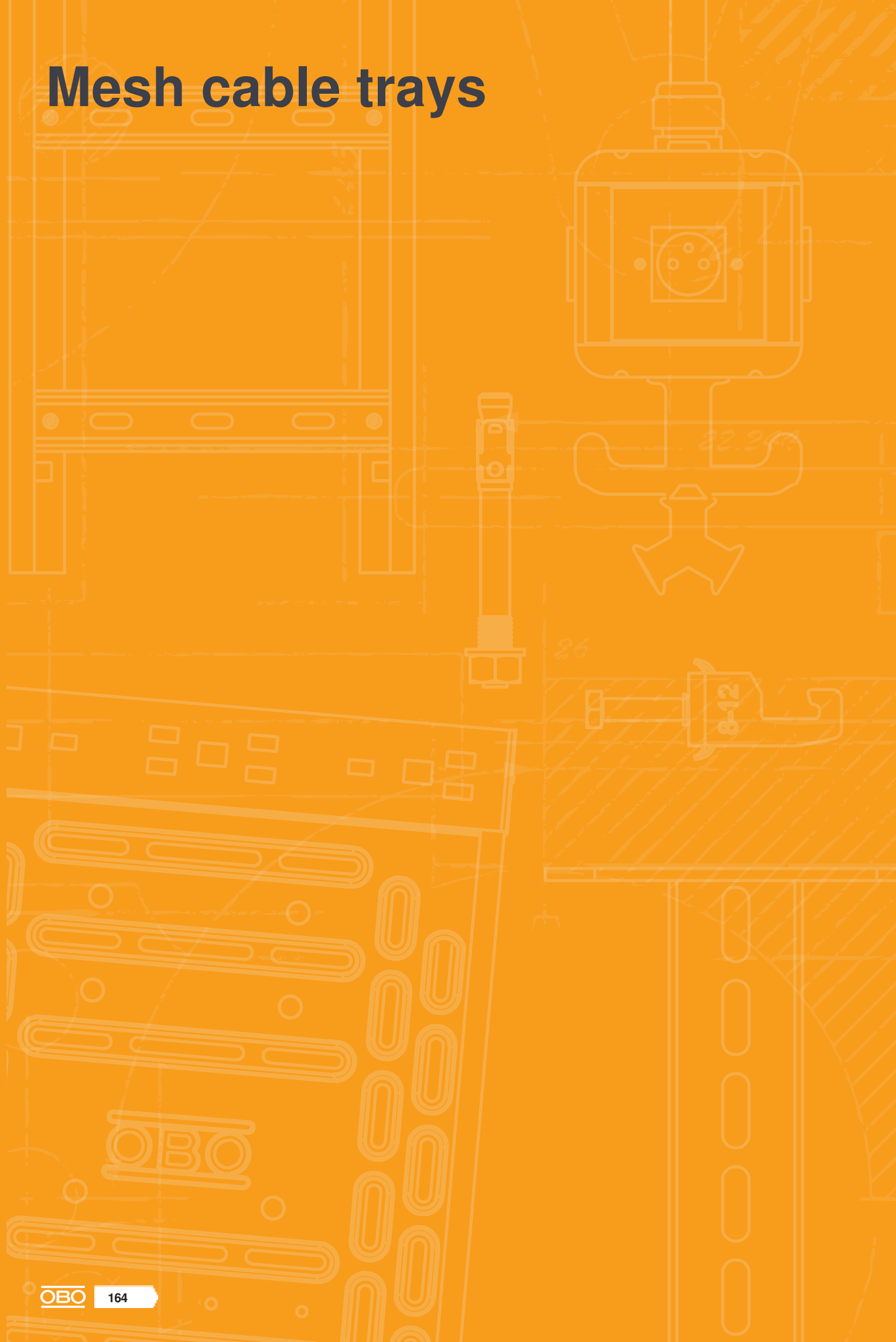
Zinc repair paint for blank areas on the hot galvanised steel parts, to eliminate grinding and welding damage on the galvanisation and to adapt ungalvanised small parts on galvanised structures.

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.











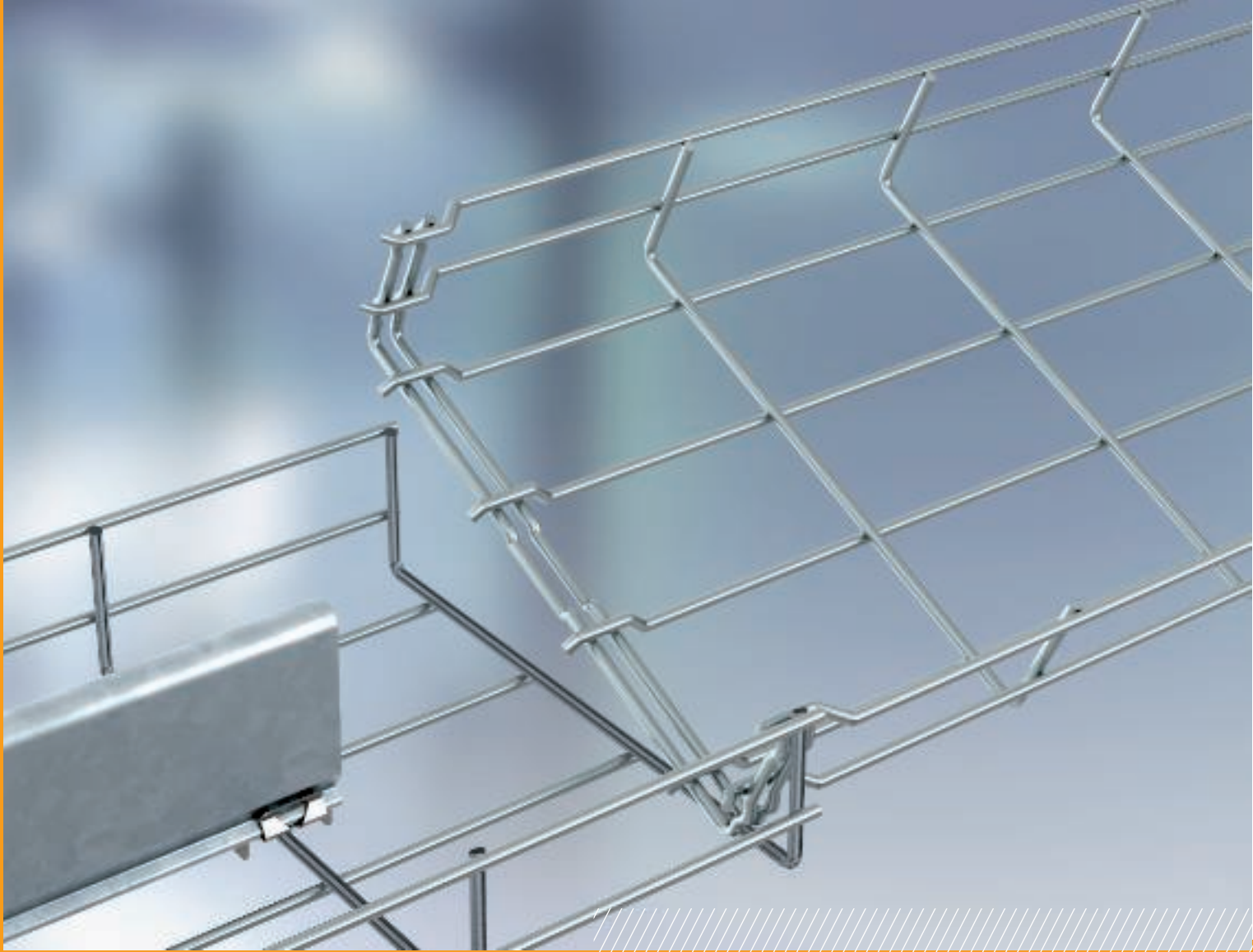
Mesh cable trays



Mesh cable trays

| | | |
|--|---|-----|
|  | Mesh cable trays, plug connection | 166 |
|  | Mesh cable trays, screw connection | 194 |
|  | Mesh cable trays, screw connection fittings | 204 |
|  | Connector | 206 |
|  | Lid | 210 |
|  | Accessories, mesh cable trays | 212 |



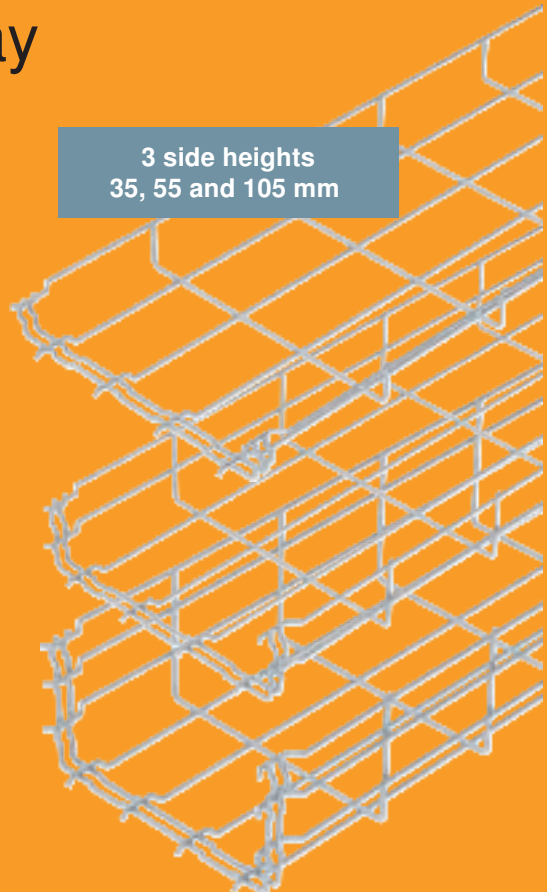


GR-Magic® mesh cable tray

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.

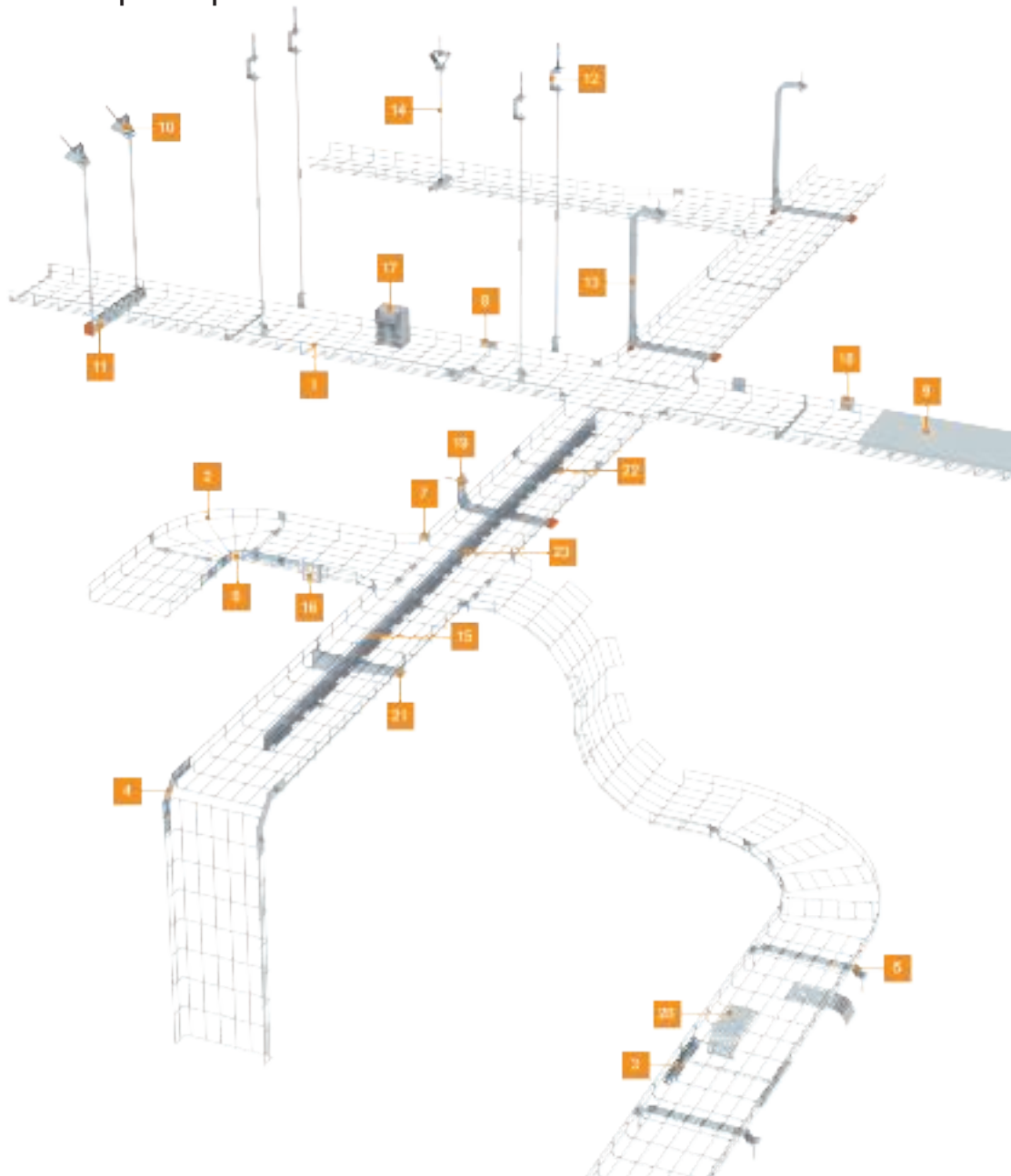
- Fast and secure connection through plug connection
- Locking system accessory, such as the barrier strips
- Maintenance of electrical function, tested
- Equipotential bonding without additional components
- VDE and UL approved mesh cable tray system

3 side heights
35, 55 and 105 mm



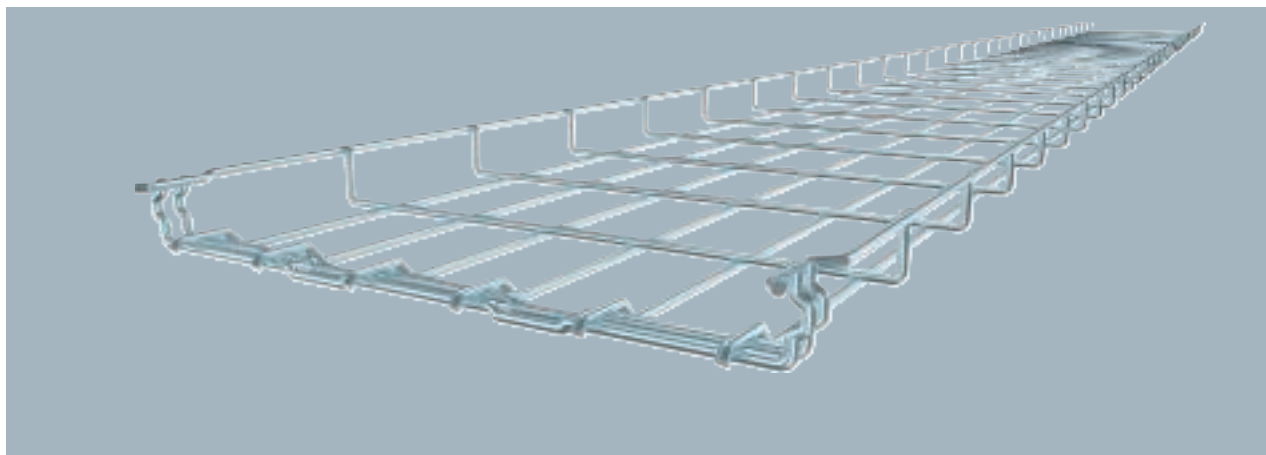
GR-Magic® mesh cable tray

Installation principle



| | | | | | |
|----|---------------------------------|--------|----|---|--------|
| 1 | GR-Magic mesh cable tray | | 13 | TP suspended support | TPS |
| 2 | 90° mesh cable tray bend | GRB 90 | 14 | Central suspension, GMS | GMS |
| 3 | Mesh cable tray connector, long | GRV | 15 | Barrier strip | TSG |
| 4 | 90° mounting bracket | MW 90 | 16 | Mounting plate | MPG |
| 5 | Stand-off bracket | GKT | 17 | Fastening element for junction box | MP |
| 6 | Slotted steel strap, bent | OSG | 18 | Wall and ceiling bracket | TPD |
| 7 | Corner connector | GEV | 19 | Wall and support bracket TPSAG | TPSAG |
| 8 | Joint connector | GSV | 20 | Cable exit plate | KAB GR |
| 9 | Cover, unperforated | DGRR | 21 | AWG 15 wall and support bracket | AWG 15 |
| 10 | Ceiling clamp, variable | GKS | 22 | Hold-down clamp for barrier strip fastening | GKS 50 |
| 11 | Mounting rail, MS 41 | MS 41 | 23 | Barrier strip connector | KS GR |
| 12 | Ceiling bracket | TPD | | | |

Mesh cable tray GR-Magic® 35



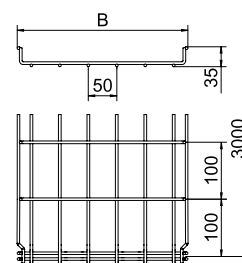
| Type | Wire | | Pack m | Weight kg/100 m | Item no. |
|--------------|-------------|---------|-----------|--------------------|----------|
| | Width mm | Ø mm | | | |
| GRM 35 50 G | 50 | 3.9 | 3 | 45.000 | 6000060 |
| GRM 35 100 G | 100 | 3.9 | 3 | 50.333 | 6000062 |
| GRM 35 150 G | 150 | 3.9 | 3 | 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 |

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.

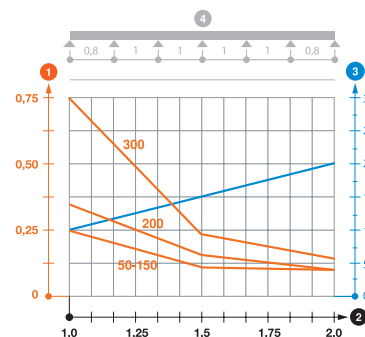
| Type | Length mm | Dim. B mm | Usable |
|--------------|--------------|--------------|----------------------|
| | | | cross-section cm² |
| GRM 35 50 G | 3000 | 52 | 17.5 |
| GRM 35 100 G | 3000 | 100 | 35 |
| GRM 35 150 G | 3000 | 150 | 52.5 |
| GRM 35 200 G | 3000 | 200 | 70 |
| GRM 35 300 G | 3000 | 300 | 105 |

Dimensions



| | 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 |

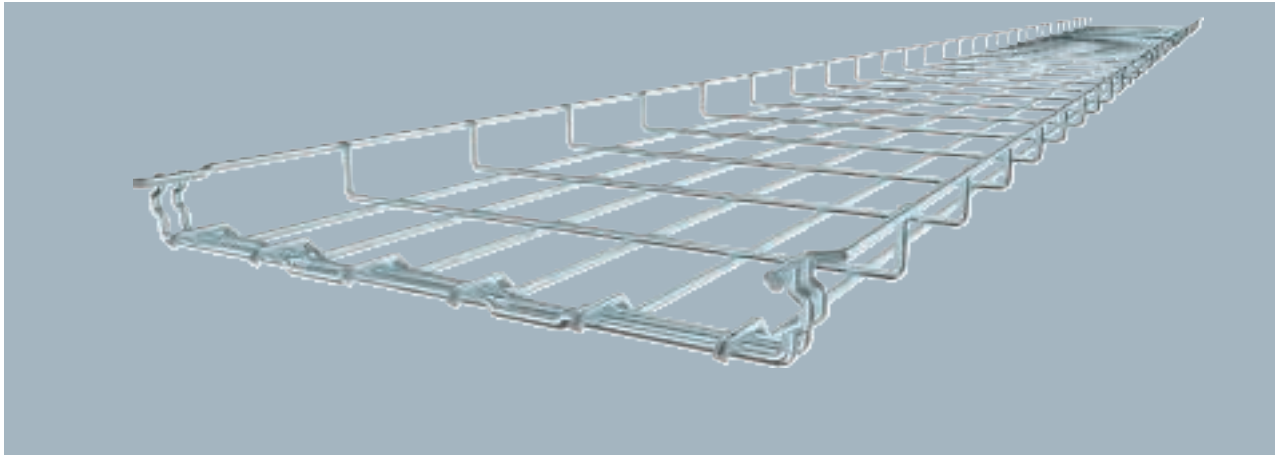
Load



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

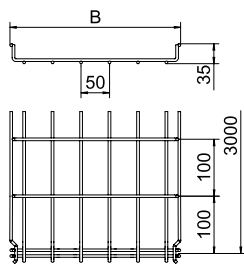
Mesh cable tray GR-Magic® 35



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.

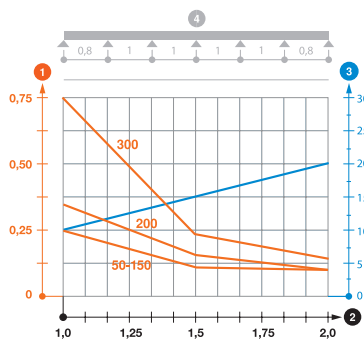
| Type | Wire | | Pack | Weight | Item no. |
|---------------|-------|-----|------|---------|----------|
| | Width | Ø | | | |
| GRM 35 50 FT | 50 | 3.9 | 3 | 46.000 | 6000069 |
| GRM 35 100 FT | 100 | 3.9 | 3 | 50.333 | 6000071 |
| GRM 35 150 FT | 150 | 3.9 | 3 | 64.333 | 6000072 |
| GRM 35 200 FT | 200 | 3.9 | 3 | 78.333 | 6000073 |
| GRM 35 300 FT | 300 | 4.8 | 3 | 165.333 | 6000075 |

Dimensions



| Type | Length | Usable | |
|---------------|--------|--------|---------------|
| | | Dim. | cross-section |
| 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 |

Load

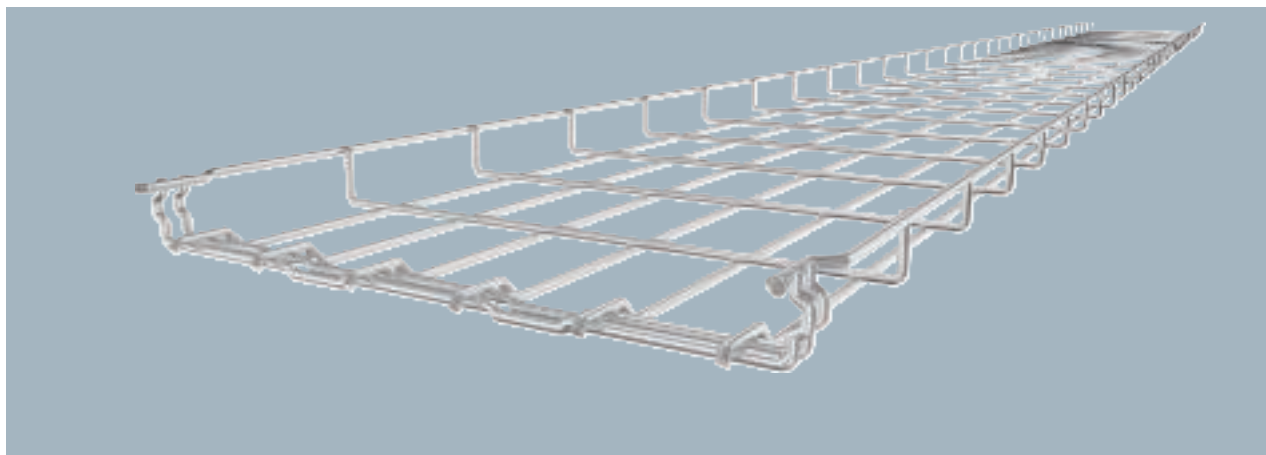


| | 1.0 m | 1.5 m | 2.0 m |
|---------------|-------|-------|-------|
| | kN/m | kN/m | kN/m |
| GRM 35 50 FT | 0.25 | 0.11 | 0.1 |
| GRM 35 100 FT | 0.25 | 0.11 | 0.1 |
| GRM 35 150 FT | 0.25 | 0.11 | 0.1 |
| GRM 35 200 FT | 0.3 | 0.14 | 0.3 |
| GRM 35 300 FT | 0.75 | 0.22 | 0.15 |

Load diagram, GR-Magic mesh cable tray, type GRM 35

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

Mesh cable tray GR-Magic®



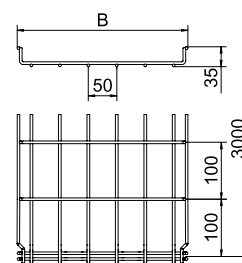
| Type | Wire | | Pack m | Weight kg/100 m | Item no. |
|---------------|-------------|---------|-----------|--------------------|----------|
| | Width mm | Ø mm | | | |
| GRM 35 50 A2 | 50 | 3.9 | 3 | 45.000 | 6000054 |
| GRM 35 100 A2 | 100 | 3.9 | 3 | 49.000 | 6000055 |
| GRM 35 150 A2 | 150 | 3.9 | 3 | 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 |

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.

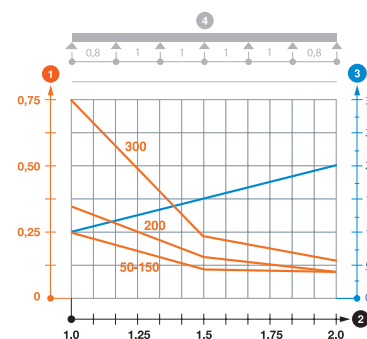
| Type | Length mm | Dim. B mm | Usable Dim. cross- section cm ² |
|---------------|--------------|--------------|---|
| | | | |
| GRM 35 100 A2 | 3000 | 100 | 35 |
| GRM 35 150 A2 | 3000 | 150 | 52.5 |
| GRM 35 200 A2 | 3000 | 200 | 70 |
| GRM 35 300 A2 | 3000 | 300 | 105 |

Dimensions



| | 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

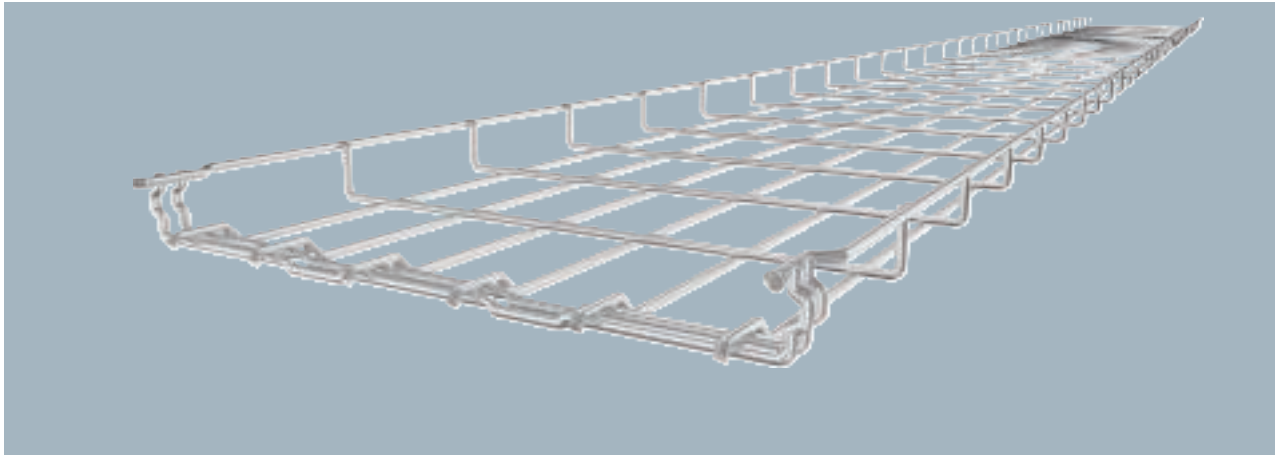


Load diagram, GR-Magic mesh cable tray, type GRM 35

- 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



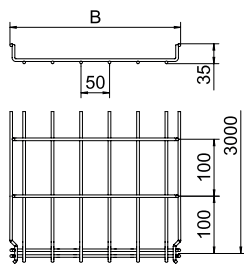
Mesh cable tray GR-Magic® 35



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.

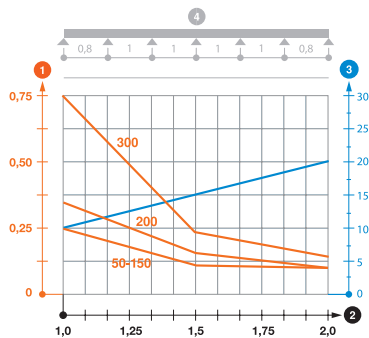
| Type | Wire | | Pack m | Weight kg/100 m | Item no. |
|---------------|----------|------|--------|-----------------|----------|
| | Width mm | Ø mm | | | |
| GRM 35 50 A4 | 50 | 3.9 | 3 | 45.000 | 6000086 |
| GRM 35 100 A4 | 100 | 3.9 | 3 | 49.000 | 6000087 |
| GRM 35 150 A4 | 150 | 3.9 | 3 | 63.333 | 6000089 |
| GRM 35 200 A4 | 200 | 3.9 | 3 | 76.000 | 6000090 |
| GRM 35 300 A4 | 300 | 4.8 | 3 | 159.000 | 6000091 |

Dimensions



| Type | Length mm | Usable Dim. | |
|---------------|-----------|-------------|-------------------|
| | | B mm | cross-section cm² |
| 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 |

Load

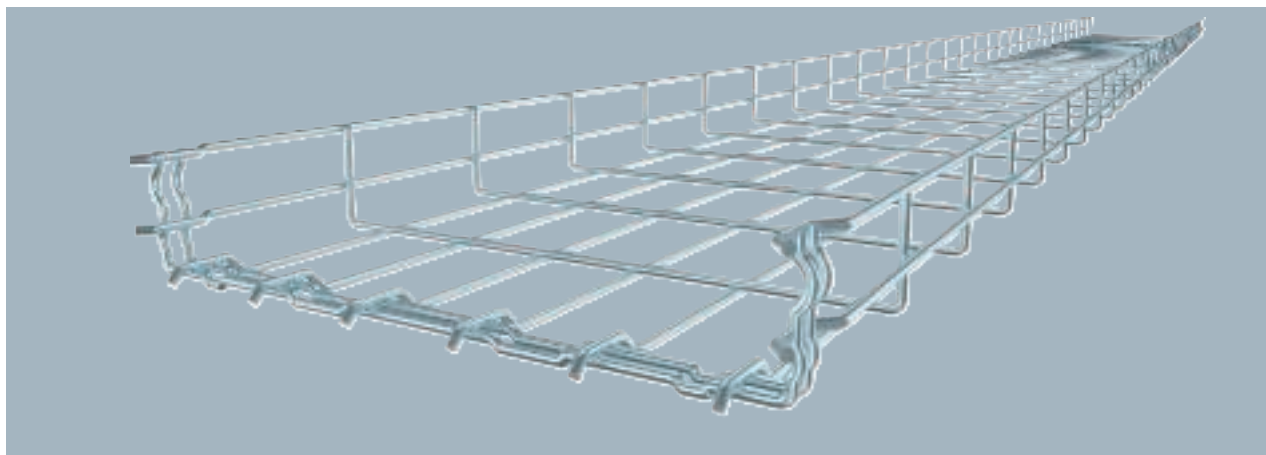


| | 1.0 m | 1.5 m | 2.0 m |
|---------------|-------|-------|-------|
| | kN/m | kN/m | kN/m |
| GRM 35 50 A4 | 0.25 | 0.11 | 0.1 |
| GRM 35 100 A4 | 0.25 | 0.11 | 0.1 |
| GRM 35 150 A4 | 0.25 | 0.11 | 0.1 |
| GRM 35 200 A4 | 0.3 | 0.14 | 0.1 |
| GRM 35 300 A4 | 0.75 | 0.22 | 0.15 |

Load 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

GR-Magic® 55 mesh cable tray



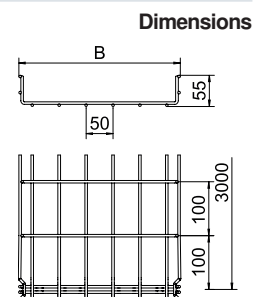
| Type | Wire | | Pack m | Weight kg/100 m | Item no. |
|--------------|-------------|---------|-----------|--------------------|----------|
| | Width mm | Ø mm | | | |
| GRM 55 50 G | 50 | 3.9 | 3 | 67.000 | 6001441 |
| GRM 55 100 G | 100 | 3.9 | 3 | 72.000 | 6001442 |
| GRM 55 150 G | 150 | 3.9 | 3 | 85.667 | 6001444 |
| GRM 55 200 G | 200 | 3.9 | 3 | 100.667 | 6001446 |
| GRM 55 300 G | 300 | 4.8 | 3 | 192.333 | 6001448 |
| GRM 55 400 G | 400 | 4.8 | 3 | 234.667 | 6001450 |
| GRM 55 500 G | 500 | 4.8 | 3 | 276.667 | 6001452 |
| GRM 55 600 G | 600 | 4.8 | 3 | 320.000 | 6001454 |
| GRM 55 450 G | 450 | 4.8 | 3 | 241.333 | 6001451 |

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).

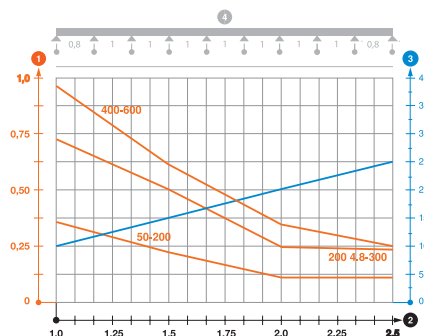
Tested for installation above suspended fire protection ceilings (type: GRM 55 100 G, GRM 55 200 G, GRM 55 300 G, GRM 55 400 G, fire load 30 minutes, mounting work and parameters according to fire protection reports).

| Type | Length mm | Dim. B mm | Usable Dim. cross-section cm² | |
|--------------|--------------|--------------|-------------------------------------|-----|
| | | | B | cm² |
| 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 55 300 G | 3000 | 300 | 129 | |
| GRM 55 400 G | 3000 | 400 | 175 | |
| GRM 55 500 G | 3000 | 500 | 220 | |
| GRM 55 600 G | 3000 | 600 | 265 | |
| GRM 55 450 G | 3000 | 450 | 195 | |



| | 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 |
| 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 55 300 G | 0.7 | 0.5 | 0.25 | 0.2 |
| GRM 55 400 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 |
| GRM 55 450 G | 0.9 | 0.6 | 0.3 | 0.25 |

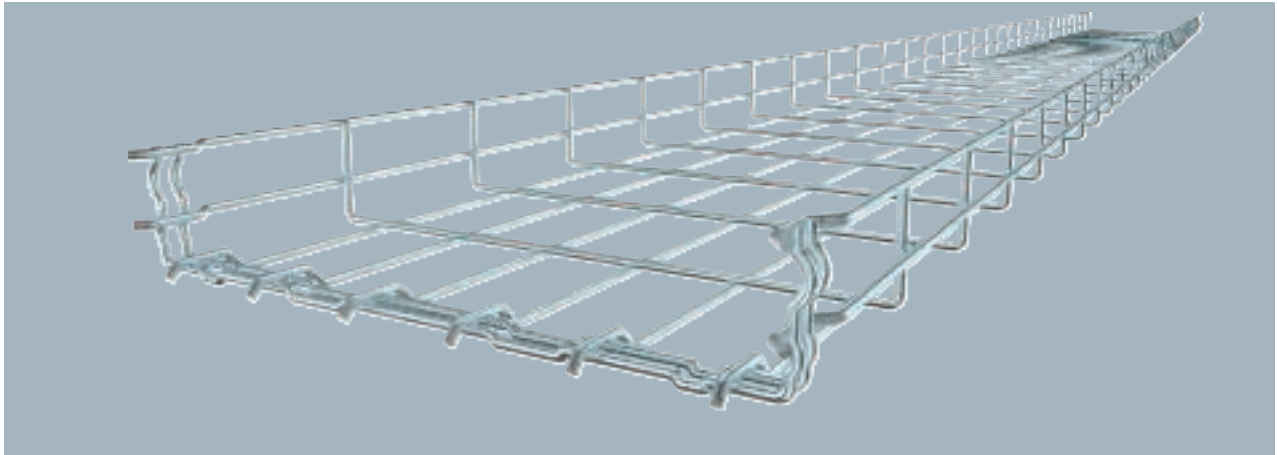
Load



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 GR-Magic® 55

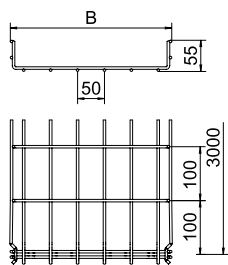


Mesh cable tray with shaped connector of side height 55 mm. Magnetic shield insulation without cover 15 dB, with cover 25 dB. You can find detailed information regarding the UL classification in the respective certification.

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).

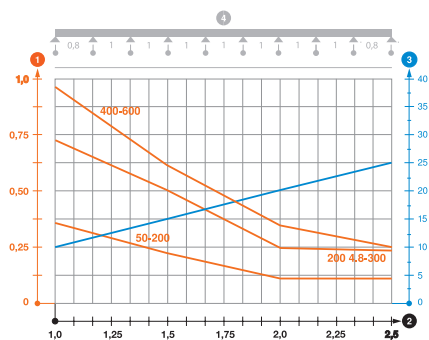
| Type | Wire | | Pack m | Weight kg/100 m | Item no. |
|---------------|----------|------|--------|-----------------|----------|
| | Width mm | Ø mm | | | |
| GRM 55 50 FT | 50 | 3.9 | 3 | 72.333 | 6001415 |
| GRM 55 100 FT | 100 | 3.9 | 3 | 74.667 | 6001416 |
| GRM 55 150 FT | 150 | 3.9 | 3 | 90.000 | 6001418 |
| GRM 55 200 FT | 200 | 3.9 | 3 | 102.000 | 6001420 |
| GRM 55 300 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 | |
|---------------|-----------|-----------|--------------------------|-----|
| | | | Dim. B mm | cm² |
| GRM 55 50 FT | 3000 | 52 | 16 | |
| GRM 55 100 FT | 3000 | 100 | 40 | |
| GRM 55 150 FT | 3000 | 150 | 63 | |
| GRM 55 200 FT | 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

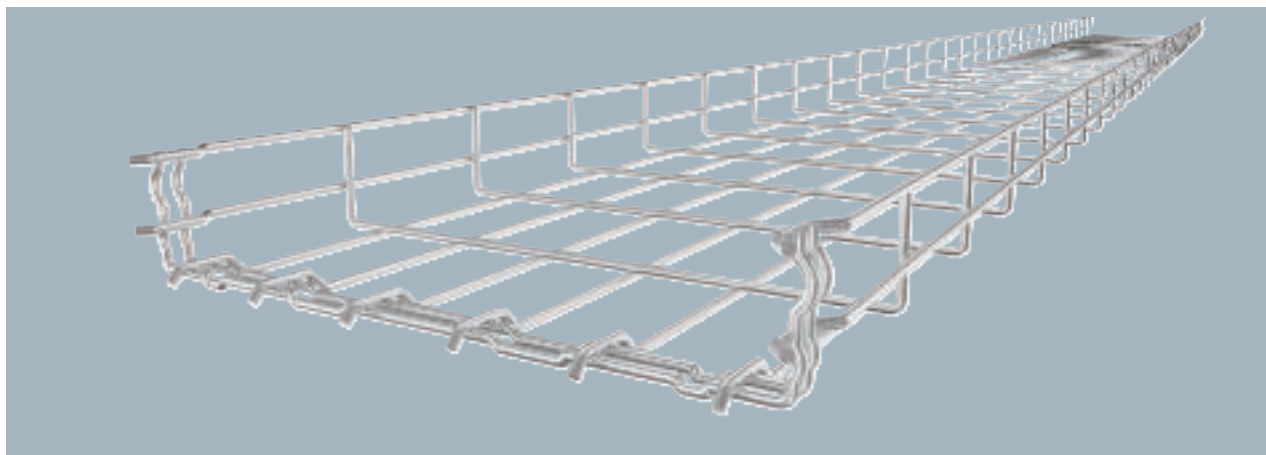


| Type | 1.0 m | 1.5 m | 2.0 m | 2.5 m |
|---------------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/m | kN/m |
| GRM 55 50 FT | 0.35 | 0.2 | 0.1 | 0.1 |
| GRM 55 100 FT | 0.35 | 0.2 | 0.1 | 0.1 |
| GRM 55 150 FT | 0.35 | 0.2 | 0.1 | 0.1 |
| GRM 55 200 FT | 0.35 | 0.2 | 0.1 | 0.1 |
| GRM 55 300 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

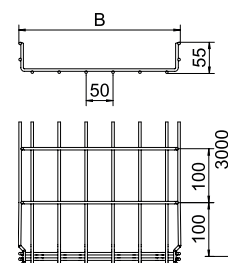


| Type | Wire | | | Pack m | Weight kg/100 m | Item no. |
|---------------|-------------|---------|----|-----------|--------------------|----------|
| | Width mm | Ø mm | BS | | | |
| GRM 55 50 A2 | 50 | 3.9 | | 3 | 67.000 | 6001070 |
| GRM 55 100 A2 | 100 | 3.9 | | 3 | 72.000 | 6001072 |
| GRM 55 150 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).

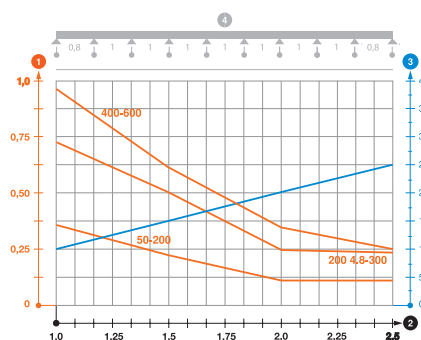
| Type | Length mm | Dim. B mm | Usable |
|---------------|--------------|-----------------|--------------------------------------|
| | | | cross- section cm ² |
| GRM 55 50 A2 | 3000 | 52 | 16 |
| GRM 55 100 A2 | 3000 | 100 | 40 |
| GRM 55 150 A2 | 3000 | 150 | 63 |
| GRM 55 200 A2 | 3000 | 200 | 87 |
| 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



| | 1.0 m | 1.5 m | 2.0 m | 2.5 m |
|---------------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/m | kN/m |
| GRM 55 50 A2 | 0.35 | 0.2 | 0.1 | 0.1 |
| GRM 55 100 A2 | 0.35 | 0.2 | 0.1 | 0.1 |
| GRM 55 150 A2 | 0.35 | 0.2 | 0.1 | 0.1 |
| GRM 55 200 A2 | 0.35 | 0.2 | 0.1 | 0.1 |
| GRM 55 300 A2 | 0.7 | 0.5 | 0.25 | 0.2 |
| GRM 55 400 A2 | 0.9 | 0.6 | 0.3 | 0.25 |
| GRM 55 500 A2 | 0.9 | 0.6 | 0.3 | 0.25 |
| GRM 55 600 A2 | 0.9 | 0.6 | 0.3 | 0.25 |

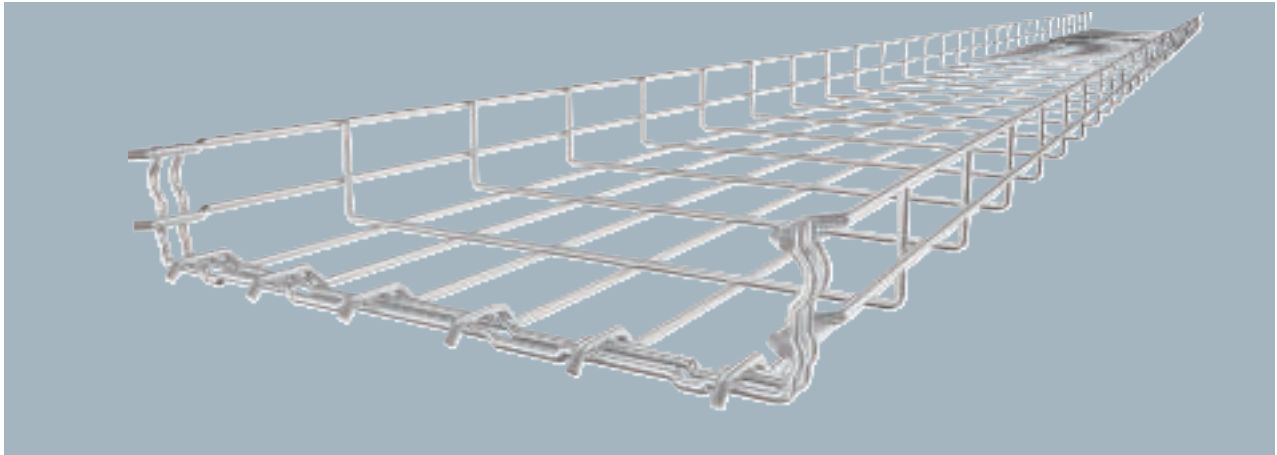
Load



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

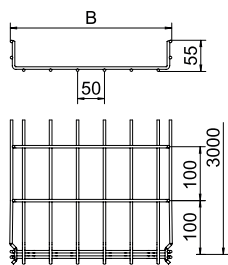
Mesh cable tray GR-Magic® 55



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).

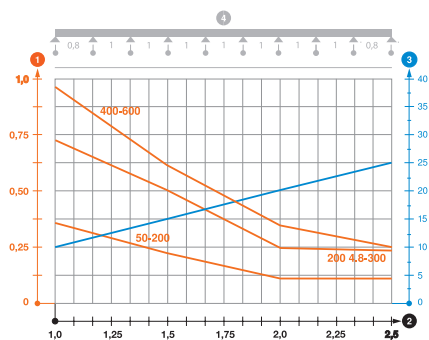
| Type | Wire | | | Pack m | Weight kg/100 m | Item no. |
|---------------|----------|------|----|--------|-----------------|----------|
| | Width mm | Ø mm | BS | | | |
| GRM 55 50 A4 | 50 | 3.9 | | 3 | 67.000 | 6001087 |
| GRM 55 100 A4 | 100 | 3.9 | | 3 | 72.000 | 6001088 |
| GRM 55 150 A4 | 150 | 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 cross-section cm² |
|---------------|-----------|-----------|--------------------------|
| | | | |
| 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

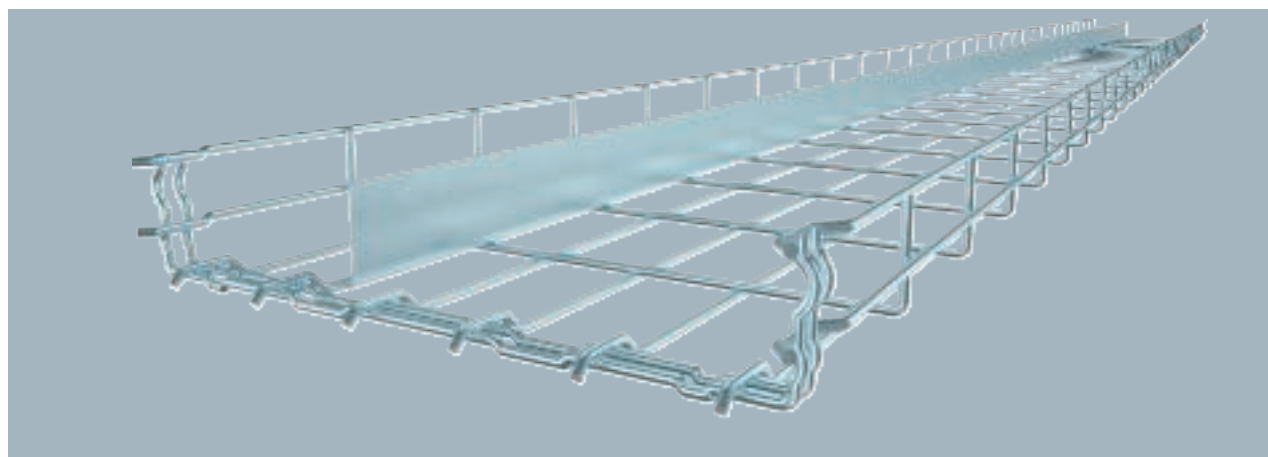


| Type | 1.0 m | 1.5 m | 2.0 m | 2.5 m |
|---------------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/m | kN/m |
| GRM 55 50 A4 | 0.35 | 0.2 | 0.1 | 0.1 |
| GRM 55 100 A4 | 0.35 | 0.2 | 0.1 | 0.1 |
| GRM 55 150 A4 | 0.35 | 0.2 | 0.1 | 0.1 |
| GRM 55 200 A4 | 0.35 | 0.2 | 0.1 | 0.1 |
| GRM 55 300 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



| 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 |

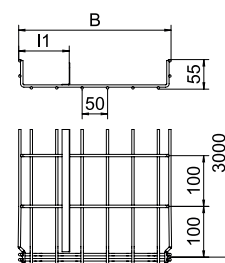
Mesh cable tray with shaped connector and welded barrier strips of side height 55 mm.

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.

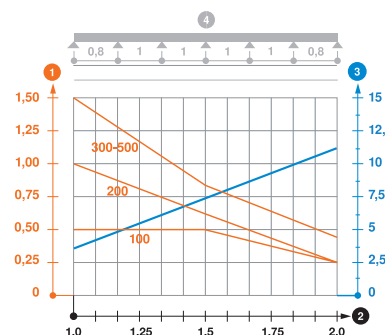
| Type | Length mm | Dim. B mm | Usable cross- section cm ² |
|----------------|--------------|-----------------|--|
| | | | |
| GRM-T 55 200 G | 3000 | 200 | 87 |
| GRM-T 55 300 G | 3000 | 300 | 129 |
| GRM-T 55 400 G | 3000 | 400 | 175 |
| GRM-T 55 500 G | 3000 | 500 | 220 |

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

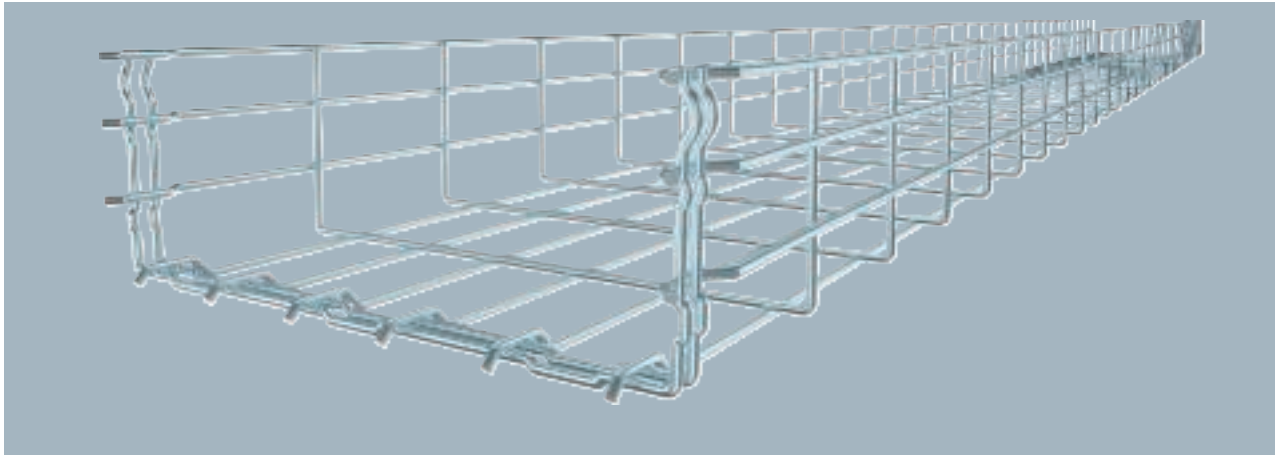


Load diagram, GR-Magic mesh cable tray, type GRM-1T 55

- 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

St G

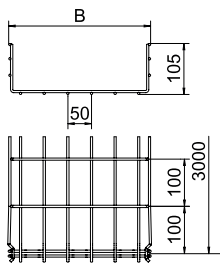
Mesh cable tray GR-Magic® 105



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.

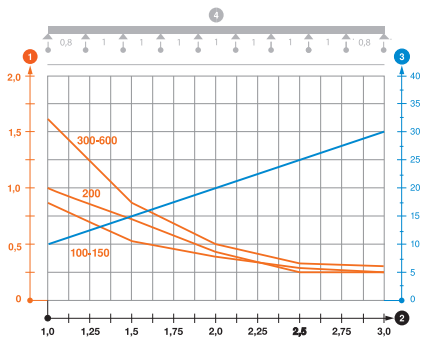
| Type | Wire | | Pack | Weight | Item no. |
|---------------|-------|-----|------|---------|----------|
| | Width | Ø | | | |
| GRM 105 100 G | 100 | 3.9 | 3 | 99.333 | 6002402 |
| GRM 105 150 G | 150 | 3.9 | 3 | 111.667 | 6002404 |
| GRM 105 200 G | 200 | 4.8 | 3 | 192.333 | 6002406 |
| GRM 105 300 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 |

Dimensions



| Type | Length | Dim. B | Usable |
|---------------|--------|--------|-----------------|
| | | | cross-section |
| | mm | mm | 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 |

Load



| Type | 1.0 m | 1.5 m | 2.0 m | 3.0 m |
|---------------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/m | kN/m |
| GRM 105 100 G | 0.8 | 0.55 | 0.37 | 0.25 |
| GRM 105 150 G | 0.8 | 0.55 | 0.37 | 0.25 |
| GRM 105 200 G | 1 | 0.7 | 0.4 | 0.25 |
| GRM 105 300 G | 1.6 | 0.8 | 0.5 | 0.3 |
| GRM 105 400 G | 1.6 | 0.8 | 0.5 | 0.3 |
| GRM 105 450 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 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

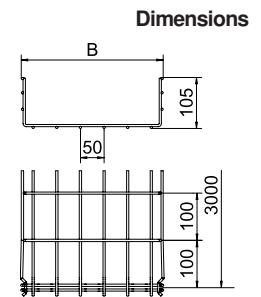
St FT



| Type | Wire | | Pack m | Weight kg/100 m | Item no. |
|----------------|-------------|---------|-----------|--------------------|----------|
| | Width mm | Ø mm | | | |
| 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 |

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.

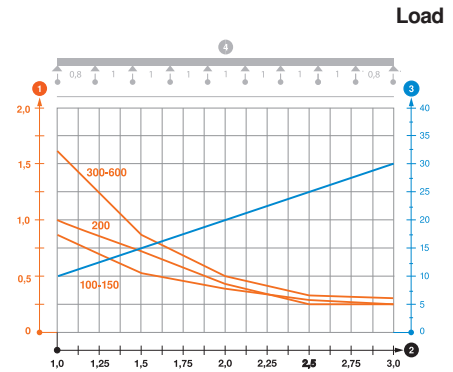
| Type | Length mm | Usable | |
|----------------|--------------|--------------|----------------------------------|
| | | Dim. B mm | cross-section cm ² |
| GRM 105 100 FT | 3000 | 100 | 82 |
| GRM 105 150 FT | 3000 | 150 | 130 |
| GRM 105 200 FT | 3000 | 200 | 175 |
| GRM 105 300 FT | 3000 | 300 | 268 |
| 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 |



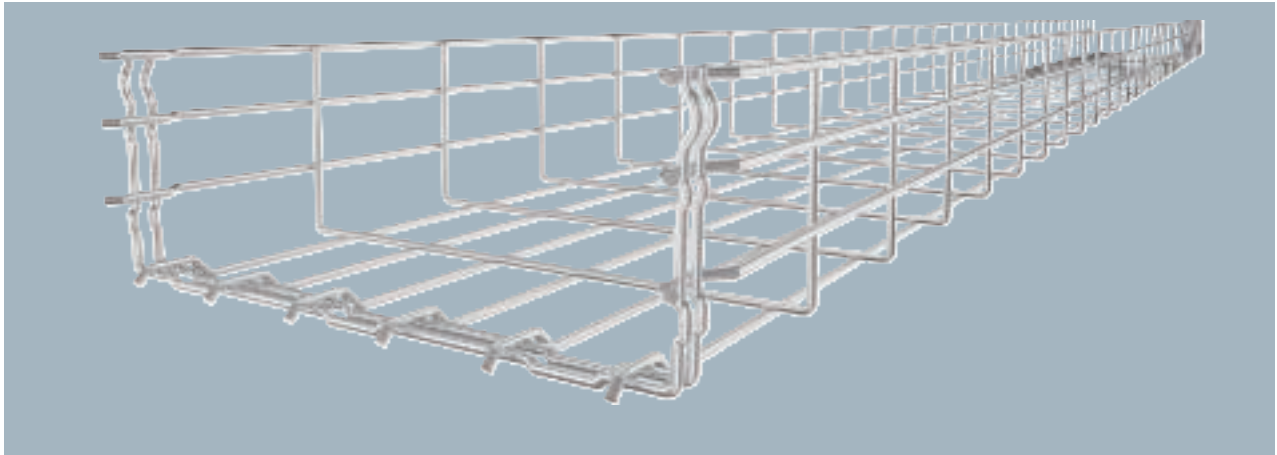
| | 1.0 m | 1.5 m | 2.0 m | 3.0 m |
|----------------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/m | kN/m |
| GRM 105 100 FT | 0.8 | 0.55 | 0.37 | 0.25 |
| GRM 105 150 FT | 0.8 | 0.55 | 0.37 | 0.25 |
| GRM 105 200 FT | 1 | 0.7 | 0.4 | 0.25 |
| GRM 105 300 FT | 1.6 | 0.8 | 0.5 | 0.3 |
| GRM 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



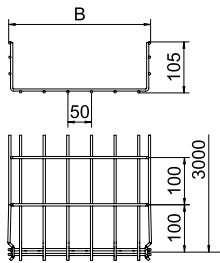
Mesh cable tray GR-Magic® 105



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.

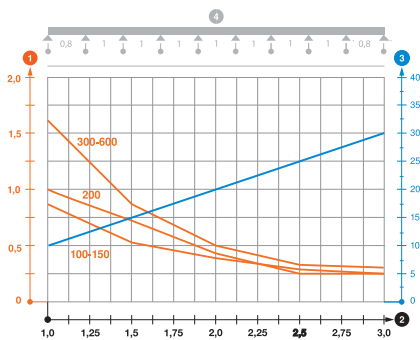
| Type | Wire | | Pack | Weight | Item no. |
|----------------|-------|-----|------|---------|----------|
| | Width | Ø | | | |
| GRM 105 100 A2 | 100 | 3.9 | 3 | 99.333 | 6002451 |
| GRM 105 150 A2 | 150 | 3.9 | 3 | 111.667 | 6002455 |
| GRM 105 200 A2 | 200 | 4.8 | 3 | 200.667 | 6002457 |
| GRM 105 300 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 |

Dimensions



| Type | Length | Usable | |
|----------------|--------|--------|---------------|
| | | Dim. B | cross-section |
| GRM 105 100 A2 | 3000 | 100 | 82 |
| 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 |

Load

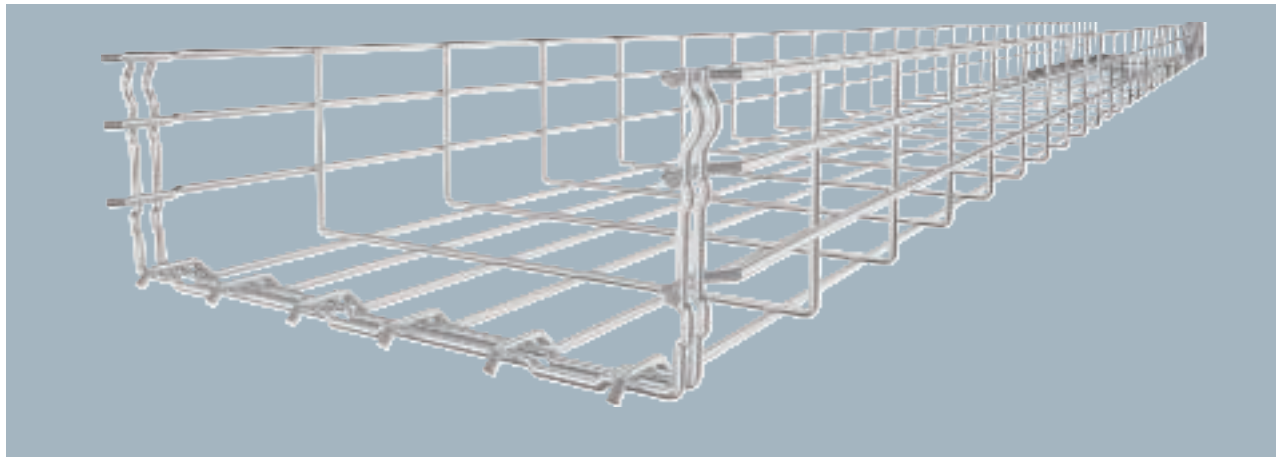


| Type | 1.0 m | 1.5 m | 2.0 m | 3.0 m |
|----------------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/m | kN/m |
| GRM 105 100 A2 | 0.8 | 0.55 | 0.37 | 0.25 |
| GRM 105 150 A2 | 0.8 | 0.55 | 0.37 | 0.25 |
| GRM 105 200 A2 | 0.8 | 0.55 | 0.37 | 0.25 |
| GRM 105 300 A2 | 1.1 | 0.75 | 0.53 | 0.3 |
| GRM 105 400 A2 | 1.1 | 0.75 | 0.53 | 0.3 |
| GRM 105 500 A2 | 1.25 | 0.85 | 0.6 | 0.3 |
| GRM 105 600 A2 | 1.25 | 0.85 | 0.6 | 0.3 |

Load diagram, mesh cable tray, type GRM 105

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

Mesh cable tray GR-Magic® 105

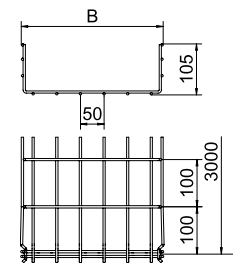


| Type | Width mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|----------------|-------------|-----------------|-----------|--------------------|----------|
| GRM 105 100 A4 | 100 | 3.9 | 3 | 99.333 | 6002475 |
| GRM 105 150 A4 | 150 | 3.9 | 3 | 111.667 | 6002476 |
| GRM 105 200 A4 | 200 | 4.8 | 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 |

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.

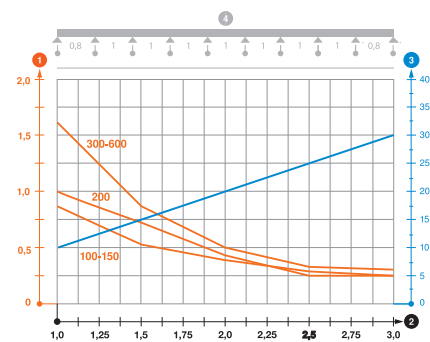
| Type | Length mm | Dim. B mm | Usable cross-section cm ² |
|----------------|--------------|--------------|--|
| GRM 105 100 A4 | 3000 | 100 | 82 |
| GRM 105 150 A4 | 3000 | 150 | 130 |
| GRM 105 200 A4 | 3000 | 200 | 175 |
| GRM 105 300 A4 | 3000 | 300 | 268 |
| GRM 105 400 A4 | 3000 | 400 | 363 |
| GRM 105 500 A4 | 3000 | 500 | 459 |
| GRM 105 600 A4 | 3000 | 600 | 554 |

Dimensions



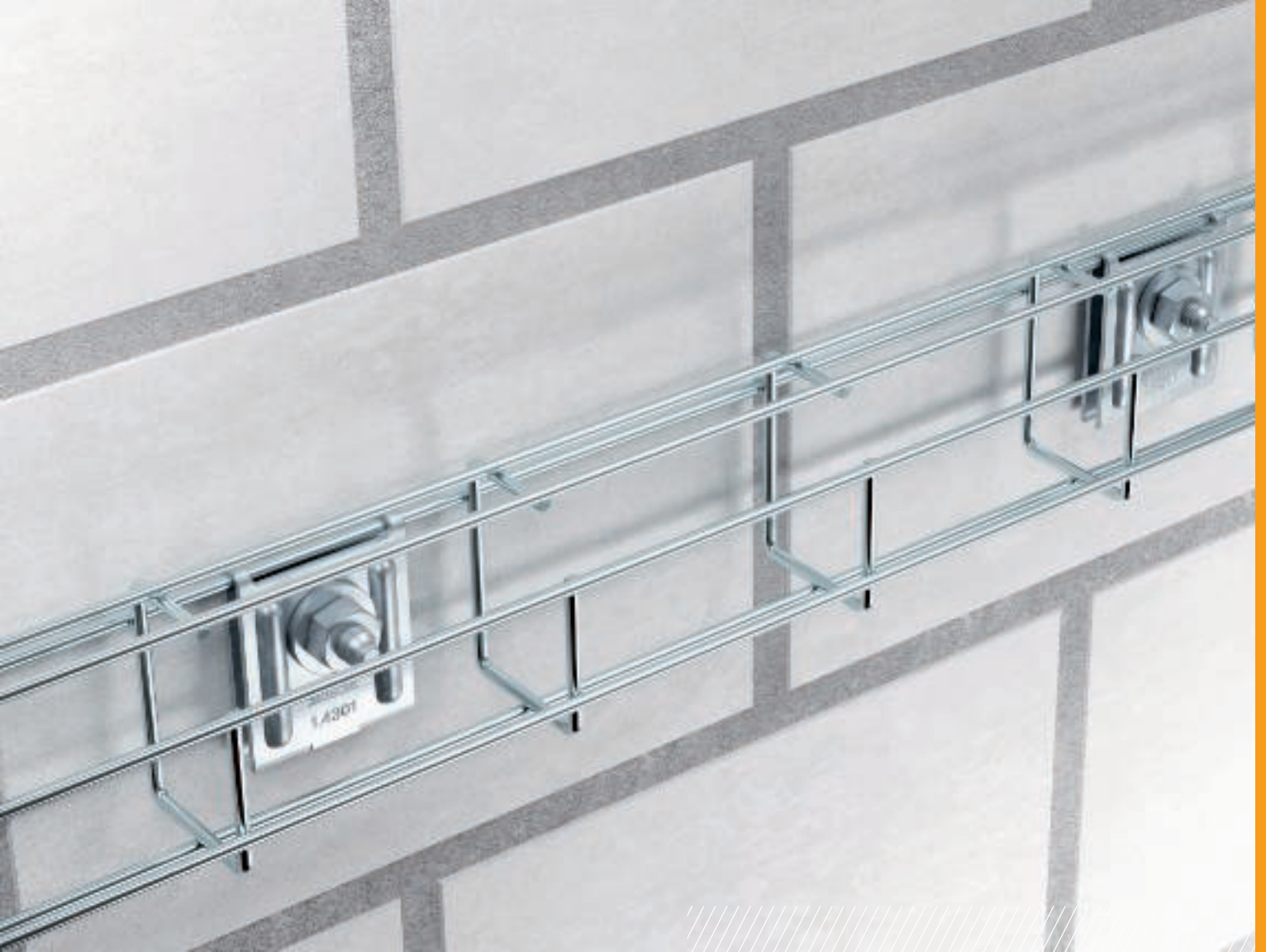
| | 1.0 m | 1.5 m | 2.0 m | 3.0 m |
|----------------|-------|-------|-------|-------|
| | kN/m | | | |
| GRM 105 100 A4 | 0.8 | 0.55 | 0.37 | 0.25 |
| GRM 105 150 A4 | 0.8 | 0.55 | 0.37 | 0.25 |
| GRM 105 200 A4 | 0.8 | 0.55 | 0.37 | 0.25 |
| GRM 105 300 A4 | 1.1 | 0.75 | 0.53 | 0.3 |
| GRM 105 400 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



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



Magic G mesh cable tray

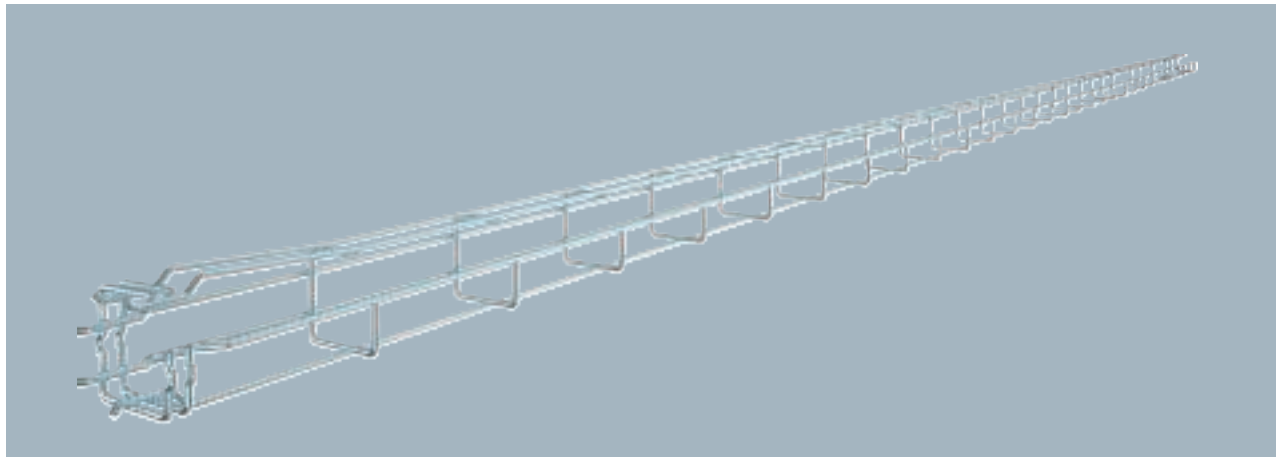
The Magic G mesh cable tray is the ideal extension of the Magic solutions for the OBO Bettermann mesh cable tray systems. The quick Magic connection means that a screwless and easy-to-mount variant is now offered for the G mesh cable tray

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.



G mesh cable tray Magic® 50

St G



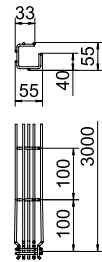
| Type | Side height mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---------------|----------------|-----------|--------|-----------------|----------|
| G-GRM 50 50 G | 50 | 3.9 | 3 | 67.067 | 6005535 |

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.

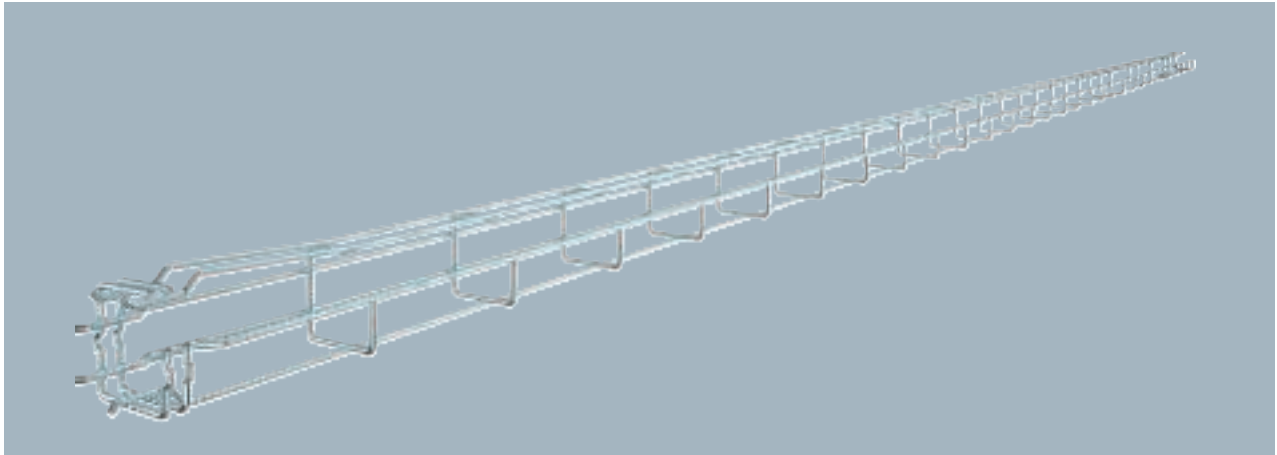
| Type | Length mm | Dim. B mm | Dim. H mm | Dim. C mm | Dim. A mm |
|---------------|-----------|-----------|-----------|-----------|-----------|
| G-GRM 50 50 G | 3000 | 55 | 55 | 33 | 38 |

Dimensions



St FT

G mesh cable tray Magic® 50

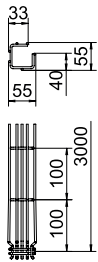


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

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

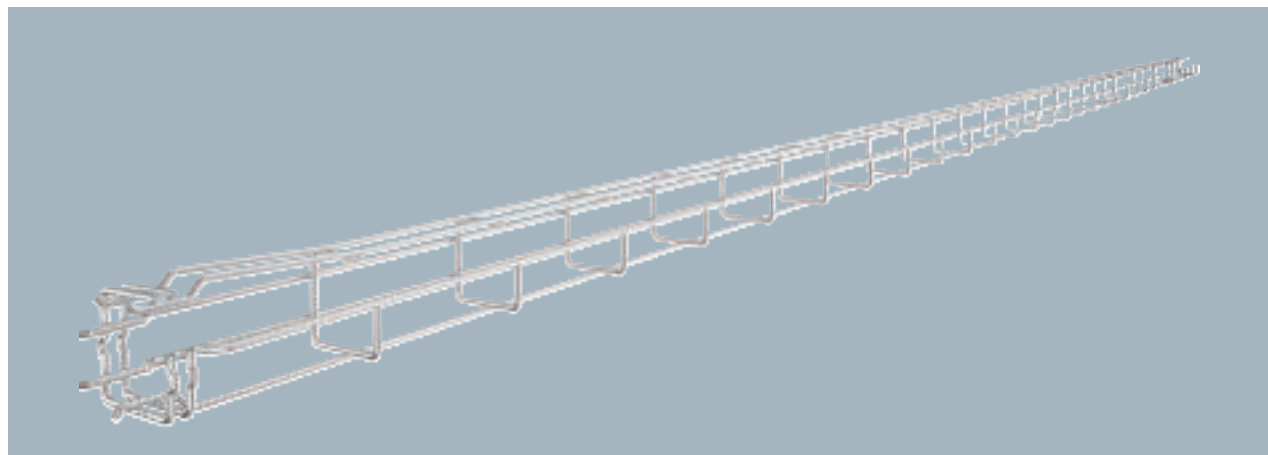


| Type | Length mm | Dim. B mm | Dim. H mm | Dim. C mm | Dim. A mm |
|----------------|--------------|--------------|--------------|--------------|--------------|
| G-GRM 50 50 FT | 3000 | 55 | 55 | 33 | 38 |

Load

| Fastening variant | Support spacing [m] | | | |
|----------------------------|---------------------|------|------|------|
| | Load [kN/m] | | | |
| Fastening variant | 1 | 1.5 | 2 | 2.5 |
| Wall fastening K12 1818 | 0.2 | 0.15 | 0.1 | 0.05 |
| Ceiling fastening K12 1818 | 0.25 | 0.2 | 0.10 | 0.05 |

G mesh cable tray Magic® 50



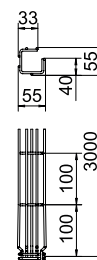
| Type | Side height mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|----------------|-------------------|--------------|-----------|--------------------|----------|
| G-GRM 50 50 A2 | 50 | 3.9 | 3 | 66.567 | 6005550 |

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 |

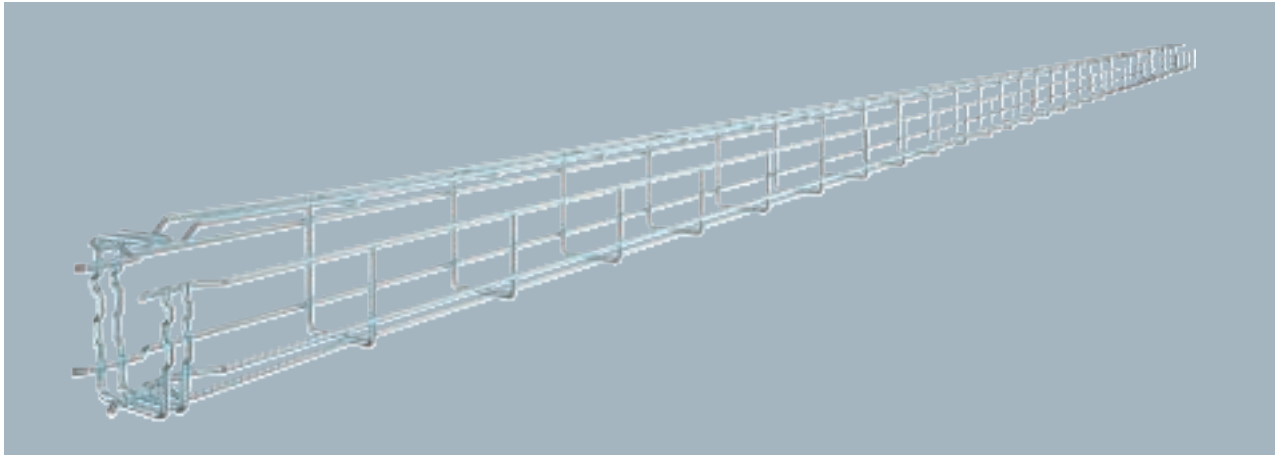
Dimensions



| G-GRM 50/50 | Support spacing [m] | | | |
|----------------------------|---------------------|------|------|------|
| | Load [kN/m] | | | |
| Fastening variant | 1 | 1.5 | 2 | 2.5 |
| Wall fastening K12 1818 | 0.2 | 0.15 | 0.1 | 0.05 |
| Ceiling fastening K12 1818 | 0.25 | 0.2 | 0.10 | 0.05 |

Load

G mesh cable tray Magic® 75

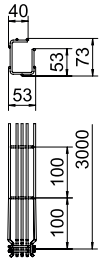


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

| Type | Side height mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---------------|----------------|-----------|--------|-----------------|----------|
| G-GRM 75 50 G | 75 | 3.9 | 3 | 79.867 | 6005538 |

Dimensions

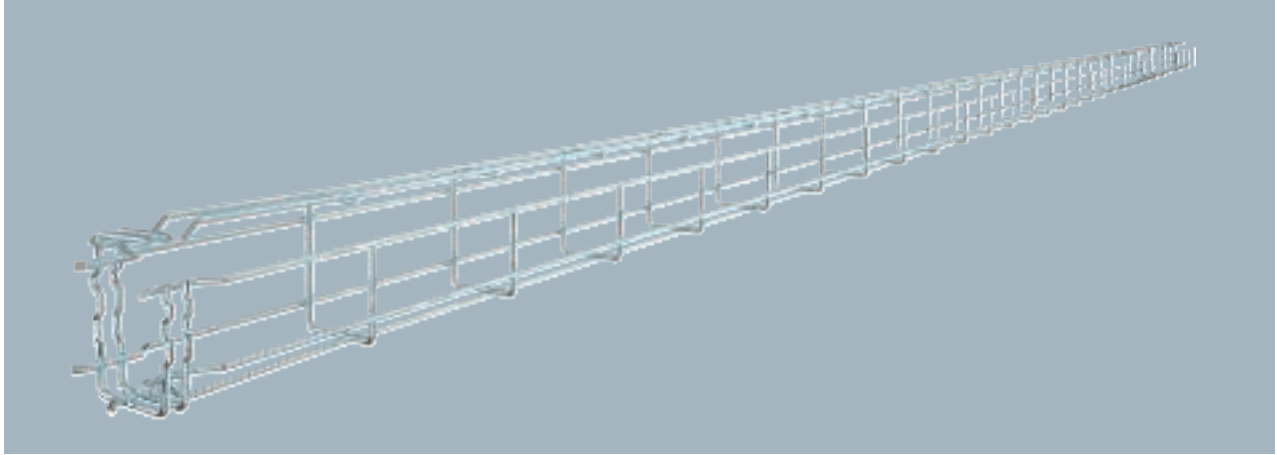


| Type | Length mm | Dim. B mm | Dim. H mm | Dim. C mm | Dim. A mm |
|---------------|-----------|-----------|-----------|-----------|-----------|
| G-GRM 75 50 G | 3000 | 53 | 73 | 38 | 53 |

Load

| Fastening variant | Support spacing [m] | | | |
|----------------------------|---------------------|-----|------|-----|
| | Load [kN/m] | | | |
| 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® 75



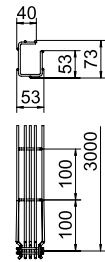
| Type | Side height mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|----------------|-------------------|--------------|-----------|--------------------|----------|
| G-GRM 75 50 FT | 75 | 3.9 | 3 | 83.700 | 6005523 |

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 FT | 3000 | 53 | 73 | 38 | 53 |

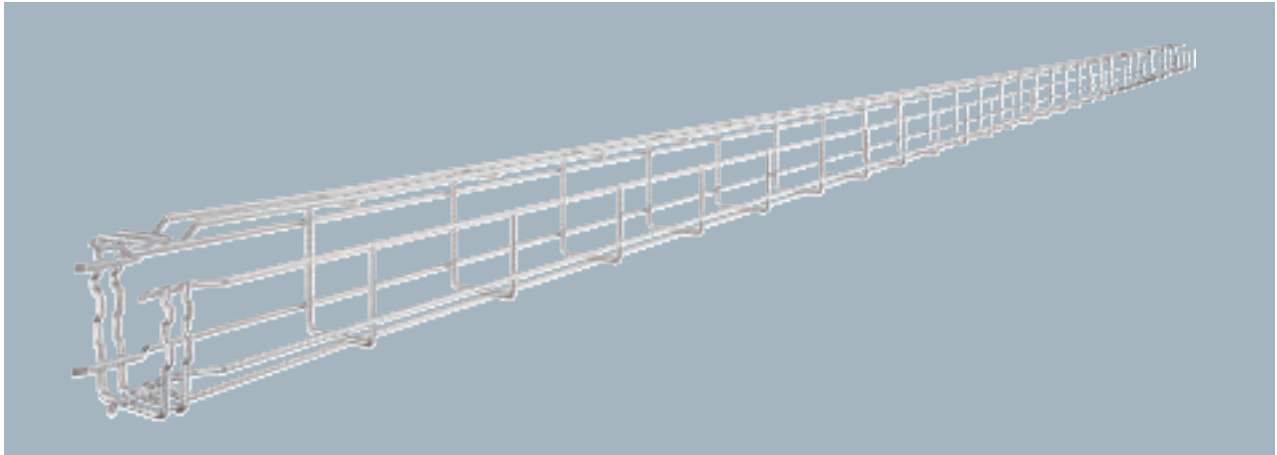
Dimensions



| G-GRM 75/50 | Support spacing [m] | Load [kN/m] | | |
|----------------------------|---------------------|-------------|------|-----|
| | | 1 | 2 | 2.5 |
| Fastening variant | 1 | 1.5 | 2 | 2.5 |
| 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

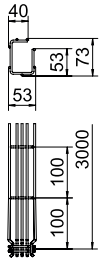


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

| Type | Side height mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|----------------|-------------------|--------------|-----------|--------------------|----------|
| G-GRM 75 50 A2 | 75 | 3.9 | 3 | 79.467 | 6005553 |

Dimensions



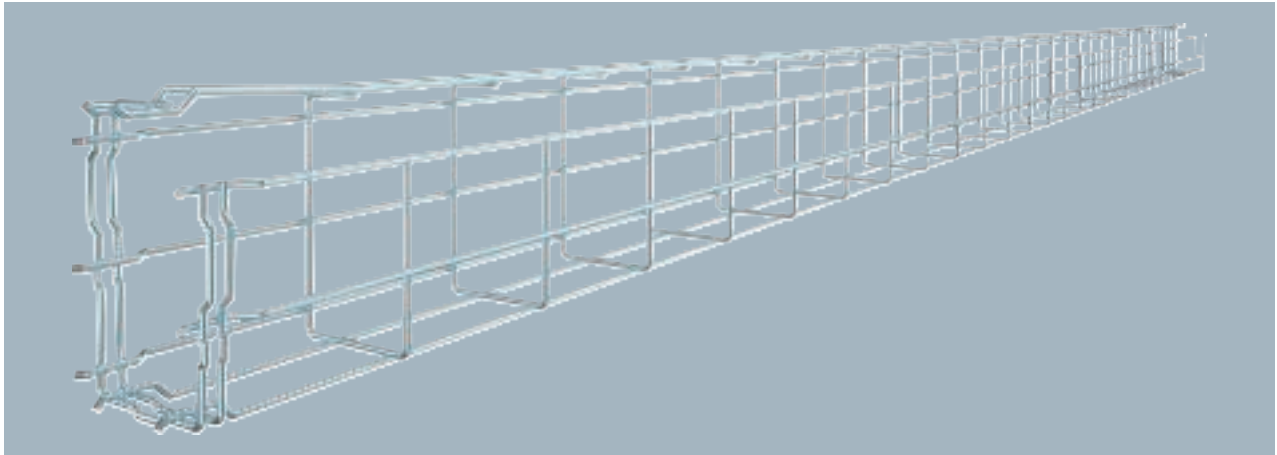
| Type | Length mm | Dim. B mm | Dim. H mm | Dim. C mm | Dim. A mm |
|----------------|--------------|--------------|--------------|--------------|--------------|
| G-GRM 75 50 A2 | 3000 | 53 | 73 | 38 | 53 |

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



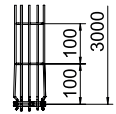
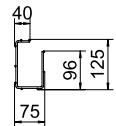
| Type | Side height mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|----------------|----------------|-----------|--------|-----------------|----------|
| G-GRM 125 75 G | 125 | 3.9 | 3 | 108.000 | 6005541 |

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

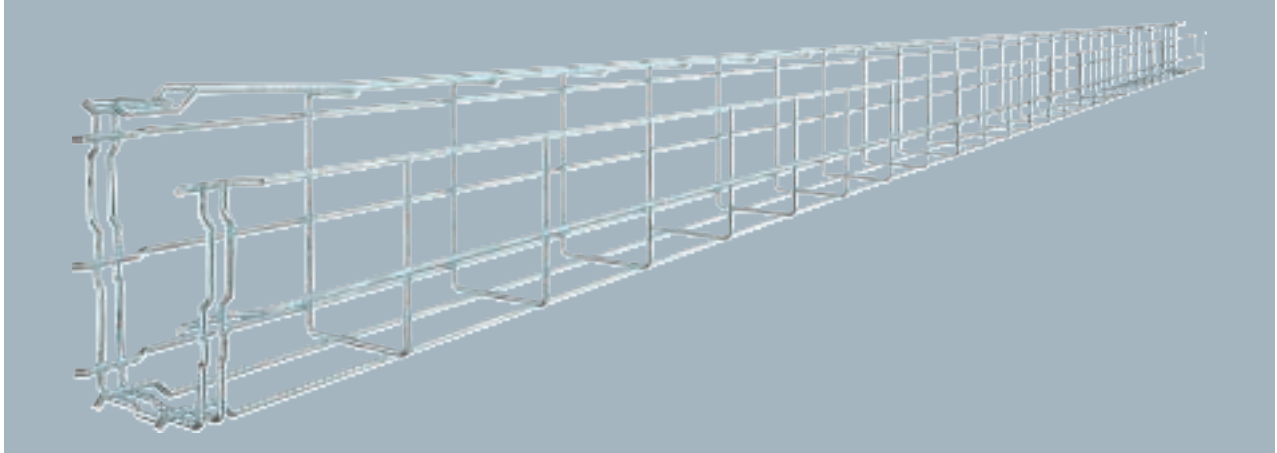


| G-GRM 125/75 | Support spacing [m] | Load [kN/m] | | |
|----------------------------|---------------------|-------------|-----|------|
| | | 1 | 2 | 2.5 |
| Fastening variant | 1 | 1.5 | 2 | 2.5 |
| Bracket MWAG 12-11 | 0.6 | 0.35 | 0.3 | 0.2 |
| Wall fastening K12 1818 | 0.25 | 0.25 | 0.2 | 0.15 |
| Ceiling fastening K12 1818 | 0.3 | 0.25 | 0.2 | 0.15 |

Load

St FT

G mesh cable tray Magic® 125

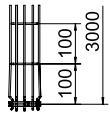
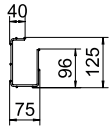


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

| Type | Side height | Wire Ø | Pack | Weight | | Item no. |
|-----------------|-------------|--------|------|---------|----------|----------|
| | mm | mm | | m | kg/100 m | |
| G-GRM 125 75 FT | 125 | 3.9 | 3 | 113.667 | 6005526 | |

Dimensions



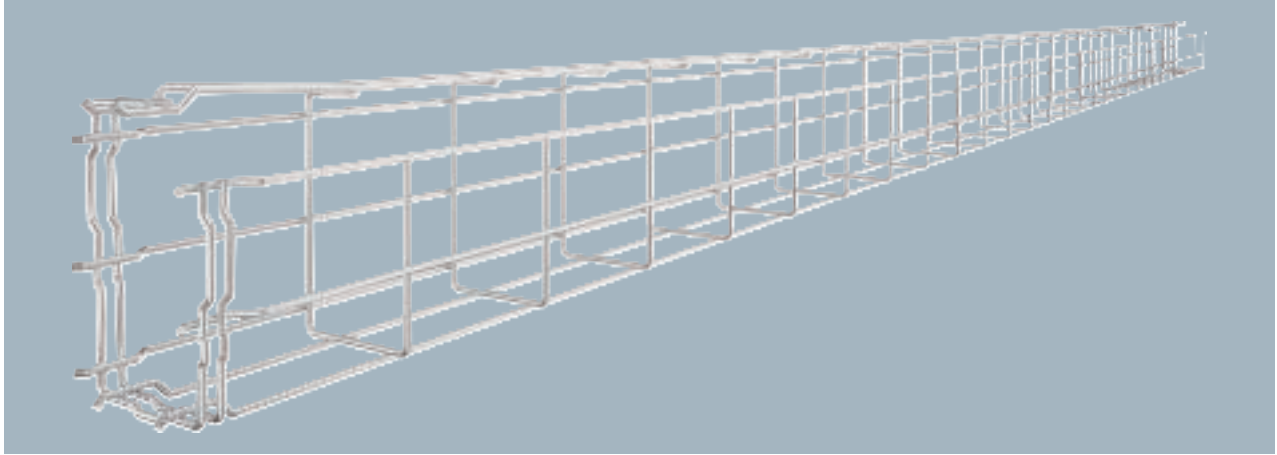
| Type | Length | Dim. B | Dim. H | Dim. C | Dim. A |
|-----------------|--------|--------|--------|--------|--------|
| | | mm | mm | mm | mm |
| G-GRM 125 75 FT | 3000 | 75 | 125 | 38 | 96 |

Load

| Fastening variant | Support spacing [m] | | | |
|----------------------------|---------------------|------|-----|------|
| | Load [kN/m] | 1.5 | 2 | 2.5 |
| Bracket MWAG 12-11 | 0.6 | 0.35 | 0.3 | 0.2 |
| Wall fastening K12 1818 | 0.25 | 0.25 | 0.2 | 0.15 |
| Ceiling fastening K12 1818 | 0.3 | 0.25 | 0.2 | 0.15 |



G mesh cable tray Magic® 125



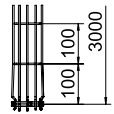
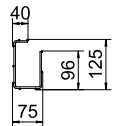
| Type | Side height mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|-----------------|----------------|-----------|--------|-----------------|----------|
| G-GRM 125 75 A2 | 125 | 3.9 | 3 | 108.000 | 6005556 |

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 |

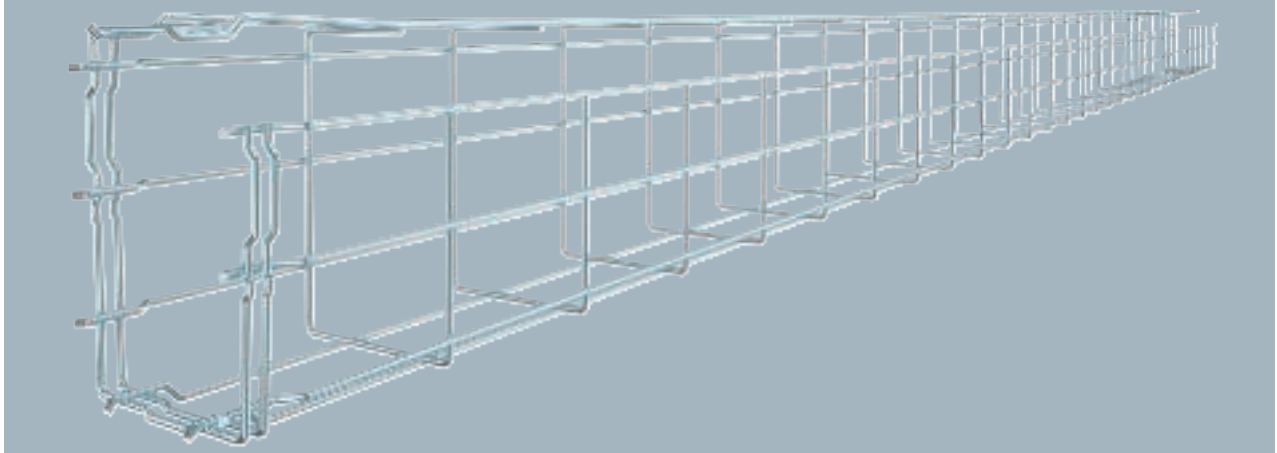
Dimensions



| G-GRM 125/75 | Support spacing [m] | Load [kN/m] | | |
|----------------------------|---------------------|-------------|-----|------|
| | | 1 | 2 | 2.5 |
| Fastening variant | 1 | 1.5 | 2 | 2.5 |
| Bracket MWAG 12-11 | 0.6 | 0.35 | 0.3 | 0.2 |
| Wall fastening K12 1818 | 0.25 | 0.25 | 0.2 | 0.15 |
| Ceiling fastening K12 1818 | 0.3 | 0.25 | 0.2 | 0.15 |

Load

G mesh cable tray Magic® 150

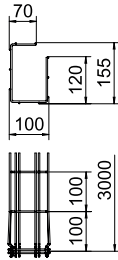


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

| Type | Side height mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|-----------------|----------------|-----------|--------|-----------------|----------|
| G-GRM 150 100 G | 150 | 3.9 | 3 | 127.333 | 6005544 |

Dimensions



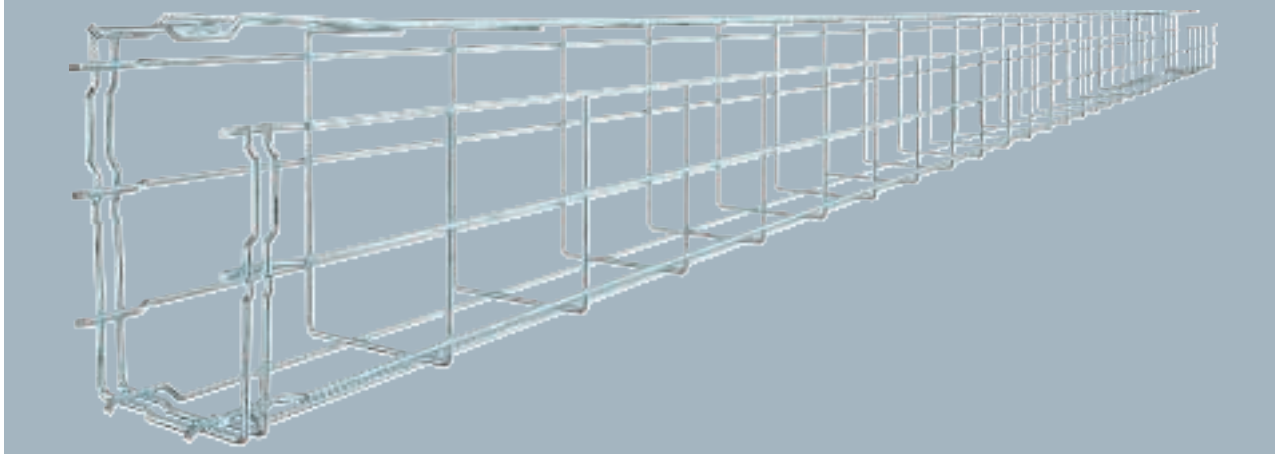
| Type | Length mm | Dim. B mm | Dim. H mm | Dim. C mm | Dim. A mm |
|-----------------|-----------|-----------|-----------|-----------|-----------|
| G-GRM 150 100 G | 3000 | 100 | 155 | 68 | 120 |

Load

| Fastening variant | Support spacing [m] | | | |
|----------------------------|---------------------|------|------|-----|
| | Load [kN/m] | | | |
| Bracket MWAG 12-11 | 0.6 | 1.5 | 2 | 2.5 |
| Wall fastening K12 1818 | 0.25 | 0.2 | 0.15 | 0.1 |
| Ceiling fastening K12 1818 | 0.25 | 0.25 | 0.15 | 0.1 |



G mesh cable tray Magic® 150



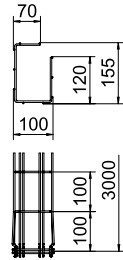
| Type | Side height mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|------------------|----------------|-----------|--------|-----------------|----------|
| G-GRM 150 100 FT | 150 | 3.9 | 3 | 134.033 | 6005529 |

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 FT | 3000 | 100 | 155 | 68 | 120 |

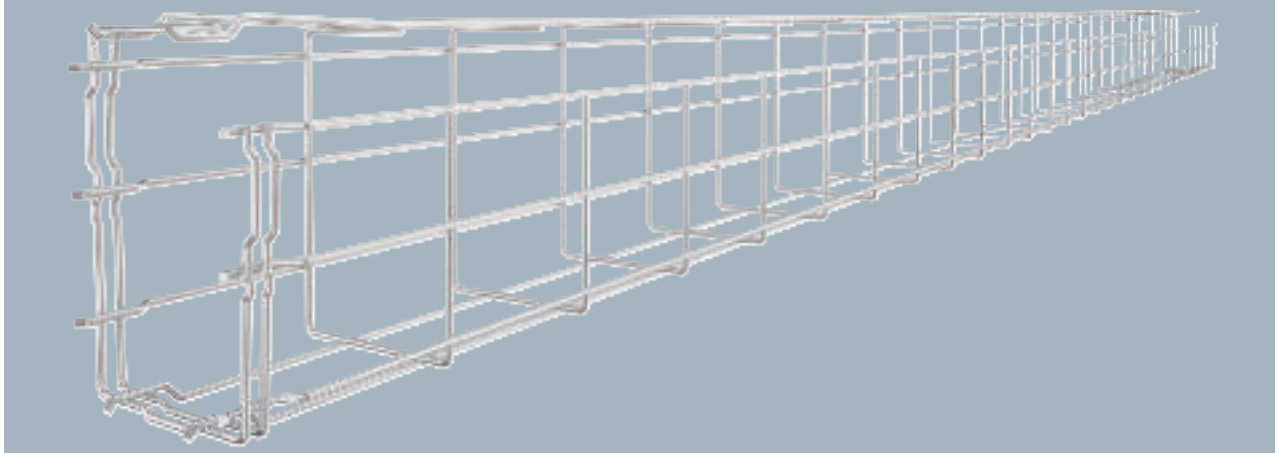
Dimensions



| 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

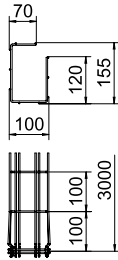


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

| Type | Side height mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|------------------|-------------------|--------------|-----------|--------------------|----------|
| G-GRM 150 100 A2 | 150 | 3.9 | 3 | 127.067 | 6005559 |

Dimensions

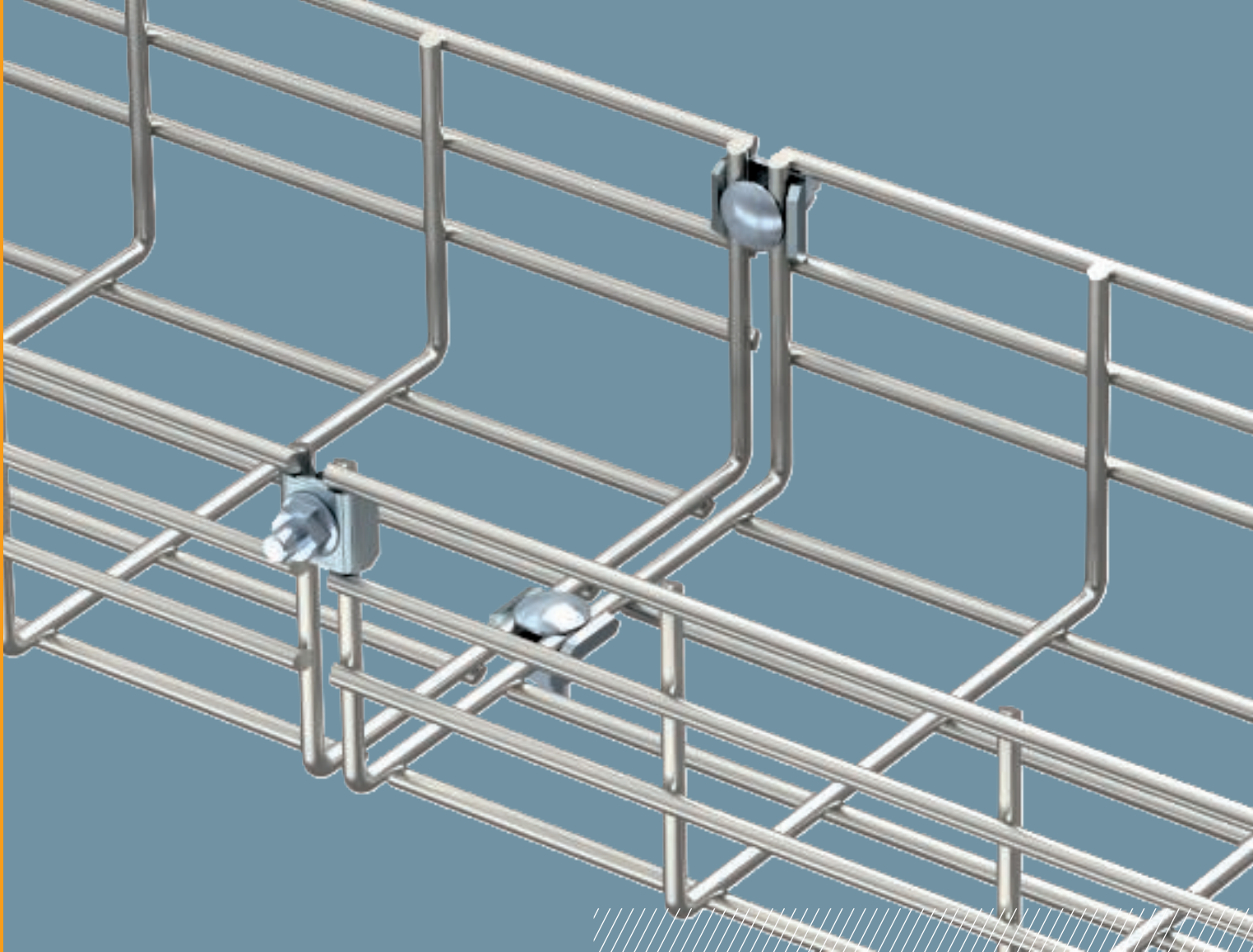


| Type | Length mm | Dim. B mm | Dim. H mm | Dim. C mm | Dim. A mm |
|------------------|--------------|--------------|--------------|--------------|--------------|
| G-GRM 150 100 A2 | 3000 | 100 | 155 | 68 | 120 |

Load

| G-GRM 150/100 | Support spacing [m] | | | |
|----------------------------|---------------------|------|------|-----|
| | Load [kN/m] | | | |
| Fastening variant | 1 | 1.5 | 2 | 2.5 |
| Bracket MWAG 12-11 | 0.6 | 0.5 | 0.35 | 0.3 |
| Wall fastening K12 1818 | 0.25 | 0.2 | 0.15 | 0.1 |
| Ceiling fastening K12 1818 | 0.25 | 0.25 | 0.15 | 0.1 |

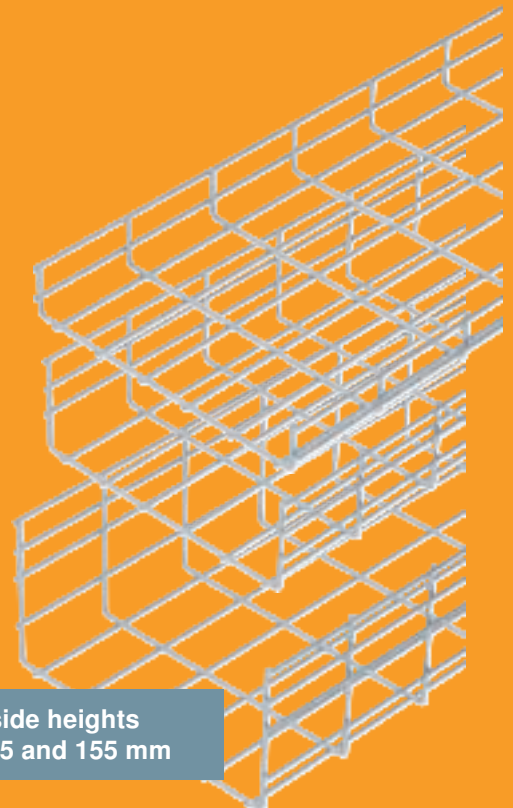




Heavy-duty SGR mesh cable tray made of 6 mm wire

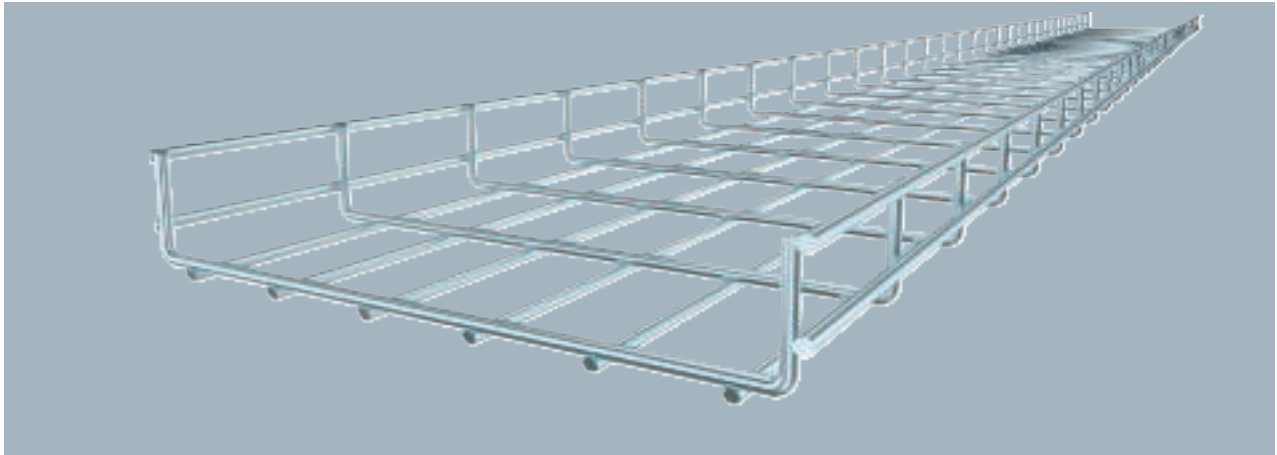
Today, due to the wide range of applications, the requirements for mesh cable trays differ a great deal. Besides simple mounting, a high load capacity, dirt-repelling qualities, good ventilation behaviour and high-quality surface refinement are particularly in demand.

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

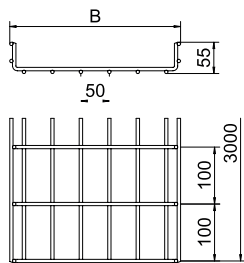
Heavy-duty cable tray SGR 55



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.

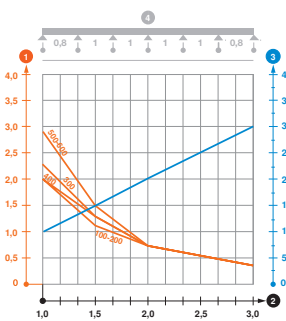
| Type | Wire | | Pack m | Weight kg/100 m | Item no. |
|--------------|----------|------|--------|-----------------|----------|
| | Width mm | Ø mm | | | |
| SGR 55 100 G | 100 | 6 | 3 | 166.333 | 6005470 |
| SGR 55 150 G | 150 | 6 | 3 | 199.000 | 6005472 |
| SGR 55 200 G | 200 | 6 | 3 | 230.067 | 6005474 |
| 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 |

Dimensions



| 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 |

Load

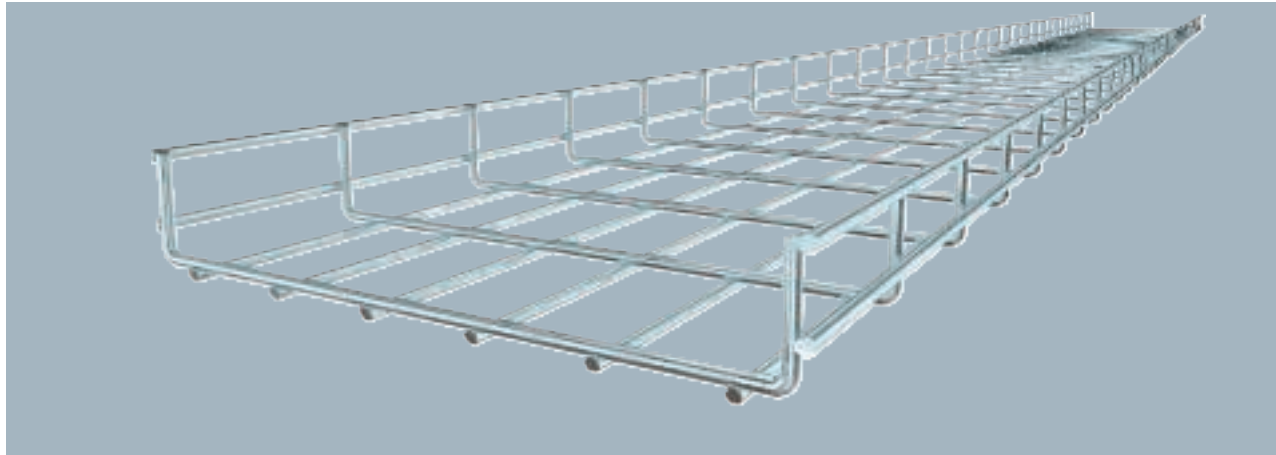


| | 1.0 m 1.5 m 2.0 m 3.0 m | | | |
|--------------|-------------------------|------|------|------|
| | kN/m | kN/m | kN/m | kN/m |
| SGR 55 100 G | 2 | 1.15 | 0.75 | 0.4 |
| SGR 55 150 G | 2 | 1.15 | 0.75 | 0.4 |
| SGR 55 200 G | 2 | 1.15 | 0.75 | 0.4 |
| SGR 55 300 G | 2 | 1.3 | 0.75 | 0.4 |
| SGR 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 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

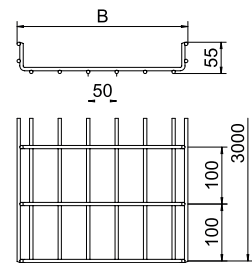


| Type | Wire | | Pack m | Weight kg/100 m | Item no. |
|---------------|-------------|---------|-----------|--------------------|----------|
| | Width mm | Ø mm | | | |
| SGR 55 100 FT | 100 | 6 | 3 | 171.667 | 6000122 |
| SGR 55 150 FT | 150 | 6 | 3 | 205.333 | 6000190 |
| SGR 55 200 FT | 200 | 6 | 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 |

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.

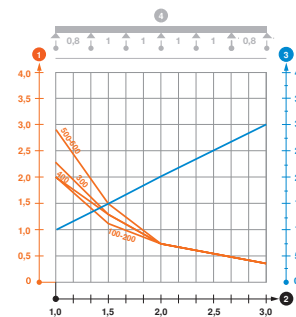
| Type | Length mm | Dim. B mm | Usable cross- section cm ² |
|---------------|--------------|-----------------|--|
| | | | |
| SGR 55 150 FT | 3000 | 150 | 63 |
| SGR 55 200 FT | 3000 | 200 | 87 |
| SGR 55 300 FT | 3000 | 300 | 129 |
| SGR 55 400 FT | 3000 | 400 | 175 |
| SGR 55 500 FT | 3000 | 500 | 220 |
| SGR 55 600 FT | 3000 | 600 | 265 |

Dimensions



| | | 1.0 m | 1.5 m | 2.0 m | 3.0 m |
|---------------|-----|-------|-------|-------|-------|
| | | kN/m | kN/m | kN/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 | |

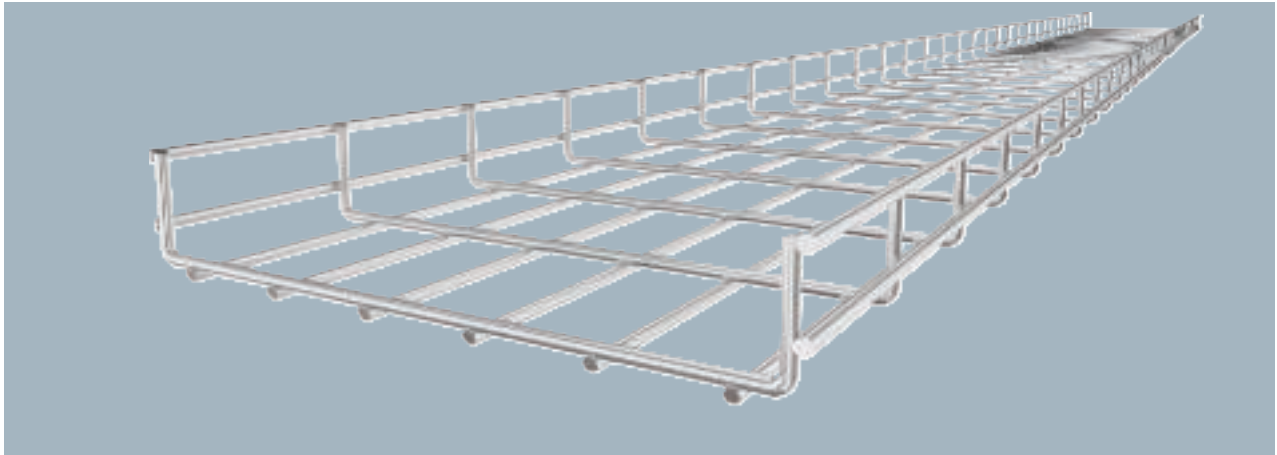
Load



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

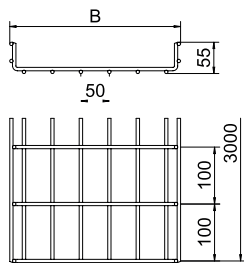
Heavy-duty cable tray SGR 55



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.

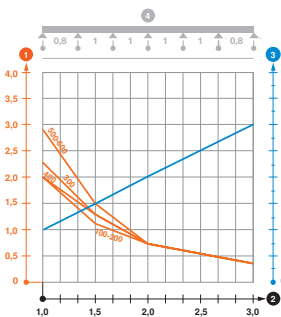
| Type | Wire | | Pack m | Weight kg/100 m | Item no. |
|---------------|----------|------|--------|-----------------|----------|
| | Width mm | Ø mm | | | |
| SGR 55 100 A2 | 100 | 6 | 3 | 166.000 | 6000909 |
| SGR 55 150 A2 | 150 | 6 | 3 | 198.000 | 6000913 |
| SGR 55 200 A2 | 200 | 6 | 3 | 231.333 | 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 55 150 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 1.5 m 2.0 m 3.0 m | | | |
|---------------|-------------------------|------|------|------|
| | kN/m | kN/m | kN/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

Heavy-duty cable tray SGR 105

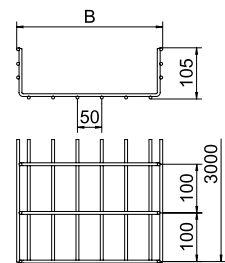


| Type | Wire | | Pack m | Weight kg/100 m | Item no. |
|----------------|-------------|---------|-----------|--------------------|----------|
| | Width mm | Ø mm | | | |
| SGR 105 150 FT | 150 | 6 | 3 | 272.333 | 6003175 |
| SGR 105 200 FT | 200 | 6 | 3 | 305.667 | 6003214 |
| SGR 105 300 FT | 300 | 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 |

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.

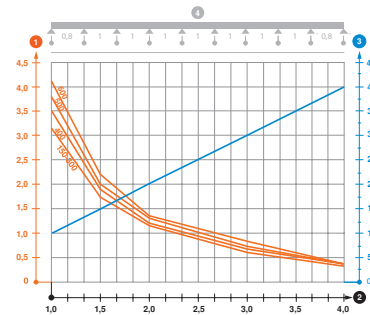
| Type | Length mm | B mm | Usable |
|----------------|--------------|---------|---------------------------------------|
| | | | Dim. cross-section cm ² |
| SGR 105 150 FT | 3000 | 150 | 130 |
| SGR 105 200 FT | 3000 | 200 | 175 |
| SGR 105 300 FT | 3000 | 300 | 268 |
| SGR 105 400 FT | 3000 | 400 | 363 |
| SGR 105 500 FT | 3000 | 500 | 459 |
| SGR 105 600 FT | 3000 | 600 | 554 |

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 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 |

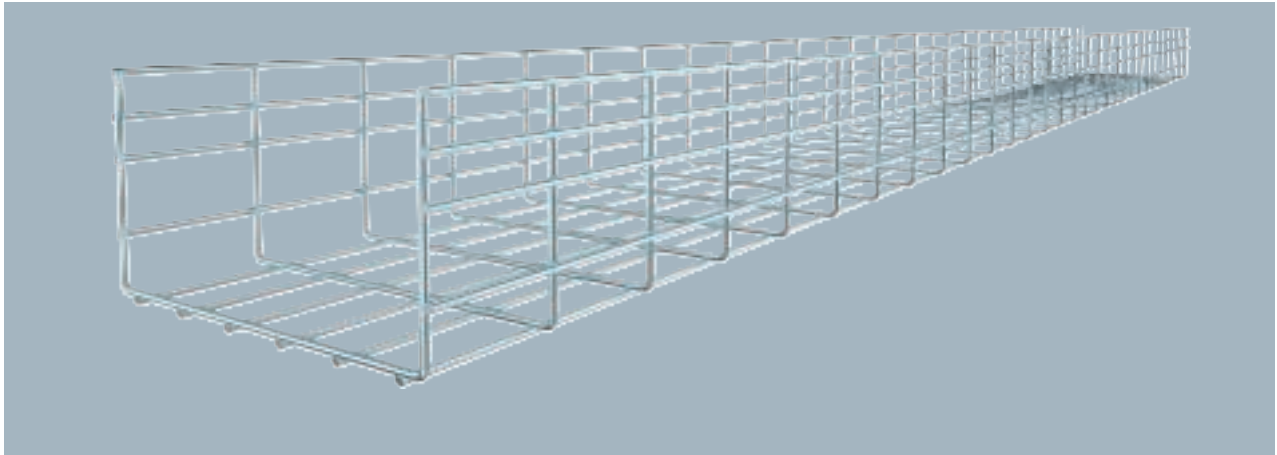
Load



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

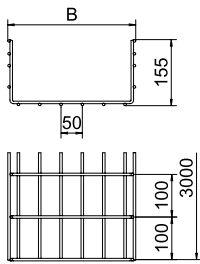
Heavy-duty cable tray SGR 155



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.

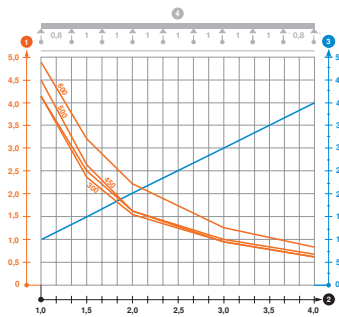
| Type | Wire | | Pack Weight m kg/100 m | Item no. |
|----------------------|-------------|---------|---------------------------|----------------|
| | Width mm | Ø mm | | |
| SGR 155 300 G | 300 | 6 | 3 426.333 | 6003681 |
| SGR 155 450 G | 450 | 6 | 3 524.667 | 6003684 |
| SGR 155 500 G | 500 | 6 | 3 557.333 | 6003685 |
| SGR 155 600 G | 600 | 6 | 3 622.333 | 6003687 |

Dimensions



| Type | Length mm | Dim. B mm | Usable |
|---------------|--------------|--------------|---------------------------------------|
| | | | Dim. cross-section 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 |

Load



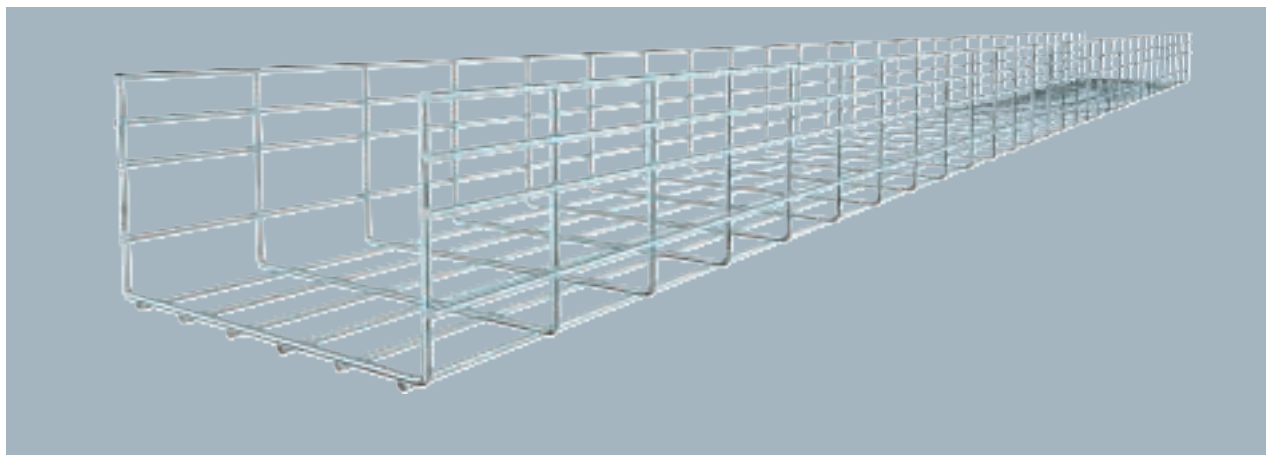
| Type | 1.0 m | 1.5 m | 2.0 m | 3.0 m | 4.0 m |
|----------------------|-------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/m | kN/m | kN/m |
| SGR 155 300 G | 4.1 | 2.4 | 1.55 | 0.95 | 0.6 |
| SGR 155 450 G | 4.1 | 2.5 | 1.6 | 0.95 | 0.6 |
| SGR 155 500 G | 4.5 | 2.6 | 1.6 | 1 | 0.65 |
| SGR 155 600 G | 4.9 | 3.2 | 2.2 | 1.25 | 0.8 |

Load 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

Heavy-duty cable tray SGR 155

Mesh cable trays

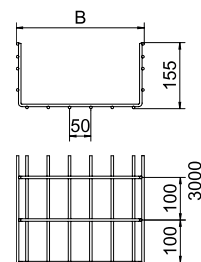


| Type | Wire | | Pack m | Weight kg/100 m | Item no. |
|----------------|-------------|---------|-----------|--------------------|----------|
| | Width mm | Ø mm | | | |
| SGR 155 300 FT | 300 | 6 | 3 | 439.667 | 6003692 |
| SGR 155 450 FT | 450 | 6 | 3 | 541.000 | 6003695 |
| SGR 155 500 FT | 500 | 6 | 3 | 574.667 | 6003696 |
| SGR 155 600 FT | 600 | 6 | 3 | 641.667 | 6003698 |

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.

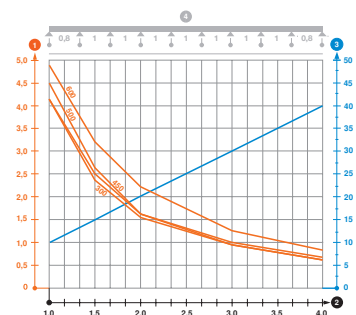
| Type | Length mm | Usable | |
|----------------|--------------|--------------|----------------------------------|
| | | Dim. B mm | cross-section cm ² |
| SGR 155 300 FT | 3000 | 300 | 438 |
| SGR 155 450 FT | 3000 | 450 | 663 |
| SGR 155 500 FT | 3000 | 500 | 738 |
| SGR 155 600 FT | 3000 | 600 | 888 |

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 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



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



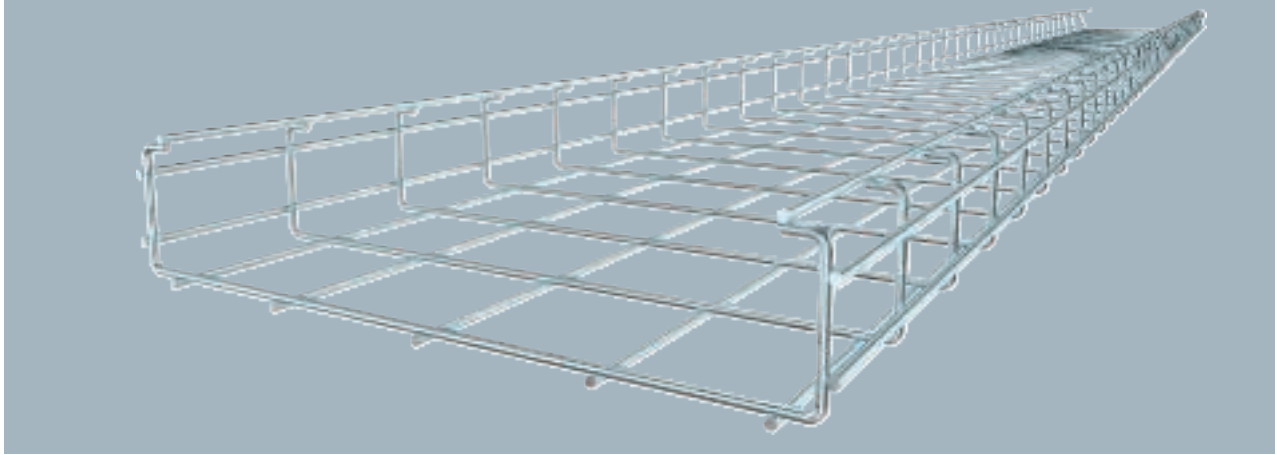
C mesh cable tray

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 con-

nectors, 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.



C mesh cable tray CGR 50

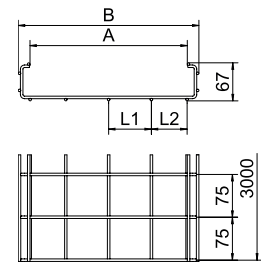


| Type | Side height mm | Wire Ø mm | Pack m | Weight kg/100 m | Item no. |
|---------------|----------------|-----------|--------|-----------------|----------|
| CGR 50 50 FT | 50 | 4.5 | 3 | 128.667 | 6017428 |
| CGR 50 100 FT | 50 | 4.5 | 3 | 139.100 | 6017436 |
| CGR 50 200 FT | 50 | 4.5 | 3 | 177.134 | 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.

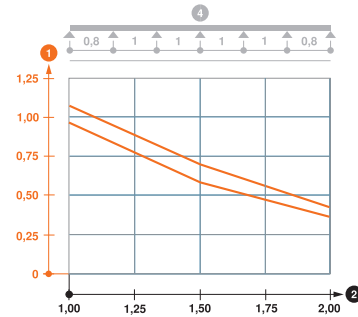
| Type | Length mm | Dim. A mm | Dim. B mm | Usable cross-section cm ² |
|---------------|-----------|-----------|-----------|--------------------------------------|
| CGR 50 50 FT | 3000 | 26 | 67 | 13 |
| CGR 50 100 FT | 3000 | 76 | 117 | 34 |
| CGR 50 200 FT | 3000 | 176 | 217 | 75 |
| CGR 50 300 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



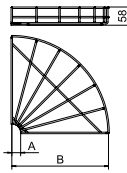
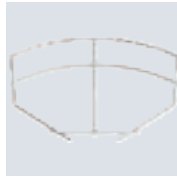
Load diagram, C mesh cable tray, type CGR 50

- 1 Permitted cable tray/ladder load in kN/m without man load
- 2 Support width in m
- 4 Load scheme during testing
- Load curve with cable tray/ladder width in mm



90° mesh cable tray bend, 55

St G

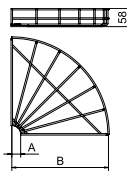
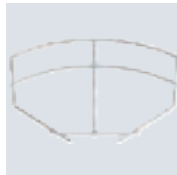


| Type | Width mm | Wire | | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|-------------|------|---|---------------|----------------------|----------|
| | | mm | Ø | | | |
| GRB 90 510 G | 100 | 3.9 | | 1 | 6.997 | 6001920 |
| GRB 90 515 G | 150 | 3.9 | | 1 | 14.400 | 6001998 |
| GRB 90 520 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.

90° mesh cable tray bend, 55

St FT

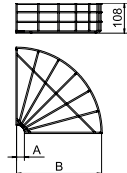
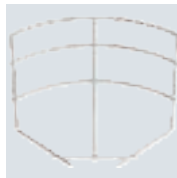


| Type | Width mm | Wire | | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|-------------|------|---|---------------|----------------------|----------|
| | | mm | Ø | | | |
| GRB 90 510 FT | 100 | 3.9 | | 1 | 7.400 | 6002218 |
| GRB 90 515 FT | 150 | 3.9 | | 1 | 15.100 | 6002222 |
| GRB 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 |

90° bend, horizontal, for all mesh cable trays of 55 mm side height.

90° mesh cable tray bend, 105

St G

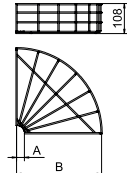


| Type | Width mm | Dim. A mm | Dim. B mm | Dim. H mm | Wire Ø mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|-------------|-----------------|-----------------|-----------------|-----------------|---------------|----------------------|----------|
| | | | | | | | | |
| GRB 90 115 G | 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 90 150 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.

90° mesh cable tray bend, 105

St FT



| Type | Width mm | Dim. A mm | Dim. B mm | Dim. H mm | Wire Ø mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|-------------|-----------------|-----------------|-----------------|-----------------|---------------|----------------------|----------|
| | | | | | | | | |
| GRB 90 115 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 |

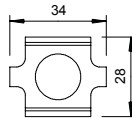
90° bend, horizontal, for all mesh cable trays of 105 mm side height.





Joint connector GSV 34

St G



Type

GSV 34 G

| Pack Piece | Weight kg/100 pc. | Item no. |
|------------|-------------------|----------|
| 20 | 3.155 | 6016596 |

Screwed version of joint connector for mesh cable trays.

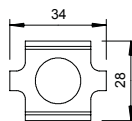
Figure: Positioning and quantity of mesh cable tray connectors.

- 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

GSV 34 FT

| Pack Piece | Weight kg/100 pc. | Item no. |
|------------|-------------------|----------|
| 20 | 3.150 | 6016634 |

Screwed version of joint connector for mesh cable trays.

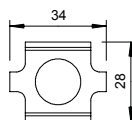
Figure: Positioning and quantity of mesh cable tray connectors.

- 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

VA VA 2B



Type

GSV 34 A2

GSV 34 A4

| Pack Piece | Weight kg/100 pc. | Item no. |
|------------|-------------------|----------|
| 20 | 2.572 | 6016642 |
| 20 | 3.000 | 6016648 |

Screwed version of joint connector for mesh cable trays.

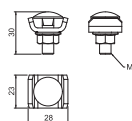
Figure: Positioning and quantity of mesh cable tray connectors.

- 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

GUV 6 FT

| Pack Piece | Weight kg/100 pc. | Item no. |
|------------|-------------------|----------|
| 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.

VA 2B

GUV 6 joint connector

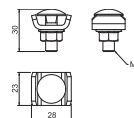
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------------|------------|-------------------|----------------|
| GUV 6 A2 | 20 | 4.154 | 6016574 |

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

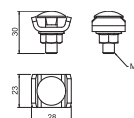
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|------------|-------------------|----------------|
| GUV 6 G | 20 | 3.945 | 6016572 |

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.



St FS DD

GRV 245 mesh cable tray connector, long

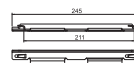
| Type | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------------|----------|------------|-------------------|----------------|
| GRV 245 FS | 30 | 20 | 13.500 | 6016680 |
| GRV 245 DD | 30 | 20 | 13.500 | 6016684 |

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.

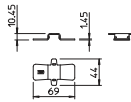
Including screw of type FRS M6 x 20.



Joint connector

GRS quick connector

St DD



Type

| 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.

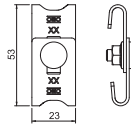
Figure: Positioning and quantity of mesh cable tray connectors.
50–150 mm = 2 units

When selecting the connector, please take the appropriate wire thickness of the mesh cable tray into account.

Corner connector

GEV 36 corner connector

St G



Type

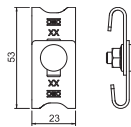
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|------------|-------------------|----------|
| GEV 36 G | 20 | 3.040 | 6016715 |

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

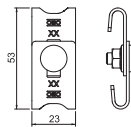
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------|-------------------|----------|
| GEV 36 FT | 20 | 3.160 | 6016723 |

Including FRS M6 x 12 bolt with flange nut.

Corner connector for the creation of mesh cable tray bend elements.

GEV 36 corner connector

VA VA 2B



Type

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------|-------------------|----------|
| GEV 36 A2 | 20 | 3.040 | 6016731 |
| GEV 36 A4 | 10 | 3.040 | 6016764 |

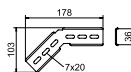
Including FRS M6 x 12 bolt with flange nut.

Corner connector for the creation of mesh cable tray bend elements.

Mounting bracket

45° mounting angle MW 45 SL10

VA 2B



Type

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|------------|-------------------|----------|
| MW 45 SL10 A2 | 20 | 20.000 | 6017339 |

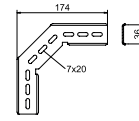
Each with two clamps of type KS 23 35.

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 SL17 FT | 20 | 27.000 | 6017347 |
| MW 90 SL23 FT | 20 | 35.400 | 6017355 |



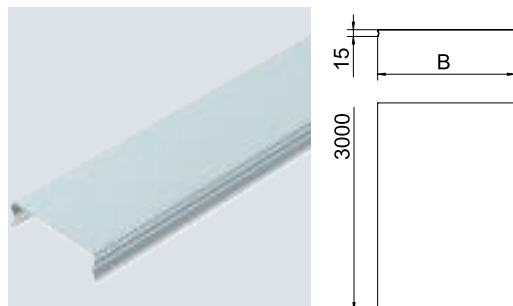
Each with two clamps of type KS 23/35.

90° installation profile, vertical, for C mesh cable tray and GR-Magic® mesh cable tray with a side height of 55 mm.



Cover for mesh cable tray, latchable

St FS



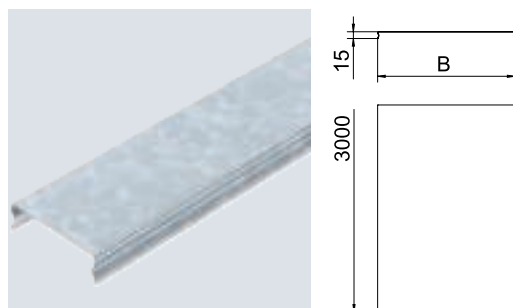
| Type | Dim. B mm | Metal thickness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|-------------|-----------|--------------------|-----------|--------|-----------------|----------|
| DGRR 50 FS | 50 | 0.75 | 3000 | 3 | 46.333 | 6001840 |
| DGRR 100 FS | 98 | 0.75 | 3000 | 3 | 73.333 | 6001842 |
| 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

St FT



| 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 |

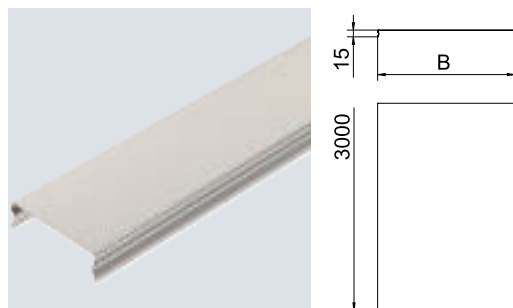
With transverse bead from 400 mm width.

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

VA 2B



| 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.

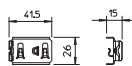
Latchable cover for mesh cable trays. Protects cables from damage, contamination and moisture from above. Suitable for the foodstuffs or chemicals industries.

When using covers outdoors, additional measures against the influence of wind may need to be taken.



Hold-down clamp for barrier strip fastening in GRM

VA 2B

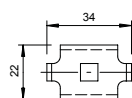


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|------------|-------------------|----------|
| KS GR A2 | 30 | 0.830 | 6062282 |

Hold-down clamp for fastening barrier strips in mesh cable trays.

GKS 34 hold-down clamp

St G

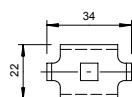


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|------------|-------------------|----------|
| GKS 34 G | 20 | 2.188 | 6016855 |

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

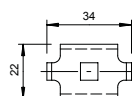


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------|-------------------|----------|
| GKS 34 FT | 20 | 2.021 | 6016820 |

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

VA VA 2B

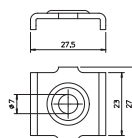


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------|-------------------|----------|
| GKS 34 A2 | 20 | 2.000 | 6016839 |
| GKS 34 A4 | 10 | 1.976 | 6016859 |

Including FRS M6 x 20 bolt with nut and washer.
Hold-down clamp for fixing mesh cable trays to wall or support brackets.

GKB 34 hold-down clamp

St G



| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|------------|-------------------|----------|
| GKB 34 G | 20 | 1.105 | 6016674 |

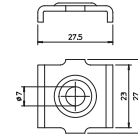
Clamp for fastening mesh cable trays of width 50 mm to the floor.

VA 2B

GKB 34 hold-down clamp

| 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.

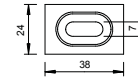


St G

GKT 38 clamping piece

| 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.

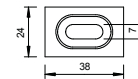


St FT

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.

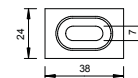


VA VA 2B

GKT 38 clamping piece

| 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.

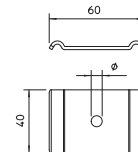


St FS FT

GKS 50 hold-down clamp

| Type | Hole Ø mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|-----------|------------|-------------------|----------|
| GKS 50 07 FS | 7 | 50 | 3.522 | 6015263 |
| GKS 50 11 FS | 11 | 50 | 4.000 | 6015276 |
| GKS 50 07 FT | 7 | 50 | 4.100 | 6015271 |
| GKS 50 11 FT | 11 | 50 | 4.100 | 6015278 |

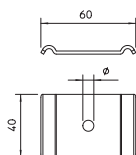
Use on mesh cable trays with 50 x 100 mm grid only.
Hold-down clamp for fastening mesh cable trays on the ground or on stand-off brackets of type DBL.



Clamping pieces

Hold-down clamp GKS 50

VA 2B

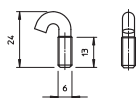
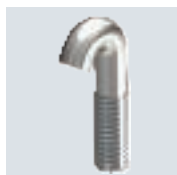


| Type | Hole Ø mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|--------------|---------------|----------------------|----------|
| GKS 50 07 A4 | 7 | 50 | 4.000 | 6015310 |
| GKS 50 11 A4 | 11 | 20 | 4.000 | 6015280 |

Use on mesh cable trays with 50 x 100 mm grid only.
Clamp for fastening mesh cable trays.

HS M6 hook screw

A2 2B

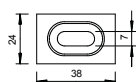
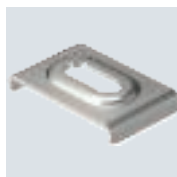


| Type | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|--------|---------------|----------------------|----------|
| HS M6x13 A2 | M6 | 100 | 0.573 | 1154990 |

Hook screw for fastening cable tracks on the bracket.

Hold-down clamp GKB 38

VA 2B



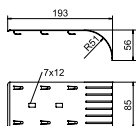
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|---------------|----------------------|----------|
| GKB 38 A2 | 20 | 1.061 | 6017018 |

Hold-down clamp for floor fastening of mesh cable trays.

Cable exit plate

Exit plate

St FS FT

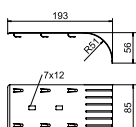


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|---------------|----------------------|----------|
| KAB GR FS | 10 | 14.100 | 6220139 |
| KAB GR FT | 10 | 14.100 | 6220142 |

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.

Exit plate

VA 2B



| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|---------------|----------------------|----------|
| KAB GR A2 | 10 | 14.100 | 6220145 |

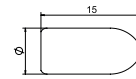
The exit plate allows compliance with specific bend radii, thus preventing possible cable breaks. Can be mounted in a lengthwise direction and at the side, can be arranged for greater widths.

PVC

End cap

| 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 |

End cap to cover cut wire ends of mesh cable trays.

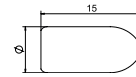


PVC

End cap

| 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.



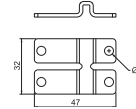
Wall and floor fastener

St FT

Wall clamp and central hanger

| 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.

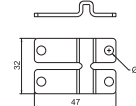


VA 2B

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.



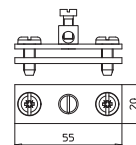
Equipotential bonding and earthing

St G

Earthing terminal for cables and flat conductors

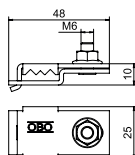
| Type | Shipping box Piece | Pack Piece | Weight kg/100 pc. | Item no. |
|------|--------------------|------------|-------------------|----------|
| 939 | 150 | 25 | 5.932 | 5043107 |

- 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



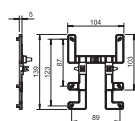
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|------------|-------------------|----------|
| VEK-GRM 3.9 FS | 25 | 3.850 | 6016694 |
| VEK-GRM 4.8 FS | 25 | 3.800 | 6016696 |

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

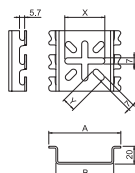


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|------------|-------------------|----------|
| BE TS GR | 10 | 2.300 | 2007833 |

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
35 55 105

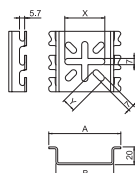


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------|-------------------|----------|
| MPG 65 FT | 30 | 9.100 | 6006486 |
| MPG 90 FT | 30 | 16.800 | 6006487 |

Mounting plate for screwless wall fastening of mesh cable trays.

Mounting plate for mesh cable tray

VA 2B



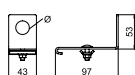
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------|-------------------|----------|
| MPG 65 A4 | 30 | 8.800 | 6006488 |
| MPG 90 A4 | 30 | 16.100 | 6006489 |

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.

Side holder

Side holder for cable gland

St FS



| 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 |

Conduit take-off bracket with punched hole for accepting cable glands.

St

Bolt cutter

| Type | Length mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------|--------------|---------------|----------------------|----------|
| GR BS | – | 1 | 85.000 | 6017698 |

Bolt cutter for cutting mesh cable trays.



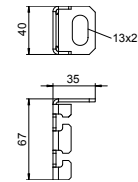
Connection component

St FT

Connection component

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|--------|---------------|----------------------|----------|
| ABG FT | 20 | 8.500 | 6015345 |

Seat for threaded rod on mesh cable tray.



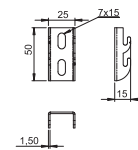
Hook rails for G mesh cable tray

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-R50 FS | 50 | 25 | 15 | 25 | 2.300 | 6005605 |

Hook rail for wall mounting of G mesh cable trays

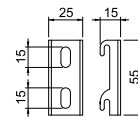


VA 2B

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

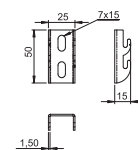


St FS

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 |

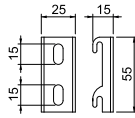
Hook rail for wall mounting of G mesh cable trays



Hook rails for G mesh cable tray

Hook rail for G mesh cable tray

VA 2B

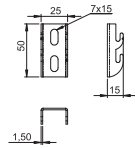


| Type | Length mm | Width mm | Side height mm | Pack | Weight | Item no. |
|---------------------|--------------|-------------|----------------------|-------|------------|----------------|
| | | | | Piece | kg/100 pc. | |
| G-GRM-R75 A2 | 55 | 25 | 15 | 25 | 2.400 | 6005637 |

Hook rail for wall mounting of G mesh cable trays

Hook rail for G mesh cable tray

St FS

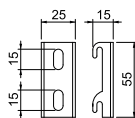


| Type | Length mm | Width mm | Side height mm | Pack | Weight | Item no. |
|----------------------|--------------|-------------|----------------------|-------|------------|----------------|
| | | | | Piece | kg/100 pc. | |
| G-GRM-R125 FS | 105 | 25 | 15 | 25 | 4.600 | 6005612 |

Hook rail for wall mounting of G mesh cable trays

Hook rail for G mesh cable tray

VA 2B

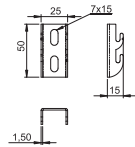


| Type | Length mm | Width mm | Side height mm | Pack | Weight | Item no. |
|----------------------|--------------|-------------|----------------------|-------|------------|----------------|
| | | | | Piece | kg/100 pc. | |
| G-GRM-R125 A2 | 105 | 25 | 15 | 25 | 4.600 | 6005642 |

Hook rail for wall mounting of G mesh cable trays

Hook rail for G mesh cable tray

St FS

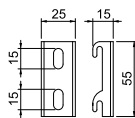


| Type | Length mm | Width mm | Side height mm | Pack | Weight | Item no. |
|----------------------|--------------|-------------|----------------------|-------|------------|----------------|
| | | | | Piece | kg/100 pc. | |
| G-GRM-R150 FS | 110 | 25 | 15 | 25 | 4.800 | 6005615 |

Hook rail for wall mounting of G mesh cable trays

Hook rail for G mesh cable tray

VA 2B



| Type | Length mm | Width mm | Side height mm | Pack | Weight | Item no. |
|----------------------|--------------|-------------|----------------------|-------|------------|----------------|
| | | | | Piece | kg/100 pc. | |
| G-GRM-R150 A2 | 110 | 25 | 15 | 25 | 4.800 | 6005645 |

Hook rail for wall mounting of G mesh cable trays

PP

Mesh cable tray adapter for roof conductor holder, type 165 MBG 8-10

| Type | Item no. |
|--------------|----------|
| 165 MBG HGRM | 5218886 |

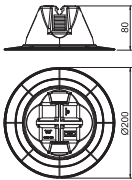


PA/PE

Roof conductor holder for flat roofs, with increased base section

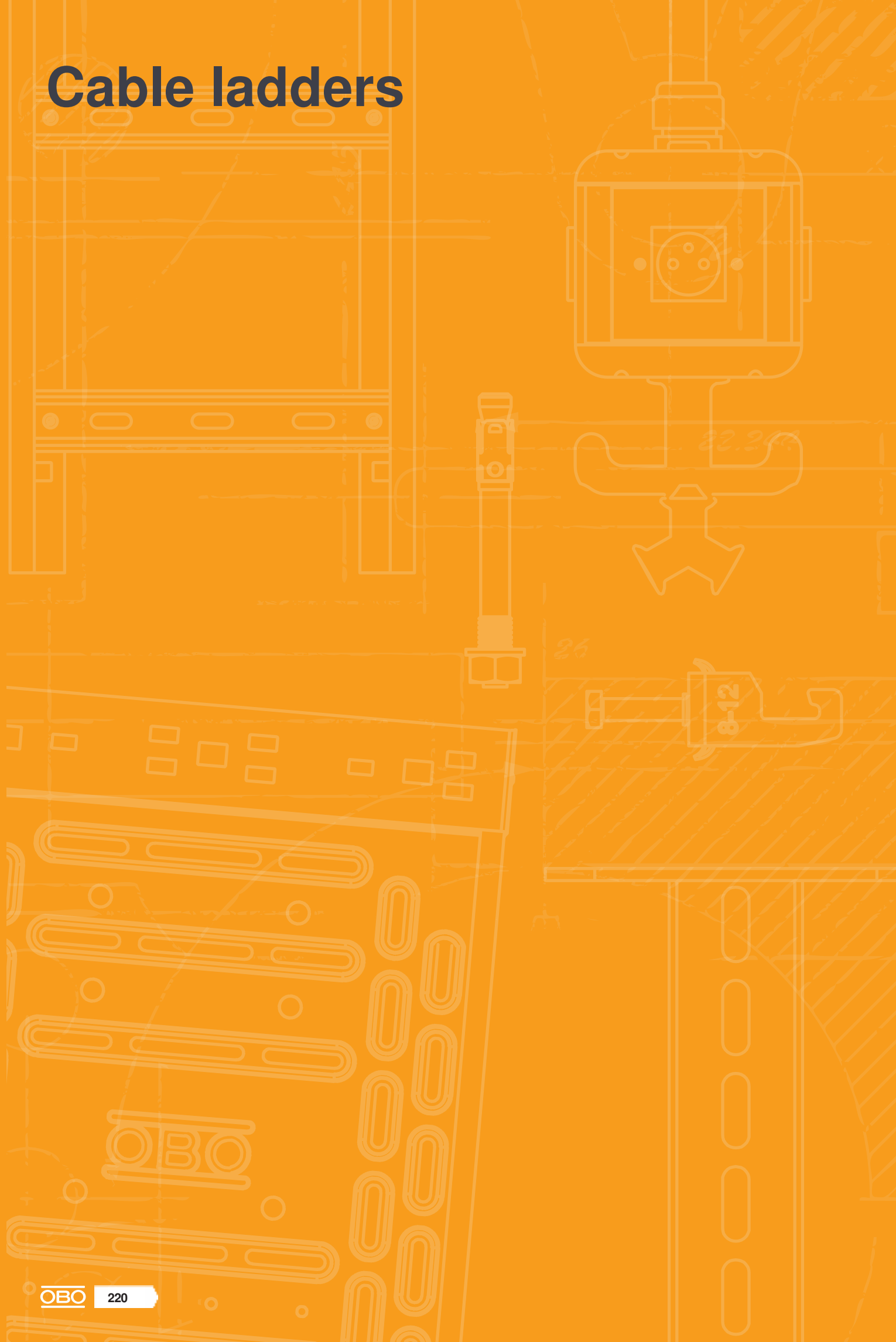
| Type | Fit mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|---------|------------|-------------------|----------|
| 165 MBG-8-10 200 | Rd 8-10 | 12 | 100.000 | 5218716 |

- DIN 48829 Form B 1
- Closed form with bottom
- With double conductor holder
- Filling weight 1 kg (frost-resistant concrete)
- Sleeve from polyethylene, black, bottom polypropylene, black
- With larger bottom section (Ø 200 mm) for improved stability

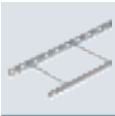









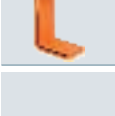



Cable ladders

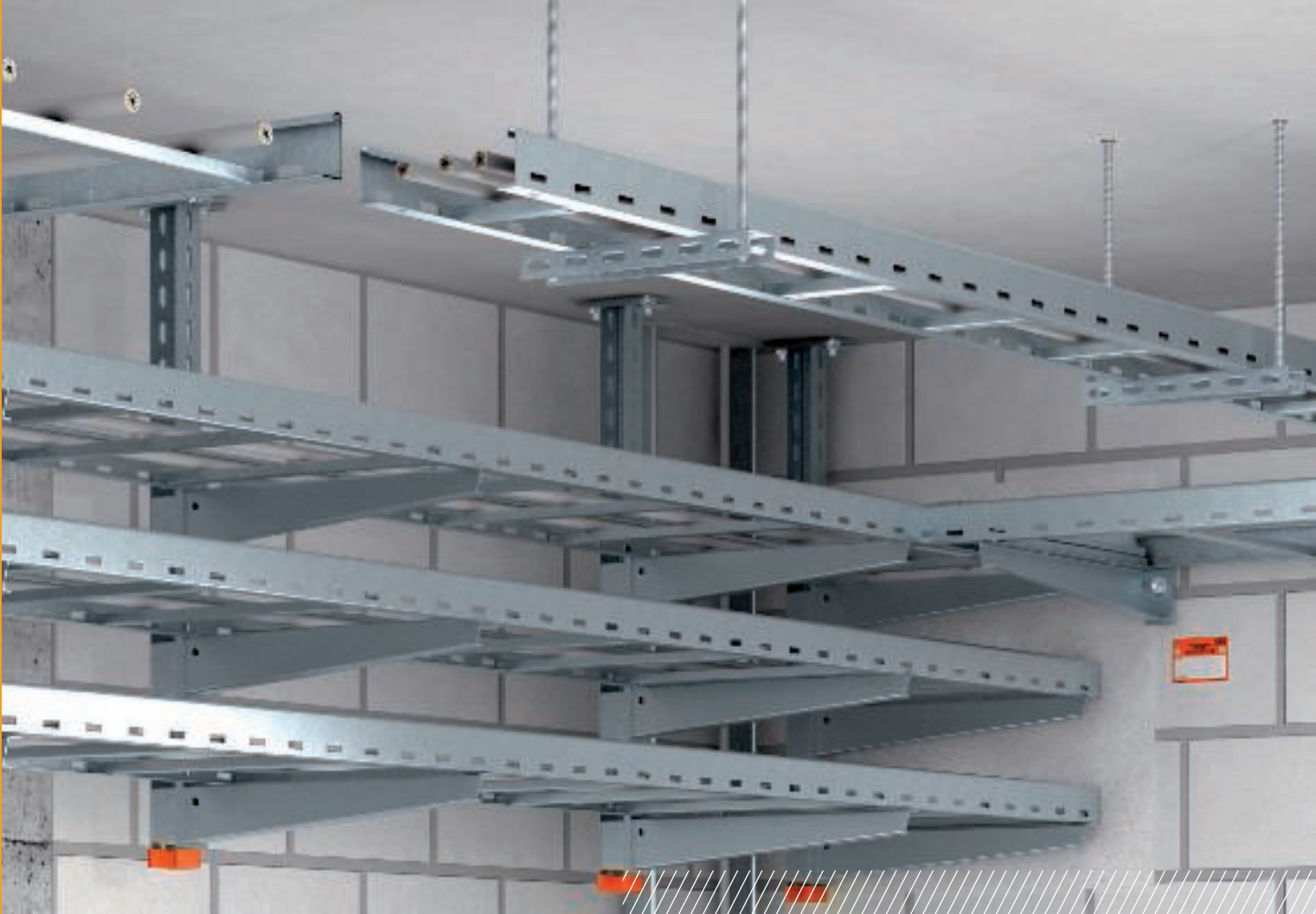
Cable ladders



Cable ladders

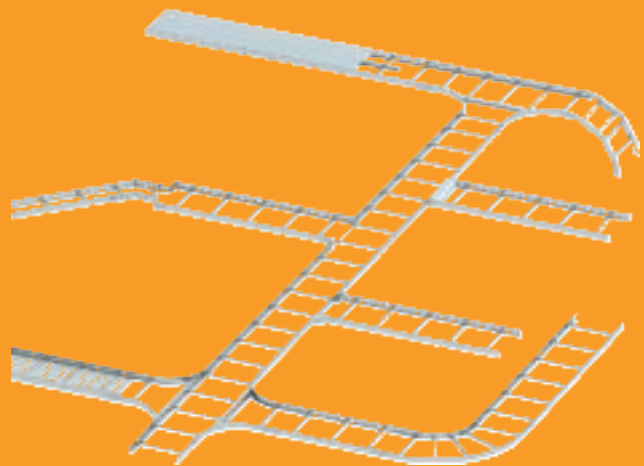
| | | |
|---|--|-----|
|  | Cable ladders, riveted | 222 |
|  | Cable ladders, welded | 236 |
|  | Wide span cable ladders | 246 |
|  | Cable ladders, marine standard | 256 |
|  | Vertical ladders | 268 |
|  | Fittings, cable ladders, welded | 274 |
|  | Fittings, wide span cable ladders | 280 |
|  | Fittings, cable ladders, marine standard | 282 |
|  | Connector | 286 |
|  | Lid | 296 |
|  | Accessories, cable ladders | 298 |
|  | Lid, fittings | 306 |





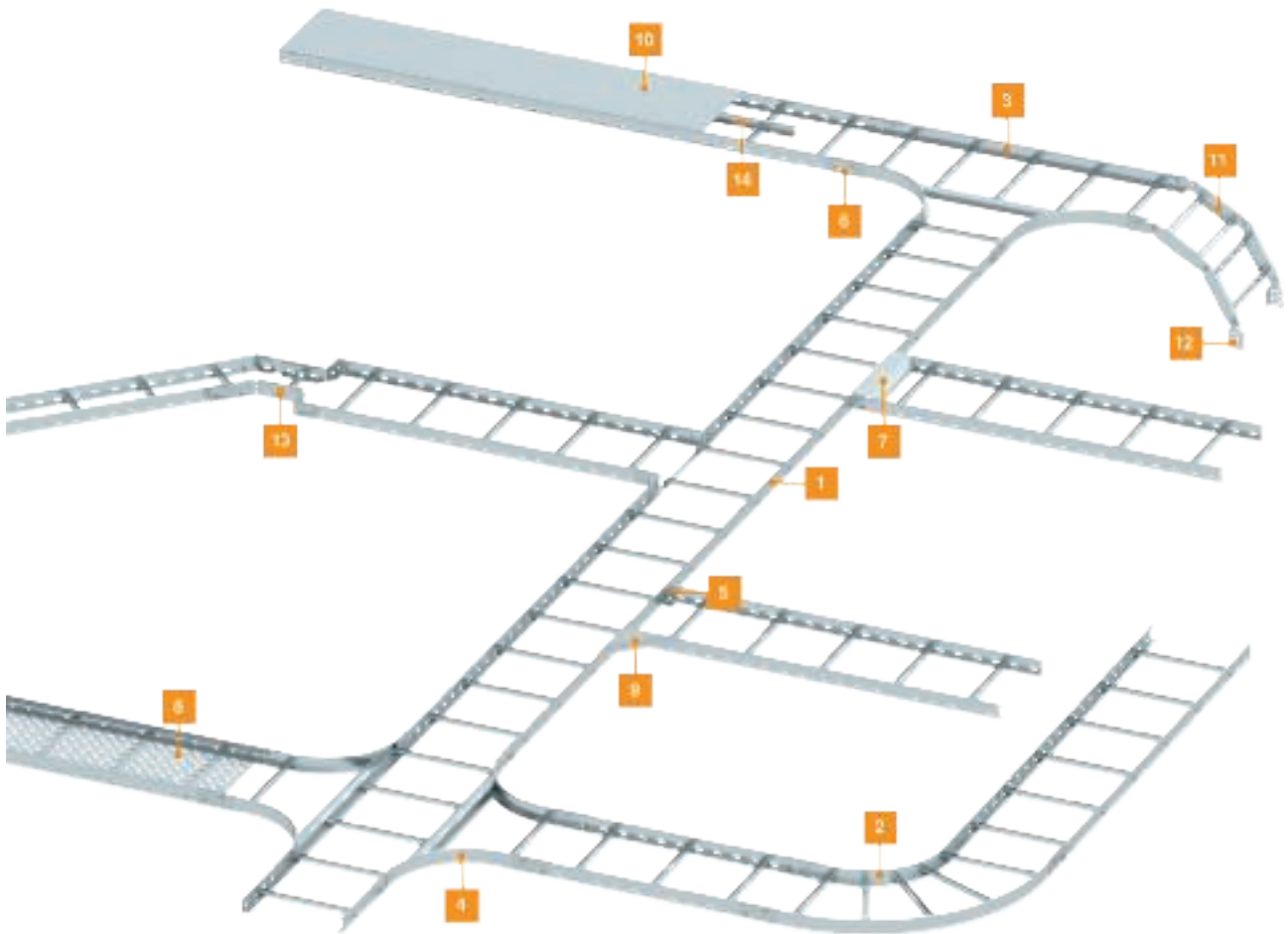
Riveted cable ladder systems

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.



Riveted cable ladder systems

Installation principle



| | | | | | |
|----|------------------------|--------|----|---------------------------|------|
| 1 | Cable ladders | LG | 11 | Adjustable bend element | LGBE |
| 2 | 90° bend, welded | LBI 90 | 12 | Adjustable connector | LGVG |
| 3 | Tee, welded | LT | 13 | Multifunctional connector | LMFV |
| 4 | Add-on tee, welded | LAA | 14 | Barrier strip | TSG |
| 5 | Connection piece | LAS | | | |
| 6 | Straight connector | LVG | | | |
| 7 | Support plate | LWVG | | | |
| 8 | Insertion plate | ELB | | | |
| 9 | Corner plate | LEB | | | |
| 10 | Cover with cover clamp | WDRL | | | |



Cable ladder LG 60, 3 m VS

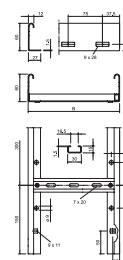


| Type | Width | | Pack | Weight | Item no. |
|----------------|-------|----|------|---------|----------|
| | mm | BS | | | |
| LG 620 VS 3 FS | 200 | | 3 | 267.000 | 6208538 |
| LG 630 VS 3 FS | 300 | | 3 | 288.933 | 6208541 |
| LG 640 VS 3 FS | 400 | | 3 | 314.600 | 6208544 |
| LG 650 VS 3 FS | 500 | | 3 | 332.600 | 6208547 |
| LG 660 VS 3 FS | 600 | | 3 | 354.266 | 6208550 |

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).

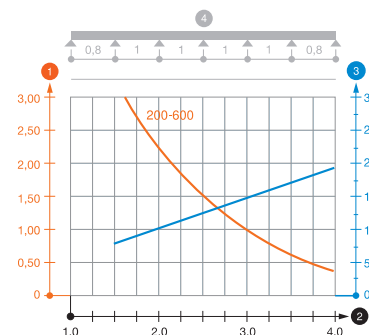
| Type | Length | Dim. B | Rail thickness | Usable cross-section | Rung spacing |
|----------------|--------|--------|----------------|----------------------|--------------|
| | mm | mm | mm | cm ² | mm |
| LG 620 VS 3 FS | 3000 | 200 | 1.5 | 98 | 300 |
| LG 630 VS 3 FS | 3000 | 300 | 1.5 | 148 | 300 |
| 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 | 2.5 m | 3.0 m | 4.0 m |
|----------------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/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 |

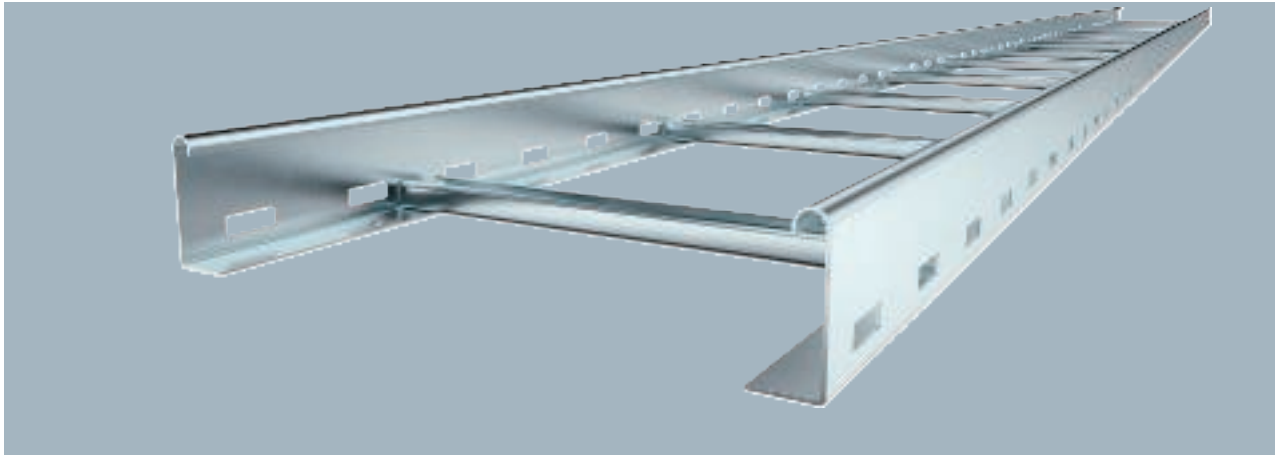
Load



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

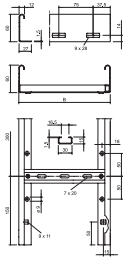
Cable ladder LG 60, 6 m VS



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).

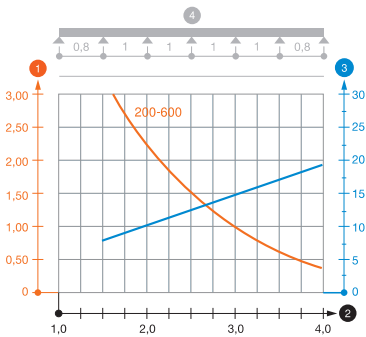
| Type | Width | | Pack m | Weight kg/100 m | Item no. |
|----------------|-------|----|--------|-----------------|----------|
| | mm | BS | | | |
| LG 620 VS 6 FS | 200 | | 6 | 267.066 | 6208627 |
| LG 630 VS 6 FS | 300 | | 6 | 288.733 | 6208630 |
| LG 640 VS 6 FS | 400 | | 6 | 314.400 | 6208633 |
| 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 thickness mm | Usable cross-section cm ² | Rung spacing mm |
|----------------|-----------|-----------|-------------------|--------------------------------------|-----------------|
| | | | | | |
| LG 630 VS 6 FS | 6000 | 300 | 1.5 | 148 | 300 |
| LG 640 VS 6 FS | 6000 | 400 | 1.5 | 198 | 300 |
| LG 650 VS 6 FS | 6000 | 500 | 1.5 | 248 | 300 |
| LG 660 VS 6 FS | 6000 | 600 | 1.5 | 298 | 300 |

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

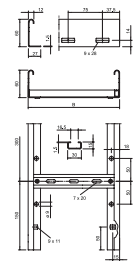


| Type | Width | | Pack | Weight | Item no. |
|----------------|-------|----|------|---------|----------|
| | mm | BS | | | |
| LG 620 VS 3 FT | 200 | | 3 | 285.066 | 6208562 |
| LG 630 VS 3 FT | 300 | | 3 | 308.000 | 6208566 |
| LG 640 VS 3 FT | 400 | | 3 | 331.000 | 6208570 |
| LG 650 VS 3 FT | 500 | | 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).

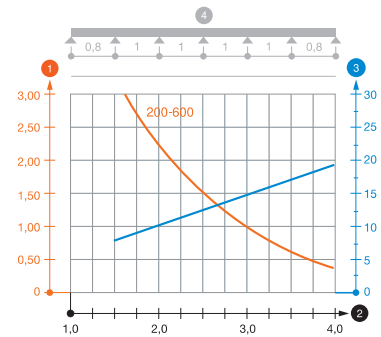
| Type | Length | Dim. B | Rail thickness | Usable cross-section | Rung spacing |
|----------------|--------|--------|----------------|----------------------|--------------|
| | mm | mm | mm | cm ² | mm |
| LG 620 VS 3 FT | 3000 | 200 | 1.5 | 98 | 300 |
| LG 630 VS 3 FT | 3000 | 300 | 1.5 | 148 | 300 |
| 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 | 2.5 m | 3.0 m | 4.0 m |
|----------------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/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 |

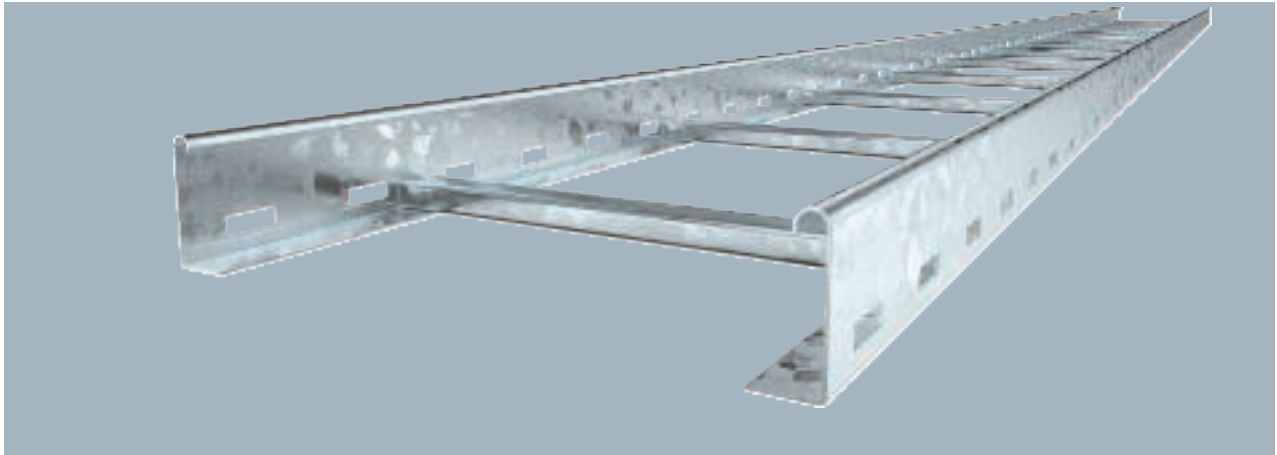
Load



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

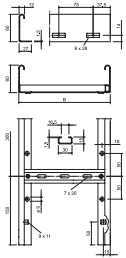
Cable ladder LG 60, 6 m VS



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).

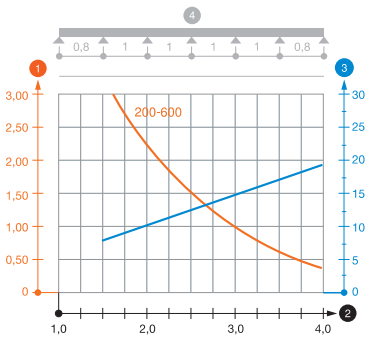
| Type | Width | | Pack m | Weight kg/100 m | Item no. |
|----------------|-------|----|--------|-----------------|----------|
| | mm | BS | | | |
| LG 620 VS 6 FT | 200 | | 6 | 284.833 | 6208650 |
| LG 630 VS 6 FT | 300 | | 6 | 307.833 | 6208653 |
| LG 640 VS 6 FT | 400 | | 6 | 330.833 | 6208656 |
| 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 thickness mm | Usable cross-section cm ² | Rung spacing mm |
|----------------|-----------|-----------|-------------------|--------------------------------------|-----------------|
| | | | | | |
| 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



| 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 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



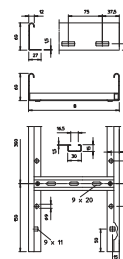
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---------------|-------------|-----------|--------------------|----------|
| LG 620 VS6 A2 | 200 | 6 | 267.067 | 6208700 |
| LG 630 VS6 A2 | 300 | 6 | 288.733 | 6208703 |
| LG 640 VS6 A2 | 400 | 6 | 314.400 | 6208706 |
| LG 650 VS6 A2 | 500 | 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).

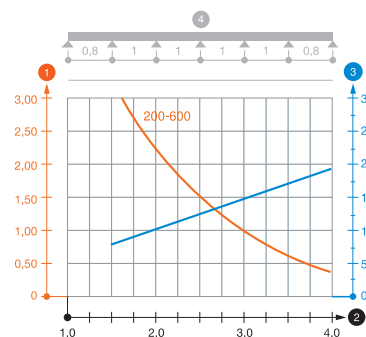
| Type | Length mm | Dim. B mm | Rail thick- ness mm | Usable cross- section cm ² | Rung spacing mm |
|---------------|--------------|-----------------|------------------------------|--|-----------------------|
| LG 620 VS6 A2 | 6000 | 200 | 1.5 | 98 | 300 |
| LG 630 VS6 A2 | 6000 | 300 | 1.5 | 148 | 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 | 2.0 m | 2.5 m | 3.0 m | 3.5 m | 4.0 m |
|---------------|-------|-------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/m | kN/m | kN/m | kN/m |
| LG 620 VS6 A2 | 3.1 | 2.25 | 1.5 | 1.1 | 0.75 | 0.45 |
| LG 630 VS6 A2 | 3.1 | 2.25 | 1.5 | 1.1 | 0.75 | 0.45 |
| LG 640 VS6 A2 | 3.1 | 2.25 | 1.5 | 1.1 | 0.75 | 0.45 |
| LG 650 VS6 A2 | 3.1 | 2.25 | 1.5 | 1.1 | 0.75 | 0.45 |
| LG 660 VS6 A2 | 3.1 | 2.25 | 1.5 | 1.1 | 0.75 | 0.45 |

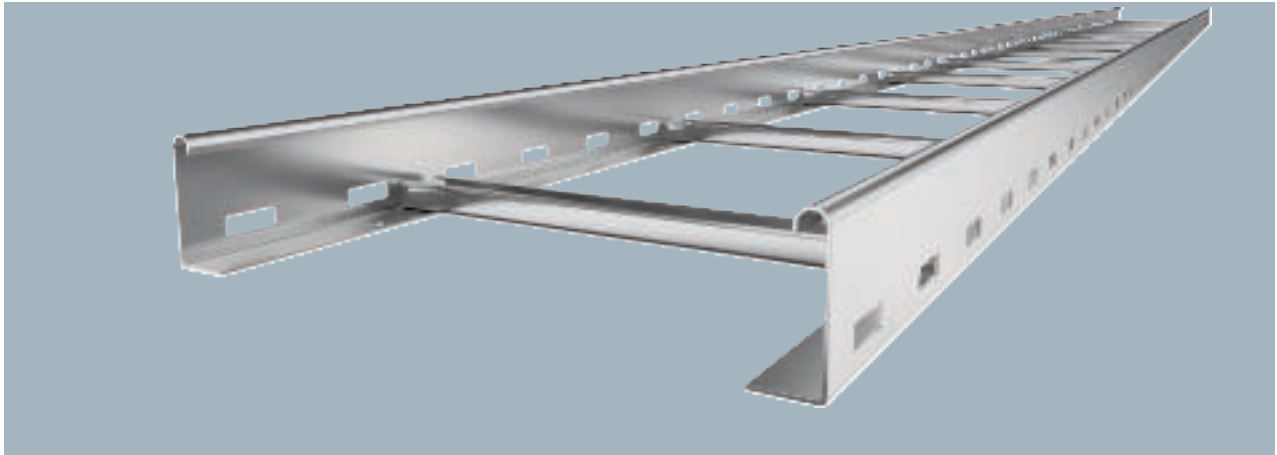
Load



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

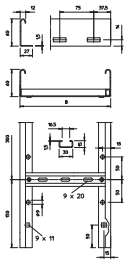
Cable ladder LG 60, 6 m VS



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).

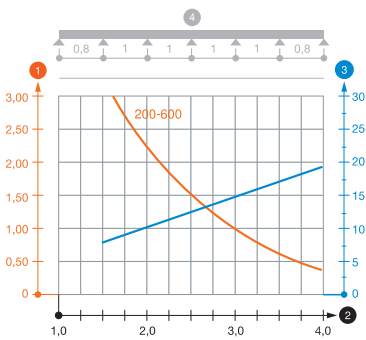
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---------------|----------|--------|-----------------|----------|
| LG 620 VS6 A4 | 200 | 6 | 267.733 | 6101200 |
| LG 630 VS6 A4 | 300 | 6 | 288.733 | 6101208 |
| LG 640 VS6 A4 | 400 | 6 | 314.400 | 6101216 |
| LG 650 VS6 A4 | 500 | 6 | 341.666 | 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 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 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 |

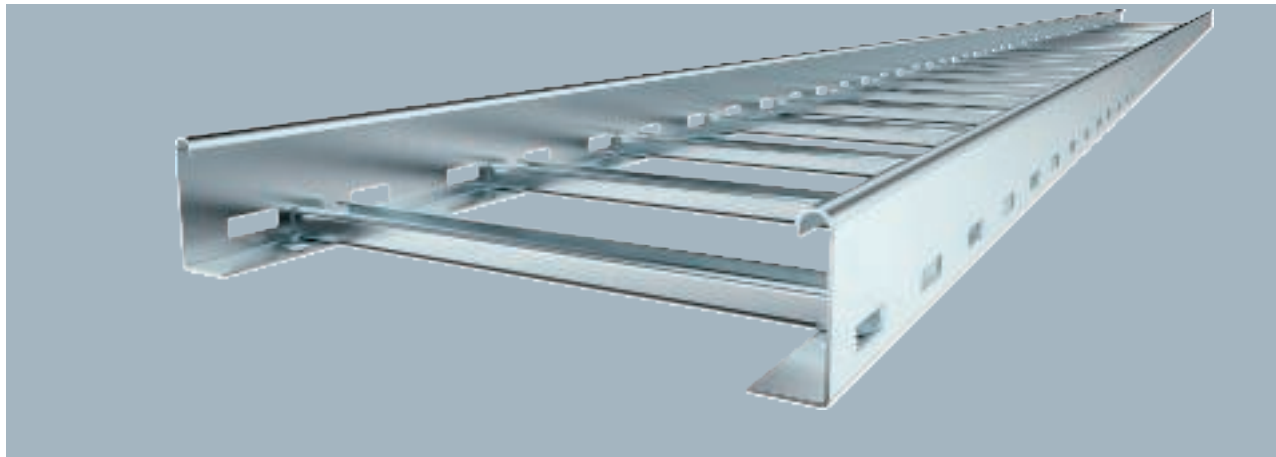
Load diagram, LG 60 VS

- 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



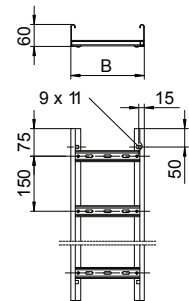
LG 60 cable ladder, 6 m VSF

| | | |
|-----|-----|-----|
| St | FS | |
| E30 | E60 | E90 |



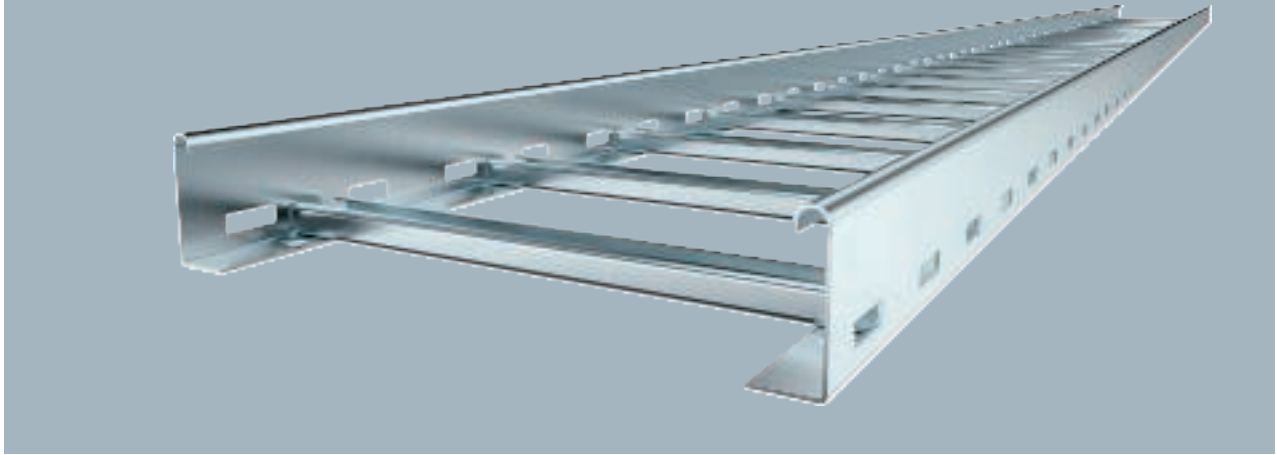
| Type | Rail thickness mm | Width mm | Length mm | Rung spacing mm | Dim. B mm | Pack m | Weight kg/100 m | Item no. |
|------------------|-------------------|----------|-----------|-----------------|-----------|--------|-----------------|----------|
| LG 620 VSF6000FS | 1.5 | 200 | 6000 | 150 | 200 | 6 | 311.866 | 6207501 |
| LG 630 VSF6000FS | 1.5 | 300 | 6000 | 150 | 300 | 6 | 355.833 | 6207505 |
| LG 640 VSF6000FS | 1.5 | 400 | 6000 | 150 | 400 | 6 | 407.166 | 6207509 |

Cable ladder for the horizontal routing of cables. Can be used as a standard support structure for the maintenance of electrical functionality according to DIN 4102 Part 12. Maintenance of electrical function classes E30 to E90. With riveted C profile rung, open in an upward direction.

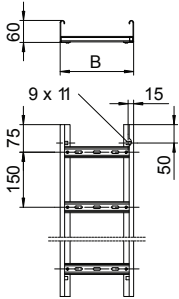


LG 60 cable ladder, 6 m VSF

St FT
E30 E60 E90



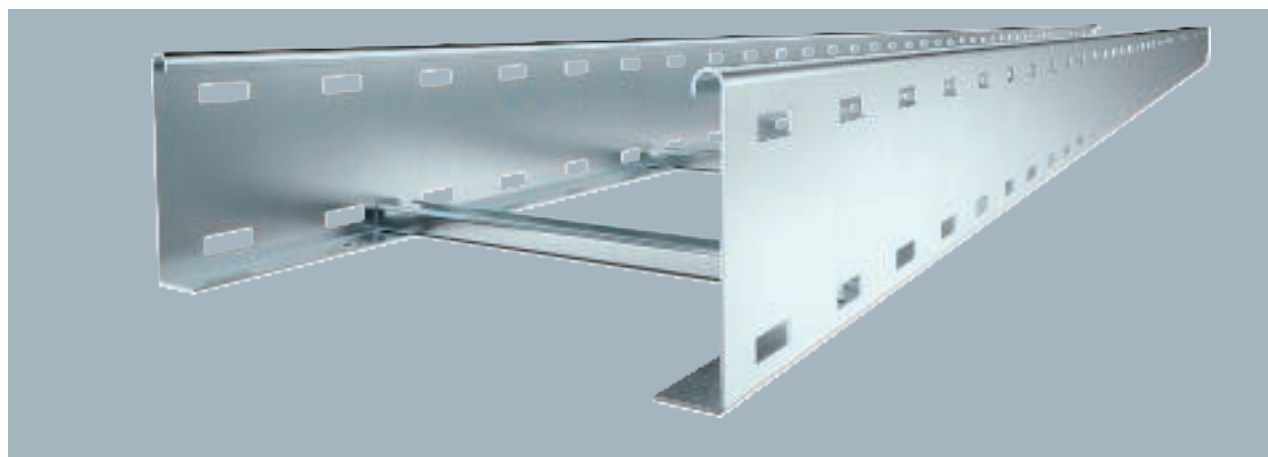
Cable ladder for the horizontal routing of cables. Can be used as a standard support structure for the maintenance of electrical functionality according to DIN 4102 Part 12. Maintenance of electrical function classes E30 to E90. With riveted C profile rung, open in an upward direction.



| Type | Rail thickness mm | Width mm | Length mm | Rung spacing mm | Dim. B mm | Pack m | Weight kg/100 m | Item no. |
|---------------|-------------------|----------|-----------|-----------------|-----------|--------|-----------------|----------|
| LG 620 VSF FT | 1.5 | 200 | 6000 | 150 | 200 | 6 | 333.166 | 6207523 |
| LG 630 VSF FT | 1.5 | 300 | 6000 | 150 | 300 | 6 | 379.166 | 6207527 |
| LG 640 VSF FT | 1.5 | 400 | 6000 | 150 | 400 | 6 | 425.166 | 6207531 |



Cable ladder LG 110, 3 m VS

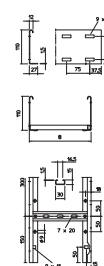


| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|----------------|-------------|-----------|--------------------|----------|
| LG 112 VS 3 FS | 200 | 3 | 396.600 | 6216404 |
| LG 113 VS 3 FS | 300 | 3 | 396.600 | 6216407 |
| LG 114 VS 3 FS | 400 | 3 | 422.267 | 6216410 |
| LG 115 VS 3 FS | 500 | 3 | 440.267 | 6216413 |
| LG 116 VS 3 FS | 600 | 3 | 462.000 | 6216416 |

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.

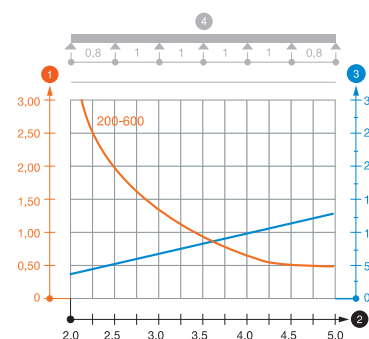
| Type | Length mm | Dim. B mm | Rail thick- ness mm | Usable cross- section cm ² | Rung spacing mm |
|----------------|--------------|--------------|---------------------------|---|--------------------|
| LG 112 VS 3 FS | 3000 | 200 | 1.5 | 188 | 300 |
| LG 113 VS 3 FS | 3000 | 300 | 1.5 | 283 | 300 |
| 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 |

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 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 |

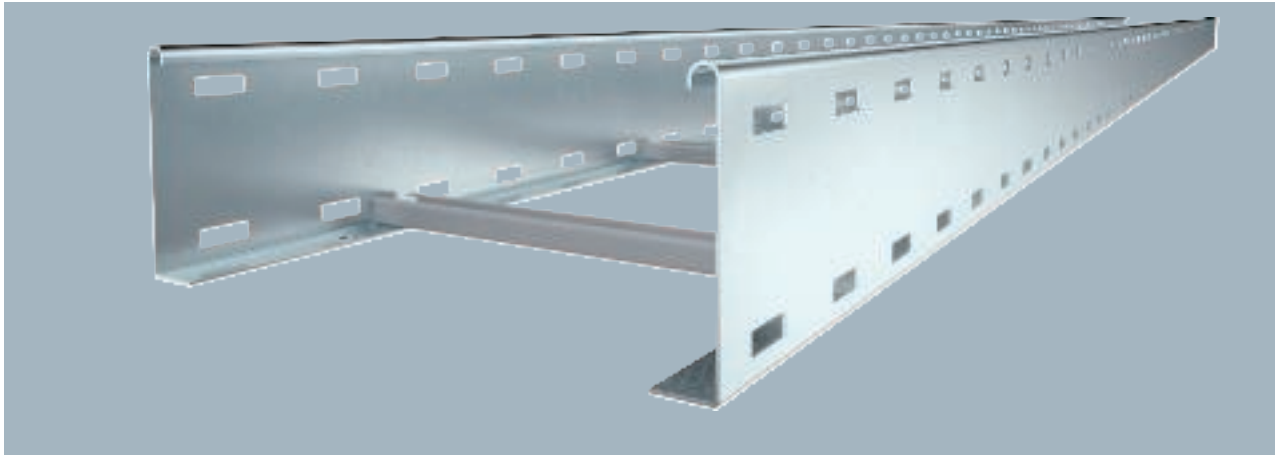
Load



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

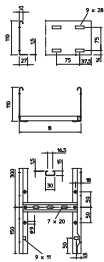
Cable ladder LG 110, 6 m VS



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.

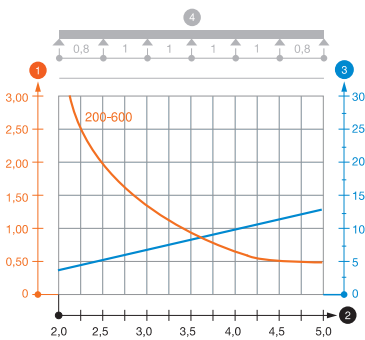
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|----------------|----------|--------|-----------------|----------|
| LG 112 VS 6 FS | 200 | 6 | 374.966 | 6216442 |
| LG 113 VS 6 FS | 300 | 6 | 396.633 | 6216445 |
| LG 114 VS 6 FS | 400 | 6 | 422.300 | 6216448 |
| LG 115 VS 6 FS | 500 | 6 | 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



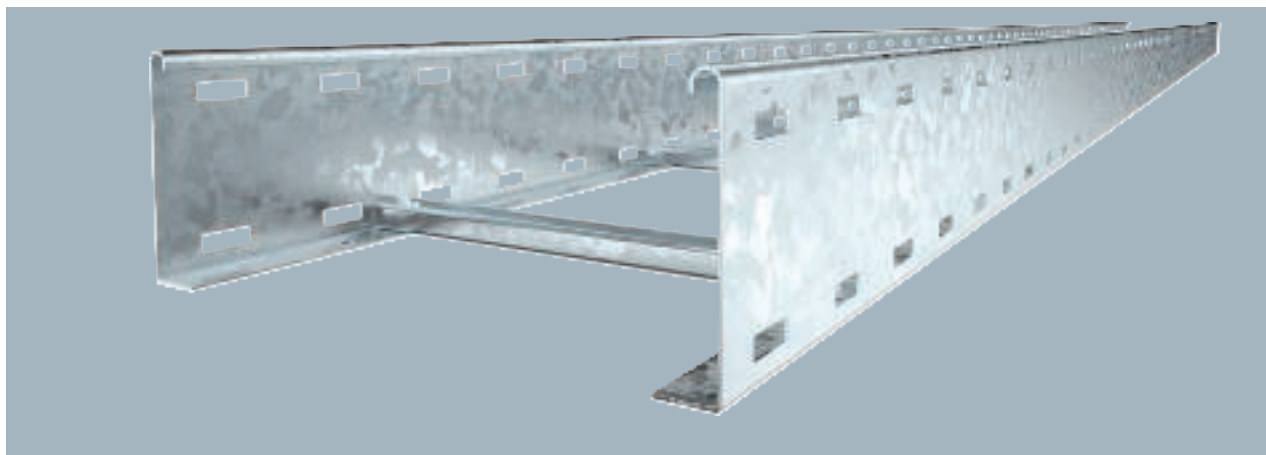
| | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m | 5.0 m kN/m |
|----------------|------------|------------|------------|------------|
| LG 112 VS 6 FS | 3.1 | 1.4 | 0.65 | 0.5 |
| LG 113 VS 6 FS | 3.1 | 1.4 | 0.65 | 0.5 |
| LG 114 VS 6 FS | 3.1 | 1.4 | 0.65 | 0.5 |
| LG 115 VS 6 FS | 3.1 | 1.4 | 0.65 | 0.5 |
| 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

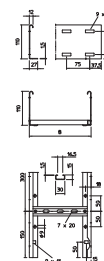


| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|----------------|-------------|-----------|--------------------|----------|
| LG 112 VS 6 FT | 200 | 6 | 399.867 | 6216465 |
| LG 113 VS 6 FT | 300 | 6 | 422.833 | 6216468 |
| LG 114 VS 6 FT | 400 | 6 | 445.867 | 6216471 |
| LG 115 VS 6 FT | 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.

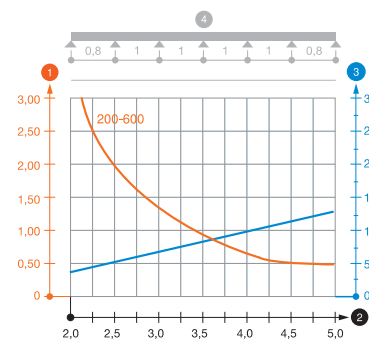
| Type | Length mm | Dim. B mm | Rail thick- ness mm | Usable cross- section cm ² | Rung spacing mm |
|----------------|--------------|--------------|---------------------------|---|-----------------------|
| LG 112 VS 6 FT | 6000 | 200 | 1.5 | 188 | 300 |
| LG 113 VS 6 FT | 6000 | 300 | 1.5 | 283 | 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 |

Dimensions



| | 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



Load diagram, cable ladder, type LG 110 VS

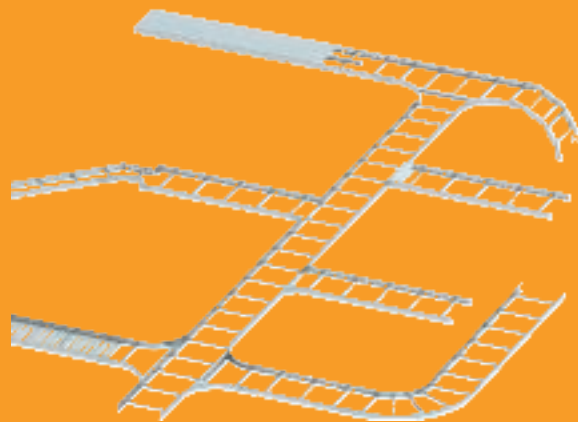
- 1 Permitted cable tray/ladder load in kN/m without man load
- 2 Support width in m
- 3 Rail bend in mm at permitted kN/m
- 4 Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width





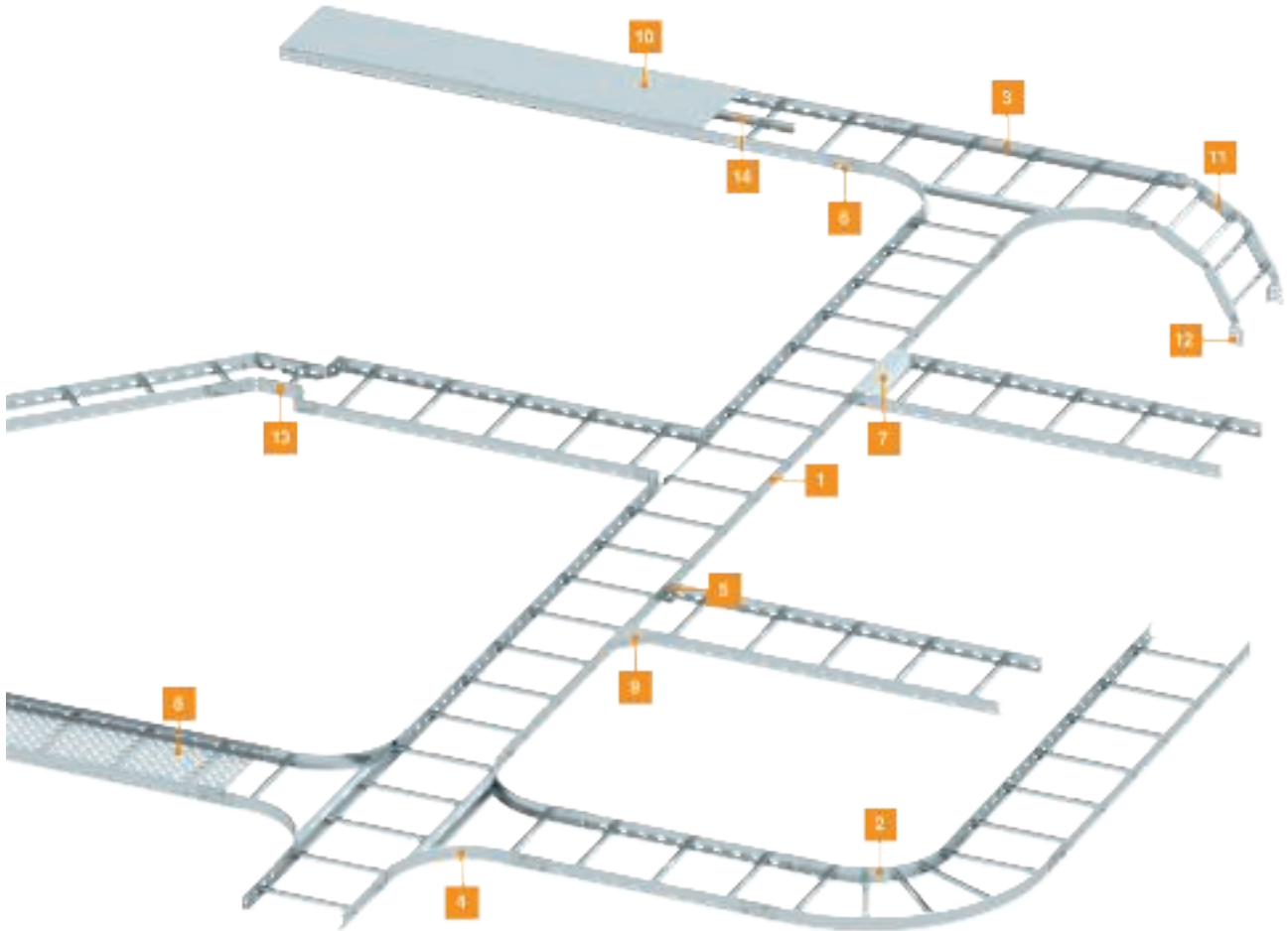
Welded cable ladder systems

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.



Cable ladder systems, welded

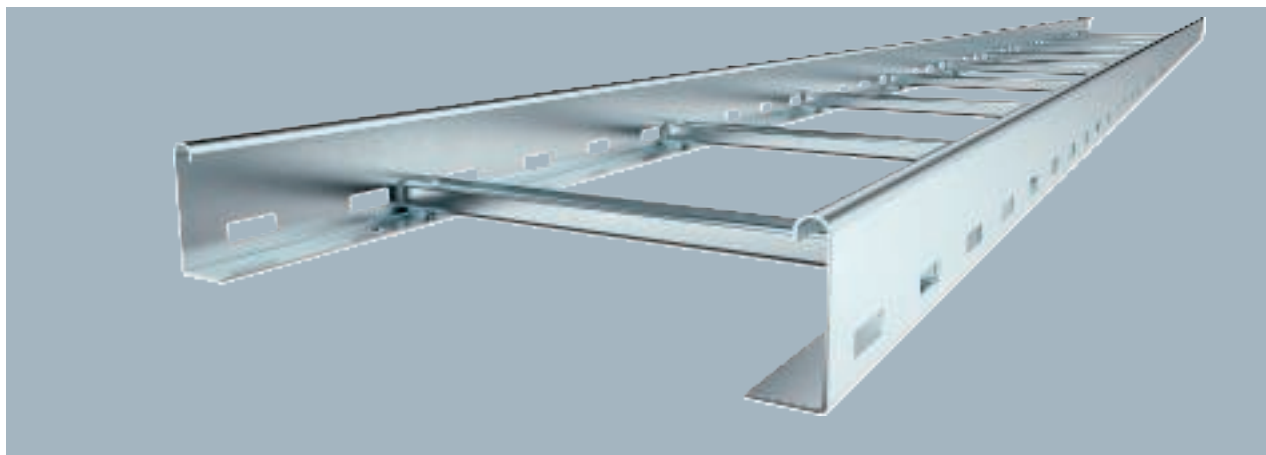
Installation principle



| | | | | | |
|----|------------------------|-------|----|---------------------------|------|
| 1 | Cable ladders | LCIS | 11 | Adjustable bend element | LGBE |
| 2 | 90° bend | LB 90 | 12 | Adjustable connector | LGVG |
| 3 | T branch piece | LT | 13 | Multifunctional connector | LMFV |
| 4 | Add-on tee | LAA | 14 | Barrier strip | |
| 5 | Connection piece | LAS | | | |
| 6 | Straight connector | LVG | | | |
| 7 | Support plate | SAB | | | |
| 8 | Insertion plate | ELB-L | | | |
| 9 | Corner plate | LEB | | | |
| 10 | Cover with cover clamp | | | | |



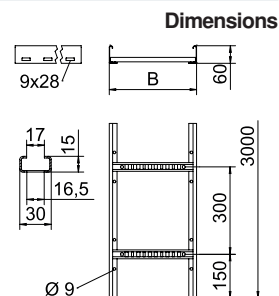
Cable ladder LCIS 60, 3 m C30



| 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 |

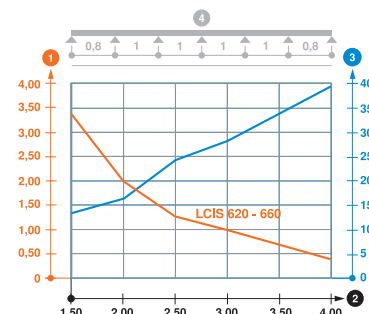
Cable ladder with a 60 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamping pieces, type LKS 40. The slot dimension of the rung is 16.5 mm and the appropriate clamp clip is type 2056.

| Type | Length mm | 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 |



| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---------------|------------|------------|------------|------------|------------|
| LCIS 620 3 FS | 3.3 | 2 | 1.3 | 1 | 0.4 |
| LCIS 630 3 FS | 3.3 | 2 | 1.3 | 1 | 0.4 |
| LCIS 640 3 FS | 3.3 | 2 | 1.3 | 1 | 0.4 |
| LCIS 650 3 FS | 3.3 | 2 | 1.3 | 1 | 0.4 |
| LCIS 660 3 FS | 3.3 | 2 | 1.3 | 1 | 0.4 |

Load



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

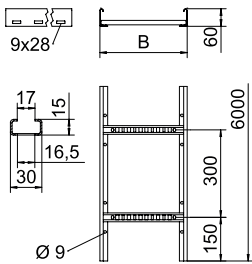
Cable ladder LCIS 60, 6 m C30



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 clamping pieces, type LKS 40. The slot dimension of the rung is 16.5 mm and the appropriate clamp clip is type 2056.

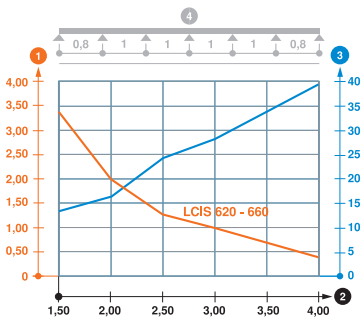
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---------------|-------------|-----------|--------------------|----------|
| LCIS 620 6 FS | 200 | 6 | 267.170 | 6209630 |
| LCIS 630 6 FS | 300 | 6 | 288.840 | 6209632 |
| LCIS 640 6 FS | 400 | 6 | 310.670 | 6209634 |
| LCIS 650 6 FS | 500 | 6 | 332.340 | 6209636 |
| LCIS 660 6 FS | 600 | 6 | 354.000 | 6209638 |

Dimensions



| Type | Length mm | Dim. B mm | Rail thick- ness 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 |

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 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 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



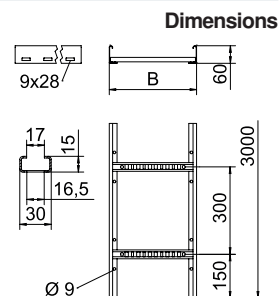
Cable ladder LCIS 60, 3 m C30



| 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 |

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 clamping pieces, type LKS 40. The slot dimension of the rung is 16.5 mm and the appropriate clamp clip is type 2056.

| Type | Length mm | 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 |

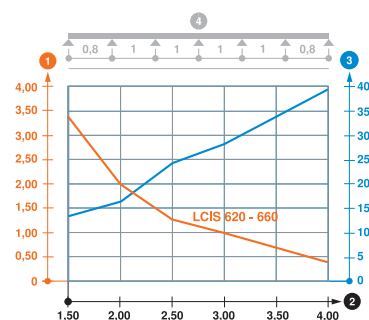


| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---------------|------------|------------|------------|------------|------------|
| LCIS 620 3 FT | 3.3 | 2 | 1.3 | 1 | 0.4 |
| LCIS 630 3 FT | 3.3 | 2 | 1.3 | 1 | 0.4 |
| LCIS 640 3 FT | 3.3 | 2 | 1.3 | 1 | 0.4 |
| LCIS 650 3 FT | 3.3 | 2 | 1.3 | 1 | 0.4 |
| LCIS 660 3 FT | 3.3 | 2 | 1.3 | 1 | 0.4 |

Load

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



St FT

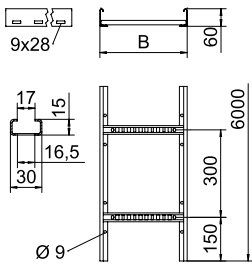
LCIS 60 cable ladder, 6 m C30



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 clamping pieces, type LKS 40. The slot dimension of the rung is 16.5 mm and the appropriate clamp clip is type 2056.

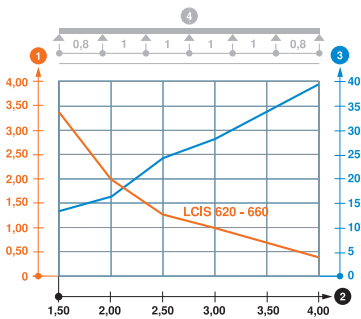
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---------------|-------------|-----------|--------------------|----------|
| LCIS 620 6 FT | 200 | 6 | 283.170 | 6209643 |
| LCIS 630 6 FT | 300 | 6 | 306.170 | 6209645 |
| LCIS 640 6 FT | 400 | 6 | 329.170 | 6209647 |
| LCIS 650 6 FT | 500 | 6 | 352.340 | 6209649 |
| LCIS 660 6 FT | 600 | 6 | 375.340 | 6209651 |

Dimensions



| Type | Length mm | Dim. B mm | Rail thick- ness 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

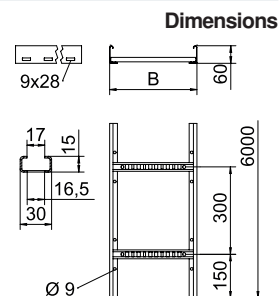
Cable ladder LCIS 60, 6 m C30



| 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 |

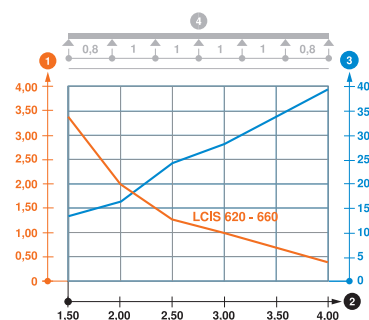


| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---------------|------------|------------|------------|------------|------------|
| LCIS 620 6 A2 | 3.3 | 2 | 1.3 | 1 | 0.4 |
| LCIS 630 6 A2 | 3.3 | 2 | 1.3 | 1 | 0.4 |
| LCIS 640 6 A2 | 3.3 | 2 | 1.3 | 1 | 0.4 |
| LCIS 650 6 A2 | 3.3 | 2 | 1.3 | 1 | 0.4 |
| LCIS 660 6 A2 | 3.3 | 2 | 1.3 | 1 | 0.4 |

Load

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



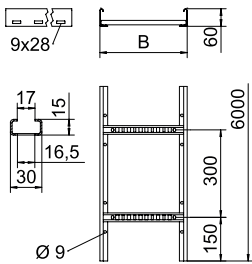
Cable ladder LCIS 60, 6 m C30



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.

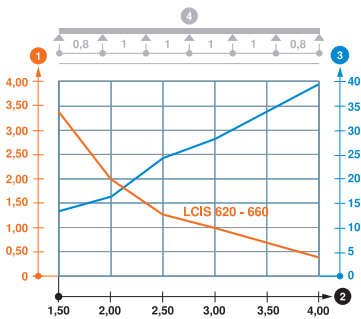
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---------------|-------------|-----------|--------------------|----------|
| LCIS 620 6 A4 | 200 | 6 | 267.000 | 6207202 |
| LCIS 630 6 A4 | 300 | 6 | 288.833 | 6207204 |
| LCIS 640 6 A4 | 400 | 6 | 310.500 | 6207206 |
| LCIS 650 6 A4 | 500 | 6 | 332.340 | 6207208 |
| LCIS 660 6 A4 | 600 | 6 | 354.000 | 6207210 |

Dimensions



| Type | Length mm | Dim. B mm | Rail thick- ness 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



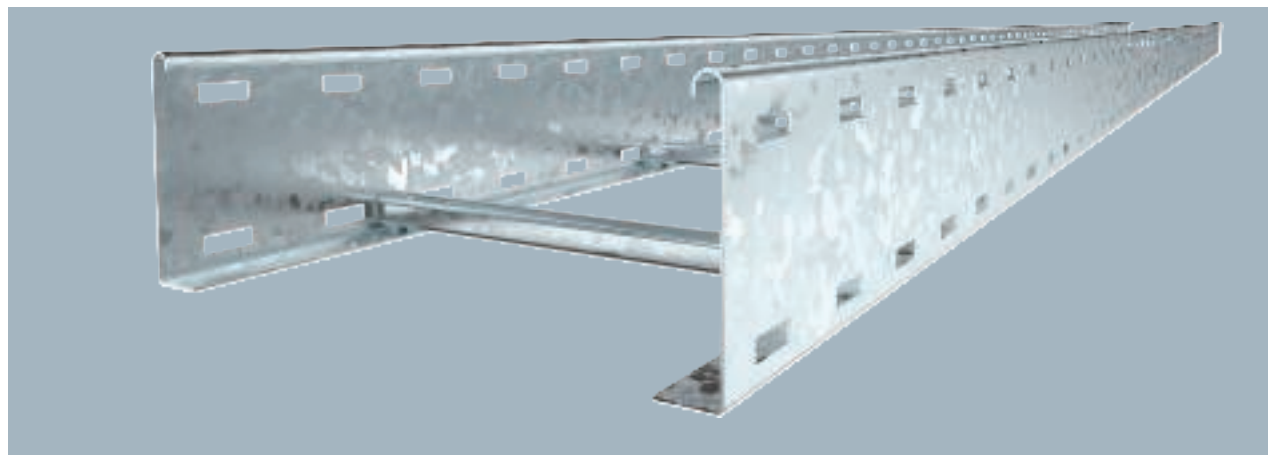
| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m | 4.0 m kN/m |
|---------------|---------------|---------------|---------------|---------------|---------------|
| LCIS 620 6 A4 | 3.3 | 2 | 1.3 | 1 | 0.4 |
| LCIS 630 6 A4 | 3.3 | 2 | 1.3 | 1 | 0.4 |
| LCIS 640 6 A4 | 3.3 | 2 | 1.3 | 1 | 0.4 |
| 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



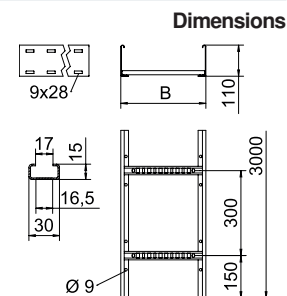
Cable ladder LCIS 110, 6 m C30



| 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 1150 6 FT | 500 | 6 | 469.867 | 6209826 |
| LCIS 1160 6 FT | 600 | 6 | 491.670 | 6209828 |

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 thickness 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 1150 6 FT | 6000 | 500 | 1.5 | 450 | 300 |
| LCIS 1160 6 FT | 6000 | 600 | 1.5 | 540 | 300 |

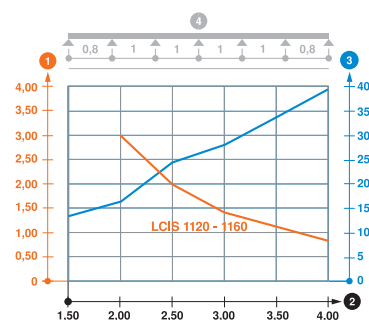


| | 2.0 m | 2.5 m | 3.0 m | 4.0 m |
|----------------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/m | kN/m |
| LCIS 1120 6 FT | 3 | 2 | 1.4 | 0.8 |
| LCIS 1130 6 FT | 3 | 2 | 1.4 | 0.8 |
| LCIS 1140 6 FT | 3 | 2 | 1.4 | 0.8 |
| LCIS 1150 6 FT | 3 | 2 | 1.4 | 0.8 |
| LCIS 1160 6 FT | 3 | 2 | 1.4 | 0.8 |

Load

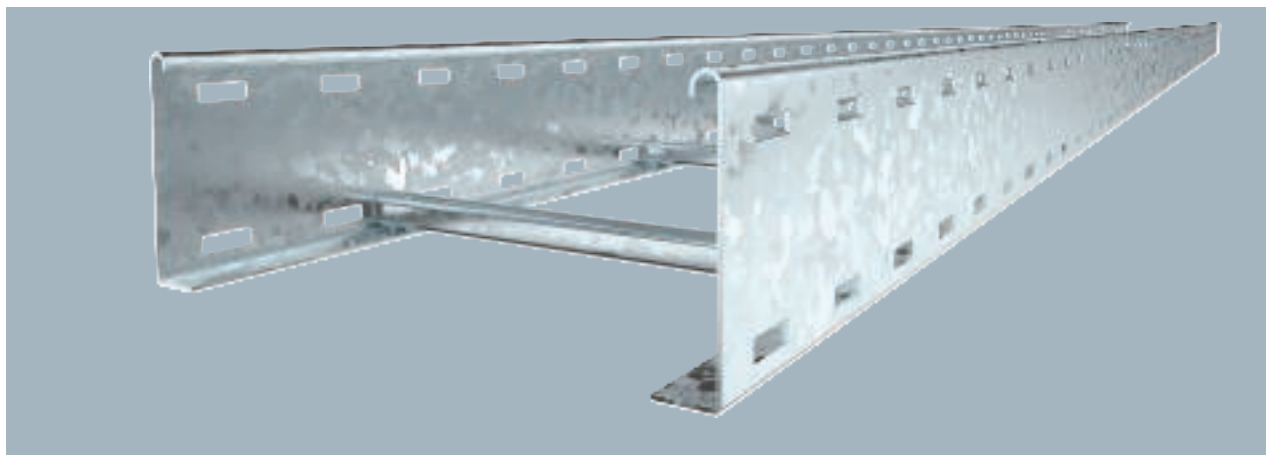
Load diagram, cable ladder, type LCIS 110

- 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



St FT

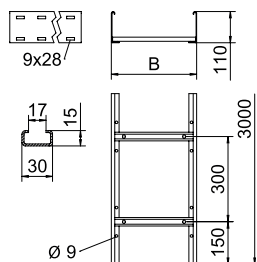
Cable ladder SLCS 110, 6 m C30



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.

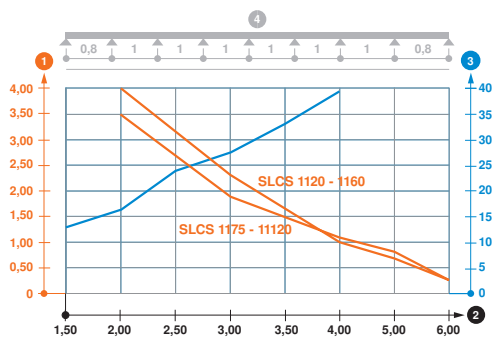
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|-----------------|----------|--------|-----------------|----------|
| SLCS 1120 3 FT | 200 | 3 | 521.800 | 6207302 |
| SLCS 1130 3 FT | 300 | 3 | 555.800 | 6207304 |
| SLCS 1140 3 FT | 400 | 3 | 589.467 | 6207306 |
| SLCS 1145 3 FT | 450 | 3 | 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 |

Dimensions



| Type | Length mm | Dim. B mm | Rail thickness 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 |

Load

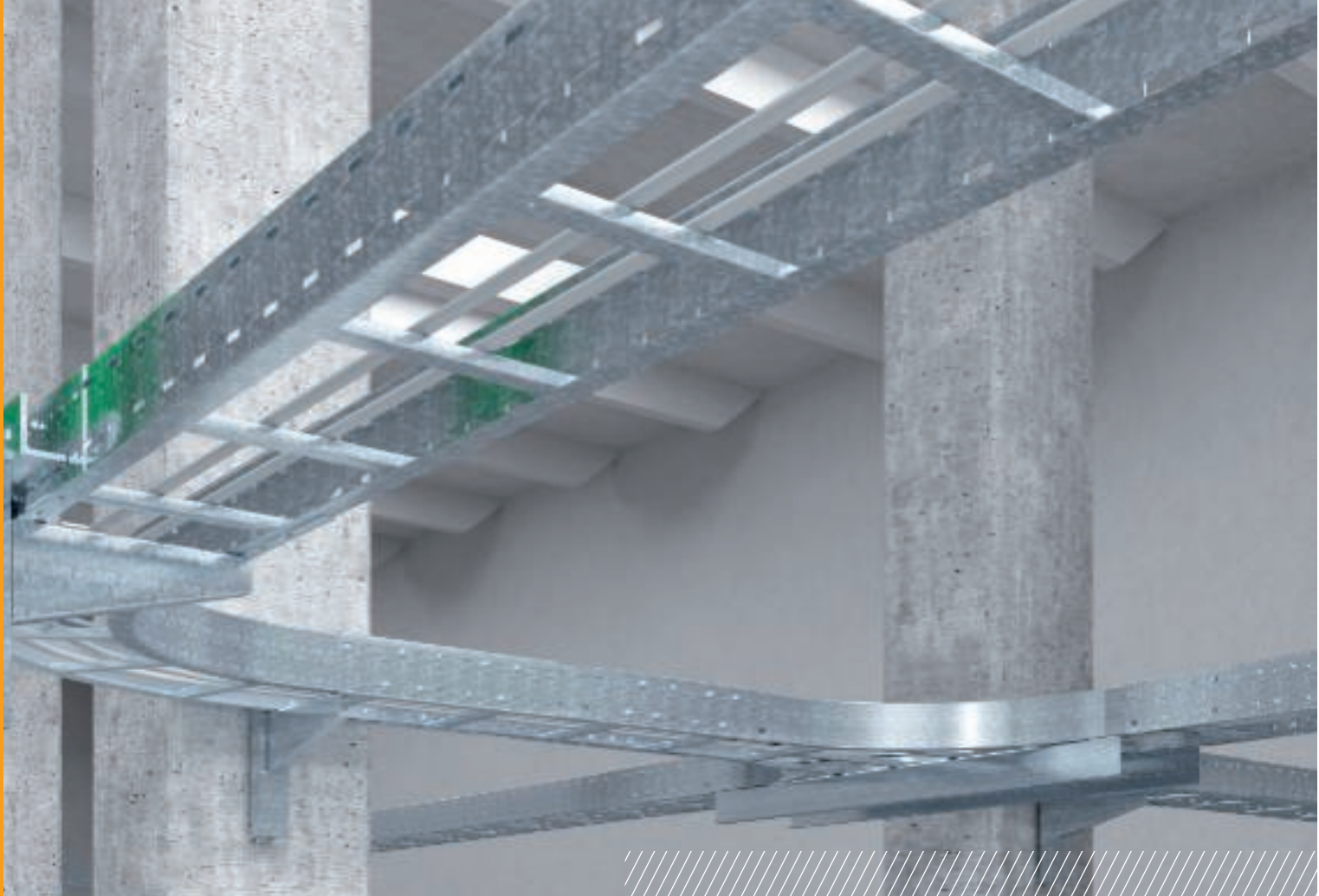


| Type | 2.0 m kN/m | 3.0 m kN/m | 4.0 m kN/m | 5.0 m kN/m | 6.0 m kN/m |
|-----------------|------------|------------|------------|------------|------------|
| SLCS 1120 3 FT | 4 | 2.3 | 1 | 0.7 | 0.25 |
| SLCS 1130 3 FT | 4 | 2.3 | 1 | 0.7 | 0.25 |
| SLCS 1140 3 FT | 4 | 2.3 | 1 | 0.7 | 0.25 |
| SLCS 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 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





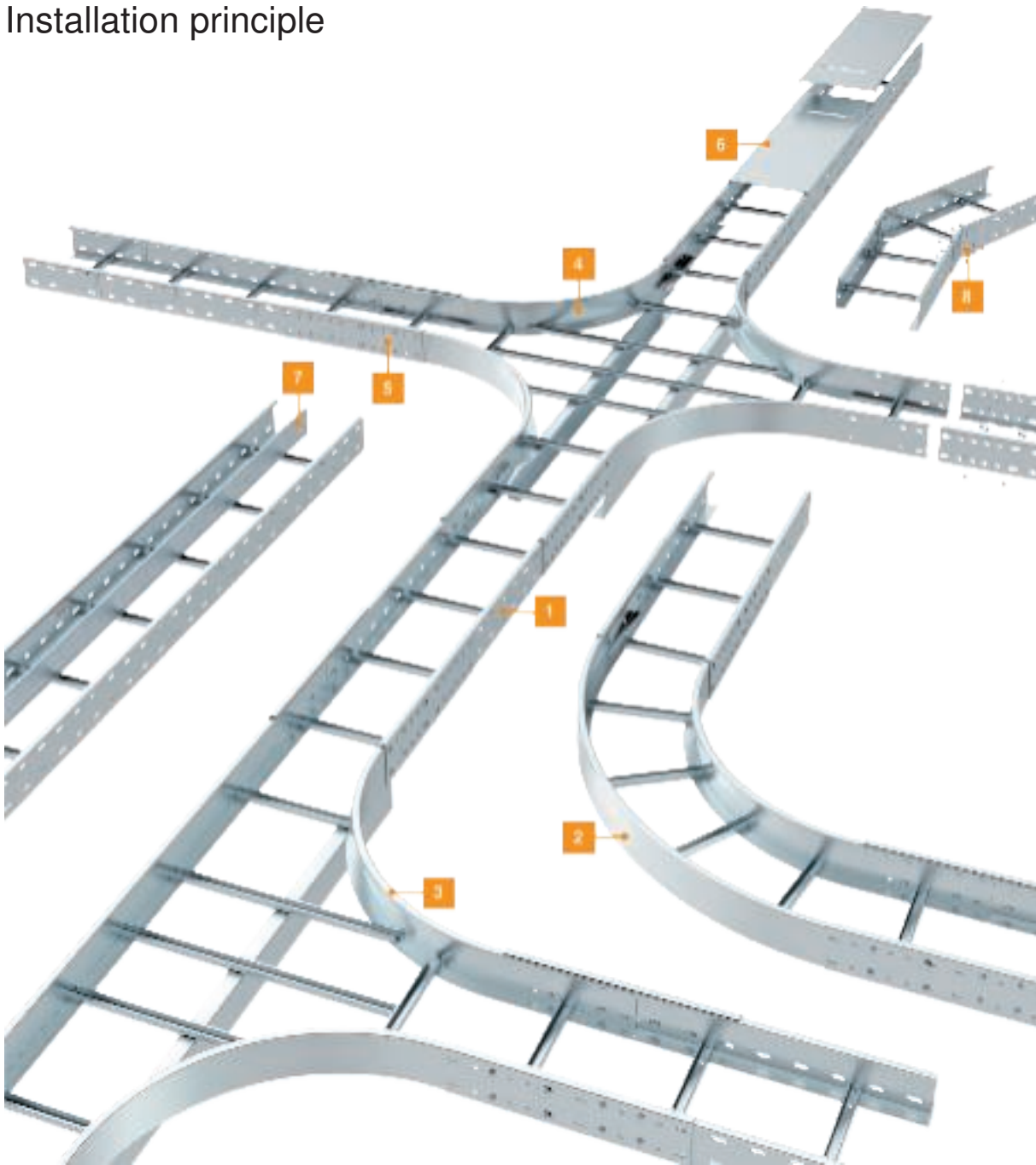
Wide span cable ladder systems

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 | WKLG |
| 2 | 90° bend | WLB 90 |
| 3 | T branch piece | WLT |
| 4 | Cross-over | WLK |
| 5 | Straight connector | LVG |
| 6 | Cover with turn buckle | WDRL |
| 7 | Barrier strip | |



Wide span cable ladder WKLG 110



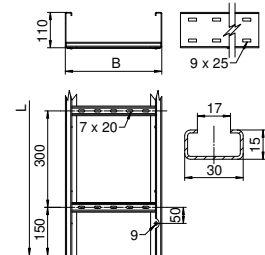
| Type | Width mm | Rail thickness mm | Pack m | Weight kg/100 m | Item no. |
|--------------|----------|-------------------|--------|-----------------|----------|
| WKLG 1120 FS | 200 | 2 | 6 | 560.400 | 6311008 |
| WKLG 1130 FS | 300 | 2 | 6 | 583.000 | 6311012 |
| WKLG 1140 FS | 400 | 2 | 6 | 605.800 | 6311016 |
| WKLG 1150 FS | 500 | 2 | 6 | 628.833 | 6311020 |
| WKLG 1160 FS | 600 | 2 | 6 | 652.000 | 6311024 |

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.

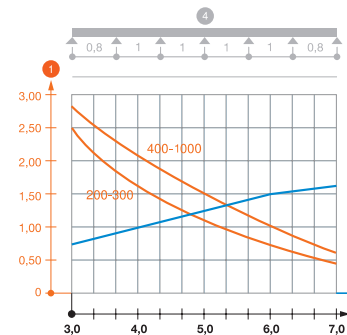
| Type | Dim. L mm | Dim. B mm | Usable cross-section cm ² |
|--------------|-----------|-----------|--------------------------------------|
| WKLG 1120 FS | 6000 | 200 | 186 |
| WKLG 1130 FS | 6000 | 300 | 281 |
| WKLG 1140 FS | 6000 | 400 | 376 |
| WKLG 1150 FS | 6000 | 500 | 471 |
| WKLG 1160 FS | 6000 | 600 | 566 |

Dimensions



| | 4.0 m | 5.0 m | 6.0 m | 7.0 m |
|--------------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/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

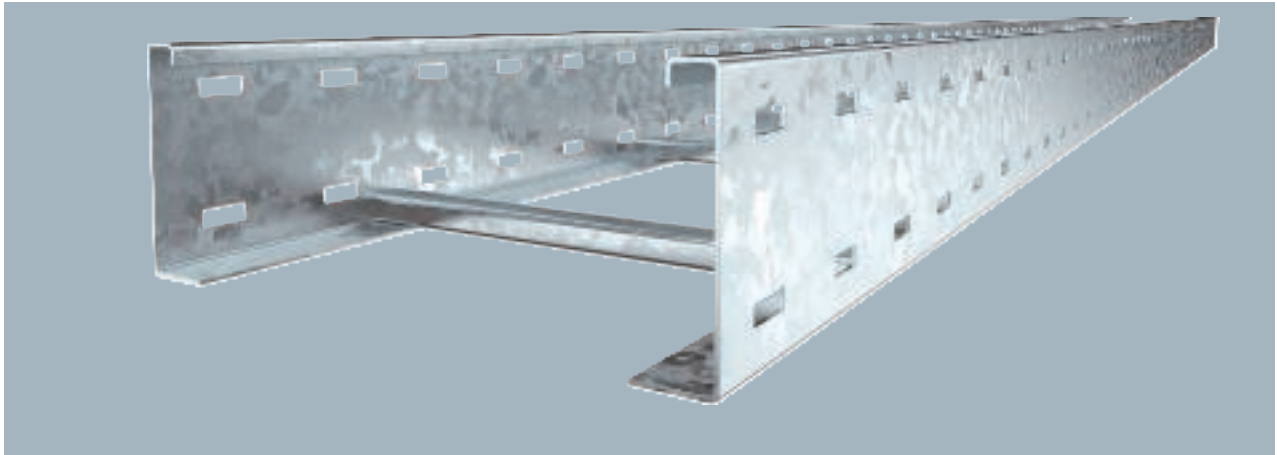


Load diagram, wide span cable ladder, type WKLG 110

- 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

St FT

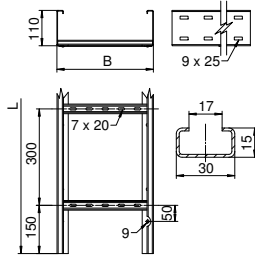
Wide span cable ladder WKLG 110



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.

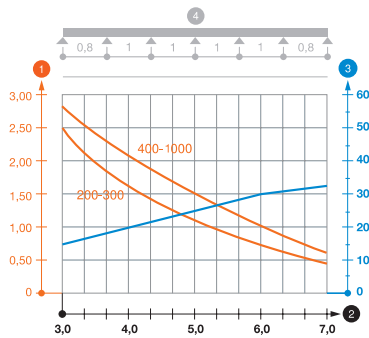
| Type | Width mm | Rail thickness mm | Pack m | Weight kg/100 m | Item no. |
|--------------|----------|-------------------|--------|-----------------|----------|
| WKLG 1120 FT | 200 | 2 | 6 | 589.000 | 6311059 |
| WKLG 1130 FT | 300 | 2 | 6 | 612.800 | 6311063 |
| WKLG 1140 FT | 400 | 2 | 6 | 637.166 | 6311067 |
| WKLG 1150 FT | 500 | 2 | 6 | 662.066 | 6311071 |
| WKLG 1160 FT | 600 | 2 | 6 | 686.600 | 6311075 |

Dimensions



| 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 |

Load

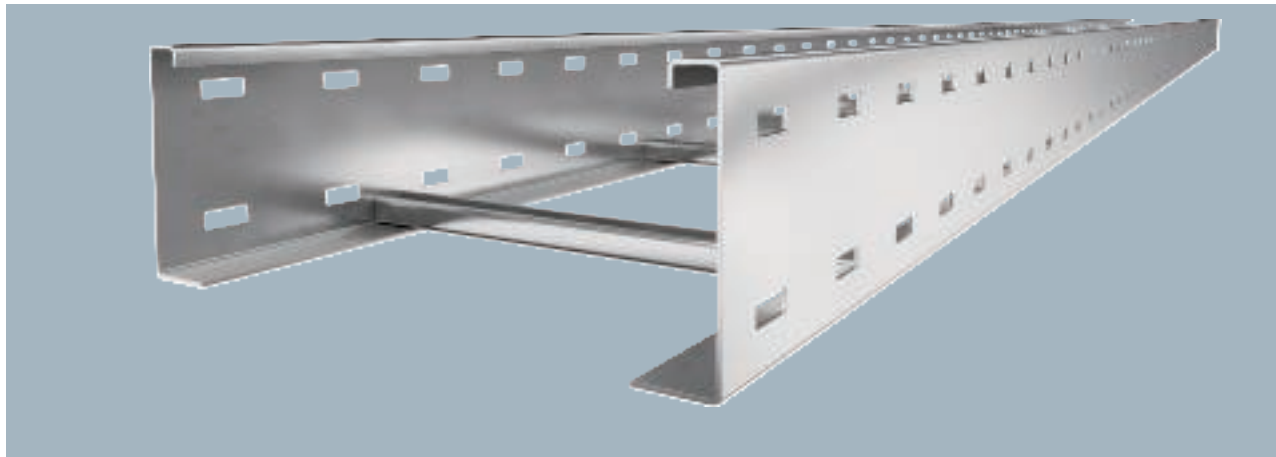


| | 4.0 m kN/m | 5.0 m kN/m | 6.0 m kN/m | 7.0 m kN/m |
|--------------|------------|------------|------------|------------|
| WKLG 1120 FT | 1.6 | 1.1 | 0.8 | 0.4 |
| WKLG 1130 FT | 1.6 | 1.1 | 0.8 | 0.4 |
| WKLG 1140 FT | 2.1 | 1.5 | 1 | 0.7 |
| WKLG 1150 FT | 2.1 | 1.5 | 1 | 0.7 |
| WKLG 1160 FT | 2.1 | 1.5 | 1 | 0.7 |

Load 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



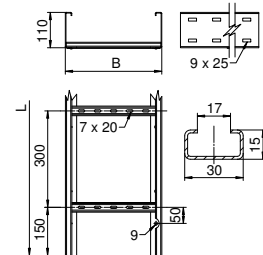
| Type | Width mm | Rail thickness mm | Pack m | Weight kg/100 m | Item no. |
|--------------|----------|-------------------|--------|-----------------|----------|
| WKLG 1120 A2 | 200 | 2 | 6 | 560.400 | 6311202 |
| WKLG 1130 A2 | 300 | 2 | 6 | 582.800 | 6311206 |
| WKLG 1140 A2 | 400 | 2 | 6 | 605.800 | 6311210 |
| WKLG 1150 A2 | 500 | 2 | 6 | 628.866 | 6311214 |
| WKLG 1160 A2 | 600 | 2 | 6 | 652.000 | 6311218 |

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.

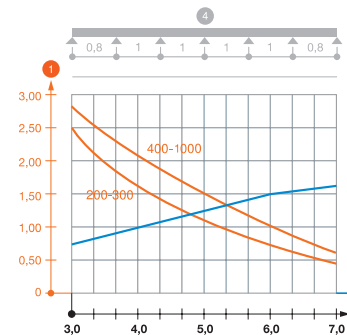
| Type | Dim. L mm | Dim. B mm | Usable cross-section cm ² |
|--------------|-----------|-----------|--------------------------------------|
| WKLG 1120 A2 | 6000 | 200 | 186 |
| WKLG 1130 A2 | 6000 | 300 | 281 |
| WKLG 1140 A2 | 6000 | 400 | 376 |
| WKLG 1150 A2 | 6000 | 500 | 471 |
| WKLG 1160 A2 | 6000 | 600 | 566 |

Dimensions



| | 4.0 m | 5.0 m | 6.0 m | 7.0 m |
|--------------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/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 |

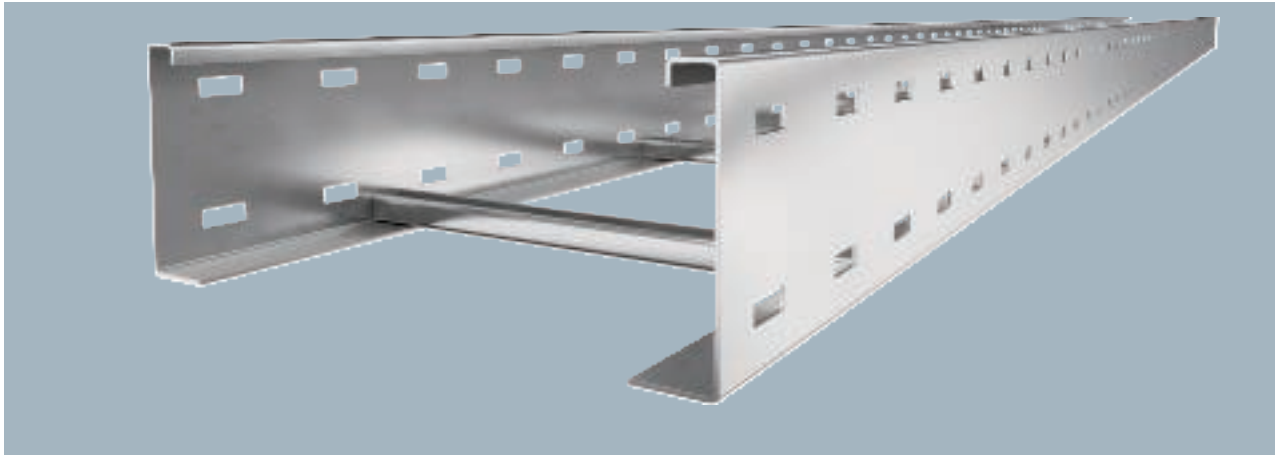
Load



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

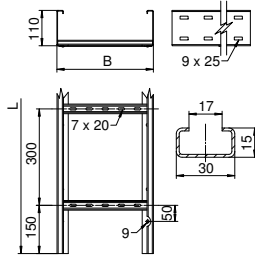
Wide span cable ladder WKLG 110



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.

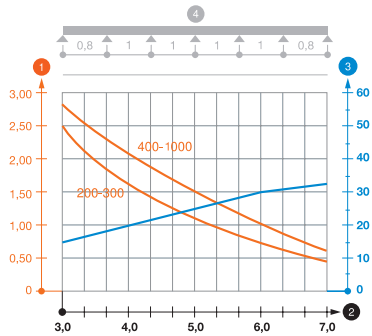
| Type | Width mm | Rail thickness mm | Pack m | Weight kg/100 m | Item no. |
|--------------|-------------|----------------------|-----------|--------------------|----------|
| WKLG 1120 A4 | 200 | 2 | 6 | 560.400 | 6311225 |
| WKLG 1130 A4 | 300 | 2 | 6 | 582.800 | 6311227 |
| WKLG 1140 A4 | 400 | 2 | 6 | 605.800 | 6311229 |
| WKLG 1150 A4 | 500 | 2 | 6 | 628.866 | 6311231 |
| WKLG 1160 A4 | 600 | 2 | 6 | 652.000 | 6311233 |

Dimensions



| 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 |

Load



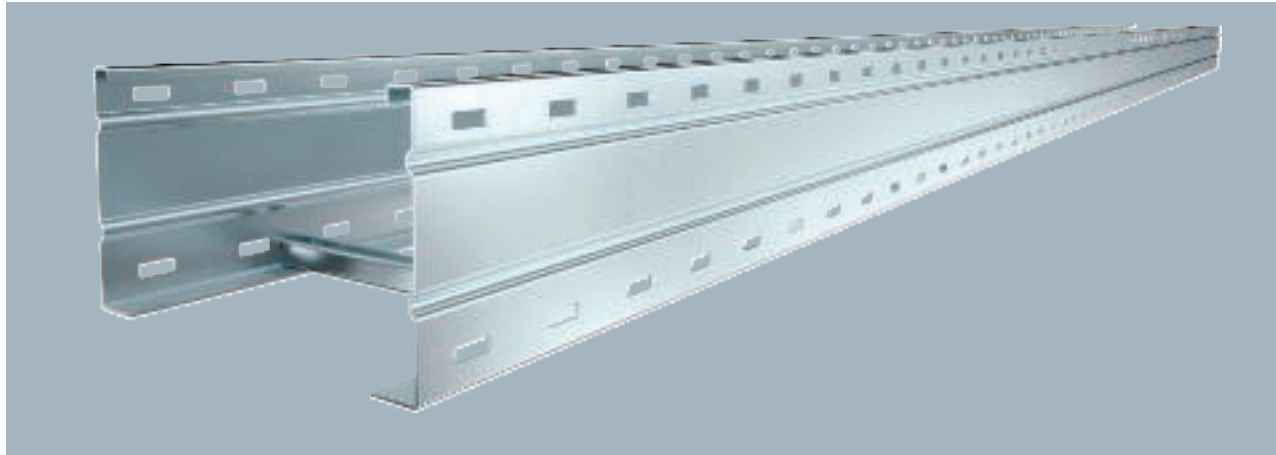
| | 4.0 m kN/m | 5.0 m kN/m | 6.0 m kN/m | 7.0 m kN/m |
|--------------|---------------|---------------|---------------|---------------|
| WKLG 1120 A4 | 1.6 | 1.1 | 0.8 | 0.4 |
| WKLG 1130 A4 | 1.6 | 1.1 | 0.8 | 0.4 |
| WKLG 1140 A4 | 1.6 | 1.1 | 0.8 | 0.4 |
| WKLG 1150 A4 | 1.6 | 1.1 | 0.8 | 0.4 |
| 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



Wide span cable ladder WKLG 160



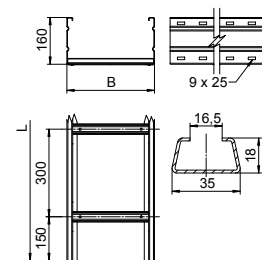
| Type | Width mm | Rail thickness mm | Pack m | Weight kg/100 m | Item no. |
|--------------|----------|-------------------|--------|-----------------|----------|
| WKLG 1620 FS | 200 | 2 | 6 | 737.334 | 6227023 |
| WKLG 1630 FS | 300 | 2 | 6 | 767.334 | 6227031 |
| WKLG 1640 FS | 400 | 2 | 6 | 797.834 | 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

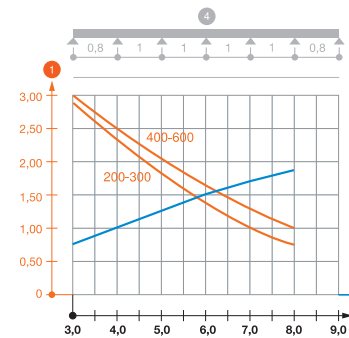


| | 5.0 m | 6.0 m | 7.0 m | 8.0 m |
|--------------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/m | kN/m |
| WKLG 1620 FS | 1.8 | 1.4 | 1 | 0.7 |
| WKLG 1630 FS | 1.8 | 1.4 | 1 | 0.7 |
| WKLG 1640 FS | 2 | 1.6 | 1.3 | 1 |
| WKLG 1650 FS | 2 | 1.6 | 1.3 | 1 |
| WKLG 1660 FS | 2 | 1.6 | 1.3 | 1 |

Load diagram, wide span cable ladder, type WKLG 160

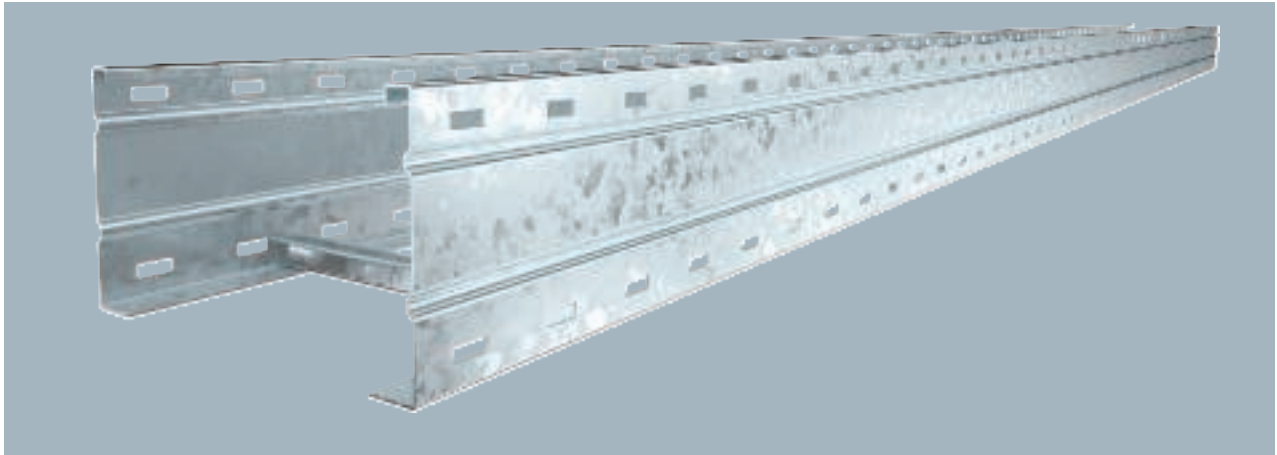
- 1 Permitted cable tray/ladder load in kN/m without man load
- 2 Support width in m
- 3 Rail bend in mm at permitted kN/m
- 4 Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width

Load



St FT

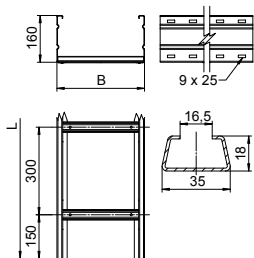
Wide span cable ladder WKLG 160



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.

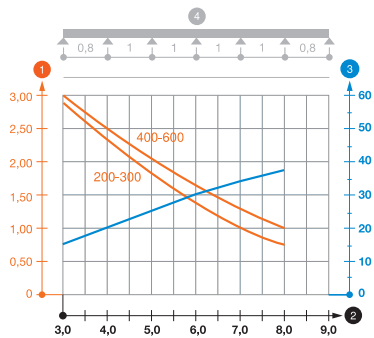
| Type | Width mm | Rail thickness mm | Pack m | Weight kg/100 m | Item no. |
|--------------|----------|-------------------|--------|-----------------|----------|
| WKLG 1620 FT | 200 | 2 | 6 | 770.667 | 6227120 |
| WKLG 1630 FT | 300 | 2 | 6 | 802.500 | 6227139 |
| WKLG 1640 FT | 400 | 2 | 6 | 835.000 | 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



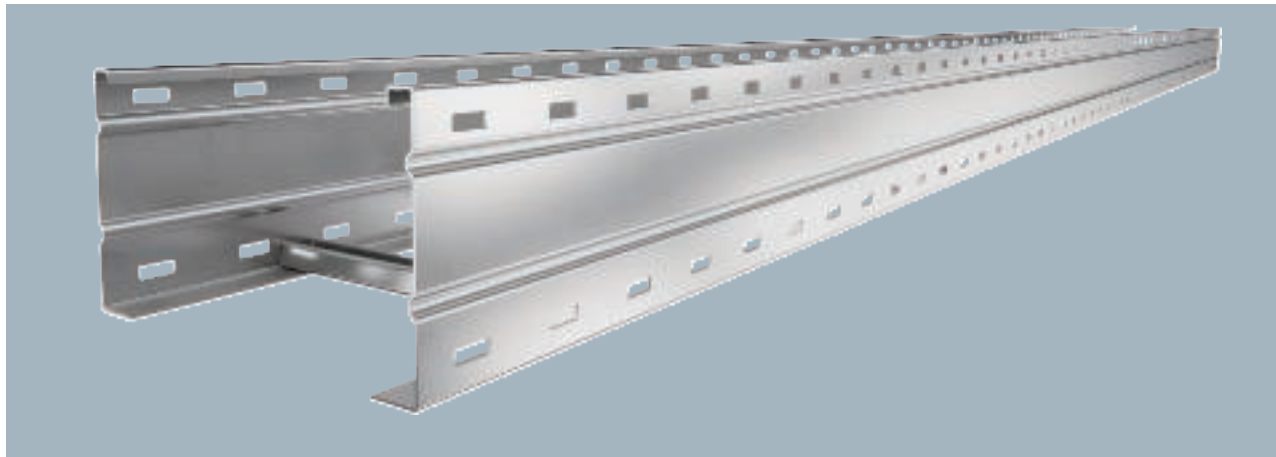
| | 5.0 m | 6.0 m | 7.0 m | 8.0 m |
|--------------|-------|-------|-------|-------|
| | kN/m | | | |
| WKLG 1620 FT | 1.8 | 1.4 | 1 | 0.7 |
| WKLG 1630 FT | 1.8 | 1.4 | 1 | 0.7 |
| WKLG 1640 FT | 2 | 1.6 | 1.3 | 1 |
| WKLG 1650 FT | 2 | 1.6 | 1.3 | 1 |
| WKLG 1660 FT | 2 | 1.6 | 1.3 | 1 |

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



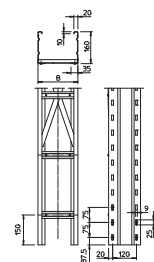
| Type | Width mm | Rail thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|--------------|-------------|---------------------------|-----------|--------------------|----------|
| WKLG 1620 A4 | 200 | 2 | 6 | 737.334 | 6227170 |
| WKLG 1630 A4 | 300 | 2 | 6 | 767.334 | 6227172 |
| WKLG 1640 A4 | 400 | 2 | 6 | 797.834 | 6227174 |
| WKLG 1650 A4 | 500 | 2 | 6 | 828.500 | 6227176 |
| WKLG 1660 A4 | 600 | 2 | 6 | 859.334 | 6227178 |

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 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

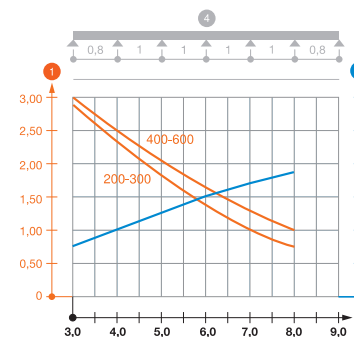


| | 5.0 m | 6.0 m | 7.0 m | 8.0 m |
|--------------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/m | kN/m |
| WKLG 1620 A4 | 1.8 | 1.4 | 1 | 0.7 |
| WKLG 1630 A4 | 1.8 | 1.4 | 1 | 0.7 |
| WKLG 1640 A4 | 2 | 1.6 | 1.3 | 1 |
| WKLG 1650 A4 | 2 | 1.6 | 1.3 | 1 |
| WKLG 1660 A4 | 2 | 1.6 | 1.3 | 1 |

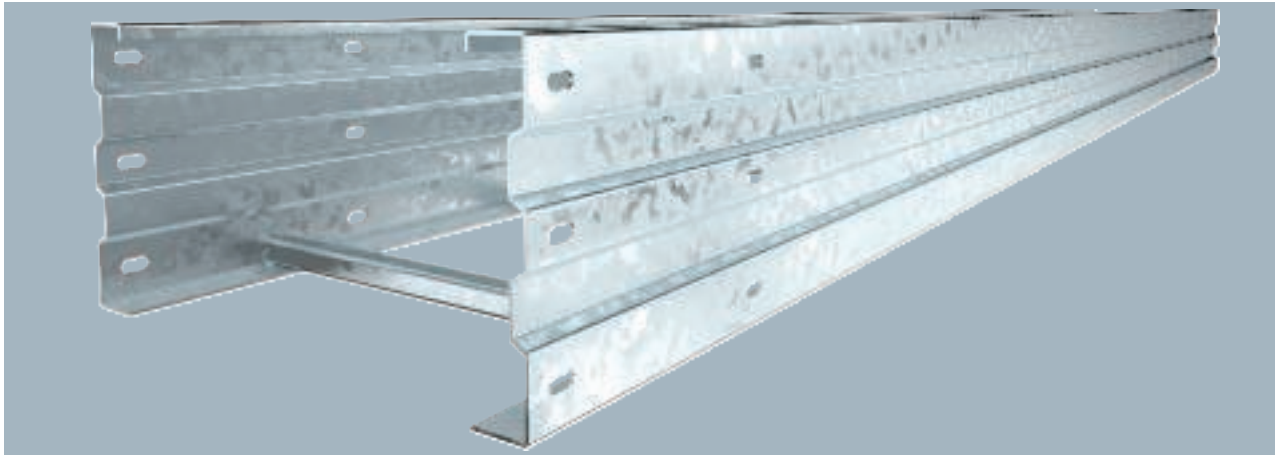
Load diagram, wide span cable ladder, type WKLG 160

- 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



WKL 200 wide span cable ladder

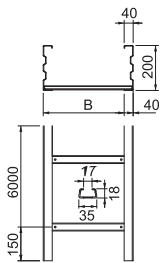


Straight connectors of type WRVL 200 should be ordered separately and in the appropriate quantity.

WKL 200 = Wide span cable ladder with 200 mm side height.

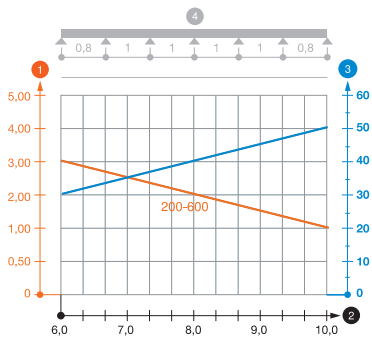
| Type | Width mm | Rail thickness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|----------|-------------------|--------|-----------------|----------|
| WKL 2020 FT | 200 | 2.5 | 6 | 1,320.000 | 6232102 |
| WKL 2030 FT | 300 | 2.5 | 6 | 1,358.334 | 6232104 |
| WKL 2040 FT | 400 | 2.5 | 6 | 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 |

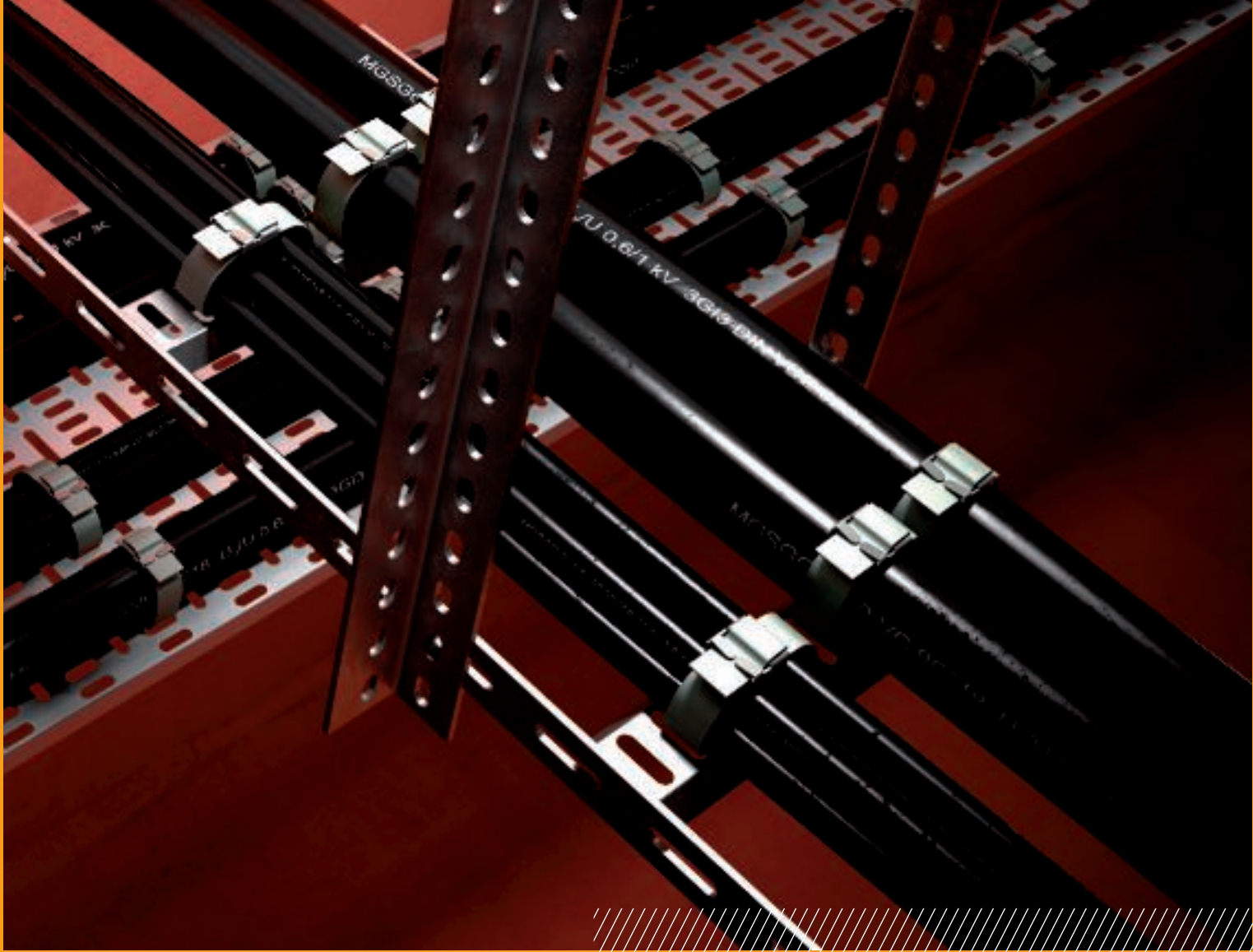
Load



| Type | 6.0 m kN/m | 7.0 m kN/m | 8.0 m kN/m | 9.0 m kN/m | 10.0 m kN/m |
|-------------|------------|------------|------------|------------|-------------|
| WKL 2020 FT | 3 | 2.5 | 2 | 1.4 | 1 |
| WKL 2030 FT | 3 | 2.5 | 2 | 1.4 | 1 |
| WKL 2040 FT | 3 | 2.5 | 2 | 1.4 | 1 |
| WKL 2050 FT | 3 | 2.5 | 2 | 1.4 | 1 |
| WKL 2060 FT | 3 | 2.5 | 2 | 1.4 | 1 |

Load diagram, wide span cable ladder, type WKL 200

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



Cable ladders, marine standard

Shipbuilding cable ladders with perforated side rail and with welded, perforated trapezoidal rungs which open in a downwards direction. Load tested according to IEC in conjunction with connector, type SLV.

G

FS

FT

A2

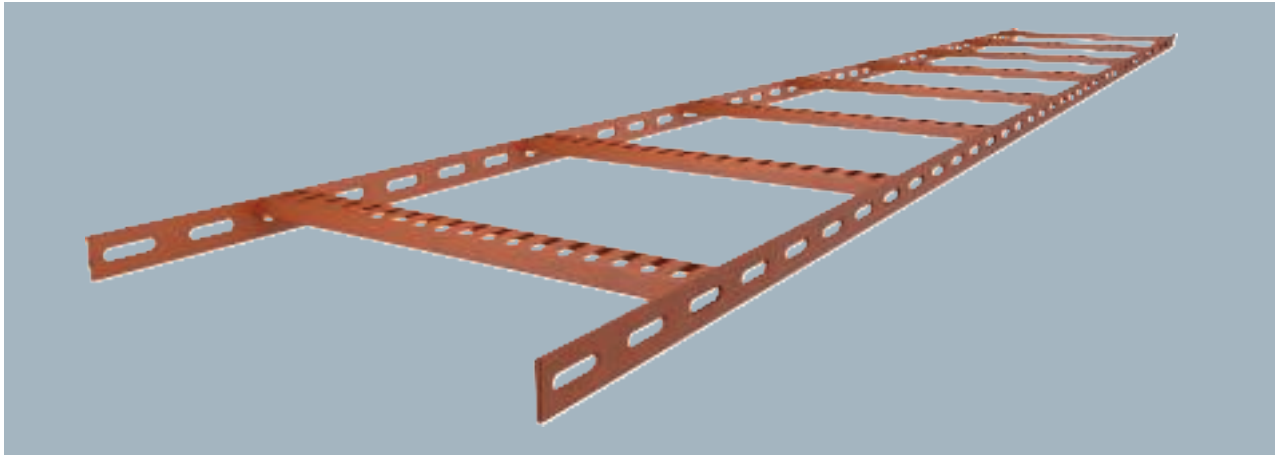
A4

Alu

St SG



Cable ladder with trapezoidal rung, 25

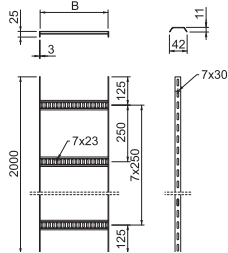


Shipbuilding cable ladder with perforated side rail of side height 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction. Load tested according to IEC in conjunction with connector, type SLV. Welding primer type SIGMA-WELD 199.

The shipbuilding cable ladder, including fittings, is also available in stainless steel on request. Powder coating according to RAL colours possible.

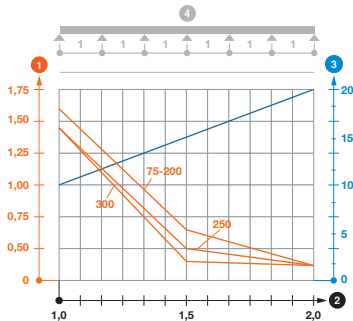
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|--------------|----------|--------|-----------------|----------|
| SL 42 075 SG | 75 | 2 | 109.000 | 7097026 |
| SL 42 100 SG | 100 | 2 | 112.500 | 7097034 |
| SL 42 150 SG | 150 | 2 | 119.000 | 7097042 |
| SL 42 200 SG | 200 | 2 | 125.500 | 7097050 |
| SL 42 250 SG | 250 | 2 | 132.000 | 7097069 |
| SL 42 300 SG | 300 | 2 | 139.000 | 7097077 |

Dimensions



| Type | Length mm | Dim. B mm | Side height mm | Rail thickness mm |
|--------------|-----------|-----------|----------------|-------------------|
| SL 42 075 SG | 2000 | 81 | 25 | 3 |
| SL 42 100 SG | 2000 | 106 | 25 | 3 |
| SL 42 150 SG | 2000 | 156 | 25 | 3 |
| SL 42 200 SG | 2000 | 206 | 25 | 3 |
| SL 42 250 SG | 2000 | 256 | 25 | 3 |
| SL 42 300 SG | 2000 | 306 | 25 | 3 |

Load



| Type | 1.5 m kN/m | 2.0 m kN/m |
|--------------|------------|------------|
| SL 42 075 SG | 0.5 | 0.36 |
| SL 42 100 SG | 0.5 | 0.36 |
| SL 42 150 SG | 0.5 | 0.36 |
| SL 42 200 SG | 0.5 | 0.36 |
| SL 42 250 SG | 0.5 | 0.36 |
| SL 42 300 SG | 0.5 | 0.36 |

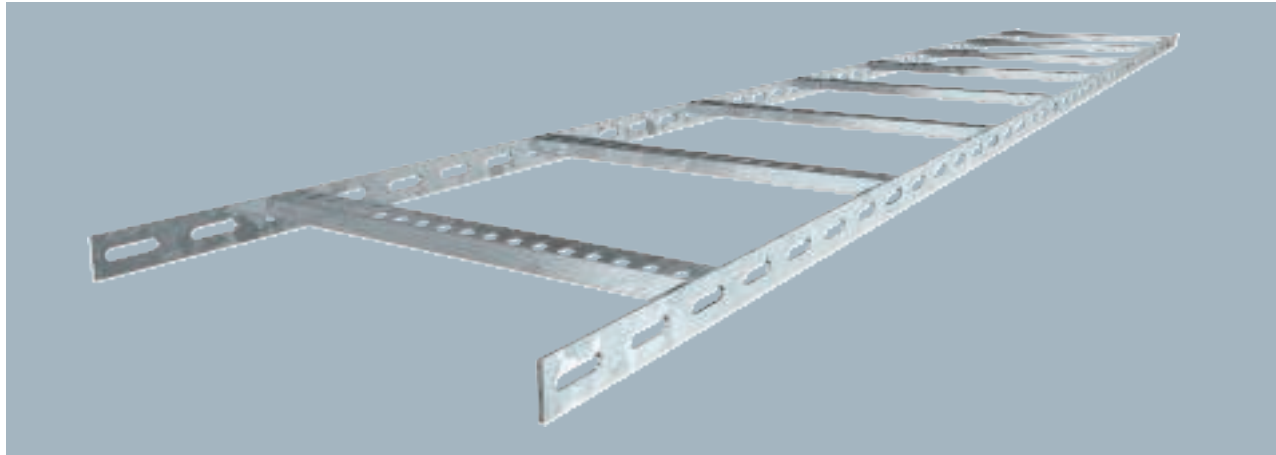
Load diagram, SL42 cable ladder

- 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



Cable ladder with trapezoidal rung, 25

St FT



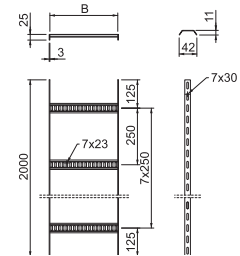
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|--------------|----------|--------|-----------------|----------|
| SL 42 075 FT | 75 | 2 | 114.000 | 7097115 |
| SL 42 100 FT | 100 | 2 | 118.000 | 7097123 |
| SL 42 150 FT | 150 | 2 | 125.000 | 7097131 |
| SL 42 200 FT | 200 | 2 | 132.500 | 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.

The shipbuilding cable ladder, including fittings, is also available in stainless steel on request. Powder coating according to RAL colours possible.

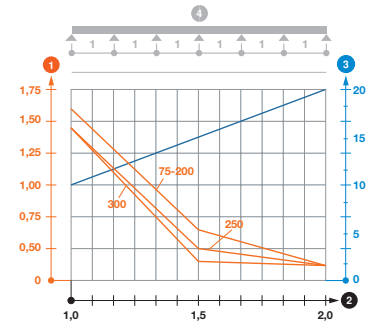
| Type | Length mm | Dim. B mm | Side height mm | Rail thickness mm |
|--------------|-----------|-----------|----------------|-------------------|
| SL 42 075 FT | 2000 | 81 | 25 | 3 |
| SL 42 100 FT | 2000 | 106 | 25 | 3 |
| SL 42 150 FT | 2000 | 156 | 25 | 3 |
| SL 42 200 FT | 2000 | 206 | 25 | 3 |
| 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



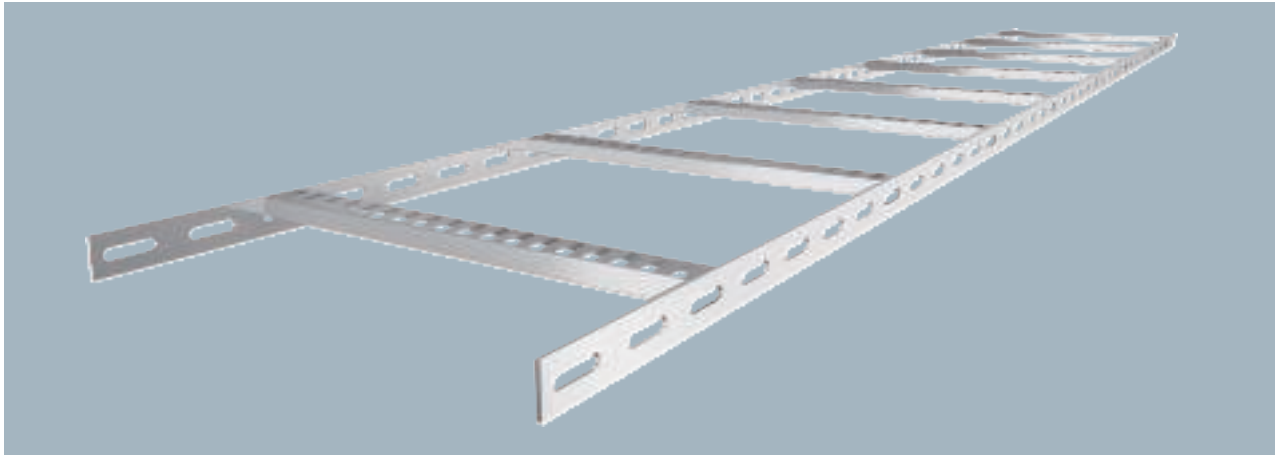
Load diagram, SL42 cable ladder

- 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

Alu GB



Cable ladder with trapezoidal rung, 25

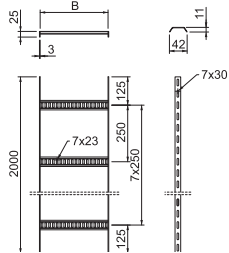


Shipbuilding cable ladder with perforated side rail of side height 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.

The shipbuilding cable ladder is also available in unpainted steel on request.

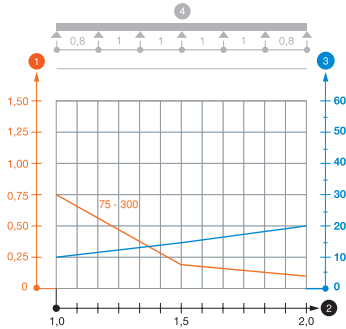
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---------------|-------------|-----------|--------------------|----------|
| SL 42 075 ALU | 75 | 2 | 41.000 | 7099722 |
| SL 42 100 ALU | 100 | 2 | 43.000 | 7099724 |
| SL 42 150 ALU | 150 | 2 | 47.500 | 7099726 |
| SL 42 200 ALU | 200 | 2 | 52.500 | 7099728 |
| SL 42 250 ALU | 250 | 2 | 57.000 | 7099730 |
| SL 42 300 ALU | 300 | 2 | 61.500 | 7099732 |

Dimensions



| 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 |

Load



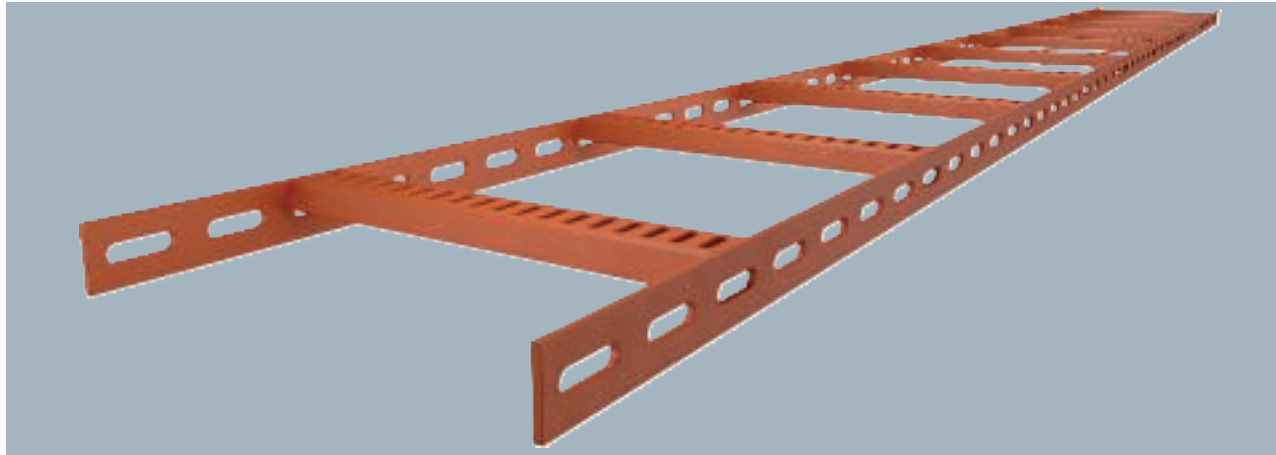
| Type | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m |
|---------------|---------------|---------------|---------------|
| SL 42 075 ALU | 0.75 | 0.2 | 0.1 |
| SL 42 100 ALU | 0.75 | 0.2 | 0.1 |
| SL 42 150 ALU | 0.75 | 0.2 | 0.1 |
| SL 42 200 ALU | 0.75 | 0.2 | 0.1 |
| SL 42 250 ALU | 0.75 | 0.2 | 0.1 |
| SL 42 300 ALU | 0.75 | 0.2 | 0.1 |

Load 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

Cable ladder with trapezoidal rung, 40

St SG

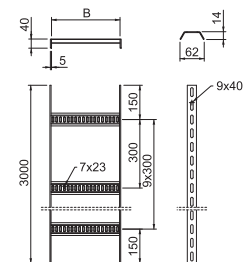


| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|--------------|-------------|-----------|--------------------|----------|
| SL 62 100 SG | 100 | 3 | 299.000 | 7097212 |
| SL 62 200 SG | 200 | 3 | 332.340 | 7097239 |
| SL 62 300 SG | 300 | 3 | 365.670 | 7097247 |
| SL 62 400 SG | 400 | 3 | 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.

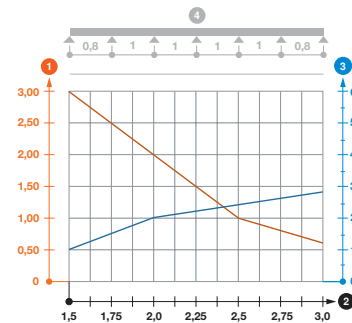
| Type | Length mm | Dim. B mm | Side height mm | Rail thickness mm |
|--------------|--------------|--------------|-------------------|----------------------|
| SL 62 100 SG | 3000 | 110 | 40 | 5 |
| SL 62 200 SG | 3000 | 210 | 40 | 5 |
| SL 62 300 SG | 3000 | 310 | 40 | 5 |
| SL 62 400 SG | 3000 | 410 | 40 | 5 |
| SL 62 500 SG | 3000 | 510 | 40 | 5 |
| SL 62 600 SG | 3000 | 610 | 40 | 5 |

Dimensions



| Type | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|--------------|---------------|---------------|---------------|---------------|
| SL 62 100 SG | 3 | 2 | 1 | 0.6 |
| SL 62 200 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



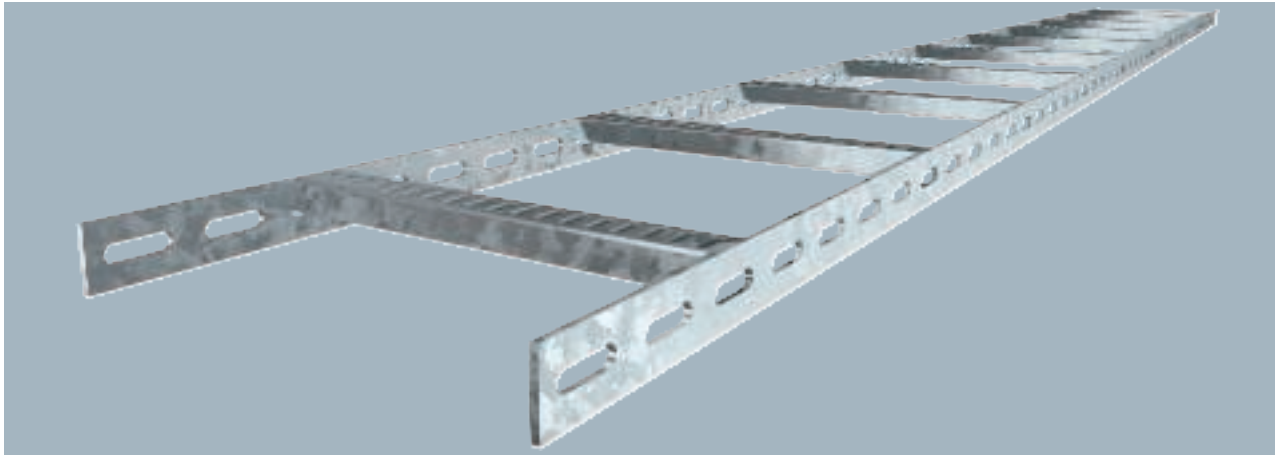
Load diagram, cable ladder SL62

- 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 FT



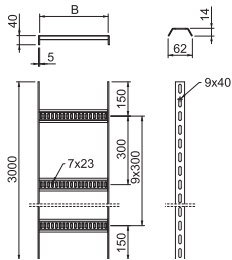
Cable ladder with trapezoidal rung, 40



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.

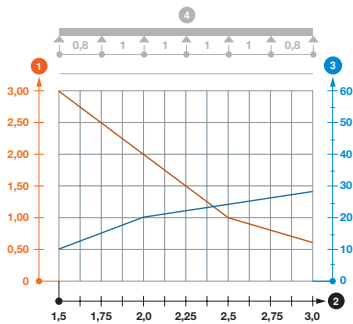
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|--------------|----------|--------|-----------------|----------|
| SL 62 100 FT | 100 | 3 | 307.300 | 7097409 |
| SL 62 150 FT | 150 | 3 | 325.000 | 7097417 |
| SL 62 200 FT | 200 | 3 | 342.700 | 7097425 |
| SL 62 300 FT | 300 | 3 | 378.000 | 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 |

Dimensions



| Type | Length mm | Dim. B mm | Side height mm | Rail thickness mm |
|--------------|-----------|-----------|----------------|-------------------|
| SL 62 100 FT | 3000 | 110 | 40 | 5 |
| SL 62 150 FT | 3000 | 160 | 40 | 5 |
| SL 62 200 FT | 3000 | 210 | 40 | 5 |
| SL 62 300 FT | 3000 | 310 | 40 | 5 |
| SL 62 400 FT | 3000 | 410 | 40 | 5 |
| SL 62 500 FT | 3000 | 510 | 40 | 5 |
| SL 62 600 FT | 3000 | 610 | 40 | 5 |

Load



| Type | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|--------------|------------|------------|------------|------------|
| SL 62 100 FT | 3 | 2 | 1 | 0.6 |
| SL 62 150 FT | 3 | 2 | 1 | 0.6 |
| SL 62 200 FT | 3 | 2 | 1 | 0.6 |
| SL 62 300 FT | 3 | 2 | 1 | 0.6 |
| SL 62 400 FT | 3 | 2 | 1 | 0.6 |
| SL 62 500 FT | 3 | 2 | 1 | 0.6 |
| SL 62 600 FT | 3 | 2 | 1 | 0.6 |

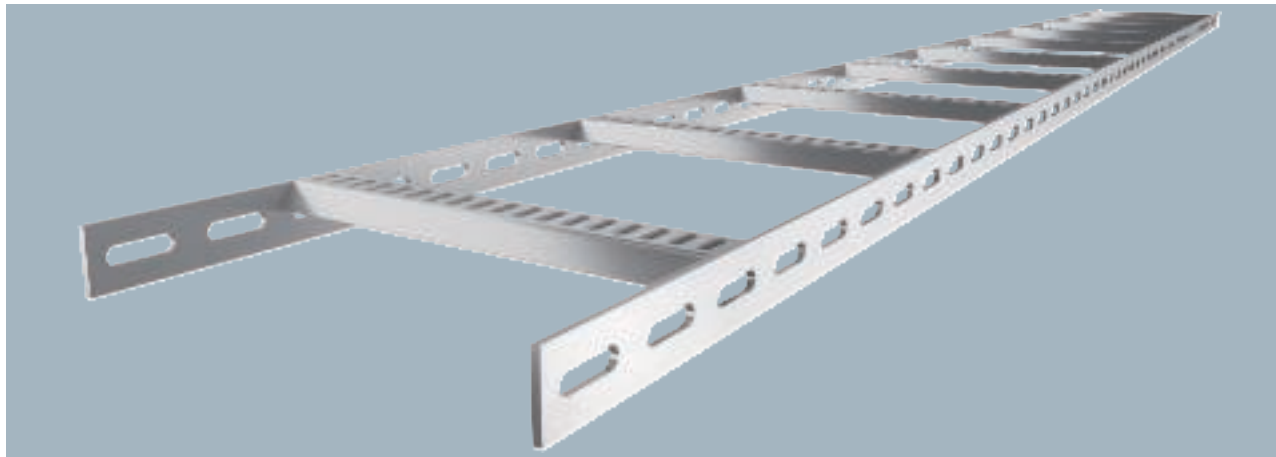
Load diagram, cable ladder SL62

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





Cable ladder with trapezoidal rung, 40

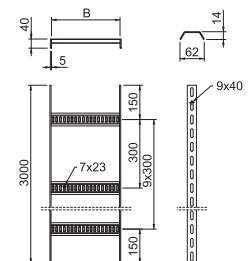


| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|---------------|-------------|-----------|--------------------|----------|
| SL 62 100 ALU | 100 | 3 | 99.800 | 7099752 |
| SL 62 200 ALU | 200 | 3 | 111.067 | 7099754 |
| SL 62 300 ALU | 300 | 3 | 122.300 | 7099756 |
| SL 62 400 ALU | 400 | 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.

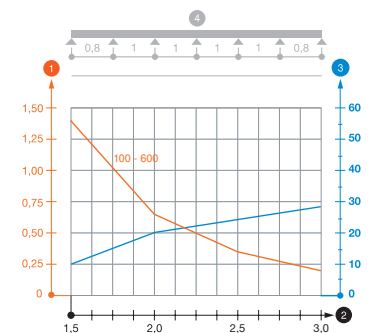
| Type | Length mm | Dim. B mm | Side height mm | Rail thick- ness mm |
|---------------|--------------|-----------------|----------------------|------------------------------|
| SL 62 100 ALU | 3000 | 110 | 40 | 5 |
| SL 62 200 ALU | 3000 | 210 | 40 | 5 |
| SL 62 300 ALU | 3000 | 310 | 40 | 5 |
| SL 62 400 ALU | 3000 | 410 | 40 | 5 |
| SL 62 500 ALU | 3000 | 510 | 40 | 5 |
| SL 62 600 ALU | 3000 | 610 | 40 | 5 |

Dimensions



| | 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



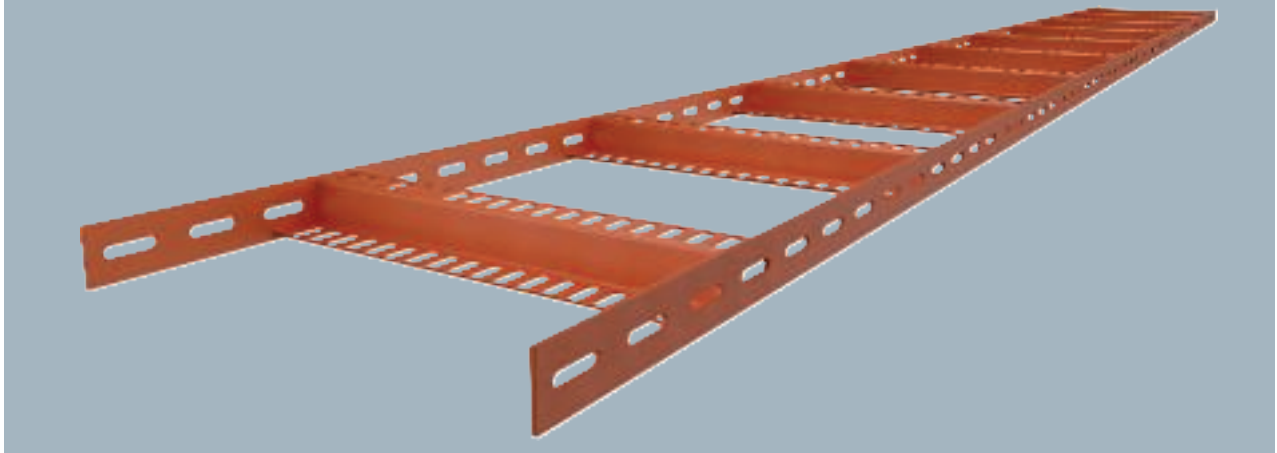
Load diagram, SL 62 cable ladder

- 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

St SG



Cable ladder with Z rung, 35

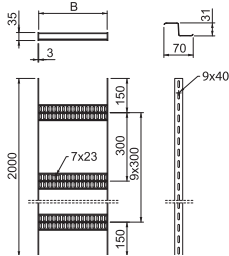


Light-duty shipbuilding cable ladder with perforated side rail of side height 35 mm with welded, perforated Z rungs. Load tested according to IEC in conjunction with connector, type SLV. Welding primer type SIGMA-WELD 199, also available in white.

The shipbuilding cable ladder, including fittings, is also available in stainless steel on request. Powder coating according to RAL colours possible.

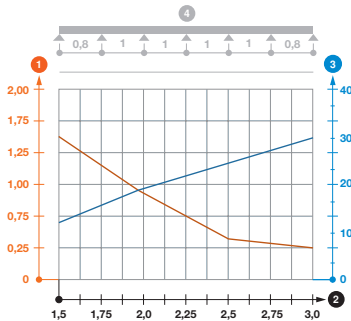
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|--------------|----------|--------|-----------------|----------|
| SLZ L 100 SG | 100 | 3 | 167.000 | 7098032 |
| SLZ L 200 SG | 200 | 3 | 187.667 | 7098036 |
| SLZ L 300 SG | 300 | 3 | 208.667 | 7098038 |
| SLZ L 400 SG | 400 | 3 | 229.334 | 7098040 |
| SLZ L 500 SG | 500 | 3 | 250.000 | 7098042 |
| SLZ L 600 SG | 600 | 3 | 270.667 | 7098044 |

Dimensions



| Type | Length mm | Dim. B mm | Side height mm | Rail thickness 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 |

Load



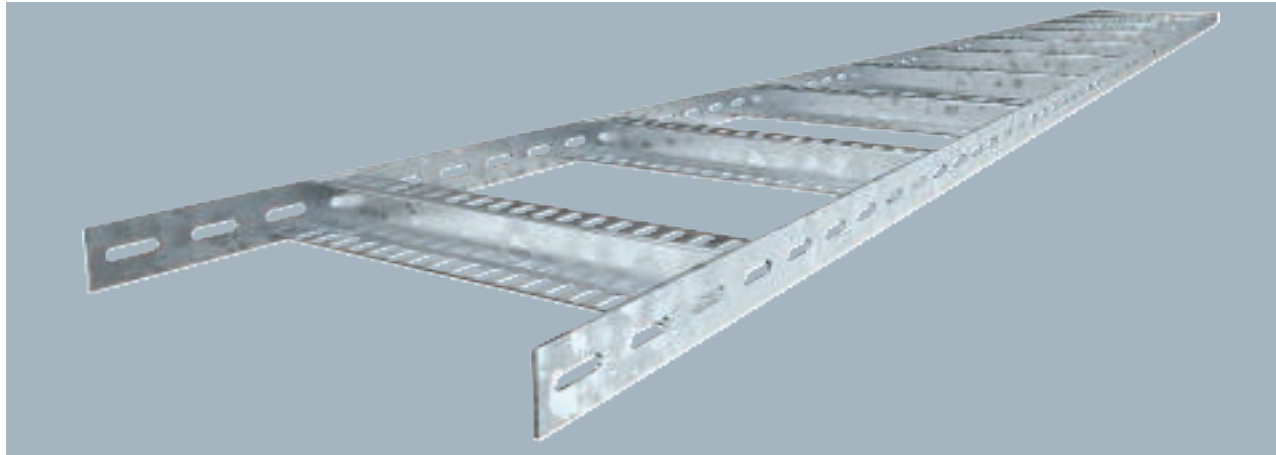
| Type | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|--------------|------------|------------|------------|------------|
| SLZ L 100 SG | 1.5 | 0.85 | 0.35 | 0.25 |
| SLZ L 200 SG | 1.5 | 0.85 | 0.35 | 0.25 |
| SLZ L 300 SG | 1.5 | 0.85 | 0.35 | 0.25 |
| SLZ L 400 SG | 1.5 | 0.85 | 0.35 | 0.25 |
| SLZ L 500 SG | 1.5 | 0.85 | 0.35 | 0.25 |
| SLZ L 600 SG | 1.5 | 0.85 | 0.35 | 0.25 |

Load diagram, cable ladder SLZ L

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



Cable ladder with Z rung, 35



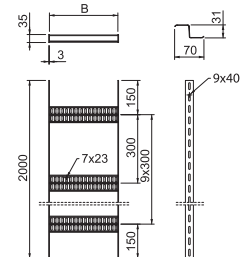
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|--------------|-------------|-----------|--------------------|----------|
| SLZ L 100 FT | 100 | 3 | 175.334 | 7098002 |
| SLZ L 200 FT | 200 | 3 | 198.334 | 7098006 |
| SLZ L 300 FT | 300 | 3 | 221.667 | 7098008 |
| SLZ L 400 FT | 400 | 3 | 245.000 | 7098010 |
| SLZ L 500 FT | 500 | 3 | 268.334 | 7098012 |
| SLZ L 600 FT | 600 | 3 | 291.667 | 7098014 |

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.

The shipbuilding cable ladder, including fittings, is also available in stainless steel on request. Powder coating according to RAL colours possible.

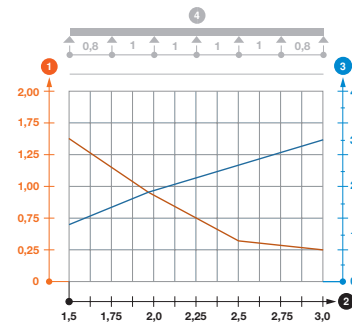
| Type | Length mm | Dim. B mm | Side height mm | Rail thickness mm |
|--------------|--------------|--------------|-------------------|----------------------|
| SLZ L 100 FT | 3000 | 106 | 35 | 3 |
| SLZ L 200 FT | 3000 | 206 | 35 | 3 |
| SLZ L 300 FT | 3000 | 306 | 35 | 3 |
| SLZ L 400 FT | 3000 | 406 | 35 | 3 |
| SLZ L 500 FT | 3000 | 506 | 35 | 3 |
| SLZ L 600 FT | 3000 | 606 | 35 | 3 |

Dimensions



| | 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



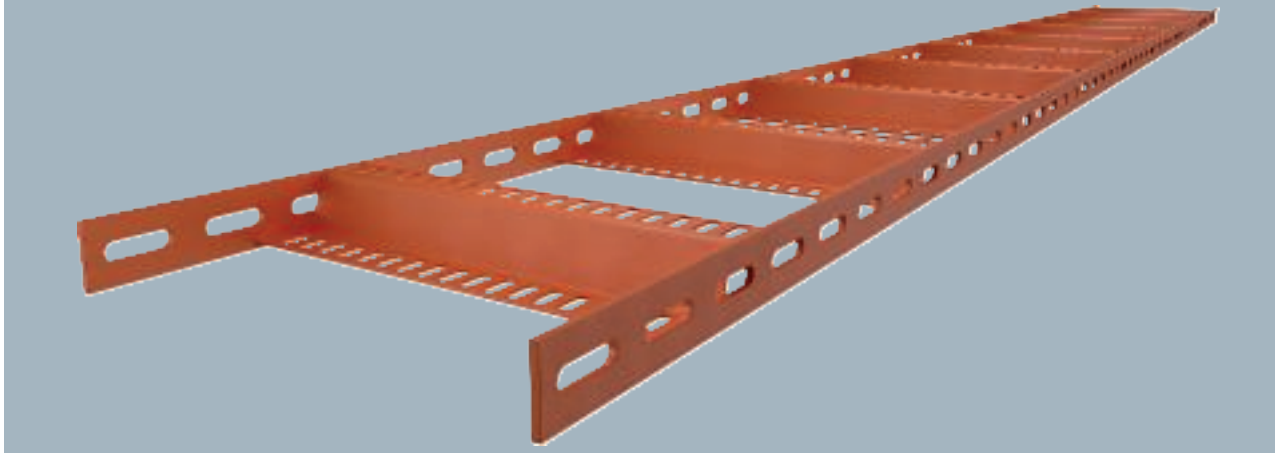
Load diagram, cable ladder SLZ L

- 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 SG



Cable ladder with Z rung, 40

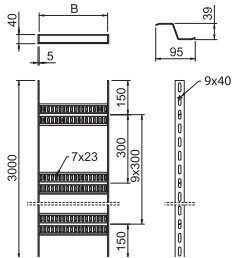


Shipbuilding cable ladder with perforated side rail of side height 40 mm with welded, perforated Z rungs. Load tested according to IEC in conjunction with connector, type SLV. Welding primer type SIGMA-WELD 199, also available in white.

The shipping cable ladder, including fittings, is also available in stainless steel on request. Powder coating according to RAL colours possible.

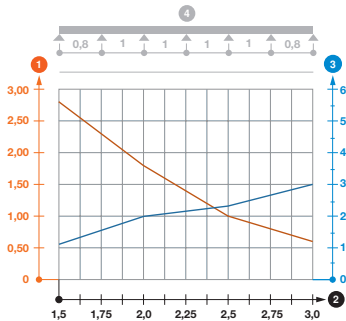
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|------------|-------------|-----------|--------------------|----------|
| SLZ 100 SG | 100 | 3 | 319.000 | 7098162 |
| SLZ 200 SG | 200 | 3 | 372.334 | 7098164 |
| SLZ 300 SG | 300 | 3 | 425.667 | 7098166 |
| SLZ 400 SG | 400 | 3 | 479.000 | 7098168 |
| SLZ 500 SG | 500 | 3 | 532.333 | 7098170 |
| SLZ 600 SG | 600 | 3 | 585.667 | 7098172 |

Dimensions



| 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 |

Load



| Type | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|------------|---------------|---------------|---------------|---------------|
| SLZ 100 SG | 2.8 | 1.75 | 1 | 0.6 |
| SLZ 200 SG | 2.8 | 1.75 | 1 | 0.6 |
| SLZ 300 SG | 2.8 | 1.75 | 1 | 0.6 |
| SLZ 400 SG | 2.8 | 1.75 | 1 | 0.6 |
| SLZ 500 SG | 2.8 | 1.75 | 1 | 0.6 |
| SLZ 600 SG | 2.8 | 1.75 | 1 | 0.6 |

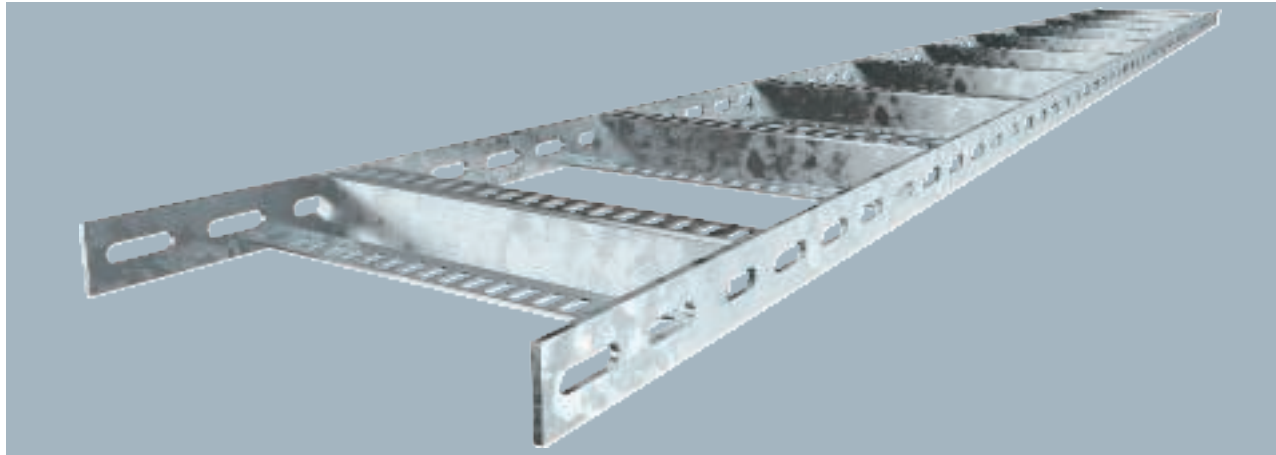
Load diagram, cable ladder SLZ

- 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



Cable ladder with Z rung, 40

St FT



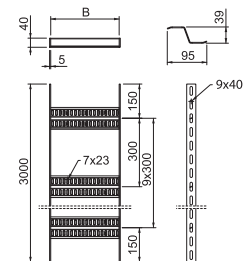
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|------------|----------|--------|-----------------|----------|
| SLZ 100 FT | 100 | 3 | 328.667 | 7098132 |
| SLZ 150 FT | 150 | 3 | 357.000 | 7098133 |
| SLZ 200 FT | 200 | 3 | 385.334 | 7098134 |
| SLZ 300 FT | 300 | 3 | 441.667 | 7098136 |
| 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.

The shipbuilding cable ladder, including fittings, is also available in stainless steel on request. Powder coating according to RAL colours possible.

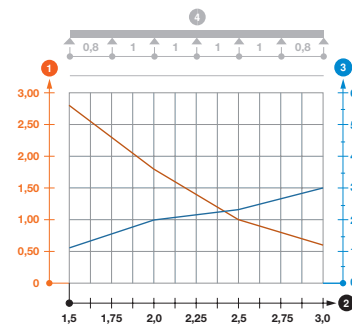
| Type | Length mm | Dim. B mm | Side height mm | Rail thickness mm |
|------------|-----------|-----------|----------------|-------------------|
| SLZ 100 FT | 3000 | 110 | 40 | 5 |
| SLZ 150 FT | 3000 | 160 | 40 | 5 |
| SLZ 200 FT | 3000 | 210 | 40 | 5 |
| SLZ 300 FT | 3000 | 310 | 40 | 5 |
| SLZ 400 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



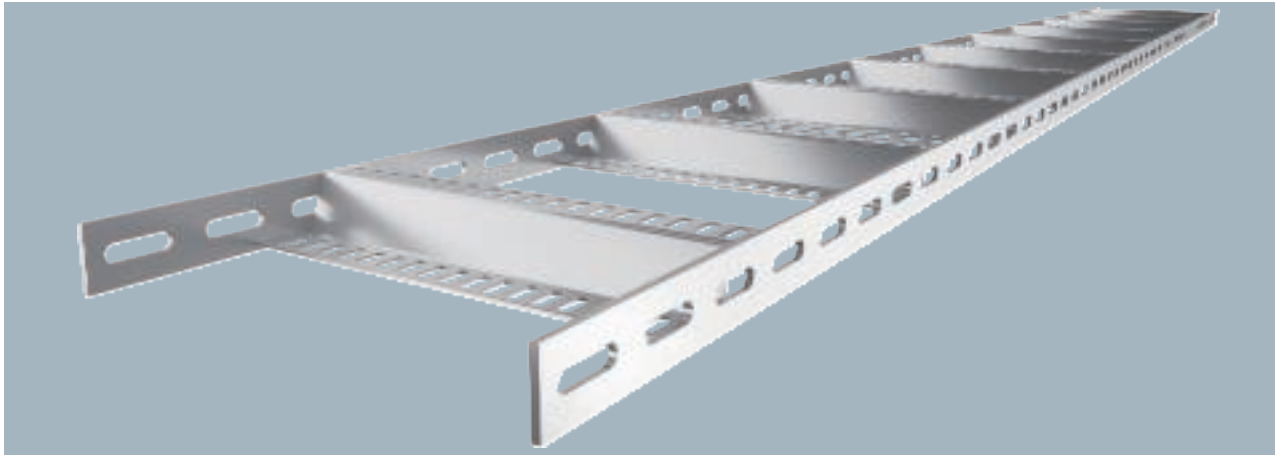
Load diagram, cable ladder SLZ

- 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

Alu GB



Cable ladder with Z rung, 40

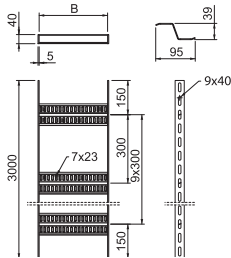


Shipbuilding cable ladder with perforated side rail of side height 40 mm with welded, perforated Z rungs.

The shipbuilding cable ladder, including fittings, is also available in stainless steel on request. Powder coating according to RAL colours possible.

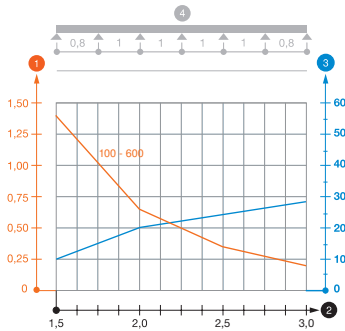
| Type | Width mm | Pack m | Weight kg/100 m | Item no. |
|-------------|-------------|-----------|--------------------|----------|
| SLZ 100 ALU | 100 | 3 | 106.600 | 7099772 |
| SLZ 200 ALU | 200 | 3 | 124.667 | 7099774 |
| SLZ 300 ALU | 300 | 3 | 142.734 | 7099776 |
| SLZ 400 ALU | 400 | 3 | 160.767 | 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 thick- ness 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



| Type | 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





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

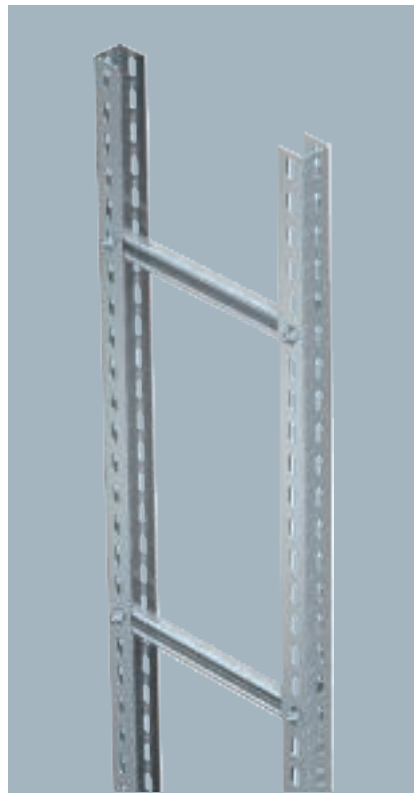
Installation principle



| | | |
|---|----------------------------------|---------|
| 1 | Light-duty vertical ladder | LG |
| 2 | Heavy-duty vertical ladder | SLM 50 |
| 3 | Industrial vertical cable ladder | SLS 80 |
| 4 | Cover with spacer | DRL FAM |
| 5 | Rung seat with MS4022 rung | MS4022 |



Heavy-duty vertical cable ladder SLM 50, 3 m C40

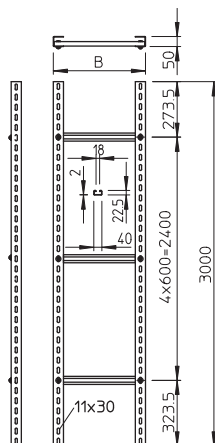


| Type | Width mm | Rail thickness mm | Pack m | Weight kg/100 m | Item no. |
|------------------|----------|-------------------|--------|-----------------|----------|
| SLM 50 C40 2 FT | 200 | 2.5 | 3 | 572.500 | 6010466 |
| SLM 50 C40 3 FT | 300 | 2.5 | 3 | 600.167 | 6010474 |
| SLM 50 C40 4 FT | 400 | 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



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 |



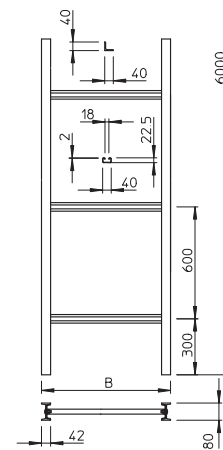
Vertical ladder of side height 80 mm with screwed-in rungs.

The vertical ladder is shipped in an unmounted state.

The appropriate clamp clip is type 2056U.

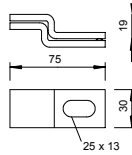
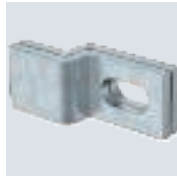
| Type | Length mm | Dim. B mm | Rung spacing mm |
|------------------|-----------|-----------|-----------------|
| SLS 80 C40 2 FT | 6000 | 200 | 600 |
| SLS 80 C40 3 FT | 6000 | 300 | 600 |
| SLS 80 C40 4 FT | 6000 | 400 | 600 |
| SLS 80 C40 5 FT | 6000 | 500 | 600 |
| SLS 80 C40 6 FT | 6000 | 600 | 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



Wall bracket

St FT

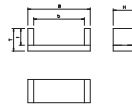


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------------|------------|-------------------|----------------|
| WB 30 75 FT | 10 | 18.100 | 6019617 |

Wall bracket for fastening vertical ladders to concrete walls and masonry.

Effective support, function maintenance

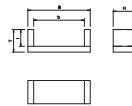
Strain relief on three sides, with mineral wool, internal height 115 mm



| 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 on three sides, with mineral wool, internal 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 |

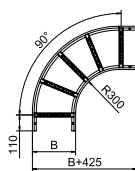
Strain relief as an effective support measure for vertical cable routing, according to DIN 4102 part 12, approved for all cable types and all vertical routing systems. Maintenance of electrical function classes E30 to E90. Housing including mineral fibre panels, fastening material, ASX fire protection coating in cartridge and identification plate.



Horizontal bends

90° bend 60

St FS FT

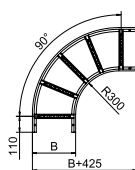


| Type | Dim. B mm | Rail thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------------|-----------|-------------------|------------|-------------------|----------|
| LB 90 620 R3 FS | 200 | 1.5 | 1 | 254.500 | 6225042 |
| LB 90 630 R3 FS | 300 | 1.5 | 1 | 318.300 | 6225044 |
| LB 90 640 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.

90° bend 60

VA VA 2B

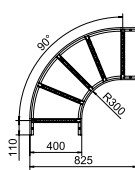


| Type | Dim. B mm | Rail thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------------|-----------|-------------------|------------|-------------------|----------|
| LB 90 620 R3 A2 | 200 | 1.5 | 1 | 257.800 | 6225082 |
| LB 90 630 R3 A2 | 300 | 1.5 | 1 | 322.300 | 6225084 |
| LB 90 640 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 110

St FS FT



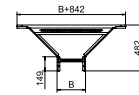
| Type | Dim. B mm | Rail thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|-----------|-------------------|------------|-------------------|----------|
| LB 90 1120 R3 FS | 200 | 1.5 | 1 | 355.300 | 6225122 |
| LB 90 1130 R3 FS | 300 | 1.5 | 1 | 428.300 | 6225124 |
| LB 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.

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 |

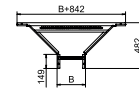


Mounting/branch with welded rung for use in the cable ladder types with a side height of 60 mm. Connectors should be ordered separately and in the appropriate quantity.

St FS FT

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 |



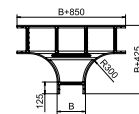
Add-on tee with welded rung for all cable ladder types of 110 mm side height. Connectors should be ordered separately and in the appropriate quantity.

T pieces

St FS FT

T piece 60

| 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 |



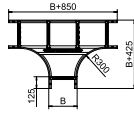
T piece, horizontal, with welded rung for all cable ladder types of 60 mm side height. Connectors should be ordered separately and in the appropriate quantity.



T pieces

T piece 60

VA VA 2B

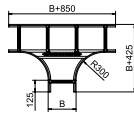
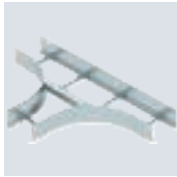


| Type | Dim. B mm | Rail thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|-----------|-------------------|------------|-------------------|----------|
| LT 620 R3 A2 | 200 | 1.5 | 1 | 474.600 | 6225250 |
| LT 630 R3 A2 | 300 | 1.5 | 1 | 537.800 | 6225252 |
| LT 640 R3 A2 | 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 110

St FS FT



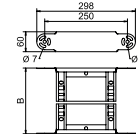
| Type | Dim. B mm | Rail thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|-----------|-------------------|------------|-------------------|----------|
| LT 1120 R3 FS | 200 | 1.5 | 1 | 611.800 | 6225290 |
| LT 1130 R3 FS | 300 | 1.5 | 1 | 680.000 | 6225292 |
| LT 1140 R3 FS | 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 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 |



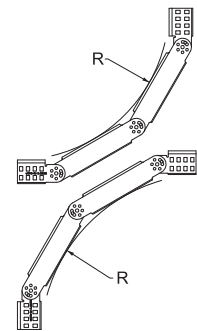
Adjustable bend element with welded rung for use in the cable ladder types with a side height of 60 mm.

Radius table

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

Please order two LGVG 60 adjustable connectors separately.

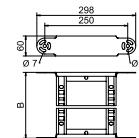
Installation



VA 2B

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 |



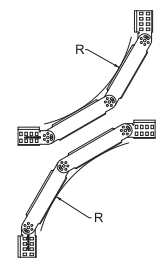
Adjustable bend element with welded rung for use in cable ladder types with a side height of 60 mm.

Radius table

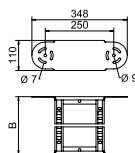
| Quantity of elements | Radius |
|----------------------|----------------|
| 1 | approx. 300 mm |
| 2 | approx. 450 mm |
| 3 | approx. 600 mm |
| 4 | approx. 750 mm |
| 5 | approx. 900 mm |

Please order two LGVG 60 adjustable connectors separately.

Installation



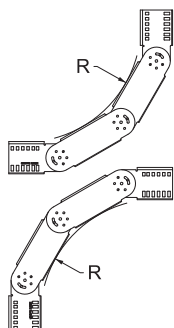
Adjustable bend element 110



| 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.

Installation



Radius table

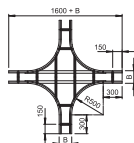
| Quantity of elements | Radius |
|----------------------|----------------|
| 1 | approx. 300 mm |
| 2 | approx. 450 mm |
| 3 | approx. 600 mm |
| 4 | approx. 750 mm |
| 5 | approx. 900 mm |

Please order two LGVG 110 articulated connectors separately.



Cross-over 110

St FT



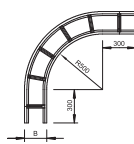
| Type | Dim. B mm | Rail thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|-----------|-------------------|------------|-------------------|----------|
| WLK 1120 FT | 200 | 2 | 1 | 2,623.200 | 6312934 |
| WLK 1130 FT | 300 | 2 | 1 | 2,850.600 | 6312942 |
| WLK 1140 FT | 400 | 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.

Horizontal bends, wide span cable ladders

90° bend 110

St FS FT

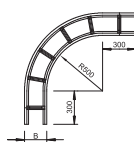


| Type | Dim. B mm | Rail thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|-----------|-------------------|------------|-------------------|----------|
| WLB 90 112 FS | 200 | 2 | 1 | 881.800 | 6312330 |
| WLB 90 113 FS | 300 | 2 | 1 | 971.000 | 6312349 |
| WLB 90 114 FS | 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.

90° bend 160

St FS FT



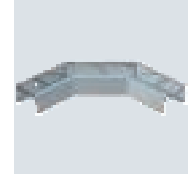
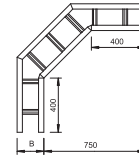
| Type | Dim. B mm | Rail thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|-----------|-------------------|------------|-------------------|----------|
| WLB 90 162 FS | 200 | 2 | 1 | 1,145.000 | 6229336 |
| WLB 90 163 FS | 300 | 2 | 1 | 1,250.000 | 6229344 |
| WLB 90 164 FS | 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.

St FT

90° bend 200

| Type | Dim. B mm | Rail thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|-----------|-------------------|------------|-------------------|----------|
| WLB 90 2020 FT | 200 | 2.5 | 1 | 1,881.000 | 6233422 |
| WLB 90 2030 FT | 300 | 2.5 | 1 | 2,060.000 | 6233430 |
| WLB 90 2040 FT | 400 | 2.5 | 1 | 2,241.000 | 6233449 |
| WLB 90 2050 FT | 500 | 2.5 | 1 | 2,421.000 | 6233457 |
| WLB 90 2060 FT | 600 | 2.5 | 1 | 2,600.000 | 6233465 |



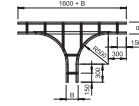
For further stabilisation, additional supports should be planned for the area of the fittings.
90° bend, horizontal, for all wide span cable ladders of 200 mm side height.

T pieces, wide span cable ladders

St FS FT

T branch piece 110

| 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 |

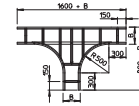


For further stabilisation, additional supports should be planned for the area of the fittings.
Horizontal T branch piece, for all wide span cable ladders of 110 mm side height.

St VA FT 2B

T branch piece 160

| Type | Dim. B mm | Rail thickness 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 |
| 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 |

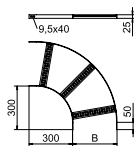
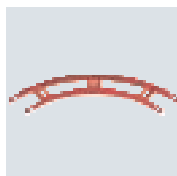


For further stabilisation, additional supports should be planned for the area of the fittings.
Horizontal T branch piece, for all wide span cable ladders of 160 mm side height.



90° bend with trapezoidal rung, 25

St SG



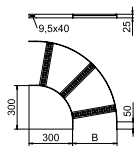
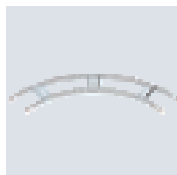
| Type | Width mm | Rail thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|----------|-------------------|------------|-------------------|----------|
| SLB 90 42 075 SG | 75 | 3 | 1 | 70.600 | 7098500 |
| SLB 90 42 100 SG | 100 | 3 | 1 | 75.800 | 7098502 |
| SLB 90 42 150 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.

90° bend with trapezoidal rung, 25

St FT



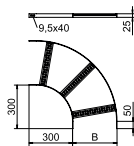
| Type | Width mm | Rail thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|----------|-------------------|------------|-------------------|----------|
| SLB 90 42 075 FT | 75 | 3 | 1 | 73.800 | 7098614 |
| SLB 90 42 100 FT | 100 | 3 | 1 | 80.000 | 7098618 |
| SLB 90 42 150 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.

90° bend with trapezoidal rung, 25

Alu GB



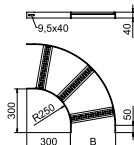
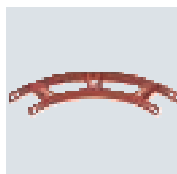
| Type | Width mm | Rail thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|----------|-------------------|------------|-------------------|----------|
| SLB 90 42 075ALU | 75 | 3 | 1 | 27.000 | 7098684 |
| SLB 90 42 100ALU | 100 | 3 | 1 | 29.500 | 7098686 |
| SLB 90 42 150ALU | 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.

90° bend with trapezoidal rung, 40

St SG



| Type | Width mm | Rail thickness 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 |

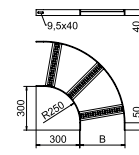
Connectors should be ordered separately and in the appropriate quantity.

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.

St FT

90° bend with trapezoidal rung, 40

| Type | Width mm | Rail thickness 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 |



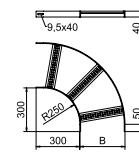
Connectors should be ordered separately and in the appropriate quantity.

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.

Alu GB

90° bend with trapezoidal rung, 40

| Type | Width mm | Rail thickness 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 |



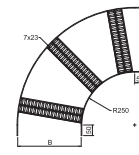
Connectors should be ordered separately and in the appropriate quantity.

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.

St SG

90° bend with Z rung, 35

| Type | Width mm | Rail thickness 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 |



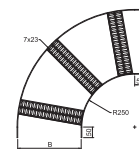
Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, type SLZ L, with side height of 35 mm with welded, perforated Z rungs.

St FT

90° bend with Z rung, 35

| Type | Width mm | Rail thickness 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 |



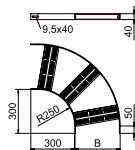
Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, type SLZ L, with side height of 35 mm with welded, perforated Z rungs.



90° bend with Z rung, 40

St SG

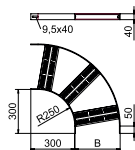
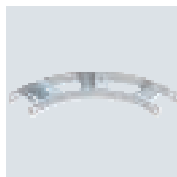


| Type | Width mm | Rail thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|----------|-------------------|------------|-------------------|----------|
| SLZB 90 100 SG | 100 | 5 | 1 | 222.200 | 7098976 |
| SLZB 90 200 SG | 200 | 5 | 1 | 295.100 | 7098978 |
| SLZB 90 300 SG | 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.

90° bend with Z rung, 40

St FT

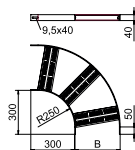


| Type | Width mm | Rail thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|----------|-------------------|------------|-------------------|----------|
| SLZB 90 100 FT | 100 | 5 | 1 | 228.900 | 7099000 |
| SLZB 90 200 FT | 200 | 5 | 1 | 306.000 | 7099002 |
| SLZB 90 400 FT | 400 | 5 | 1 | 458.000 | 7099006 |
| 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.

90° bend with Z rung, 40

Alu GB



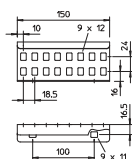
| Type | Width mm | Rail thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------------|----------|-------------------|------------|-------------------|----------|
| SLZB 90 100 ALU | 100 | 5 | 1 | 75.800 | 7099090 |
| SLZB 90 200 ALU | 200 | 5 | 1 | 100.400 | 7099092 |
| SLZB 90 300 ALU | 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.



Straight connector 60

St FS FT



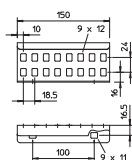
| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|----------------|------------|-------------------|----------|
| LVG 60 FS | 60 | 10 | 22.000 | 6208840 |
| LVG 60 FT | 60 | 10 | 23.000 | 6208843 |

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.

Straight connector 60

VA VA 2B



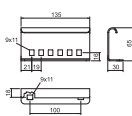
| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|----------------|------------|-------------------|----------|
| LVG 60 A2 | 60 | 10 | 22.000 | 6208846 |
| LVG 60 A4 | 60 | 10 | 20.000 | 6208835 |

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.

AVL 60 external connector

St FS FT

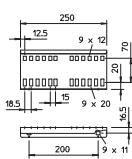


| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|----------------|------------|-------------------|----------|
| AVL 60 FS | 60 | 10 | 23.200 | 6208770 |
| AVL 60 FT | 60 | 10 | 23.400 | 6208778 |

External connector for mechanical connection of cable ladder sections for routing types with cable ladders for the maintenance of electrical function to DIN 4102 Part 12. Including bolts.

LVG 110 straight connector

St FS FT



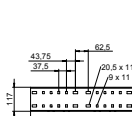
| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|----------------|------------|-------------------|----------|
| LVG 110 FS | 110 | 10 | 50.900 | 6216545 |
| LVG 110 FT | 110 | 10 | 53.700 | 6216548 |

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.

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 |

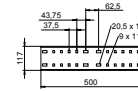
Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 110 mm.

Including appropriate bolts, washers and nuts.

VA VA 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 |



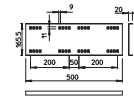
Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 110 mm.

Including appropriate bolts, washers and nuts.

St FS 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 |



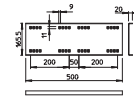
Straight connector for the connection of wide span cable trays and ladders of types WKSG and WKLG with a side height of 160 mm.

Including appropriate bolts, washers and nuts.

VA VA 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 |



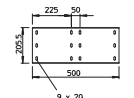
Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 160 mm.

Including appropriate bolts, washers and nuts.

St FT

Straight connector 200

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|----------------|------------|-------------------|----------|
| WRV 200 FT | 200 | 4 | 320.000 | 6232507 |



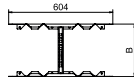
Straight connector for connections of wide span cable ladders and fittings with a side height of 200 mm.

Including appropriate bolts, washers and nuts.



Multifunctional connector 60

St FS FT

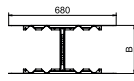


| Type | Dim. B mm | Side height mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|-----------|----------------|--------------------|------------|-------------------|----------|
| LMFV 620 FS | 200 | 60 | 1.50 | 1 | 123.200 | 6225710 |
| LMFV 630 FS | 300 | 60 | 1.50 | 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.

Multifunctional connector 110

St FS FT



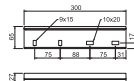
| Type | Dim. B mm | Side height mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|-----------|----------------|--------------------|------------|-------------------|----------|
| LMFV 1120 FS | 200 | 110 | 1.50 | 1 | 208.100 | 6225750 |
| LMFV 1130 FS | 300 | 110 | 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 for expansion

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.

Installation

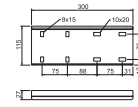
Positioning of expansion connectors

| Metal temperature difference | Maximum spacing between expansion connectors |
|------------------------------|--|
| 10°C | 70 metres |
| 25°C | 47 metres |
| 40°C | 35 metres |
| 50°C | 28 metres |
| 65°C | 23 metres |
| 80°C | 20 metres |

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.

Positioning of expansion connectors

| Metal temperature difference | Maximum spacing between expansion connectors |
|------------------------------|--|
| 10 °C | 70 metres |
| 25 °C | 47 metres |
| 40 °C | 35 metres |
| 50 °C | 28 metres |
| 65 °C | 23 metres |
| 80 °C | 20 metres |

Further information can be found in our mounting instruction.

Installation

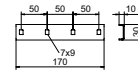
Connector, marine standard

St FT

Connector 25

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------|-------------------|----------|
| SLV 42 FT | 20 | 11.900 | 7103540 |

Straight connector to connect cable ladders and fittings with a side height of 25 mm.

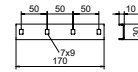


Alu

Connector 25

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|------------|-------------------|----------|
| SLV 42 ALU | 20 | 4.951 | 7103552 |

Straight connector to connect cable ladders and fittings with a side height of 25 mm.

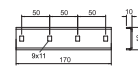


St FT

Straight connector

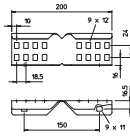
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------|-------------------|----------|
| SLV 52 FT | 10 | 14.700 | 7103532 |

The bolt fastening ensures the continuity of the equipotential bonding.



Angle connector 60

St FS

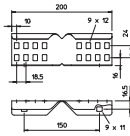


| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|----------------|------------|-------------------|----------|
| LWVG 60 FS | 60 | 10 | 24.000 | 6208895 |

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

VA VA 2B

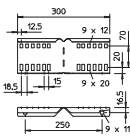


| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|----------------|------------|-------------------|----------|
| LWVG 60 A2 | 60 | 10 | 24.000 | 6208898 |
| LWVG 60 A4 | 60 | 10 | 24.256 | 6208891 |

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 110

St FS

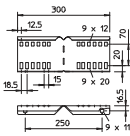


| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|----------------|------------|-------------------|----------|
| LWVG 110 FS | 110 | 10 | 48.800 | 6216587 |

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.

Angle connector 110

VA 2B

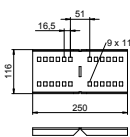


| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|----------------|------------|-------------------|----------|
| LWVG 110 A2 | 110 | 10 | 48.800 | 6216590 |

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.

Angle connector 110

St FS



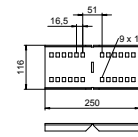
| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|----------------|------------|-------------------|----------|
| WRWVK 110 FS | 110 | 2 | 83.800 | 6091377 |

Including appropriate bolts, washers and nuts.
Angle connector for wide span cable trays and ladders with a side height of 110 mm.

VA VA 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 |

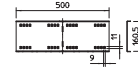


Including appropriate bolts, washers and nuts.
Angle connector for wide span cable trays and ladders with a side height of 110 mm.

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 |

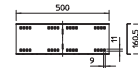


Including appropriate bolts, washers and nuts.
Angle connector for wide span cable trays and ladders with a side height of 160 mm.

VA 2B

Angle connector 160

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|----------------|------------|-------------------|----------|
| WRWVK 160 A2 | 160 | 2 | 199.800 | 6227836 |

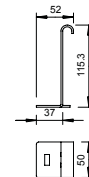


Including appropriate bolts, washers and nuts.
Angle connector for wide span cable trays and ladders with a side height of 160 mm.

VA 2B

Connector 110

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|------------|-------------------|----------|
| LAS 110 A2 | 1 | 18.000 | 6221432 |

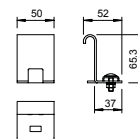


Connector for creation of branches at the same height at a later date.
To increase the cable supporting surface, use a conjunction of corner plates of type LEB.

St FS FT

Connection piece 60

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------|-------------------|----------|
| LAS 60 FS | 10 | 13.000 | 6221351 |
| LAS 60 FT | 10 | 13.600 | 6221378 |



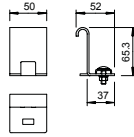
Connector for creation of branches at the same height at a later date.
To increase the cable supporting surface, use a conjunction of corner plates of type LEB.



Angle connector

Connector 60

VA 2B

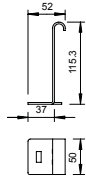


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------|-------------------|----------|
| LAS 60 A2 | 10 | 13.000 | 6221386 |

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.

Connector 110

St FS FT

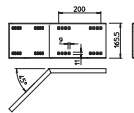


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|------------|-------------------|----------|
| LAS 110 FS | 10 | 17.900 | 6221416 |
| LAS 110 FT | 10 | 18.700 | 6221424 |

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.

45° angle connector, external 160

St FS FT

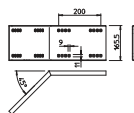
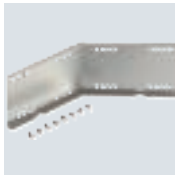


| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|----------------|------------|-------------------|----------|
| WRWV 160 A FS | 160 | 1 | 234.000 | 6227856 |
| WRWV 160 A FT | 160 | 1 | 234.000 | 6227864 |

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, external 160

VA 2B

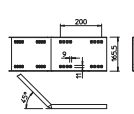


| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|----------------|------------|-------------------|----------|
| WRWV 160 A A2 | 160 | 1 | 234.000 | 6227868 |

Including appropriate bolts, washers and nuts.
45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

45° angle connector, horizontal, inner rail 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 |

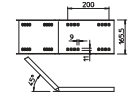
Including appropriate bolts, washers and nuts.
45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

VA 2B

45° angle connector, internal 160

| 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.

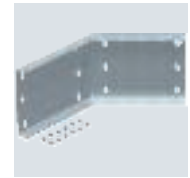
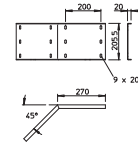


St FT

45° angle connector, external 200

| 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.

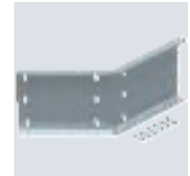
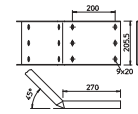


St FT

45° angle connector, internal 200

| 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.

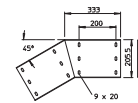


St FT

45° angle connector, vertical 200

| 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.



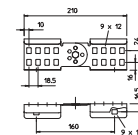
Articulated connector

St FS FT

Adjustable connector 60

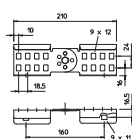
| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|----------------|------------|-------------------|----------|
| LGVG 60 FS | 60 | 10 | 28.500 | 6208941 |
| LGVG 60 FT | 60 | 10 | 29.900 | 6208944 |

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

VA VA 2B

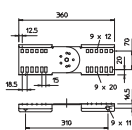


| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|----------------|------------|-------------------|----------|
| LGVG 60 A2 | 60 | 10 | 28.500 | 6208947 |
| LGVG 60 A4 | 60 | 10 | 28.500 | 6208932 |

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.

Adjustable connector 110

St FS FT

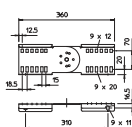


| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|----------------|------------|-------------------|----------|
| LGVG 110 FS | 110 | 10 | 77.900 | 6216650 |
| LGVG 110 FT | 110 | 10 | 82.100 | 6216653 |

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

VA 2B

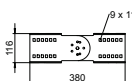
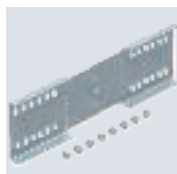


| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|----------------|------------|-------------------|----------|
| LGVG 110 A2 | 110 | 10 | 77.400 | 6216648 |

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 110

St FS FT

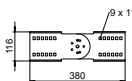


| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|----------------|------------|-------------------|----------|
| WRGV 110 FS | 110 | 2 | 119.000 | 6091318 |
| WRGV 110 FT | 110 | 2 | 119.000 | 6091334 |

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

VA VA 2B



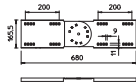
| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|----------------|------------|-------------------|----------|
| WRGV 110 A2 | 110 | 2 | 120.000 | 6091338 |
| WRGV 110 A4 | 110 | 2 | 120.000 | 6091343 |

Adjustable connector for wide span cable trays and ladders with a side height of 110 mm. Including appropriate bolts, washers and nuts.

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 |

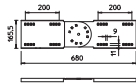


Adjustable connector for wide span cable trays and ladders with a side height of 160 mm.
Including appropriate bolts, washers and nuts.

VA 2B

Adjustable connector 160

| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|----------------|------------|-------------------|----------|
| WRGV 160 A2 | 160 | 2 | 300.200 | 6227965 |

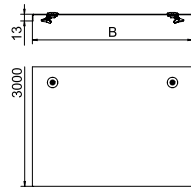


Adjustable connector for wide span cable trays and ladders with a side height of 160 mm.
Including appropriate bolts, washers and nuts.



St FS DD

Cover with turn buckle

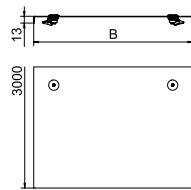


| Type | Dim. B mm | Metal thickness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|-----------------|-----------|--------------------|-----------|--------|-----------------|----------|
| WDRL 1116 20 FS | 200 | 1.00 | 3000 | 3 | 181.340 | 6227422 |
| WDRL 1116 30 FS | 300 | 1.00 | 3000 | 3 | 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.

VA 2B

Cover with turn buckle

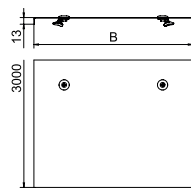


| Type | Dim. B mm | Metal thickness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|-----------------|-----------|--------------------|-----------|--------|-----------------|----------|
| WDRL 1116 20 A2 | 200 | 1.50 | 3000 | 3 | 186.670 | 6227360 |
| WDRL 1116 30 A2 | 300 | 1.50 | 3000 | 3 | 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.

St DD

Cover incl. turn buckles



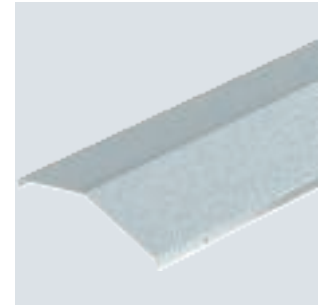
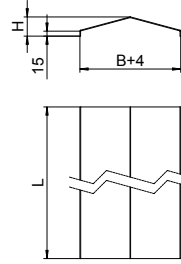
| Type | Dim. B mm | Metal thickness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|--------------|-----------|--------------------|-----------|--------|-----------------|----------|
| WKLD 2020 DD | 200 | 1.50 | 3000 | 3 | 188.000 | 6232402 |
| WKLD 2030 DD | 300 | 1.50 | 3000 | 3 | 266.670 | 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.
Cross-beading from 500 mm width.

St FT

Roof-form cover

| Type | Dim. B mm | Metal thickness 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 |



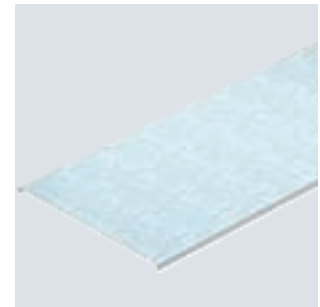
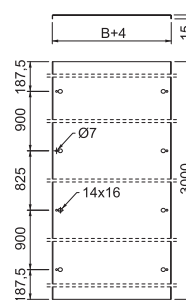
The screws are not included in the scope of delivery.
 Roof-shaped cover for installing on cable trays, cable ladders and wide span systems. Self-tapping drilling screws are used for fastening.

Lid for stand-off mounting

St FT

Cover for stand-off mounting

| 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 |

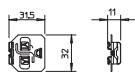


Spacers must ordered separately for every 3 m under article number 6065475 for cable trays and cable ladders as well as under article number 6065477 for wide span systems.
 Cover for stand-off mounting. Not suitable for the vertical ladders SLM and SLS.
 When using covers outdoors, additional measures against the influence of wind must be taken.



Hold-down clamp for barrier strip fastening

VA 2B

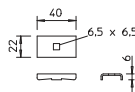


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|------------|-------------------|----------|
| KS KL A2 | 30 | 0.512 | 6062284 |

Hold-down clamp for screwless fastening of the barrier strip in cable ladders.

LKS 40 hold-down clamp

St FS FT



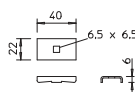
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------|-------------------|----------|
| LKS 40 FS | 10 | 2.300 | 6221076 |
| LKS 40 FT | 10 | 2.400 | 6221084 |

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

VA 2B



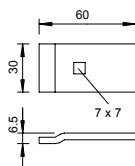
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------|-------------------|----------|
| LKS 40 A2 | 10 | 2.300 | 6017134 |

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



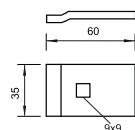
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|------------|-------------------|----------|
| LKS 60 4 FT | 10 | 6.500 | 6221122 |

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 60/5 hold-down clamp

St FT



| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|------------|-------------------|----------|
| LKS 60 5 FT | 10 | 10.000 | 6232485 |

Hold-down clamp for fastening wide span cable ladders.

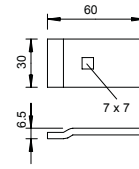
Fastening on bracket, type AW 80, and AWSS using the enclosed truss-head bolt FRS M8x20.

VA VA 2B

LKS 60/4 hold-down clamp

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|------------|-------------------|----------|
| LKS 60 4 A2 | 10 | 8.000 | 6221130 |
| LKS 60 4 A4 | 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.



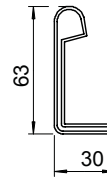
Protective caps

PE

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.

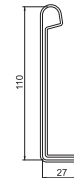


PE

End cap 110

| 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

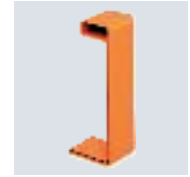
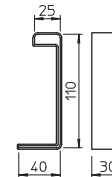


PVC

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.



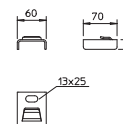
Connection component

St FT

Connection component

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|--------|------------|-------------------|----------|
| ABL FT | 20 | 14.300 | 6221467 |

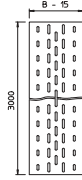
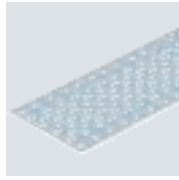
The connection component is the connection between the threaded rod lock and the suspension system for the routing types with cable ladders that maintain electrical function to DIN 4102 Part 12. It is attached to the under-belt of the ladder rail at a distance of max. 100 mm from the bracket. When the threaded rod has been mounted, the connection component is secured against slipping.



Insertion plates

ELB-L insertion plate

St DD



| 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 |

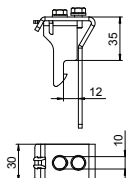
Insert plate for use in cable ladders.

For the fastening in wide span cable ladders use truss-head bolts with the combination nut of type FR SB 6x30.

Spacer

Spacer for cover

VA 2B

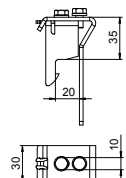


| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|----------------|------------|-------------------|----------|
| AH 35 A2 | 35 | 8 | 14.100 | 6065475 |

Spacers for stand-off cover mounting on cable trays and cable ladders. Space height 35 mm, stainless steel 1.4301.

Spacer for cover

VA 2B



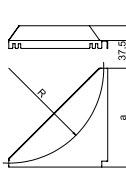
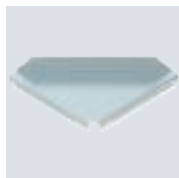
| Type | Side height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|----------------|------------|-------------------|----------|
| AH 35 WS A2 | 35 | 8 | 14.500 | 6065477 |

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.

Corner plate

Corner plate

St FS DD



| Type | Radius mm | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|-----------|---------|------------|-------------------|----------|
| LEB 25 FS | 250 | 250 | 1 | 64.300 | 6221203 |
| LEB 50 FS | 500 | 500 | 1 | 209.300 | 6221246 |
| LEB 25 DD | 250 | 250 | 1 | 63.600 | 6221216 |
| LEB 50 DD | 500 | 500 | 1 | 205.500 | 6221259 |

Corner plate to increase the radius and the cable supporting surface.

VA VA

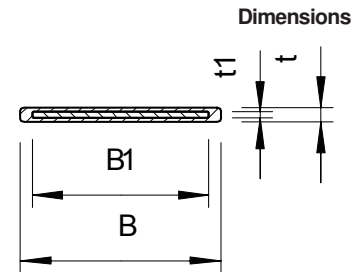
SBF 8 tightening strap in fixed lengths

| Type | Length mm | Avg. breaking load kN | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|-----------|-----------------------|----------------|------------|-------------------|----------|
| SBF 8-200 A2K | 200 | 1.16 | Jet black | 25 | 0.700 | 6490210 |
| SBF 8-300 A2K | 300 | 1.16 | Jet black | 25 | 1.000 | 6490214 |
| SBF 8-400 A2K | 400 | 1.16 | Jet black | 25 | 1.300 | 6490218 |
| SBF 8-500 A2K | 500 | 1.16 | Jet black | 25 | 1.600 | 6490222 |
| SBF 8-600 A2K | 600 | 1.16 | Jet black | 25 | 1.800 | 6490226 |
| SBF 8-200 A4K | 200 | 1.09 | Chestnut brown | 25 | 0.700 | 6490240 |
| SBF 8-300 A4K | 300 | 1.09 | Chestnut brown | 25 | 1.000 | 6490244 |
| SBF 8-400 A4K | 400 | 1.09 | Chestnut brown | 25 | 1.300 | 6490248 |
| SBF 8-500 A4K | 500 | 1.09 | Chestnut brown | 25 | 1.600 | 6490252 |
| SBF 8-600 A4K | 600 | 1.09 | Chestnut brown | 25 | 1.800 | 6490256 |



Pre-terminated tightening strap made of rustproof steel with plastic jacketing and tightening strap lock.

| Type | Dim. B mm | Dim. t mm | Dimen- sion B1 mm | Dimen- sion t1 mm |
|---------------|-----------|-----------|-------------------|-------------------|
| SBF 8-200 A2K | 9.3 | 1 | 8 | 0.3 |
| SBF 8-300 A2K | 9.3 | 1 | 8 | 0.3 |
| SBF 8-400 A2K | 9.3 | 1 | 8 | 0.3 |
| SBF 8-500 A2K | 9.3 | 1 | 8 | 0.3 |
| SBF 8-600 A2K | 9.3 | 1 | 8 | 0.3 |



St VA VA FSK

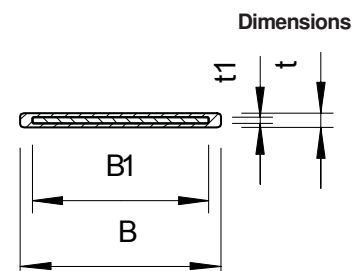
SBF 15 tightening strap in fixed lengths

| Type | Length mm | Avg. breaking load kN | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------------|-----------|-----------------------|----------------|------------|-------------------|----------|
| SBF 15-300 FSK | 300 | 2.5 | Stone grey | 25 | 2.600 | 6490300 |
| SBF 15-400 FSK | 400 | 2.5 | Stone grey | 25 | 3.300 | 6490304 |
| SBF 15-500 FSK | 500 | 2.5 | Stone grey | 25 | 4.100 | 6490308 |
| SBF 15-600 FSK | 600 | 2.5 | Stone grey | 25 | 4.800 | 6490312 |
| SBF 15-700 FSK | 700 | 2.5 | Stone grey | 25 | 5.500 | 6490316 |
| SBF 15-800 FSK | 800 | 2.5 | Stone grey | 25 | 6.200 | 6490320 |
| SBF 15-900 FSK | 900 | 2.5 | Stone grey | 25 | 6.900 | 6490324 |
| SBF 15-1000 FSK | 1000 | 2.5 | Stone grey | 25 | 7.600 | 6490328 |
| SBF 15-300 A2K | 300 | 4.19 | Jet black | 25 | 2.600 | 6490340 |
| SBF 15-400 A2K | 400 | 4.19 | Jet black | 25 | 3.300 | 6490344 |
| SBF 15-500 A2K | 500 | 4.19 | Jet black | 25 | 4.100 | 6490348 |
| SBF 15-600 A2K | 600 | 4.19 | Jet black | 25 | 4.800 | 6490352 |
| SBF 15-700 A2K | 700 | 4.19 | Jet black | 25 | 5.500 | 6490356 |
| SBF 15-800 A2K | 800 | 4.19 | Jet black | 25 | 6.200 | 6490360 |
| SBF 15-900 A2K | 900 | 4.19 | Jet black | 25 | 6.900 | 6490364 |
| SBF 15-1000 A2K | 1000 | 4.19 | Jet black | 25 | 7.600 | 6490368 |
| SBF 15-300 A4K | 300 | 3.93 | Chestnut brown | 25 | 2.600 | 6490380 |
| SBF 15-400 A4K | 400 | 3.93 | Chestnut brown | 25 | 3.300 | 6490384 |
| SBF 15-500 A4K | 500 | 3.93 | Chestnut brown | 25 | 4.100 | 6490388 |
| SBF 15-600 A4K | 600 | 3.93 | Chestnut brown | 25 | 4.800 | 6490392 |
| SBF 15-700 A4K | 700 | 3.93 | Chestnut brown | 25 | 5.500 | 6490396 |
| SBF 15-800 A4K | 800 | 3.93 | Chestnut brown | 25 | 6.200 | 6490400 |
| SBF 15-900 A4K | 900 | 3.93 | Chestnut brown | 25 | 6.900 | 6490404 |
| SBF 15-1000 A4K | 1000 | 3.93 | Chestnut brown | 25 | 7.600 | 6490408 |



Pre-terminated tightening strap made of strip-galvanised steel with plastic jacketing and tightening strap lock.

| Type | Dim. B mm | Dim. t mm | Dimen- sion B1 mm | Dimen- sion t1 mm |
|-----------------|-----------|-----------|-------------------|-------------------|
| SBF 15-300 FSK | 17 | 1.2 | 15 | 0.5 |
| SBF 15-400 FSK | 17 | 1.2 | 15 | 0.5 |
| SBF 15-500 FSK | 17 | 1.2 | 15 | 0.5 |
| SBF 15-600 FSK | 17 | 1.2 | 15 | 0.5 |
| SBF 15-700 FSK | 17 | 1.2 | 15 | 0.5 |
| SBF 15-800 FSK | 17 | 1.2 | 15 | 0.5 |
| SBF 15-900 FSK | 17 | 1.2 | 15 | 0.5 |
| SBF 15-1000 FSK | 17 | 1.2 | 15 | 0.5 |



Tightening strap

VA VA

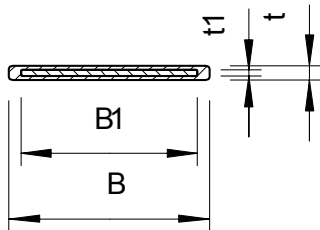
SBR 8 tightening strap



| Type | Avg. breaking load kN | Colour | Pack m | Weight kg/100 m | Item no. |
|-----------|--------------------------|----------------|-----------|--------------------|----------|
| SBR 8 A2K | 1.16 | Jet black | 40 | 1.704 | 6490192 |
| SBR 8 A4K | 1.09 | Chestnut brown | 40 | 1.704 | 6490194 |

Tightening strap made of rustproof steel with plastic jacketing to fasten cables on cable support systems.

Dimensions



| Type | Dim. B mm | Dim. t mm | Dimen- sion B1 mm | Dimen- sion t1 mm |
|-----------|-----------------|-----------------|-------------------------|-------------------------|
| SBR 8 A2K | 9.3 | 1 | 8 | 0.3 |

SBR 15 tightening strap

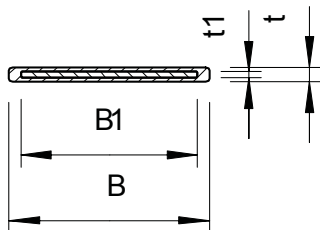
St VA VA FSK



| Type | Avg. breaking load kN | Colour | Pack m | Weight kg/100 m | Item no. |
|------------|--------------------------|----------------|-----------|--------------------|----------|
| SBR 15 FSK | 2.5 | Stone grey | 25 | 7.628 | 6490280 |
| SBR 15 A2K | 4.19 | Jet black | 25 | 7.628 | 6490282 |
| SBR 15 A4K | 3.93 | Chestnut brown | 25 | 7.628 | 6490284 |

Tightening strap made of strip-galvanised steel with plastic jacketing to fasten cables on cable support systems.

Dimensions



| Type | Dim. B mm | Dim. t mm | Dimen- sion B1 mm | Dimen- sion t1 mm |
|------------|-----------------|-----------------|-------------------------|-------------------------|
| SBR 15 FSK | 17 | 1.2 | 15 | 0.5 |

Tightening strap locks

St VA VA FS 2B

SBV 8 tightening strap lock



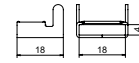
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|---------------|----------------------|----------|
| SBV 8 FS | 100 | 0.250 | 6490940 |
| SBV 8 A2 | 100 | 0.250 | 6490942 |
| SBV 8 A4 | 100 | 0.250 | 6490944 |

Tightening strap lock made of strip-galvanised steel, suitable for portfolio with 8 mm width.

St VA VA FS 2B

SBV 15 tightening strap lock

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------|-------------------|----------|
| SBV 15 FS | 100 | 0.560 | 6490950 |
| SBV 15 A2 | 100 | 0.564 | 6490964 |
| SBV 15 A4 | 100 | 0.560 | 6490972 |



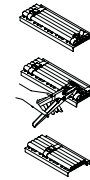
Tightening strap lock made of strip-galvanised steel, suitable for a range of products with a 15 mm width.

Spring chucks

St

Spring chuck

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|------|------------|-------------------|----------|
| 575 | 1 | 29.700 | 6498019 |



Clamping tool for all OBO tightening straps in conjunction with appropriate tightening strap locks. Simple spring chuck without ratchet function and shortening unit. With ergonomically shaped grips.

St

Spring chuck

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|------|------------|-------------------|----------|
| 576 | 1 | 132.000 | 6498027 |



Clamping tool for all OBO tightening straps in conjunction with appropriate tightening strap locks. With high clamping force, ratchet function, shortening unit and round grips for pleasant handling.

Ribbon clips

VA 2B

Metal strip clips, narrow

| Type | Length mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------|-----------|----------|------------|-------------------|----------|
| MBS 015 | 150 | 7 | 100 | 0.230 | 7203100 |
| MBS 030 | 300 | 7 | 100 | 0.399 | 7203102 |
| MBS 045 | 450 | 7 | 50 | 0.602 | 7203104 |
| MBS 061 | 610 | 7 | 50 | 0.806 | 7203106 |



Metal strip clip in ladder form with single lock. For high-temperature and weatherproof fixing.

VA 2B

Metal strip clips, wide

| Type | Length mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------|-----------|----------|------------|-------------------|----------|
| MBS 075 | 750 | 12 | 25 | 2.300 | 7203108 |
| MBS 100 | 1000 | 12 | 25 | 3.000 | 7203110 |
| MBS 120 | 1200 | 12 | 25 | 3.600 | 7203112 |
| MBS 150 | 1500 | 12 | 25 | 4.400 | 7203114 |

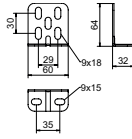


Metal strip clip in ladder form with single lock. For high-temperature and weatherproof fixing.



Fastening bracket BW 64

St FS

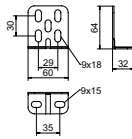


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------------|------------|-------------------|----------------|
| BW 64 32 FS | 10 | 7.090 | 6019680 |

Light-duty fastening bracket of limb dimension 64 x 32 mm.

Fastening bracket BW 64

St FT

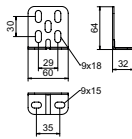


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------------|------------|-------------------|----------------|
| BW 64 32 FT | 10 | 7.700 | 6019682 |

Light-duty fastening bracket of limb dimension 64 x 32 mm.

Fastening bracket BW 64

VA



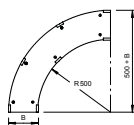
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------------|------------|-------------------|----------------|
| BW 64 32 A2 | 10 | 7.090 | 6019686 |

Light-duty fastening bracket of limb dimension 64 x 32 mm.



Cover for 90° bend WDBRL

St FS DD

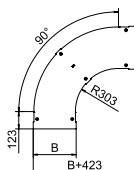


| Type | Dim. B mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|-----------|--------------------|------------|-------------------|----------|
| WDBRL 90 20 FS | 200 | 1.00 | 1 | 164.900 | 6231462 |
| WDBRL 90 30 FS | 300 | 1.00 | 1 | 263.000 | 6231470 |
| WDBRL 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 90° bend LBD R3

St FS FT

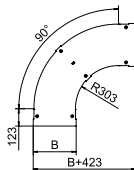


| Type | Dim. B mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|-----------|--------------------|------------|-------------------|----------|
| LBD 90 200 R3 FS | 200 | 1.00 | 1 | 145.000 | 6225990 |
| LBD 90 300 R3 FS | 300 | 1.00 | 1 | 232.000 | 6225992 |
| 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 |

Cover with turn buckles for covering 90° cable ladder bends with welded rungs.

Cover for 90° bend LBD R3

VA VA 2B



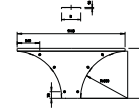
| Type | Dim. B mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|-----------|--------------------|------------|-------------------|----------|
| LBD 90 200 R3 A2 | 200 | 1.00 | 1 | 158.000 | 6226050 |
| LBD 90 300 R3 A2 | 300 | 1.00 | 1 | 246.000 | 6226052 |
| 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.

St FS DD

Cover for add-on tee WAAD

| Type | Width mm | Metal thickness 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 |

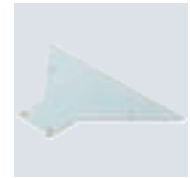
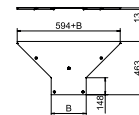


Cover for wide span add-on tee with pre-mounted turn buckles.

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 |



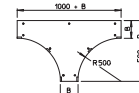
Cover with turn buckles for covering add-on tee with welded rungs.

Lid, T piece

St DD

Cover for T WDTRL T branch piece

| Type | Dim. B mm | Metal thickness 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 |



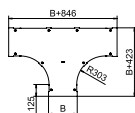
As the connector is mounted from the outside, the fitting cover is 300 mm shorter than the corresponding fitting. This must be considered when installing the track elements.

Cover for wide span tee with pre-mounted turn buckles.



Cover for LTD R3 T piece

St FS FT

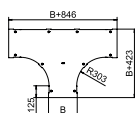


| Type | Dim. B mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|-----------|--------------------|------------|-------------------|----------|
| LTD 200 R3 FS | 200 | 1.00 | 1 | 274.000 | 6226100 |
| LTD 300 R3 FS | 300 | 1.00 | 1 | 413.000 | 6226102 |
| LTD 400 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 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.

Cover for LTD R3 T piece

VA VA 2B

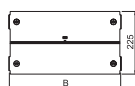


| Type | Dim. B mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|-----------|--------------------|------------|-------------------|----------|
| LTD 200 R3 A2 | 200 | 1.00 | 1 | 287.000 | 6226160 |
| LTD 300 R3 A2 | 300 | 1.00 | 1 | 429.000 | 6226162 |
| LTD 400 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.

Lid, adjustable bend element

St FS FT



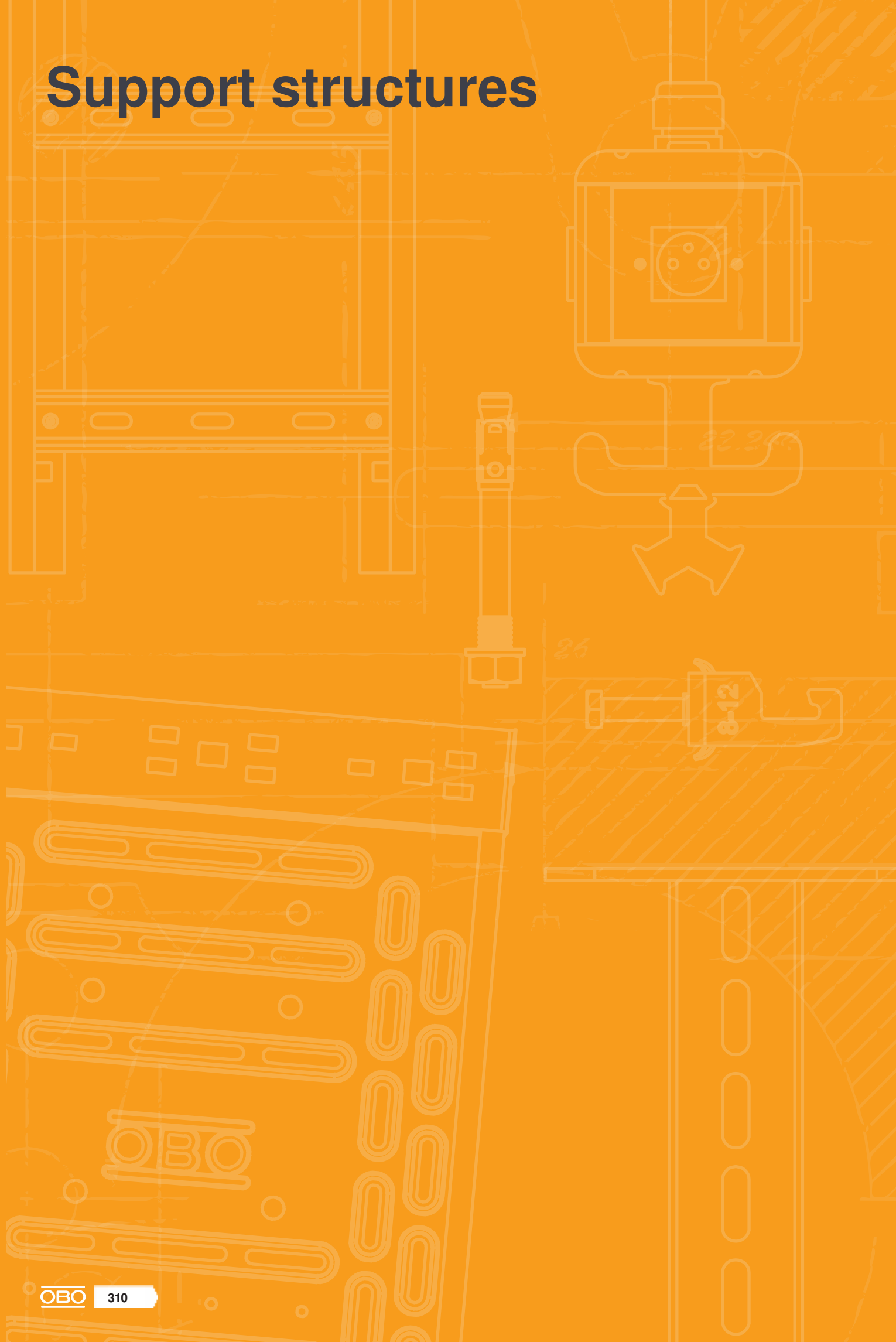
| Type | Dim. B mm | Metal thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|-----------|--------------------|------------|-------------------|----------|
| LGBED 200 FS | 200 | 1.00 | 1 | 42.000 | 6226210 |
| LGBED 300 FS | 300 | 1.00 | 1 | 60.000 | 6226212 |
| LGBED 400 FS | 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 |

Cover with sash locks for covering adjustable bends with welded rungs.











Support structures

Support structures



Support structures

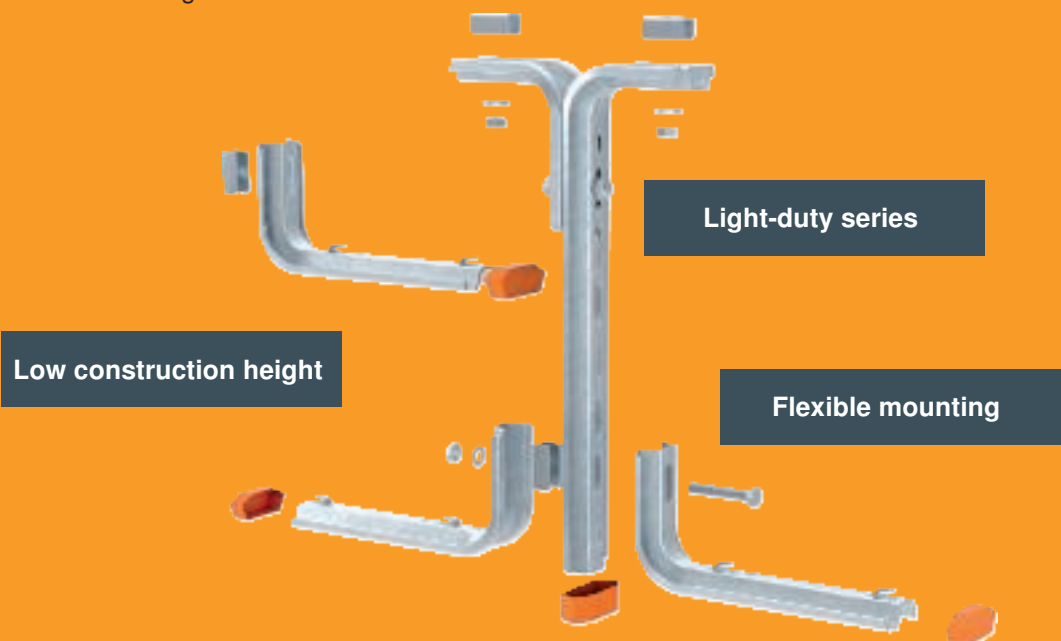
| | | |
|---|------------------------|-----|
|  | Supports | 312 |
|  | Connector, supports | 338 |
|  | Accessories, supports | 340 |
|  | Bracket | 348 |
|  | Suspensions and clamps | 376 |
|  | Cable support troughs | 392 |
|  | Profile rails | 404 |
|  | Clamp fastenings | 444 |





TP supports and brackets

The TP system is a range of light-duty supports and brackets. This product range, which consists of TP suspended supports and brackets, can be used universally as ceiling and wall mounting.



TP systems

Installation principle



| | | |
|---|--------------------------------------|-----------|
| 1 | TP suspended support | TPS |
| 2 | TP support/wall and support brackets | TPS |
| 3 | Spacer | DS4 |
| 4 | End cap | TPS KS OR |

TP support

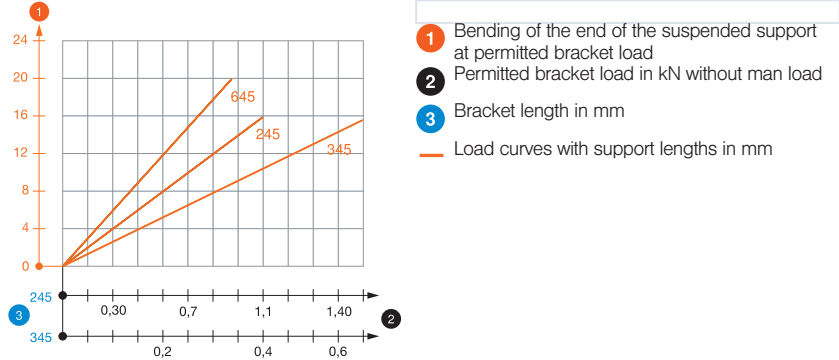


If the profile is fastened directly to the ceiling or the profile is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.
Important: only use brackets of length 345 mm or less.
TP support for fastening to horizontal concrete ceilings.

| Type | Length mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|-----------|------------|-------------------|----------|
| TPS 445 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



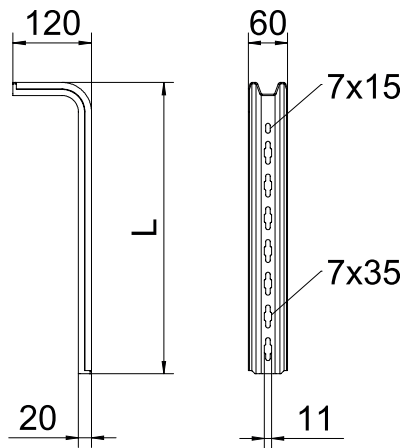
Characteristic anchor load values for TP support

| Anchor type | Single-sided load | | |
|-------------------|--------------------|------|------|
| | Max. load [kN] | | |
| | Bracket width [mm] | | |
| | 145 | 245 | 345 |
| BZ-U 8-30-41/95 | 1,50 | 1,00 | 0,65 |
| BZ-U 10-30-50/110 | 1,50 | 1,50 | 0,65 |

| Anchor type | Double-sided load | | |
|-------------------|--------------------|------|------|
| | Max. load [kN] | | |
| | Bracket width [mm] | | |
| | 145 | 245 | 345 |
| BZ-U 8-30-41/95 | 1,50 | 1,50 | 1,20 |
| BZ-U 10-30-50/110 | 1,50 | 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 FS | 445 |
| TPS 545 FS | 545 |
| TPS 645 FS | 645 |

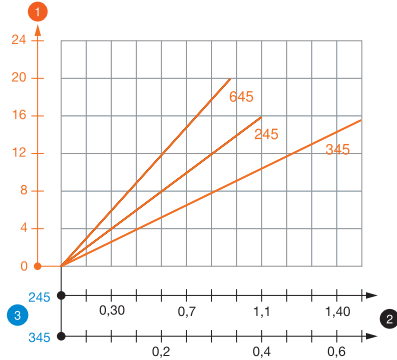
St FT

TP support

| 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



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.

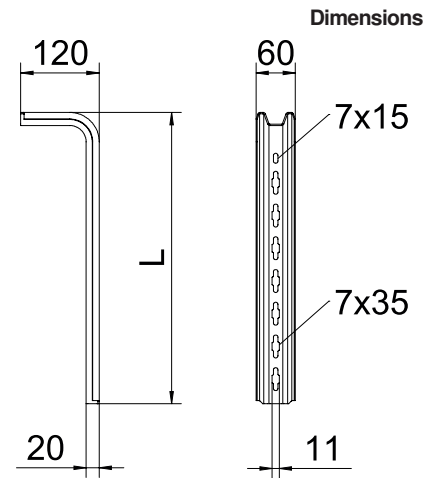
Characteristic anchor load values for TP support

| Anchor type | Single-sided load | | | |
|-------------------|--------------------|------|-----|------|
| | Max. load [kN] | | | |
| | Bracket width [mm] | | | |
| BZ-U 8-30-41/95 | 145 | 245 | 345 | 0,65 |
| BZ-U 10-30-50/110 | 1,50 | 1,00 | | 0,65 |

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

| Type | Dim. L mm |
|------------|-----------------|
| TPS 445 FT | 445 |
| TPS 545 FT | 545 |
| TPS 645 FT | 645 |



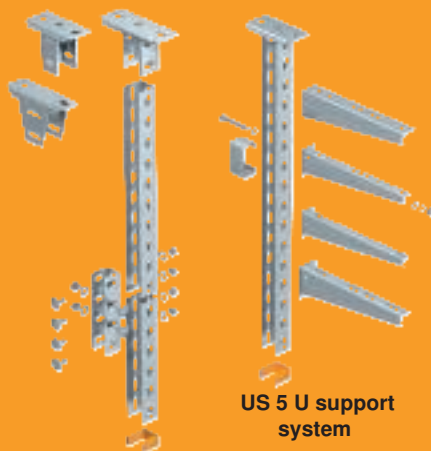


U support family

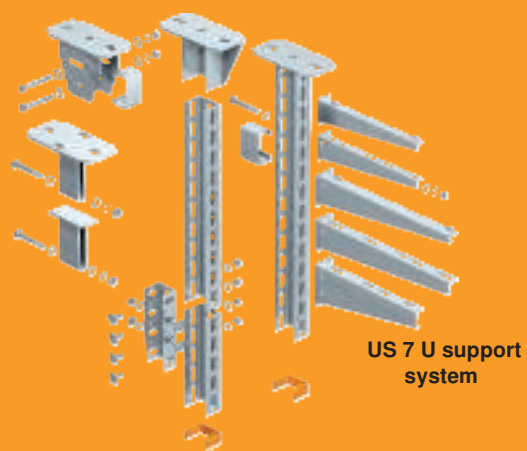
The perfectly matched U support family consists of US 3 (light-duty system), US 5 (medium-duty system) and US 7 (heavy-duty system). The U support range is particularly noted for its versatility. The U supports can be used as ceiling suspension, floor stand-off or as construction profiles.



US 3 U support system



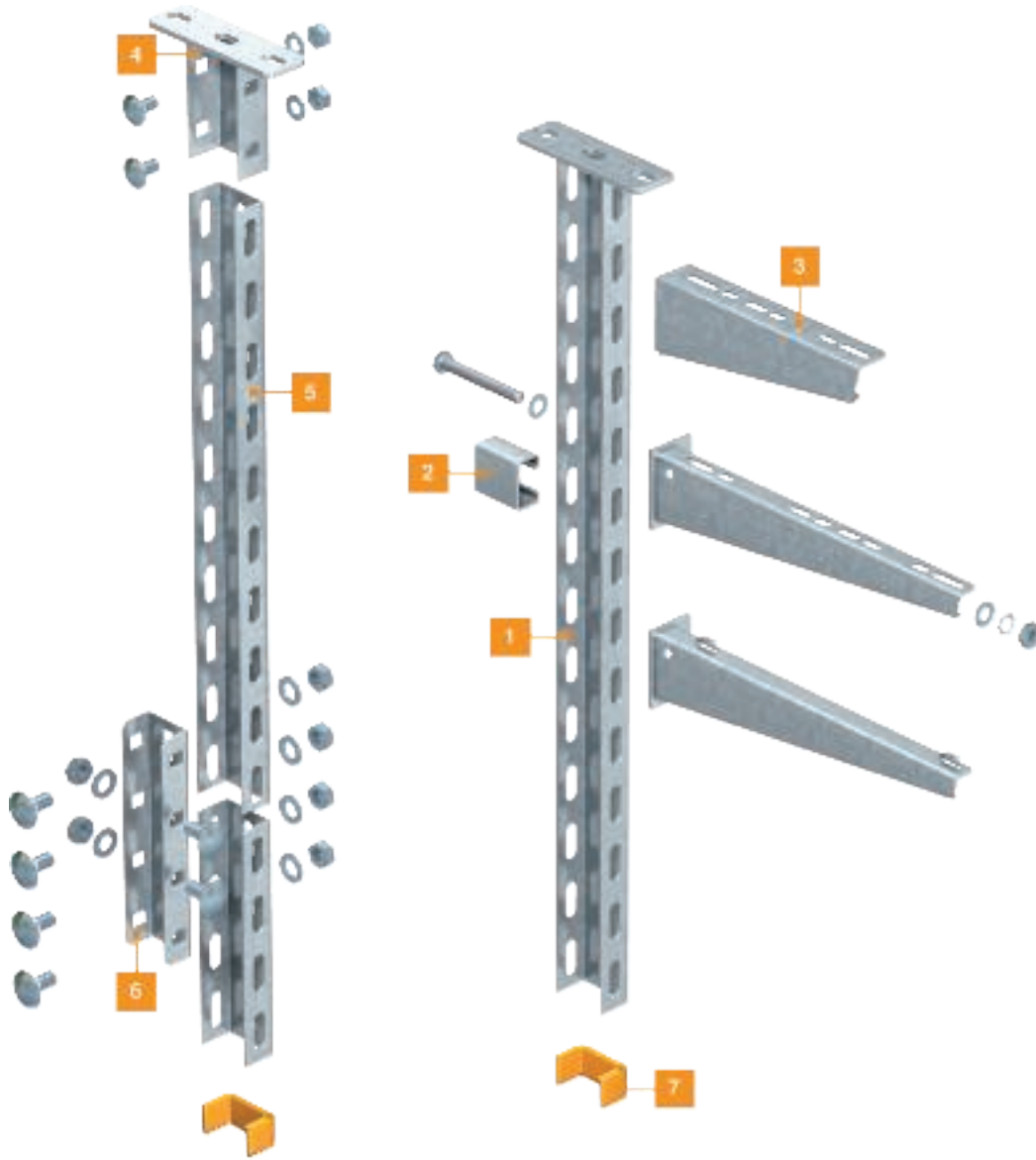
US 5 U support system



US 7 U support system

US 3 U support system

Installation principle



| | | |
|---|--------------------------|---|
| 1 | US 3 suspended support | US 3 K |
| 2 | Spacer | DSK |
| 3 | Wall and support bracket | MWA 12, MWAM 12, MWAG 12, AW 15, AWg 15, AW 30, AW 55 |
| 4 | Head plate | KU 3 |
| 5 | US 3 support | US 3 |
| 6 | U support connector | VUS 3 |
| 7 | End cap | US 3 KS OR |

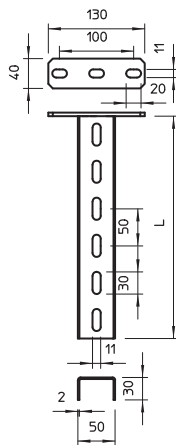


US 3 support



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 |
| Deformation measuring point m | AW 15 31 | AW 15 31 |
| 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 |

According to IEC 61537, Chapter 10.8.2.3

Testing of the bending torque on the support with bracket with spacer

| | | |
|-------------------------------|-----------|------------|
| Item on test | US 3 K 80 | US 3 K 120 |
| Deformation measuring point m | AW 15 61 | AW 15 61 |
| 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

US 3 support

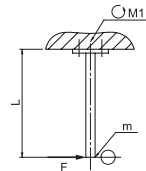
| Type | Length mm | Material thickness mm | Tensile load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|-----------|-----------------------|-----------------|------------|-------------------|----------|
| US 3 K 20 A2 | 200 | 2 | 5 | 1 | 44.000 | 6342401 |
| US 3 K 30 A2 | 300 | 2 | 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 |

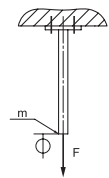
According to IEC 61537, Chapter 10.8.2.1



Testing of the tensile strength

| | |
|-------------------------------|-----------|
| Item on test | US 3 K 80 |
| Deformation measuring point m | |
| Force F (SWL) | 20 kN |

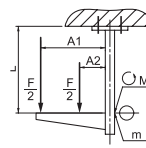
According to IEC 61537, Chapter 10.8.2.2



Testing of the bending torque on the support with bracket

| | | |
|-------------------------------|-----------|------------|
| Item on test | US 3 K 80 | US 3 K 120 |
| Deformation measuring point m | AW 15 31 | AW 15 31 |
| 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 |

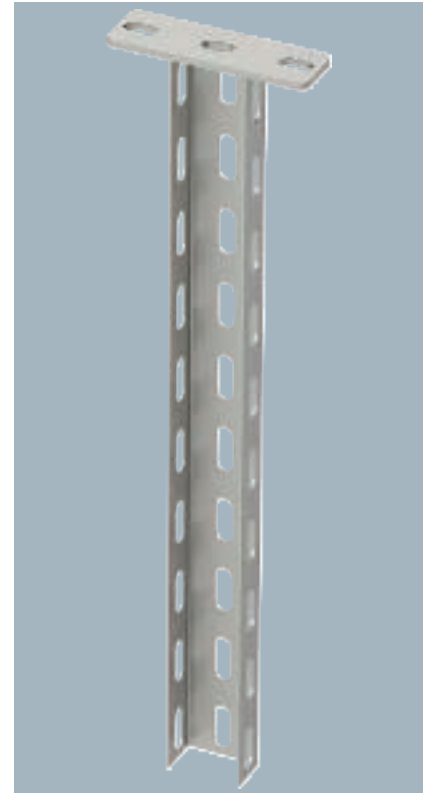
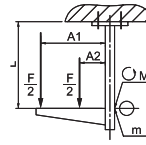
According to IEC 61537, Chapter 10.8.2.3



Testing of the bending torque on the support with bracket with spacer

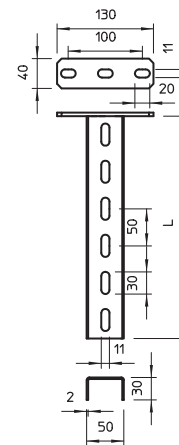
| | | |
|-------------------------------|-----------|------------|
| Item on test | US 3 K 80 | US 3 K 120 |
| Deformation measuring point m | AW 15 61 | AW 15 61 |
| A1 lever arm | 610 mm | 610 mm |
| A2 lever arm | 10 mm | 10 mm |
| Length L | 500 mm | 1.000 mm |
| Force F | 0.850 kN | 0.850 kN |
| Bending torque M2 (SWL) | 290 Nm | 290 Nm |

According to IEC 61537, Chapter 10.8.2.3, without spacer

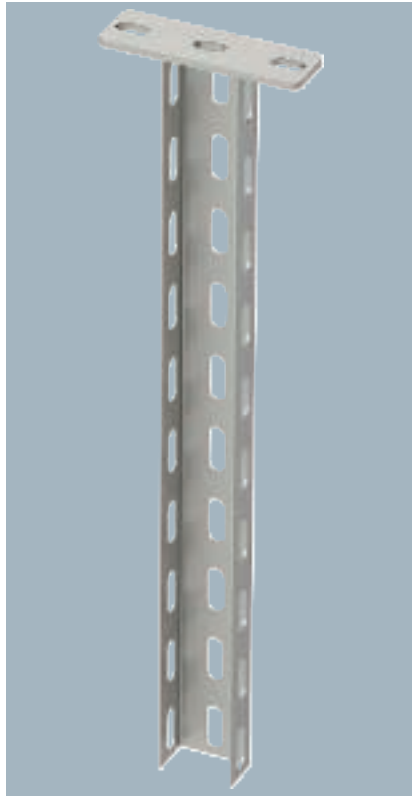


For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

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

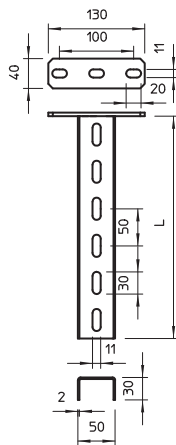


US 3 support



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 40 A4 | 400 | 2 | 5 | 1 | 71.000 | 6342379 |
| US 3 K 50 A4 | 500 | 2 | 5 | 1 | 84.000 | 6342381 |
| US 3 K 60 A4 | 600 | 2 | 5 | 1 | 97.000 | 6342389 |
| US 3 K 70 A4 | 700 | 2 | 5 | 1 | 110.000 | 6342391 |
| US 3 K 80 A4 | 800 | 2 | 5 | 1 | 123.000 | 6342393 |
| US 3 K 90 A4 | 900 | 2 | 5 | 1 | 137.000 | 6342395 |
| US 3 K 100 A4 | 1000 | 2 | 5 | 1 | 150.000 | 6342397 |
| US 3 K 110 A4 | 1100 | 2 | 5 | 1 | 166.000 | 6342396 |
| US 3 K 120 A4 | 1200 | 2 | 5 | 1 | 110.000 | 6342398 |

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 |
| Deformation measuring point m | AW 15 31 | AW 15 31 |
| 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 |

According to IEC 61537, Chapter 10.8.2.3

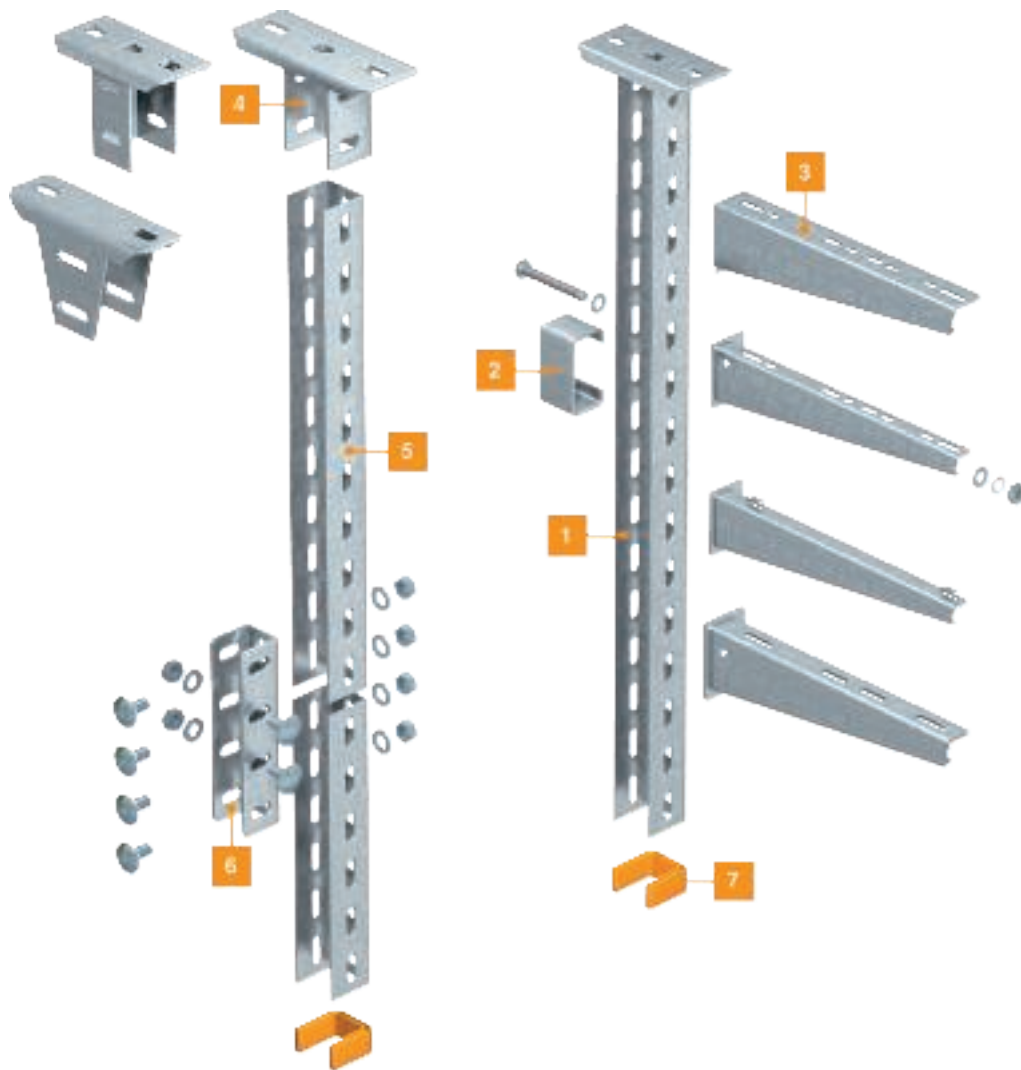
Testing of the bending torque on the support with bracket with spacer

| | | |
|-------------------------------|-----------|------------|
| Item on test | US 3 K 80 | US 3 K 120 |
| Deformation measuring point m | AW 15 61 | AW 15 61 |
| 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

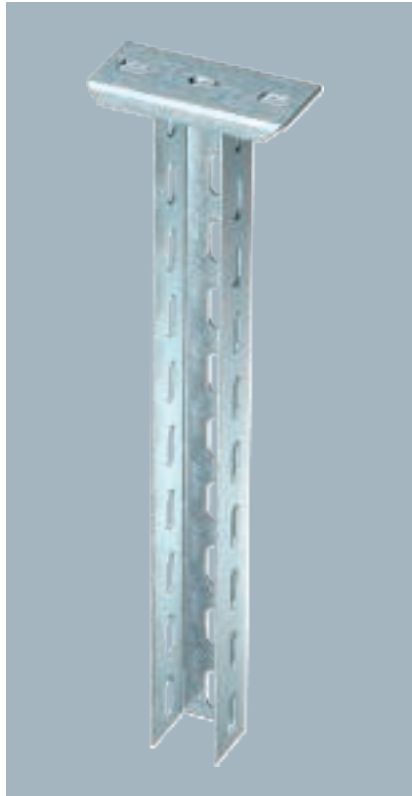
US 5 U support system

Installation principle



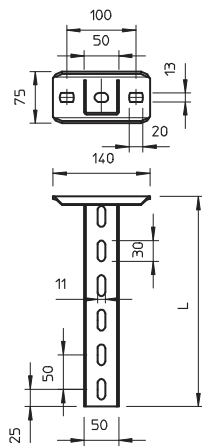
| | | |
|---|--------------------------|---|
| 1 | US 5 suspended support | US 5 K |
| 2 | Spacer | DSk 47 |
| 3 | Wall and support bracket | MWA 12, MWAM 12, MWAG 12, AW 15, AWg 15, AW 30, AW 55 |
| 4 | Head plate | KUS 5 |
| 5 | US 5 support | US 5 |
| 6 | U support connector | VUS 5 |
| 7 | End cap | US 5 KS OR |

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 |

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 31 FT | AW 30 31 FT |
| 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 | 1.253 kN | 1.358 kN |
| Bending torque M2 (SWL) | 240 Nm | 260 Nm |
| According to IEC 61537, Chapter 10.8.2.3 | | |
| 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 | 1.094 kN |
| Bending torque M2 (SWL) | 500 Nm | 430 Nm |
| According to IEC 61537, Chapter 10.8.2.3 | | |

US 5 support

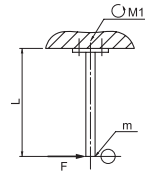
| Type | Length mm | Material thickness mm | Tensile load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|-----------|-----------------------|-----------------|------------|-------------------|----------|
| US 5 K 20 A2 | 200 | 2.5 | 10 | 1 | 100.000 | 6341358 |
| US 5 K 30 A2 | 300 | 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 |

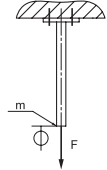
According to IEC 61537, Chapter 10.8.2.1



Testing of the tensile strength

| | |
|-------------------------------|-----------|
| Item on test | US 5 K 80 |
| Deformation measuring point m | |
| Force F (SWL) | 26 kN |

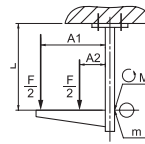
According to IEC 61537, Chapter 10.8.2.2



Testing of the bending torque on the support with bracket

| Item on test | US 5 K 80 | US 5 K 120 |
|-------------------------------|-----------|------------|
| | AW 30 31 | AW 30 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 | 1.253 kN | 1.358 kN |
| Bending torque M2 (SWL) | 240 Nm | 260 Nm |

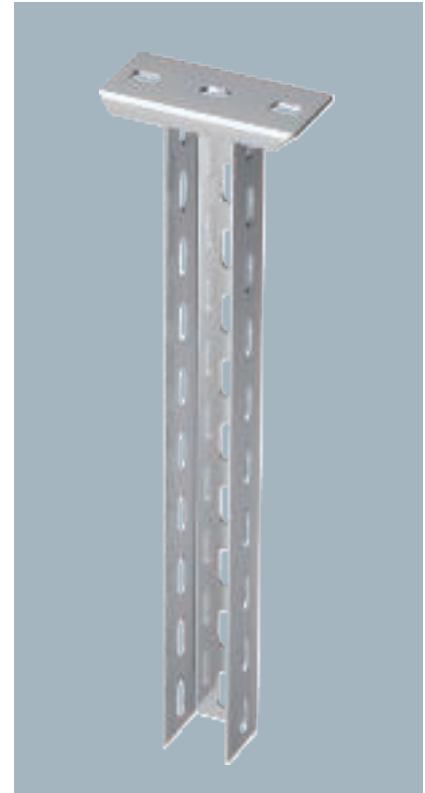
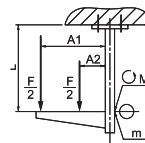
According to IEC 61537, Chapter 10.8.2.3



Testing of the bending torque on the support with bracket with spacer

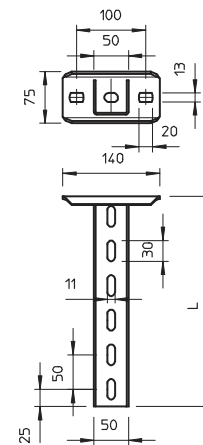
| Item on test | US 5 K 80 | US 5 K 120 |
|-------------------------------|-----------|------------|
| | AW 30 71 | AW 30 71 |
| Deformation measuring point m | | |
| A1 lever arm | 710 mm | 710 mm |
| A2 lever arm | 10 mm | 10 mm |
| Length L | 500 mm | 1,000 mm |
| Force F | 1.272 kN | 0.950 kN |
| Bending torque M2 (SWL) | 500 Nm | 430 Nm |

According to IEC 61537, Chapter 10.8.2.3

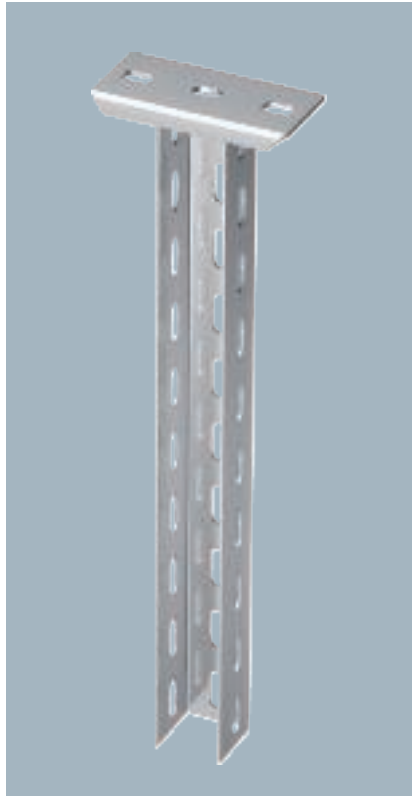


For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.

Suspended support (U profile) with welded head plate.

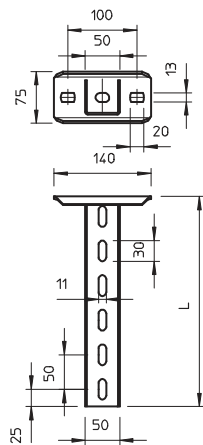


US 5 support



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

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 |

According to IEC 61537, Chapter 10.8.2.3

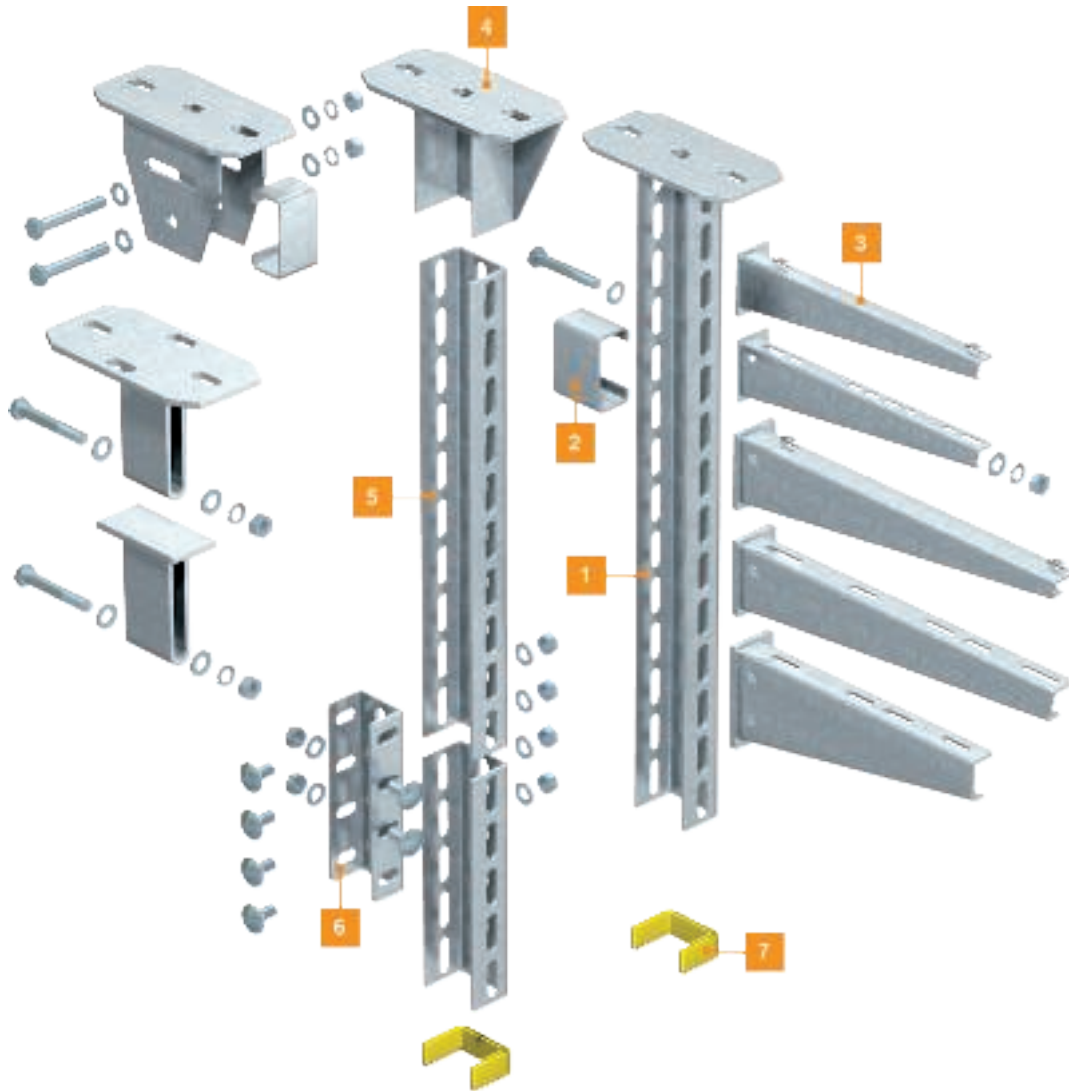
Testing of the bending torque on the support with bracket with spacer

| | | |
|-------------------------------|-----------|------------|
| 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

US 7 U support system

Installation principle



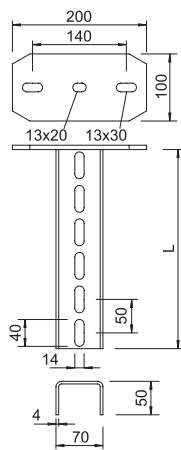
| | | |
|---|--------------------------|---|
| 1 | US 7 hanging support | US 7 K |
| 2 | Spacer | DSK 61 |
| 3 | Wall and support bracket | MWA 12, MWAM 12, MWAG 12, AW 15, AWg 15, AW 30, AW 55 |
| 4 | Head plate | KU 7 NOX |
| 5 | US 7 support | US 7 |
| 6 | U support connector | VUS 7 |
| 7 | End cap | US 7 KS OR |

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) of dimensions 70 x 50 mm with welded head plate.



| Type | Length mm | Material thickness mm | Tensile load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|-----------|-----------------------|-----------------|------------|-------------------|----------|
| US 7 K 20 FT | 200 | 4 | 11 | 1 | 177.000 | 6339018 |
| US 7 K 30 FT | 300 | 4 | 11 | 1 | 218.000 | 6339034 |
| US 7 K 40 FT | 400 | 4 | 11 | 1 | 261.000 | 6339050 |
| US 7 K 50 FT | 500 | 4 | 11 | 1 | 302.000 | 6339077 |
| US 7 K 60 FT | 600 | 4 | 11 | 1 | 344.000 | 6339093 |
| US 7 K 70 FT | 700 | 4 | 11 | 1 | 387.000 | 6339115 |
| US 7 K 80 FT | 800 | 4 | 11 | 1 | 418.000 | 6339131 |
| US 7 K 90 FT | 900 | 4 | 11 | 1 | 470.000 | 6339166 |
| US 7 K 100 FT | 1000 | 4 | 11 | 1 | 512.000 | 6339182 |
| US 7 K 110 FT | 1100 | 4 | 11 | 1 | 550.000 | 6339190 |
| US 7 K 120 FT | 1200 | 4 | 11 | 1 | 591.000 | 6339204 |
| US 7 K 130 FT | 1300 | 4 | 11 | 1 | 636.000 | 6339212 |
| US 7 K 140 FT | 1400 | 4 | 11 | 1 | 675.000 | 6339220 |
| US 7 K 150 FT | 1500 | 4 | 11 | 1 | 718.000 | 6339239 |
| US 7 K 160 FT | 1600 | 4 | 11 | 1 | 760.000 | 6339247 |
| US 7 K 170 FT | 1700 | 4 | 11 | 1 | 802.000 | 6339255 |
| US 7 K 180 FT | 1800 | 4 | 11 | 1 | 843.000 | 6339263 |
| US 7 K 190 FT | 1900 | 4 | 11 | 1 | 884.000 | 6339271 |
| US 7 K 200 FT | 2000 | 4 | 11 | 1 | 879.722 | 6339298 |
| US 7 K 250 FT | 2500 | 4 | 11 | 1 | 1,140.000 | 6339334 |
| US 7 K 300 FT | 3000 | 4 | 11 | 1 | 1,428.000 | 6339360 |

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 |
|-------------------------------|-------------|------------|------------|
| Deformation measuring point m | AW 30 31 FT | AW 30 31 | AW 30 31 |
| 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 |

According to IEC 61537, Chapter 10.8.2.3

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 |
|-------------------------------|-------------|-------------|-------------|
| Deformation measuring point m | AW 55 81 FT | AW 55 81 FT | AW 55 81 FT |
| 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

US 7 support

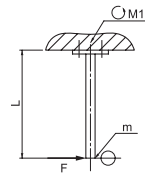
| Type | Length mm | Material thickness mm | Tensile load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|-----------|-----------------------|-----------------|------------|-------------------|----------|
| US 7 K 20 A2 | 200 | 4 | 11 | 1 | 173.000 | 6338607 |
| US 7 K 30 A2 | 300 | 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 |

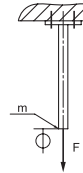
According to IEC 61537, Chapter 10.8.2.1



Testing of the tensile strength

| | |
|-------------------------------|-----------|
| Item on test | US 7 K 80 |
| Deformation measuring point m | |
| Force F (SWL) | 45 kN |

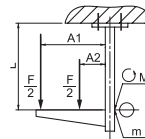
According to IEC 61537, Chapter 10.8.2.2



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 |

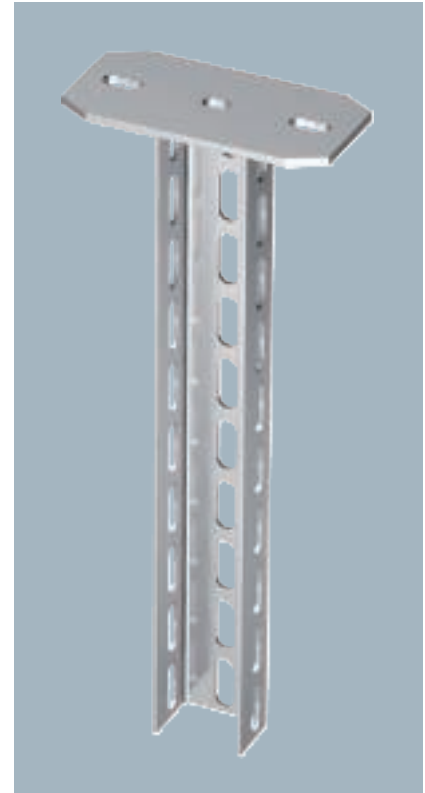
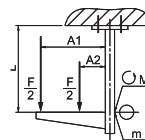
According to IEC 61537, Chapter 10.8.2.3



Testing of the bending torque on the support with bracket with spacer

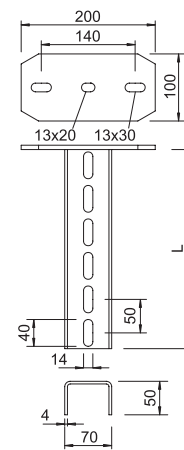
| | | | |
|-------------------------------|-----------|------------|------------|
| Item on test | US 7 K 80 | US 7 K 120 | US 7 K 170 |
| | AW 55 81 | AW 55 81 | AW 55 81 |
| Deformation measuring point m | | | |
| A1 lever arm | 810 mm | 810 mm | 810 mm |
| A2 lever arm | 10 mm | 10 mm | 10 mm |
| 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.

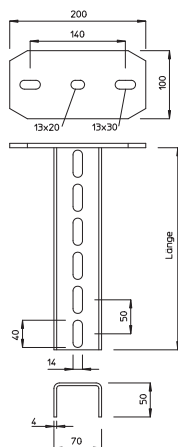


US 7 support



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 |
|-------------------------------|-----------|------------|------------|
| Deformation measuring point m | AW 30 31 | AW 30 31 | AW 30 31 |
| 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 |

According to IEC 61537, Chapter 10.8.2.3

Testing of the bending torque on the support with bracket with spacer

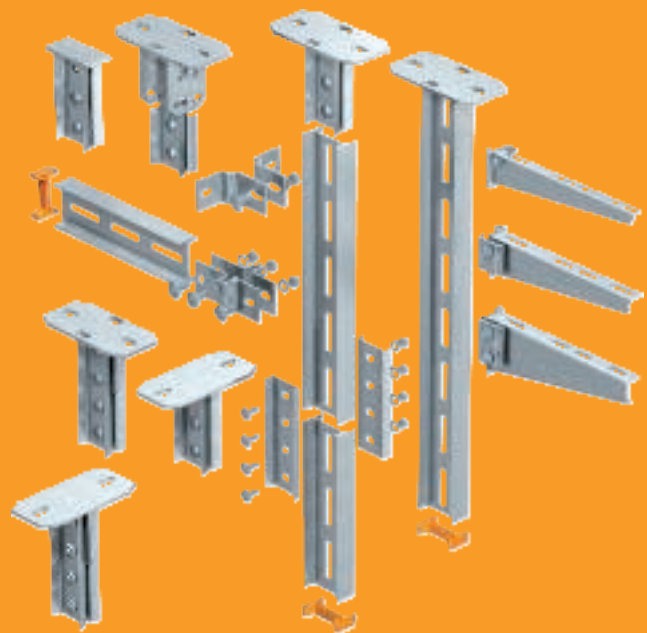
| Item on test | US 7 K 80 | US 7 K 120 | US 7 K 170 |
|-------------------------------|-----------|------------|------------|
| Deformation measuring point m | AW 55 81 | AW 55 81 | AW 55 81 |
| A1 lever arm | 810 mm | 810 mm | 810 mm |
| A2 lever arm | 10 mm | 10 mm | 10 mm |
| Length L | 500 mm | 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



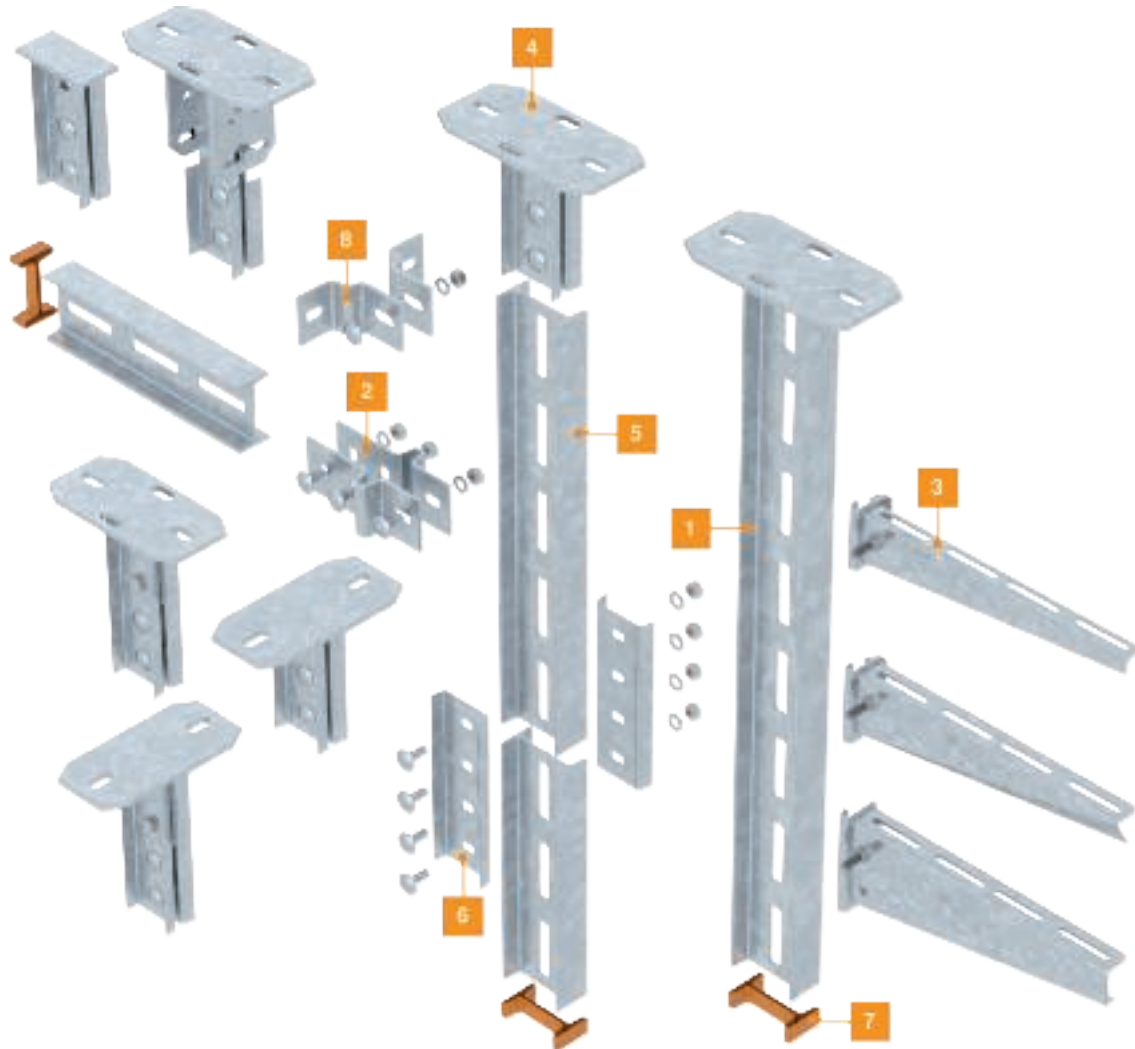
I support family

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 | IS 8 K |
| 2 | Luminaire support rail | AHIS 8 |
| 3 | 90° bend | |
| 4 | Cover with turn buckle | KI 8 |
| 5 | Edge protection ring | IS 8 |
| 6 | Suspension bracket | VIS 8 |
| 7 | Suspension chain | IS 8 KS OR |
| 8 | Centre suspension | TGK |

IS 8 support

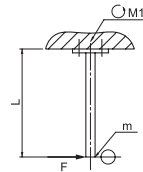
| Type | Length mm | Material thickness mm | Tensile load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|-----------|-----------------------|-----------------|------------|-------------------|----------|
| IS 8 K 20 FT | 200 | 4 | 12 | 1 | 205.900 | 6361021 |
| IS 8 K 30 FT | 300 | 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 |
| IS 8 K 300 FT | 3000 | 4 | 12 | 1 | 1,833.000 | 6361692 |

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 |

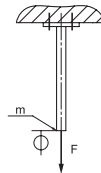
According to IEC 61537, Chapter 10.8.2.1



Testing of the tensile strength

| | |
|-------------------------------|-----------|
| Item on test | IS 8 K 80 |
| Deformation measuring point m | |
| Force F (SWL) | 50 kN |

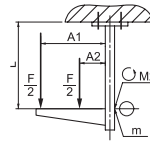
According to IEC 61537, Chapter 10.8.2.2



Testing of the bending torque on the support with bracket

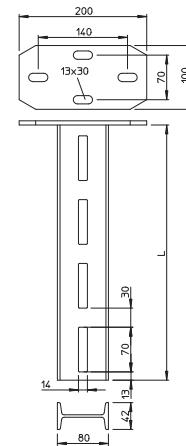
| | | | |
|-------------------------------|-----------|------------|------------|
| Item on test | IS 8 K 80 | IS 8 K 140 | IS 8 K 180 |
| | AS 55 101 | AS 55 101 | AS 55 101 |
| Deformation measuring point m | | | |
| A1 lever arm | 1,010 mm | 1,010 mm | 1,010 mm |
| A2 lever arm | 10 mm | 10 mm | 10 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



I support with welded head plate. For fastening to horizontal concrete ceilings and steel girders.

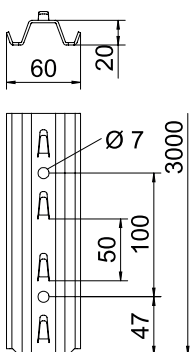
Single and double-sided brackets of type AS 15, AS 30 and AS 55 can be fastened to the IS 8 K suspended support. The height of the brackets is infinitely adjustable.



TP profile

St FS

TP profile



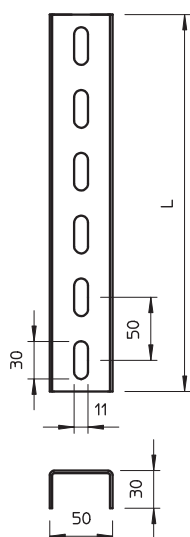
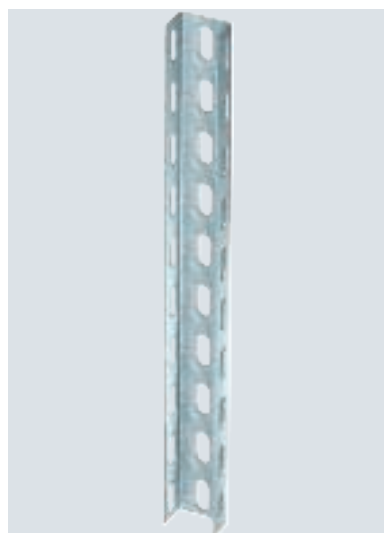
| Type | Length mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|--------------|---------------|----------------------|----------|
| TPSG 3000 FS | 3000 | 1 | 441.000 | 6366090 |

TP profile with clamping lugs.

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 90 FS | 900 | 2 | 🔥 | 1 | 120.000 | 6342316 |
| US 3 100 FS | 1000 | 2 | 🔥 | 1 | 133.000 | 6342318 |
| US 3 150 FS | 1500 | 2 | 🔥 | 1 | 200.000 | 6342328 |
| US 3 200 FS | 2000 | 2 | 🔥 | 1 | 266.000 | 6342338 |
| US 3 300 FS | 3000 | 2 | 🔥 | 1 | 399.000 | 6342340 |
| US 3 600 FS | 6000 | 2 | 🔥 | 1 | 798.000 | 6342345 |
| US 3 600 FT | 6000 | 2 | | 1 | 834.000 | 6342450 |

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

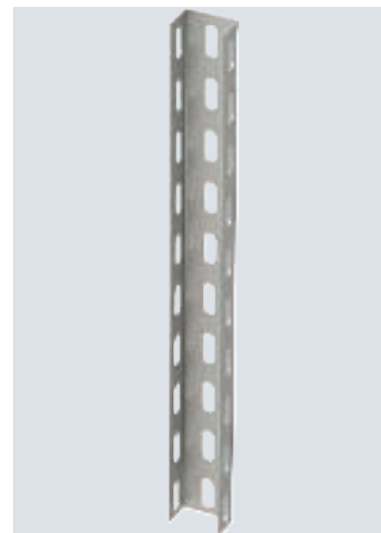
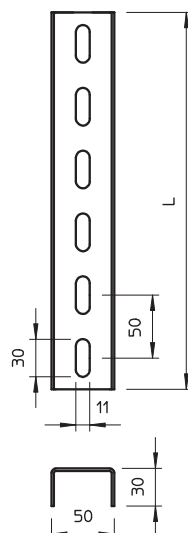
For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

VA 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 |

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.



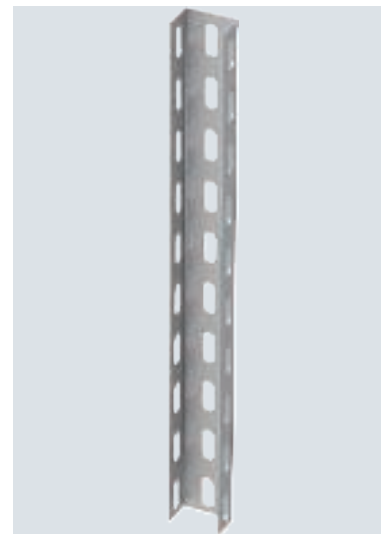
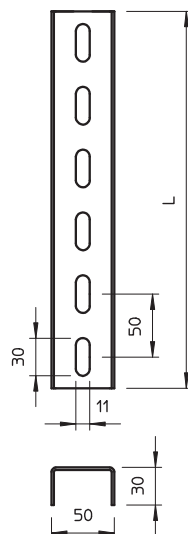
US 3 support

VA 2B

| Type | Length mm | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|--------------|-----------------------------|---------------|----------------------|----------|
| 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.

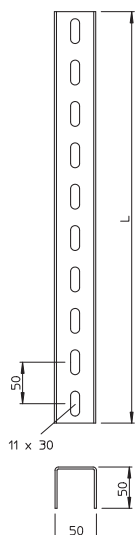


US 3 support



US 5 support

St FT



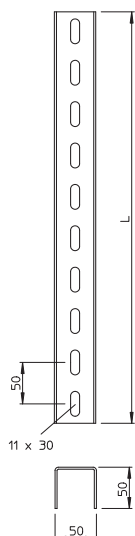
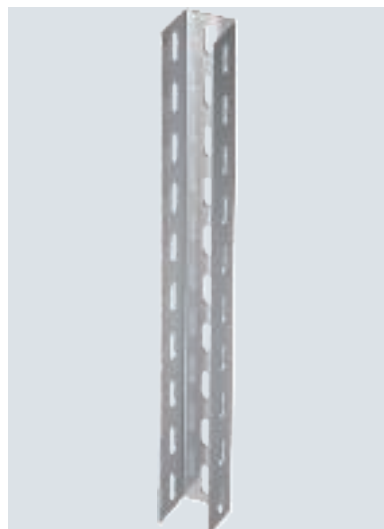
| Type | Length mm | Material thickness mm | BS | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|-----------|-----------------------|----|------------|-------------------|----------|
| US 5 20 FT | 200 | 2.5 | | 1 | 51.000 | 6340881 |
| US 5 30 FT | 300 | 2.5 | 🔥 | 1 | 79.000 | 6340903 |
| 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

VA VA 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 5 300 A4 | 3000 | 2.5 | | 1 | 737.000 | 6341073 |

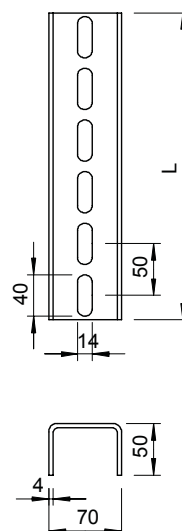
U support in fixed lengths. Dimensions 50 x 50 mm.

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 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 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 7 300 FT | 3000 | 4 | 🔥 | 1 | 1,250.000 | 6340377 |
| US 7 600 FT | 6000 | 4 | 🔥 | 1 | 2,490.000 | 6340318 |

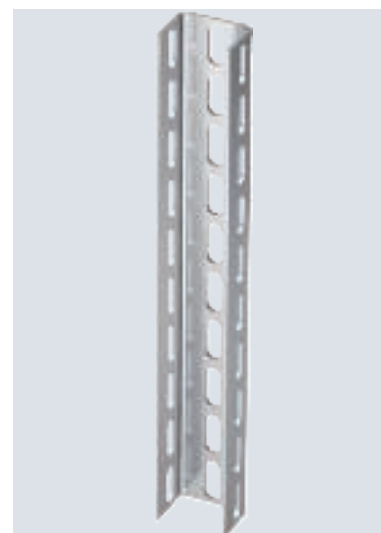
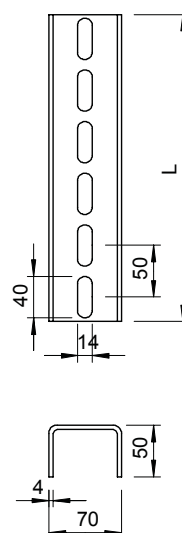


U support in fixed lengths. Dimensions 70 x 50 mm.
For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

VA VA 2B

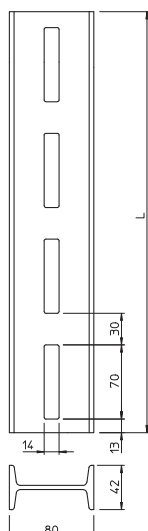
US 7 support

| Type | Length mm | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|-----------|-----------------------|------------|-------------------|----------|
| 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 |



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.

IS 8 support



| 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 8 250 FT | 2500 | 4 | 1 | 1,440.000 | 6337240 |
| IS 8 300 FT | 3000 | 4 | 1 | 1,730.000 | 6337244 |
| IS 8 600 FT | 6000 | 4 | 1 | 3,460.000 | 6337252 |

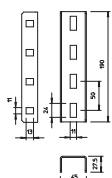
I support in fixed lengths. Dimensions 80 x 42 mm.
Single and double-sided brackets of type AS 15, AS 30 and AS 55 can be fastened to the IS 8 I support. The height of the brackets is infinitely adjustable.



Connector, US3 supports

VUS 3 U support connector

St FT



Type

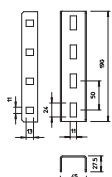
VUS 3 FT

| Pack Piece | Weight kg/100 pc. | Item no. |
|------------|-------------------|----------|
| 10 | 48.300 | 6018513 |

U support connector to connect US 3 supports.
Including appropriate fastening material.

VUS 3 U support connector

VA VA 2B



Type

VUS 3 A2

VUS 3 A4

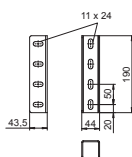
| Pack Piece | Weight kg/100 pc. | Item no. |
|------------|-------------------|----------|
| 1 | 48.200 | 6018517 |
| 1 | 48.200 | 6018520 |

U support connector to connect US 3 supports.
Including appropriate fastening material.

Connector, US5 supports

VUS 5 U support connector

St FT



Type

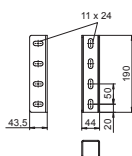
VUS 5 FT

| Pack Piece | Weight kg/100 pc. | Item no. |
|------------|-------------------|----------|
| 10 | 44.000 | 6018505 |

U support connector to connect US 5 supports.
Including appropriate fastening material.

U support connector VUS 5

VA 2B



Type

VUS 5 A4

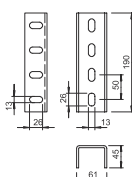
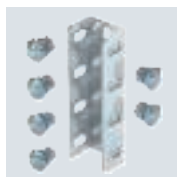
| Pack Piece | Weight kg/100 pc. | Item no. |
|------------|-------------------|----------|
| 1 | 64.800 | 6018509 |

U support connector to connect US 5 supports.
Including appropriate fastening material.

Connector, US7 supports

VUS 7 U support connector

St FT



Type

VUS 7 FT

| Pack Piece | Weight kg/100 pc. | Item no. |
|------------|-------------------|----------|
| 10 | 112.800 | 6018378 |

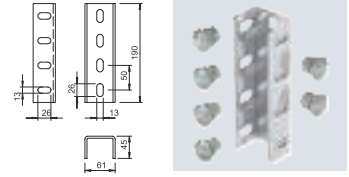
U support connector to connect US 7 supports.
Including appropriate fastening material.

VA 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.



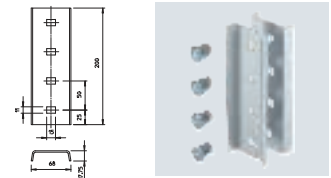
Connector, I supports

St FT

VIS 8 I support connector

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|------------|-------------------|----------|
| VIS 8 FT | 10 | 87.000 | 6018300 |

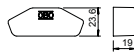
I support connector to connect IS 8 supports.
Including appropriate fastening material.



Accessories, TP supports

End cap

PE



| 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.

Spacer

St FS



| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---------|------------|-------------------|----------|
| DS 4 FS | 20 | 3.390 | 6416551 |

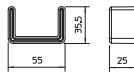
For static reasons, the spacer is always used to prevent the profile from deforming when the fastening bolts are tightened.

Spacer for use in profiles, type TP.

Accessories, US 3 supports

Protective cap

PE

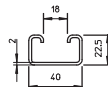


| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|---------------|------------|-------------------|----------|
| US 3 KS OR | Pastel orange | 20 | 1.068 | 6338458 |

Protective cap to cover the ends of US 3 supports.

DSK 25 spacer

St FT

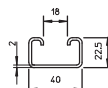


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------|-------------------|----------|
| DSK 25 FT | 20 | 7.500 | 6416446 |

Spacer for use in US 3 supports.

DSK 25 spacer

VA VA 2B



| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------|-------------------|----------|
| DSK 25 A2 | 10 | 7.500 | 6416448 |
| DSK 25 A4 | 10 | 7.500 | 6416450 |

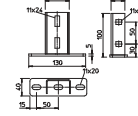
Spacer for use in US 3 supports.

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.

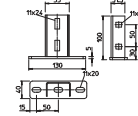


VA VA 2B

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.

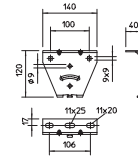


St FS FT

Head plate, variable

| 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.

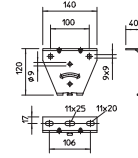


VA 2B

Head plate, variable

| 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.

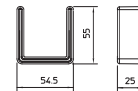


PE

End cap

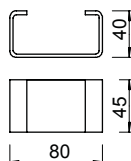
| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------------|---------------|------------|-------------------|----------------|
| US 5 KS OR | Pastel orange | 20 | 1.300 | 6338462 |

End cap to cover the ends of US 5 supports.



Spacer DSK 45

St FT

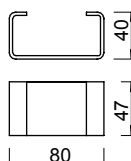


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------|-------------------|----------|
| DSK 45 FT | 20 | 18.000 | 6416500 |

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

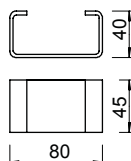


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------|-------------------|----------|
| DSK 47 FT | 20 | 19.000 | 6416504 |

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.

Spacer DSK 45

VA VA 2B

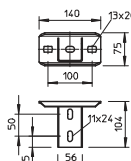


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------|-------------------|----------|
| DSK 45 A2 | 10 | 14.600 | 6416489 |
| DSK 45 A4 | 10 | 14.600 | 6416462 |

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.

Head plate US 5

St FT

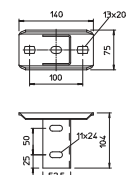


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|------------|-------------------|----------|
| KUS 5 FT | 1 | 61.900 | 6348904 |

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

Head plate US 5 NOK

St FT



| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|-------------------|----------|
| KUS 5 NOK FT | 1 | 75.000 | 6348939 |

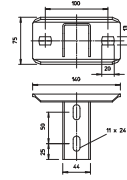
Head plate with U support mounting rotated 90°.
When installing the head plate, please use the spacer, type DSK 45.

VA 2B

Head plate US 5 NOK

| 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°.

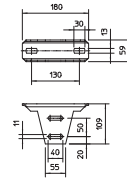


St FT

KU 5 head plate, variable

| 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.

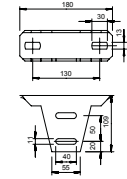


VA VA 2B

KU 5 head plate, variable

| 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.

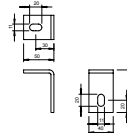


St FT

Mounting angle BW 70

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------------|------------|-------------------|----------------|
| BW 70 40 FT | 10 | 20.100 | 6019706 |

Including truss-head bolt M10 x 25.
Mounting angle of limb dimension 70 x 50 mm.



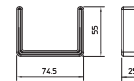
Accessories, US 7 supports

PE

End cap

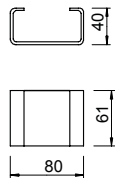
| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------------|---------------|------------|-------------------|----------------|
| US 7 KS OR | Pastel orange | 20 | 1.806 | 6338497 |

End cap to cover the ends of US 7 supports.



DSK 61 spacer

St FT

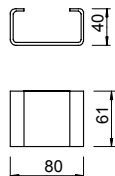


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|------------|-------------------|----------------|
| DSK 61 FT | 20 | 25.000 | 6416519 |

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.

DSK 61 spacer

VA VA 2B

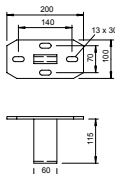


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|------------|-------------------|----------------|
| DSK 61 A2 | 10 | 20.200 | 6416527 |
| DSK 61 A4 | 10 | 20.200 | 6416533 |

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

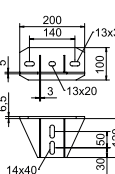


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|------------|-------------------|----------------|
| KU 7 FT | 1 | 144.600 | 6349102 |

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

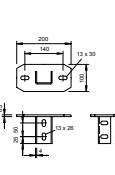


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------------|------------|-------------------|----------------|
| KU 7 NOX FT | 1 | 184.000 | 6349056 |

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

VA VA 2B



| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------------|------------|-------------------|----------------|
| KUS 7 A2 | 1 | 140.000 | 6349277 |
| KUS 7 A4 | 1 | 140.000 | 6349279 |

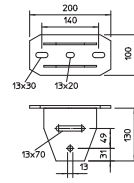
Please order fastening material (two truss-head bolts FRS 12 x 25) separately.
Heavy duty head plate for installation in US 7 supports.

St FT

Head plate, variable

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|------------|-------------------|----------|
| KU 7 VQP FT | 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.

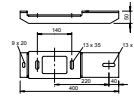


St FT

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.

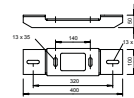


St FT

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.

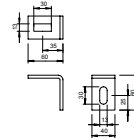


St FT

Mounting angle BW 60

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|------------|-------------------|----------|
| BW 60 40 FT | 10 | 23.000 | 6019560 |

Including truss-head bolt M12 x 25.
Mounting angle of limb dimension 60 x 60 mm.

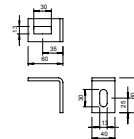


VA VA 2B

Mounting angle BW 60

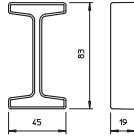
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|------------|-------------------|----------|
| BW 60 40 A2 | 10 | 16.000 | 6019587 |
| BW 60 40 A4 | 10 | 16.000 | 6019583 |

Including truss-head bolt M12 x 25.
Mounting angle of limb dimension 60 x 60 mm.



End cap

PE

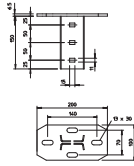


| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|---------------|------------|-------------------|----------|
| IS 8 KS OR | Pastel orange | 20 | 0.705 | 6338519 |

End cap to cover the ends of IS 8 supports.

Head plate, longitudinal

St FT



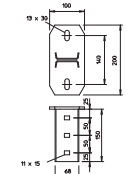
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---------|------------|-------------------|----------|
| KI 8 FT | 1 | 155.000 | 6347053 |

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.

Head plate, transverse

St FT



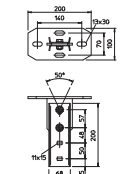
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|------------|-------------------|----------|
| KI 8 NOK FT | 1 | 158.400 | 6347061 |

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.

Head plate, variable

St FT



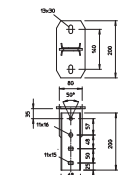
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|------------|-------------------|----------|
| KI 8 VQP FT | 1 | 219.000 | 6348106 |

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.

Head plate, variable

St FT



| 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.

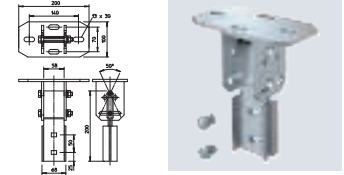
Variable head plate, adjustable in straight direction, for installation on IS 8 support.

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.

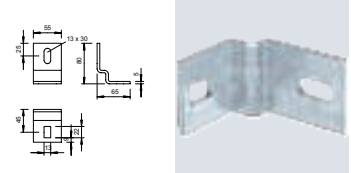


St FT

Mounting angle BW 80

| 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.

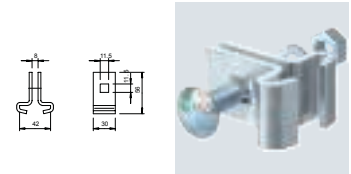


St FT

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.

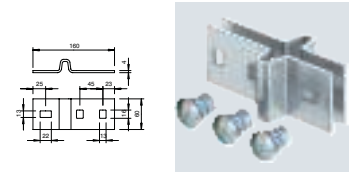


St FT








Support strap

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|------------|-------------------|----------------|
| AHIS 8 FT | 10 | 89.900 | 6019064 |

Including appropriate fastening material.
Support strap for right-angled connection of I supports.



Selection aid, support and bracket combinations

| | | US 3 K | | US 5 K | | US 7 K | | |
|------------------------------|---|---|---|---|-------------|---|-------------|---|
| | |  | |  | |  | | |
| | | With DSK | Without DSK | With DSK | Without DSK | With DSK | Without DSK | |
| | | Bracket width in mm | | | | | | |
| MWA 12 MWAM 12 MWAG 12 |  | 110 | - | ● | - | ● | - | ● |
| | | 210 | - | ● | - | ● | - | ● |
| | | 310 | - | ● | - | ● | - | ● |
| | | 410 | ● | - | ● | - | ● | - |
| AW 15 AWG 15 |  | 110 | - | ● | - | ● | - | ● |
| | | 160 | - | ● | - | ● | - | ● |
| | | 210 | - | ● | - | ● | - | ● |
| | | 310 | - | ● | - | ● | - | ● |
| | | 410 | ● | - | ● | - | ● | - |
| | | 510 | ● | - | ● | - | ● | - |
| | | 560 | ● | - | ● | - | ● | - |
| | | 610 | ● | - | ● | - | ● | - |
| AW 30 |  | 110 | - | - | - | ● | - | ● |
| | | 160 | - | - | - | ● | - | ● |
| | | 210 | - | - | - | ● | - | ● |
| | | 260 | - | - | - | ● | - | ● |
| | | 310 | - | - | - | ● | - | ● |
| | | 410 | - | - | ● | - | ● | - |
| | | 510 | - | - | ● | - | ● | - |
| | | 560 | - | - | ● | - | ● | - |
| | | 610 | - | - | ● | - | ● | - |
| | | 710 | - | - | ● | - | ● | - |
| | | AW 55 |  | 210 | - | - | ● | - |
| 310 | - | | | - | ● | - | ● | - |
| 410 | - | | | - | - | - | ● | - |
| 510 | - | | | - | - | - | ● | - |
| 560 | - | | | - | - | - | ● | - |
| 610 | - | | | - | - | - | ● | - |
| 710 | - | | | - | - | - | ● | - |
| 810 | - | | | - | - | - | ● | - |

● Suitable
- Not suitable

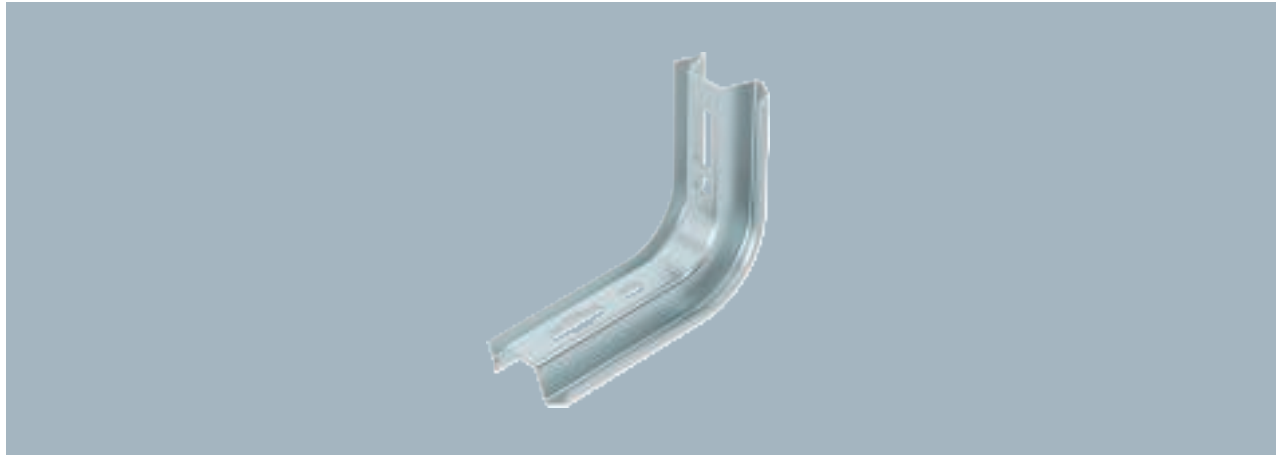


With DSK (spacer)



Without DSK (spacer)

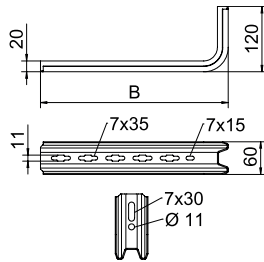
TPSA TP support/wall and support bracket



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 | F in kN | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|--------------|---------|------------|-------------------|----------|
| TPSA 145 FS | 100 | 1.5 | 1 | 32.300 | 6364101 |
| TPSA 245 FS | 200 | 0.9 | 1 | 46.000 | 6364209 |
| TPSA 345 FS | 300 | 0.55 | 1 | 60.000 | 6364306 |

Dimensions



| Type | Dim. B mm |
|-------------|-----------|
| TPSA 145 FS | 145 |
| TPSA 245 FS | 245 |
| TPSA 345 FS | 345 |

Load

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 |
| BZ-U 10-30-50/110 | 1.5 | 1 | 0.9 |

TPSA TP support/wall and support bracket



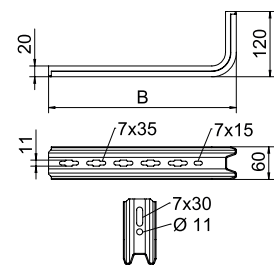
| Type | for width mm | F in kN | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|--------------|---------|------------|-------------------|----------|
| TPSA 145 FT | 100 | 1.5 | 1 | 33.000 | 6364659 |
| TPSA 245 FT | 200 | 0.9 | 1 | 47.000 | 6364667 |
| TPSA 345 FT | 300 | 0.55 | 1 | 62.000 | 6364675 |

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 FT | 145 |
| TPSA 245 FT | 245 |
| TPSA 345 FT | 345 |

Dimensions



| 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 $F = \text{cable weight} + \text{cable tray} + \text{bracket}$. 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).

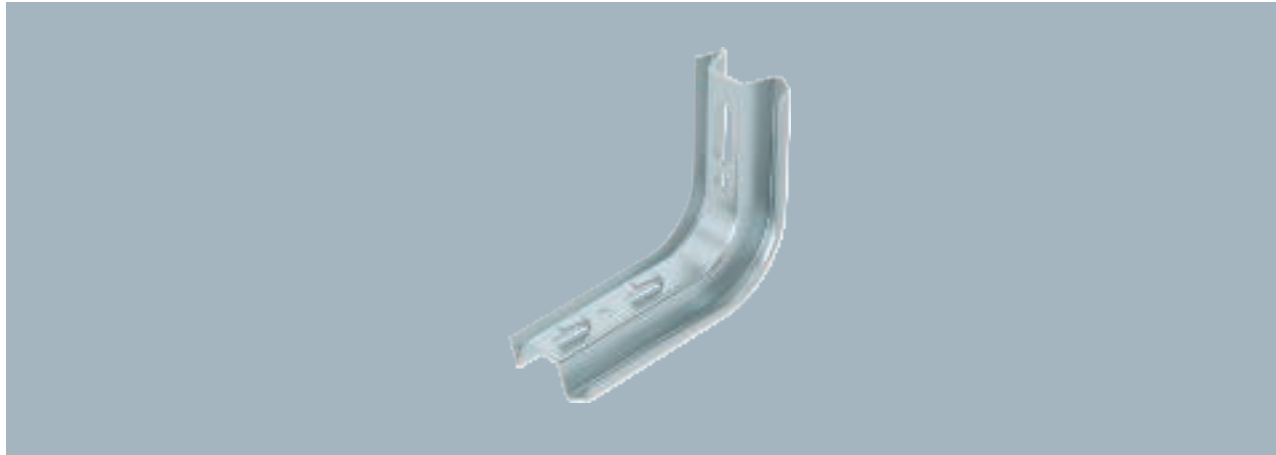
Characteristic anchor load values for TP brackets

| Anchor type | Wall fastening | | | |
|-------------------|------------------|--------------------|-----|------|
| | Max. load F [kN] | Bracket width [mm] | | |
| | | 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 |

Load

St FS

TPSAG TP support/wall and support bracket

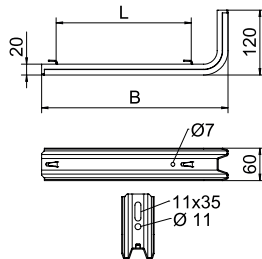


If the bracket is fastened directly to the wall or the profiles are screwed together, then, for reasons of stability, always use the spacer, type DS 4.

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

| Type | for width mm | F in kN | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|--------------|---------|------------|-------------------|----------|
| TPSAG 145 FS | 100 | 1.5 | 1 | 33.000 | 6366015 |
| TPSAG 195 FS | 150 | 1 | 1 | 41.000 | 6366023 |
| TPSAG 245 FS | 200 | 0.9 | 1 | 48.000 | 6366031 |
| TPSAG 345 FS | 300 | 0.55 | 1 | 61.000 | 6366066 |

Dimensions



| 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

Characteristic anchor load values for TP bracket - wall fastening

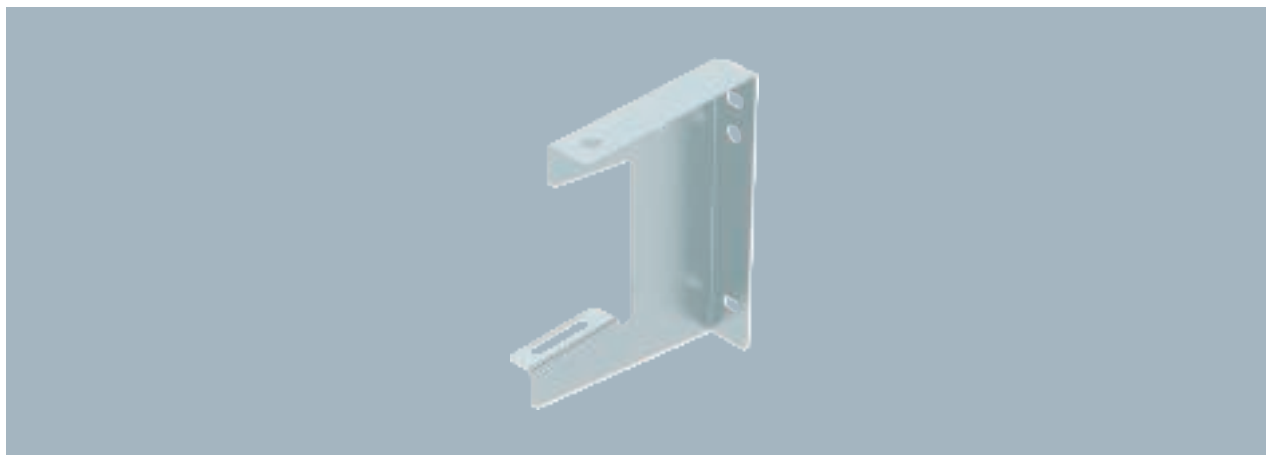
| Item on test | Force F (SWL) | Width B |
|--------------|---------------|---------|
| TPSA 145 FT | 0.15 kN | 145 mm |
| TPSA 195 FT | 1 kN | 195 mm |
| TPSA 245 FT | 0.950 kN | 245 mm |
| TPSA 345 FT | 0.55 kN | 345 mm |

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 | 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 |

Wall and ceiling bracket

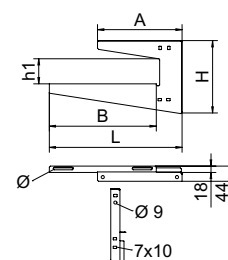


Wall and ceiling bracket for universal structural fastening.

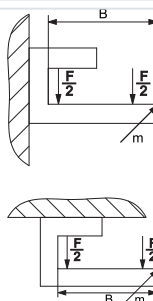
| Type | for width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|--------------|------------|-------------------|----------|
| WDB L 50 FS | 50 | 1 | 11.000 | 6363700 |
| WDB L 100 FS | 100 | 1 | 15.000 | 6363702 |
| WDB L 150 FS | 150 | 1 | 24.000 | 6363704 |
| WDB L 200 FS | 200 | 1 | 33.000 | 6363706 |
| WDB L 300 FS | 300 | 1 | 52.000 | 6363708 |
| WDB L 400 FS | 400 | 1 | 73.000 | 6363710 |

| Type | Dim. A mm | Dim. B mm | Dim. H mm | Dimen- sion 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 |

Dimensions



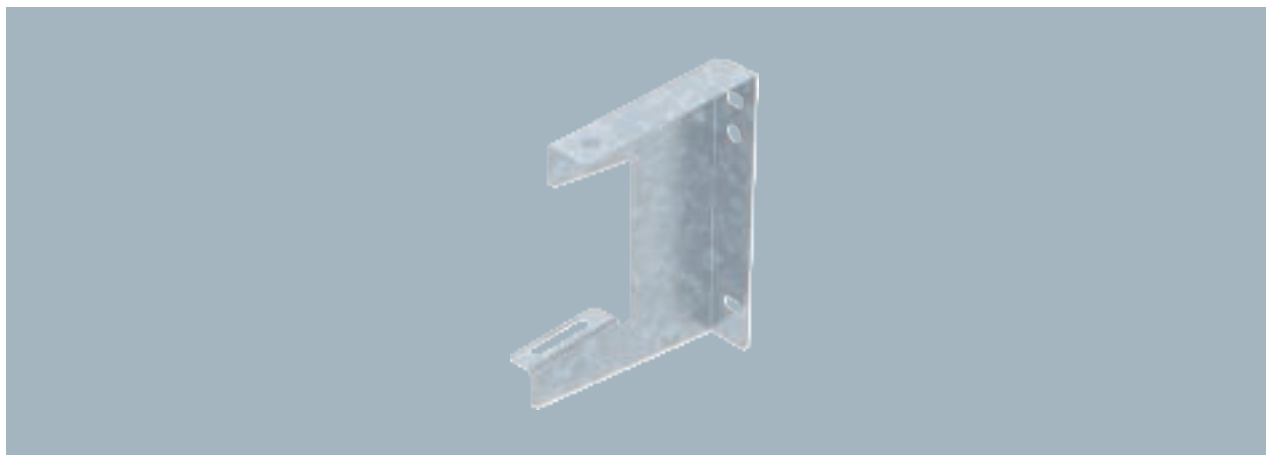
| Anchor type | Max. load [kN] | Bracket length [mm] | | | | |
|-----------------|----------------|---------------------|------|------|------|------|
| | 50 | 100 | 150 | 200 | 300 | 400 |
| BZ-U 8-30-41/95 | 0.40 | 0.25 | 0.22 | 0.30 | 0.20 | 0.12 |



Load

St FT

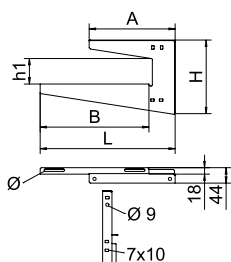
Wall and ceiling bracket



Wall and ceiling bracket for universal structural fastening.



| Type | for width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|--------------|------------|-------------------|----------|
| WDB L 50 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 |

Dimensions

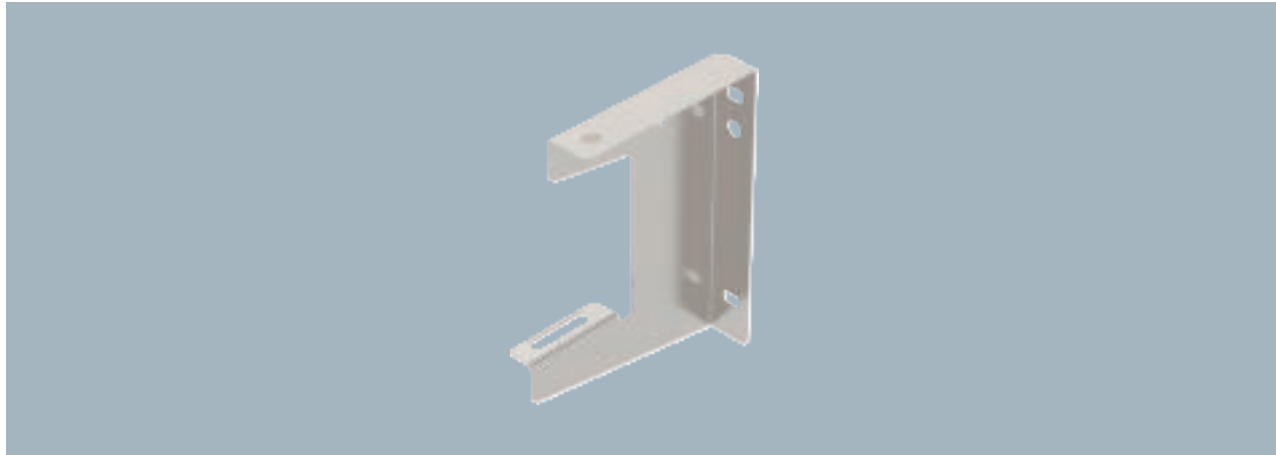


| Type | Dim. A mm | Dim. B mm | Dim. H mm | Dimen-sion h1 mm | Dim. L mm |
|--------------|-----------|-----------|-----------|------------------|-----------|
| WDB L 50 FT | 115 | 60 | 170 | 92 | 130 |
| WDB L 100 FT | 145 | 110 | 179 | 88 | 185 |
| WDB L 150 FT | 170 | 160 | 186 | 84 | 235 |
| WDB 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 |

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 |

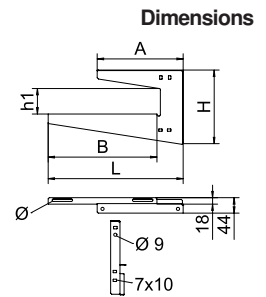
Wall and ceiling bracket



| 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 |

Wall and ceiling clamp for universal structural fastening.

| Type | Dim. A mm | Dim. B mm | Dim. H mm | Dimen- sion 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 |



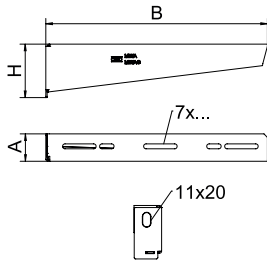
Wall and support bracket MWA 12



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 |
| 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 |

Dimensions



| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|---------------|-----------|-----------|-----------|-----------|
| MWA 12 11S FS | 110 | 325 | 53 | 11 |
| MWA 12 21S FS | 210 | 325 | 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

Characteristic anchor load values for wall and support bracket MWA 12 - wall fastening

| Max. load F [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).

Wall and support bracket MWAG 12

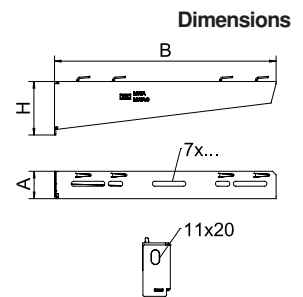


| Type | Width mm | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------------|-------------|---------------|---------------|----------------------|----------------|
| MWAG 12 11 FS | 110 | 1.2 | 1 | 12.700 | 6424600 |
| MWAG 12 21 FS | 210 | 1.2 | 1 | 24.400 | 6424608 |
| MWAG 12 31 FS | 310 | 1.2 | 1 | 50.300 | 6424616 |
| MWAG 12 41 FS | 410 | 1.2 | 1 | 68.000 | 6424624 |

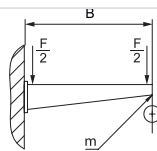
Including truss-head bolt M10 x 25 for fastening to U supports.

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

| Type | 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 |



| 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 | 410 |
| BZ-U 10-10-30/90 | 1.2 | 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

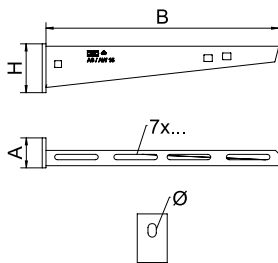
Wall and support bracket AW 15



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.

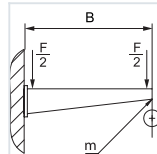
| Type | Width mm | Dim. H mm | Dim. A mm | Dim. B mm | Hole Ø mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|-------------|-----------------|-----------------|-----------------|--------------|---------------|----------------------|----------|
| AW 15 11 FT | 110 | 50 | 40 | 110 | 11 | 1 | 13.100 | 6420656 |
| AW 15 16 FT | 160 | 55 | 40 | 160 | 11 | 1 | 20.000 | 6420664 |
| AW 15 21 FT | 210 | 60 | 40 | 210 | 11 | 1 | 24.000 | 6420680 |
| AW 15 31 FT | 310 | 65 | 40 | 310 | 11 | 1 | 38.400 | 6420710 |
| AW 15 41 FT | 410 | 70 | 40 | 410 | 11 | 1 | 54.000 | 6420745 |
| AW 15 51 FT | 510 | 75 | 40 | 510 | 11 | 1 | 67.300 | 6420788 |
| AW 15 61 FT | 610 | 80 | 40 | 610 | 11 | 1 | 85.000 | 6420826 |

Dimensions



| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|-------------|-----------------|-----------------|-----------------|--------------|
| AW 15 11 FT | 110 | 40 | 50 | 11 |
| AW 15 16 FT | 160 | 40 | 55 | 11 |
| AW 15 21 FT | 210 | 40 | 60 | 11 |
| AW 15 31 FT | 310 | 40 | 65 | 11 |
| AW 15 41 FT | 410 | 40 | 70 | 11 |
| AW 15 51 FT | 510 | 40 | 75 | 11 |
| AW 15 61 FT | 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 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

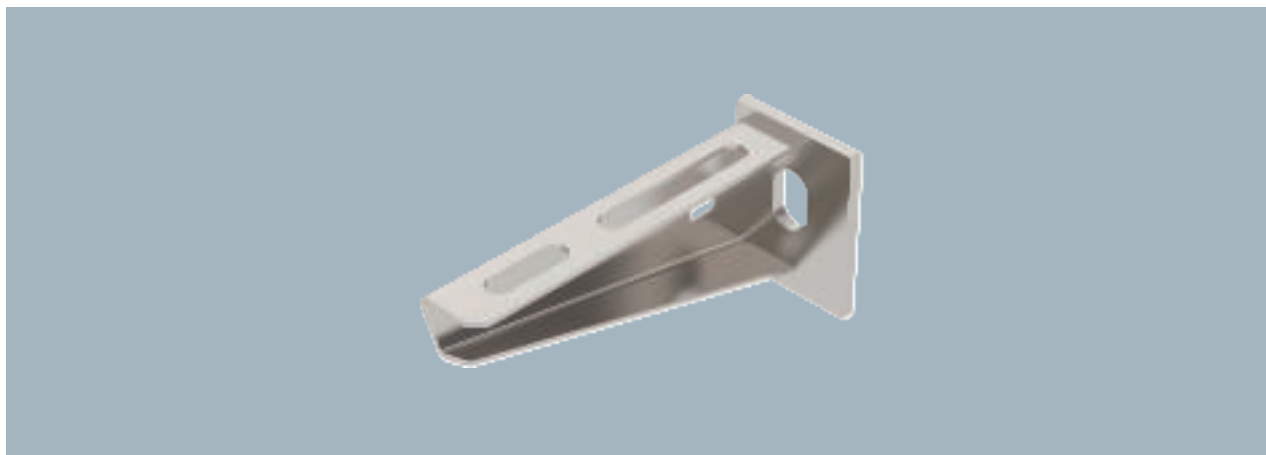
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for AW15 wall bracket – wall fastening

| Load [kN] | | | | |
|--------------------|-----|------|-----|------|
| 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).

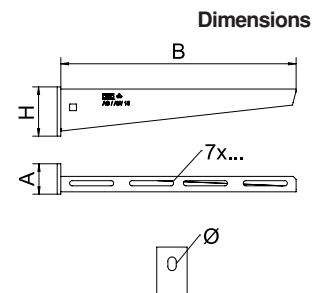
Wall and support bracket AW 15



| Type | Width mm | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|-------------|---------------|---------------|----------------------|----------|
| AW 15 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 |

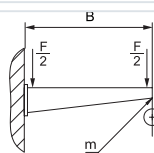
Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.
Light-duty wall and support bracket with welded head plate.

| 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 |



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

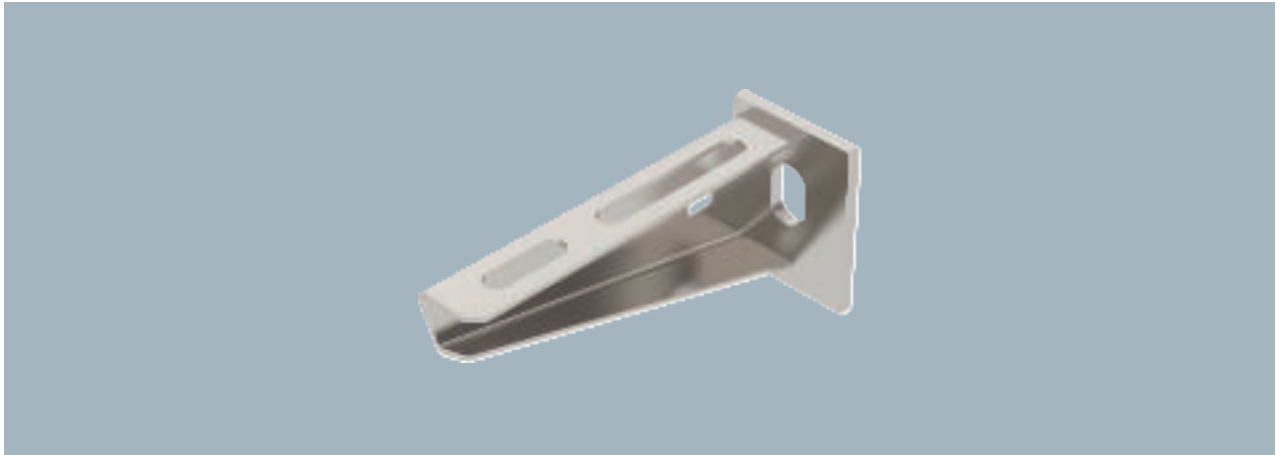
Max. total load F = Cable weight + cable tray + bracket

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 | 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).

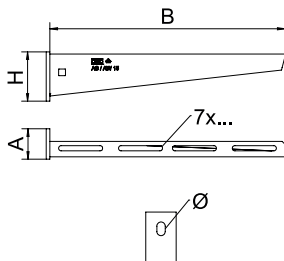
Wall and support bracket AW 15



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 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 2L

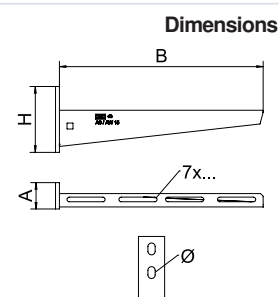


| Type | Width mm | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|-------------|---------------|---------------|----------------------|----------|
| AW 15 11 FT 2L | 110 | 1.5 | 30 | 16.000 | 6420909 |
| AW 15 16 FT 2L | 160 | 1.5 | 30 | 20.000 | 6420912 |
| AW 15 21 FT 2L | 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 |

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

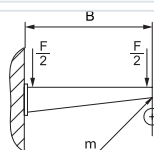
The double-perforated bracket offers the special option of double anchoring on lightweight partitions and light masonry.

| Type | 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 |



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 |



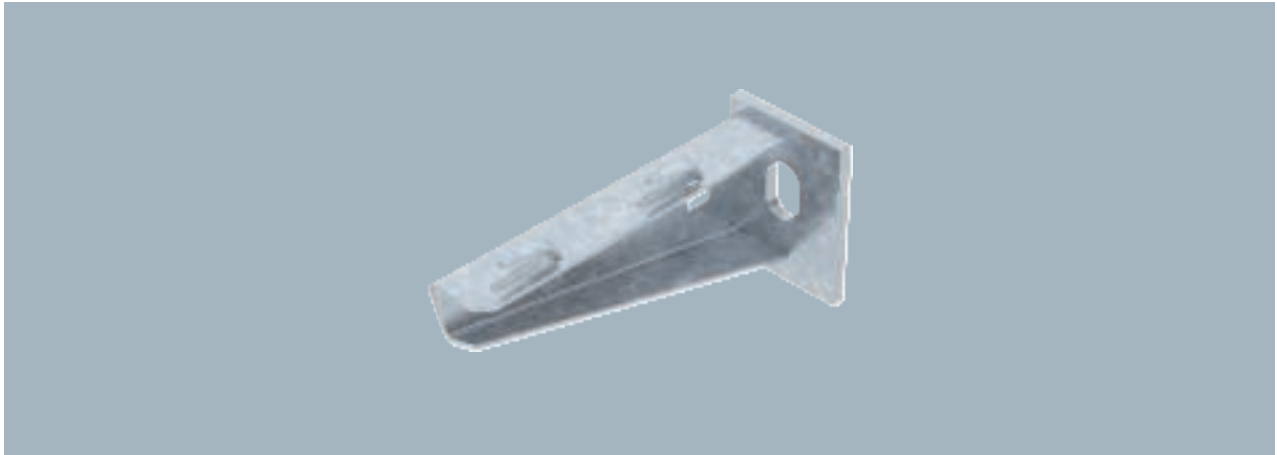
Max. total load $F = \text{cable weight} + \text{cable tray} + \text{bracket}$. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Characteristic anchor load values for AW15 wall bracket – wall fastening

| Load [kN] | 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 |

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

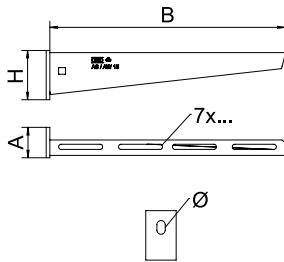


Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate for screwless mesh cable tray fastening.

| Type | Width | | F in kN | | BS | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|-------|-----|---------|-----|----|------------|-------------------|----------|
| | mm | kN | | | | | | |
| 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 | 60 | 40 | 210 | 11 | 1 | 26.000 | 6420608 |
| AW G 15 31 FT | 310 | 65 | 40 | 310 | 11 | 1 | 35.000 | 6420610 |
| AW G 15 41 FT | 410 | 70 | 40 | 410 | 11 | 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. | Dim. | Dim. | Hole Ø |
|---------------|------|------|------|--------|
| | B | A | H | |
| 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 |

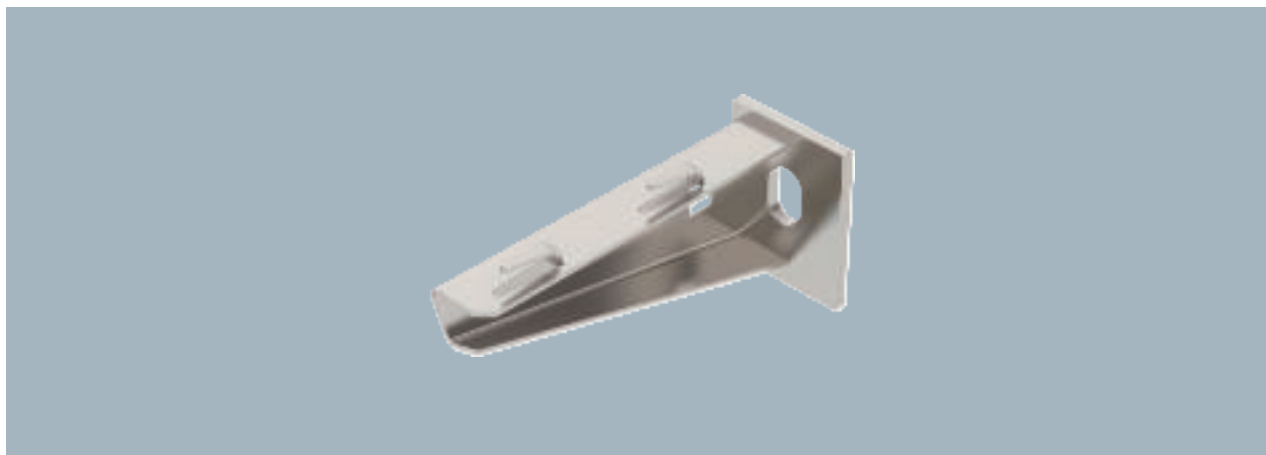
Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for AW G 15 wall bracket – wall fastening

| Load [kN] | | | | |
|--------------------|-----|------|-----|------|
| 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 AWG 15

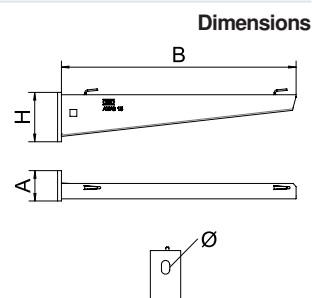


| Type | Width mm | F in kN | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|-------------|---------|---------------|----------------------|----------|
| AWG 15 11 A2 | 110 | 1.5 | 1 | 13.000 | 6420625 |
| AWG 15 21 A2 | 210 | 1.5 | 1 | 25.000 | 6420628 |
| AWG 15 41 A2 | 410 | 1.5 | 1 | 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.

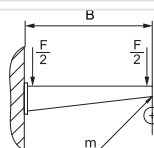
Light-duty wall and support bracket with welded head plate for screwless mesh cable tray fastening.

| 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 41 A2 | 410 | 40 | 70 | 11 |
| AWG 15 51 A2 | 510 | 40 | 75 | 11 |
| AWG 15 61 A2 | 610 | 40 | 80 | 11 |



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

Characteristic anchor load values for AW G 15 wall bracket – wall fastening

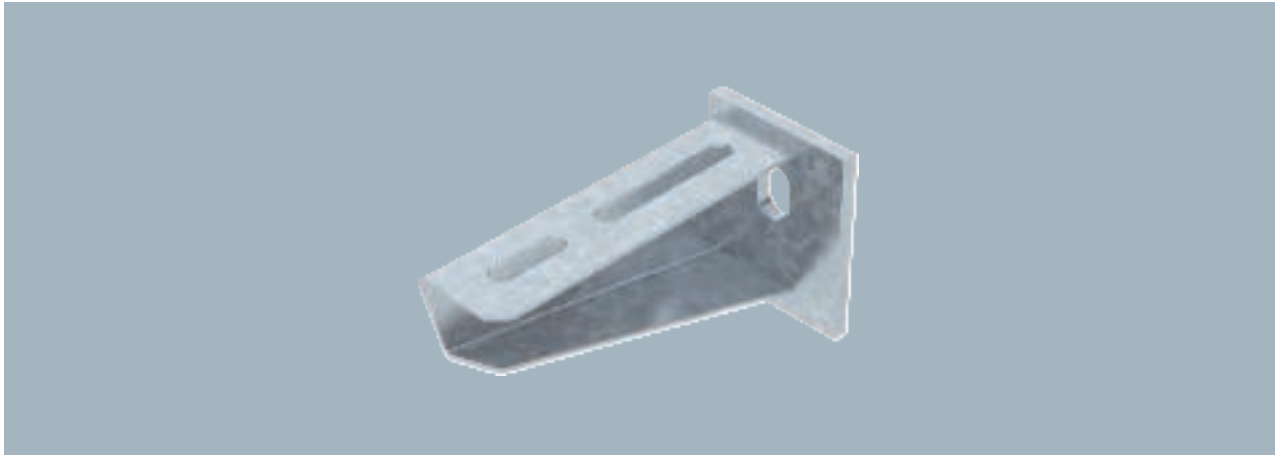
| Load [kN] | 110 | 210 | 310 | 410 |
|--------------------|-----|------|-----|------|
| Bracket width [mm] | 110 | 210 | 310 | 410 |
| Anchor type | | | | |
| BZ-U 8-10-21/75 | 1.2 | 0.95 | 0.7 | 0.65 |
| BZ-U 10-10-30/90 | 1.2 | 1.2 | 1.2 | 1.2 |

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).

Load

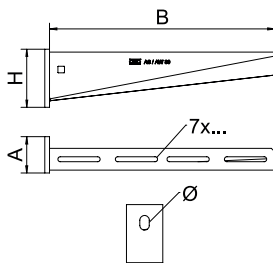
Wall and support bracket AW 30



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 | BS | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|----------|---------|----|------------|-------------------|----------|
| 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 61 FT | 610 | 3 | | 1 | 157.000 | 6419828 |
| AW 30 71 FT | 710 | 3 | | 1 | 207.000 | 6419836 |

Dimensions



| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|-------------|-----------|-----------|-----------|-----------|
| AW 30 11 FT | 110 | 50 | 60 | 11 |
| AW 30 16 FT | 160 | 50 | 65 | 11 |
| AW 30 21 FT | 210 | 50 | 70 | 13 |
| AW 30 31 FT | 310 | 50 | 80 | 13 |
| AW 30 41 FT | 410 | 50 | 80 | 13 |
| AW 30 51 FT | 510 | 50 | 90 | 13 |
| AW 30 61 FT | 610 | 50 | 100 | 13 |
| AW 30 71 FT | 710 | 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 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 |

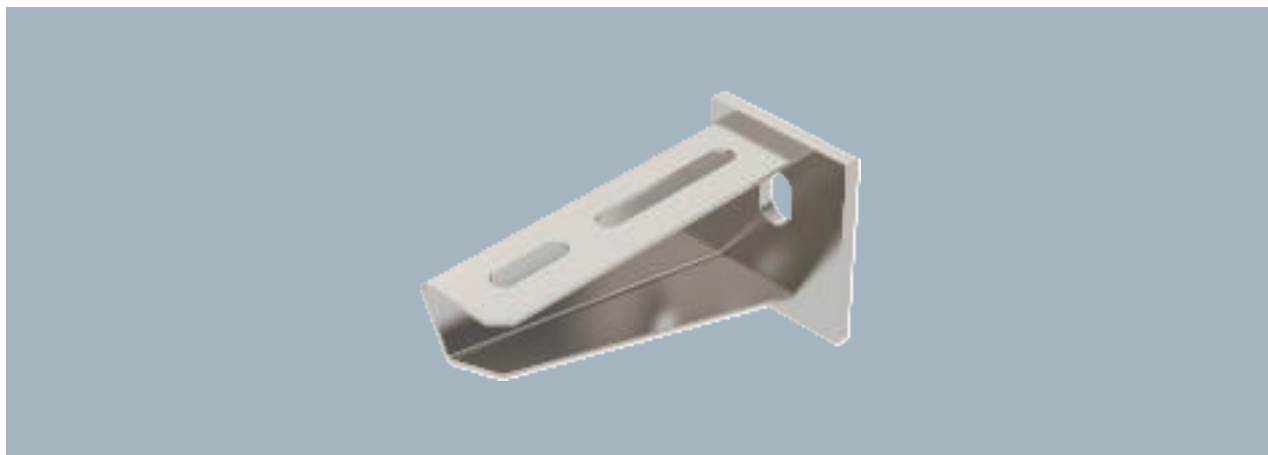
Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

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 |
| 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).

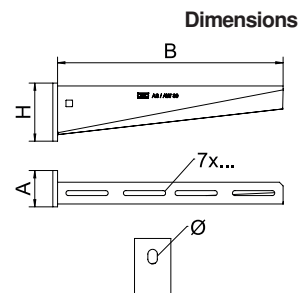
Wall and support bracket AW 30



| Type | Width mm | F in 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 |

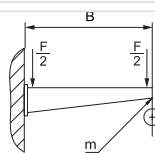
Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.
Medium-duty wall and support bracket with welded head plate.

| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|-------------|-----------|-----------|-----------|-----------|
| AW 30 11 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 |



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

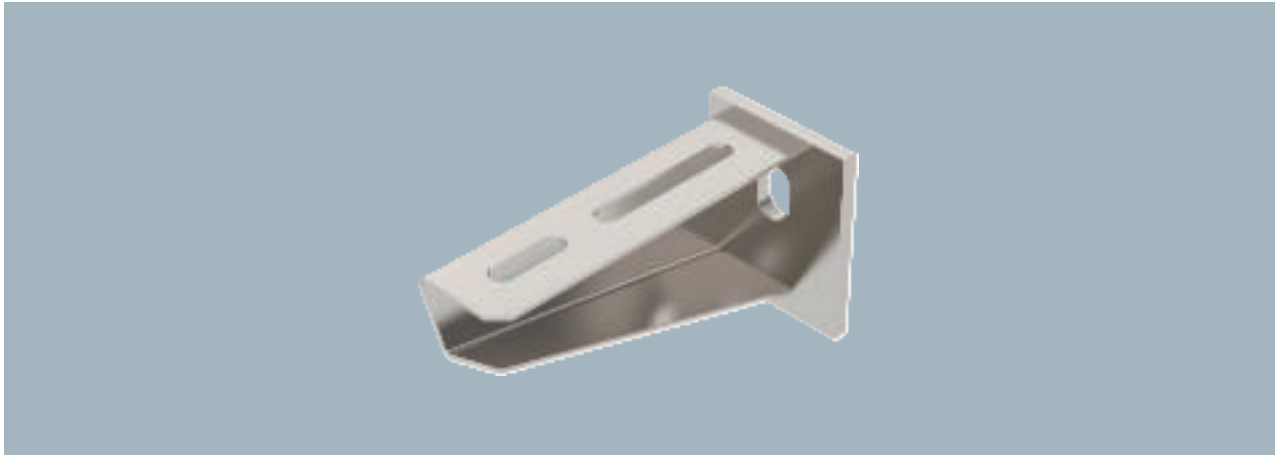
Characteristic anchor load values for AW 30 wall and support bracket – wall fastening

| 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).

Load

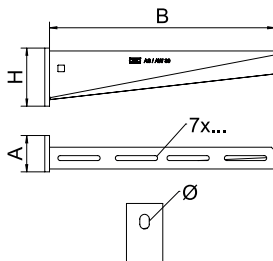
Wall and support bracket AW 30



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 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 |

Dimensions



| 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 |

Load

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 |

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).

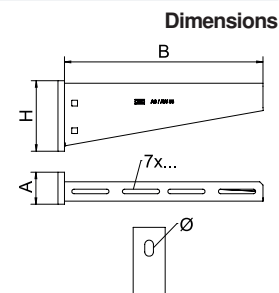
Wall and support bracket AW 55



| 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 |

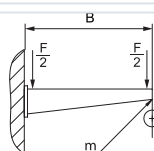
Heavy-duty wall and support bracket with welded head plate.
Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|--------------|-----------------|-----------------|-----------------|--------------|
| AW 55 21 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 |



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 | |
| 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).

Load

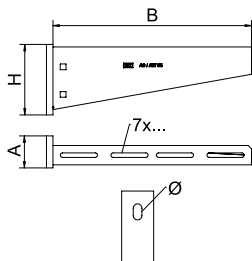
Wall and support bracket AW 55



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 | 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 |

Dimensions



| 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 |

Load

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 |

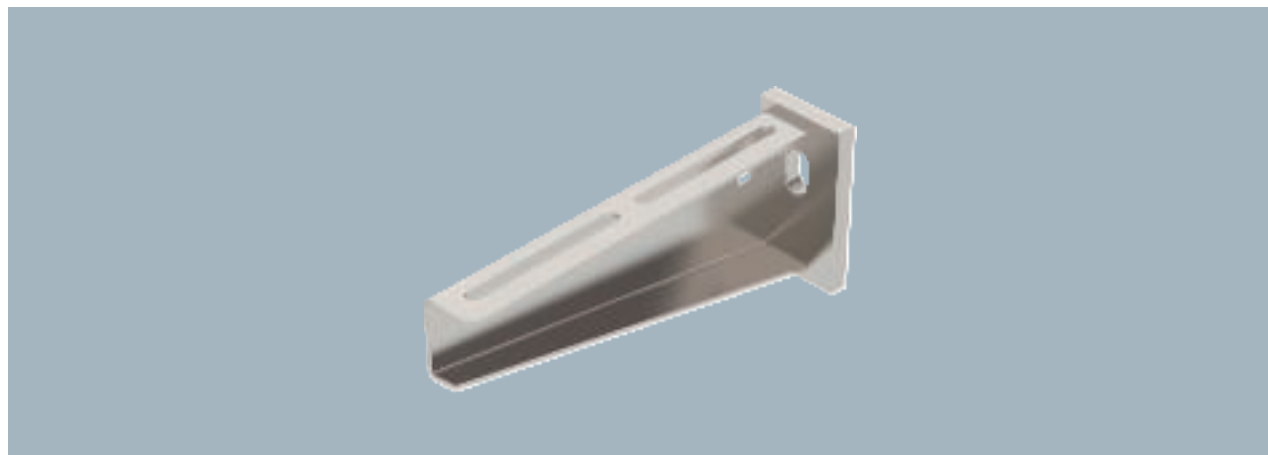
Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

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 |
| 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).

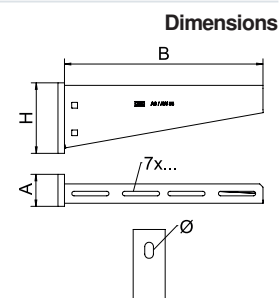
Wall and support bracket AW 55



| 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 |

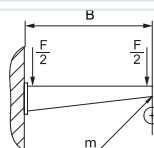
Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.
Heavy-duty wall and support bracket with welded head plate.

| Type | 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 |



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] | 210 | 310 | 410 | 510 | 560 | 610 | 710 |
|--------------------|------|------|------|------|------|------|------|
| 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).

Load

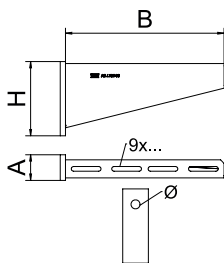
Wall bracket AW 80



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 | Width mm | F in 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 |

Dimensions



| 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 |

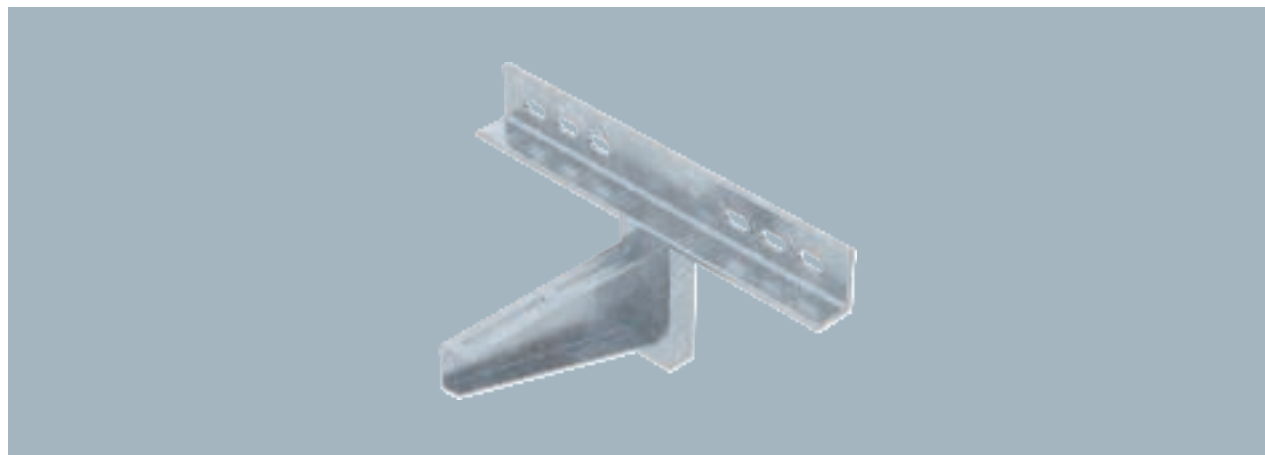
Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for AW 80 wall and support bracket – wall fastening

| Load [kN] | 210 | 310 | 410 | 510 | 610 | 710 | 810 |
|--------------------|------|-----|-----|-----|------|-----|-----|
| Bracket width [mm] | | | | | | | |
| Anchor type | | | | | | | |
| BZ 12-15-35/110 | 4.75 | 4.6 | 4.5 | 4.5 | 4.25 | 3.8 | 3.5 |
| BZ 16-15-35/135 | 6.5 | 6.7 | 5.8 | 5.6 | 5.3 | 4.6 | 4.3 |

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

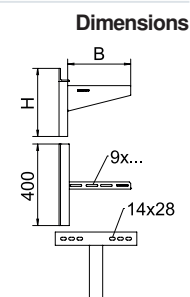


| Type | Width mm | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|-------------|---------------|---------------|----------------------|----------|
| AWSS 21 FT | 210 | 10 | 1 | 305.100 | 6417906 |
| AWSS 31 FT | 310 | 10 | 1 | 533.600 | 6417910 |
| AWSS 41 FT | 410 | 10 | 1 | 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 |

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.

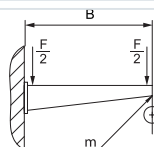
Wall bracket, heavy duty.

| Type | Dim. B mm | Dim. A mm | Dim. H mm | Hole Ø mm |
|-------------|-----------------|-----------------|-----------------|--------------|
| AWSS 21 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 |



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 | | | | | | | | | | |
| BZ 12-15-35/110 | 10 | 10 | 10 | 10 | 10 | 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.

Load

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 |

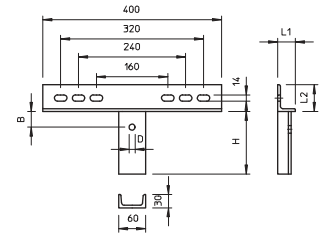
The bracket types AW 30, AW 55 ad AW 80 can be screwed to the adapter plate.
Please order the hexagonal bolt for bracket mounting (type SKS 12 x 40 GF) separately.
Adapter plate with slots for universal fastening to vertical steel girders and walls.

Adapter plate KA-AW 30



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

Dimensions



St FT

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|------------|-------------------|----------|
| KA-E 45 FT | 1 | 618.000 | 6346758 |

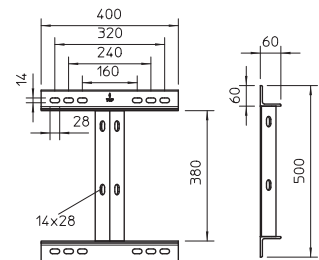
To support cable support systems in building corners and jumps. The hexagonal bolts, type SKS 12 x 40 GF, are used to fasten the brackets to the adapter plate. Please order the appropriate quantity.
Adapter plate with slots for universal fastening to vertical steel girders and walls. Wall and support brackets are screwed to the adapter plate at a 45° angle.

Adapter plate 45°



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

Dimensions

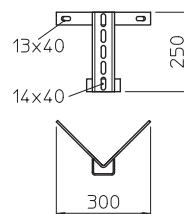


St FT

| 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.

Corner seat



Support bracket AS 15



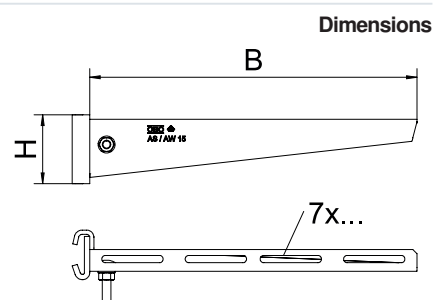
| Type | Width mm | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|-------------|---------------|---------------|----------------------|----------|
| AS 15 11 FT | 110 | 1.5 | 1 | 27.400 | 6421326 |
| AS 15 16 FT | 160 | 1.5 | 1 | 32.800 | 6421334 |
| AS 15 21 FT | 210 | 1.5 | 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.

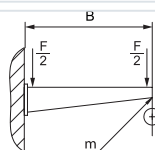
Light-duty support bracket for infinitely adjustable fastening on IS 8 support.

| 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 |



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 710–1010 mm took place at the maximum route width (600 mm) with the load at the end of the bracket.

Load

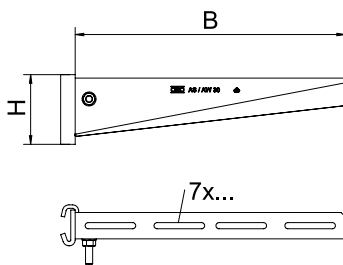
Support bracket AS 30



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.

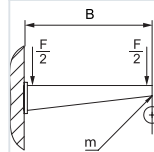
| Type | Width mm | F in kN kN | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|-------------|---------------|---------------|----------------------|----------|
| AS 30 11 FT | 110 | 3 | 1 | 30.000 | 6419370 |
| AS 30 16 FT | 160 | 3 | 1 | 37.000 | 6419376 |
| AS 30 21 FT | 210 | 3 | 1 | 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



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.

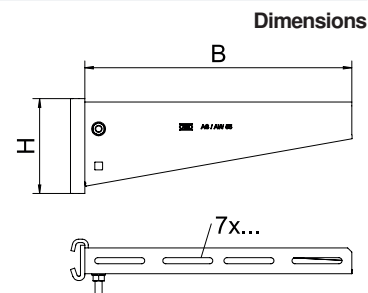
Support bracket AS 55



| 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 |

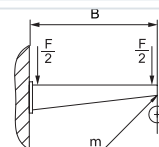
The support bracket can be fastened to both sides of the I support.
The individual clamping lug, including bolt, nut and washer can also be ordered separately under the item no. 6419007.
Heavy-duty support bracket for infinitely adjustable fastening on IS 8 support.

| 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 |



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.

Load

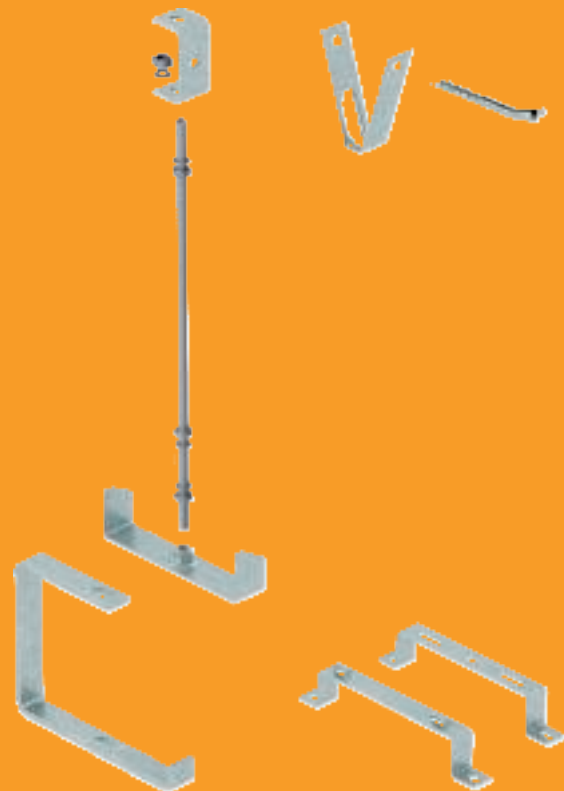




Universal systems

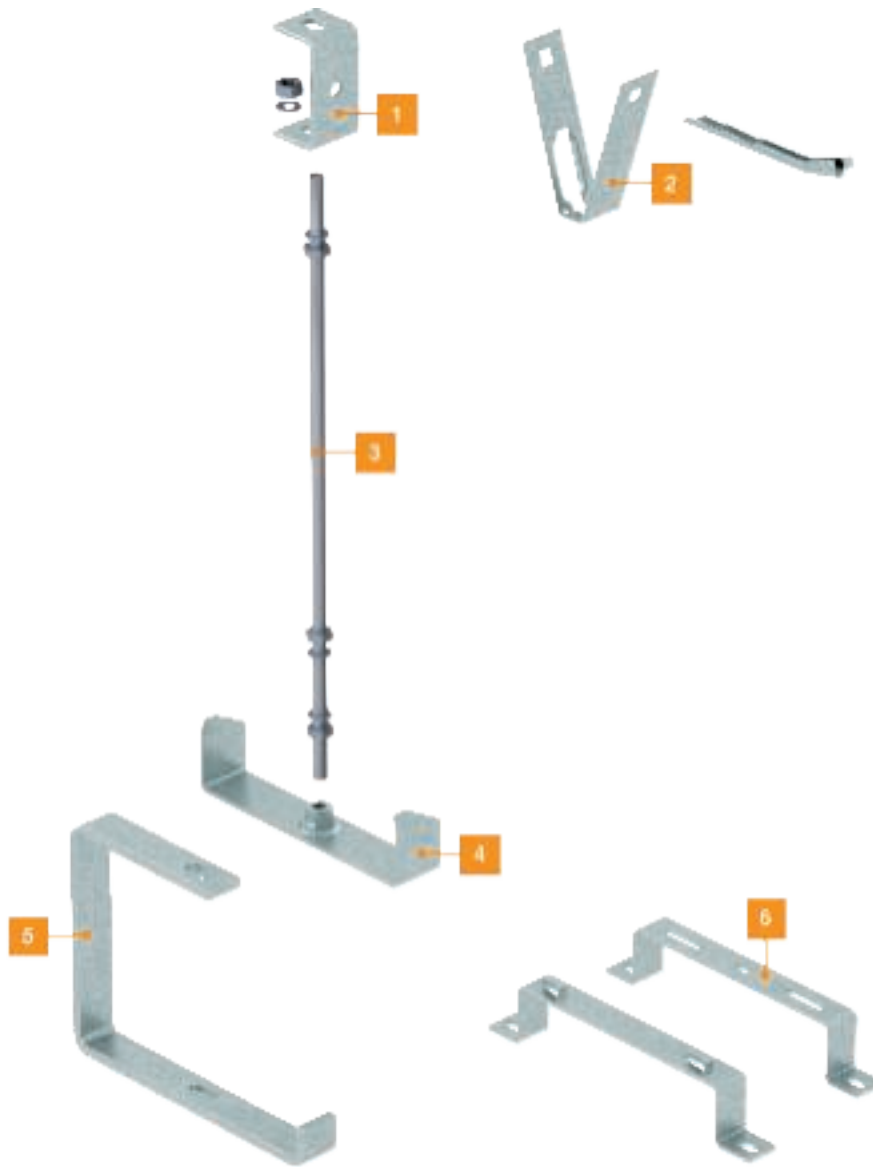
Universal systems for cable support structures are used for small loads. Whether the installation is to be a ceiling fastening, wall fastening or a floor stand-off: In the universal systems, you can find functional fastenings with matching system accessories for any application.

- Simple suspension
- Centre suspension
- Suitable for mesh cable trays and cable trays
- Floor mounting
- Matching system accessories



Universal systems

Installation principle



| | | |
|---|-----------------------|------------------|
| 1 | Ceiling bracket | DB |
| 2 | Trapezoidal fastening | TPB |
| 3 | Threaded rod | TR |
| 4 | Centre suspension | MAH 35 |
| 5 | Suspension clamp | AHB-T1712 VA4547 |
| 6 | Stand-off bracket | DBL 50 |



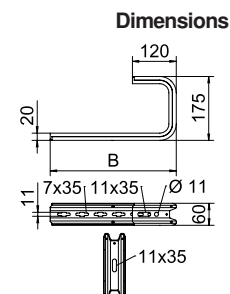
TP wall and ceiling bracket



| Type | for width mm | F in kN ceiling | F in kN wall | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|--------------|-----------------|--------------|------------|-------------------|----------|
| 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 |



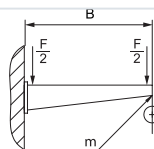
Load diagram, ceiling bracket TPD

- 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 F [kN] | 145 | 245 | 345 | 445 | 545 |
|---------------------|-----|-----|------|------|------|
| Bracket length [mm] | 145 | 245 | 345 | 445 | 545 |
| Anchor type | | | | | |
| BZ-U 8-30-41/95 | 1 | 0.7 | 0.5 | 0.4 | 0.3 |
| BZ-U 10-30-50/110 | 1.5 | 0.9 | 0.55 | 0.45 | 0.35 |

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.

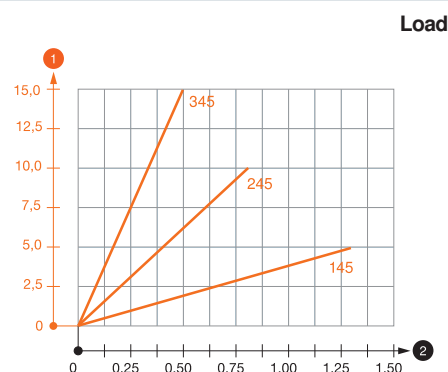


Characteristic anchor load values for TPD wall and ceiling bracket

| Anchor type | Max. load [kN] | | | | |
|-------------------|---------------------|------|------|------|------|
| | Bracket length [mm] | | | | |
| | 145 | 245 | 345 | 445 | 545 |
| BZ-U 8-30-41/95 | 1,00 | 0,70 | 2,40 | 0,40 | 0,30 |
| BZ-U 10-30-50/110 | 1,50 | 0,90 | 0,55 | 0,45 | 0,35 |

| Anchor type | Max. load F [kN] | | | | |
|-------------------|--------------------|------|------|------|------|
| | Bracket width [mm] | | | | |
| | 145 | 245 | 345 | 445 | 545 |
| BZ-U 8-30-41/95 | 1,30 | 1,30 | 2,40 | 0,35 | 0,25 |
| BZ-U 10-30-50/110 | 1,30 | 1,30 | 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.



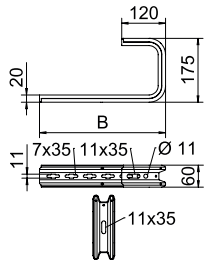
TP wall and ceiling bracket



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.

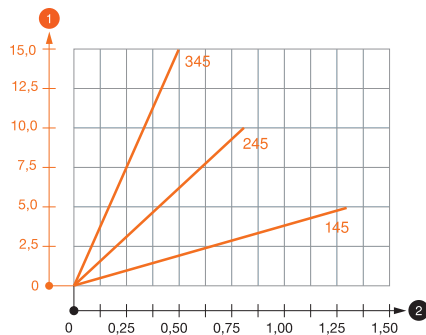
| Type | for width mm | F in kN ceiling | F in kN wall | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|--------------|-----------------|--------------|------------|-------------------|----------|
| TPD 145 FT | 100 | 1.3 | 1.4 | 1 | 54.000 | 6363861 |
| TPD 245 FT | 200 | 0.8 | 0.87 | 1 | 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

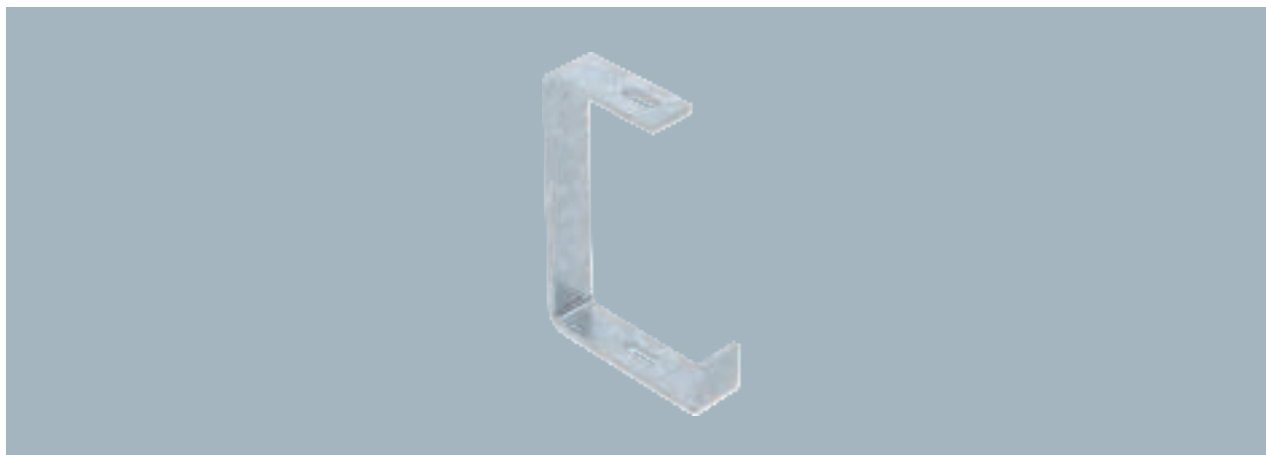
Characteristic anchor load values for TPD wall and ceiling bracket

| | | Wall fastening | | | | | |
|--|-------------------|---------------------|------|------|------|------|--|
| | | Max. load [kN] | | | | | |
| | | Bracket length [mm] | | | | | |
| | | 145 | 245 | 345 | 445 | 545 | |
| | Anchor type | | | | | | |
| | BZ-U 8-30-41/95 | 1,00 | 0,70 | 2,40 | 0,40 | 0,30 | |
| | BZ-U 10-30-50/110 | 1,50 | 0,90 | 0,55 | 0,45 | 0,35 | |

| | | Ceiling fastening | | | | |
|--|-------------------|--------------------|------|------|------|------|
| | | Max. load F [kN] | | | | |
| | | Bracket width [mm] | | | | |
| | | 145 | 245 | 345 | 445 | 545 |
| | Anchor type | | | | | |
| | BZ-U 8-30-41/95 | 1,30 | 1,30 | 2,40 | 0,35 | 0,25 |
| | BZ-U 10-30-50/110 | 1,30 | 1,30 | 2,40 | 0,35 | 0,25 |

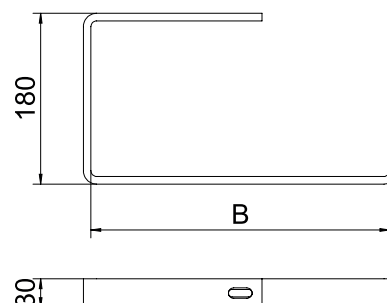
Max. total load F = cable weight + cable tray + ceiling bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25.

Ceiling bracket

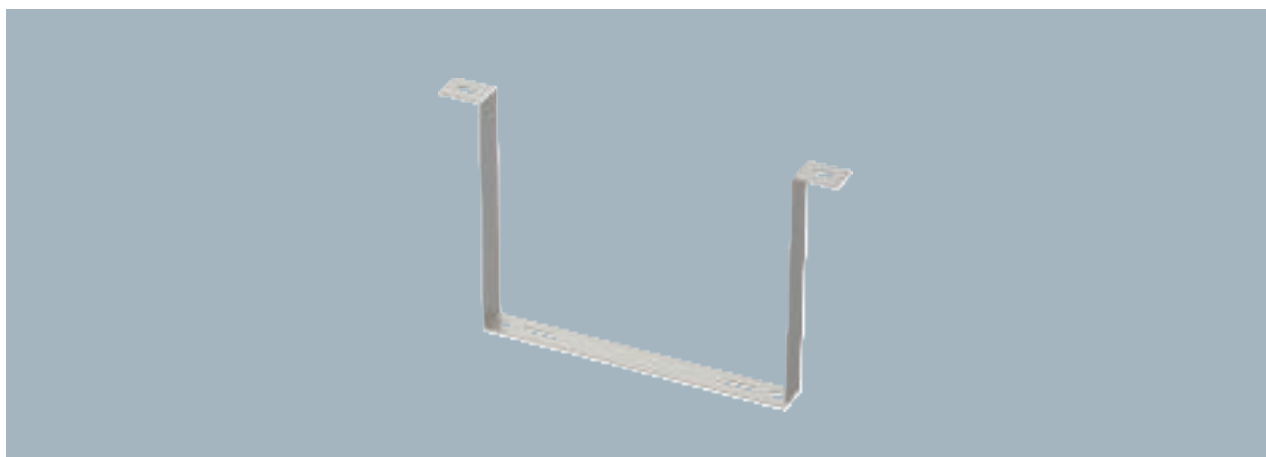


| Type | for width mm | Dim. B mm | Dim. Hole Ø mm | F in kN ceiling | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|--------------|-----------|----------------|-----------------|------------|-------------------|----------|
| AHB 100 FT | 100 | 115 | 11 | 0.6 | 1 | 54.000 | 6363903 |
| AHB 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 support systems.

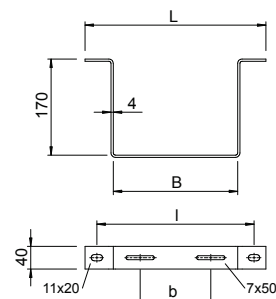


Suspension bracket for tunnels



| Type | Dim. B mm | Dim. L mm | Dim. b mm | Dim. l mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|-----------|-----------|-----------|-----------|------------|-------------------|----------|
| AHB-T1712 VA4547 | 120 | 220 | 25 | 180 | 16 | 49.200 | 6363997 |
| AHB-T1722 VA4547 | 220 | 320 | 125 | 280 | 14 | 57.700 | 6364007 |
| AHB-T1732 VA4547 | 320 | 420 | 225 | 380 | 11 | 67.200 | 6364017 |

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



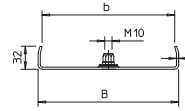
St FS

Centre suspension for cable tray, 35

| 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 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.



St FS FT

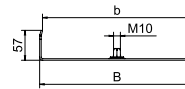
Centre suspension for cable tray, 60

| 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.

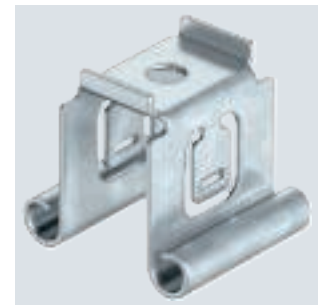
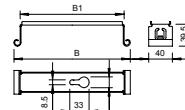


St FS

Centre suspension for cable trays with rolled side rail

| Type | for width mm | Dim. B mm | Dimension 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.

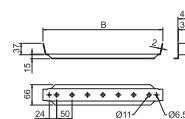


St FS

Central hanger for cable tray, KKLH 60

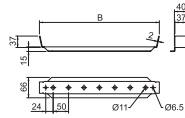
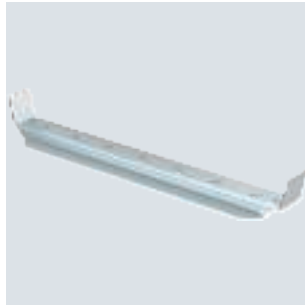
| Type | Dim. B mm | Additional information | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|-----------|------------------------|------------|-------------------|----------|
| KKLH 60 200 FS | 200 | EE | 1 | 20.000 | 6358840 |
| KKLH 60 300 FS | 300 | EE | 1 | 38.500 | 6358844 |
| KKLH 60 400 FS | 400 | EE | 1 | 51.500 | 6358848 |
| KKLH 60 600 FS | 600 | EE | 1 | 71.000 | 6358851 |
| KKLH 60 500 FS | 500 | EE | 1 | 63.000 | 6358852 |

Centre suspension, universal, for fastening to threaded rods and supports.



Central hanger for cable tray, KKLH 60

St FS

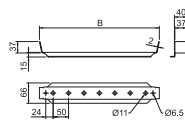


| Type | Dim. B mm | Additional information | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|-----------|------------------------|------------|-------------------|----------|
| KKLH 60 200 FS | 200 | LV | 1 | — | 6358838 |
| KKLH 60 300 FS | 300 | LV | 1 | — | 6358842 |
| KKLH 60 400 FS | 400 | LV | 1 | — | 6358846 |
| KKLH 60 500 FS | 500 | LV | 1 | — | 6358849 |
| KKLH 60 600 FS | 600 | LV | 1 | — | 6358829 |

Centre suspension, universal, for fastening to threaded rods and supports.

Central hanger for cable tray, KKLH 60

St FS

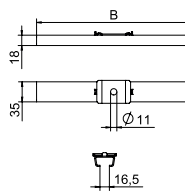
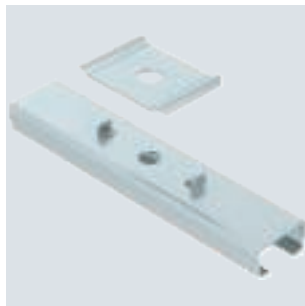


| Type | Dim. B mm | Additional information | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|-----------|------------------------|------------|-------------------|----------|
| KKLH 60 200 FS | 200 | LT | 1 | — | 6358839 |
| KKLH 60 300 FS | 300 | LT | 1 | — | 6358843 |
| KKLH 60 400 FS | 400 | LT | 1 | — | 6358847 |
| KKLH 60 500 FS | 500 | LT | 1 | — | 6358850 |
| KKLH 60 600 FS | 600 | LT | 1 | — | 6358831 |

Centre suspension, universal, for fastening to threaded rods and supports.

Centre suspension mesh cable tray

St FS

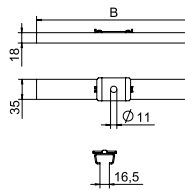


| Type | Dim. B mm | Additional information | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|-----------|------------------------|------------|-------------------|----------|
| GMS 170 FS | 170 | | 25 | 20.000 | 6015400 |
| GMS 270 FS | 270 | | 25 | 32.000 | 6015402 |
| GMS 370 FS | 370 | | 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 | Additional information | 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.

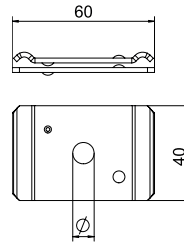
St FS FT

Centre suspension mesh cable tray

| Type | Hole Ø mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|-----------|------------|-------------------|----------|
| GMA M6 FS | 7 | 25 | 8.000 | 6015220 |
| GMA M8 FS | 9 | 25 | 8.300 | 6015239 |
| GMA M10 FS | 11 | 25 | 8.300 | 6015247 |
| GMA M6 FT | 7 | 25 | 8.400 | 6015224 |
| GMA M8 FT | 9 | 25 | 8.300 | 6015243 |
| GMA M10 FT | 11 | 25 | 8.400 | 6015255 |

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.



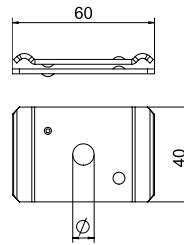
VA

Centre suspension mesh cable tray

| Type | Hole Ø mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|-----------|------------|-------------------|----------|
| GMA M6 A4 | 7 | 25 | 8.400 | 6015228 |
| GMA M8 A4 | 9 | 25 | 8.300 | 6015245 |
| GMA M10 A4 | 11 | 25 | 8.300 | 6015261 |

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.

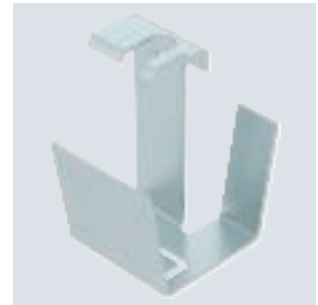
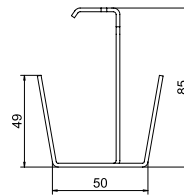


St FS FT

Centre suspension for luminaire support tray

| 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.

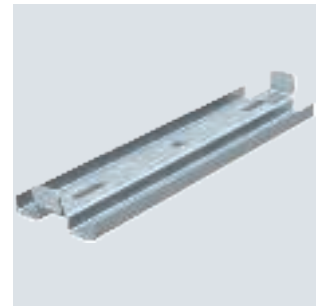
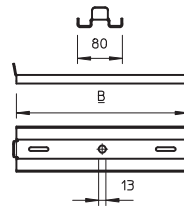


St FT

Centre suspension, cable ladder

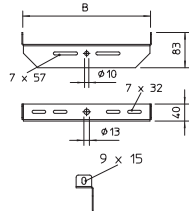
| Type | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|----------|------------|-------------------|----------|
| MAHL 200 FT | 200 | 1 | 41.900 | 6358659 |
| MAHL 300 FT | 300 | 1 | 61.800 | 6358667 |
| MAHL 400 FT | 400 | 1 | 81.800 | 6358675 |
| MAHL 500 FT | 500 | 1 | 101.700 | 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, universal

St FS FT



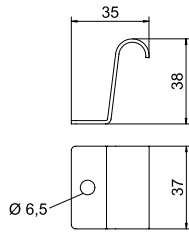
| Type | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|----------|------------|-------------------|----------|
| MAHU 200 FS | 200 | 1 | 27.500 | 6358853 |
| MAHU 300 FS | 300 | 1 | 39.300 | 6358856 |
| MAHU 400 FS | 400 | 1 | 68.800 | 6358860 |
| MAHU 500 FS | 500 | 1 | 85.800 | 6358864 |
| MAHU 600 FS | 600 | 1 | 103.300 | 6358868 |
| 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.

Hold-down clamp for Central hanger 60

St FS



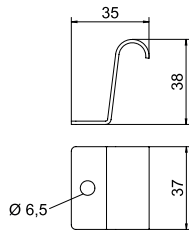
| Type | Additional information | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------------------|------------|-------------------|----------|
| KKF 60 FS | EE | 1 | 33.000 | 6358836 |

Fastening on the centre suspension KKLH 60.

Hold-down clamp for fastening cable ladders.

Hold-down clamp for Central hanger 60

St FS



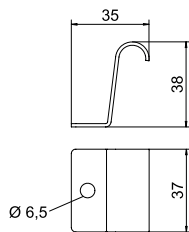
| Type | Additional information | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------------------|------------|-------------------|----------|
| KKF 60 FS | LV | 1 | — | 6358834 |

Fastening on the KKLH 60 centre suspension.

Hold-down clamp for fastening cable ladders.

Hold-down clamp for Central hanger 60

St FS



| Type | Additional information | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------------------|------------|-------------------|----------|
| KKF 60 FS | LT | 1 | — | 6358835 |

Fastening on the KKLH 60 centre suspension.

Hold-down clamp for fastening cable ladders.

St G

| Type | Thread | Dim. d mm | Dim. L mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|--------|-----------|-----------|------------|-------------------|----------|
| TR M6 1M G | M6 | 6 | 1000 | 10 | 18.300 | 3141047 |
| TR M8 1M G | M8 | 8 | 1000 | 10 | 30.000 | 3141128 |
| TR M10 1M G | M10 | 10 | 1000 | 10 | 49.000 | 3141209 |
| TR M12 1M G | M12 | 12 | 1000 | 10 | 62.000 | 3141306 |
| TR M6 2M G | M6 | 6 | 2000 | 10 | 36.600 | 3141048 |
| TR M8 2M G | M8 | 8 | 2000 | 10 | 60.000 | 3141136 |
| TR M10 2M G | M10 | 10 | 2000 | 10 | 98.000 | 3141140 |
| TR M12 2M G | M12 | 12 | 2000 | 10 | 140.000 | 3141144 |
| TR M10 3M G | M10 | 10 | 3000 | 20 | 147.000 | 3141233 |

Threaded rod to DIN 976.



Threaded rod

VA VA 2B

| Type | Thread | Dim. d mm | Dim. L mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|--------|-----------|-----------|------------|-------------------|----------|
| TR M6 1M A2 | M6 | 6 | 1000 | 10 | 18.300 | 3141327 |
| TR M8 1M A2 | M8 | 8 | 1000 | 10 | 30.000 | 3141310 |
| TR M10 1M A2 | M10 | 10 | 1000 | 10 | 49.000 | 3141312 |
| TR M12 1M A2 | M12 | 12 | 1000 | 10 | 70.000 | 3141314 |
| TR M6 2M A2 | M6 | 6 | 2000 | 10 | 36.600 | 3141328 |
| TR M8 2M A2 | M8 | 8 | 2000 | 10 | 60.000 | 3141330 |
| TR M10 2M A2 | M10 | 10 | 2000 | 10 | 98.000 | 3141339 |
| TR M12 2M A2 | M12 | 12 | 2000 | 10 | 140.000 | 3141316 |
| TR M6 1M A4 | M6 | 6 | 1000 | 1 | 18.300 | 3141482 |
| TR M8 1M A4 | M8 | 8 | 1000 | 1 | 30.000 | 3141492 |
| TR M10 1M A4 | M10 | 10 | 1000 | 1 | 49.000 | 3141502 |
| TR M6 2M A4 | M6 | 6 | 2000 | 1 | 36.600 | 3141484 |
| TR M8 2M A4 | M8 | 8 | 2000 | 1 | 60.000 | 3141494 |

Threaded rod to DIN 976.



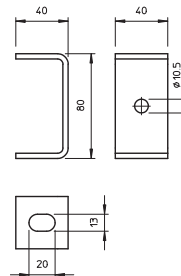
Threaded rod

Clamp

St FT

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-------|------------|-------------------|----------|
| DB FT | 20 | 16.000 | 6356109 |

Ceiling bracket for threaded rod suspension.

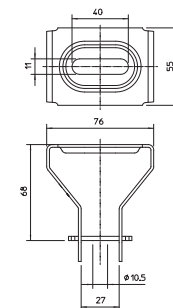


Ceiling bracket

St FS

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|--------|------------|-------------------|----------|
| DBV FS | 20 | 18.200 | 6356055 |

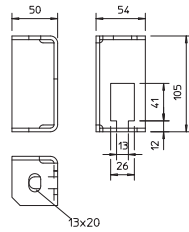
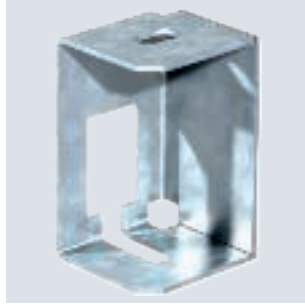
The locked threaded rod seat offers the option of infinite angle adjustment.
Ceiling bracket for suspension with threaded rods. The variable adjustment permits universal use.



Ceiling clamp, variable

Fire protection clamp

St FT

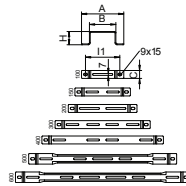


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|------------|-------------------|----------------|
| BSB FT | 20 | 42.400 | 6418198 |

Fire protection clamp for ceiling fastening of the threaded rod lock for routing types with cable ladders and cable trays for the maintenance of electrical function to DIN 4102 Part 12.

Stand-off bracket

St FS FT

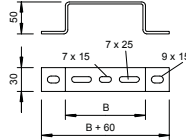


| Type | Dim. A mm | Dim. B mm | Dim. H mm | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------------|-----------|-----------|-----------|------------|-------------------|----------------|
| DBL 50 100 FS | 160 | 100 | 50 | 20 | 15.500 | 6015506 |
| DBL 50 150 FS | 210 | 150 | 50 | 20 | 18.800 | 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

VA 2B



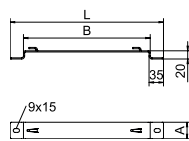
| Type | Dim. A mm | Dim. B mm | Dim. H mm | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------------|-----------|-----------|-----------|------------|-------------------|----------------|
| DBL 50 100 A4 | 160 | 100 | 50 | 10 | 15.500 | 6015630 |
| DBL 50 200 A4 | 260 | 200 | 50 | 10 | 22.800 | 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. A mm | Dim. B mm | Dim. L mm | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|--------------|-----------------|-----------------|-----------------|---------------|----------------------|----------|
| 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 20 150 FT | 20 | 30 | 156 | 220 | 20 | 18.100 | 6015660 |
| 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 |



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

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

GRM mesh cable tray types with side heights of 35, 55 and 105 mm can be mounted onto the spacer clamp.

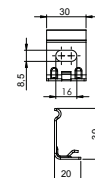
Bracket

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 mounting for wall fastening of mesh cable trays, type GRM 35 50

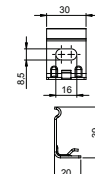


VA 2B

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 mounting for fastening of mesh cable trays GRM 35 50

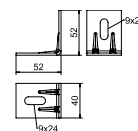


St FS FT

Ceiling bracket K6

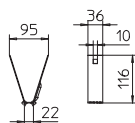
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|---------------|----------------------|----------|
| K 6 101 FS | 40 | 7.000 | 6343090 |
| K 6 101 FT | 40 | 7.000 | 6343104 |

Ceiling bracket for universal fixing to ceiling and wall, or on suspension profile, type AP 45.



Ceiling bracket, trapezoidal

St FS

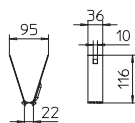


| Type | Material thickness mm | Break load F in kN | Pack | Weight | Item no. |
|------------|-----------------------|--------------------|-------|------------|----------|
| | | | Piece | kg/100 pc. | |
| TPB 100 FS | 1.5 | 0.8 | 20 | 9.900 | 6357506 |

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

VA 2B

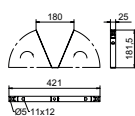


| Type | Material thickness mm | Break load F in kN | Pack | Weight | Item no. |
|------------|-----------------------|--------------------|-------|------------|----------|
| | | | Piece | kg/100 pc. | |
| TPB 100 A2 | 1.5 | 0.8 | 20 | 9.900 | 6357516 |

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

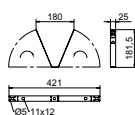
St FS



| Type | Material thickness mm | Break load F in kN | Pack | Weight | Item no. |
|------------|-----------------------|--------------------|-------|------------|----------|
| | | | Piece | kg/100 pc. | |
| TPB 180 FS | 1.5 | 0.8 | 20 | 11.400 | 6357522 |

Trapezoidal fastening

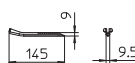
VA 2B



| Type | Material thickness mm | Break load F in kN | Pack | Weight | Item no. |
|------------|-----------------------|--------------------|-------|------------|----------|
| | | | Piece | kg/100 pc. | |
| TPB 180 A2 | 1.5 | 0.8 | 20 | 11.400 | 6357524 |

Splint for trapezoidal ceiling bracket

St FS



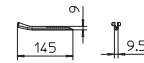
| Type | Material thickness mm | Break load F in kN | Pack | Weight | Item no. |
|----------|-----------------------|--------------------|-------|------------|----------|
| | | | Piece | kg/100 pc. | |
| TPB R FS | 1.5 | 0.8 | 20 | 3.100 | 6357536 |

Important: Observe the statics of the trapezoidal metal ceiling.
 Splint for fastening and securing the ceiling bracket to trapezoidal ceilings.

VA 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 |



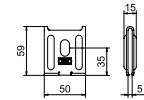
Important: Observe the statics of the trapezoidal metal ceiling.
Splint for fastening and securing the ceiling bracket to trapezoidal ceilings.

Holders and fastenings

St FS

Wall clamp / central hanger

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|-------------------|----------|
| K 12 1818 FS | 25 | 8.772 | 6437109 |

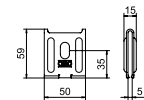


As wall fastening up to max. mesh cable tray width 200 mm.
As centre suspension up to max. mesh cable tray width 200 mm.
As a pendulum suspension from a width of 300 mm.
Wall clamp and central hanger for mesh cable trays.

VA 2B

Wall clamp / central hanger

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|------------|-------------------|----------|
| K12 1818 A2 | 25 | 8.772 | 6016421 |

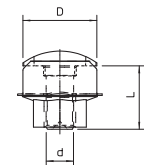


As wall fastening up to max. mesh cable tray width 200 mm.
As centre suspension up to max. mesh cable tray width 200 mm.
As a pendulum suspension from a width of 300 mm.
Wall clamp and central hanger for mesh cable trays.

St F

Quick connector

| Type | Dimen- sion mm | Dim. L mm | Dim. d mm | Dim. D mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------|----------------|-----------|-----------|-----------|------------|-------------------|----------|
| FCM F | M6 x 12 | 12 | 6 | 13.5 | 50 | 0.720 | 6424548 |

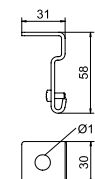


The quick fastening can then be mounted in all brackets with 7 x ... perforation at a later date.
Quick connector for efficient fastening of cable tray on brackets.

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 | 6.000 | 6015338 |



Side holder for suspension of mesh cable trays.

Side holder

VA 2B

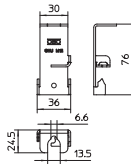


| Type | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|---------------|------------|-------------------|----------|
| SH M10 A4 | | 20 | 5.500 | 6015340 |

Side holder for suspension of mesh cable trays.

Side holder, universal

St FS DD

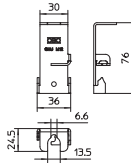


| Type | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|---------------|------------|-------------------|----------|
| SHU M12 FS | 0.5 | 50 | 5.100 | 6015322 |
| SHU M12 DD | 0.5 | 50 | 5.100 | 6015324 |

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

Side holder, universal

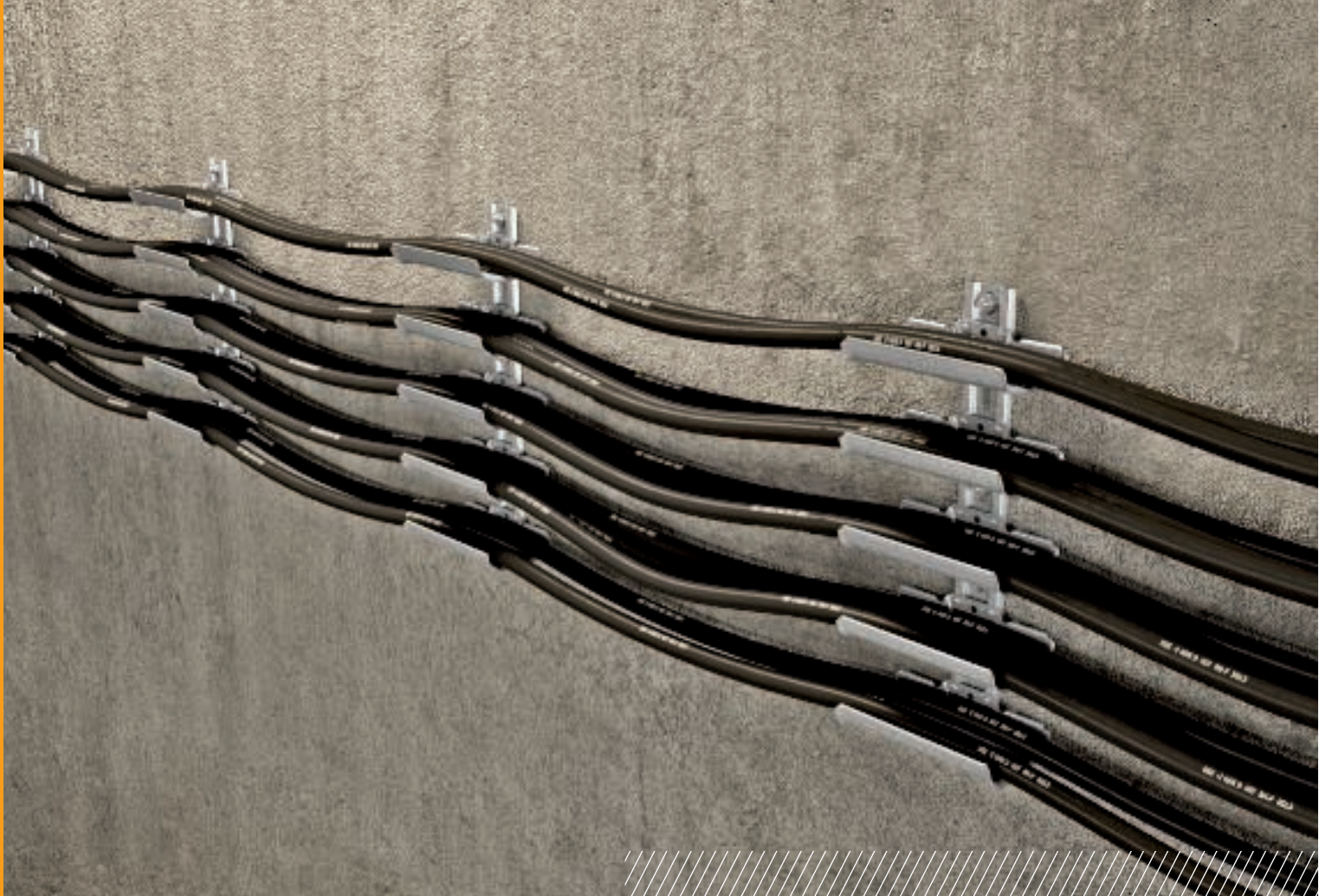
VA VA 2B



| Type | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|---------------|------------|-------------------|----------|
| SHU M12 A2 | 0.5 | 50 | 5.100 | 6015326 |
| SHU M12 A4 | 0.5 | 50 | 5.100 | 6015328 |

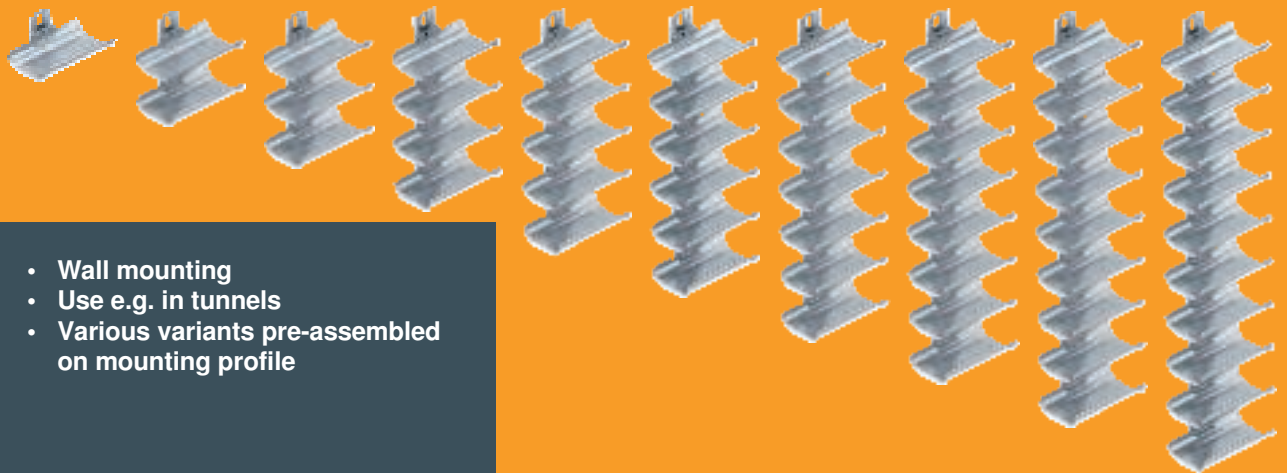
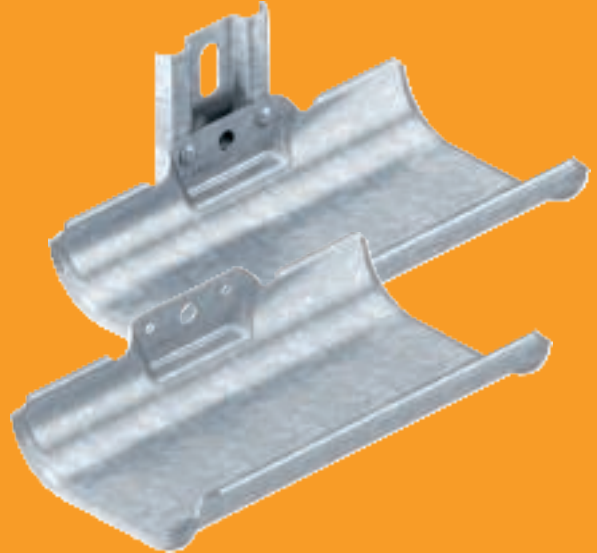
Side holder to fasten cable trays, mesh cable trays and cable ladders to ceilings using a threaded rod.





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

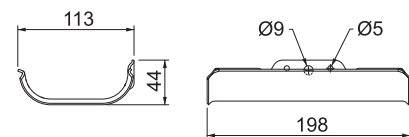
Cable carrier trough, single, for individual routing

| Type | Side height mm | F in kN per trough kN | 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



| Type | Dim. | | F in kN per trough kN | 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 |

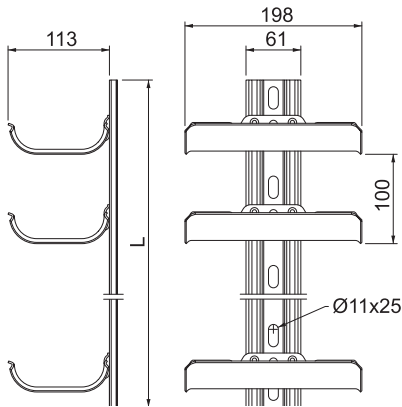
Load

| 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 | | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------------|------|-------------------|---------------|--|------------|-------------------|----------------|
| | L mm | Number of troughs | per trough kN | | | | |
| KTW 100 2 FT | 200 | 2 | 0.5 | | 1 | 111.000 | 6006902 |

Load

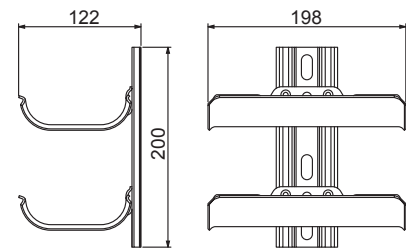
| Type | Levels | Total load | Quantity of anchors |
|---------------|--------|------------|---------------------|
| KTW 100 1 FT | 1 | 0.950 kN | 1 |
| KTW 100 2 FT | 2 | 1.0 kN | 1 |
| KTW 100 3 FT | 3 | 0.15 kN | 1 |
| KTW 100 4 FT | 4 | 0.950 kN | 2 |
| KTW 100 5 FT | 5 | 2.5 kN | 2 |
| KTW 100 6 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).



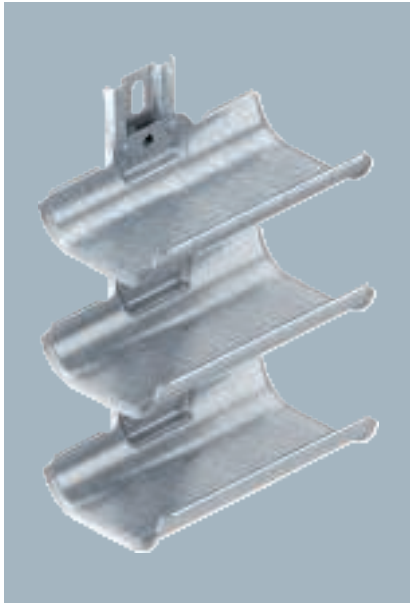
In accordance with DIN VDE 0298-300, a maximum support spacing of 0.8 m should not be exceeded.

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 kN | 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 |

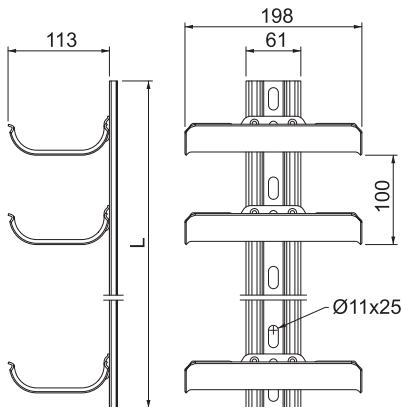
Load

| 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

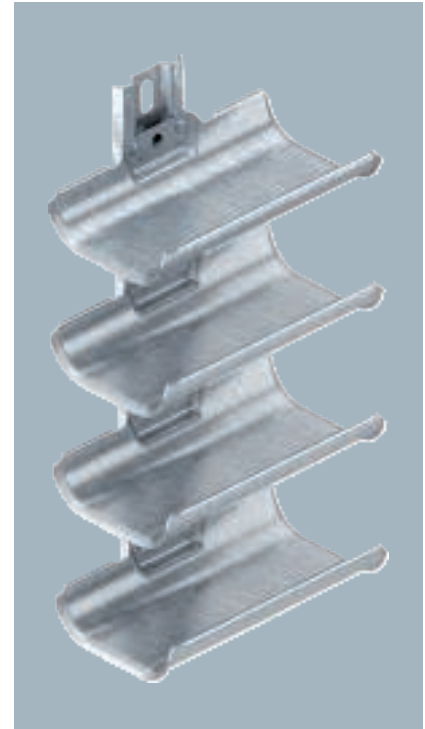
Cable carrier troughs, 4-fold, with mounting rail

| Type | Dim. L mm | Number of troughs | F in kN per trough kN | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|-----------------|----------------------|-----------------------------|---------------|----------------------|----------|
| KTW 100 4 FT | 400 | 4 | 0.5 | 1 | 225.000 | 6006904 |

Load

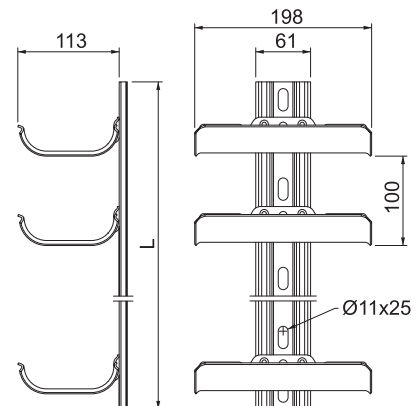
| Type | Levels | Total load | Quantity of anchors |
|---------------|--------|------------|---------------------|
| KTW 100 1 FT | 1 | 0.950 kN | 1 |
| KTW 100 2 FT | 2 | 1.0 kN | 1 |
| KTW 100 3 FT | 3 | 0.15 kN | 1 |
| KTW 100 4 FT | 4 | 0.950 kN | 2 |
| KTW 100 5 FT | 5 | 2.5 kN | 2 |
| KTW 100 6 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).



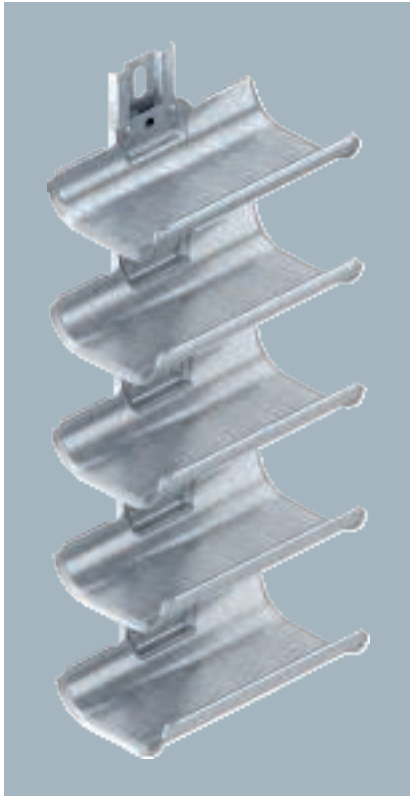
In accordance with DIN VDE 0298-300, a maximum support spacing of 0.8 m should not be exceeded.

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 kN | 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 |

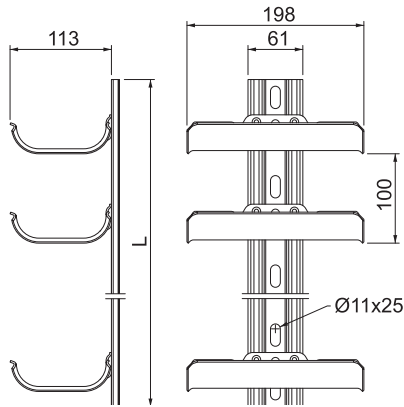
Load

| 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

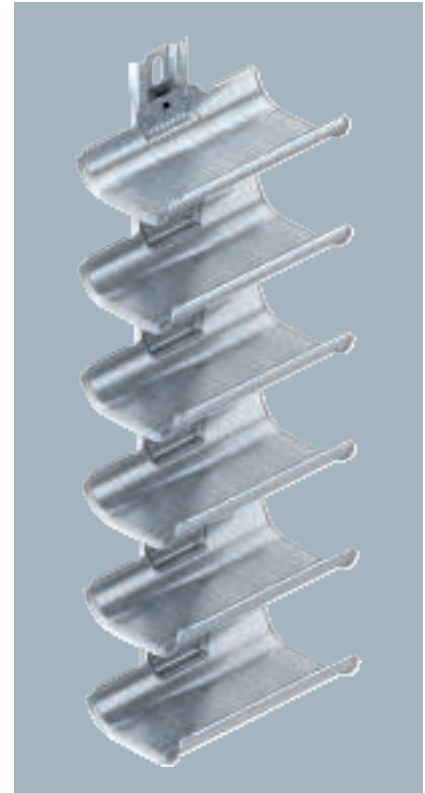
Cable carrier troughs, 6-fold, with mounting rail

| Type | Dim. | | F in kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------------|------|-------------------|---------------|--|------------|-------------------|----------------|
| | L mm | Number of troughs | per trough kN | | | | |
| KTW 100 6 FT | 600 | 6 | 0.5 | | 1 | 339.000 | 6006906 |

Load

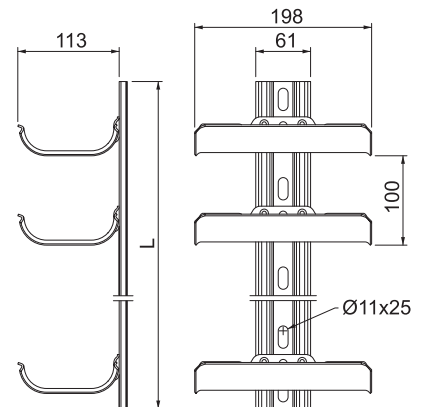
| Type | Levels | Total load | Quantity of anchors |
|---------------|--------|------------|---------------------|
| KTW 100 1 FT | 1 | 0.950 kN | 1 |
| KTW 100 2 FT | 2 | 1.0 kN | 1 |
| KTW 100 3 FT | 3 | 0.15 kN | 1 |
| KTW 100 4 FT | 4 | 0.950 kN | 2 |
| KTW 100 5 FT | 5 | 2.5 kN | 2 |
| KTW 100 6 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



| Type | Dim. | | F in kN per trough kN | 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 |

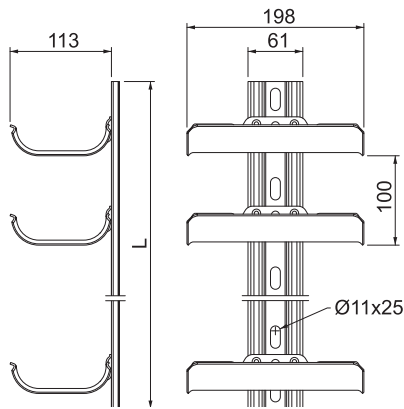
Load

| 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

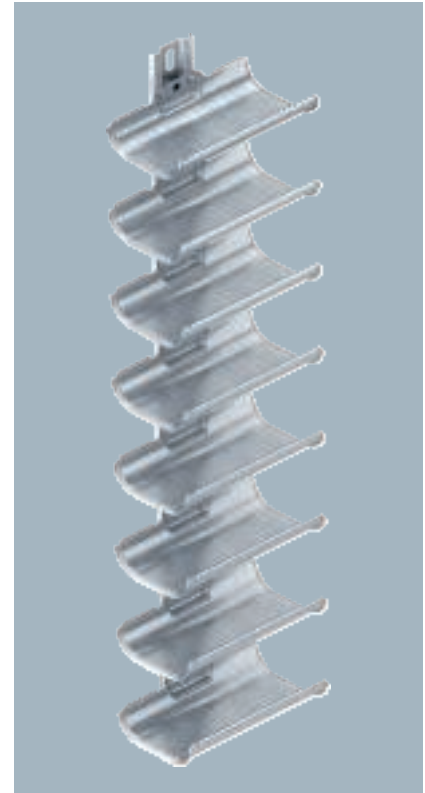
Cable carrier troughs, 8-fold, with mounting rail

| Type | Dim. | | F in kN | | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------------|------|-------------------|---------------|--|------------|-------------------|----------------|
| | L mm | Number of troughs | per trough kN | | | | |
| KTW 100 8 FT | 800 | 8 | 0.5 | | 1 | 452.000 | 6006908 |

Load

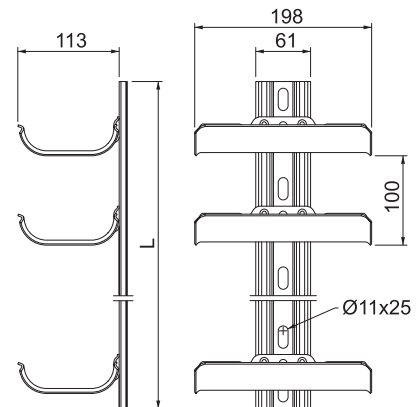
| Type | Levels | Total load | Quantity of anchors |
|---------------|--------|------------|---------------------|
| KTW 100 1 FT | 1 | 0.950 kN | 1 |
| KTW 100 2 FT | 2 | 1.0 kN | 1 |
| KTW 100 3 FT | 3 | 0.15 kN | 1 |
| KTW 100 4 FT | 4 | 0.950 kN | 2 |
| KTW 100 5 FT | 5 | 2.5 kN | 2 |
| KTW 100 6 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).

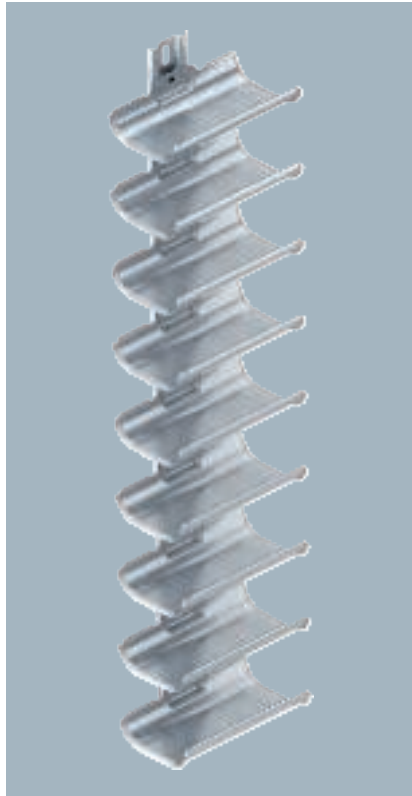


In accordance with DIN VDE 0298-300, a maximum support spacing of 0.8 m should not be exceeded.

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



| Type | Dim. | | F in kN per trough kN | 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 |

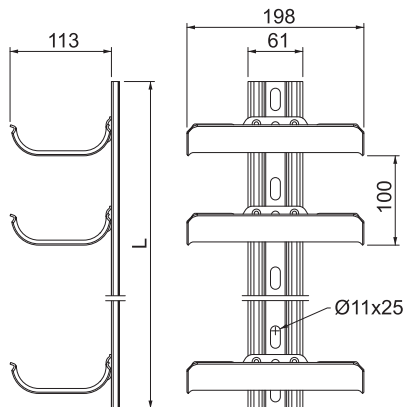
Load

| 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

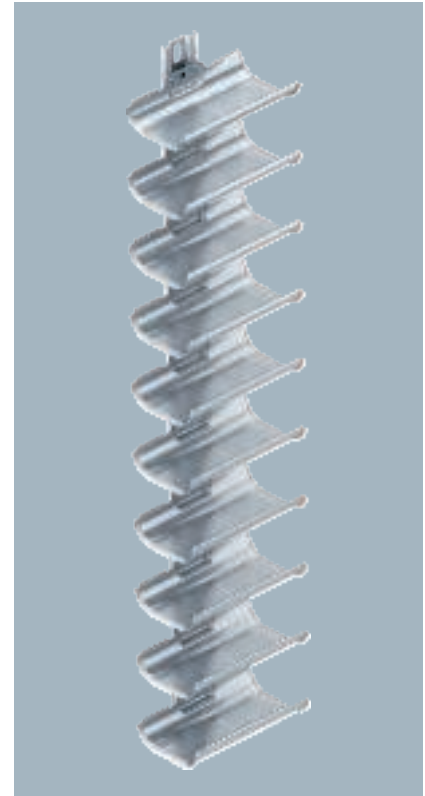
Cable support trough, 10x, with fastening rail

| 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

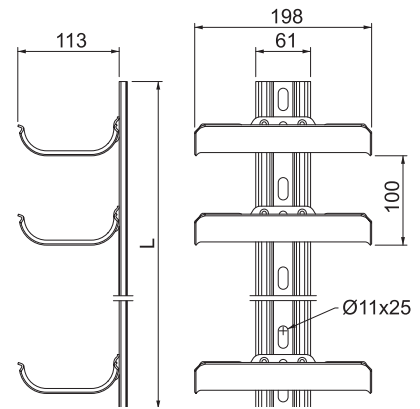
| Type | Levels | Total load | Quantity of anchors |
|---------------|--------|------------|---------------------|
| KTW 100 1 FT | 1 | 0.950 kN | 1 |
| KTW 100 2 FT | 2 | 1.0 kN | 1 |
| KTW 100 3 FT | 3 | 0.15 kN | 1 |
| KTW 100 4 FT | 4 | 0.950 kN | 2 |
| KTW 100 5 FT | 5 | 2.5 kN | 2 |
| KTW 100 6 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.



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.

Support structures

Highly versatile

Different perforation patterns

Strip galvanised and hot-dip galvanised

Stainless steel grades V2A and V4A

Light duty

Medium duty

Heavy duty



CL2008 profile rail, slot 11 mm, perforated

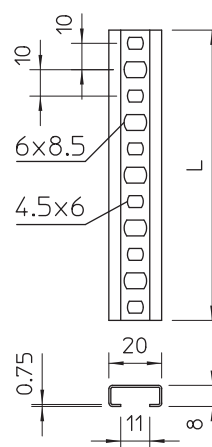
| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---------------|--------------|-----------------------------|-----------|--------------------|----------|
| CL2008P2000FS | 2000 | 0.75 | 2 | 20.000 | 1106627 |



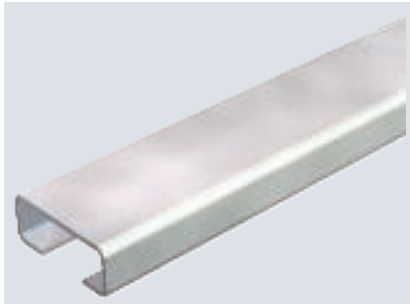
Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

| Type | Dimension W x H mm | Dim. L mm |
|---------------|--------------------------|-----------------|
| CL2008P2000FS | 20 x 8 | 2000 |

Dimensions



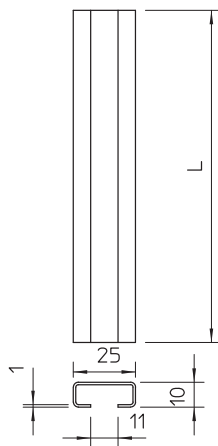
CL2510UP2000FS profile rail, slot 11 mm, unperforated



| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|----------------|--------------|-----------------------------|-----------|--------------------|----------|
| CL2510UP2000FS | 2000 | 1 | 2 | 36.000 | 1107127 |

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 |
|----------------|--------------------------|-----------------|
| CL2510UP2000FS | 25 x 10 | 2000 |



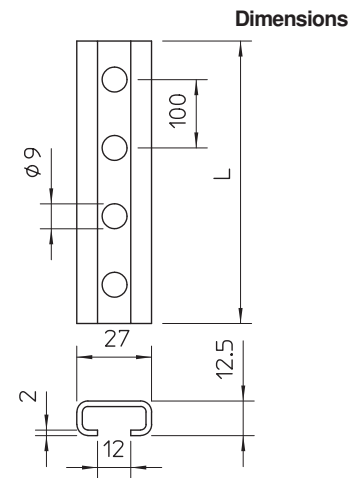
CL2712 profile rail, slot 12 mm, perforated

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---------------|--------------|-----------------------------|-----------|--------------------|----------|
| CL2712P2000FT | 2000 | 2 | 2 | 89.500 | 1109529 |



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 |
|---------------|--------------------------|-----------------|
| CL2712P2000FT | 27 x 12,5 | 2000 |



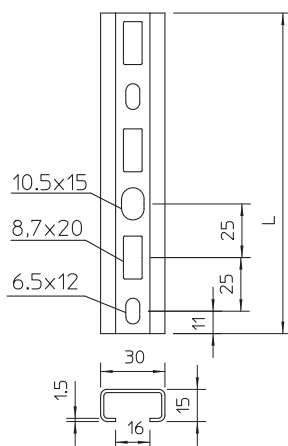
CM3015 profile rail, slot 16 mm, perforated



Profile rail, perforated, slot width 16 mm.

| 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 |
| CM3015P2000FT | 2000 | 1.5 | 2 | 73.000 | 1109871 |
| CM3015P2000FS | 2000 | 1.5 | 2 | 69.000 | 1110002 |

Dimensions



| Type | Dimension W x H mm | Dim. L mm |
|---------------|--------------------------|-----------------|
| CM3015P0200FT | 30 x 15 | 200 |
| CM3015P0300FT | 30 x 15 | 300 |
| CM3015P0400FT | 30 x 15 | 400 |
| CM3015P0500FT | 30 x 15 | 500 |
| CM3015P0600FT | 30 x 15 | 600 |
| CM3015P0700FT | 30 x 15 | 700 |
| CM3015P0800FT | 30 x 15 | 800 |
| CM3015P2000FT | 30 x 15 | 2000 |

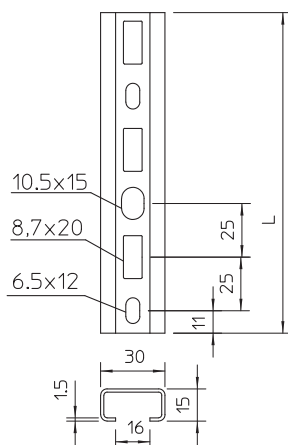
CM3015 profile rail, slot 16 mm, perforated



Profile rail, perforated, slot width 16 mm.

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---------------|--------------|-----------------------------|-----------|--------------------|----------|
| CM3015P1000FT | 1000 | 1.5 | 10 | 73.000 | 1109863 |
| CM3015P2000FT | 2000 | 1.5 | 2 | 73.000 | 1109871 |

Dimensions

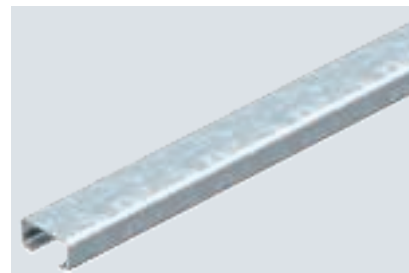


| Type | Dimension W x H mm | Dim. L mm |
|---------------|--------------------------|-----------------|
| CM3015P1000FT | 30 x 15 | 1000 |
| CM3015P2000FT | 30 x 15 | 2000 |



CM3015 profile rail, slot 16 mm, unperforated

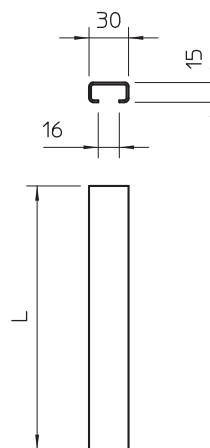
| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|------|--------------|-----------------------------|-----------|--------------------|----------|
| | | | | | |



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 | | Dim. L |
|----------------|--------------------|----|-----------|
| | mm | | |
| CM3015UP2000FS | 30 | 15 | 2000 |

Dimensions



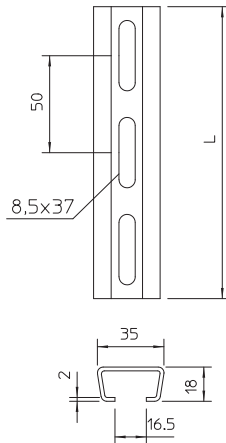
Anchor rail AML3518, slot width 16.5 mm, perforated



| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|----------------|--------------|-----------------------------|-----------|--------------------|----------|
| AML3518P1000FS | 1000 | 1.5 | 1 | 82.000 | 1119646 |
| AML3518P2000FS | 2000 | 1.5 | 2 | 82.500 | 1119648 |
| AMS3518P1000FS | 1000 | 2 | 1 | 115.000 | 1112735 |
| AML3518P2000FT | 2000 | 1.5 | 2 | 89.000 | 1119656 |
| AML3518P1000FT | 1000 | 1.5 | 10 | 89.000 | 1119672 |
| 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.

Dimensions



| Type | Dimension W x H mm | Dim. L mm |
|----------------|--------------------------|-----------------|
| AML3518P1000FS | 35 x 18 | 1000 |
| AML3518P2000FS | 35 x 18 | 2000 |
| AMS3518P1000FS | 35 x 18 | 1000 |
| AML3518P2000FT | 35 x 18 | 2000 |
| AML3518P1000FT | 35 x 18 | 1000 |
| AMS3518P1000FT | 35 x 18 | 1000 |



AML3518 anchor rail, slot 16.5 mm, perforated

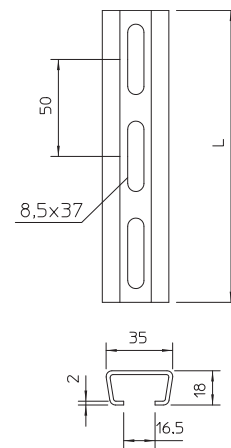
| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|----------------|--------------|-----------------------------|-----------|--------------------|----------|
| AML3518P1000A2 | 1000 | 1.5 | 1 | 82.000 | 1119700 |
| AML3518P2000A2 | 2000 | 1.5 | 2 | 82.000 | 1119702 |



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 |
|----------------|--------------------------|-----------------|
| AML3518P1000A2 | 35 x 18 | 1000 |
| AML3518P2000A2 | 35 x 18 | 2000 |

Dimensions

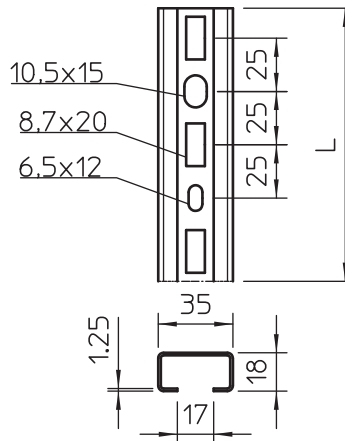


CML3518 profile rail, slot 17 mm, perforated

| 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 |



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

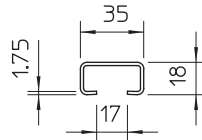
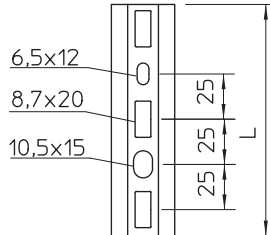


CMS3518 profile rail, slot 17 mm, perforated



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. |
|----------------|-----------|-----------------------|------------|-------------------|----------|
| CMS3518P0150FS | 150 | 1.75 | 25 | 14.670 | 1104349 |
| CMS3518P0300FS | 300 | 1.75 | 25 | 29.340 | 1104373 |
| CMS3518P0400FS | 400 | 1.75 | 10 | 39.120 | 1104391 |
| CMS3518P0500FS | 500 | 1.75 | 10 | 48.900 | 1104403 |
| CMS3518P0200FS | 200 | 1.75 | 25 | 19.560 | 1104357 |
| CMS3518P0600FS | 600 | 1.75 | 10 | 58.680 | 1104411 |
| CMS3518P0700FS | 700 | 1.75 | 10 | 68.460 | 1104422 |
| CMS3518P0800FS | 800 | 1.75 | 10 | 78.240 | 1104427 |
| CMS3518P0900FS | 900 | 1.75 | 10 | 88.020 | 1104435 |

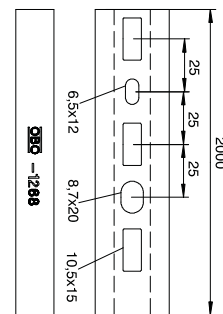
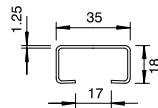


CML3518 profile rail, slot 17 mm, perforated



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. |
|----------------|-----------|-----------------------|--------|-----------------|----------|
| 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 |





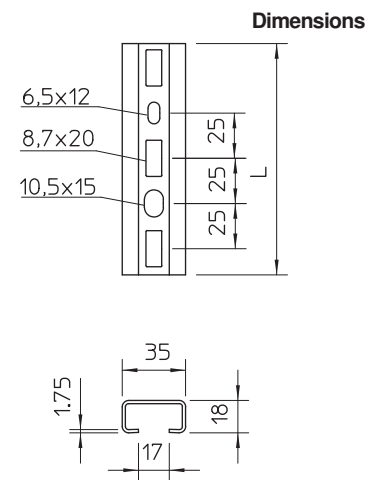
CMS3518 profile rail, slot 17 mm, perforated

| 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 |



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 |
|----------------|--------------------------|-----------------|
| CMS3518P1000FT | 35 x 18 | 1000 |
| CMS3518P2000FT | 35 x 18 | 2000 |



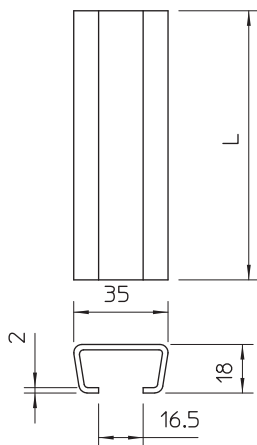
AMS3518 anchor rail, slot 16.5 mm, unperforated



| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|-----------------|--------------|-----------------------------|-----------|--------------------|----------|
| AMS3518UP2000FT | 2000 | 2 | 2 | 121.350 | 1112228 |
| AMS3518UP6000FT | 6000 | 2 | 6 | 111.167 | 1112244 |

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

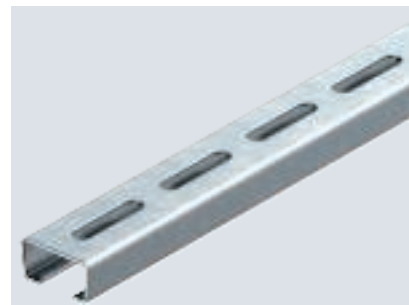


| Type | Dimension W x H mm | Dim. L mm |
|-----------------|--------------------------|-----------------|
| AMS3518UP2000FT | 35 x 18 | 2000 |
| AMS3518UP6000FT | 35 x 18 | 6000 |



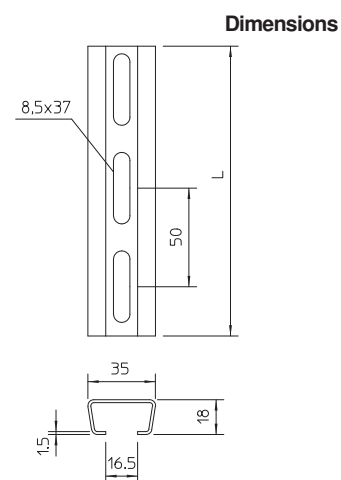
Anchor rail AML3518, slot 16.5 mm, perforated

| 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 |

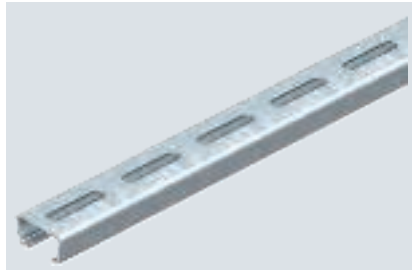


Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

| Type | Dimension W x H mm | Dim. L mm |
|----------------|--------------------------|-----------------|
| AML3518P0200FT | 35 x 18 | 200 |
| AML3518P0300FT | 35 x 18 | 300 |
| AML3518P0400FT | 35 x 18 | 400 |
| AML3518P0500FT | 35 x 18 | 500 |
| AML3518P0600FT | 35 x 18 | 600 |
| AML3518P0700FT | 35 x 18 | 700 |
| AML3518P0800FT | 35 x 18 | 800 |



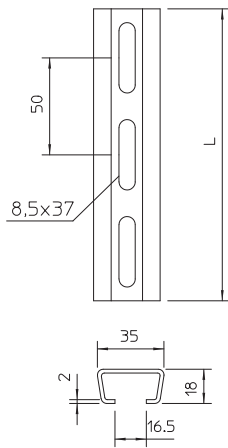
Anchor rail AMS3518, slot 16.5 mm, perforated



| 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.

Dimensions

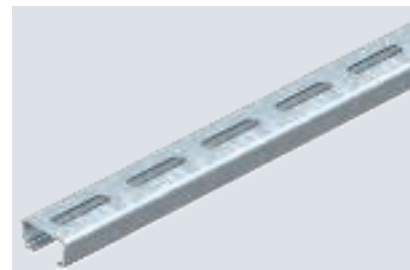


| Type | Dimension W x H mm | Dim. L mm |
|----------------|--------------------------|-----------------|
| AMS3518P2000FS | 35 x 18 | 2000 |



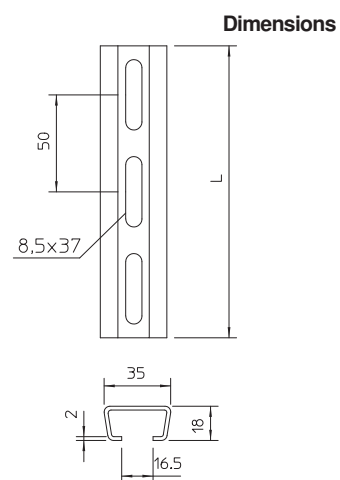
Anchor rail AMS3518, slot 16.5 mm, perforated

| 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.

| Type | Dimension W x H mm | Dim. L mm |
|----------------|--------------------------|-----------------|
| AMS3518P2000FT | 35 x 18 | 2000 |





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





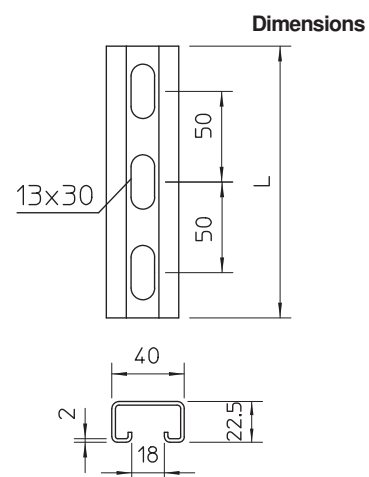
MS4022 mounting rail, heavy duty, slot 18 mm, perforated

| 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 |



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 |
|---------------|--------------------------|-----------------|
| MS4022P2000FT | 40 x 22,5 | 2000 |
| MS4022P6000FT | 40 x 22,5 | 6000 |



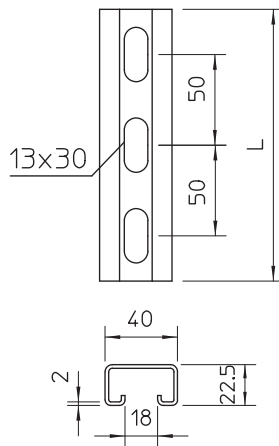
MS4022 mounting rail, heavy duty, slot 18 mm, perforated



| 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 |

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

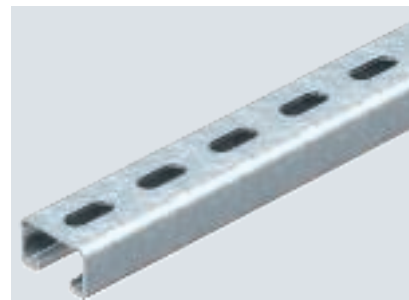


| Type | Dimension W x H mm | Dim. L mm |
|---------------|--------------------------|-----------------|
| MS4022P2000A2 | 40 x 22,5 | 2000 |
| MS4022P6000A2 | 40 x 22,5 | 6000 |



MS5030 mounting rail, slot 22 mm, perforated

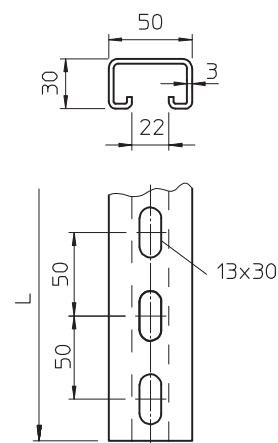
| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---------------|--------------|-----------------------------|-----------|--------------------|----------|
| MS5030P1000FT | 1000 | 3 | 1 | 282.500 | 1121448 |
| MS5030P2000FT | 2000 | 3 | 2 | 282.500 | 1121464 |
| MS5030P3000FT | 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 |



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 |
|---------------|--------------------------|-----------------|
| MS5030P1000FT | 50 x 30 | 1000 |
| MS5030P2000FT | 50 x 30 | 2000 |
| MS5030P3000FT | 50 x 30 | 3000 |
| MS5030P6000FT | 50 x 30 | 6000 |

Dimensions



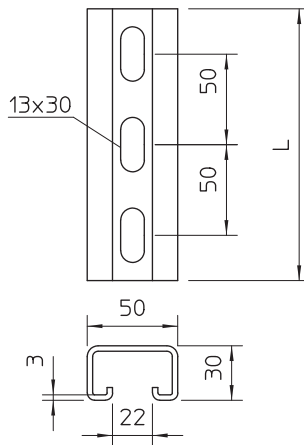
MS5030 mounting rail, slot 22 mm, perforated



| 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.

Dimensions

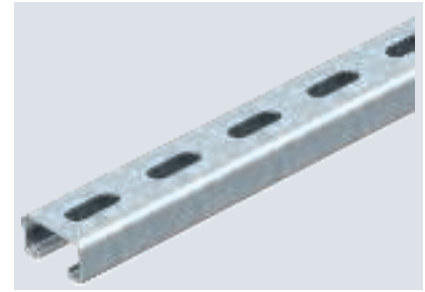


| Type | Dimension W x H mm | Dim. L mm |
|---------------|--------------------------|-----------------|
| MS5030P0200FT | 50 x 30 | 200 |
| MS5030P0300FT | 50 x 30 | 300 |
| MS5030P0400FT | 50 x 30 | 400 |
| MS5030P0500FT | 50 x 30 | 500 |
| MS5030P0600FT | 50 x 30 | 600 |
| MS5030P0700FT | 50 x 30 | 700 |
| MS5030P0800FT | 50 x 30 | 800 |
| MS5030P0900FT | 50 x 30 | 900 |
| MS5030P1500FT | 50 x 30 | 1500 |



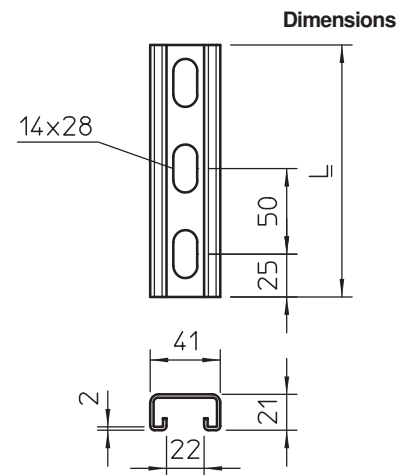
MS4121 mounting rail, slot 22 mm, perforated

| Type | Length mm | Material thickness mm | 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 |

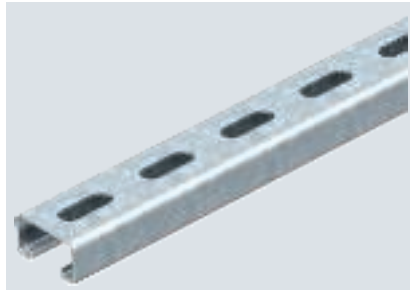


Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

| Type | Dimension W x H mm | Dim. L mm |
|---------------|--------------------------|-----------------|
| MS4121P2000FS | 41x21 | 2000 |
| MS4121P3000FS | 41x21 | 3000 |
| MS4121P6000FS | 41x21 | 6000 |



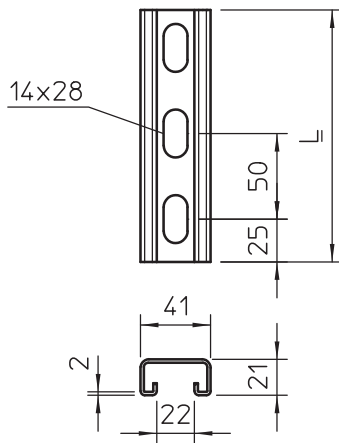
MS4121 mounting rail, slot 22 mm, perforated



| Type | Length mm | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|--------------|-----------------------------|---------------|----------------------|----------|
| 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.

Dimensions



| Type | Dimension W x H mm | Dim. L mm |
|---------------|--------------------------|-----------------|
| MS4121P0200FT | 41x21 | 200 |
| MS4121P0300FT | 41x21 | 300 |
| MS4121P0400FT | 41x21 | 400 |
| MS4121P0500FT | 41x21 | 500 |
| MS4121P0600FT | 41x21 | 600 |
| MS4121P0700FT | 41x21 | 700 |
| MS4121P0800FT | 41x21 | 800 |
| MS4121P0900FT | 41x21 | 900 |

VA VA 2B



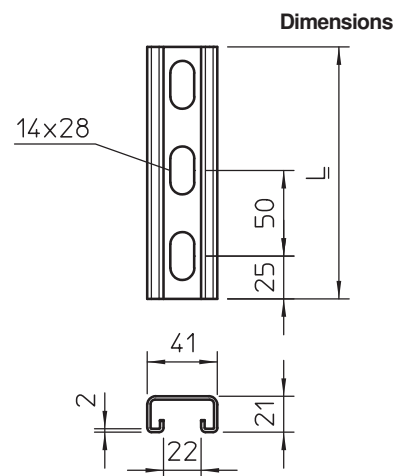
MS4121 mounting rail, slot 22 mm, perforated

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---------------|--------------|-----------------------------|-----------|--------------------|----------|
| MS4121P2000A2 | 2000 | 2 | 2 | 140.950 | 1122925 |
| MS4121P3000A2 | 3000 | 2 | 3 | 185.340 | 1122928 |
| MS4121P6000A2 | 6000 | 2 | 6 | 140.950 | 1122929 |
| MS4121P3000A4 | 3000 | 2 | 3 | 172.670 | 1122931 |

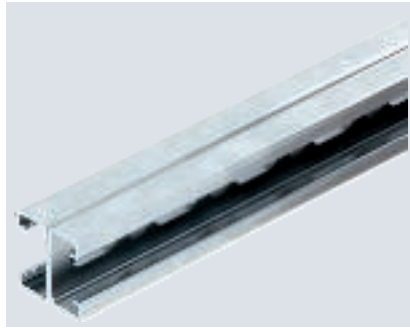


Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

| Type | Dimension W x H mm | Dim. L mm |
|---------------|--------------------------|-----------------|
| MS4121P2000A2 | 41x21 | 2000 |
| MS4121P3000A2 | 41x21 | 3000 |
| MS4121P6000A2 | 41x21 | 6000 |



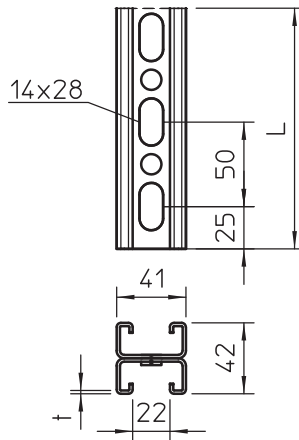
MS4142 mounting rail, slot 22 mm, double, perforated



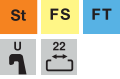
| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|---------------|--------------|-----------------------------|-----------|--------------------|----------|
| MS4142P3000FS | 3000 | 2 | 3 | 303.000 | 1122947 |
| MS4142P6000FS | 6000 | 2 | 6 | 303.000 | 1122948 |
| MS4142P3000FT | 3000 | 2 | 3 | 303.000 | 1122944 |
| MS4142P6000FT | 6000 | 2 | 6 | 303.000 | 1122945 |
| MS4142P6000A2 | 6000 | 2 | 6 | 283.800 | 1122954 |

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).

Dimensions

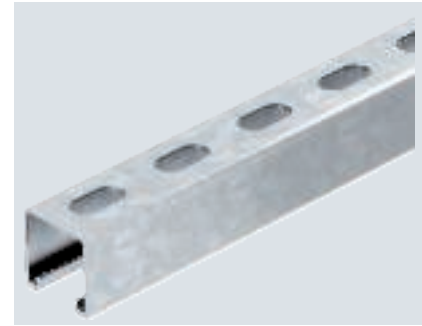


| Type | Dimension W x H mm | Dim. L mm |
|---------------|--------------------------|-----------------|
| MS4142P3000FS | 41x42 | 3000 |
| MS4142P6000FS | 41x42 | 6000 |



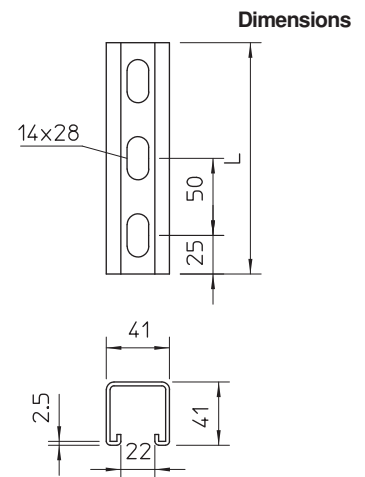
MS4141 mounting rail, slot 22 mm, perforated

| Type | Length mm | Material thickness mm | 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 |

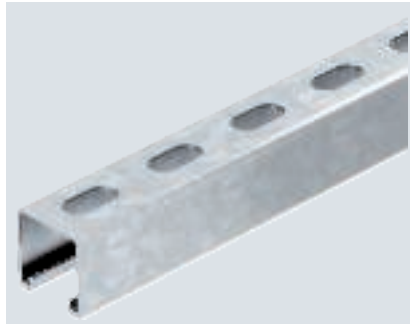


Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

| Type | Dimension W x H mm | Dim. L mm |
|---------------|--------------------------|-----------------|
| MS4141P1000FS | 41x41 | 1000 |
| MS4141P3000FS | 41x41 | 3000 |
| MS4141P6000FS | 41x41 | 6000 |



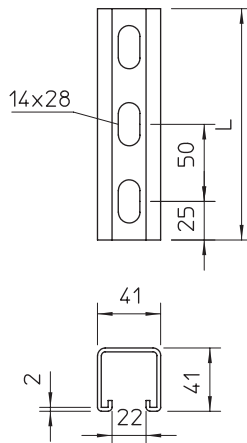
MSL4141 mounting rail, slot 22 mm, perforated



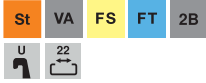
| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|----------------|--------------|-----------------------------|-----------|--------------------|----------|
| | | | | | |
| MSL4141P3000FS | 3000 | 2 | 3 | 201.100 | 1122972 |
| MSL4141P6000FS | 6000 | 2 | 6 | 201.100 | 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 |

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 |
| MSL4141P1000FS | 41x41 | 1000 |
| MSL4141P3000FS | 41x41 | 3000 |
| MSL4141P6000FS | 41x41 | 6000 |



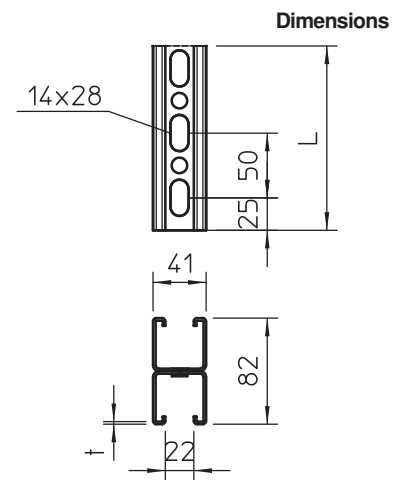
MS4182 mounting rail, slot 22 mm, double, perforated

| 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 |

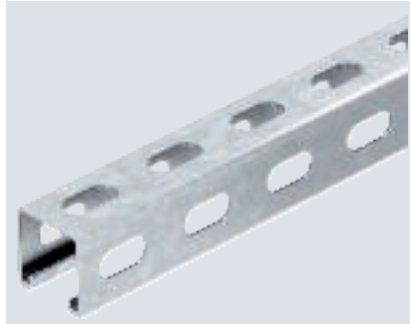


Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm. Double version, i.e. two profile rails are interconnected on the base (clinched).

| Type | Dimension W x H mm | Dim. L mm |
|---------------|--------------------------|-----------------|
| MS4182P3000FS | 41x82 | 3000 |
| MS4182P6000FS | 41x82 | 6000 |



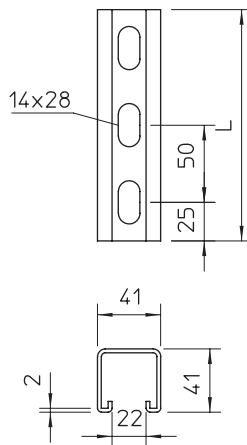
MSL4141 mounting rail, slot 22 mm, side perforation



| 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 |
| MSL4141PP3000A4 | 3000 | 2 | 3 | 179.400 | 1123023 |

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 |
|-----------------|--------------------|-----------|
| MSL4141PP1000FS | 41x41 | 1000 |
| MSL4141PP3000FS | 41x41 | 3000 |
| MSL4141PP6000FS | 41x41 | 6000 |



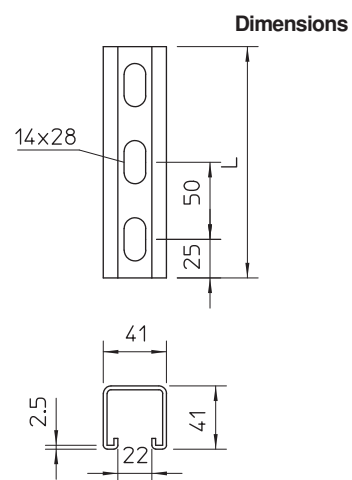
MS4141 mounting rail, slot 22 mm, side perforation

| Type | Length mm | Material thickness mm | Pack m | Weight kg/100 m | Item no. |
|----------------|--------------|-----------------------------|-----------|--------------------|----------|
| MS4141PP3000FS | 3000 | 2.5 | 3 | 218.000 | 1122914 |
| MS4141PP6000FS | 6000 | 2.5 | 6 | 218.340 | 1122916 |
| MS4141PP3000FT | 3000 | 2.5 | 3 | 233.340 | 1122483 |
| MS4141PP6000FT | 6000 | 2.5 | 6 | 225.000 | 1122487 |



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 |
|----------------|--------------------------|-----------------|
| MS4141PP3000FS | 41x41 | 3000 |
| MS4141PP6000FS | 41x41 | 6000 |



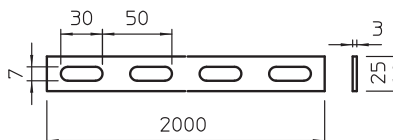
SL42 construction and suspension profile

St SG



Rail profile of 25 mm side height for welding in trapezoidal rungs.
The rail profile is available in unpainted steel on request.

| Type | Dimension mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|----------------|--------------|-----------|--------|-----------------|----------|
| SLH 42 2000 SG | 25x3 | 2000 | 2 | 50.000 | 7103603 |



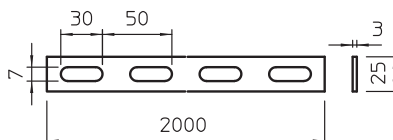
SL42 construction and suspension profile

St FT



Perforated side rail profile of shipbuilding ladders, SL 42, for the creation of suspension and support constructions.
The profile is available in bright steel on request.

| Type | Dimension mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|----------------|--------------|-----------|--------|-----------------|----------|
| SLH 42 2000 FT | 25x3 | 2000 | 2 | 51.500 | 7103611 |



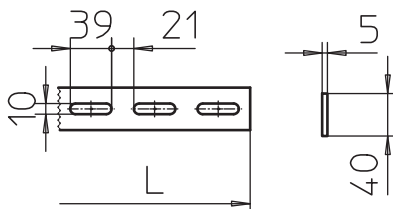
Construction and suspension profile, SL62

St SG



Rail profile of 25 mm side height for welding in trapezoidal rungs.
The rail profile is available in unpainted steel on request.

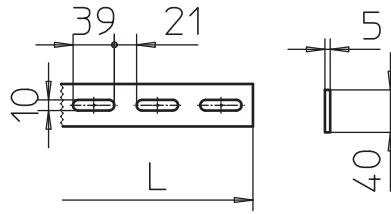
| Type | Dimension mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|----------------|--------------|-----------|--------|-----------------|----------|
| SLH 62 3000 SG | 40x5 | 3000 | 3 | 133.000 | 7103635 |



St FT

Construction and suspension profile, SL62

| Type | Dimension mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|----------------|--------------|-----------|--------|-----------------|----------|
| SLH 62 3000 FT | 40x5 | 3000 | 3 | 135.700 | 7103643 |



Perforated side rail profile of shipbuilding ladders, SL 62, for the creation of suspension and support constructions.

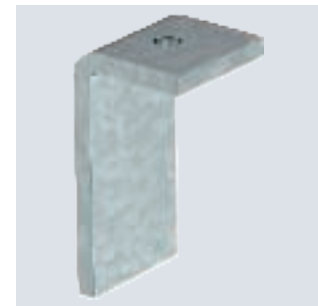
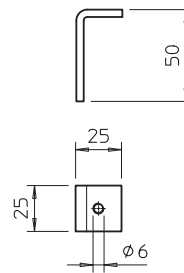
The profile is available in bright steel on request.

St FT

Welding angle

| Type | Dimension mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------|--------------|------------|-------------------|----------|
| ASW FT | 25x50 | 10 | 5.700 | 6015350 |

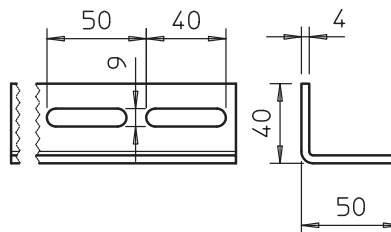
Welding angle for mounting shipbuilding cable ladders and marine trays, for welding to steel structures.



St SG

WESP 50 SG angle profile

| Type | Length mm | Metal thickness mm | Pack m | Weight kg/100 m | Item no. |
|---------------|-----------|--------------------|--------|-----------------|----------|
| WESP 50 40 SG | 3000 | 4.00 | 3 | 239.340 | 7105675 |



Angle profile with longitudinal perforation row to create suspension and support constructions.

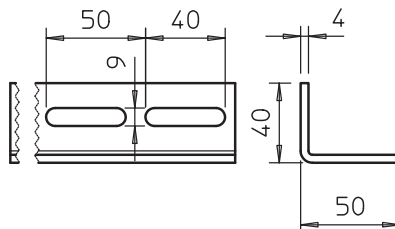
Angle profile WESP 50

St FT



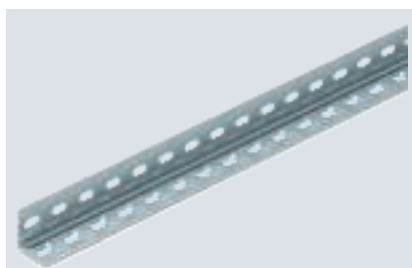
Angle profile with longitudinal perforation row to create suspension and support constructions.

| Type | Length mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|---------------|--------------|-------------------------------|-----------|--------------------|----------|
| WESP 50 40 FT | 3000 | 4.00 | 3 | 246.340 | 7105673 |



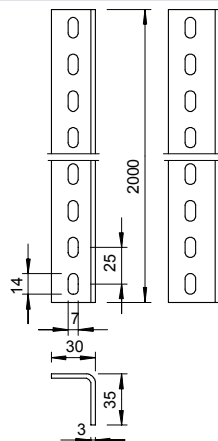
Angle profile WP30/35

St FT



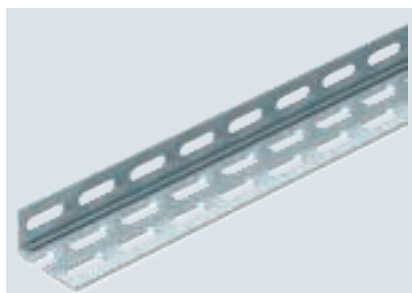
Angle profile, perforated on both sides, for creation of special support structures.

| 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 |



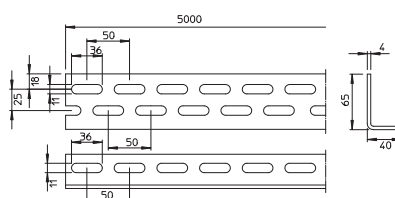
Angle profile WP40/65

St FT



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

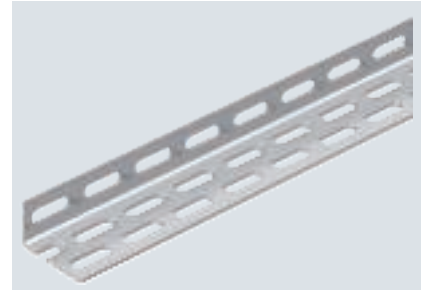
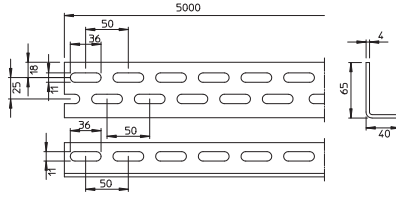
| Type | Length mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|------------------|--------------|-------------------------------|-----------|--------------------|----------|
| WP 40 65 5000 FT | 5000 | 4.00 | 5 | 250.000 | 6373070 |



VA 2B

Angle profile WP40/65

| 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 |

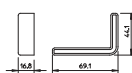
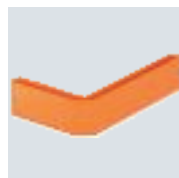


Angle profile, perforated on both sides, for creation of special support structures.



End cap WE 40/65

PE

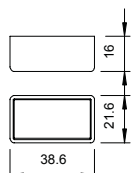


| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|---------------|------------|-------------------|----------|
| WPK SR OR | Pastel orange | 20 | 0.600 | 6372881 |
| WPK SL OR | Pastel orange | 20 | 0.600 | 6372898 |

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

End cap CM3518/AM3518

PE

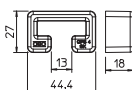


| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|---------------|------------|-------------------|----------|
| CM3518 SK | Pastel orange | 50 | 0.384 | 1124502 |

End cap for profile rail types CM3518 and AM3518.

End cap MS4022

PE

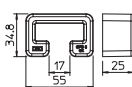


| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|---------------|------------|-------------------|----------|
| MS4022 SK | Pastel orange | 25 | 0.647 | 1124555 |

End caps for profile rail, type MS4022.

End cap MS5030

PE

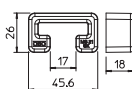


| Type | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|---------------|------------|-------------------|----------|
| MS5030 SK | Pastel orange | 25 | 1.147 | 1124563 |

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.

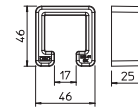
PE



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.

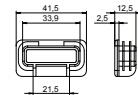


PE

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.

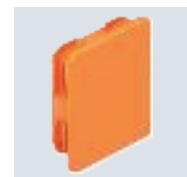
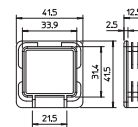


PE

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.

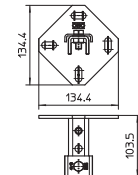


St FT

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.



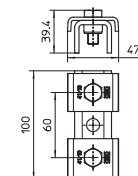
St FT

Rail connector SV with 3 holes

| 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 |

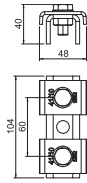
The rail connector is used to extend the mounting rail MS4141. The connection can be made simply and securely on the construction site or prefabricated in the workshop. There is a guarantee that there is no weak point in the area of the rail coupling. The static values of the mounting rail apply here.

Scope of delivery:
Retaining plates, type 4141, and suitable hexagonal bolts included loosely.



Rail connector SV with 3 holes

VA 2B



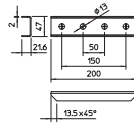
| Type | Version | Dimension | Material thickness mm | Length mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------|-----------|-----------------------|-----------|------------|-------------------|----------|
| | | W x H mm | | | | | |
| SVE 41 A2 | Perforated | 47x39,4 | 4 | 100 | 10 | 42.000 | 1123126 |

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.

Connector

St FT

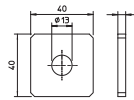
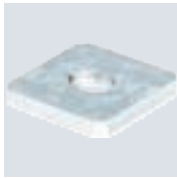


| Type | Version | Pack Piece | Weight kg/100 pc. | Item no. |
|------|---------|------------|-------------------|----------|
| | | | | |

Connector gripping from outside with four holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

Connection plate with 1 hole

St FT

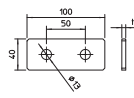


| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------|-----------------------|------------|-------------------|----------|
| | | | | |

Connection plate with lengthwise slot, for example for mounting threaded rods to profile rails 41 x 41 mm and 41 x 21 mm.

Connection plate with 2 holes

St FT

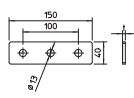


| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------|-----------------------|------------|-------------------|----------|
| | | | | |

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

Connection plate with 3 holes

St FT



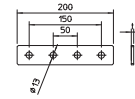
| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------|-----------------------|------------|-------------------|----------|
| | | | | |

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

St FT

Connection plate with 4 holes

| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|-----------------------|------------|-------------------|----------|
| GMS 4 VP FT | 5 | 10 | 35.580 | 1124649 |

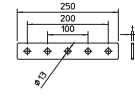


Connection plate with four holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

St FT

Connection plate with 5 holes

| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|-----------------------|------------|-------------------|----------|
| GMS 5 VP FT | 5 | 10 | 40.000 | 1124651 |

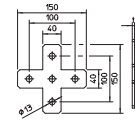


Connection plate with five holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

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 |

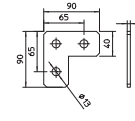


Connection plate with five holes for cross connection of profile rails 41 x 41 mm and 41 x 21 mm.

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 |

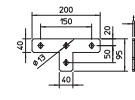


Connection plate with three holes for angled connection of profile rails 41 x 41 mm and 41 x 21 mm.

St FT

Connection plate, T-shaped

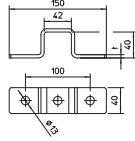
| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|-----------------------|------------|-------------------|----------|
| GMS 4 VP T FT | 5 | 10 | 41.000 | 1124655 |



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

Omega clamp

St FT

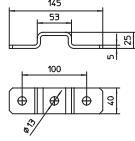


| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------------|-----------------------|------------|-------------------|----------|
| GMS 3 O 4141 FT | 5 | 10 | 35.000 | 1124673 |

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

Omega clamp

St FT

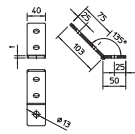


| Type | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------------|-----------------------|------------|-------------------|----------|
| GMS 3 O 4121 FT | 5 | 10 | 26.540 | 1124671 |

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

Mounting bracket, 45° with 3 holes

St FT

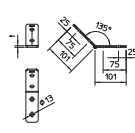


| Type | Version | Shipping box Piece | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|-----------|--------------------|------------|-------------------|----------|
| GMS 3 VW 45 FT | 45° angle | 40 | 10 | 24.010 | 1124667 |

Mounting bracket with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 45°.

Mounting bracket, 45° with 4 holes

St FT

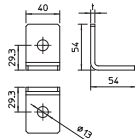


| Type | Version | Shipping box Piece | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|-----------|--------------------|------------|-------------------|----------|
| GMS 4 VW 45 FT | 45° angle | 40 | 10 | 32.000 | 1124669 |

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, 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 |

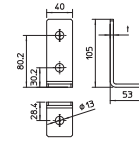
Mounting bracket with two holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

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°.

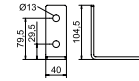


St FT

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°.

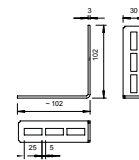


St FT

90° mounting bracket

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---------|------------|-------------------|----------|
| CMW90FT | 25 | 11.000 | 6350151 |

For stable 90° angle fastening of individual mountings.

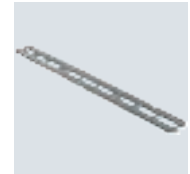
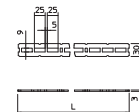


St FT

Self-build profile

| Type | Length mm | Pack m | Weight kg/100 m | Item no. |
|------------|-----------|--------|-----------------|----------|
| CMCP3000FT | 3000 | 30 | 55.000 | 6350208 |

Flat iron with slots for individual mounting.

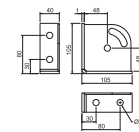


St VA FT 2B

Mounting bracket, 90° with 6 holes

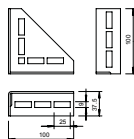
| Type | Version | Material thickness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|-------------|-----------------------|------------|-------------------|----------|
| GMS 6 KD FT | 90° bracket | 5 | 10 | 50.900 | 1124792 |
| GMS 6 KD A2 | 90° bracket | 5 | 10 | 48.800 | 1124796 |

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



Triangular node

St FT

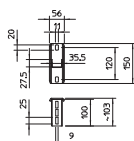


| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|-------------------|----------|
| CM3518 KD FT | 25 | 22.000 | 6350100 |

For stable corner fastening of individual mountings.

Head plate

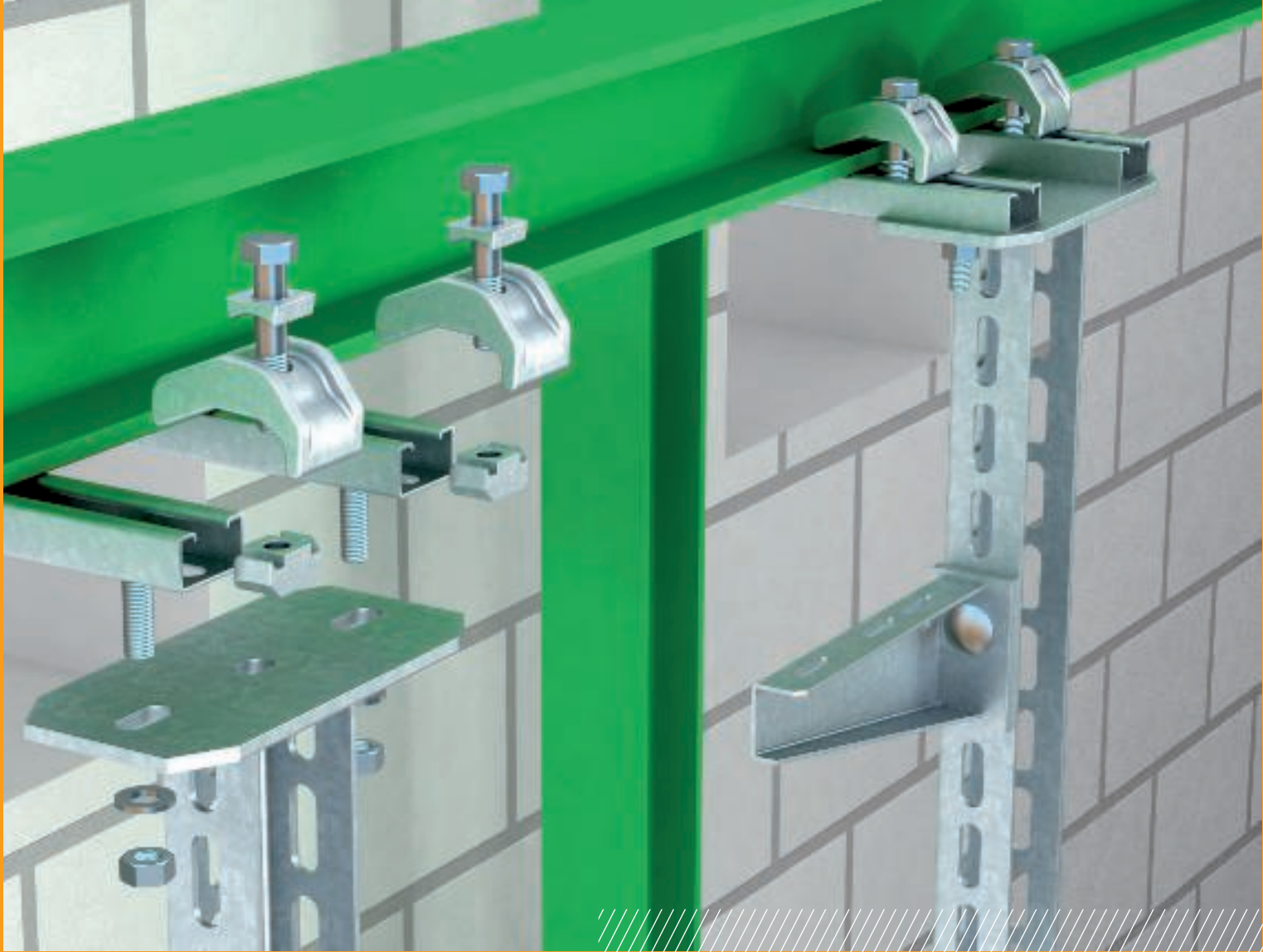
St FT



| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|-------------------|----------|
| CM3518 KP FT | 25 | 42.000 | 6350054 |

For wall and ceiling fastening of individual mountings.





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

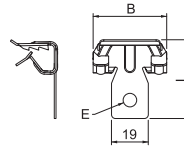


St ZL

Beam clamp, with fastening hole

| 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.

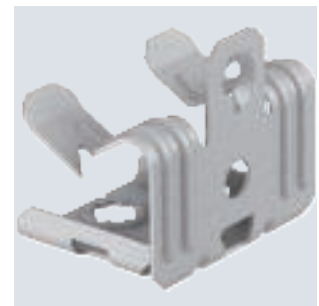
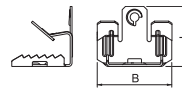


St ZL

Beam clamp, with female thread

| 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.

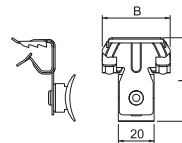


St ZL

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 |

Support clamp for knocking in with cable tie as individual fastening solution on the support.

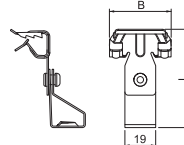


St ZL

Beam clamp, for threaded rod

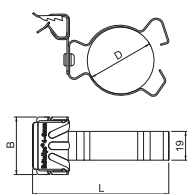
| Type | Flange thickness mm | Thread | Breaking load N | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|---------------------|--------|-----------------|------------|-------------------|----------|
| BCTR 4-8 M6 | 4-8 | M6 | 650 | 50 | 3.100 | 1483661 |
| BCTR 8-14 M6 | 8-14 | M6 | 650 | 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.



Beam clamp, for pipes

St ZL

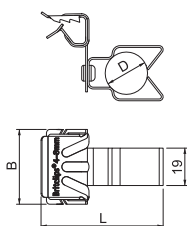


| Type | Flange thickness mm | Clamping range D mm | Breaking load N | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------------|---------------------|---------------------|-----------------|------------|-------------------|----------|
| BCHPC 2-4 D20 | 2-4 | 18-24 | 450 | 50 | 2.900 | 1483681 |
| 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

St ZL

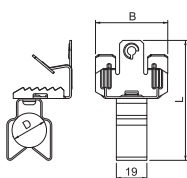


| Type | Flange thickness mm | Pipe size D mm | Breaking load N | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------------|---------------------|----------------|-----------------|------------|-------------------|----------|
| BCHPO 2-4 D20 | 2-4 | 20 | 110 | 50 | 2.950 | 1483811 |
| BCHPO 2-4 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.

Beam clamp, for pipes

St ZL



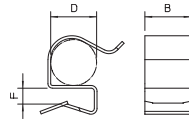
| Type | Flange thickness mm | Pipe size D mm | Breaking load N | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|---------------------|----------------|-----------------|------------|-------------------|----------|
| BCVPO 3-7 D20 | 3-7 | 20 | 110 | 50 | 3.400 | 1483751 |
| BCVPO 3-7 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.

St ZL

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 |



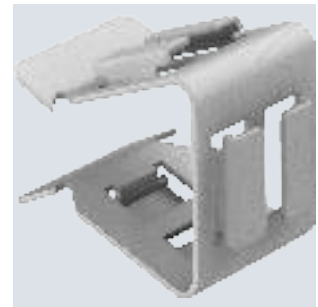
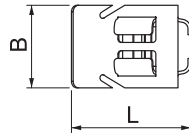
Beam clamp for knocking in for cables as individual fastening solution on the beam.

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 |

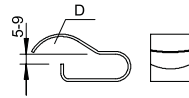
Beam clamp adapter for knocking in. Seat for BCC beam clamps for flange thicknesses of 2 - 4 mm.



St ZL

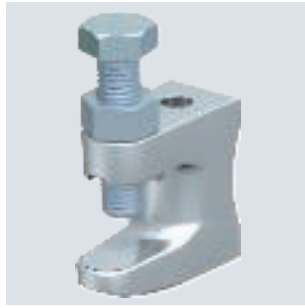
Support clip

| 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 |



Screw-in beam clamp, with gland hole

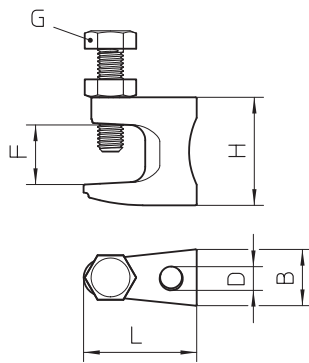
TG



| 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.

Dimensions



| Type | Dim. B mm | Dim. D mm | Dim. F mm | Dimen- sion G | Dim. H mm | Dim. L mm |
|---------|-----------|-----------|-----------|---------------|-----------|-----------|
| FL 1 TG | 19 | 9 | 18 | M8 | 35 | 38 |
| FL 2 TG | 21 | 11 | 20 | M10 | 42 | 44 |
| FL 3 TG | 23.5 | 13 | 26 | M10 | 54 | 58 |

Screw-in beam clamp, with thread

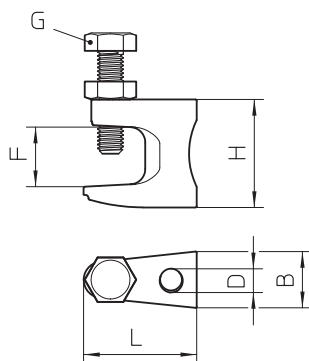
TG



| 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.

Dimensions



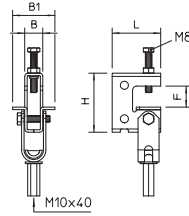
| Type | Dim. B mm | Dim. F mm | Dimen- sion G | Dim. H mm | Dim. L mm |
|--------------|-----------|-----------|---------------|-----------|-----------|
| FL1-G M8 TG | 19 | 18 | M8 | 35 | 38 |
| FL2-G M10 TG | 21 | 20 | M10 | 42 | 44 |
| FL3-G M12 TG | 23.5 | 26 | M10 | 54 | 58 |

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.

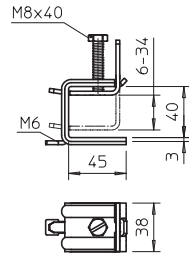


St G

Beam clamp for screwing on, light-duty

| 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.



St FT

Beam clamp SSP 6-21

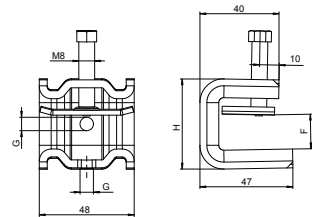
| Type | Flange thickness mm | For threaded rod | Breaking load F1 kN | Breaking load F2 kN | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|---------------------|------------------|---------------------|---------------------|------------|-------------------|----------|
| SSP 6-21 M6 FT | 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.



| Type | Dim. B mm | Dim. H mm | Dim. L mm |
|----------------|-----------|-----------|-----------|
| SSP 6-21 M6 FT | 48 | 46 | 47 |

Dimensions



Beam clamp SSP 6-21

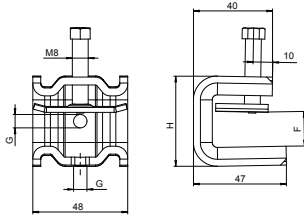
VA A2 2B



| 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 M8 A2 | 6-21 | M8 | 1.75 | 1.5 | 25 | 23.200 | 1486284 |

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.

Dimensions



| Type | Dim. B mm | Dim. H mm | Dim. L mm |
|----------------|--------------|--------------|--------------|
| SSP 6-21 M6 A2 | 48 | 46 | 47 |

Beam clamp SSP 20-40

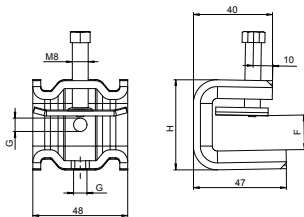
St FT



| Type | Flange thickness mm | For threaded rod | Breaking load F1 kN | Breaking load F2 kN | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------------|------------------------|------------------|------------------------|------------------------|------------|-------------------|----------|
| SSP 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.

Dimensions



| Type | Dim. B mm | Dim. H mm | Dim. L mm |
|-----------------|--------------|--------------|--------------|
| SSP 20-40 M6 FT | 48 | 65 | 47 |

VA A2 2B

Beam clamp SSP 20-40

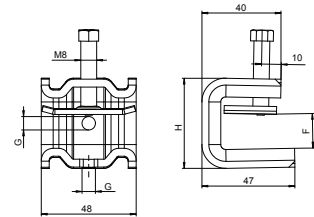
| Type | Flange thickness mm | For threaded rod | Breaking load F1 kN | Breaking load F2 kN | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------------|---------------------|------------------|---------------------|---------------------|------------|-------------------|----------|
| SSP 20-40 M6 A2 | 20-40 | M6 | 1.4 | 1.3 | 25 | 27.700 | 1486242 |
| SSP 20-40 M8 A2 | 20-40 | M8 | 1.4 | 1.3 | 25 | 27.800 | 1486292 |

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.



| Type | Dim. B mm | Dim. H mm | Dim. L mm |
|-----------------|-----------|-----------|-----------|
| SSP 20-40 M6 A2 | 48 | 65 | 47 |

Dimensions



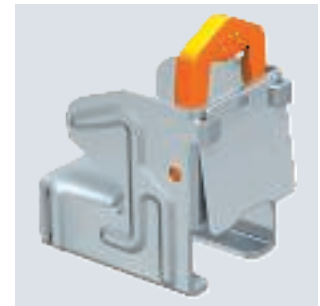
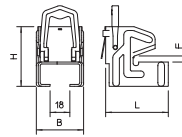
Special beam clamps

St ZL

Beam clamp, for profile rail CM3518

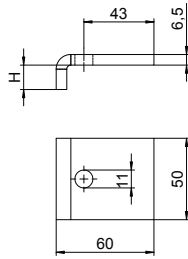
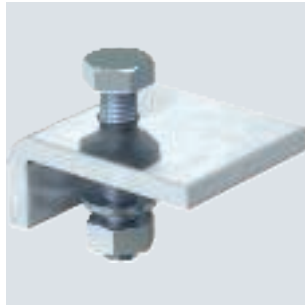
| Type | Flange thickness mm | Height mm | Width mm | Length mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------|---------------------|-----------|----------|-----------|------------|-------------------|----------|
| 328 1 | 5-11 | 54.3 | 39.5 | 57 | 50 | 10.800 | 1408011 |
| 328 2 | 10-19 | 54.3 | 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.



Clamping angle KL

St FT

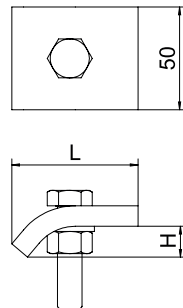
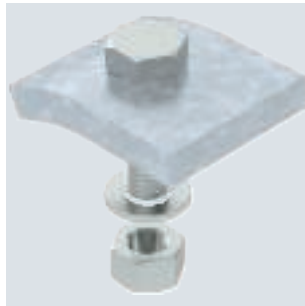


| Type | Height mm | Bolt | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|-----------|--------|------------|-------------------|----------|
| KL1 10 S FT | 10 | M10x40 | 10 | 22.100 | 6354106 |
| KL1 15 S FT | 15 | M10x50 | 10 | 23.400 | 6354114 |
| KL1 20 S FT | 20 | M10x50 | 10 | 25.000 | 6354122 |

Clamping lug, 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

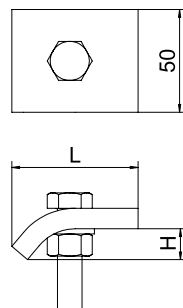
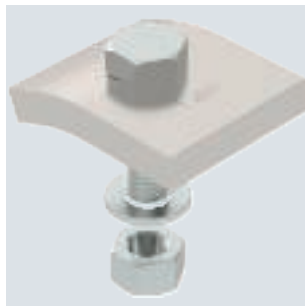


| Type | F in kN | Bolt | Dim. H mm | Pack Pair | Weight kg/100 pairs | Item no. |
|-----------|---------|--------|-----------|-----------|---------------------|----------|
| KWS 5 FT | 5.7 | M12x40 | 5 | 10 | 64.000 | 6355218 |
| KWS 10 FT | 5.7 | M12x50 | 10 | 10 | 70.000 | 6355226 |
| KWS 15 FT | 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 KWS

VA 2B

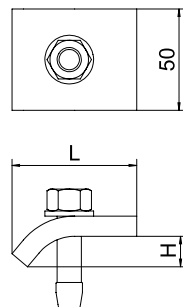
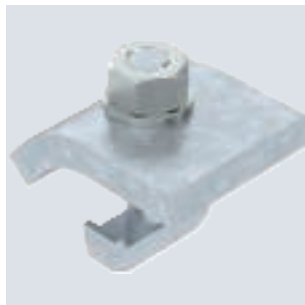


| Type | F in kN | Bolt | Dim. H mm | Pack Pair | Weight kg/100 pairs | Item no. |
|-----------|---------|--------|-----------|-----------|---------------------|----------|
| KWS 5 A2 | 5.7 | M12x40 | 5 | 5 | 62.000 | 6355404 |
| KWS 10 A2 | 5.7 | M12x50 | 10 | 5 | 68.000 | 6355412 |
| KWS 15 A2 | 5.7 | M12x50 | 15 | 5 | 73.000 | 6355420 |
| KWS 20 A2 | 5.7 | M12x60 | 20 | 5 | 77.000 | 6355439 |
| KWS 25 A2 | 5.7 | M12x60 | 25 | 5 | 81.000 | 6355447 |

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.

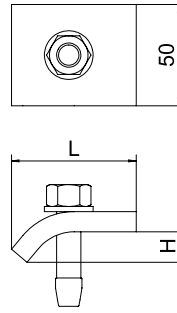
Adapt the clamping angle to the material thickness of the flange.
The clamping angle is used in conjunction with profile rails of slot width 22 mm.

VA 2B

Clamping angle KWH

| Type | Height mm | F in kN | Bolt | Pack Pair | Weight kg/100 pairs | Item no. |
|------------------|--------------|---------|--------|--------------|------------------------|----------------|
| KWH 5 A2 | 5 | 5.7 | M12x40 | 5 | 65.000 | 6355307 |
| KWH 10 A2 | 10 | 5.7 | M12x50 | 5 | 71.000 | 6355315 |
| KWH 15 A2 | 15 | 5.7 | M12x50 | 5 | 73.000 | 6355323 |
| KWH 20 A2 | 20 | 5.7 | M12x60 | 5 | 80.000 | 6355331 |
| KWH 25 A2 | 25 | 5.7 | M12x60 | 5 | 84.000 | 6355358 |

Clamping angle, with hammer-head bolt, type KWH, for fixing in the profile rail, type CPS 5. Choose the clamping angle according to the thickness of the flange. The clamping angle is used in conjunction with profile rails of slot width 22 mm (e.g. type CPS 5).

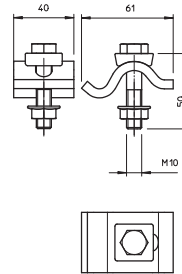


St FT

Chuck jaw, light duty TKS

| Type | Height mm | F in 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.

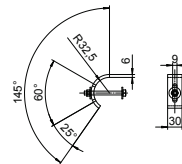


St FT

Chuck jaw, light-duty TKS

| Type | Height mm | Bolt | F in 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.

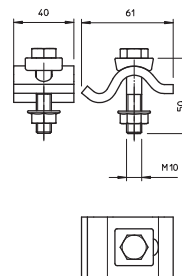


St FT

Chuck jaw, light-duty TKS

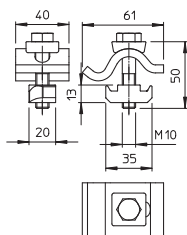
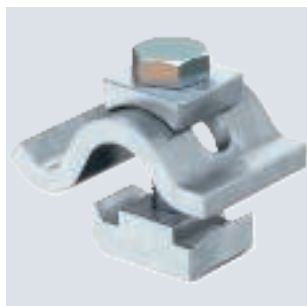
| Type | Height mm | Bolt | F in kN | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------------|--------------|--------|---------|---------------|----------------------|----------------|
| TKS-L-36 M12 FT | 36 | M12x80 | 10 | 25 | 36.000 | 6355829 |

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.



Chuck jaw, light duty TKH

St FT

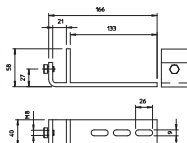


| Type | Height F in kN | | Bolt | Pack Pair | Weight kg/100 pairs | Item no. |
|-------------|----------------|----|--------|-----------|---------------------|----------|
| | mm | kN | | | | |
| TKH-L-25 FT | 25 | 10 | M10x25 | 10 | 46.000 | 6355812 |

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.

Beam clamp, vertical BFK 166

St FT

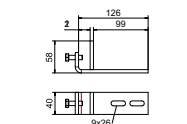


| Type | Width mm | Dim. mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|----------|---------|--|------------|-------------------|----------|
| | | b | | | | |
| BFK 166 58 20 FT | 166 | 133 | | 10 | 45.000 | 6003888 |

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

Beam clamp, vertical BFK 132

St FT

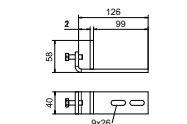


| Type | Width mm | Dim. mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|----------|---------|--|------------|-------------------|----------|
| | | b | | | | |
| BFK 132 58 FT | 132 | 99 | | 10 | 39.000 | 6003880 |

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

Beam clamp, vertical BFK 132

VA 2B



| Type | Width mm | Dim. mm | | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|----------|---------|--|------------|-------------------|----------|
| | | b | | | | |
| BFK 132 58 A2 | 132 | 99 | | 10 | 38.000 | 6003871 |

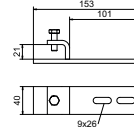
Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs vertically.

St FT

Beam clamp, horizontal BFK 153

| 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.

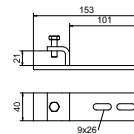


VA 2B

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.

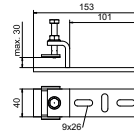


St FT

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.

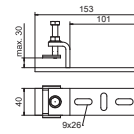


VA 2B

Beam clamp with pressure plate, horizontal BFK 153

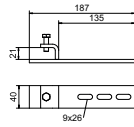
| Type | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------------------|----------|------|------------|-------------------|----------------|
| | Width mm | b mm | | | |
| BFKD 153 44 A2 | 153 | 101 | 10 | 42.400 | 6003887 |

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



Beam clamp, horizontal BFK 187

St FT



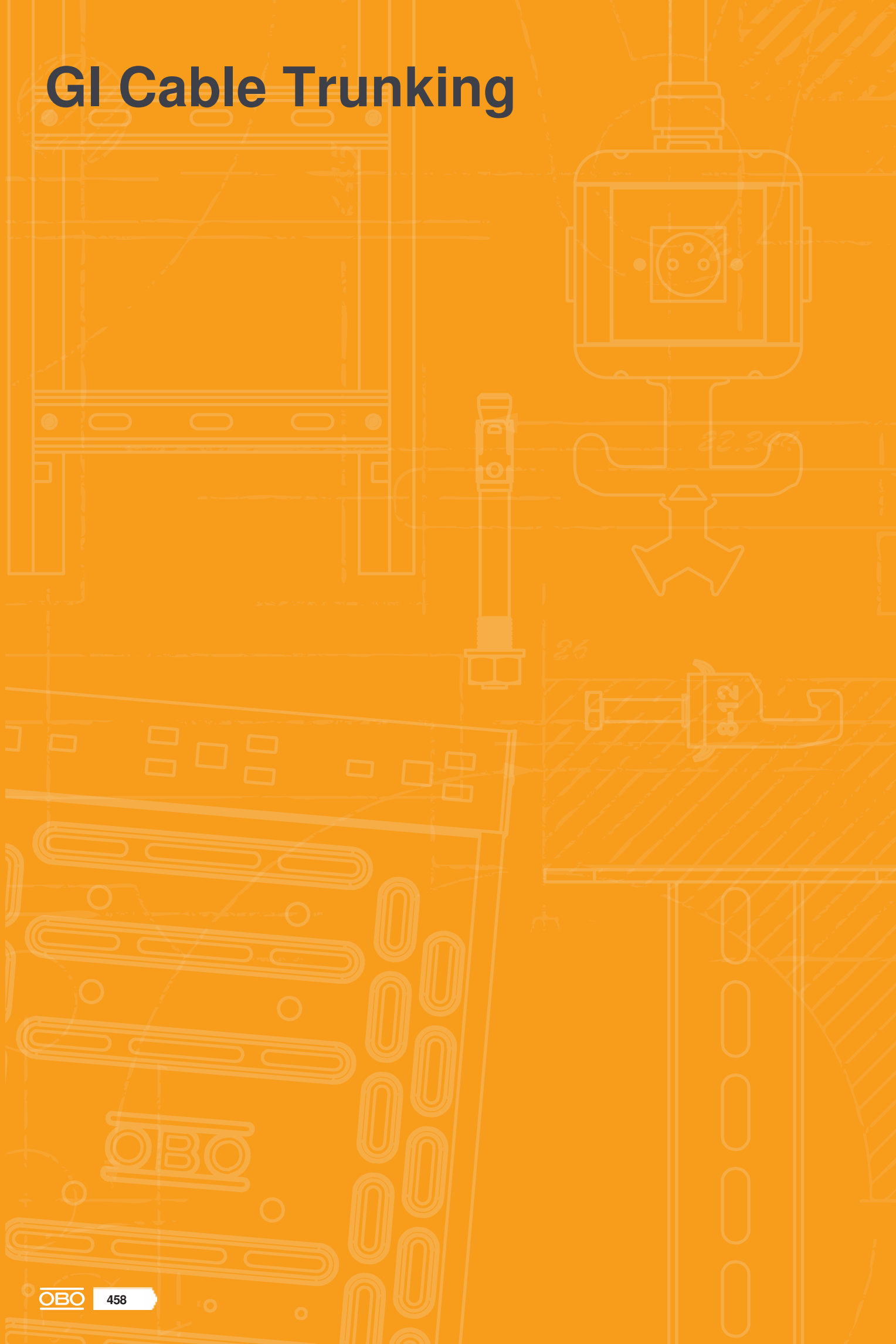
| Type | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------------|----------|------|------------|-------------------|----------------|
| | Width mm | b mm | | | |
| BFK 187 33 FT | 187 | 135 | 10 | 43.000 | 6003892 |

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











GI Cable Trunking

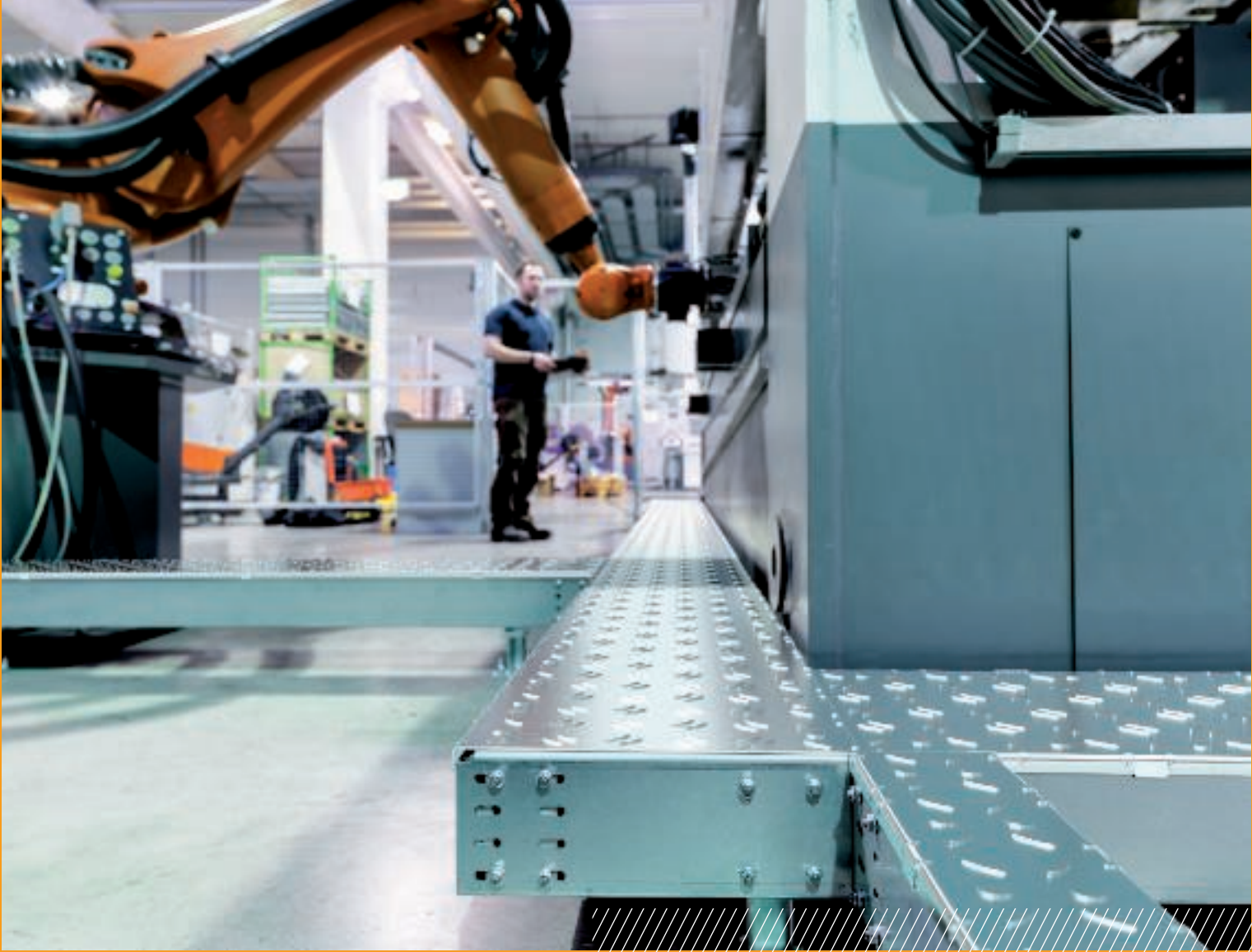
Industrial ducts



GI Cable Trunking

| | | |
|---|---|-----|
|  | Walkable cable trays | 460 |
|  | Metal cable routing ducts | 464 |
|  | AZ small ducts | 474 |
|  | Luminaire support rails/luminaire support trays | 488 |
|  | Fittings, cable routing ducts | 498 |
|  | Connector | 506 |
|  | Lid | 508 |
|  | Accessories | 510 |

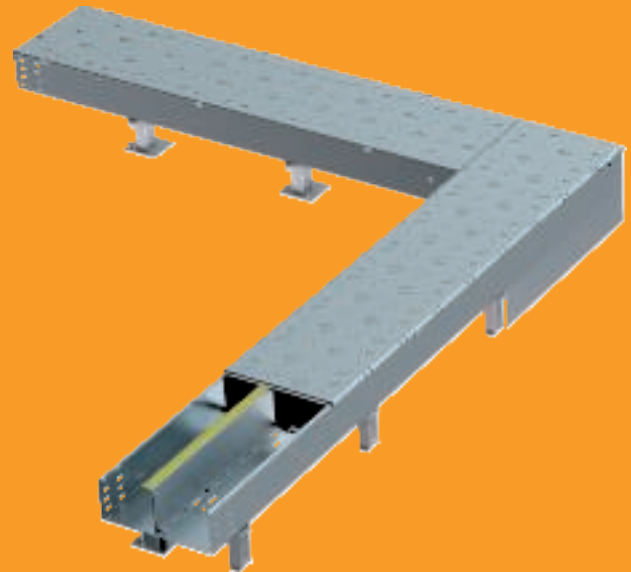




Walkable cable tray system BKRS

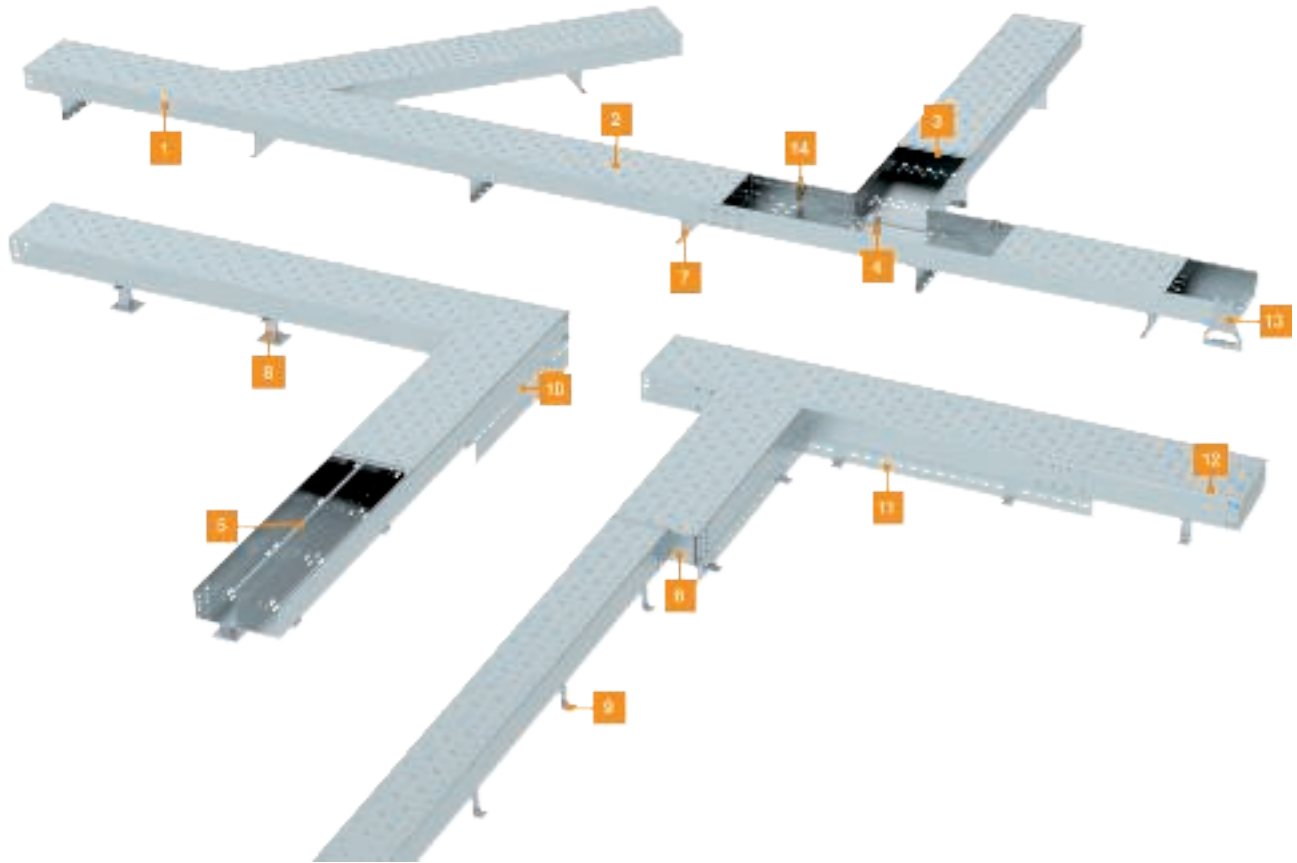
OBO's BKRS walkable cable tray systems offer safe access to machines and systems. Trays, covers, support brackets and support profiles can accept large loads on account of their construction.

- High footfall load of minimum 350 kg
- High material stability
- Optimal accident prevention
- Slip resistance: R11
- Displacement space: V10



Cable tray system, walkable

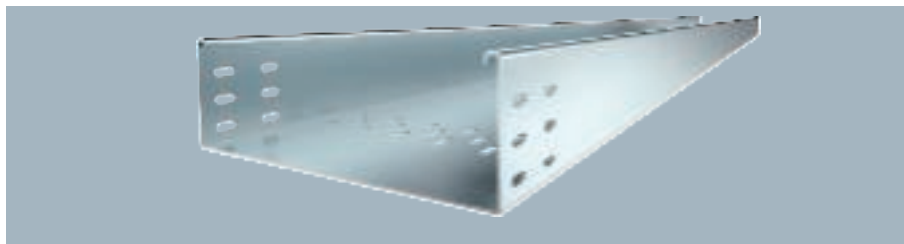
Installation principle



| | | | | |
|----|--------------------------------------|---------|----|--|
| 1 | BKRS cable tray | BKRS | 11 | Protective panel for Z supports |
| 2 | Chequer plate cover | DBKR | 12 | Cover clamp |
| 3 | Dust protection element | | 13 | Cover lifter |
| 4 | Cover support | DST 110 | 14 | Clamp spring for conductor cable and connection terminal |
| 5 | Z-shaped barrier strip | TSG100Z | | |
| 6 | Reducing bracket | | | |
| 7 | Support profile | STP Z | | |
| 8 | Support bracket | | | |
| 9 | Z support | | | |
| 10 | Protective panel for support bracket | | | |



Cable tray BKRS 100

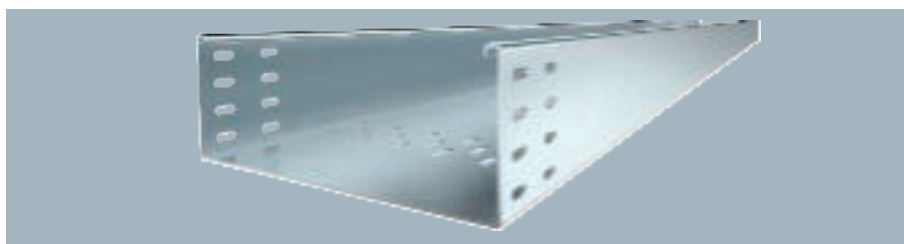


Heavy-duty, walkable cable tray system BKRS with base perforation, in 100 mm side height.

The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.

| 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 |

Cable tray BKRS 110



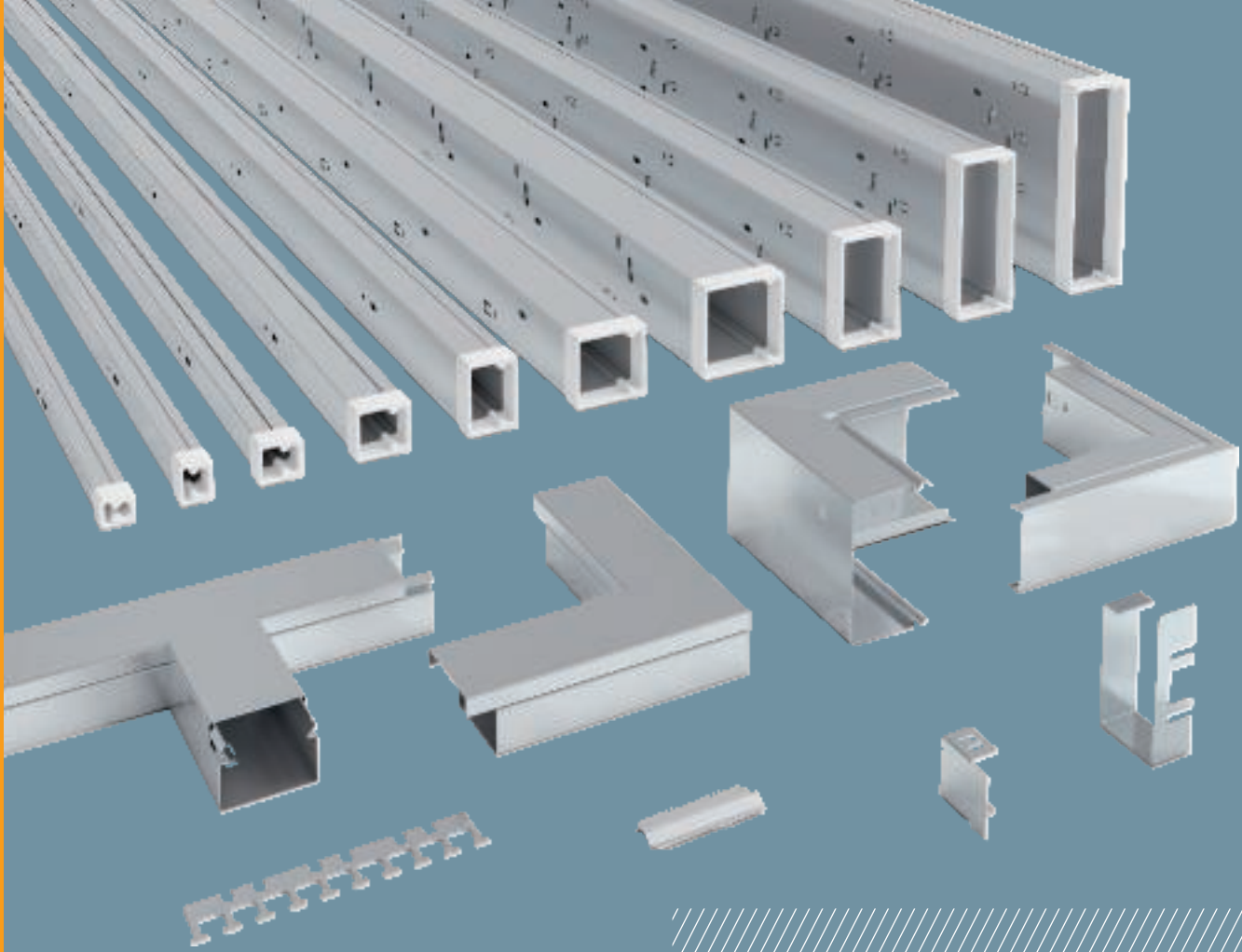
Heavy-duty, walkable cable tray system BKRS with base perforation, in 110 mm side height.

The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.

| 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 | 514.770 | 6061981 |
| BKRS 1120 FS | 110 | 110 | 200 | 3000 | 2.00 | 3 | 659.567 | 6061983 |
| BKRS 1130 FS | 110 | 110 | 300 | 3000 | 2.00 | 3 | 806.267 | 6061985 |
| BKRS 1140 FS | 110 | 110 | 400 | 3000 | 2.00 | 3 | 952.967 | 6061987 |
| BKRS 1150 FS | 110 | 110 | 500 | 3000 | 2.00 | 3 | 1,099.700 | 6061989 |
| BKRS 1160 FS | 110 | 110 | 600 | 3000 | 2.00 | 3 | 1,260.800 | 6061991 |







LKM cable ducts, metal

A wide range of practical mounting details make the LKM cable ducts a reliable partner during cable routing.



Partition



Duct clamp



Secure equipotential bonding



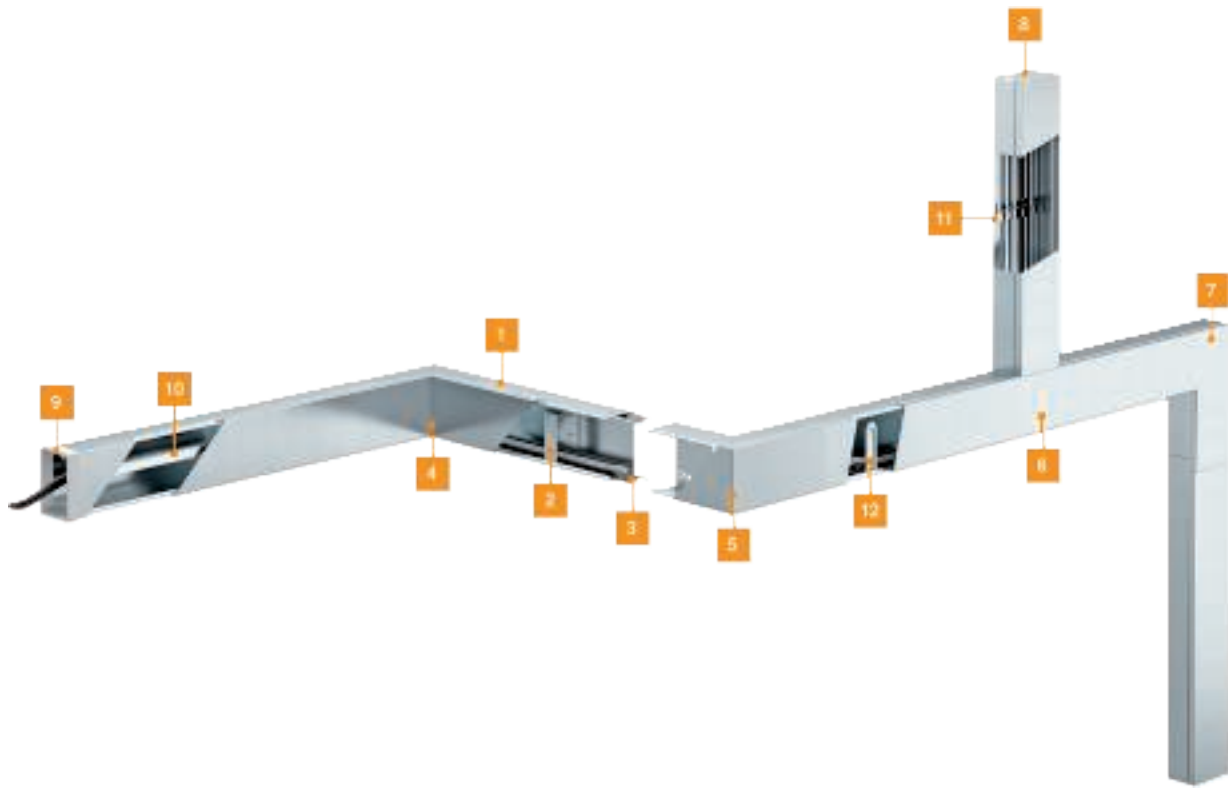
Cable brackets



Edge protection

LKM cable ducts, metal

Installation principle



| | | |
|----|---|---------|
| 1 | Trunking | LKM |
| 2 | Duct clamp for the maintenance of electrical function | LKM KF |
| 3 | Joint connector | LKM SV |
| 4 | Internal corner | LKM I |
| 5 | External corner | LKM A |
| 6 | T piece | LKM T |
| 7 | Flat angle | LKM F |
| 8 | End piece | LKM E |
| 9 | Edge protection ring | KSR |
| 10 | Partition | LKM TWS |
| 11 | Cable brackets | LKM Z |
| 12 | Duct clamp | LKM KF |



Maintenance of electrical function LKM cable routing ducts



Horizontal wall and ceiling mounting.



Routing of power, data or fire alarm cables in the duct, type LKM60100.



Tidy routing of data and fire alarm cables in the duct, type 20030.



Retaining clamps locked into the base as installation aid for wall mounting.



Retaining clamps as mounting aid for the insertion of cables for ceiling mounting.



S30

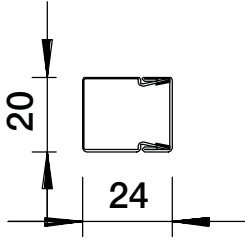
S60

S90

Cable routing with metal cable ducts, type LKM, is approved as a cable-specific routing type for the maintenance of electrical function classes E 30, E 60 and E 90 according to DIN 4102 Part 12. The ducts may be routed horizontally on the wall or under the ceiling and offer additional mechanical protection of the installed cables. This installation variant is also used if, for reasons of appearance, open routing of the cables with the maintenance of electrical function is not wanted. A retaining clamp is available as an installation aid for the duct type LKM60100. This prevents cables from falling out in the case of wall and ceiling mounting. When cable installation has been completed, the duct cover is locked onto the duct base.

St FS

Cable trunking, type LKM 20020

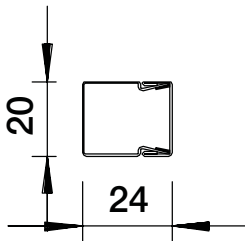


Duct cover and base with base perforation. Equipotential bonding is guaranteed between the cover and the base without any additional aids.

| Type | Length mm | Pack m | Weight kg/100 m | Item no. |
|------------|--------------|-----------|--------------------|----------|
| LKM20020FS | 2000 | 2 | 46.000 | 6246966 |

St FSK

Cable trunking, type LKM 20020

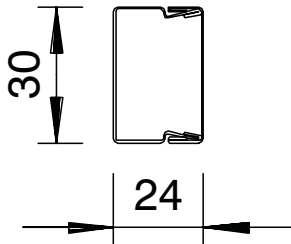


Duct cover and base with base perforation. Equipotential bonding is guaranteed between the cover and the base without any additional aids.

| Type | Length mm | Pack m | Weight kg/100 m | Item no. |
|------------|--------------|-----------|--------------------|----------|
| LKM20020RW | 2000 | 2 | 52.000 | 6248462 |

St FS

Cable trunking, type LKM 20030



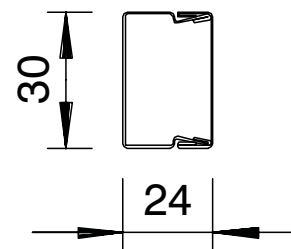
Trunking cover and base with base perforation. Equipotential bonding is guaranteed between the cover and the base without any additional aids. The LKM cable trunking, type LKM 20030FS, has been tested for the maintenance of electrical function as a routing system according to DIN 4102 Part 12. Please note the cable types tested in the BSS fire protection systems division!

| Type | Colour | Length mm | Pack m | Weight kg/100 m | Item no. |
|------------|--------|--------------|-----------|--------------------|----------|
| LKM20030FS | — | 2000 | 2 | 58.000 | 6246974 |



Cable trunking, type LKM 20030

St FSK

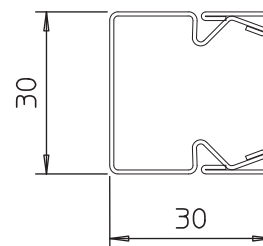


| Type | Colour | Length mm | Pack m | Weight kg/100 m | Item no. |
|------------|------------|--------------|-----------|--------------------|----------|
| LKM20030RW | Pure white | 2000 | 2 | 58.000 | 6248470 |

Trunking cover and base with base perforation. Equipotential bonding is guaranteed between the cover and the base without any additional aids. The LKM cable trunking, type LKM 20030FS, has been tested for the maintenance of electrical function as a routing system according to DIN 4102 Part 12. Please note the cable types tested in the BSS fire protection systems division!

Cable routing trunking, type LKM 30030

St FS FSK

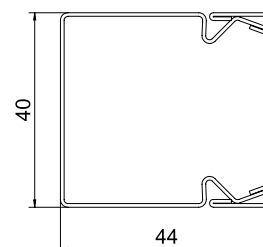


| Type | Colour | Length mm | Pack m | Weight kg/100 m | Item no. |
|------------|------------|--------------|-----------|--------------------|----------|
| LKM30030FS | – | 2000 | 2 | 62.000 | 6246985 |
| LKM30030RW | Pure white | 2000 | 2 | 62.000 | 6248489 |

Trunking cover and base with base perforation. Equipotential bonding is guaranteed between the cover and the base without any additional aids.

Cable trunking, type LKM 40040

St FS

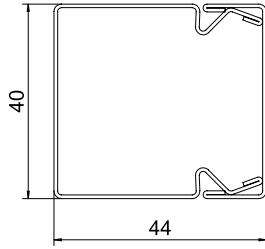


| Type | Colour | Length mm | Pack m | Weight kg/100 m | Item no. |
|------------|--------|--------------|-----------|--------------------|----------|
| LKM40040FS | – | 2000 | 2 | 117.000 | 6246990 |

Trunking cover and base with base perforation. Equipotential bonding is guaranteed between the cover and the base without any additional aids.

St FSK

Cable trunking, type LKM 40040

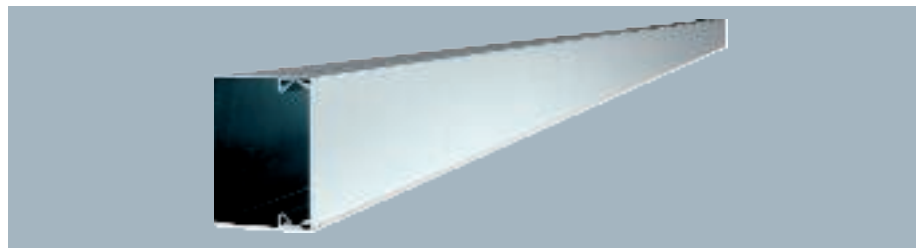
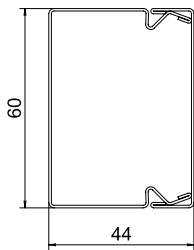


Trunking cover and base with base perforation. Equipotential bonding is guaranteed between the cover and the base without any additional aids.

| Type | Colour | Length mm | Pack m | Weight kg/100 m | Item no. |
|------------|------------|--------------|-----------|--------------------|----------|
| LKM40040RW | Pure white | 2000 | 2 | 127.600 | 6248497 |

St FS

Cable trunking, type LKM 40060

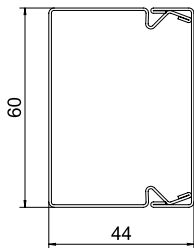


Trunking cover and base with base perforation. Equipotential bonding is guaranteed between the cover and the base without any additional aids.

| Type | Colour | Length mm | Pack m | Weight kg/100 m | Item no. |
|------------|--------|--------------|-----------|--------------------|----------|
| LKM40060FS | - | 2000 | 2 | 151.200 | 6247016 |

St FSK

Cable trunking, type LKM 40060

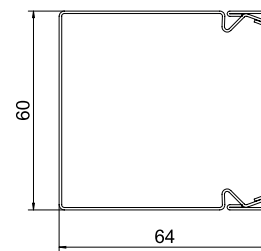
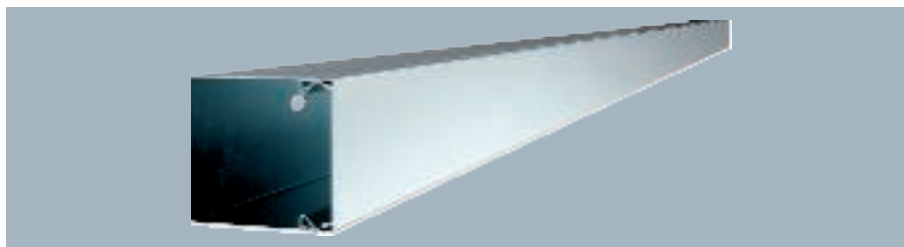


Trunking cover and base with base perforation. Equipotential bonding is guaranteed between the cover and the base without any additional aids.

| Type | Colour | Length mm | Pack m | Weight kg/100 m | Item no. |
|------------|------------|--------------|-----------|--------------------|----------|
| LKM40060RW | Pure white | 2000 | 2 | 151.200 | 6248519 |

Cable trunking, type LKM 60060

St FS

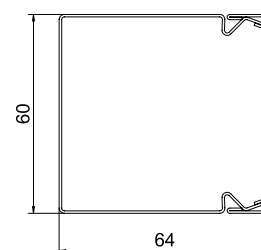


| Type | Colour | Length mm | Pack m | Weight kg/100 m | Item no. |
|------------|--------|--------------|-----------|--------------------|----------|
| LKM60060FS | – | 2000 | 2 | 174.700 | 6247091 |

Trunking cover and base with base perforation. Equipotential bonding is guaranteed between the cover and the base without any additional aids. Note: LKM 60060 has no loop perforation in the base, a partition cannot be installed.

Cable trunking, type LKM 60060

St FSK

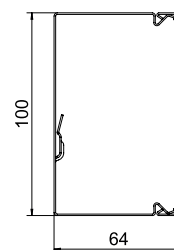
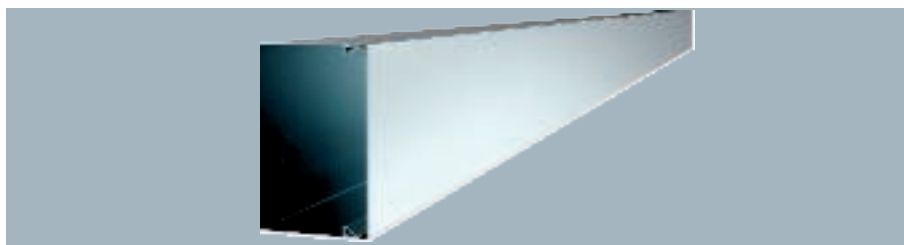


| Type | Colour | Length mm | Pack m | Weight kg/100 m | Item no. |
|------------|------------|--------------|-----------|--------------------|----------|
| LKM60060RW | Pure white | 2000 | 2 | 174.700 | 6248608 |

Trunking cover and base with base perforation. Equipotential bonding is guaranteed between the cover and the base without any additional aids. Note: LKM 60060 has no loop perforation in the base, a partition cannot be installed.

Cable trunking, type LKM 60100

St FS

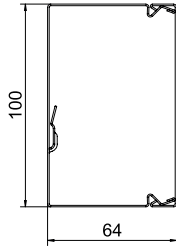


| Type | Colour | Length mm | Pack m | Weight kg/100 m | Item no. |
|------------|--------|--------------|-----------|--------------------|----------|
| LKM60100FS | – | 2000 | 2 | 221.700 | 6247113 |

Trunking cover and base with base perforation. Equipotential bonding is guaranteed between the cover and the base without any additional aids. The LKM cable trunking, type LKM 60100FS, has been tested for the maintenance of electrical function as a routing system according to DIN 4102 Part 12. Please note the cable types tested in the BSS fire protection systems division!

St FSK

Cable trunking, type LKM 60100

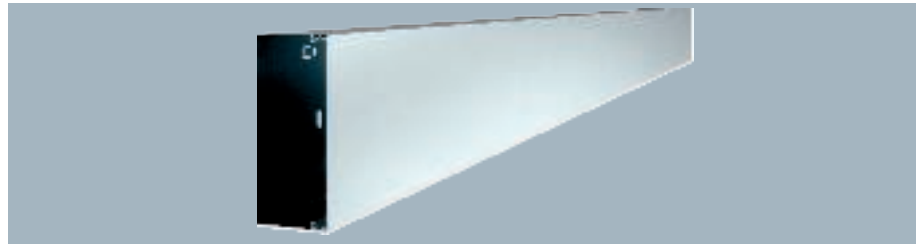
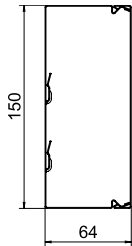


Trunking cover and base with base perforation. Equipotential bonding is guaranteed between the cover and the base without any additional aids. The LKM cable trunking, type LKM 60100FS, has been tested for the maintenance of electrical function as a routing system according to DIN 4102 Part 12. Please note the cable types tested in the BSS fire protection systems division!

| Type | Colour | Length mm | Pack m | Weight kg/100 m | Item no. |
|------------|------------|-----------|--------|-----------------|----------|
| LKM60100RW | Pure white | 2000 | 2 | 221.700 | 6248624 |

St FS

Cable trunking, type LKM 60150

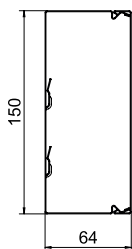


Trunking cover and base with base perforation. Equipotential bonding is guaranteed between the cover and the base without any additional aids.

| Type | Colour | Length mm | Pack m | Weight kg/100 m | Item no. |
|------------|--------|-----------|--------|-----------------|----------|
| LKM60150FS | — | 2000 | 2 | 280.100 | 6247148 |

St FSK

Cable trunking, type LKM 60150



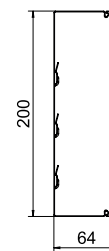
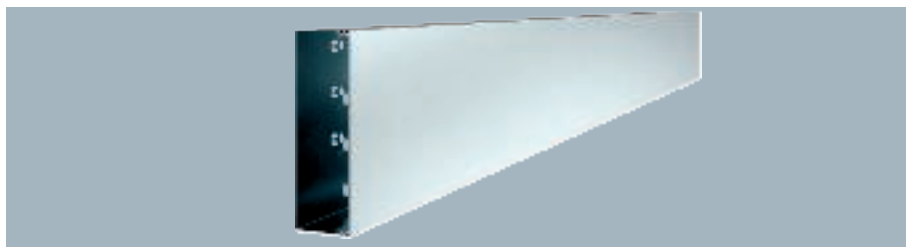
Trunking cover and base with base perforation. Equipotential bonding is guaranteed between the cover and the base without any additional aids.

| Type | Colour | Length mm | Pack m | Weight kg/100 m | Item no. |
|------------|------------|-----------|--------|-----------------|----------|
| LKM60150RW | Pure white | 2000 | 2 | 280.100 | 6248640 |



Cable trunking, type LKM 60200

St FS

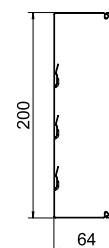
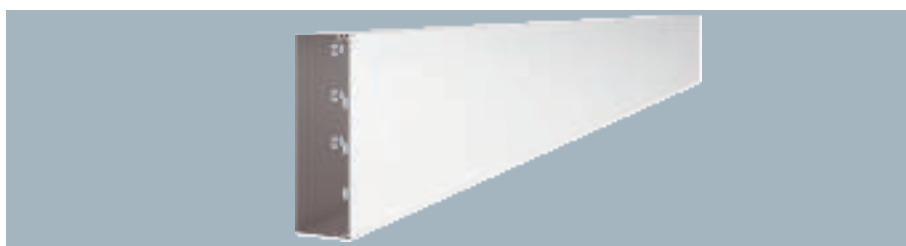


| Type | Colour | Length mm | Pack m | Weight kg/100 m | Item no. |
|------------|--------|--------------|-----------|--------------------|----------|
| LKM60200FS | – | 2000 | 2 | 338.700 | 6247164 |

Trunking cover and base with base perforation. Equipotential bonding is guaranteed between the cover and the base without any additional aids.

Cable trunking, type LKM 60200

St FSK

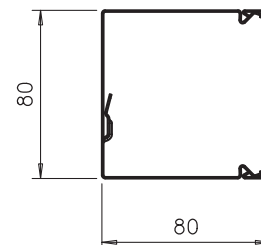
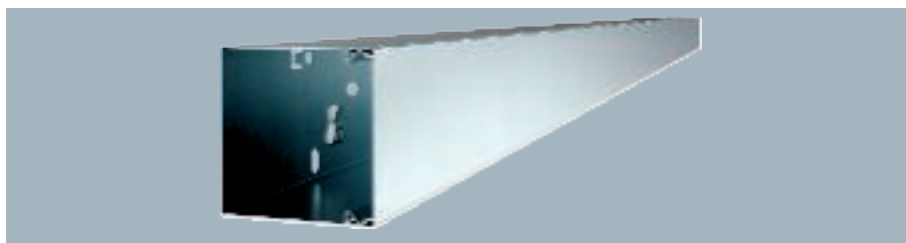


| Type | Colour | Length mm | Pack m | Weight kg/100 m | Item no. |
|------------|------------|--------------|-----------|--------------------|----------|
| LKM60200RW | Pure white | 2000 | 2 | 338.700 | 6248667 |

Trunking cover and base with base perforation. Equipotential bonding is guaranteed between the cover and the base without any additional aids.

Cable trunking, type LKM 80080

St FS

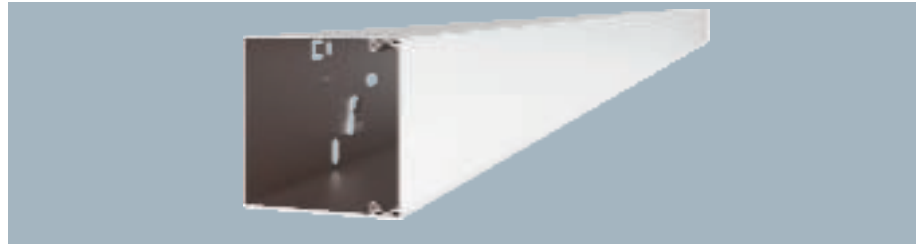
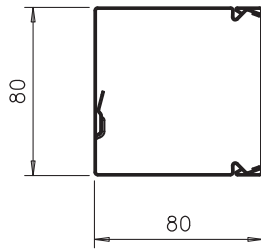


| Type | Colour | Length mm | Pack m | Weight kg/100 m | Item no. |
|------------|--------|--------------|-----------|--------------------|----------|
| LKM80080FS | – | 2000 | 2 | 215.000 | 6247194 |

Trunking cover and base with base perforation. Equipotential bonding is guaranteed between the cover and the base without any additional aids.

St FSK

Cable trunking, type LKM 80080



Trunking cover and base with base perforation. Equipotential bonding is guaranteed between the cover and the base without any additional aids.

| Type | Colour | Length mm | Pack | Weight | | Item no. |
|------------|------------|--------------|------|----------|---|----------|
| | | | m | kg/100 m | m | |
| LKM80080RW | Pure white | 2000 | 2 | 238.000 | | 6248694 |

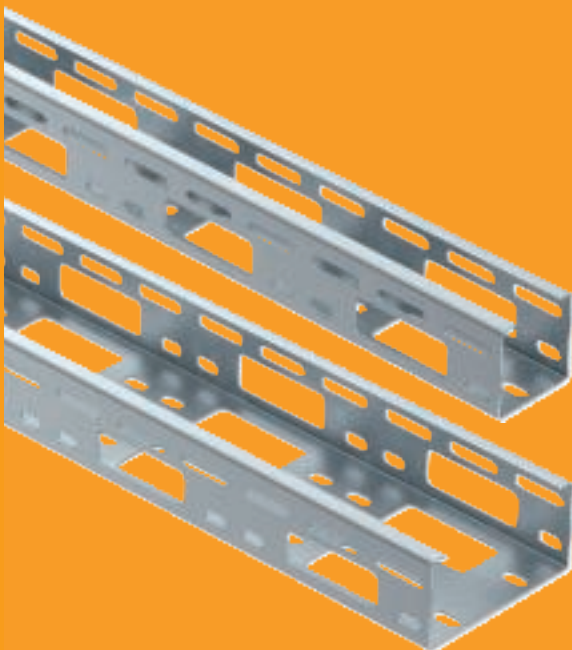




AZ small duct

Small duct for universal use with system perforation for cable ventilation and for cable penetration in the side rail and in the bottom.

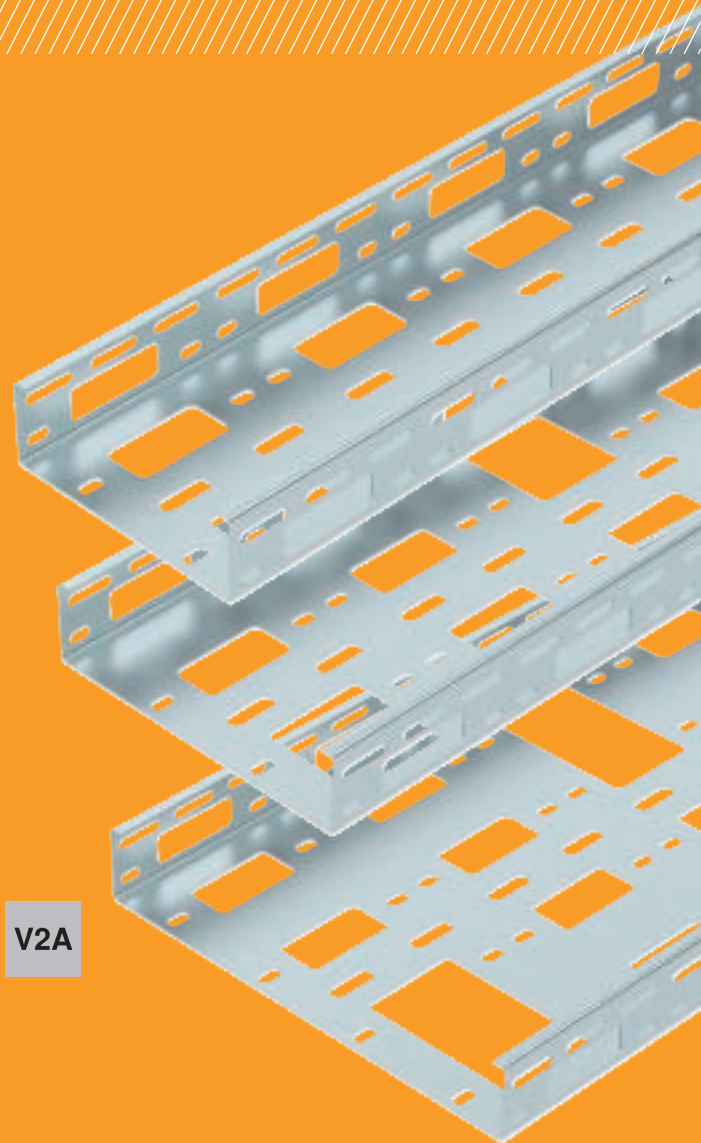
- Side height 50 mm
- Width 50, 100, 150, 200 and 300 mm



FS

FT

V2A



AZ small ducts

Installation principle

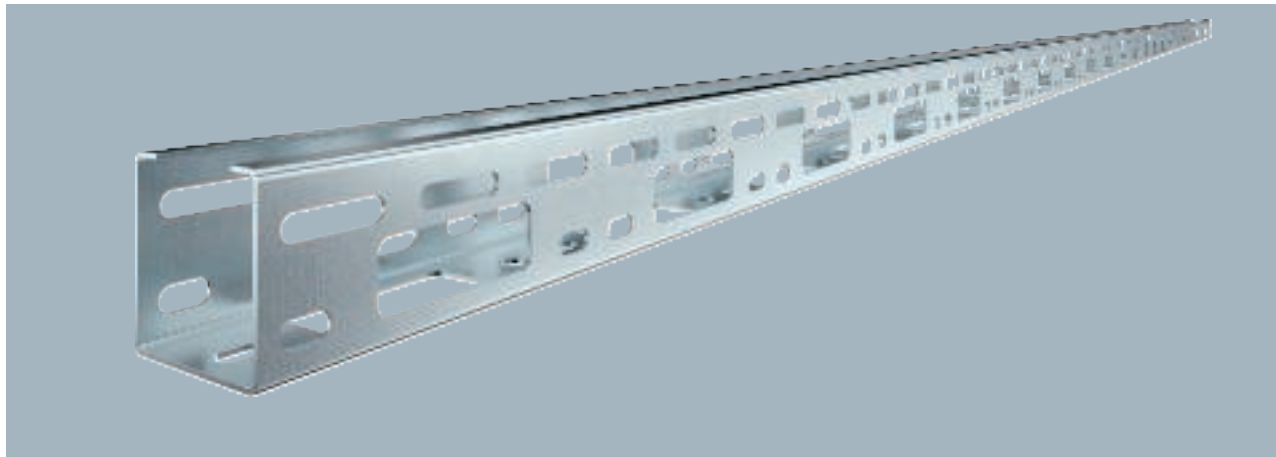


| | | |
|---|-----------------------------------|--------|
| 1 | AZ small duct | AZK |
| 2 | Straight and angle connector | RLVL |
| 3 | Motor connection column | |
| 4 | Cover for motor connection column | |
| 5 | Mounting plate | MP UNI |
| 6 | Edge protection ring | KSR |



AZ small duct 50

St FS

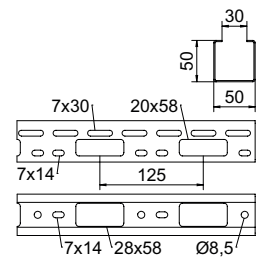


| Type | Pack m | Weight kg/100 m | Item no. |
|------------|--------|-----------------|----------|
| AZK 050 FS | 3 | 135.700 | 6075096 |

AZ channel with a side height of 50 mm.

| Type | Length mm | Width mm | Side height mm | Metal thickness mm |
|------------|-----------|----------|----------------|--------------------|
| AZK 050 FS | 3000 | 50 | 50 | 1.50 |

Dimensions

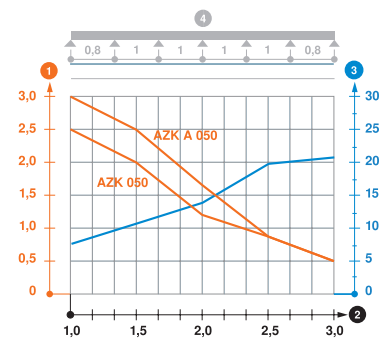


| | 1.0 m | 1.5 m | 2.0 m | 2.5 m | 3.0 m |
|------------|-------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/m | kN/m | kN/m |
| AZK 050 FS | 2.5 | 2 | 1.2 | 0.85 | 0.5 |

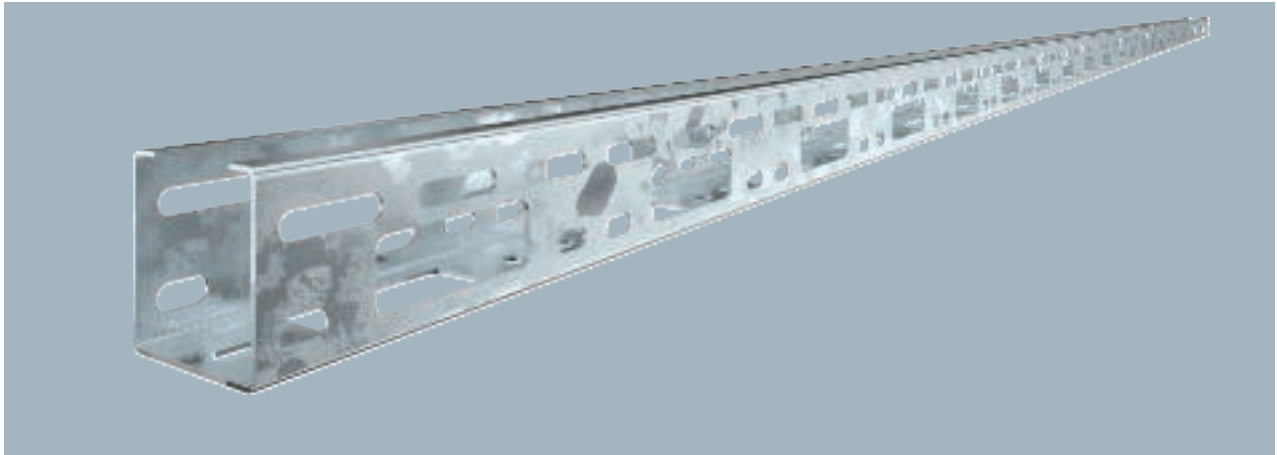
Load

Load diagram, AZ small duct

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



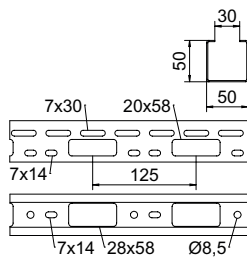
AZ small duct 50



AZ channel with a side height of 50 mm.

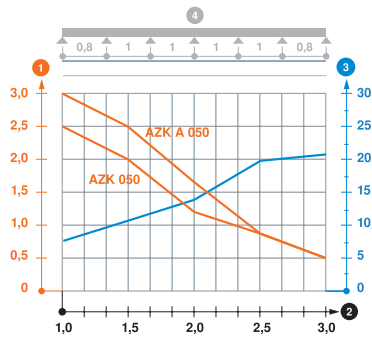
| Type | Pack m | Weight kg/100 m | Item no. |
|------------|--------|-----------------|----------|
| AZK 050 FT | 3 | 144.700 | 6075142 |

Dimensions



| Type | Length mm | Width mm | Side height mm | Metal thickness mm |
|------------|-----------|----------|----------------|--------------------|
| AZK 050 FT | 3000 | 50 | 50 | 1.50 |

Load

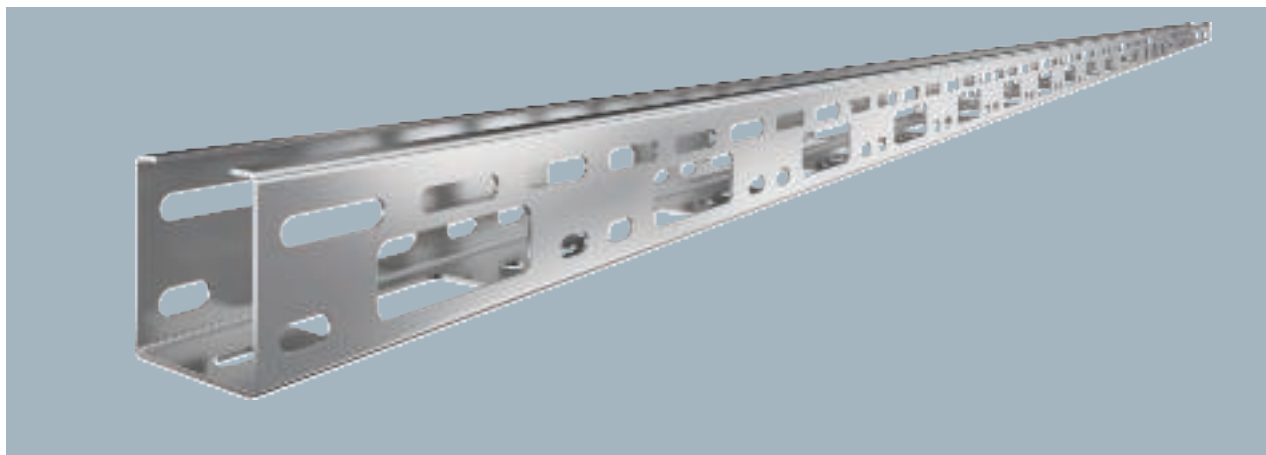


| | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|------------|------------|------------|------------|------------|------------|
| AZK 050 FT | 2.5 | 2 | 1.2 | 0.85 | 0.5 |

Load diagram, AZ small duct

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

AZ small duct 50

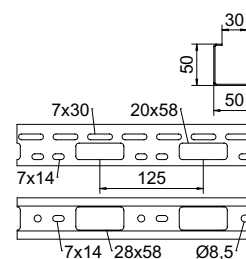


| Type | Pack m | Weight kg/100 m | Item no. |
|------------|--------|-----------------|----------|
| AZK 050 A2 | 3 | 135.700 | 6075150 |
| AZK 050 A4 | 3 | 135.700 | 6075152 |

AZ channel with a side height of 50 mm.

| Type | Length mm | Width mm | Side height mm | Metal thickness mm |
|------------|-----------|----------|----------------|--------------------|
| AZK 050 A2 | 3000 | 50 | 50 | 1.50 |

Dimensions

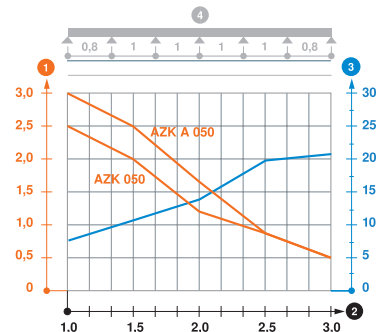


| | 1.0 m | 1.5 m | 2.0 m | 2.5 m | 3.0 m |
|------------|-------|-------|-------|-------|-------|
| AZK 050 A2 | 2.5 | 2 | 1.2 | 0.85 | 0.5 |

Load

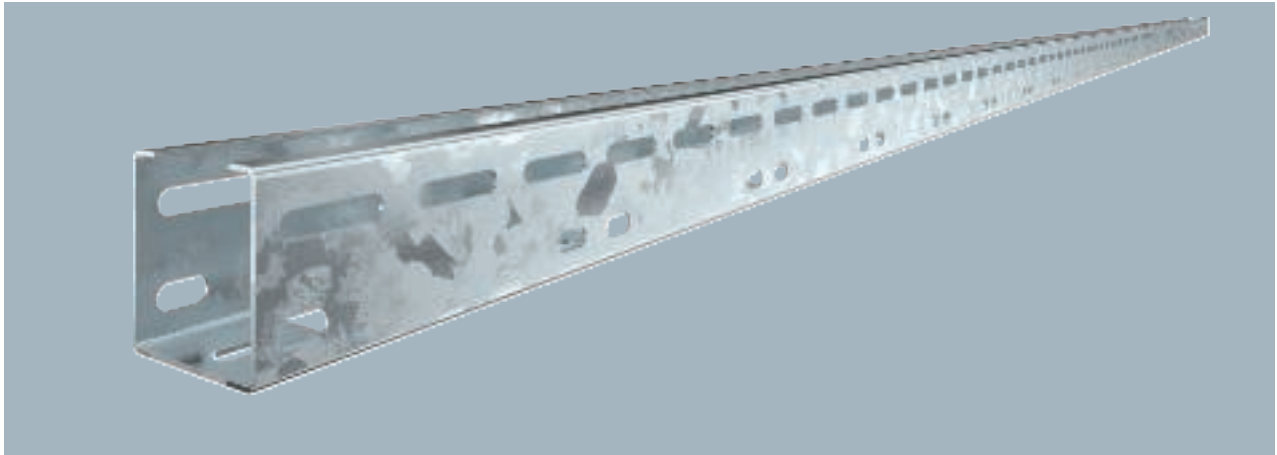
Load diagram, AZ small duct

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



St FT

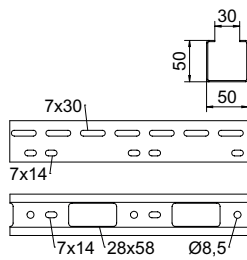
AZ small duct 50



AZ channel with a side height of 50 mm.

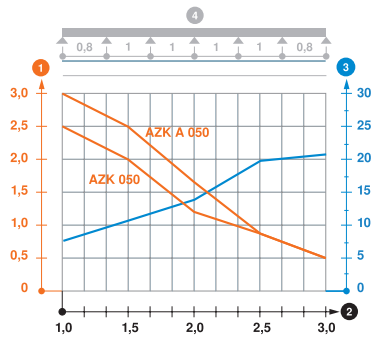
| Type | Pack m | Weight kg/100 m | Item no. |
|--------------|--------|-----------------|----------|
| AZK A 050 FT | 3 | 165.670 | 6076149 |

Dimensions



| Type | Length mm | Width mm | Side height mm | Metal thickness mm |
|--------------|-----------|----------|----------------|--------------------|
| AZK A 050 FT | 3000 | 50 | 50 | 1.50 |

Load



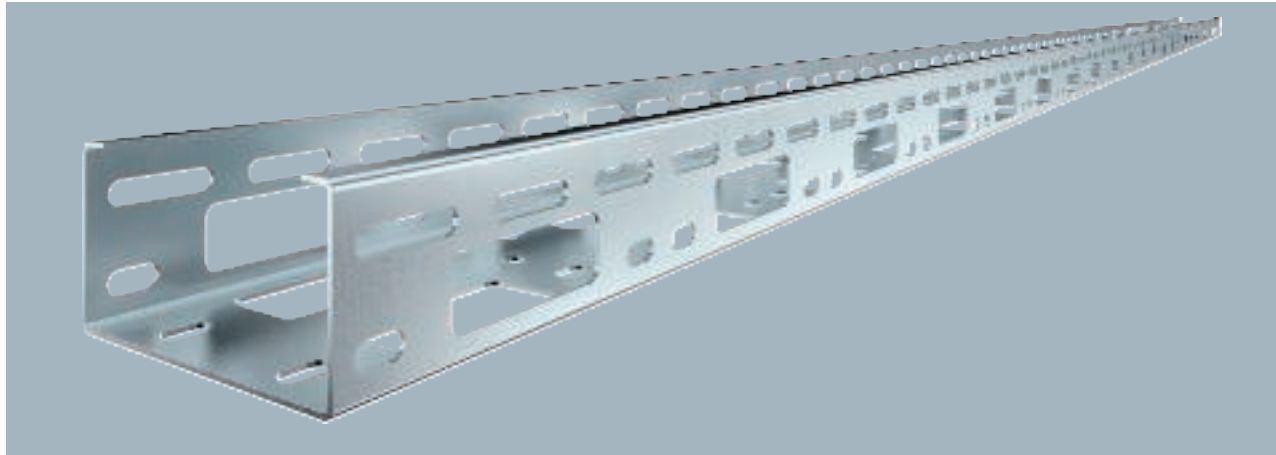
| | 1.0 m | 1.5 m | 2.0 m | 2.5 m | 3.0 m |
|--------------|-------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/m | kN/m | kN/m |
| AZK A 050 FT | 3 | 2.5 | 1.7 | 0.85 | 0.5 |

Load diagram, AZ channel

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



AZ channel 100

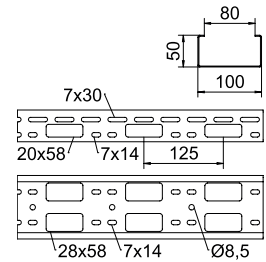


| Type | Pack | Weight | Item no. |
|------------|------|----------|----------|
| | m | kg/100 m | |
| AZK 100 FS | 3 | 176.940 | 6075231 |
| AZK 100 FT | 3 | 188.670 | 6075258 |

AZ channel with a side height of 50 mm.

| Type | Length | Width | Side height | Metal thickness |
|------------|--------|-------|-------------|-----------------|
| | mm | mm | mm | mm |
| AZK 100 FS | 3000 | 100 | 50 | 1.50 |

Dimensions

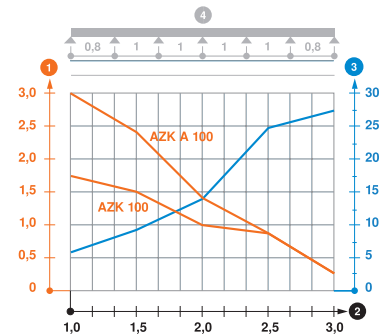


| | 1.0 m | 1.5 m | 2.0 m | 2.5 m | 3.0 m |
|------------|-------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/m | kN/m | kN/m |
| AZK 100 FS | 1.7 | 1.5 | 1 | 0.8 | 0.25 |

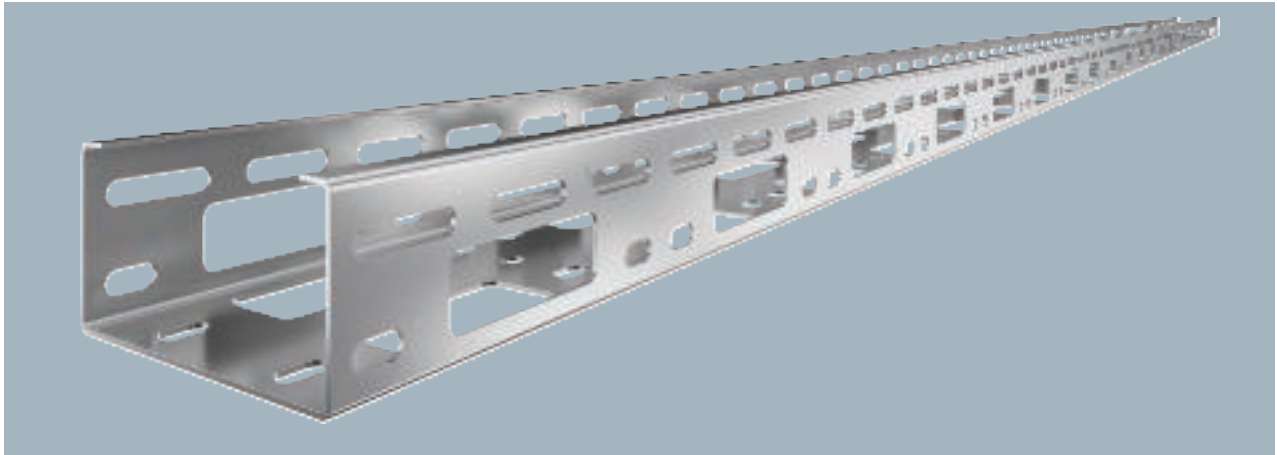
Load

Load diagram, AZ small duct

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



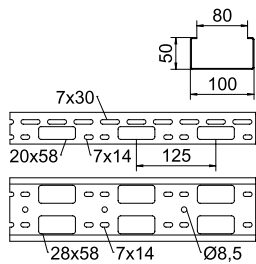
AZ channel 100



AZ channel with a side height of 50 mm.

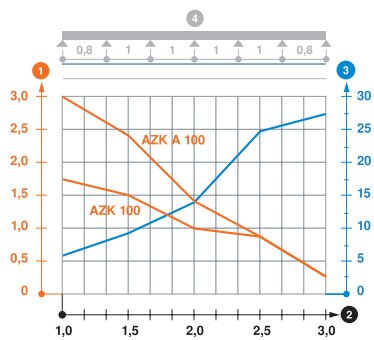
| Type | Pack m | Weight kg/100 m | Item no. |
|------------|--------|-----------------|----------|
| AZK 100 A2 | 3 | 176.934 | 6075304 |

Dimensions



| Type | Length mm | Width mm | Side height mm | Metal thickness mm |
|------------|-----------|----------|----------------|--------------------|
| AZK 100 A2 | 3000 | 100 | 50 | 1.50 |

Load



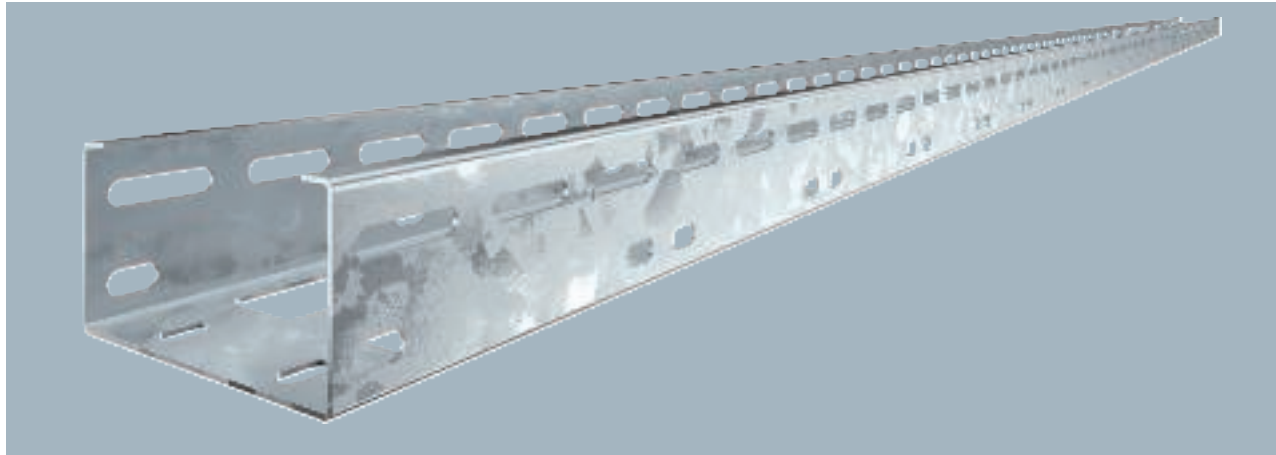
| Type | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|------------|------------|------------|------------|------------|------------|
| AZK 100 A2 | 1.7 | 1.5 | 1 | 0.8 | 0.25 |

Load diagram, AZ small duct

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

AZ channel 100

St FT

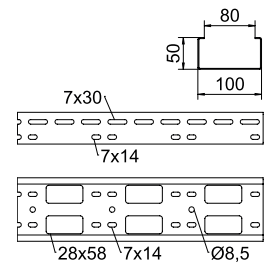


| Type | Pack m | Weight kg/100 m | Item no. |
|--------------|--------|-----------------|----------|
| AZK A 100 FT | 3 | 212.000 | 6076246 |

AZ channel with a side height of 50 mm.

| Type | Length mm | Width mm | Side height mm | Metal thickness mm |
|--------------|-----------|----------|----------------|--------------------|
| AZK A 100 FT | 3000 | 100 | 50 | 1.50 |

Dimensions

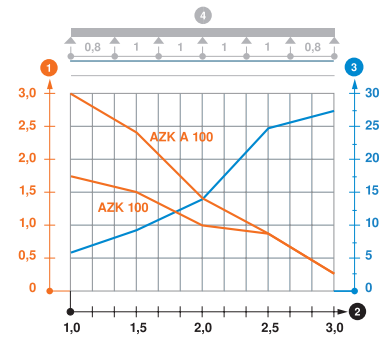


| | 1.0 m | 1.5 m | 2.0 m | 2.5 m | 3.0 m |
|--------------|-------|-------|-------|-------|-------|
| AZK A 100 FT | 3 | 2.4 | 1.4 | 0.8 | 0.25 |

Load

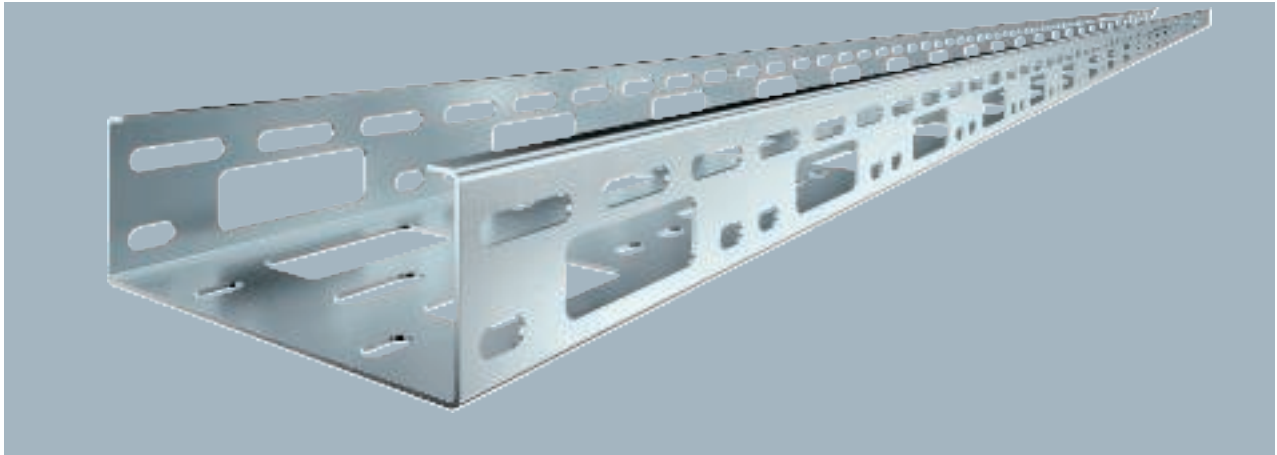
Load diagram, AZ channel

- 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



St FS FT

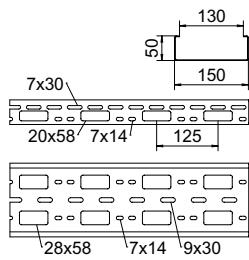
AZ small duct 150



AZ channel with a side height of 50 mm.

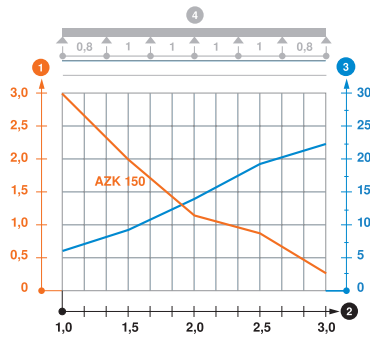
| Type | Pack | Weight | Item no. |
|------------|------|----------|----------|
| | m | kg/100 m | |
| AZK 150 FS | 3 | 231.670 | 6075320 |
| AZK 150 FT | 3 | 245.670 | 6075325 |

Dimensions



| Type | Length | Width | Side height | Metal thickness |
|------------|--------|-------|-------------|-----------------|
| | mm | mm | mm | mm |
| AZK 150 FS | 3000 | 150 | 50 | 1.50 |

Load



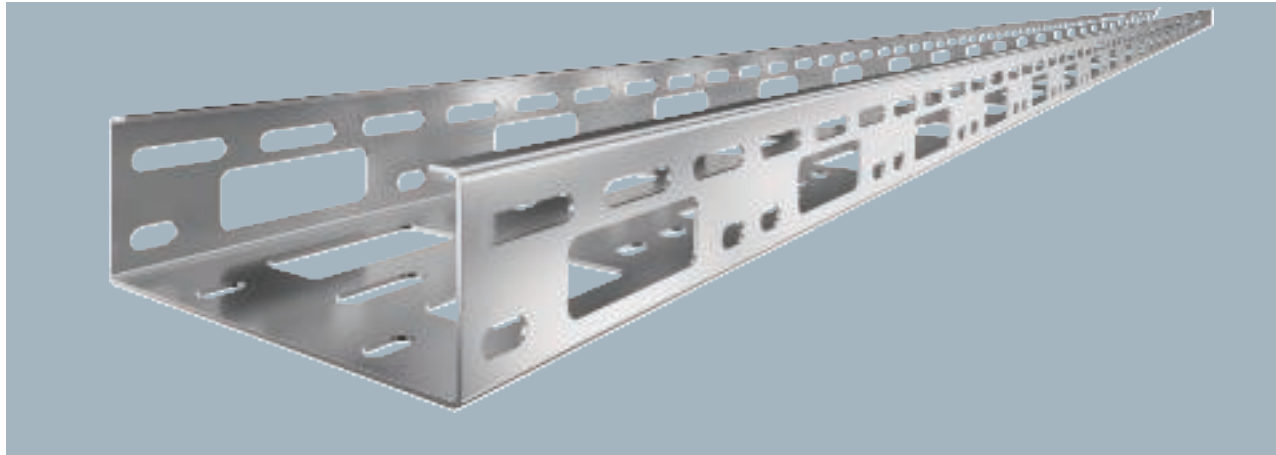
| | 1.0 m | 1.5 m | 2.0 m | 2.5 m | 3.0 m |
|------------|-------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/m | kN/m | kN/m |
| AZK 150 FS | 3 | 2 | 1.2 | 0.8 | 0.25 |

Load diagram, AZ small duct

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



AZ small duct 150

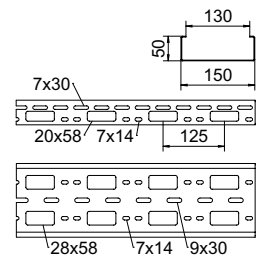


| Type | Pack m | Weight kg/100 m | Item no. |
|------------|--------|-----------------|----------|
| AZK 150 A2 | 3 | 231.660 | 6075330 |

AZ channel with a side height of 50 mm.

| Type | Length mm | Width mm | Side height mm | Metal thickness mm |
|------------|-----------|----------|----------------|--------------------|
| AZK 150 A2 | 3000 | 150 | 50 | 1.50 |

Dimensions

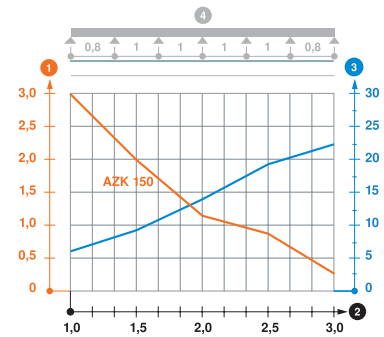


| | 1.0 m | 1.5 m | 2.0 m | 2.5 m | 3.0 m |
|------------|-------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/m | kN/m | kN/m |
| AZK 150 A2 | 3 | 2 | 1.2 | 0.8 | 0.25 |

Load

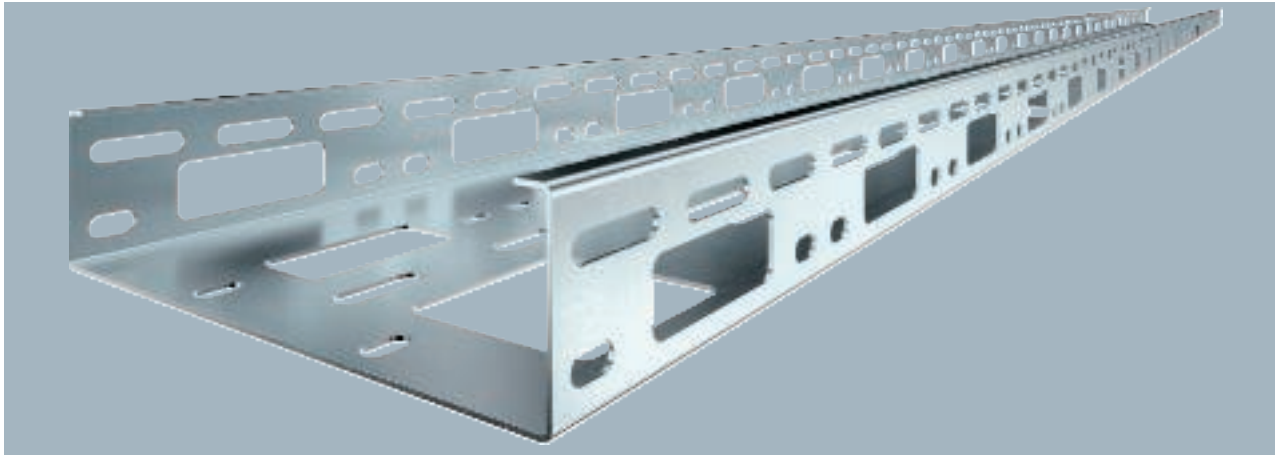
Load diagram, AZ small duct

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



St FS FT

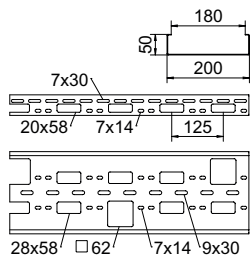
AZ small duct 200



AZ channel with a side height of 50 mm.

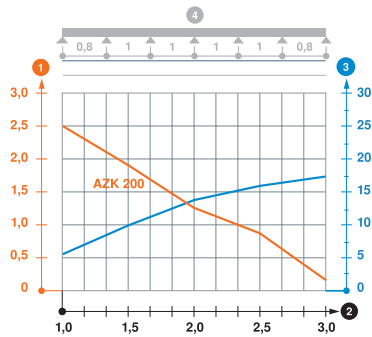
| Type | Pack | Weight | Item no. |
|------------|------|----------|----------|
| | m | kg/100 m | |
| AZK 200 FS | 3 | 280.340 | 6075345 |
| AZK 200 FT | 3 | 296.000 | 6075350 |

Dimensions



| Type | Length | Width | Side height | Metal thickness |
|------------|--------|-------|-------------|-----------------|
| | mm | mm | mm | mm |
| AZK 200 FS | 3000 | 200 | 50 | 1.50 |

Load



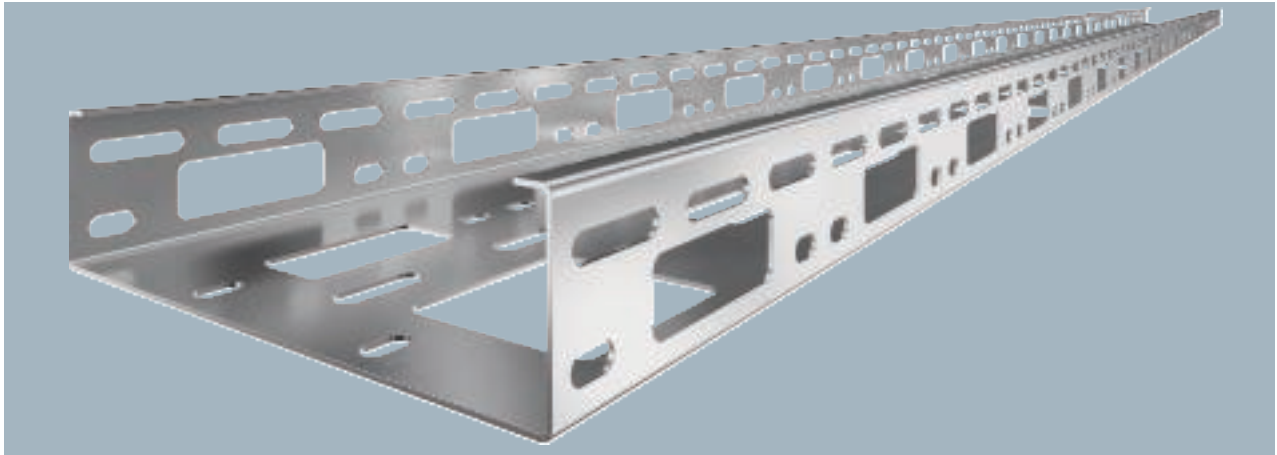
| | 1.0 m | 1.5 m | 2.0 m | 2.5 m | 3.0 m |
|------------|-------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/m | kN/m | kN/m |
| AZK 200 FS | 2.5 | 1.9 | 1.3 | 0.8 | 0.3 |

Load diagram, AZ small duct

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

AZ small duct 200

VA 2B

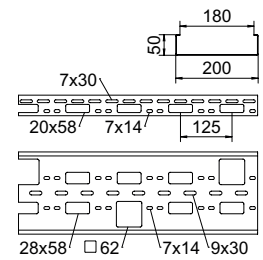


| Type | Pack | Weight | Item no. |
|-------------------|----------|----------------|----------------|
| | m | kg/100 m | |
| AZK 200 A2 | 3 | 280.340 | 6075355 |

AZ channel with a side height of 50 mm.

| Type | Length | Width | Side height | Metal thickness |
|-------------------|-------------|------------|-------------|-----------------|
| | mm | mm | mm | mm |
| AZK 200 A2 | 3000 | 200 | 50 | 1.50 |

Dimensions

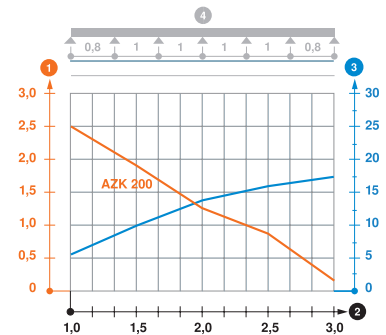


| | 1.0 m | 1.5 m | 2.0 m | 2.5 m | 3.0 m |
|-------------------|------------|------------|------------|------------|------------|
| | kN/m | kN/m | kN/m | kN/m | kN/m |
| AZK 200 A2 | 2.5 | 1.9 | 1.3 | 0.8 | 0.3 |

Load

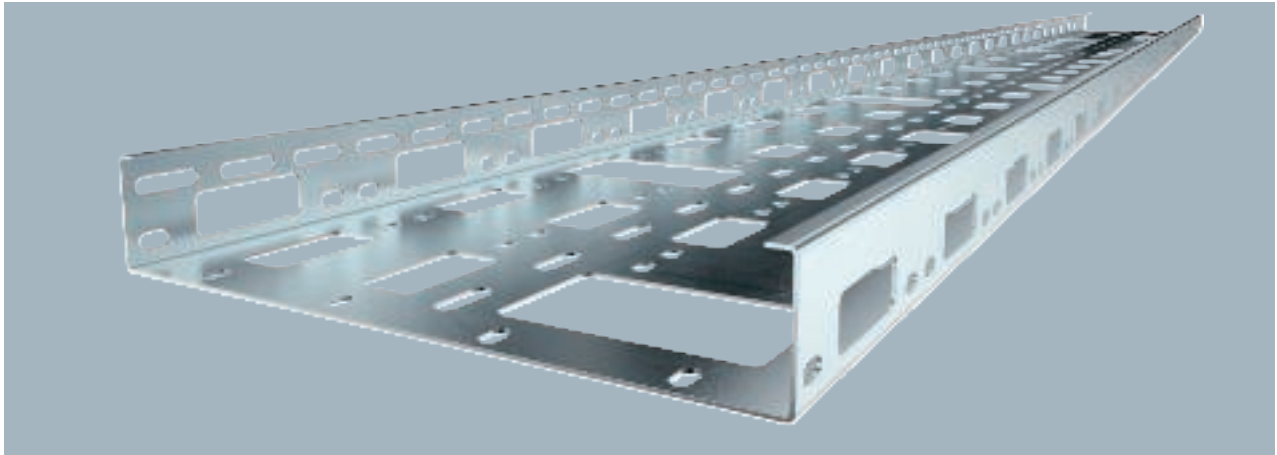
Load diagram, AZ small duct

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



St FS FT

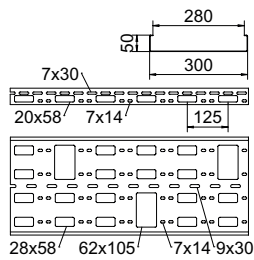
AZ small duct 300



AZ channel with a side height of 50 mm.

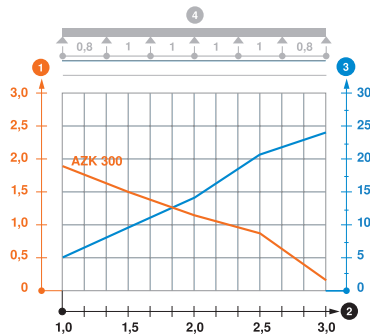
| Type | Pack m | Weight kg/100 m | Item no. |
|------------|--------|-----------------|----------|
| AZK 300 FS | 3 | 359.340 | 6075370 |
| AZK 300 FT | 3 | 381.000 | 6075375 |

Dimensions



| Type | Length mm | Width mm | Side height mm | Metal thickness mm |
|------------|-----------|----------|----------------|--------------------|
| AZK 300 FS | 3000 | 300 | 50 | 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 |
| AZK 300 FS | 1.9 | 1.5 | 1.2 | 0.8 | 0.3 |

Load diagram, AZ small duct

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





Luminaire support channel LTS

Luminaire support channel with special perforation in the base and side rail, for installing luminaires and running cables, with upwardly bevelled side rail for reinforcement and edge protection.

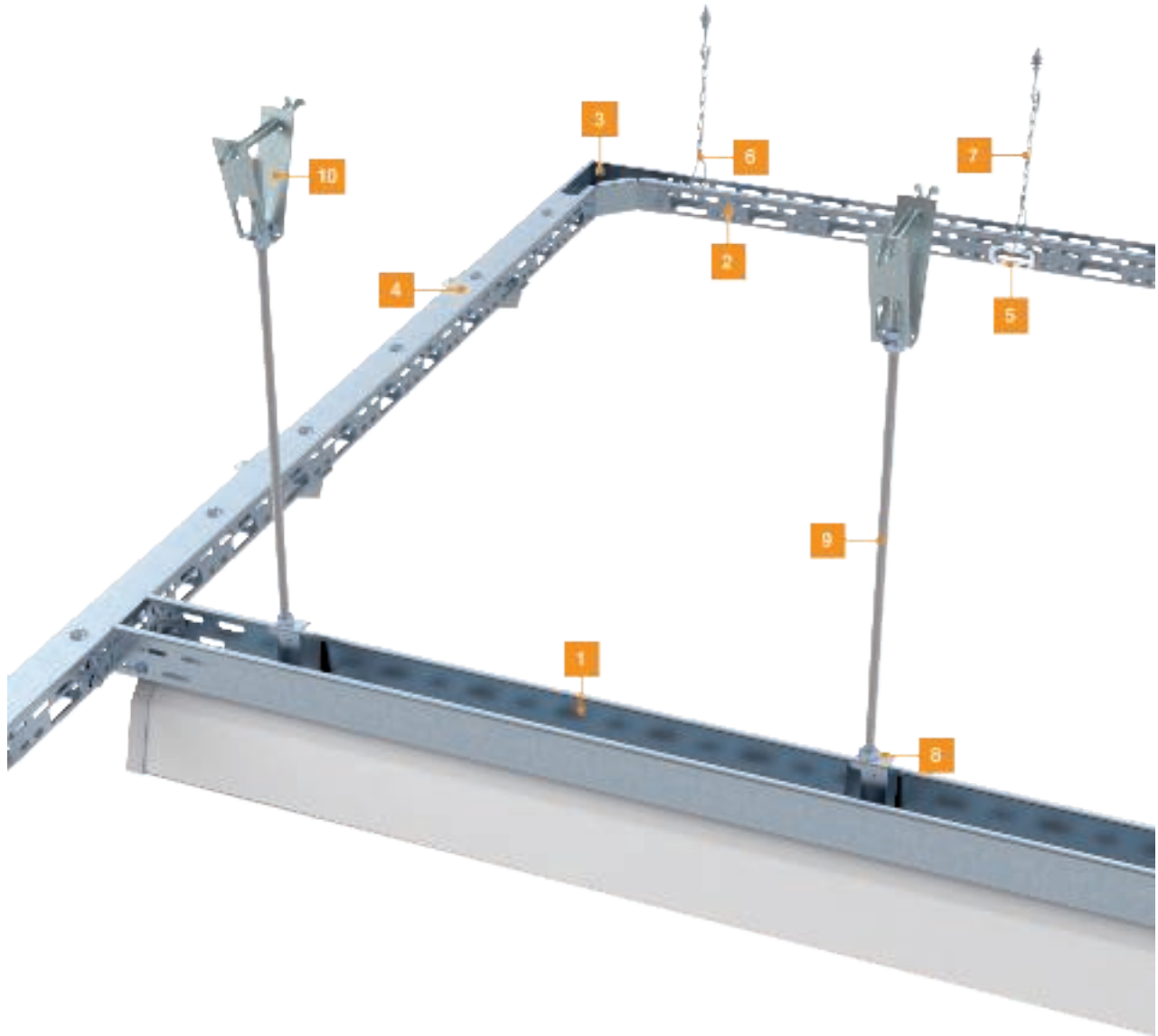
Width 50 mm

FS FT

Width 100 mm

Luminaire support channels and trays

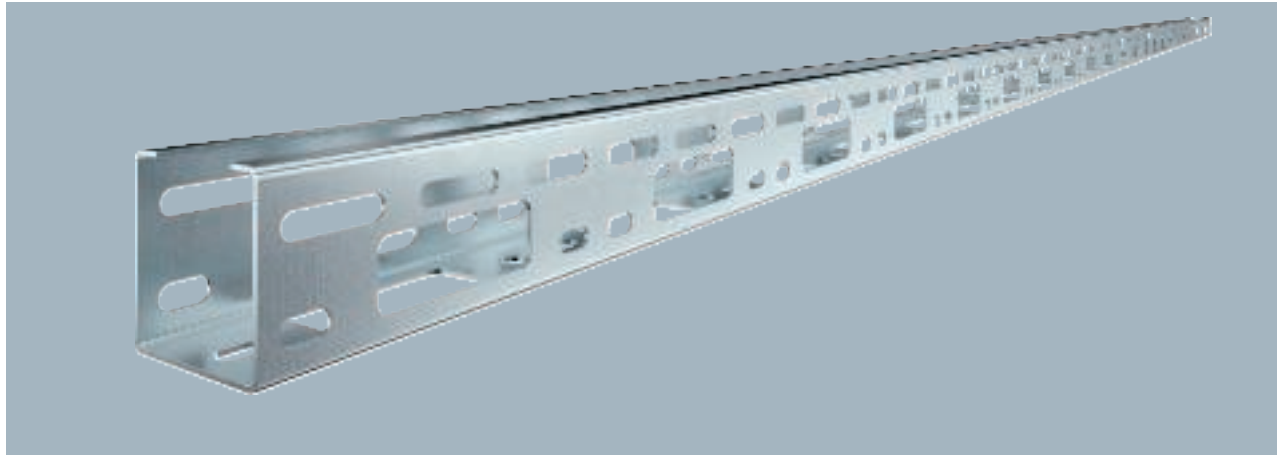
Installation principle



| | | |
|----|---------------------------|--------|
| 1 | Luminaire support tray | LTR |
| 2 | Luminaire support channel | LTS |
| 3 | 90° bend | |
| 4 | Cover with turn buckle | |
| 5 | Edge protection ring | KSR |
| 6 | Suspension bracket | AHB 50 |
| 7 | Suspension chain | K-C30 |
| 8 | Centre suspension | MAH |
| 9 | Threaded rod | TR |
| 10 | Trapezoidal fastening | TPB |



Luminaire support channel 50

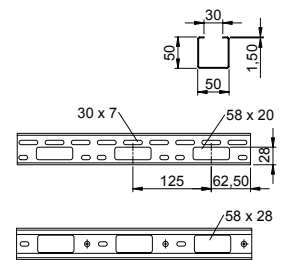


| Type | Pack | Weight | Item no. |
|-----------|------|----------|----------|
| | m | kg/100 m | |
| LTS 50 FS | 6 | 135.700 | 6075000 |

Perforated luminaire support channel for cable routing and luminaire mounting.

| Type | Length | Width | Usable cross-section | Metal thickness |
|-----------|--------|-------|----------------------|-----------------|
| | mm | mm | cm ² | mm |
| LTS 50 FS | 6000 | 50 | 22 | 1.50 |

Dimensions

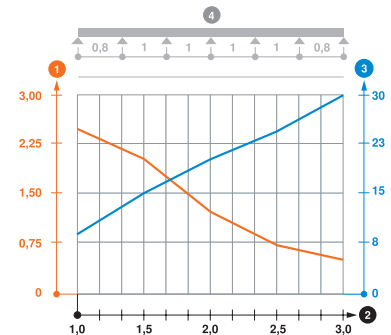


| Type | 1.0 m | 1.5 m | 2.0 m | 2.5 m | 3.0 m |
|-----------|-------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/m | kN/m | kN/m |
| LTS 50 FS | 2.5 | 2 | 1.2 | 0.85 | 0.5 |

Load

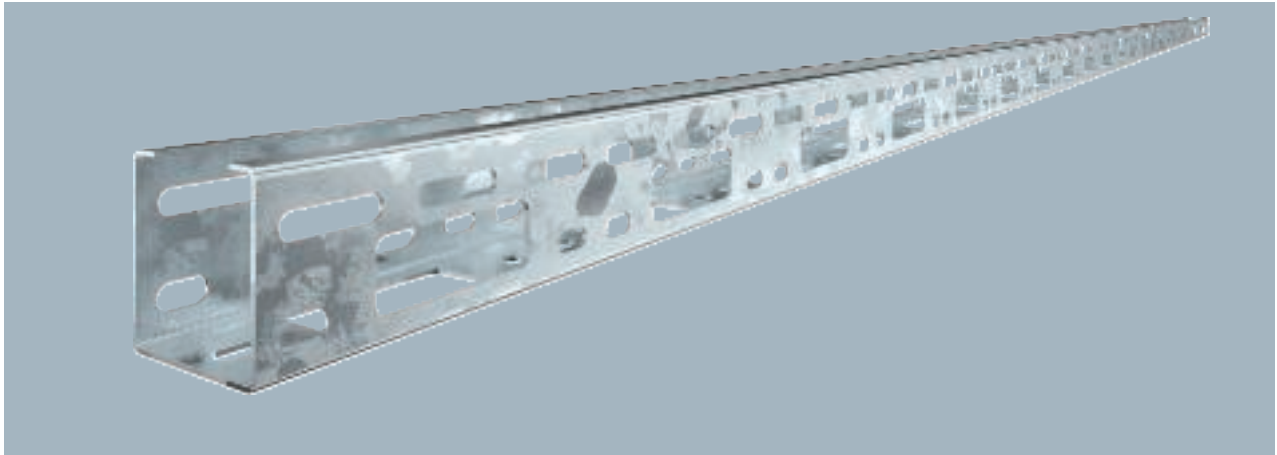
Load diagram, luminaire support channel, type LTS

- 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 FT

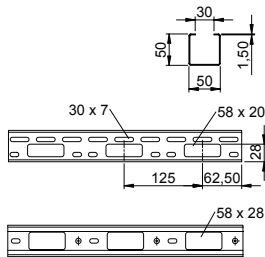
Luminaire support channel 50



Perforated luminaire support channel for cable routing and luminaire mounting.

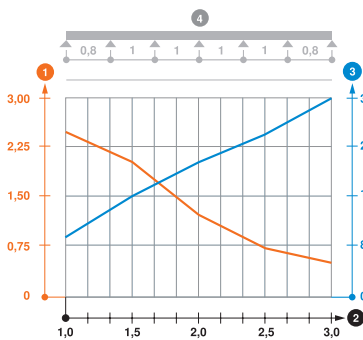
| Type | Pack m | Weight kg/100 m | Item no. |
|-----------|--------|-----------------|----------|
| LTS 50 FT | 6 | 149.500 | 6075005 |

Dimensions



| Type | Length mm | Width mm | Usable cross-section cm ² | Metal thickness mm |
|-----------|-----------|----------|--------------------------------------|--------------------|
| LTS 50 FT | 6000 | 50 | 22 | 1.50 |

Load

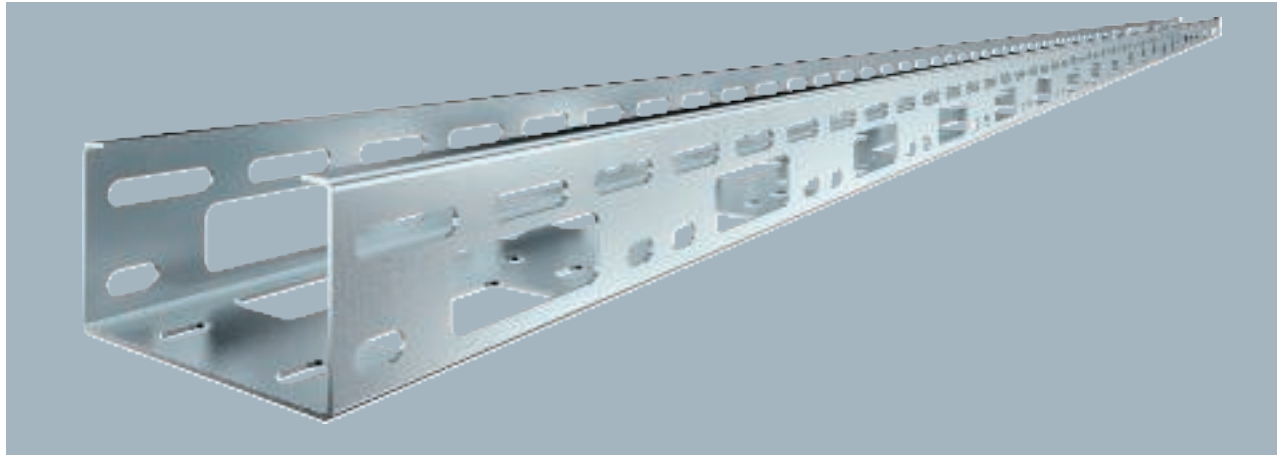


| Type | 1.0 m kN/m | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|-----------|------------|------------|------------|------------|------------|
| LTS 50 FT | 2.5 | 2 | 1.2 | 0.85 | 0.5 |

- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at 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 100

St FS

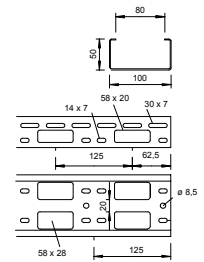


| Type | Pack | Weight | Item no. |
|------------|------|----------|----------|
| | m | kg/100 m | |
| LTS 100 FS | 6 | 177.000 | 6075024 |

Perforated luminaire support channel for cable routing and luminaire mounting.

| Type | Length | Width | Usable cross-section | Metal thickness |
|------------|--------|-------|----------------------|-----------------|
| | mm | mm | cm ² | mm |
| LTS 100 FS | 6000 | 100 | 46 | 1.50 |

Dimensions

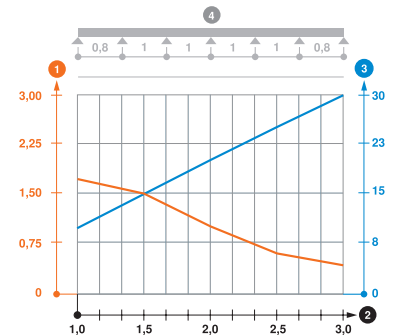


| | 1.0 m | 1.5 m | 2.0 m | 2.5 m | 3.0 m |
|------------|-------|-------|-------|-------|-------|
| | kN/m | kN/m | kN/m | kN/m | kN/m |
| LTS 100 FS | 1.7 | 1.5 | 1 | 0.6 | 0.4 |

Load

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 tray LTR

Luminaire support tray with special perforation in the base, unperforated side rail, connector perforation in side rail. For mounting luminaires and running cables, with upwardly bevelled side rail for reinforcement and edge protection.

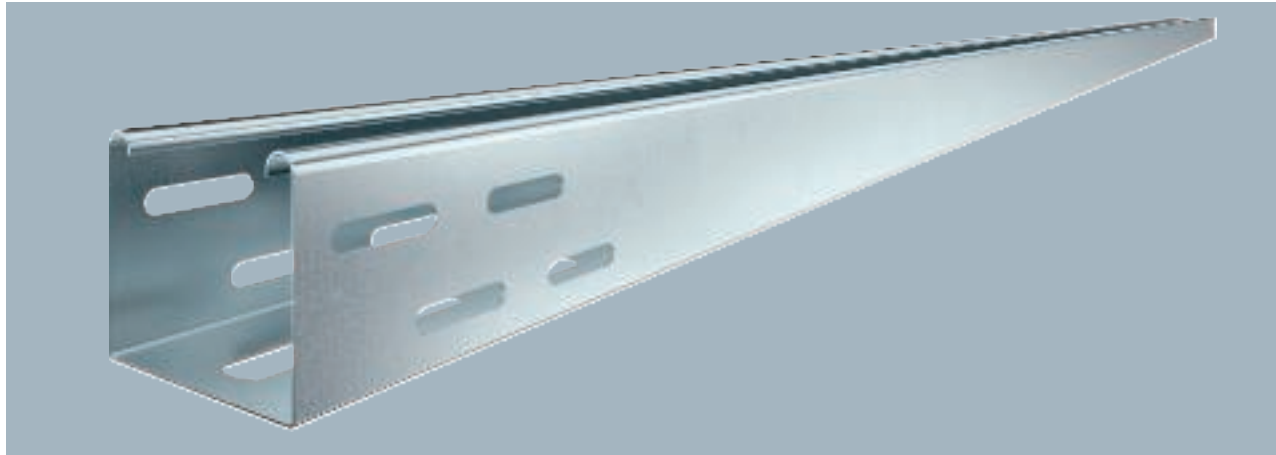
Side height 60 mm

Width 75 mm

FS



Luminaire support tray

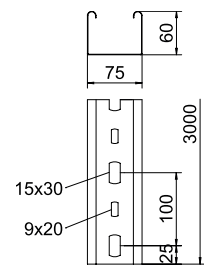


| Type | Width mm | Metal thick- ness mm | Pack m | Weight kg/100 m | Item no. |
|-------------|-------------|-------------------------------|-----------|--------------------|----------|
| LTR 3000 FS | 75 | 0.75 | 3 | 125.700 | 6055810 |
| LTR 6000 FS | 75 | 0.75 | 6 | 126.020 | 6055812 |

The white version 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 | Metal thick- ness mm |
|-------------|--------------|-------------|--|-------------------------------|
| LTR 3000 FS | 3000 | 75 | 42 | 0.75 |
| LTR 6000 FS | 6000 | 75 | 42 | 0.75 |

Dimensions

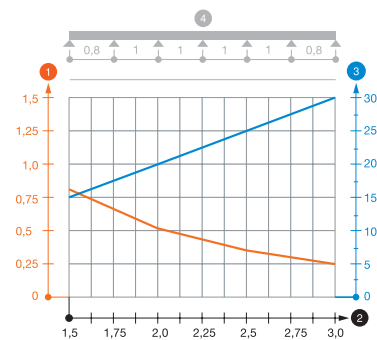


| | 1.5 m kN/m | 2.0 m kN/m | 2.5 m kN/m | 3.0 m kN/m |
|-------------|---------------|---------------|---------------|---------------|
| LTR 3000 FS | 0.8 | 0.55 | 0.35 | 0.25 |
| LTR 6000 FS | 0.8 | 0.55 | 0.35 | 0.25 |

Load diagram, luminaire support tray, type LTR

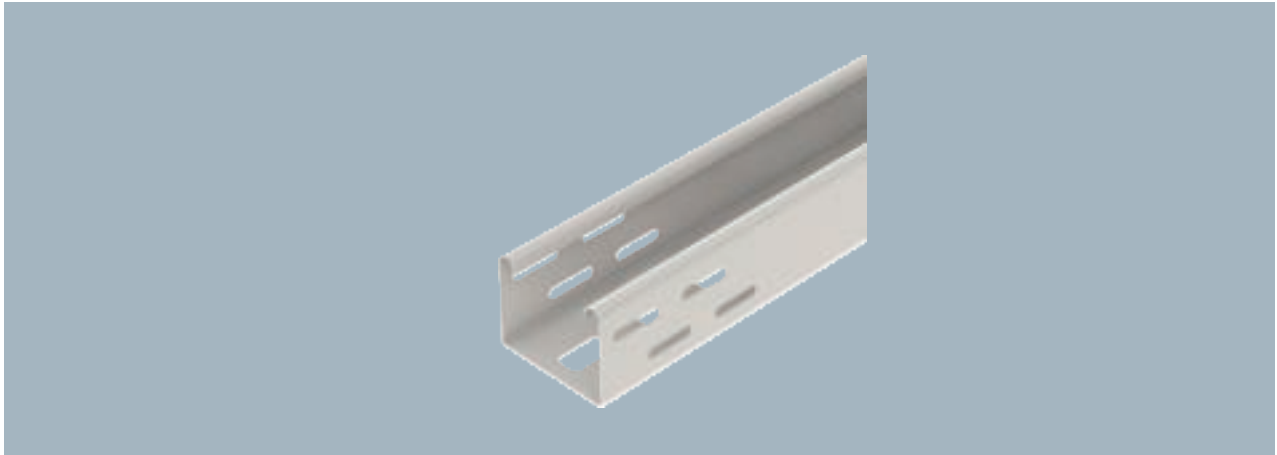
- 1 Permitted cable tray/ladder load in kN/m without man load
- 2 Support width in m
- 3 Rail bend in mm at permitted kN/m
- 4 Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width

Load



St

Luminaire support tray, pure white

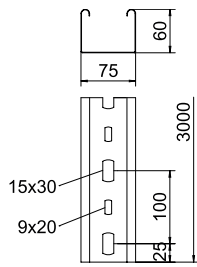


The luminaire support tray's surface is strip-galvanised and is also powder-coated in white (RAL 9010).

Luminaire support tray with perforated base for fastening luminaires and cable penetration.

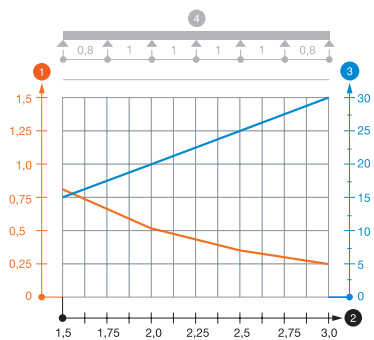
| Type | Width mm | Metal thick- ness mm | Colour | Pack m | Weight kg/100 m | Item no. |
|-----------------|-------------|-------------------------------|------------|-----------|--------------------|----------|
| LTR 3000 FSK RW | 75 | 0.75 | Pure white | 6 | 129.540 | 6055820 |
| LTR 6000 FSK RW | 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 |

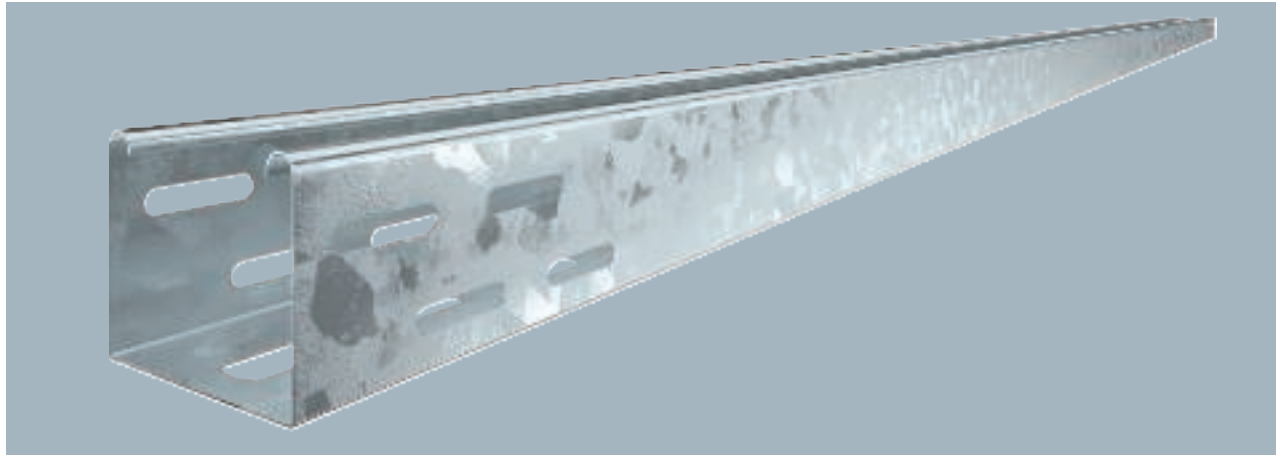
Load diagram, luminaire support tray, type LTR

- 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

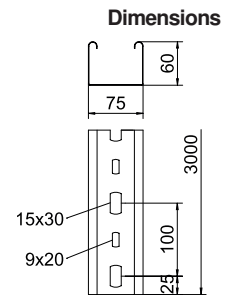
St FT



| 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.

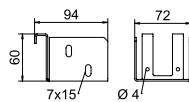
| Type | Length mm | Width mm | Usable cross- section cm ² |
|-------------|--------------|-------------|--|
| LTR 3000 FT | 3000 | 75 | 42 |



Fittings

Mounting/branch piece

St FS

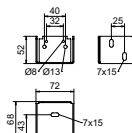


| Type | Dimen- sion mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|----------------------|---------------|----------------------|----------|
| RAA 607.5 LTR FS | 60x75 | 10 | 24.200 | 6050354 |

Single-part version.
Add-on tee for horizontal use on luminaire trays of 60 mm side height.

WL wall bearing for luminaire support tray

St FS



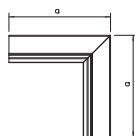
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------------|---------------|----------------------|----------|
| WL 607.5 LTR FS | 10 | 21.000 | 6050345 |

Wall bearing for mounting of luminaire support trays on the wall.



Internal corner, for cable trunking type LKM 40040

St FS FSK

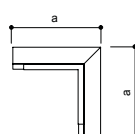


| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|---------|------------|-------------------|----------|
| LKM I40040FS | – | 160 | 1 | 28.000 | 6247652 |
| LKM I40040RW | Pure white | 160 | 1 | 28.000 | 6249167 |

Internal corner for changing the direction of the LKM ducts.

Internal corner, for cable trunking type LKM 40060

St FS FSK

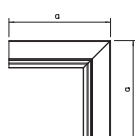


| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|---------|------------|-------------------|----------|
| LKM I40060FS | – | 160 | 1 | 31.400 | 6247660 |
| LKM I40060RW | Pure white | 160 | 1 | 31.400 | 6249175 |

Internal corner for changing the direction of LKM ducts.

Internal corner, for cable trunking type LKM 60060

St FS FSK

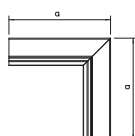


| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|---------|------------|-------------------|----------|
| LKM I60060FS | – | 160 | 1 | 31.900 | 6248128 |
| LKM I60060RW | Pure white | 160 | 1 | 31.900 | 6249612 |

Internal corner for changing the direction of the LKM trunking.

Internal corner, for cable duct type LKM 60100

St FS FSK

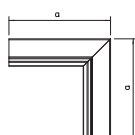


| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|---------|------------|-------------------|----------|
| LKM I60100FS | – | 160 | 1 | 39.400 | 6248144 |
| LKM I60100RW | Pure white | 160 | 1 | 39.400 | 6249639 |

Internal corner for changing the direction of the LKM trunking.

Internal corner, for cable trunking type LKM 60150

St FS FSK



| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|---------|------------|-------------------|----------|
| LKM I60150FS | – | 160 | 1 | 48.400 | 6248152 |
| LKM I60150RW | Pure white | 160 | 1 | 48.400 | 6249647 |

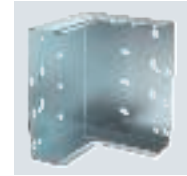
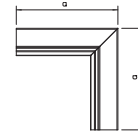
Internal corner for changing the direction of the LKM trunking.

St FS FSK

Internal corner, for cable trunking type LKM 60200

| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------------|---------------|----------------------|----------|
| LKM I60200FS | – | 160 | 1 | 57.500 | 6248160 |
| LKM I60200RW | Pure white | 160 | 1 | 57.500 | 6249655 |

Internal corner for changing the direction of the LKM trunking.

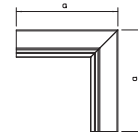


St FS FSK

Internal corner, for cable trunking type LKM 80080

| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------------|---------------|----------------------|----------|
| LKM I80080FS | – | 160 | 1 | 38.700 | 6248336 |
| LKM I80080RW | Pure white | 160 | 1 | 38.700 | 6248436 |

Internal corner for changing the direction of LKM trunking.



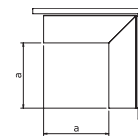
External corner, LHM cable routing duct

St FS FSK

External corner, for cable trunking ducts type LKM 40040

| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------------|---------------|----------------------|----------|
| LKM A40040FS | – | 120 | 1 | 38.600 | 6247563 |
| LKM A40040RW | Pure white | 120 | 1 | 38.600 | 6249086 |

External corner including cover for changing the direction of the LKM trunking.

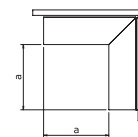


St FS FSK

External corner, for cable routing duct type LKM 40060

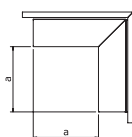
| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------------|---------------|----------------------|----------|
| LKM A40060FS | – | 120 | 1 | 46.300 | 6247571 |
| LKM A40060RW | Pure white | 120 | 1 | 46.300 | 6249094 |

External corner including cover for changing the direction of the LKM ducts.



External corner, for cable trunking type LKM 60060

St FS FSK

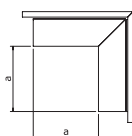


| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|---------|------------|-------------------|----------|
| LKM A60060FS | – | 120 | 1 | 55.800 | 6248047 |
| LKM A60060RW | Pure white | 120 | 1 | 55.800 | 6249558 |

External corner including cover for changing the direction of the LKM ducts.

External corner, for cable duct type LKM 60100

St FS FSK

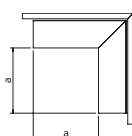


| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|---------|------------|-------------------|----------|
| LKM A60100FS | – | 120 | 1 | 73.100 | 6248063 |
| LKM A60100RW | Pure white | 120 | 1 | 73.100 | 6249574 |

External corner including cover for changing the direction of the LKM ducts.

External corner, for cable trunking type LKM 60150

St FS FSK

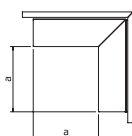


| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|---------|------------|-------------------|----------|
| LKM A60150FS | – | 120 | 1 | 91.300 | 6248071 |
| LKM A60150RW | Pure white | 120 | 1 | 91.300 | 6249582 |

External corner including cover for changing the direction of the LKM ducts.

External corner, for cable trunking type LKM 60200

St FS FSK

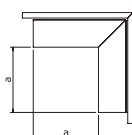


| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|---------|------------|-------------------|----------|
| LKM A60200FS | – | 120 | 1 | 114.000 | 6248098 |
| LKM A60200RW | Pure white | 120 | 1 | 114.000 | 6249590 |

External corner including cover for changing the direction of the LKM ducts.

External corner, for cable trunking type LKM 80080

St FS FSK



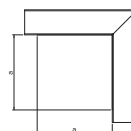
| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|---------|------------|-------------------|----------|
| LKM A80080FS | – | 120 | 1 | 75.300 | 6248332 |
| LKM A80080RW | Pure white | 120 | 1 | 75.300 | 6248432 |

External corner including cover for changing the direction of the LKM ducts.

St FS FSK

Flat angle, for cable trunking type LKM 40040

| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------------|---------------|----------------------|----------|
| LKM F40040FS | – | 140 | 1 | 37.100 | 6247490 |
| LKM F40040RW | Pure white | 140 | 1 | 37.100 | 6248993 |

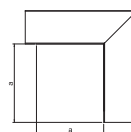


Flat angle including cover for changing the direction of the LKM ducts.

St FS FSK

Flat angle, for cable trunking type LKM 40060

| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------------|---------------|----------------------|----------|
| LKM F40060FS | – | 140 | 1 | 47.400 | 6247504 |
| LKM F40060RW | Pure white | 140 | 1 | 47.400 | 6249000 |

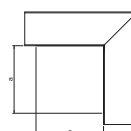


Flat angle including cover for changing the direction of the LKM ducts.

St FS FSK

Flat angle, for cable trunking type LKM 60060

| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------------|---------------|----------------------|----------|
| LKM F60060FS | – | 140 | 1 | 54.700 | 6247989 |
| LKM F60060RW | Pure white | 140 | 1 | 54.700 | 6249485 |

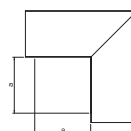


Flat angle including cover for changing the direction of the LKM ducts.

St FS FSK

Flat angle, for cable duct type LKM 60100

| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------------|---------------|----------------------|----------|
| LKM F60100FS | – | 140 | 1 | 63.400 | 6248004 |
| LKM F60100RW | Pure white | 140 | 1 | 63.400 | 6249507 |

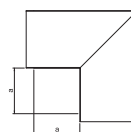


Flat angle including cover for changing the direction of the LKM ducts.

St FS FSK

Flat angle, for cable trunking type LKM 60150

| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------------|---------------|----------------------|----------|
| LKM F60150FS | – | 140 | 1 | 113.500 | 6248012 |
| LKM F60150RW | Pure white | 140 | 1 | 113.500 | 6249515 |



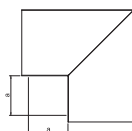
Flat angle including cover for changing the direction of the LKM ducts.



Flat angle, LKM cable routing duct

Flat angle, for cable trunking type LKM 60200

St FS FSK

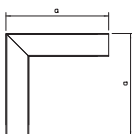


| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------------|---------------|----------------------|----------|
| LKM F60200FS | — | 140 | 1 | 154.400 | 6248020 |
| LKM F60200RW | Pure white | 140 | 1 | 154.400 | 6249523 |

Flat angle including cover for changing the direction of the LKM ducts.

Flat angle, for cable trunking type LKM 80080

St FS FSK



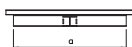
| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------------|---------------|----------------------|----------|
| LKM F80080FS | — | 140 | 1 | 80.000 | 6248328 |
| LKM F80080RW | Pure white | 140 | 1 | 80.000 | 6248428 |

Flat angle including cover for changing the direction of the LKM ducts.

T pieces, LKM cable routing duct

T piece, for cable trunking type LKM 40040

St FS FSK



| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------------|---------------|----------------------|----------|
| LKM T40040FS | — | 300 | 1 | 39.700 | 6247725 |
| LKM T40040RW | Pure white | 300 | 1 | 39.700 | 6249256 |

T piece including cover for changing the direction of the LKM ducts.

T piece, for cable trunking type LKM 40060

St FS FSK

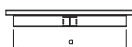


| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------------|---------------|----------------------|----------|
| LKM T40060FS | — | 300 | 1 | 46.800 | 6247733 |
| LKM T40060RW | Pure white | 300 | 1 | 46.800 | 6249264 |

T piece including cover for changing the direction of the LKM ducts.

T piece, for cable routing duct type LKM 60060

St FS FSK



| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------------|---------------|----------------------|----------|
| LKM T60060FS | — | 300 | 1 | 54.200 | 6248187 |
| LKM T60060RW | Pure white | 300 | 1 | 54.200 | 6249671 |

T piece including cover for changing the direction of the LKM trunking.

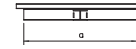


T pieces, LKM cable routing duct

St FS FSK

T piece for cable routing duct type LKM 60100

| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------------|---------------|----------------------|----------|
| LKM T60100FS | – | 300 | 1 | 69.200 | 6248209 |
| LKM T60100RW | Pure white | 300 | 1 | 69.200 | 6249701 |

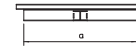


T piece including cover for changing the direction of the LKM ducts.

St FS FSK

T piece, for cable trunking type LKM 60150

| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------------|---------------|----------------------|----------|
| LKM T60150FS | – | 300 | 1 | 87.600 | 6248217 |
| LKM T60150RW | Pure white | 300 | 1 | 87.600 | 6249728 |

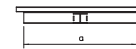


T piece including cover for changing the direction of the LKM ducts.

St FS FSK

T piece, for cable trunking type LKM 60200

| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------------|---------------|----------------------|----------|
| LKM T60200FS | – | 300 | 1 | 106.000 | 6248225 |
| LKM T60200RW | Pure white | 300 | 1 | 106.000 | 6249736 |



T piece including cover for changing the direction of the LKM trunking.

St FS FSK

T piece, for cable trunking type LKM 80080

| Type | Colour | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------------|---------------|----------------------|----------|
| LKM T80080FS | – | 300 | 1 | 67.200 | 6248340 |
| LKM T80080RW | Pure white | 300 | 1 | 67.200 | 6248450 |



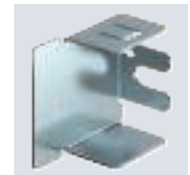
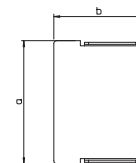
T piece including cover for changing the direction of the LKM ducts.

End pieces, LKM cable routing duct

St FS FSK

End piece, for cable trunking type LKM 40040

| Type | Colour | Dim. mm | Dim. b mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------------|-----------------|---------------|----------------------|----------|
| LKM E40040FS | – | 40 | 44 | 10 | 2.500 | 6247881 |
| LKM E40040RW | Pure white | 40 | 44 | 10 | 2.500 | 6249418 |

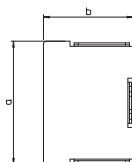


End piece for closing the LKM ducts.



End piece, for cable trunking type LKM 40060

St FS FSK

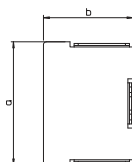


| Type | Colour | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------|----|------------|-------------------|----------|
| | | mm | mm | | | |
| LKM E40060FS | — | 60 | 44 | 10 | 3.000 | 6247903 |
| LKM E40060RW | Pure white | 60 | 44 | 10 | 3.000 | 6249426 |

End piece for closing the LKM ducts.

End piece, for cable trunking type LKM 60060

St FS FSK

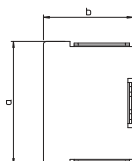


| Type | Colour | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------|----|------------|-------------------|----------|
| | | mm | mm | | | |
| LKM E60060FS | — | 60 | 64 | 10 | 4.500 | 6248284 |
| LKM E60060RW | Pure white | 60 | 64 | 10 | 4.500 | 6249795 |

End piece for closing the LKM ducts.

End piece, for cable duct type LKM 60100

St FS FSK

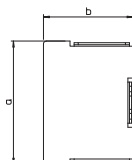
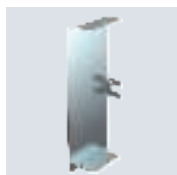


| Type | Colour | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------|----|------------|-------------------|----------|
| | | mm | mm | | | |
| LKM E60100FS | — | 100 | 64 | 10 | 6.200 | 6248306 |
| LKM E60100RW | Pure white | 100 | 64 | 10 | 6.500 | 6249817 |

End piece for closing the LKM ducts.

End piece, for cable trunking type LKM 60150

St FS FSK

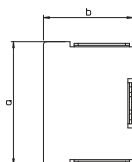


| Type | Colour | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------|----|------------|-------------------|----------|
| | | mm | mm | | | |
| LKM E60150FS | — | 150 | 64 | 10 | 8.400 | 6248314 |
| LKM E60150RW | Pure white | 150 | 64 | 10 | 9.000 | 6249825 |

End piece for closing the LKM ducts.

End piece, for cable trunking type LKM 60200

St FS FSK



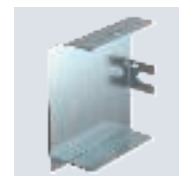
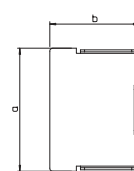
| Type | Colour | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|------|----|------------|-------------------|----------|
| | | mm | mm | | | |
| LKM E60200FS | — | 200 | 64 | 10 | 10.800 | 6248322 |
| LKM E60200RW | Pure white | 200 | 64 | 10 | 11.500 | 6249833 |

End piece for closing the LKM ducts.

St FS FSK

End piece, for cable trunking type LKM 80080

| Type | Colour | Dim. mm | Dim. b mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|---------|-----------|------------|-------------------|----------|
| LKM E80080FS | – | 80 | 80 | 1 | 7.000 | 6248344 |
| LKM E80080RW | Pure white | 80 | 80 | 1 | 7.000 | 6248454 |



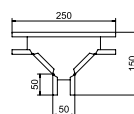
End piece for closing the LKM ducts.

T piece, LTS luminaire support rail

St DD

LTS T T-piece

| Type | Side height mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|----------------|----------|------------|-------------------|----------|
| LTS T DD | 50 | 50 | 1 | 47.800 | 6074912 |

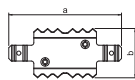


Horizontal tee, for AZ small duct AZK 050 and luminaire support channel LTS 50.



Joint connector LKM SV20

VA 2B

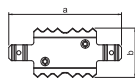


| Type | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|---------|------|------------|-------------------|----------|
| | Dim. mm | b mm | | | |
| LKM SV20 | 45 | 20 | 10 | 0.190 | 6247431 |

Joint connector to connect the bases. This creates the equipotential bonding between the trunking bases.

Joint connector LKM SV30

VA 2B

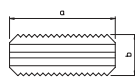


| Type | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|---------|------|------------|-------------------|----------|
| | Dim. mm | b mm | | | |
| LKM SV30 | 54 | 30 | 10 | 0.400 | 6247434 |

Joint connector to connect the bases. This creates the equipotential bonding between the duct bases.

Joint connector LKM SV40

VA 2B

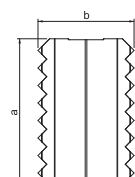


| Type | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|---------|------|------------|-------------------|----------|
| | Dim. mm | b mm | | | |
| LKM SV40 | 76 | 30 | 10 | 1.000 | 6247458 |

Joint connector to connect the bases. This creates the equipotential bonding between the duct bases.

Joint connector LKM SV60

VA 2B

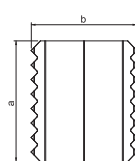


| Type | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|---------|------|------------|-------------------|----------|
| | Dim. mm | b mm | | | |
| LKM SV60 | 75 | 49 | 10 | 1.600 | 6247466 |

Joint connector to connect the bases. This creates the equipotential bonding between the duct bases.

Joint connector LKM SV80

VA 2B



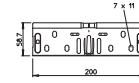
| Type | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|---------|------|------------|-------------------|----------|
| | Dim. mm | b mm | | | |
| LKM SV80 | 75 | 66 | 10 | 1.300 | 6247472 |

Joint connector to connect the bases. This creates the equipotential bonding between the duct bases.

St FS DD

Straight connector set 60

| Type | Side height | Width | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|-------------|-------|------------|-------------------|----------|
| | mm | mm | | | |
| RV 607 FS | 60 | 75 | 10 | 18.800 | 6068150 |
| RV 607 DD | 60 | 75 | 1 | 18.800 | 6068152 |



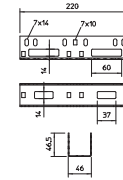
Quick connector set for straight, screwless connections of cable trays and fittings with a side height of 60 mm. The continuous earthing connection is guaranteed without a screw connection.

AZ straight connector

St FS DD

Straight connector 50

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------------|-------------------|----------|
| | | | |
| VF AZK 50 DD | 25 | 27.100 | 6066623 |

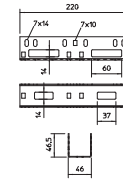


Straight connector for connection of luminaire support channels and AZ channels. An adjustable connector can be created using two straight and angle connectors.

VA 2B

Straight connector 50

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

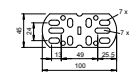


Straight connector for connection of luminaire support channels and AZ channels. An adjustable connector can be created using two straight and angle connectors.

St FT

Straight and angle connector 50

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

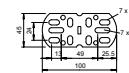


Straight and angle connector for connection of AZ channels. An adjustable connector can be created using two straight and angle connectors. Scope of delivery including bolts with combination nuts.

VA VA 2B

Straight and angle connector 50

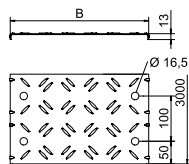
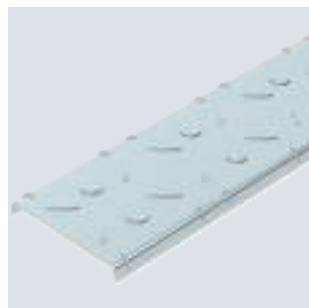
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------|-------------------|----------|
| | | | |
| VF AZK A4 | 10 | 7.746 | 6066571 |



Straight and angle connector for connection of AZ channels. An adjustable connector can be created using two straight and angle connectors. Scope of delivery includes bolts and nuts.

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.

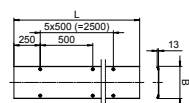
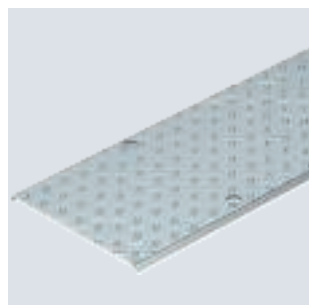
When the cover is used under wind, draught or pressure impacts, additional security measures are required.

The covers are tested according to DIN51130 and possess anti-slip class R11 and displacement space class V10.

Cover fastenings are not part of the scope of delivery and can be ordered separately.

Cover with chequer plate and turn buckle

Alu/ St



| 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 |

Cable tray cover for the walkable BKRS cable tray system. The basic cover is strip galvanised in a material thickness of 2 mm with additional aluminium chequer riveted on in a thickness of 4 mm, sturdy and non-slip. Turn buckle fastening with a turn buckle distance of 500 mm.

The covers are tested according to DIN 51130 and possess anti-slip class R10 and displacement space class V8.

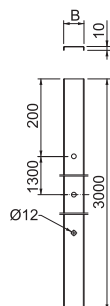
The turn buckles for cover mounting are pre-installed.

When the cover is used under wind, draught or pressure impacts, additional security measures are required.

Lid, 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 |

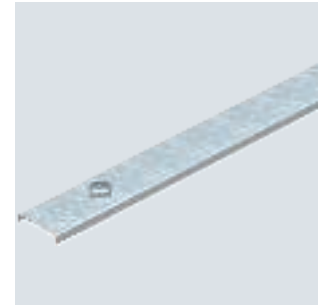
Perforated cover, for threaded rod mounting, for AZ small duct. To fasten the cover, the cover clamp DKU is required.

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

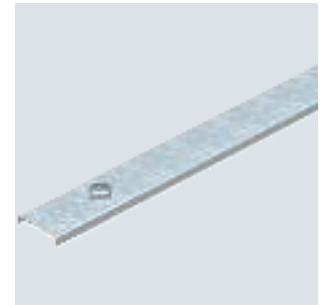


St FT DD

| 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



VA 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 with turn buckle

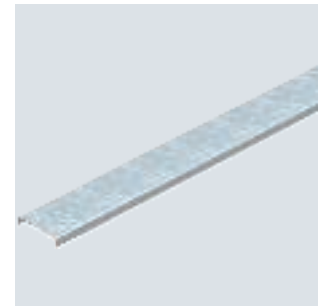


St DD

| 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 |

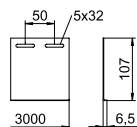
Cover without turn buckles for AZ small duct.

Cover



Protective panel 108

St FS

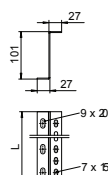


| Type | Length mm | Height mm | Thickness mm | Pack m | Weight kg/100 m | Item no. |
|-----------|--------------|--------------|-----------------|-----------|--------------------|----------|
| SB BKS FS | 3000 | 108 | 1 | 3 | 91.670 | 6049252 |

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 profile 100

St FS

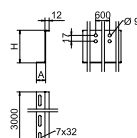


| Type | Dim. L mm | Metal thick- ness mm | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|-----------------|-------------------------------|---------------|----------------------|----------|
| STP Z 1010 FS | 100 | 2.00 | 1 | 22.500 | 6044581 |
| STP Z 1020 FS | 200 | 2.00 | 1 | 44.800 | 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 | 134.200 | 6044591 |
| STP Z 10300 FS | 3000 | 2.00 | 3 | 223.400 | 6044596 |

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.

Barrier strip, Z-shaped 100

St FS



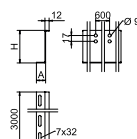
| Type | Dim. H mm | Metal thick- ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|-----------------|-----------------|-------------------------------|--------------|-----------|--------------------|----------|
| TSG100Z BKRS FS | 100 | 2.00 | 3000 | 3 | 187.667 | 6062390 |

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.

Barrier strip, Z-shaped 110

St FS



| Type | Dim. H mm | Metal thick- ness mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|-----------------|-----------------|-------------------------------|--------------|-----------|--------------------|----------|
| TSG110Z BKRS FS | 110 | 2.00 | 3000 | 3 | 211.500 | 6062391 |

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.

Anti-slip strip

GUM



| Type | Pack m | Weight kg/100 m | 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.

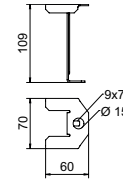


St FS

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.

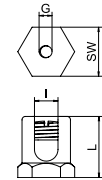


CuZn 37

Earthing terminal with fastening thread

| Type | Dim. L mm | Dim. I mm | Cross-section mm ² | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|-----------|-----------|-------------------------------|--------|------------|-------------------|----------|
| EKL 25 M6 | 22 | 8 | 50 | M6 | 50 | 3.100 | 6404006 |
| EKL 35 M6 | 26 | 10 | 70 | M6 | 50 | 4.800 | 6404014 |

Earthing terminal for fastening the equipotential bonding wire to the cable support system. Suitable for conductor cross sections of 4–50 mm².

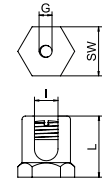


CuZn 37

Earthing terminal with fastening thread

| Type | 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.



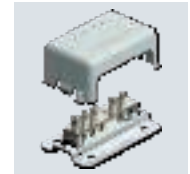
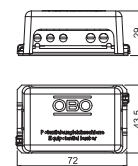
CuZn 37

Equipotential busbar for small systems

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|---------|------------|-------------------|----------|
| 1809 BG | 1 | 9,000 | 5015502 |

- Cover made of polystyrene, grey
- Sealable/labelable
- Base plate made of strip galvanised steel
- Contact strip and screws made of nickel-plated brass

Connection options:
 • 3 x multi-core cables to 6 mm²
 • 2 x multi-core cables to 16 mm²

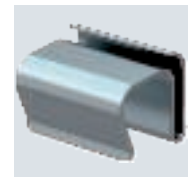


St G

Cover clamp

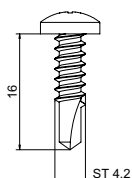
| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------|-------------------|----------|
| DK DBKR G | 30 | 0.794 | 6049280 |

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.



Drilling screw

St G



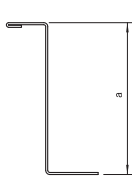
| Type | Dimension mm | Pack | Weight | Item no. |
|-----------|-----------------|-------|------------|----------|
| | | Piece | kg/100 pc. | |
| BS BKS KP | 4,2x16 | 100 | 0.180 | 6049250 |

Drilling screw to fasten components to the stand-offs of the walkable cable tray system. Corresponds to DIN 7504.

Accessories, LKM cable routing duct

Partition LKM/TWS55

St FS

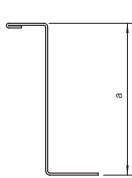


| Type | Length mm | Dim. mm | Pack | Weight | Item no. |
|-----------|--------------|------------|------|----------|----------|
| | | | m | kg/100 m | |
| LKM TWS55 | 2000 | 55 | 2 | 53.000 | 6249876 |

Partition to divide the LKM cable routing trunking, 60 mm duct height, for different voltage levels.

Partition LKM/TWS45

St FS

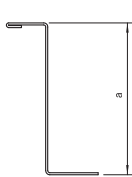
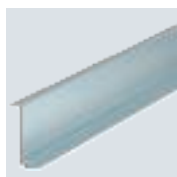


| Type | Length mm | Dim. mm | Pack | Weight | Item no. |
|-----------|--------------|------------|------|----------|----------|
| | | | m | kg/100 m | |
| LKM TWS45 | 2000 | 45 | 2 | 47.900 | 6249871 |

Partition to divide the trunking for different voltage levels.

Partition LKM/TWS75

St FS

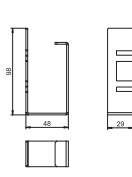


| Type | Length mm | Dim. mm | Pack | Weight | Item no. |
|-----------|--------------|------------|------|----------|----------|
| | | | m | kg/100 m | |
| LKM TWS75 | 2000 | 60 | 2 | 114.000 | 6249880 |

Partition to divide the LKM cable routing duct, 80 mm duct height, for different voltage levels.

Duct clamp, LKM, for maintenance of electrical function E30 - E90

St FS



| Type | Pack | Weight | Item no. |
|--------------|-------|------------|----------|
| | Piece | kg/100 pc. | |
| LKM KF 60100 | 10 | 9.800 | 6249881 |

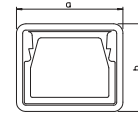
Duct clamp for the metal cable routing duct type LKM 60100FS, prevents the cables falling out during installation. The duct clamp is essential if the duct is used in cable systems with integrated maintenance of electrical function to DIN 4102, Part 12. Easy mounting through insertion into the loop perforation in the side wall.

PVC

Edge protection ring KSR 20020, for LKM cable trunking type 20020

| Type | Colour | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|--------|------|----|------------|-------------------|----------|
| | | mm | mm | | | |
| KSR20020 | Grey | 24 | 28 | 5 | 0.900 | 6249842 |

Edge protection ring for the open ends of LKM cable trunking.

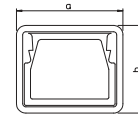


PVC

Edge protection ring KSR 20030, for LKM cable trunking type 20030

| Type | Colour | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|--------|------|----|------------|-------------------|----------|
| | | mm | mm | | | |
| KSR20030 | Grey | 34 | 28 | 5 | 1.100 | 6249844 |

Edge protection ring for the open ends of LKM cable trunking.

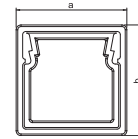


PVC

Edge protection ring KSR 30030, for LKM cable trunking 30030

| Type | Colour | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|--------|------|----|------------|-------------------|----------|
| | | mm | mm | | | |
| KSR30030 | Grey | 34 | 34 | 5 | 1.300 | 6249847 |

Edge protection ring for the open ends of LKM cable trunking.

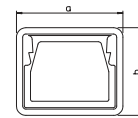


PVC

Edge protection ring KSR40040, for LKM cable trunking type 40040

| Type | Colour | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|--------|------|----|------------|-------------------|----------|
| | | mm | mm | | | |
| KSR40040 | Grey | 44 | 48 | 5 | 1.800 | 6249846 |

Edge protection ring for the open ends of LKM cable trunking.

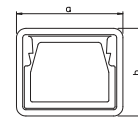


PVC

Edge protection ring KSR40060, for LKM cable trunking type 40060

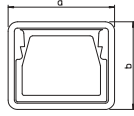
| Type | Colour | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|--------|------|----|------------|-------------------|----------|
| | | mm | mm | | | |
| KSR40060 | Grey | 64 | 48 | 5 | 2.300 | 6249848 |

Edge protection ring for the open ends of LKM cable trunking.



Edge protection ring KSR60060, for LKM cable trunking type 60060

PVC

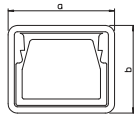


| Type | Colour | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|--------|---------|------|------------|-------------------|----------|
| | | Dim. mm | b mm | | | |
| KSR60060 | Grey | 64 | 68 | 5 | 2.400 | 6249850 |

Edge protection ring for the open ends of LKM cable duct.

Edge protection ring KSR60100, for LKM cable trunking type 60100

PVC

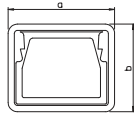


| Type | Colour | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|--------|---------|------|------------|-------------------|----------|
| | | Dim. mm | b mm | | | |
| KSR60100 | Grey | 104 | 68 | 5 | 3.400 | 6249852 |

Edge protection ring for the open ends of LKM cable trunking.

Edge protection ring KSR60150, for LKM cable trunking type 60150

PVC

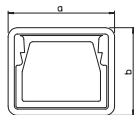
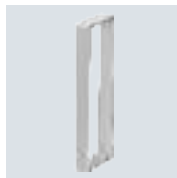


| Type | Colour | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|--------|---------|------|------------|-------------------|----------|
| | | Dim. mm | b mm | | | |
| KSR60150 | Grey | 154 | 68 | 5 | 4.400 | 6249854 |

Edge protection ring for the open ends of LKM cable trunking.

Edge protection ring KSR60200, for LKM cable trunking type 60200

PE

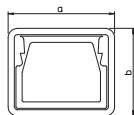


| Type | Colour | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|--------|---------|------|------------|-------------------|----------|
| | | Dim. mm | b mm | | | |
| KSR60200 | Grey | 204 | 68 | 5 | 4.700 | 6249856 |

Edge protection ring for the open ends of LKM cable trunking.

Edge protection ring KSR80080, for LKM cable trunking 80080

PE



| Type | Colour | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|--------|---------|------|------------|-------------------|----------|
| | | Dim. mm | b mm | | | |
| KSR80080 | Grey | 84 | 84 | 5 | 3.800 | 6249865 |

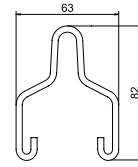
Edge protection ring for the open ends of LKM cable trunking.

St F

Suspension bracket 50

| 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.

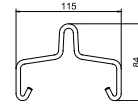


St F

Suspension bracket 100

| 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.

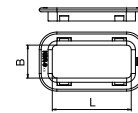


PE

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.

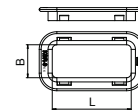


PE

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.

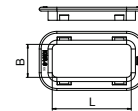


PE

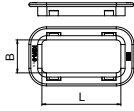
Cable protection ring 920

| 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.



Cable protection ring 925



| Type | Colour | for perforation mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|------------|-----------------------|---------------|----------------------|----------|
| KSR-925 PE | Light grey | 105x62 | 25 | 1.040 | 6066688 |

Cable protection ring for bottom perforations in AZ small ducts and luminaire support channels.

Turn buckle 50

VA 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 100

VA 2B



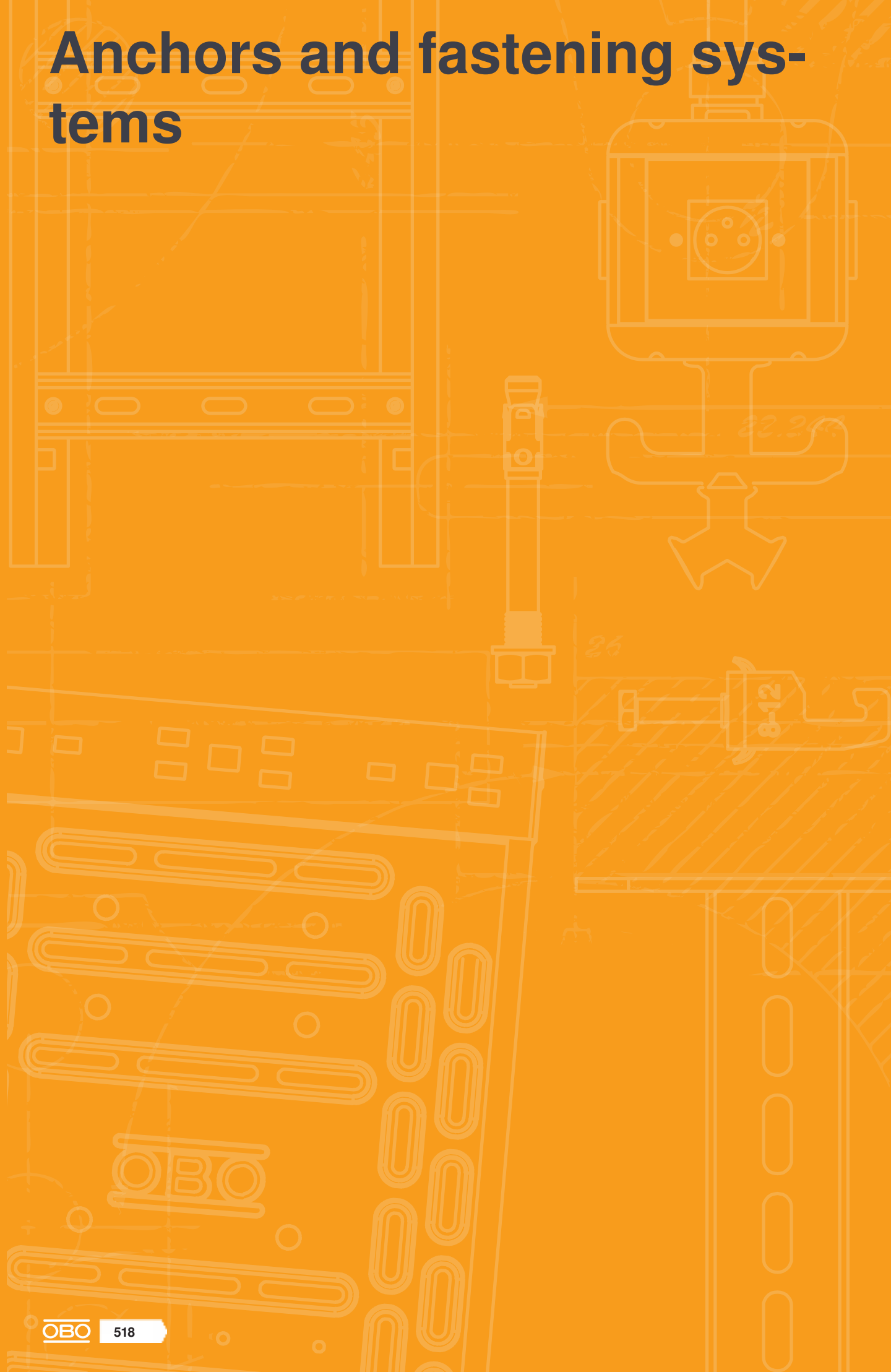
| Type | for width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|--------------------|---------------|----------------------|----------|
| AZDR 100 A2 | 100 | 10 | 2.600 | 6065317 |

Turn buckle for installation in the cover for AZ small duct and BKK system at a later date.













Anchors and fastening systems



Anchors and fastening systems

| | | |
|---|----------------------|-----|
|  | Metal anchor | 522 |
|  | Injection anchors | 532 |
|  | Accessories, anchors | 534 |
|  | Bolts | 538 |
|  | Washers and nuts | 546 |
|  | Hook | 552 |
|  | Cable tie | 554 |
|  | Fastening strips | 556 |



Universal anchor

PE

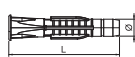


| Type | Item no. |
|--------------|----------|
| 910 FX 5x25 | 2347580 |
| 910 FX 6x30 | 2347582 |
| 910 FX 8x40 | 2347584 |
| 910 FX 10x50 | 2347586 |
| 910 FX 12x60 | 2347588 |

Also suitable as a cavity anchor, with collars to prevent slipping. 3 tabs take up the torque.
 Required minimum bolt length = anchor length + component thickness + 1 x bolt Ø.
 Withdrawal force applies to wood screws of the largest bolt diameter in concrete of class B25.
 Our safety value recommendation: 5x

All-purpose anchor

PA

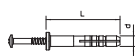


| Type | Dowel Ø mm | Dim. L mm | Wood screws Ø mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|------------|-----------|------------------|------------|-------------------|----------|
| 910 AZK 5x31 | 5 | 31 | 3-4 | 100 | 0.036 | 2348120 |
| 910 AZK 6x38 | 6 | 38 | 4-5 | 100 | 0.063 | 2348122 |
| 910 AZK 8x51 | 8 | 51 | 5-6 | 100 | 0.106 | 2348124 |
| 910 AZK 10x61 | 10 | 61 | 7-8 | 50 | 0.260 | 2348126 |
| 910 AZK 12x71 | 12 | 71 | 8-10 | 25 | 0.370 | 2348128 |

Also suitable as a cavity anchor, with collar to prevent slipping. 3 tabs take up the torque.
 Required minimum screw length = anchor length + component thickness + 1 x screw Ø.
 Withdrawal force applies to wood screws of the largest bolt diameter in concrete of class B25.
 Our safety value recommendation: 5x

Knock-in anchor

PA



| Type | Dowel Ø mm | Length mm | Pull-out force N min/concrete | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|------------|-----------|-------------------------------|------------|-------------------|----------|
| 910 SD 5X35 | 5 | 35 | 220 | 100 | 0.360 | 2351021 |
| 910 SD 6X35 | 6 | 35 | 260 | 100 | 0.310 | 2351056 |
| 910 SD 6X40 | 6 | 40 | 260 | 100 | 0.555 | 2351064 |
| 910 SD 8X55 | 8 | 55 | 350 | 50 | 1.070 | 2351099 |

Knock-in anchor: steel, electrogalvanised and transparently passivated.

Insulation anchor



Insulation plug

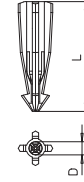
Thermo insulation anchor for universal lightweight fastening in plastered heat composite systems. The self-tapping point makes pre-drilling almost superfluous.

PA



Gas concrete anchor

| Type | Dim. | | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|------|------|------------|------------|-------------------|----------|
| | D mm | L mm | | | | |
| 910 GD 6x35 | 6 | 35 | Light grey | 100 | 0.094 | 2347229 |
| 910 GD 8x50 | 8 | 50 | Light grey | 50 | 0.263 | 2347261 |



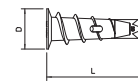
The anchor can be knocked directly into the porous concrete (gas concrete resistance class G2). With a resistance class of G4 or greater, a 5 or 6 mm hole should be pre-drilled.
Screw length: Component thickness + 40 mm (6 mm) / 55 mm (8 mm).

Plasterboard anchor

Zn

Plasterboard anchor

| Type | Dim. | | Perm. load range, tension zone kN | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|------|------|-----------------------------------|------------|-------------------|----------|
| | D mm | L mm | | | | |
| 910 GKDM 12x30 | 12 | 30 | 0.04 | 100 | 0.400 | 3483214 |

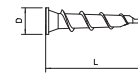


To fasten components to plasterboard or fibre composite plates.
Minimum plate thickness: 12 mm.
For Ø 4.5 Golden Sprint or Sprint screws.

Zn

Plasterboard anchor

| Type | Dim. | | Perm. load range, tension zone kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|------|------|-----------------------------------|------------|-------------------|----------|
| | D mm | L mm | | | | |
| 910 GKSM 6x25 | 7.5 | 26.4 | 0.04 | 100 | 0.160 | 3483239 |



To fasten components to plasterboard or fibre composite plates.
Min. plate thickness: 5 mm.

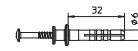
Double-flange anchor

PA



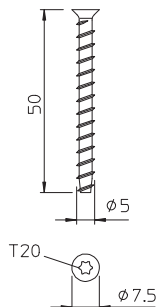
Double-flange anchor

| Type | Dowel Ø mm | Length mm | Drill hole depth mm | Shipping box Piece | Pack Piece | Weight kg/100 pc. | Item no. |
|------|------------|-----------|---------------------|--------------------|------------|-------------------|----------|
| | | | | | | | |



Knock-in anchor: steel, tempered, electrogalvanised and transparently passivated.

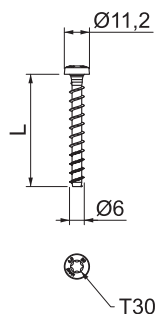
MMS-plus KS countersunk head tie, for cable clip



| Type | Dimen- sion mm | Anchor length mm | Drill hole | | | Screw system | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------------|----------------------|------------------------|---------------|--------|------|-----------------|---------------|----------------------|----------|
| | | | Ø | Head Ø | mm | | | | |
| MMS+ KS 5x50 | 5x50 | 50 | 4 | 7.5 | Torx | 200 | 0.460 | 3498204 | |

Bolt tie for direct mounting without additional anchors in concrete and masonry. With small countersunk head to fasten cable clips through the threaded foot. Load-bearing capacities under fire loads proven up to fire resistance class R120.

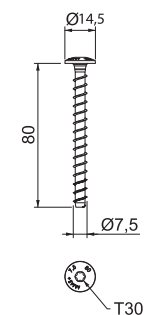
MMS-plus P round head tie, with panhead



| Type | Dimen- sion mm | Screw system | Anchor length mm | Drill hole | | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------------|----------------------|-----------------|------------------------|---------------|--------|---------------|----------------------|----------------|
| | | | | Ø | Head Ø | | | |
| MMS+ P 6x35 | 6x35 | Torx | 35 | 5 | 11.2 | 100 | 0.900 | 3498103 |
| MMS+ P 6x40 | 6x40 | Torx | 40 | 5 | 11.2 | 100 | 1.000 | 3498105 |
| MMS+ P 6x50 | 6x50 | Torx | 50 | 5 | 11.2 | 100 | 1.000 | 3498108 |

Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With round head for universal fastenings. Torx drive T30. Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.

MMS-plus P round head tie, with panhead

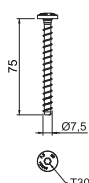


| Type | Dimen- sion mm | Anchor length mm | Drill hole | | | Screw system | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------------|----------------------|------------------------|---------------|--------|------|-----------------|---------------|----------------------|----------|
| | | | Ø | Head Ø | mm | | | | |
| MMS+ P 7.5x80 | 7,5x80 | 80 | 6 | 14.5 | Torx | 50 | 1.600 | 3498272 | |

Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With round head for universal fastenings. Torx drive T30. Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.

MMS-plus P round head tie, with panhead, made of A4 stainless steel

VA



| Type | Dimen- sion mm | Drill hole Ø | Head Ø | Screw system | Pack Piece | Weight kg/100 pc. | Item no. |
|------|----------------------|--------------------|--------|-----------------|---------------|----------------------|----------|
| | | | | | | | |

Stainless steel screw-in anchor for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With round head for universal fastenings in wet rooms and outdoor areas. Torx drive T30. Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.

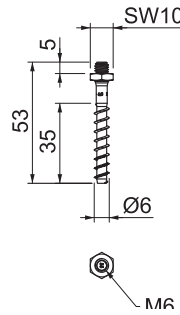
St G



MMS-plus ST push-in tie, with connection thread

| Type | Dimension mm | Drill hole Ø mm | SW mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|--------------|-----------------|-------|------------|-------------------|----------|
| MMS+ ST 6x55 | 6x55 | 5 | M6 | 100 | 1.030 | 3498264 |

Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. M6 connection thread for fastening clips with threaded foot. Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.



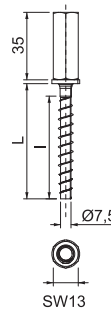
St G



MMS-plus I internal thread tie, with combination thread sleeve

| Type | Dimension mm | Dim. L mm | Drill hole Ø mm | SW mm | Pack Piece | Weight kg/100 pc. | Item no. | |
|---------------|--------------|-----------|-----------------|--------|------------|-------------------|----------|---------|
| MMS+ I 7.5x40 | 7,5x40 | 40 | 6 | M8/M10 | 13 | 40 | 3.810 | 3498266 |
| MMS+ I 7.5x60 | 7,5x60 | 60 | 6 | M8/M10 | 13 | 40 | 4.230 | 3498268 |

Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With M8/M10 combination thread sleeve for fastening threaded rods. Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.

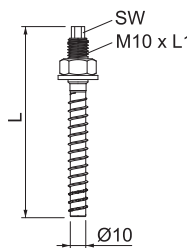


St

MMS-plus V pre-push tie, with connection thread

| Type | Dimension mm | Dim. L mm | Drill hole Ø mm | SW mm | Pack Piece | Weight kg/100 pc. | Item no. | |
|---------------|--------------|-----------|-----------------|--------|------------|-------------------|----------|---------|
| MMS+ V 10x90 | 10x90 | 90 | 8 | M10x20 | 7 | 25 | 5.500 | 3498190 |
| MMS+ V 10x110 | 10x110 | 110 | 8 | M10x40 | 7 | 25 | 6.660 | 3498192 |

Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With connection thread and washer to accept large loads. Suitable for fastening suspended loads from suspended supports and wall brackets in push-through mounting. Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.

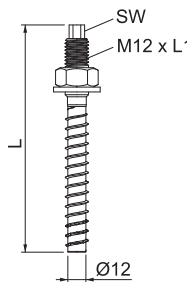


St

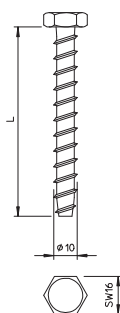
MMS-plus V pre-push tie, with connection thread

| Type | Dimension mm | Dim. L mm | Drill hole Ø mm | SW mm | Pack Piece | Weight kg/100 pc. | Item no. | |
|---------------|--------------|-----------|-----------------|--------|------------|-------------------|----------|---------|
| MMS+ V 12x110 | 12x110 | 110 | 10 | M12x30 | 8 | 25 | 6.900 | 3498196 |

Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With connection thread and washer to accept large loads. Suitable for fastening suspended loads from suspended supports and wall brackets in push-through mounting. Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.



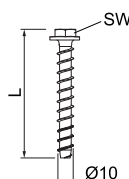
MMS-plus SS hexagonal tie, with pressed washer



| Type | Dimen- sion mm | Dim. L mm | Drill hole | | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|----------------------|-----------------|---------------|----|---------------|----------------------|----------|
| | | | Ø | SW | | | |
| MMS+ SS 10x80 | 10x80 | 80 | 8 | 13 | 25 | 4.000 | 3498124 |
| MMS+ SS 10x100 | 10x100 | 100 | 8 | 13 | 25 | 4.800 | 3498159 |

Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With hex head drive and pressed washer to accept large loads. Suitable for fastening suspended loads from suspended supports and wall brackets. Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.

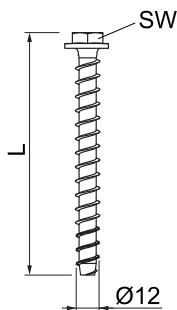
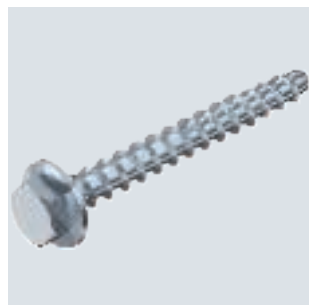
MMS-plus SS hexagonal tie, with pressed washer, made of A4 stainless steel



| Type | Dimen- sion mm | Dim. L mm | Drill hole | | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------------|----------------------|-----------------|---------------|----|---------------|----------------------|----------|
| | | | Ø | SW | | | |
| MMS+ SS 10x75 A4 | 10x75 | 75 | 8 | 13 | 25 | 3.700 | 3498126 |
| MMS+ SS 10x95 A4 | 10x95 | 95 | 8 | 13 | 25 | 4.600 | 3498128 |
| MMS+ SS 12x105 A4 | 12x105 | 105 | 10 | 15 | 25 | 8.200 | 3498174 |
| MMS+ SS 12x120 A4 | 12x120 | 120 | 10 | 15 | 25 | 9.400 | 3498176 |

Stainless steel screw-in anchor for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With hex head drive and pressed washer to accept large loads. Suitable for fastening suspended loads from suspended supports and wall brackets in wet rooms and in outdoor areas. Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.

MMS-plus hexagonal tie, with pressed washer



| Type | Dimen- sion mm | Dim. L mm | Drill hole | | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|----------------------|-----------------|---------------|----|---------------|----------------------|----------|
| | | | Ø | SW | | | |
| MMS+ SS 12x100 | 12x100 | 100 | 10 | 15 | 25 | 7.800 | 3498170 |
| MMS+ SS 12x120 | 12x120 | 120 | 10 | 15 | 25 | 8.900 | 3498172 |

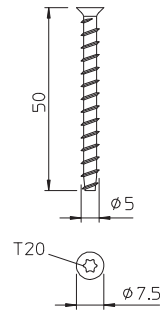
Stainless steel screw-in anchor for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With hex head drive and pressed washer to accept large loads. Suitable for fastening suspended loads from suspended supports and wall brackets in wet rooms and in outdoor areas. Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.



MMS-plus KS countersunk head tie, for cable clip

| Type | Dimen- sion mm | Anchor length mm | Drill hole | | Screw system | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------------|----------------------|------------------------|---------------|--------|-----------------|---------------|----------------------|----------------|
| | | | Ø | Head Ø | | | | |
| MMS+ KS 5x50 | 5x50 | 50 | 4 | 7,5 | Torx | 200 | 0.460 | 3498204 |

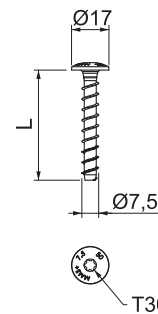
Bolt tie for direct mounting without additional anchors in concrete and masonry. With small countersunk head to fasten cable clips through the threaded foot.
Load-bearing capacities under fire loads proven up to fire resistance class R120.



MMS-plus MS mounting rail tie, with flat pan-head

| Type | Dimen- sion mm | Anchor length mm | Drill hole | | Screw system | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------------------|----------------------|------------------------|---------------|--------|-----------------|---------------|----------------------|----------------|
| | | | Ø | Head Ø | | | | |
| MMS+ MS 7.5x50 | 7,5x50 | 50 | 6 | 17 | Torx | 100 | 1.500 | 3498261 |
| MMS+ MS 7.5x60 | 7,5x60 | 60 | 6 | 17 | Torx | 50 | 1.800 | 3498262 |

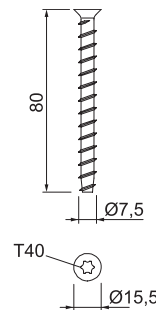
Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With large round head to fasten mounting and profile rails. Torx drive T30.
Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.



MMS-plus F countersunk head tie

| Type | Dimen- sion mm | Drill hole mm | Head Ø mm | Screw system | Pack Piece | Weight kg/100 pc. | Item no. |
|------|----------------------|---------------------|--------------|-----------------|---------------|----------------------|----------|
| | | | | | | | |

Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With countersunk head for universal fastenings. Torx drive T40.
Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.



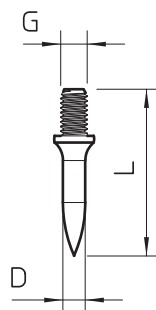
Knock-in anchor



OBO anchor

| Type | Shank length mm | Dim. L mm | Dim. D mm | Dim. G mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------------|-----------------------|-----------------|-----------------|-----------------|---------------|----------------------|----------------|
| | | | | | | | |
| 903 18 G | 18 | 26 | 4 | M6 | 100 | 0.360 | 3100189 |
| 903 25 G | 25 | 33 | 4 | M6 | 100 | 0.404 | 3100251 |
| 903 30 G | 30 | 38 | 4 | M6 | 100 | 0.470 | 3100308 |
| 903 40 G | 40 | 48 | 4 | M6 | 100 | 0.571 | 3100405 |

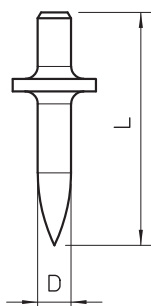
Hardened steel, electrogalvanised with M6 x 8 mm thread.



Knock-in anchor

OBO anchor

St



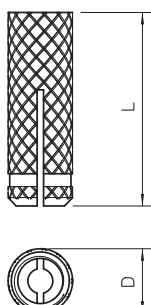
| Type | Shank length mm | Dim. L mm | Dim. D Ø mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|-----------------|-----------|-------------|------------|-------------------|----------|
| 903 RB 15 | 15 | 21 | 4 | 200 | 0.295 | 3105016 |
| 903 RB 18 | 18 | 24 | 4 | 200 | 0.348 | 3105024 |
| 903 RB 22 | 22 | 30 | 4 | 200 | 0.325 | 3105032 |

Hardened steel, shiny without thread.

Anchor, light-duty fastening

Brass spreading anchor

CuZn 37

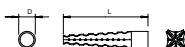


| Type | Thread | Drill hole depth mm | Length mm | Drill hole Ø mm | Pull-out value N | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|--------|---------------------|-----------|-----------------|------------------|------------|-------------------|----------|
| 865 M8x30 | M8 | 41 | 30 | 11 | 7000 | 100 | 0.867 | 3483088 |
| 865 M10x34 | M10 | 53 | 34 | 12 | 9000 | 100 | 1.315 | 3483096 |

Areas of application: full brick, concrete, wood. Ideally suited for areas exposed to high temperatures.

Metal spreading anchor

St GTP



| Type | Dim. D mm | Dim. L mm | Drill hole Ø mm | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|-----------|-----------|-----------------|------------|-------------------|----------|
| MD 5 GTP | 5 | 30 | 5-7 | 200 | 0.190 | 3484602 |
| MD 6 GTP | 6 | 32 | 7-9 | 100 | 0.250 | 3484629 |

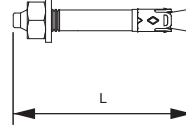
Areas of application: gas concrete, lightweight concrete, Poroton, pumice, plaster, hollow brick and full brick. Can be knocked into porous concrete (gas concrete) of low resistance without drilling. Superbly suited for areas subjected to high temperatures.

St G

Nail anchor N with thread

| Type | Thread | Drill hole | Drill hole | Clamping range | Dim. L | Dim. D | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------------|--------|------------|------------|----------------|--------|--------|------------|-------------------|----------------|
| | | Ø mm | depth mm | | | | | | |
| N 6-5-10/49 | M6 | 6 | 40 | 5-10 | 49 | | 100 | 1.160 | 3498396 |

The nail anchor N can be used for multiple fastenings of non-load-bearing systems and in cracked and non-cracked concrete, thereby combining the benefits of a bolt tie with even easier mounting. The nail tie only needs to be hammered into the drill hole. It is not necessary to apply torque subsequently. When the load occurs, the nail tie spreads itself and bolts itself in the drill hole. European Technical Approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.

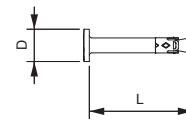


St G

Nail anchor N-K with nail head

| Type | Thread | Drill hole | Drill hole | Clamping range | Dim. L | Dim. D | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------------|--------|------------|------------|----------------|--------|--------|------------|-------------------|----------------|
| | | Ø mm | depth mm | | | | | | |
| N-K 6-5-10/44 | M6 | 6 | 40 | 5-10 | 44 | 13 | 100 | 1.135 | 3498390 |

The nail anchor N-K can be used for multiple fastenings of non-load-bearing systems and in cracked and non-cracked concrete, thereby combining the benefits of a bolt tie with even easier mounting. The nail anchor only needs to be hammered into the drill hole. When the load occurs, the nail anchor spreads itself and bolts itself in the drill hole. European Technical Approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.

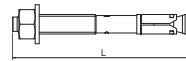


St G

Bolt tie BZ

| Type | Thread | Drill hole | Drill hole | Dim. L | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------------------|--------|------------|------------|--------|------------|-------------------|----------------|
| | | Ø mm | depth mm | | | | |
| BZ10-100-120/180 | M10 | 10 | 75 | 180 | 25 | 10.320 | 3498342 |
| BZ 10-150/230 | M10 | 10 | 75 | 230 | 25 | 13.600 | 3498344 |
| BZ 12-15-35/110 | M12 | 12 | 90 | 110 | 25 | 10.320 | 3498350 |

Bolt tie BZ for the anchoring of medium-duty to heavy-duty loads, both in cracked and non-cracked concrete. It combines high approved loads with small edge distances and axial spacings. European Technical Approval ETA-99/0010, including characteristic values under fire exposure to fire resistance R 120. Proof of suitability in the case of seismic impacts, categories C1 and C2. Shock approval by the Federal Office for Civil Protection in Bern, Switzerland.



A4 2B

Bolt tie BZ

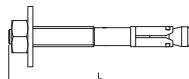
| Type | Thread | Drill hole | Drill hole | Dim. L | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------------------|--------|------------|------------|--------|------------|-------------------|----------------|
| | | Ø mm | depth mm | | | | |
| BZ12-15-35/110A4 | M12 | 12 | 90 | 110 | 25 | 10.440 | 3498352 |

Bolt tie BZ for the anchoring of medium-duty to heavy-duty loads, indoors and outdoors, both in cracked and non-cracked concrete. It combines high approved loads with small edge distances and axial spacings. European technical approval ETA-99/0010, including characteristic values under fire exposure to fire resistance R 120. Proof of suitability in the case of seismic impacts, categories C1 and C2. Shock approval by the Federal Office for Civil Protection in Bern, Switzerland.



Bolt tie BZ-U

St G



| Type | Drill hole Ø mm | Drill hole depth mm | Thread | Dim. L mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------------------|-----------------|---------------------|--------|-----------|------------|-------------------|----------------|
| BZ-U 8-10-21/75 | 8 | 60 | M8 | 75 | 50 | 3.460 | 3498320 |
| BZ-U 8-30-41/95 | 8 | 60 | M8 | 95 | 50 | 4.010 | 3498326 |
| BZ-U 10-10-30/90 | 10 | 75 | M10 | 90 | 50 | 6.720 | 3498334 |
| BZ-U10-30-50/110 | 10 | 75 | M10 | 110 | 25 | 7.900 | 3498340 |

Bolt tie BZ for the anchoring of medium-duty to heavy-duty loads, both in cracked and non-cracked concrete. It combines high approved loads with small edge distances and axial spacings.

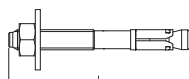
European Technical Approval ETA-99/0010, including characteristic values under fire exposure to fire resistance R 120.

Proof of suitability in the case of seismic impacts, categories C1 and C2.

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

Bolt tie BZ-U

A4 2B



| Type | Drill hole Ø mm | Drill hole depth mm | Thread | Dim. L mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------------------|-----------------|---------------------|--------|-----------|------------|-------------------|----------------|
| BZ-U8-10-21/75A4 | 8 | 60 | M8 | 75 | 50 | 3.460 | 3498322 |
| BZ-U8-30-41/95A4 | 8 | 60 | M8 | 95 | 50 | 4.090 | 3498328 |
| BZU10-10-30/90A4 | 10 | 75 | M10 | 90 | 50 | 6.740 | 3498336 |

Bolt tie BZ for the anchoring of medium-duty to heavy-duty loads, indoors and outdoors, both in cracked and non-cracked concrete. It combines high approved loads with small edge distances and axial spacings.

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

Proof of suitability in the case of seismic impacts, categories C1 and C2.

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

Impact tie, version with collar

St G



| Type | Thread | Drill hole Ø mm | Drill hole depth mm | Dim. L mm | Perm. load range, tension zone kN | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------------|--------|-----------------|---------------------|-----------|-----------------------------------|------------|-------------------|----------------|
| ES M 10x30 | M10 | 12 | 30 | 30 | 2 | 50 | 1.800 | 3492032 |
| ES M 6x25 | M6 | 8 | 25 | 25 | 1.7 | 100 | 0.600 | 3492018 |
| ES M 8x25 | M8 | 10 | 25 | 25 | 1.9 | 100 | 1.000 | 3492020 |
| ES M 8x30 | M8 | 10 | 30 | 30 | 1.7 | 100 | 1.100 | 3492023 |
| ES M 10x25 | M10 | 12 | 25 | 25 | 2.1 | 50 | 1.400 | 3492022 |
| ES M 10x40 | M10 | 12 | 40 | 40 | 2 | 50 | 2.100 | 3492024 |
| ES M 12x25 | M12 | 15 | 25 | 25 | 2.1 | 50 | 2.200 | 3492025 |
| ES M 12x50 | M12 | 15 | 50 | 50 | 2.4 | 50 | 4.100 | 3492026 |

Impact tie for single fastening of non-load-bearing systems in non-cracked concrete as well as for multiple fastening in cracked and non-cracked concrete.

Tested to fire protection standards, fire resistance class R 120 according to European Technical Approval ETA-02/0020 (option 7) and European Technical Approval ETA-05/0116.

Mounting with marking and setting tool.

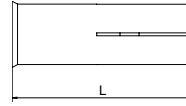
A4

Impact tie, version with collar

| Type | Thread | Drill hole Ø mm | Drill hole depth mm | Dim. L mm | Dim. zone mm | Perm. load range, tension kN | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------------|--------|-----------------|---------------------|-----------|--------------|------------------------------|------------|-------------------|----------------|
| ES M 8x30 A4 | M8 | 10 | 30 | 30 | 1.7 | | 50 | 1.100 | 3492003 |
| ES M 10x40 A4 | M10 | 12 | 40 | 40 | 2 | | 50 | 2.000 | 3492008 |
| ES M 12x50 A4 | M12 | 15 | 50 | 50 | 2.4 | | 50 | 4.300 | 3492012 |

Impact tie for single fastening of non-load-bearing systems in non-cracked concrete as well as for multiple fastening in cracked and non-cracked concrete.

Tested to fire protection standards, fire resistance class R 120 according to European Technical Approval ETA-02/0020 (option 7) and European Technical Approval ETA-05/0116. Mounting with marking and setting tool.



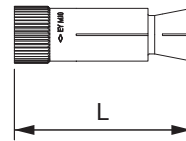
St G

Hollow core anchor Easy

| Type | Thread | Drill hole Ø mm | Dim. L mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------------|--------|-----------------|-----------|------------|-------------------|----------------|
| Easy M6 | M6 | 10 | 40 | 50 | 1.000 | 3498768 |
| Easy M8 | M8 | 12 | 44 | 25 | 1.500 | 3498770 |
| Easy M10 | M10 | 16 | 53 | 25 | 3.320 | 3498774 |
| Easy M12 | M12 | 18 | 58 | 25 | 4.230 | 3498776 |

Hollow core anchor "Easy" for mounting in prestressed hollow concrete slabs. When the screw or the nut is tightened, the cone is released from the anchor sleeve and pulled into it. This makes the anchor expand in the hollow space, thereby creating firm lock. The hollow core anchor can also be used when the expansion area is not located in the cavity. The fastening of the component can be done with standard screws and threaded rods.

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



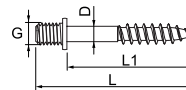
Screw-in anchor

St G

Screw-in anchor with M6 thread

| Type | Dim. G mm | Dim. D mm | Dim. L1 mm | Dim. L mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|-----------|-----------|------------|-----------|------------|-------------------|----------------|
| 985 M6 25 | M6 | 4.3 | 25 | 35 | 100 | 0.412 | 3133028 |
| 985 M6 35 | M6 | 4.3 | 35 | 45 | 100 | 0.533 | 3133036 |

With wood screw shank and M6 thread.

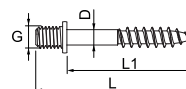


St G

Screw-in anchor with M8 thread

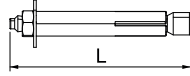
| Type | Dim. G mm | Dim. D mm | Dim. L1 mm | Dim. L mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|-----------|-----------|------------|-----------|------------|-------------------|----------------|
| 985 M8 35 | M8 | 5.2 | 35 | 47 | 100 | 0.950 | 3133230 |

With wood screw shank and M8 thread.



Porous concrete anchor with external thread

St G
DIBt 



| Type | Thread | Fix- ture thick- ness mm | Dim. L mm | Pack | Weight | Item no. |
|-----------|--------|--------------------------------------|-----------------|-------|------------|----------|
| | | | | Piece | kg/100 pc. | |
| PBD M8x10 | M8 | 10 | 88 | 25 | 7.600 | 3497608 |

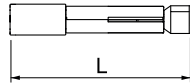
Steel spreading anchor tested for fire protection properties and approved for use in porous concrete.

Version with external thread. Suitable for fire loads of up to 120 minutes, please refer to the general construction approval for the load values (applies to porous concrete of resistance classes of min. 3.3).

A setting tool is required for mounting.

Porous concrete anchor with internal thread

St G
DIBt 



| Type | Thread | Dim. L mm | Pack | Weight | Item no. |
|----------|--------|-----------------|-------|------------|----------|
| | | | Piece | kg/100 pc. | |
| PBD i M8 | M8 | 82 | 25 | 6.200 | 3497702 |

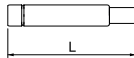
Steel spreading anchor tested for fire protection properties and approved for use in porous concrete.

Version with internal thread. Suitable for fire loads of up to 120 minutes, please refer to the general construction approval for the load values (applies to porous concrete of resistance classes of min. 3.3).

A setting tool is required for mounting.

Setting tool for hand hammer

St G

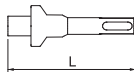


| Type | Size | Pack | Weight | Item no. |
|----------|-------|-------|------------|----------|
| | | Piece | kg/100 pc. | |
| EWP 8x10 | M8x10 | 1 | 39.800 | 3497648 |

Setting tool PBD porous concrete anchors – for hand hammer.

Setting tool for rotary hammer

St G



| Type | Size | Pack | Weight | Item no. |
|--------------|-------|-------|------------|----------|
| | | Piece | kg/100 pc. | |
| SDS-EWP 8x10 | M8x10 | 1 | 26.000 | 3497676 |

Setting tool for PBD porous concrete anchors – for rotary hammer with SDS seat.



Injection mortar in cartridge, 280 ml



| Type | Contents ml | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------------|-------------|------------|-------------------|----------------|
| VMU plus 280 | 280 | 1 | 56.000 | 3497800 |

Styrene-free, vinyl ester composite mortar for spread-free anchoring of high loads with threaded anchor rods. Coaxial cartridge, including 1 mixing tube, to be worked with the standard cartridge gun or VM-P 345 Profi.

European Technical Assessment for cracked and uncracked concrete, as well as for masonry of full and hollow brick. Earthquake-proof in concrete according to Category C1. Fire protection approval for concrete and masonry with fire resistance classes up to 120 minutes.

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

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

Injection mortar in cartridge, 420 ml



| Type | Contents ml | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------------|-------------|------------|-------------------|----------------|
| VMU plus 420 | 420 | 1 | 83.000 | 3497803 |

Styrene-free, vinyl ester composite mortar for spread-free anchoring of high loads with threaded anchor rods. Coaxial cartridge, including one mixing tube, to be worked with the pressing gun, type VM-P 380 Profi.

European Technical Assessment for cracked and uncracked concrete, as well as for masonry of full and hollow brick. Earthquake-proof in concrete according to Category C1. Fire protection approval for concrete and masonry with fire resistance classes up to 120 minutes.

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





Flattener

Flattener

St

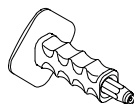


| Type | Dim. | Dim. | Size | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|------|------|------|------------|-------------------|----------|
| | L mm | D mm | | | | |
| 915 S M6 | 135 | 14 | M6 | 1 | 17.000 | 3031012 |

Flattener for OBO anchors 903 with M6 thread.

Flattener with hand protection

St



| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|------------|-------------------|----------|
| 915 RBS M4 | 1 | 52.000 | 3031500 |

Flattener with hand protection for OBO anchors 903/RB Ø 4 mm and also for OBO anchors 904 with M4 thread.

Pressing gun

Pressing gun for 10:1 coaxial cartridges



| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|------------|-------------------|----------|
| VM-P 380 Profi | 1 | 110.000 | 3497909 |

High-quality 2-component cartridge pistol. The parallel movement of the outlet to the holding grip ensures easy working. Suitable for the injection mortar type VMU plus 420.

Pressing gun for standard cartridges and side-by-side cartridges



| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|------------|-------------------|----------|
| VM-P 345 Profi | 1 | 100.000 | 3497906 |

Side-by-side cartridge pistol for the use of standard cartridges or side-by-side cartridges. The cartridge pistol is suitable for the injection mortar VMU plus 280 and can also be used with normal 300 ml cartridges.

Blow pump

Blow pump for drill holes



| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|------------|-------------------|----------|
| VM-AP 360 | 1 | 27.000 | 3497912 |

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



PA

Mixer pipe for mortar cartridge

| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|------|------------|-------------------|----------|
| VM-X | 12 | 1.000 | 3497981 |

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



Anchor rods

St G

Anchor rod

| Type | Dim. L mm | Dim. d mm | Thread | SW mm | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|-----------|-----------|--------|-------|------------|-------------------|----------|
| VMU-A 8-110vz | 110 | 6.5 | M8 | 13 | 10 | 4.350 | 3497820 |
| VMU-A 10-130vz | 130 | 8.2 | M10 | 17 | 10 | 8.150 | 3497822 |
| VMU-A 10-150vz | 150 | 8.2 | M10 | 17 | 10 | 9.150 | 3497824 |
| VMU-A 12-155vz | 155 | 9.9 | M12 | 19 | 10 | 13.850 | 3497826 |
| VMU-A 8-110A4 | 110 | 6.5 | M8 | 13 | 10 | 4.350 | 3497830 |
| VMU-A 10-130A4 | 130 | 8.2 | M10 | 17 | 10 | 8.150 | 3497832 |
| VMU-A 12-155A4 | 155 | 9.9 | M12 | 19 | 10 | 13.850 | 3497834 |



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

The anchor rod VMU-A 8x110 mm is mounted using the plastic wire sleeve VM-SH 12x80 or VM-SH 16x85.

The anchor rod VMU-A 10x130 mm is mounted using the plastic wire sleeve VM-SH 16x85.

The anchor rod VMU-A 10x150 mm is mounted using the plastic wire sleeve VM-SH 16x85 or VM-SH 16x130.

The anchor rod VMU-A 12x155 mm is mounted using the plastic wire sleeve VM-SH 20x85.

Use the wire sleeve VMU-SH 12x50 for the anchor rods M6 (L=65 mm) and M8 (L=65 mm). Should the anchor rods M8 (L=120 mm), M10 (L=140 mm), M10 (L=160 mm) and M12 (L=165 mm) be used, then use the wire sleeve VMU-SH 18x95.

Cleaning brush

St G

Steel cleaning brush for drill holes

| Type | Dia-meter mm | Length mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|--------------|-----------|--------|------------|-------------------|----------|
| RB 10 M 6 | 10 | 130 | M6 | 1 | 5.000 | 3497870 |
| RB 12 M 6 | 12 | 140 | M6 | 1 | 5.000 | 3497872 |
| RB 14 M 6 | 14 | 180 | M6 | 1 | 5.000 | 3497874 |
| RB 16 M 6 | 16 | 190 | M6 | 1 | 5.000 | 3497875 |
| RB 18 M 6 | 18 | 200 | M6 | 1 | 5.000 | 3497876 |
| RB 20 M 6 | 20 | 220 | M6 | 1 | 5.000 | 3497878 |



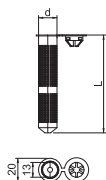
Using the steel wire brush, drill holes must be mechanically cleaned according to the anchor approval, in order to obtain a clean adhesion substrate for the injection mortar.

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

Sleeves

Plastic wire sleeve

PA



| Type | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|------|------|------------|-------------------|----------|
| | L mm | d mm | | | |
| VMU-SH 12x80 | 80 | 12 | 10 | 0.200 | 3497860 |
| VMU-SH 16x85 | 85 | 16 | 10 | 0.300 | 3497862 |
| VMU-SH 16x130 | 130 | 16 | 10 | 0.400 | 3497864 |
| VMU-SH 20x85 | 85 | 20 | 10 | 0.400 | 3497866 |

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

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

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

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

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

Adapter

SDS adapter

St



| Type | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|------------|-------------------|----------|
| RBL M6 SDS | 1 | 6.000 | 3497915 |

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

Extensions

SDS extension

St



| Type | Length mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|-----------|------------|-------------------|----------|
| RB-L 150 M6 | 150 | 1 | 9.700 | 3497932 |

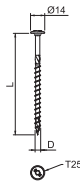
Extension with internal and external M6 thread for the connection of the SDS adapter with steel wire brush in difficult to access drill holes.





Flange head-screw HT 6

St G

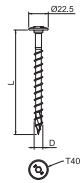


| Type | Dim. | | Head Ø | Screw system | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|------|------|--------|--------------|------------|-------------------|----------|
| | D mm | L mm | | | | | |
| HT 6x60 TD | 6 | 60 | 14 | Torx | 200 | 0.850 | 3498130 |
| HT 6x80 TD | 6 | 80 | 14 | Torx | 100 | 1.100 | 3498132 |
| HT 6x100 TD | 6 | 100 | 14 | Torx | 100 | 1.300 | 3498134 |
| HT 6x120 TD | 6 | 120 | 14 | Torx | 100 | 1.300 | 3498136 |

Self-tapping wood screw for fireproof fastening of cable systems for the maintenance of electrical function according to DIN 4102 Part 12 on supporting wooden structures. The flange head shape allows installation without an additional washer.

Flange head-screw HT 10

St G



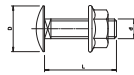
| Type | Dim. | | Head Ø | Screw system | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|------|------|--------|--------------|------------|-------------------|----------|
| | D mm | L mm | | | | | |
| HT 10x80 TD | 10 | 80 | 22.5 | Torx | 50 | 3.100 | 3498140 |
| HT 10x100 TD | 10 | 100 | 22.5 | Torx | 50 | 3.700 | 3498142 |
| HT 10x120 TD | 10 | 120 | 22.5 | Torx | 50 | 4.300 | 3498144 |
| HT 10x140 TD | 10 | 140 | 22.5 | Torx | 50 | 4.900 | 3498146 |

Self-tapping wood screw for fireproof fastening of cable systems for the maintenance of electrical function according to DIN 4102 Part 12 on supporting wooden structures. The flange head shape allows installation without an additional washer.

Truss-head bolts

Truss-head bolt with combination nut

St G

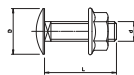


| Type | Dimen- sion | Dim. L | Dim. d | Dim. D | Resist- ance grade | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|-------------|--------|--------|--------|--------------------|------------|-------------------|----------|
| FRSB 6x12 G | M6x12 | 12 | 6 | 13.5 | 5.6 | 100 | 0.804 | 6406130 |

Hot galvanised truss-head bolt with square neck including electrogalvanised combination nut. For universal fastening of construction components. Permitted use of the article only in dry atmospheres.

Truss-head bolt with flange nut

St F



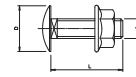
| Type | Dimen- sion | Dim. L | Dim. d | Dim. D | Resist- ance grade | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|-------------|--------|--------|--------|--------------------|------------|-------------------|----------|
| FRSB 6x12 VZ F | M6x12 | 12 | 6 | 13.5 | 5.6 | 10 | 0.840 | 6406125 |
| FRSB 6x12 F | M6x12 | 12 | 6 | 13.5 | 5.6 | 100 | 0.812 | 6406122 |
| FRSB 6x16 F | M6x16 | 16 | 6 | 13.5 | 5.6 | 100 | 0.890 | 6406157 |
| FRSB 6x20 F | M6x20 | 20 | 6 | 13.5 | 5.6 | 100 | 0.965 | 6406203 |
| FRSB 6x30 F | M6x30 | 30 | 6 | 13.5 | 5.6 | 100 | 1.232 | 6406907 |

Truss-head bolt with square neck including flange nut.

VA VA 2B

Truss-head bolt with flange nut

| Type | Dimension mm | Dim. L mm | Dim. d mm | Dim. D mm | Resistance grade | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|--------------|-----------|-----------|-----------|------------------|------------|-------------------|----------|
| FRSB 6x12 A2 | M6x12 | 12 | 6 | 13.5 | A2-70 | 100 | 0.830 | 6406138 |
| FRSB 6x16 A2 | M6x16 | 16 | 6 | 13.5 | A2-70 | 100 | 0.800 | 6406189 |
| FRSB 6x20 A2 | M6x20 | 20 | 6 | 13.5 | A2-70 | 100 | 0.960 | 6406205 |
| FRSB 6x12 A4 | M6x12 | 12 | 6 | 13.5 | A4-50 | 100 | 0.796 | 6406142 |
| FRSB 6x16 A4 | M6x16 | 16 | 6 | 13.5 | A4-50 | 100 | 0.800 | 6406193 |
| FRSB 6x20 A4 | M6x20 | 20 | 6 | 13.5 | A4-70 | 100 | 0.960 | 6406207 |

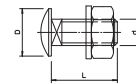


Truss-head bolt with square neck including flange nut.

VA 2B

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 10x25 A4 | M10x25 | 25 | 10 | 24 | A4-70 | 50 | 4.500 | 6407524 |

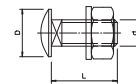


Truss-head bolt with square neck including washer and hexagonal nut.

St F

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 8x20 F | M8x20 | 20 | 8 | 20 | 5.6 | 50 | 2.054 | 6406971 |
| 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 |
| FRS 10x20 F | M10x20 | 20 | 10 | 24 | 8.8 | 50 | 4.100 | 6407471 |
| FRS 10x25 F | M10x25 | 25 | 10 | 24 | 5.6 | 50 | 4.077 | 6407528 |
| FRS 10x25 F 8.8 | M10x25 | 25 | 10 | 24 | 8.8 | 50 | 4.500 | 6407560 |
| FRS 10x25 TPS F | M10x25 | 25 | 10 | 18 | 5.6 | 50 | 4.300 | 6407536 |
| FRS 10x30 F | M10x30 | 30 | 10 | 24 | 8.8 | 50 | 4.187 | 6407579 |
| FRS 12x25 F | M12x25 | 25 | 12 | 30 | 5.6 | 50 | 6.518 | 6406254 |
| FRS 12x30 F | M12x30 | 30 | 12 | 30 | 5.6 | 50 | 6.805 | 6406270 |

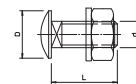


Truss-head bolt with square neck. With washer and hexagonal nut.
The truss-head bolt can be used in combination with hot-dip and double-dip galvanised articles.

VA 2B

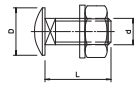
Truss-head bolt with nut and washer

| Type | Dimension mm | Dim. L mm | Dim. d mm | Dim. D mm | Resistance grade | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|--------------|-----------|-----------|-----------|------------------|------------|-------------------|----------|
| FRS 10x25 TPS A2 | M10x25 | 25 | 18 | 10 | A2-70 | 50 | 4.000 | 6407537 |



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.

Truss-head bolt with nut and washer



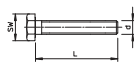
| Type | Dimension mm | Dim. L mm | Dim. d mm | Dim. D mm | Resistance grade | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|--------------|-----------|-----------|-----------|------------------|------------|-------------------|----------|
| FRS 6x12 A2 | M6x12 | 12 | 6 | 13.5 | A2-70 | 100 | 0.760 | 6406521 |
| FRS 6x16 A2 | M6x16 | 15 | 6 | 13.5 | A2-70 | 100 | 0.869 | 6406556 |
| FRS 6x20 A2 | M6x20 | 20 | 6 | 13.5 | A2-70 | 100 | 0.942 | 6406602 |
| FRS 8x16 A2 | M8x16 | 16 | 8 | 20 | A2-70 | 50 | 1.926 | 6406696 |
| FRS 8x25 A2 | M8x25 | 25 | 8 | 20 | A2-70 | 50 | 2.300 | 6406815 |
| FRS 8x35 A2 | M8x35 | 35 | 8 | 20 | A2-70 | 50 | 2.700 | 6406823 |
| FRS 10x25 A2 | M10x25 | 25 | 10 | 24 | A2-70 | 50 | 3.905 | 6406718 |
| FRS 10x30 A2 | M10x30 | 30 | 10 | 24 | A2-70 | 50 | 4.500 | 6406726 |
| FRS 12x25 A2 | M12x25 | 25 | 12 | 30 | A2-70 | 25 | 6.400 | 6406750 |
| FRS 12x30 A2 | M12x30 | 30 | 12 | 30 | A2-50 | 25 | 6.800 | 6406769 |
| FRS 6x12 A4 | M6x12 | 12 | 6 | 13.5 | A4-70 | 100 | 0.820 | 6406564 |
| FRS 6x16 A4 | M6x16 | 16 | 6 | 13.5 | A4-70 | 100 | 0.900 | 6406580 |
| FRS 6x20 A4 | M6x20 | 20 | 6 | 13.5 | A4-70 | 100 | 0.977 | 6406610 |
| FRS 8x16 A4 | M8x16 | 16 | 8 | 20 | A4-50 | 50 | 2.200 | 6406653 |
| FRS 8x16 A4 | M8x16 | 16 | 8 | 20 | A4-70 | 50 | 2.200 | 6406698 |
| FRS 12x25 A4 | M12x25 | 25 | 12 | 30 | A4-70 | 25 | 6.400 | 6406785 |
| FRS 10x20 A4 | M10x20 | 20 | 10 | 24 | A4-70 | 50 | 4.000 | 6406870 |

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

Hexagonal bolts

Hexagonal bolt with nut and washer

St F

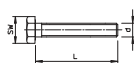


| Type | Dimension mm | Dim. L mm | Dim. d mm | SW mm | Resistance grade | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|--------------|-----------|-----------|-------|------------------|------------|-------------------|----------|
| SKS 6x12 F | M6x12 | 12 | 6 | 10 | 5.6 | 100 | 0.810 | 3156494 |
| SKS 6x20 F | M6x20 | 20 | 6 | 10 | 5.6 | 100 | 0.917 | 3156516 |
| SKS 6x30 F | M6x30 | 30 | 6 | 10 | 5.6 | 100 | 1.097 | 3156524 |

Hexagonal bolt for universal fixing of structure components.

Hexagonal bolt with nut and washer

St F

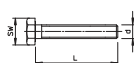


| Type | Dimension mm | Dim. L mm | Dim. d mm | SW mm | Resistance grade | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|--------------|-----------|-----------|-------|------------------|------------|-------------------|----------|
| SKS 8x16 F | M8x16 | 16 | 8 | 13 | 8.8 | 50 | 1.691 | 3158624 |
| SKS 8x20 F | M8x20 | 20 | 8 | 13 | 8.8 | 50 | 1.837 | 3158632 |
| SKS 8x30 F | M8x30 | 30 | 8 | 13 | 5.6 | 50 | 2.144 | 3158640 |

Hexagonal bolt for universal fixing of structure components.

Hexagonal bolt with nut and washer

St F



| Type | Dimension mm | Dim. L mm | Dim. d mm | SW mm | Resistance grade | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|--------------|-----------|-----------|-------|------------------|------------|-------------------|----------|
| SKS 10x25 F | M10x25 | 25 | 10 | 17 | 8.8 | 50 | 3.719 | 3160734 |
| SKS 10x30 F | M10x30 | 30 | 10 | 17 | 8.8 | 50 | 3.995 | 3160742 |
| SKS 10x40 F | M10x40 | 40 | 10 | 17 | 8.8 | 50 | 4.422 | 3160750 |
| SKS 10x60 F | M10x60 | 60 | 10 | 17 | 8.8 | 20 | 6.000 | 6408516 |
| SKS 10x80 F | M10x80 | 80 | 10 | 17 | 8.8 | 20 | 7.700 | 6418250 |
| SKS 10x90 F | M10x90 | 90 | 10 | 17 | 8.8 | 20 | 8.950 | 6418252 |
| SKS 10x120 F | M10x120 | 120 | 10 | 17 | 8.8 | 20 | 8.294 | 3160793 |

Hexagonal bolt for universal fixing of structure components.

St G

Hexagonal bolt with nut and washer

| Type | Dimension mm | Dim. L mm | Dim. l mm | Dim. d mm | Resistance SW mm | Resistance grade | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------------|--------------|-----------|-----------|-----------|------------------|------------------|------------|-------------------|----------------|
| SKS 10x110 G | M 10x110 | 110 | 30 | 10 | 17 | 5.6 | 20 | 9.500 | 6418244 |

Hexagonal bolt with washers and hexagonal nut.

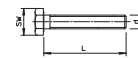


A4

Hexagonal bolt with nut and washer

| Type | Dimension mm | Dim. L mm | Dim. d mm | Resistance SW mm | Resistance grade | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------------|--------------|-----------|-----------|------------------|------------------|------------|-------------------|----------------|
| SKS 10x30 A4 | M 10x30 | 30 | 10 | 17 | A4-70 | 50 | 3.000 | 3160752 |

Hexagonal bolt for universal fixing of structure components.

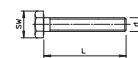


St F

Hexagonal bolt with nut and washer

| Type | Dimension mm | Dim. L mm | Dim. d mm | Resistance SW mm | Resistance grade | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------------|--------------|-----------|-----------|------------------|------------------|------------|-------------------|----------------|
| SKS 12x30 F | M 12x30 | 30 | 12 | 19 | 8.8 | 20 | 5.990 | 3163091 |
| SKS 12x40 F | M 12x40 | 40 | 12 | 19 | 8.8 | 25 | 7.800 | 3163113 |
| SKS 12x60 F | M 12x60 | 60 | 12 | 19 | 8.8 | 25 | 8.057 | 3163156 |

Hexagonal bolt for universal fixing of structure components.

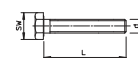


VA VA 2B

Hexagonal bolt with nut and washer

| Type | Dimension mm | Dim. L mm | Dim. d mm | Resistance SW mm | Resistance grade | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------------|--------------|-----------|-----------|------------------|------------------|------------|-------------------|----------------|
| SKS 10x90 A2 | M 10x90 | 90 | 10 | 17 | A2-70 | 20 | 10.038 | 6418255 |
| SKS 10x80 A4 | M 10x80 | 80 | 10 | 17 | A4-70 | 20 | 7.800 | 6418248 |
| SKS 10x90 A4 | M 10x90 | 90 | 10 | 17 | A4-70 | 20 | 7.800 | 6418256 |

Hexagonal bolt for universal fixing of structure components.

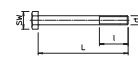


St F

Hexagonal bolt with hexagonal nut, washer and tooth lock washer

| Type | Dimension mm | Dim. L mm | Dim. l mm | Dim. d mm | Resistance SW mm | Resistance grade | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------------|--------------|-----------|-----------|-----------|------------------|------------------|------------|-------------------|----------------|
| SKS 12x80 F | M 12x80 | 80 | 30 | 12 | 19 | 8.8 | 20 | 10.000 | 6418287 |
| SKS 12x100 F | M 12x100 | 100 | 30 | 12 | 19 | 8.8 | 20 | 10.981 | 6418295 |
| SKS 12x110 F | M 12x110 | 110 | 30 | 12 | 19 | 8.8 | 20 | 14.500 | 6418317 |
| SKS 12x130 F | M 12x130 | 130 | 36 | 12 | 19 | 8.8 | 20 | 13.101 | 6408478 |

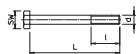
Hexagonal bolt with hexagonal nut, washer and tooth lock washer.



Hexagonal bolts

Hexagonal bolt with hexagonal nut, washer and tooth lock washer

VA 2B

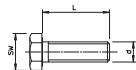


| Type | Dimension mm | Dim. L mm | Dim. l mm | Dim. d mm | SW mm | Resistance grade | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|--------------|-----------|-----------|-----------|-------|------------------|------------|-------------------|----------|
| SKS 12x80 A2 | M 12x80 | 80 | 30 | 12 | 19 | A2-70 | 20 | 10.400 | 6418279 |
| SKS 12x100 A2 | M 12x100 | 100 | 30 | 12 | 19 | A2-70 | 20 | 12.000 | 6418368 |
| SKS 12x110 A2 | M 12x110 | 110 | 30 | 12 | 19 | A2-70 | 20 | 14.500 | 6418376 |

Hexagonal bolt for universal fixing of structure components.

Hexagonal bolt with large surface screw, washer and nut

St F



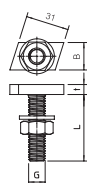
| Type | Dimension mm | Dim. L mm | Dim. d mm | SW mm | Resistance grade | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|--------------|-----------|-----------|-------|------------------|------------|-------------------|----------|
| SKS 12x40 G F | M 12x40 | 40 | 12 | 19 | 8.8 | 10 | 9.800 | 3164020 |

Hexagonal bolt with hexagonal nut, large washer and washer.
For fastening wall and support brackets on adapter plates.

Hook head screws

Hook-head screw

St ZL

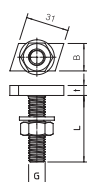


| Type | Length mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|-----------|----------|------------|-------------------|----------|
| MS40HB M6x30 ZL | 35 | 17 | 50 | 4.800 | 1148106 |
| MS40HB M8x30 ZL | 35 | 17 | 50 | 5.650 | 1148110 |
| MS40HB M8x60 ZL | 35 | 17 | 25 | 6.850 | 1148114 |
| MS40HB M10x30 ZL | 35 | 14 | 50 | 6.000 | 1148118 |
| MS40HB M10x60 ZL | 35 | 14 | 25 | 7.850 | 1148122 |
| MS40HB M12x30 ZL | 35 | 14 | 50 | 7.550 | 1148126 |
| MS40HB M12x60 ZL | 35 | 14 | 25 | 10.250 | 1148130 |

Hook-head screw for use with MS4022 profile rail

Hook head screw

A4 2B



| Type | Length mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|-----------|----------|------------|-------------------|----------|
| MS40HB M8x30 A4 | 35 | 17 | 50 | 5.650 | 1148150 |
| MS40HB M8x60 A4 | 35 | 17 | 25 | 6.850 | 1148154 |
| MS40HB M10x30 A4 | 35 | 14 | 50 | 6.000 | 1148160 |
| MS40HB M10x60 A4 | 35 | 14 | 25 | 7.850 | 1148164 |
| MS40HB M12x30 A4 | 35 | 14 | 50 | 7.550 | 1148168 |
| MS40HB M12x60 A4 | 35 | 14 | 25 | 9.320 | 1148170 |

Hook-head screw for use with MS4022 profile rail

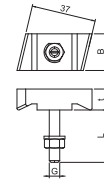


St ZL

| Type | Length mm | Width mm | Height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|-----------|----------|-----------|------------|-------------------|----------|
| MS50HB M6x30 ZL | 43 | 21 | 12 | 50 | 7.800 | 1148206 |
| MS50HB M8x30 ZL | 43 | 21 | 12 | 50 | 8.700 | 1148210 |
| MS50HB M8x60 ZL | 43 | 21 | 12 | 25 | 9.900 | 1148214 |
| MS50HB M10x30 ZL | 43.3 | 13 | 10 | 50 | 7.700 | 1148218 |
| MS50HB M10x60 ZL | 43.3 | 13 | 10 | 25 | 9.450 | 1148222 |
| MS50HB M12x30 ZL | 43.3 | 13 | 10 | 50 | 9.000 | 1148226 |
| MS50HB M12x60 ZL | 43.3 | 13 | 10 | 25 | 11.650 | 1148230 |

Hook-head screw for use with MS5030 profile rail

Hook-head screw

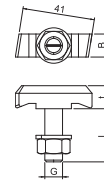


A4 2B

| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|-----------|----------|-----------|----------|------------|-------------------|----------|
| 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

Hook head bolt



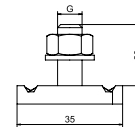
Hammer-head bolts

St ZL

| Type | Length mm | Width mm | Height mm | Thread | Torque Nm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|-----------|----------|-----------|---------|-----------|------------|-------------------|----------|
| MS41HB M6x30 ZL | 35 | 20 | 6 | M6x30 | 3.3 | 50 | 4.000 | 1148306 |
| MS41HB M8x30 ZL | 35 | 20 | 6 | M8x30 | 8 | 50 | 4.850 | 1148310 |
| MS41HB M8x60 ZL | 35 | 20 | 6 | M8x60 | 8 | 25 | 6.000 | 1148314 |
| MS41HB M8x100 ZL | 35 | 20 | 6 | M8x100 | 8 | 20 | 7.600 | 1148318 |
| MS41HB M10x30 ZL | 35 | 20 | 8 | M10x30 | 16 | 50 | 7.400 | 1148322 |
| MS41HB M10x60 ZL | 35 | 20 | 8 | M10x60 | 16 | 25 | 9.250 | 1148326 |
| MS41HB M10x100ZL | 35 | 20 | 8 | M10x100 | 16 | 20 | 11.700 | 1148330 |
| MS41HB M12x30 ZL | 35 | 20 | 9.5 | M12x30 | 27 | 50 | 9.750 | 1148334 |
| MS41HB M12x60 ZL | 35 | 20 | 9.5 | M12x60 | 27 | 25 | 12.400 | 1148338 |
| MS41HB M12x100ZL | 35 | 20 | 9.5 | M12x100 | 27 | 20 | 15.950 | 1148342 |

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

Hammer-head bolt

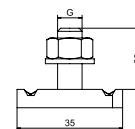


A4 2B

| Type | Length mm | Width mm | Height mm | Thread | Torque Nm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|-----------|----------|-----------|--------|-----------|------------|-------------------|----------|
| MS41HB M10x30 A4 | 35 | 20 | 8 | M10x30 | 9.9 | 50 | 7.350 | 1148422 |

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

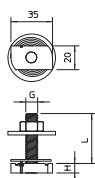
Hammer-head bolt



Hammer-head bolts

Hammer-head bolt with spring

St F

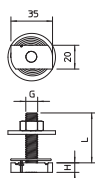


| Type | Length mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|-----------|----------|------------|-------------------|----------|
| MS41HBF M8x30 F | 35 | 20 | 50 | 5.200 | 1148376 |
| MS41HBF M8x60 F | 35 | 20 | 25 | 6.300 | 1148380 |
| MS41HBF M10x30 F | 35 | 20 | 50 | 7.700 | 1148384 |
| MS41HBF M10x60 F | 35 | 20 | 25 | 9.550 | 1148388 |
| MS41HBF M12x30 F | 35 | 20 | 50 | 10.000 | 1148392 |
| MS41HBF M12x60 F | 35 | 20 | 25 | 12.700 | 1148396 |

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

Hammer-head bolt with spring

A4 2B

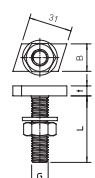


| Type | Length mm | Width mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|-----------|----------|------------|-------------------|----------|
| MS41HBF M10x30A4 | 35 | 20 | 50 | 7.350 | 1148484 |
| MS41HBF M10x60A4 | 35 | 20 | 25 | 9.200 | 1148488 |
| MS41HBF M12x30A4 | 35 | 20 | 50 | 9.700 | 1148492 |
| MS41HBF M12x60A4 | 35 | 20 | 25 | 12.400 | 1148496 |

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

Hammer-head bolt

St ZL

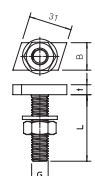


| Type | Length mm | Width mm | Height mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------------|-----------|----------|-----------|------------|-------------------|----------|
| ACMHB M6x30 ZL | 26 | 16.5 | 5 | 50 | 2.600 | 1148056 |
| ACMHB M8x30 ZL | 26 | 16.5 | 5 | 50 | 3.197 | 1148060 |
| ACMHB M8x60 ZL | 26 | 16.5 | 5 | 25 | 4.650 | 1148064 |
| ACMHB M10x30 ZL | 26 | 16.5 | 5 | 50 | 4.950 | 1148068 |
| ACMHB M10x60 ZL | 26 | 16.5 | 5 | 25 | 6.750 | 1148072 |

Hammer-head bolt for use with CM3015, CM3518 and AM3518 profile rails

Hammer-head bolt

A4 2B



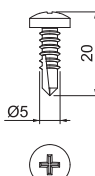
| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------------|-----------|----------|-----------|-------------|------------|-------------------|----------|
| ACMHB M6x30 A4 | 26 | 16.5 | 5 | M 6 x 30mm | 50 | 2.600 | 1148076 |
| ACMHB M8x30 A4 | 26 | 16.5 | 5 | M 8 x 30mm | 50 | 3.450 | 1148080 |
| ACMHB M8x60 A4 | 26 | 16.5 | 5 | M 8 x 60mm | 25 | 4.650 | 1148084 |
| ACMHB M10x30 A4 | 26 | 16.5 | 5 | M 10 x 30mm | 50 | 4.950 | 1148088 |
| ACMHB M10x60 A4 | 26 | 16.5 | 5 | M 10 x 60mm | 25 | 6.240 | 1148092 |

Hammer-head bolt for use with CM3015, CM3518 and AM3518 profile rails

Drilling screw

Drilling screw DIN 7504

St G



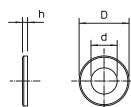
| Type | Dimension mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|--------------|------------|-------------------|----------|
| DIN 7504 N G | 4,8 x 16 | 100 | 0.250 | 3176428 |

Self-tapping, with Philips.



Washer

St G

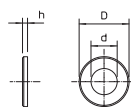


| Type | Thread | Dim. d mm | Dim. D mm | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------------|--------|-----------|-----------|---------|------------|-------------------|----------------|
| WS M6 D12 G | M6 | 6.4 | 12 | 1.6 | 100 | 0.114 | 3402061 |
| WS M8 D16 G | M8 | 8.4 | 16 | 1.6 | 100 | 0.156 | 3402088 |
| WS M10 D20 G | M10 | 10.5 | 20 | 2 | 100 | 0.408 | 3402096 |
| WS M12 D24 G | M12 | 13 | 24 | 2.5 | 100 | 0.570 | 3402126 |

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

Washer ISO 7093

St G

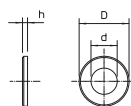


| Type | Thread | Dim. d mm | Dim. D mm | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------------|--------|-----------|-----------|---------|------------|-------------------|----------------|
| WS M6 D28 G | M6 | 6.5 | 28 | 2.5 | 100 | 1.104 | 3402207 |
| WS M8 D28 G | M8 | 8.5 | 28 | 2.5 | 100 | 1.100 | 3402215 |
| WS M10 D28 G | M10 | 11 | 28 | 2.5 | 100 | 1.020 | 3402223 |

Washer of large outer diameter for universal use.

Washer

St F

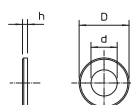


| Type | Thread | Dim. d mm | Dim. D mm | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|--------|-----------|-----------|---------|------------|-------------------|----------------|
| 966 M6 F | M6 | 6.6 | 12 | 1.6 | 100 | 0.098 | 3402444 |
| 966 M8 F | M8 | 9 | 16 | 1.6 | 100 | 0.177 | 3402452 |
| 966 M10 F | M10 | 11 | 20 | 2 | 100 | 0.327 | 3402460 |
| 966 M12 F | M12 | 13.5 | 24 | 2.5 | 100 | 0.620 | 3402479 |

Washer for universal use.

Washer

A2 2B

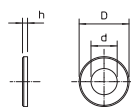
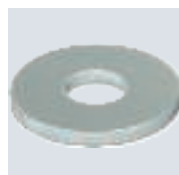


| Type | Thread | Dim. d mm | Dim. D mm | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------------|--------|-----------|-----------|---------|------------|-------------------|----------------|
| WS M6 D12 A2 | M6 | 6.4 | 12 | 1.6 | 100 | 0.114 | 3402304 |
| WS M8 D16 A2 | M8 | 8.4 | 16 | 1.6 | 100 | 0.214 | 3402312 |
| WS M10 D20 A2 | M10 | 10.5 | 20 | 2 | 100 | 0.408 | 3402320 |
| WS M12 D24 A2 | M12 | 13 | 24 | 2.5 | 100 | 0.627 | 3402339 |

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

Washer

A4 2B



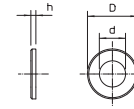
| Type | Thread | Dim. d mm | Dim. D mm | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------------|--------|-----------|-----------|---------|------------|-------------------|----------------|
| WS M6 D12 A4 | M6 | 6.4 | 12 | 1.6 | 100 | 0.114 | 3402306 |
| WS M8 D16 A4 | M8 | 8.4 | 16 | 1.6 | 100 | 0.214 | 3402314 |
| WS M10 D20 A4 | M10 | 10.5 | 20 | 2 | 100 | 0.408 | 3402322 |
| WS M12 D24 A4 | M12 | 13 | 24 | 2.5 | 100 | 0.627 | 3402345 |

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

St G

Fender washer

| Type | Thread | Dim. d mm | Dim. D mm | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|--------------|--------|-----------------|-----------------|------------|---------------|----------------------|----------|
| WS M6 G25 G | M6 | 6.4 | 25 | 1.2 | 100 | 0.428 | 3403084 |
| WS M8 G20 G | M8 | 8.4 | 20 | 1.25 | 100 | 0.227 | 3403122 |
| WS M8 G25 G | M8 | 8.4 | 25 | 1.2 | 100 | 0.408 | 3403130 |
| WS M10 G30 G | M10 | 10.5 | 30 | 1.5 | 100 | 0.598 | 3403165 |

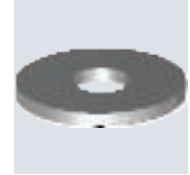
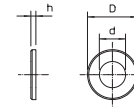


Washer of particularly large outer diameter.

A2 2B

Fender washer

| Type | Thread | Dim. d mm | Dim. D mm | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|--------|-----------------|-----------------|------------|---------------|----------------------|----------|
| WS M8 D20 A2 | M8 | 8.4 | 20 | 1.5 | 100 | 0.240 | 3403125 |
| WS M8 D25 A2 | M8 | 8.4 | 25 | 1.5 | 100 | 0.370 | 3403135 |
| WS M8 D40 A2 | M8 | 8.5 | 40 | 1.5 | 100 | 0.370 | 3403145 |
| WS M10 D30 A2 | M10 | 10.5 | 30 | 1.5 | 100 | 0.592 | 3403155 |
| WS M10 D40 A2 | M10 | 10.5 | 40 | 1.5 | 100 | 0.592 | 3403175 |

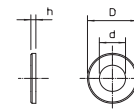


Washer of particularly large outer diameter. In the case of connections on the MS 41 mounting rail, we recommend the external diameter of 40 mm.

A4 2B

Fender washer

| Type | Thread | Dim. d mm | Dim. D mm | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|---------------|--------|-----------------|-----------------|------------|---------------|----------------------|----------|
| WS M8 D20 A4 | M8 | 8.4 | 20 | 1.5 | 100 | 0.240 | 3403127 |
| WS M8 D25 A4 | M8 | 8.4 | 25 | 1.2 | 100 | 0.370 | 3403137 |
| WS M8 D40 A4 | M8 | 8.4 | 40 | 1.5 | 100 | 0.370 | 3403147 |
| WS M10 D30 A4 | M10 | 10.5 | 30 | 1.5 | 100 | 0.592 | 3403163 |
| WS M10 D40 A4 | M10 | 10.5 | 40 | 1.5 | 100 | 0.592 | 3403177 |

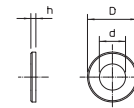


Washer of particularly large outer diameter. In the case of connections on the MS 41 mounting rail, we recommend the external diameter of 40 mm.

St F

Large washer

| Type | Thread | Dim. d mm | Dim. D mm | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|--------|-----------------|-----------------|------------|---------------|----------------------|----------|
| DIN440 7 F | M6 | 6.6 | 22 | 2 | 100 | 0.535 | 6408702 |
| DIN440 9 F | M8 | 9 | 28 | 3 | 100 | 1.057 | 6408710 |
| DIN440 11 F | M10 | 11 | 34 | 3 | 100 | 1.852 | 6408729 |
| DIN440 14 F | M12 | 13.5 | 44 | 4 | 50 | 4.736 | 6408737 |



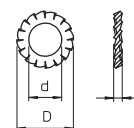
Washer of particularly large outer diameter.

Serrated washers

St G

Serrated washer DIN 6798

| Type | Thread | Dim. d mm | Dim. D mm | Dim. mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|--------|-----------------|-----------------|------------|---------------|----------------------|----------|
| SWS M8 G | M8 | 8.4 | 15 | 2.4 | 100 | 0.080 | 3404080 |
| SWS M10 G | M10 | 10.5 | 18 | 2.7 | 100 | 0.125 | 3404102 |
| SWS M12 G | M12 | 13 | 20.5 | 3 | 100 | 0.160 | 3404129 |

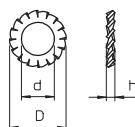


Serrated washer to DIN 6798, shape A.

Serrated washers

Serrated washer DIN 6798

A4 2B

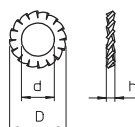


| Type | Thread | Dim. | | Dim. | Pack Piece | Weight | | Item no. |
|------------|--------|------|------|------|------------|------------|-----|----------|
| | | d mm | D mm | | | kg/100 pc. | pc. | |
| SWS M6 A4 | M6 | 6.4 | 11 | 2.1 | 100 | 0.036 | | 3404372 |
| SWS M8 A4 | M8 | 8.4 | 15 | 2.4 | 100 | 0.080 | | 3404377 |
| SWS M10 A4 | M10 | 10.5 | 18 | 2.7 | 100 | 0.125 | | 3404381 |
| SWS M12 A4 | M12 | 13 | 20.5 | 3 | 100 | 0.170 | | 3404385 |

Serrated washer to DIN 6798, shape A.

Serrated washer DIN 6798

A2 2B



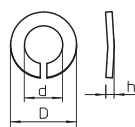
| Type | Thread | Dim. | | Dim. | Pack Piece | Weight | | Item no. |
|-----------|--------|------|------|------|------------|------------|-----|----------|
| | | d mm | D mm | | | kg/100 pc. | pc. | |
| SWS M6 A2 | M6 | 6.4 | 11 | 2.1 | 100 | 0.040 | | 3404331 |
| SWS M8 A2 | M8 | 8.4 | 15 | 2.4 | 100 | 0.080 | | 3404358 |

Serrated washer to DIN 6798, shape A.

Lock washers

Lock washer

St G



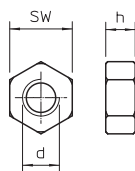
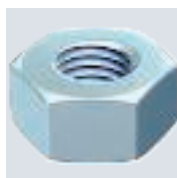
| Type | Thread | Dim. | | Dim. | Pack Piece | Weight | | Item no. |
|-----------|--------|------|------|------|------------|------------|-----|----------|
| | | d mm | D mm | | | kg/100 pc. | pc. | |
| LWS M6 G | M6 | 6.3 | 11.8 | 2.1 | 100 | 0.070 | | 3405060 |
| LWS M8 G | M8 | 8.3 | 14.8 | 2.6 | 100 | 0.130 | | 3405087 |
| LWS M10 G | M10 | 10.5 | 18.1 | 3 | 100 | 0.210 | | 3405109 |
| LWS M12 G | M12 | 12.5 | 21.1 | 3.5 | 100 | 0.320 | | 3405125 |

Lock washer according to DIN 128, shape A.

Nuts

Hexagonal nut DIN 934

St G

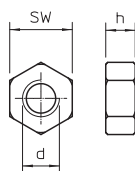
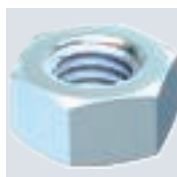


| Type | Thread | Dim. | | Dim. | Pack Piece | Weight | | Item no. |
|----------|--------|-------|------|------|------------|------------|-----|----------|
| | | SW mm | d mm | | | kg/100 pc. | pc. | |
| HN M6 G | M6 | 10 | 5.2 | 6 | 100 | 0.221 | | 3400069 |
| HN M8 G | M8 | 13 | 6.8 | 8 | 100 | 0.500 | | 3400085 |
| HN M10 G | M10 | 17 | 8.4 | 10 | 100 | 1.014 | | 3400107 |
| HN M12 G | M12 | 19 | 10.8 | 12 | 100 | 1.730 | | 3400123 |

Hexagonal nut to DIN 934 with metric thread.

Hexagonal nut ISO 4032

St F



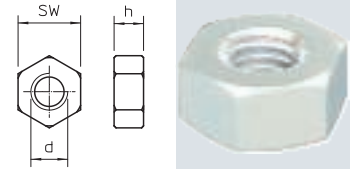
| Type | Thread | Dim. | | Dim. | Pack Piece | Weight | | Item no. |
|--------------|--------|-------|------|------|------------|------------|-----|----------|
| | | SW mm | d mm | | | kg/100 pc. | pc. | |
| DIN934 M8 F | M8 | 13 | 6.8 | 8 | 100 | 0.477 | | 3400352 |
| DIN934 M10 F | M10 | 17 | 8.4 | 10 | 100 | 1.061 | | 3400360 |
| DIN934 M12 F | M12 | 19 | 10.8 | 12 | 100 | 1.540 | | 3400379 |

Hexagonal nut to DIN 934 with metric thread.

A2 2B

Hexagonal nut DIN 934

| Type | Thread | SW mm | Dim. mm | Dim. d mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|--------|----------|------------|-----------------|---------------|----------------------|----------|
| HN M6 A2 | M6 | 10 | 5.2 | 6 | 100 | 0.215 | 3397068 |
| HN M8 A2 | M8 | 13 | 6.8 | 8 | 100 | 0.520 | 3397084 |
| HN M10 A2 | M10 | 17 | 8.4 | 10 | 100 | 1.043 | 3397106 |
| HN M12 A2 | M12 | 19 | 10.8 | 12 | 100 | 1.730 | 3397114 |

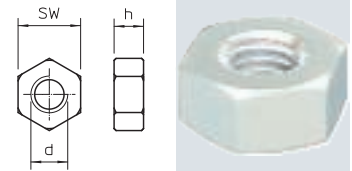


Hexagonal nut to DIN 934 with metric thread.

A4 2B

Hexagonal nut DIN 934

| Type | Thread | SW mm | Dim. mm | Dim. d mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-----------|--------|----------|------------|-----------------|---------------|----------------------|----------|
| HN M6 A4 | M6 | 10 | 5.2 | 6 | 100 | 0.250 | 3400173 |
| HN M8 A4 | M8 | 13 | 6.8 | 8 | 100 | 0.520 | 3400175 |
| HN M10 A4 | M10 | 17 | 8.4 | 10 | 100 | 1.084 | 3400177 |

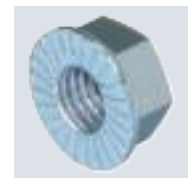
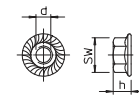


Hexagonal nut to DIN 934 with metric thread.

St G

Flange nut

| Type | Dim. d mm | Dim. mm | SW mm | Resist- ance grade | Pack Piece | Weight kg/100 pc. | Item no. |
|---------|-----------------|------------|----------|--------------------------|---------------|----------------------|----------|
| KM M6 G | 6 | 6 | 10 | 8 | 100 | 0.315 | 6408958 |

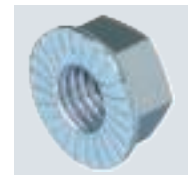
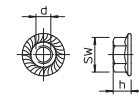


Combination nut with washer based on EN 1661.

St F

Flange nut

| Type | Dim. d mm | Dim. mm | SW mm | Resist- ance grade | Pack Piece | Weight kg/100 pc. | Item no. |
|---------|-----------------|------------|----------|--------------------------|---------------|----------------------|----------|
| KM M6 F | 6 | 6 | 10 | 8 | 100 | 0.315 | 6408962 |

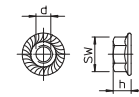


Combination nut with washer based on EN 1661.

VA 2B

Combination nut A2

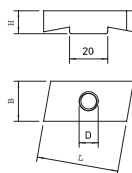
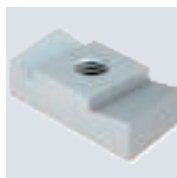
| Type | Dim. d mm | Dim. mm | SW mm | Resist- ance grade | Pack Piece | Weight kg/100 pc. | Item no. |
|----------|-----------------|------------|----------|--------------------------|---------------|----------------------|----------|
| KM M6 A2 | 6 | 6 | 10 | A2-70 | 100 | 0.315 | 6408966 |



Nut with pressed washer.

Slide nut

St ZL

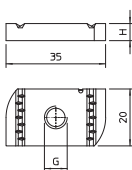


| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------------|--------------|-------------|--------------|--------|---------------|----------------------|----------------|
| MS40SN M6 ZL | 35 | 17 | 10 | M6 | 50 | 3.750 | 1147106 |
| MS40SN M8 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 | 10 | M12 | 50 | 3.160 | 1147118 |

Slide nut for use with MS4022 profile rail

Slide nut

St ZL

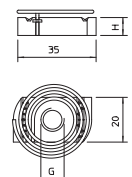


| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------------|--------------|-------------|--------------|--------|---------------|----------------------|----------------|
| MS41SN M6 ZL | 35 | 20 | 6 | M6 | 50 | 2.880 | 1147206 |
| MS41SN M8 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 with spring

St F

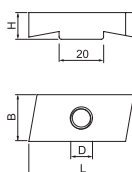
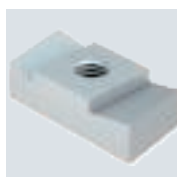


| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------------|--------------|-------------|--------------|--------|---------------|----------------------|----------------|
| MS41SNF M6 F | 35 | 20 | 6 | M6 | 50 | 3.200 | 1147306 |
| MS41SNF M8 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

St ZL

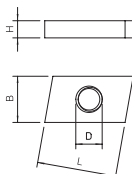


| Type | Length mm | Width mm | Height mm | Thread | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------------|--------------|-------------|--------------|--------|---------------|----------------------|----------------|
| MS50SN M6 ZL | 43 | 21 | 12 | M6 | 50 | 6.700 | 1147156 |
| MS50SN M8 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

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 |

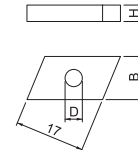
Slide nut for use with CM3015, CM3518 and AM3518 profile rails



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



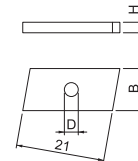
Slide nut



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



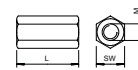
Sleeves

St G

| Type | Thread | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|------------|--------|---------|----------|---------------|----------------------|----------|
| | | L mm | SW mm | | | |
| 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.

Connection sleeve

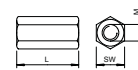


VA 2B

| Type | Thread | Dim. | | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|--------|---------|----------|---------------|----------------------|----------|
| | | L mm | SW mm | | | |
| CSTR M8 A2 | M8 | 24 | 13 | 50 | 1.880 | 6410154 |
| CSTR M10 A2 | M10 | 30 | 17 | 50 | 4.150 | 6410162 |

Connection sleeve with continuous internal thread.

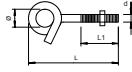
Connection sleeve



Ceiling hook

Ceiling hook

St G



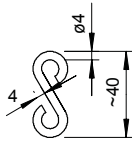
| Type | Thread | Dim. d mm | Dim. L mm | Dim. L1 mm | Dimension d Ø mm | Washer Ø mm | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---------|--------|--------------|--------------|---------------|---------------------|----------------|------------------|------------|-------------------|----------|
| 948 TG6 | M6 | 6 | 70 | 46 | 13 | 18 | 1 | 25 | 3.300 | 3453820 |

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

S hook

S hook

St G



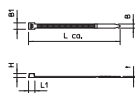
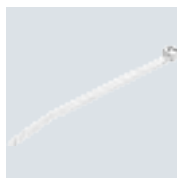
| Type | Break load kN | Pack Piece | Weight kg/100 pc. | Item no. |
|---------|------------------|------------|-------------------|----------|
| SH 40 G | 0.5 | 100 | 0.800 | 1488252 |

Connecting book of support clamps and suspension chains.





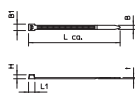
Cable tie, white



| Type | Dim. B mm | Dim. L mm | Dim. t mm | Tensile strength N | Max. bundle Ø mm | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|-----------|-----------|-----------|--------------------|------------------|--------|------------|-------------------|----------|
| 565 2.5x75 WS | 2.5 | 75 | 1 | 80 | 15 | White | 100 | 0.020 | 2331800 |
| 565 2.5x100 WS | 2.5 | 100 | 1 | 80 | 22 | White | 100 | 0.025 | 2331810 |
| 565 2.5x150 WS | 2.5 | 150 | 1.3 | 80 | 39 | White | 100 | 0.047 | 2331816 |
| 565 2.5x200 WS | 2.5 | 200 | 1.3 | 80 | 55 | White | 100 | 0.062 | 2331822 |
| 565 3.6x150 WS | 3.6 | 150 | 1.4 | 180 | 36 | White | 100 | 0.070 | 2331830 |
| 565 3.6x200 WS | 3.6 | 200 | 1.4 | 180 | 52 | White | 100 | 0.104 | 2331836 |
| 565 3.6x290 WS | 3.6 | 290 | 1.4 | 180 | 82 | White | 100 | 0.140 | 2331842 |
| 565 3.6x365 WS | 3.6 | 365 | 1.4 | 180 | 105 | White | 100 | 0.183 | 2331848 |
| 565 4.8x120 WS | 4.8 | 120 | 1.5 | 220 | 27 | White | 100 | 0.089 | 2331860 |
| 565 4.8x160 WS | 4.8 | 160 | 1.6 | 220 | 39 | White | 100 | 0.120 | 2331866 |
| 565 4.8x200 WS | 4.8 | 200 | 1.6 | 220 | 52 | White | 100 | 0.149 | 2331872 |
| 565 4.8x300 WS | 4.8 | 300 | 1.5 | 220 | 83 | White | 100 | 0.201 | 2331878 |
| 565 4.8x365 WS | 4.8 | 365 | 1.5 | 220 | 105 | White | 100 | 0.251 | 2331884 |
| 565 4.8x430 WS | 4.8 | 430 | 1.5 | 220 | 125 | White | 100 | 0.288 | 2331890 |
| 565 7.6x200 WS | 7.6 | 200 | 1.8 | 530 | 52 | White | 100 | 0.287 | 2331910 |
| 565 7.6x300 WS | 7.6 | 300 | 1.6 | 530 | 80 | White | 100 | 0.334 | 2331916 |
| 565 7.6x380 WS | 7.6 | 380 | 1.8 | 530 | 105 | White | 100 | 0.533 | 2331922 |
| 565 7.6x450 WS | 7.6 | 450 | 2 | 530 | 128 | White | 100 | 0.717 | 2331934 |
| 565 9x760 WS | 9 | 760 | 2 | 800 | 227 | White | 100 | 1.311 | 2331944 |

Cable ties are used for quick, uncomplicated fixing or bundling of cables and pipes to cable support systems or other mounting structures.

Cable tie, black, UV and weather-resistant



| Type | Dim. B mm | Dim. L mm | Dim. t mm | Tensile strength N | Max. bundle Ø mm | Colour | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|-----------|-----------|-----------|--------------------|------------------|--------|------------|-------------------|----------|
| 565 2.5x75 SWUV | 2.5 | 75 | 1 | 80 | 15 | Black | 100 | 0.020 | 2331802 |
| 565 2.5x100 SWUV | 2.5 | 100 | 1 | 80 | 22 | Black | 100 | 0.025 | 2331812 |
| 565 2.5x150 SWUV | 2.5 | 150 | 1.3 | 80 | 39 | Black | 100 | 0.047 | 2331818 |
| 565 2.5x200 SWUV | 2.5 | 200 | 1.3 | 80 | 55 | Black | 100 | 0.062 | 2331824 |
| 565 3.6x150 SWUV | 3.6 | 150 | 1.4 | 180 | 36 | Black | 100 | 0.070 | 2331832 |
| 565 3.6x200 SWUV | 3.6 | 200 | 1.4 | 180 | 52 | Black | 100 | 0.104 | 2331838 |
| 565 3.6x290 SWUV | 3.6 | 290 | 1.4 | 180 | 82 | Black | 100 | 0.140 | 2331844 |
| 565 3.6x365 SWUV | 3.6 | 365 | 1.4 | 180 | 105 | Black | 100 | 0.183 | 2331850 |
| 565 4.8x120 SWUV | 4.8 | 120 | 1.5 | 220 | 27 | Black | 100 | 0.089 | 2331862 |
| 565 4.8x160 SWUV | 4.8 | 160 | 1.6 | 220 | 39 | Black | 100 | 0.120 | 2331868 |
| 565 4.8x200 SWUV | 4.8 | 200 | 1.6 | 220 | 52 | Black | 100 | 0.149 | 2331874 |
| 565 4.8x300 SWUV | 4.8 | 300 | 1.5 | 220 | 83 | Black | 100 | 0.201 | 2331880 |
| 565 4.8x365 SWUV | 4.8 | 365 | 1.5 | 220 | 105 | Black | 100 | 0.251 | 2331886 |
| 565 4.8x430 SWUV | 4.8 | 430 | 1.5 | 220 | 125 | Black | 100 | 0.288 | 2331892 |
| 565 7.6x200 SWUV | 7.6 | 200 | 1.8 | 530 | 52 | Black | 100 | 0.287 | 2331912 |
| 565 7.6x300 SWUV | 7.6 | 300 | 1.6 | 530 | 80 | Black | 100 | 0.334 | 2331918 |
| 565 7.6x380 SWUV | 7.6 | 380 | 1.8 | 530 | 105 | Black | 100 | 0.533 | 2331924 |
| 565 7.6x450 SWUV | 7.6 | 450 | 2 | 530 | 128 | Black | 100 | 0.717 | 2331936 |
| 565 9x760 SWUV | 9 | 760 | 2 | 800 | 227 | Black | 100 | 1.311 | 2331946 |

Cable ties are used for quick, uncomplicated fixing or bundling of cables and pipes to cable support systems or other mounting structures.



Loads, installation strip

When two loads are combined, the value of the worst case applies. In addition, the table values only apply under the following conditions:

- In perforated strip 5055, loads may only be applied in the round holes.
- If placing a bolt in the last hole, always ensure that there is one full bar left above the hole.
- The right sizes of bolt for the perforated strip must be used (M5 for size I, M6 for size II, M8 for size III).
- The bolts must be tightened. The user of smaller or loose bolts causes a strong drop in the breaking load.

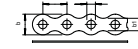


Breaking loads



Perforated steel strap, ridged

| Type | Dim. d mm | Dim. b mm | Dim. A mm | Per roll m | Pack Piece | Weight kg/100 pc. | Item no. |
|----------------|-----------|-----------|-----------|------------|------------|-------------------|----------|
| 5062 I12 FS | 5 | 12 | 14 | 10 | 1 | 69.000 | 1475126 |
| 5062 II17 FS | 7 | 17 | 20 | 10 | 1 | 98.500 | 1475177 |
| 5062 III26 FS | 9 | 26 | 25 | 10 | 1 | 183.000 | 1475266 |
| 5062 LI12 FS | 5 | 12 | 14 | 10 | 1 | 57.000 | 1475622 |
| 5062 LII17 FS | 7 | 17 | 20 | 10 | 1 | 73.000 | 1475673 |
| 5062 LIII26 FS | 9 | 26 | 25 | 10 | 1 | 153.000 | 1475762 |

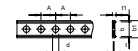


Perforated strap with wavy edges, in practical uncoiling box.



Perforated steel strap, plastic-coated

| Type | Dimension mm | Dim. d mm | Dim. A mm | Per roll m | Pack Piece | Weight kg/100 pc. | Item no. |
|------------------|--------------|-----------|-----------|------------|------------|-------------------|----------|
| 5055 L PE I 14 | 14x3 | 5.2 | 12 | 10 | 1 | 70.000 | 1473220 |
| 5055 L PE II 19 | 19x3 | 6.5 | 15 | 10 | 1 | 100.500 | 1473271 |
| 5055 L PE III 28 | 28x3,7 | 8.5 | 20 | 10 | 1 | 167.500 | 1473360 |



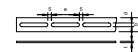
Perforated steel strap with PE plastic jacketing.

Slotted steel straps



Slotted steel strap in strips

| Type | Dimension mm | Hole size mm | Length mm | Pack m | Weight kg/100 m | Item no. |
|----------------|--------------|--------------|-----------|--------|-----------------|----------|
| OSS 20x3 3M FT | 20x3 | 6,5x40 | 3000 | 60 | 35.000 | 1465767 |
| OSS 30x3 3M FT | 30x3 | 8,5x60 | 3000 | 30 | 53.600 | 1465805 |
| OSS 40x4 3M FT | 40x4 | 8,5x70 | 3000 | 30 | 101.000 | 1465821 |

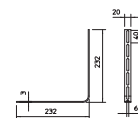


Perforated slotted steel strap in strips.



Slotted steel strap, bent

| Type | Dimension mm | Pack Piece | Weight kg/100 pc. | Item no. |
|-------------|--------------|------------|-------------------|----------|
| OSG 20X3 FT | 20x3 | 25 | 15.800 | 6017371 |

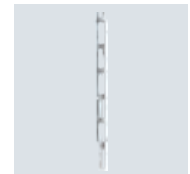
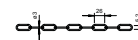


Bent slotted steel strap for creation of bends and tees.



Suspension chain

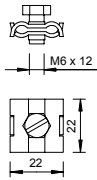
| Type | Break load kN | Pack m | Weight kg/100 m | Item no. |
|---------|---------------|--------|-----------------|----------|
| K-C30 G | 0.7 | 25 | 13.600 | 1488201 |



To suspend luminaire supports or other components.

Wire cable clamp

St G

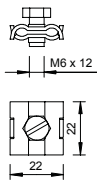


| Type | For rope-Ø | | Pack | Weight | Item no. |
|------------------|------------|-------|-------|------------|----------------|
| | mm | Bolt | Piece | kg/100 pc. | |
| 261 3-6 G | 3-6 | M6x12 | 100 | 1.498 | 5305012 |

Wire cable clamp for fastening steel wire tensioning ropes.

Wire cable clamp

VA 2B



| Type | For rope-Ø | | Pack | Weight | Item no. |
|-------------------|------------|-------|-------|------------|----------------|
| | mm | Bolt | Piece | kg/100 pc. | |
| 261 3-6 A4 | 3-6 | M6x12 | 100 | 1.498 | 5305016 |

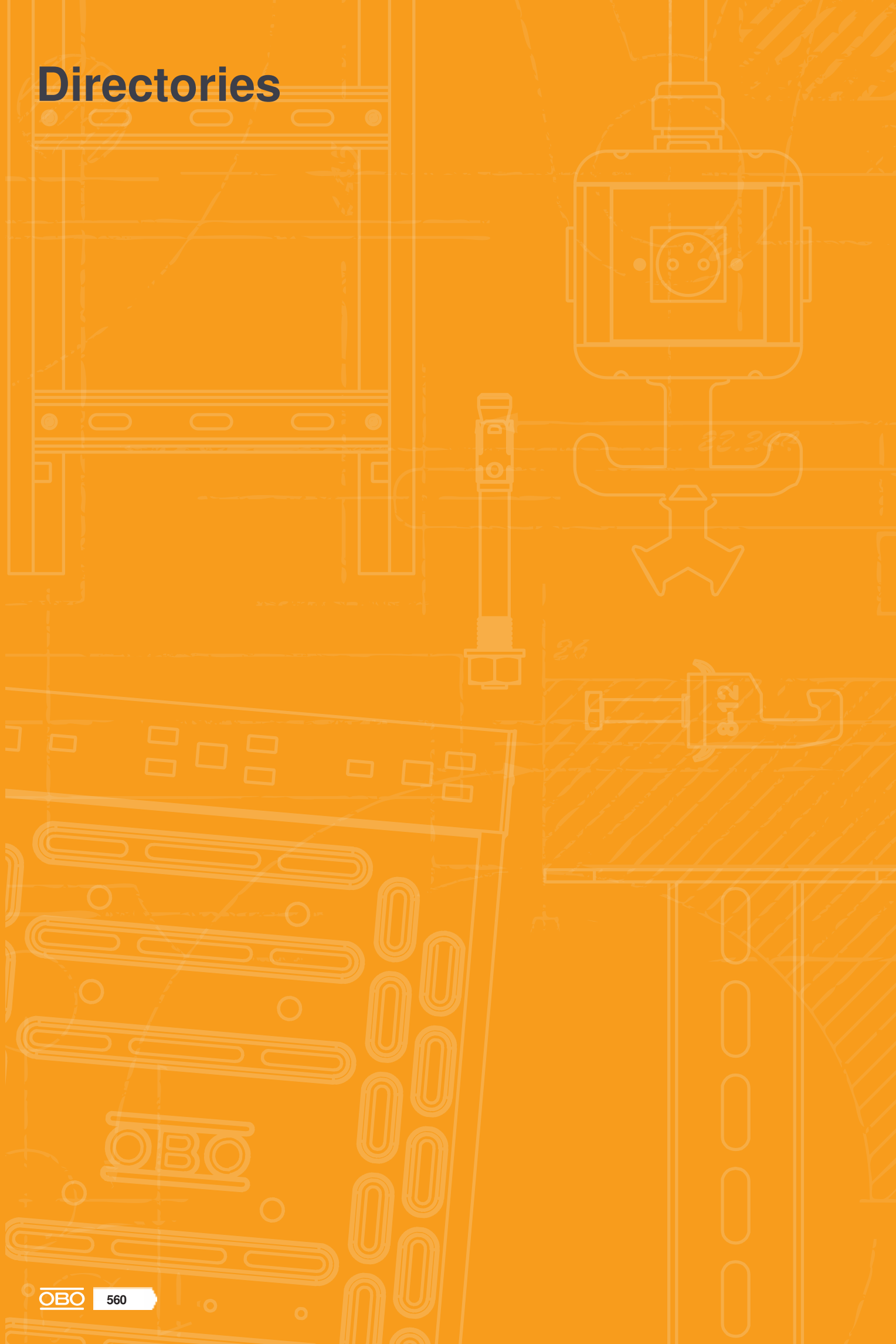
The cable and pipe fastenings of the special system include cable ties, fastening straps and installation strips, with which cable and pipe installations can be fastened to cable support systems such as cable or mesh cable trays or other mounting constructions. A complete tensioning wire system to suspend and catch cable weights is also a component part of the special system.








Directories

Directories
















Directories

| | | |
|---|-----------------------|-----|
|  | Test marks | 562 |
|  | Pictogram explanation | 564 |
|  | Numeric directory | 568 |



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 |  | Sähköarkastuskeskus 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

| | |
|---|---|
|  | Strip galvanised |
|  | Strip galvanised/plastic-coated |
|  | Strip galvanised zinc/aluminium, double dip |
|  | Bright |
|  | Bright, reworked |
|  | Anodised |
|  | Hot-dip galvanised |
|  | Electrogalvanised |
|  | Electrogalvanised/plastic-coated |
|  | Electrogalvanised, yellow-chromated |
|  | Electrogalvanised, yellow passivated |
|  | Electrogalvanised, transparently passivated |
|  | Primed |
|  | Painted |
|  | Welding primed |
|  | Hot-dip galvanised |
|  | Hot-dip galvanised 85 µm |
|  | Copper-plated |
|  | Nickel-plated |
|  | Galvanised, Deltatone 500 |
|  | Galvanised, MAGNI 565 |
|  | Zinc-aluminium coated, Galfan |
|  | 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

| | |
|---|----------------|
|  | Philips 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, fibre-glass reinforced |
| PBPT | Polybutylene terephthalate |
| PC | Polycarbonate |
| PE | Polyethylene |
| PP | Polypropylene |
| PP/GF | Polypropylene, fibre-glass reinforced |
| PS | Polystyrene |
| PVC | Polyvinylchloride |
| ZELL PE | Cellular polyethylene |



Numeric directory

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| | /100 pc. | | | price/100 | | | /100 pc. | | | /100 pc. | | | /100 pc. | | | |
| 5038238 | 1104241 | 411 | 5049210 | 1121464 | 421 | 5785316 | 1124555 | 436 | 6490066 | 1148310 | 543 | 6502790 | 1483757 | 446 | | |
| 5038290 | 1104268 | 411 | 5419686 | 1121466 | 421 | 5785323 | 1124563 | 436 | 6490073 | 1148314 | 543 | 6502806 | 1483761 | 446 | | |
| 5038351 | 1104284 | 411 | 5462249 | 1121472 | 421 | 5486008 | 1124641 | 438 | 6490080 | 1148318 | 543 | 6502837 | 1483763 | 446 | | |
| 5836353 | 1104292 | 411 | 5049272 | 1121480 | 421 | 5486015 | 1124643 | 438 | 6490110 | 1148322 | 543 | 6502844 | 1483765 | 446 | | |
| 5038412 | 1104306 | 411 | 5049333 | 1121499 | 421 | 5486022 | 1124645 | 438 | 6490127 | 1148326 | 543 | 6502851 | 1483771 | 446 | | |
| 5036678 | 1104310 | 411 | 5049937 | 1121898 | 419 | 5486039 | 1124647 | 438 | 6490134 | 1148330 | 543 | 6502868 | 1483773 | 446 | | |
| 5036739 | 1104315 | 411 | 5049999 | 1121901 | 420 | 5486046 | 1124649 | 439 | 6490141 | 1148334 | 543 | 6503704 | 1483775 | 446 | | |
| 5036791 | 1104320 | 411 | 5050179 | 1121960 | 420 | 5486053 | 1124651 | 439 | 6490172 | 1148338 | 543 | 6503148 | 1483811 | 446 | | |
| 5036852 | 1104325 | 411 | 5050230 | 1121979 | 419 | 5486060 | 1124653 | 439 | 6490189 | 1148342 | 543 | 6503155 | 1483813 | 446 | | |
| 5038474 | 1104349 | 412 | | | | 5486077 | 1124655 | 439 | 6490196 | 1148376 | 544 | 6503162 | 1483815 | 446 | | |
| 5038535 | 1104357 | 412 | 5050735 | 1122483 | 431 | 5486084 | 1124657 | 439 | 6490202 | 1148380 | 544 | 6503193 | 1483821 | 446 | | |
| 5038597 | 1104373 | 412 | 5050742 | 1122487 | 431 | 5486091 | 1124659 | 440 | 6490233 | 1148384 | 544 | 6503209 | 1483823 | 446 | | |
| 5052814 | 1104391 | 412 | 5487272 | 1122606 | 427 | 5486107 | 1124661 | 441 | 6490240 | 1148388 | 544 | 6503216 | 1483825 | 446 | | |
| 5038658 | 1104403 | 412 | 5487876 | 1122622 | 427 | 5486114 | 1124663 | 441 | 6490257 | 1148392 | 544 | 6503223 | 1483831 | 446 | | |
| 5486190 | 1104411 | 412 | 5488170 | 1122657 | 427 | 5486138 | 1124667 | 440 | 6490264 | 1148396 | 544 | 6503254 | 1483833 | 446 | | |
| 6470945 | 1104422 | 412 | 5697985 | 1122671 | 429 | 5486145 | 1124669 | 440 | 6490356 | 1148422 | 543 | 6503261 | 1483835 | 446 | | |
| 5051732 | 1104427 | 412 | 5698029 | 1122673 | 429 | 5486152 | 1124671 | 440 | 6490493 | 1148484 | 544 | 6503278 | 1483841 | 446 | | |
| 5052630 | 1104435 | 412 | 5698036 | 1122676 | 429 | 5486169 | 1124673 | 440 | 6490509 | 1148488 | 544 | 6503285 | 1483843 | 446 | | |
| | price/100 | | 5698043 | 1122678 | 429 | 6559824 | 1124792 | 441 | 6490547 | 1148492 | 544 | 6503322 | 1483845 | 446 | | |
| 5052692 | 1104445 | 412 | 5938026 | 1122682 | 429 | 6559831 | 1124796 | 441 | 6490554 | 1148496 | 544 | 6503339 | 1483901 | 447 | | |
| 5038719 | 1104454 | 412 | 5938033 | 1122684 | 429 | | | | | | | 6503346 | 1483903 | 447 | | |
| 5694458 | 1104497 | 412 | | | | /100 pc. | | 6488636 | 1147008 | 551 | 5463399 | 1154990 | 214 | 6503384 | 1483905 | 447 |
| 5038771 | 1104500 | 412 | 5686200 | 1122900 | 437 | 6488643 | 1147012 | 551 | | | | 6503391 | 1483907 | 447 | | |
| 6470921 | 1104568 | 412 | 5686217 | 1122902 | 436 | 6488650 | 1147016 | 551 | 5126799 | 1408011 | 451 | 6503407 | 1483911 | 447 | | |
| 6470938 | 1104570 | 412 | 6255726 | 1122904 | 437 | 6488667 | 1147020 | 551 | 5126850 | 1408046 | 451 | 6503438 | 1483915 | 447 | | |
| 6471041 | 1104598 | 413 | 5894117 | 1122906 | 437 | 6488674 | 1147024 | 551 | | price/100 | | 6503445 | 1483919 | 447 | | |
| 6471058 | 1104599 | 413 | | | | 6488681 | 1147028 | 551 | 5127031 | 1408534 | 449 | 6503452 | 1483923 | 447 | | |
| | | | 5697503 | 1122908 | 427 | 6488698 | 1147032 | 551 | | | | 6503469 | 1483931 | 447 | | |
| 5040095 | 1106627 | 405 | 5686224 | 1122910 | 427 | 6488810 | 1147056 | 550 | | price/100 | | 6503490 | 1483933 | 447 | | |
| | | | 5686231 | 1122912 | 427 | 6488827 | 1147060 | 550 | 5137597 | 1465767 | 557 | 6503506 | 1483935 | 447 | | |
| 5040453 | 1107127 | 406 | 5686248 | 1122914 | 431 | 6488858 | 1147064 | 550 | 5137771 | 1465805 | 557 | 6503513 | 1483937 | 447 | | |
| | | | 5686255 | 1122916 | 431 | 6489398 | 1147106 | 550 | 5137832 | 1465821 | 557 | 6503520 | 1483941 | 447 | | |
| 5041894 | 1109529 | 407 | 5686262 | 1122918 | 423 | 6489404 | 1147110 | 550 | | | | 6503551 | 1483945 | 447 | | |
| | /100 pc. | | 5686279 | 1122920 | 423 | 6489411 | 1147114 | 550 | | /pc. | | 6503568 | 1483951 | 447 | | |
| 5036975 | 1109782 | 408 | 5686286 | 1122922 | 423 | 6489428 | 1147118 | 550 | 5139393 | 1473220 | 557 | 6503575 | 1483955 | 447 | | |
| 5037033 | 1109790 | 408 | 5697541 | 1122923 | 423 | 6489619 | 1147156 | 550 | 5139454 | 1473271 | 557 | 6503735 | 1483960 | 447 | | |
| 5037095 | 1109804 | 408 | 5686293 | 1122924 | 423 | 6489626 | 1147160 | 550 | 5139515 | 1473360 | 557 | 6503582 | 1483961 | 447 | | |
| 5037156 | 1109812 | 408 | 6471225 | 1122925 | 425 | 6489633 | 1147164 | 550 | | | | 6503612 | 1483963 | 447 | | |
| 5037217 | 1109820 | 408 | 5686309 | 1122926 | 423 | 6489640 | 1147168 | 550 | 5139935 | 1475126 | 557 | 6503629 | 1483965 | 447 | | |
| 5037279 | 1109839 | 408 | 5697558 | 1122928 | 425 | 6489855 | 1147206 | 550 | 5139997 | 1475177 | 557 | 6503636 | 1483969 | 447 | | |
| 5037330 | 1109847 | 408 | 5697565 | 1122929 | 425 | 6489862 | 1147210 | 550 | 5140054 | 1475266 | 557 | 6503663 | 1483973 | 447 | | |
| | price/100 | | 5697602 | 1122931 | 425 | 6489879 | 1147214 | 550 | 5140115 | 1475622 | 557 | 6503674 | 1483977 | 447 | | |
| 5037934 | 1109863 | 408 | | | | 6489886 | 1147218 | 550 | 5140177 | 1475673 | 557 | 6503681 | 1483981 | 447 | | |
| 5041771 | 1109871 | 408 | 5697626 | 1122933 | 424 | 6489930 | 1147306 | 550 | 5140238 | 1475762 | 557 | 6503698 | 1483985 | 447 | | |
| | | | 5697664 | 1122934 | 424 | 6489947 | 1147310 | 550 | | | | 6503131 | 1483999 | 447 | | |
| 5053897 | 1110002 | 408 | 5697671 | 1122935 | 424 | 6489954 | 1147314 | 550 | | /100 pc. | | | | | | |
| 5042075 | 1110004 | 409 | 5697688 | 1122936 | 424 | 6489961 | 1147318 | 550 | 6502165 | 1483601 | 445 | 6342112 | 1486232 | 449 | | |
| | | | 5697725 | 1122937 | 424 | | | | 6502172 | 1483603 | 445 | 6342136 | 1486234 | 450 | | |
| 5043393 | 1112228 | 414 | 5697732 | 1122938 | 424 | 6488865 | 1148056 | 544 | 6502189 | 1483605 | 445 | 6342167 | 1486238 | 450 | | |
| 5043454 | 1112244 | 414 | 5697749 | 1122939 | 424 | 6488872 | 1148060 | 544 | 6502196 | 1483607 | 445 | 6342174 | 1486242 | 451 | | |
| 5632597 | 1112708 | 416 | 5697787 | 1122940 | 424 | 6488889 | 1148064 | 544 | 6502295 | 1483621 | 445 | 6342129 | 1486282 | 449 | | |
| 6470754 | 1112735 | 410 | | | | 6488919 | 1148068 | 544 | 6502301 | 1483623 | 445 | 6342143 | 1486284 | 450 | | |
| 6470778 | 1112755 | 410 | 5697794 | 1122944 | 426 | 6488926 | 1148072 | 544 | 6502318 | 1483625 | 445 | 6342204 | 1486288 | 450 | | |
| 5632535 | 1112759 | 417 | 5697800 | 1122945 | 426 | 6488933 | 1148076 | 544 | 6502370 | 1483641 | 445 | 6342211 | 1486292 | 451 | | |
| | | | 5697848 | 1122947 | 426 | 6488940 | 1148080 | 544 | 6502387 | 1483643 | 445 | | | | | |
| 6470730 | 1119646 | 410 | 5697855 | 1122948 | 426 | 6488971 | 1148084 | 544 | 6502417 | 1483645 | 445 | 5150855 | 1488015 | 448 | | |
| 5864318 | 1119648 | 410 | 5938019 | 1122954 | 426 | 6488988 | 1148088 | 544 | 6502424 | 1483647 | 445 | 5150916 | 1488023 | 448 | | |
| 5047599 | 1119656 | 410 | 5698081 | 1122962 | 428 | 6488995 | 1148092 | 544 | 6502431 | 1483649 | 445 | 5150978 | 1488031 | 448 | | |
| 5053958 | 1119672 | 410 | 5698098 | 1122964 | 428 | 6489473 | 1148106 | 542 | 6502448 | 1483651 | 445 | 5151036 | 1488074 | 448 | | |
| | /100 pc. | | 5698104 | 1122966 | 428 | 6489480 | 1148110 | 542 | 6502479 | 1483653 | 445 | 5151098 | 1488082 | 448 | | |
| 5059295 | 1119678 | 415 | 5698142 | 1122970 | 428 | 6489497 | 1148114 | 542 | 6502486 | 1483661 | 445 | 5151159 | 1488090 | 448 | | |
| 5059356 | 1119681 | 415 | 5698159 | 1122972 | 428 | 6489503 | 1148118 | 542 | 6502493 | 1483663 | 445 | 5407140 | 1488111 | 449 | | |
| 5059417 | 1119684 | 415 | 5698166 | 1122974 | 428 | 6489510 | 1148122 | 542 | 6502509 | 1483665 | 445 | | price/100 | | | |

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| | /100 pc. | | | /100 pc. | | | /100 pc. | | | /100 pc. | | | price/m | |
| 6417117 | 2331844 | 554 | 6096886 | 3141327 | 385 | 5301691 | 3404080 | 547 | 6563999 | 3498146 | 538 | 6397679 | 6000331 | 196 |
| 6417124 | 2331848 | 554 | 6096893 | 3141328 | 385 | 5301752 | 3404102 | 547 | 6559633 | 3498159 | 524 | 6397686 | 6000451 | 196 |
| 6417131 | 2331850 | 554 | 5882886 | 3141330 | 385 | 5301813 | 3404129 | 547 | 6842681 | 3498160 | 525 | 6397693 | 6000515 | 196 |
| 6417155 | 2331860 | 554 | 6096909 | 3141339 | 385 | 5301936 | 3404331 | 548 | 6842575 | 3498170 | 524 | 6397709 | 6000775 | 196 |
| 6417162 | 2331862 | 554 | 6098385 | 3141482 | 385 | 5301998 | 3404358 | 548 | 6842582 | 3498172 | 524 | 6622108 | 6000909 | 197 |
| 6417179 | 2331866 | 554 | 6098392 | 3141484 | 385 | 6095506 | 3404372 | 548 | 6952205 | 3498174 | 524 | 6622115 | 6000913 | 197 |
| 6417186 | 2331868 | 554 | 6098408 | 3141492 | 385 | 6095513 | 3404377 | 548 | 6952236 | 3498176 | 524 | 6622139 | 6000917 | 197 |
| 6417193 | 2331872 | 554 | 6098439 | 3141494 | 385 | 6095520 | 3404381 | 548 | 6842629 | 3498190 | 523 | 6622146 | 6000925 | 197 |
| 6417216 | 2331874 | 554 | 6098446 | 3141502 | 385 | 6095537 | 3404385 | 548 | 6842636 | 3498192 | 523 | 6448388 | 6000933 | 197 |
| 6417223 | 2331878 | 554 | | | | | | | 6842643 | 3498196 | 523 | 6622153 | 6000941 | 197 |
| 6417230 | 2331880 | 554 | 5255857 | 3156494 | 540 | 5302292 | 3405060 | 548 | | /100 pc. | | 6448418 | 6000958 | 197 |
| 6417247 | 2331884 | 554 | 5255970 | 3156516 | 540 | 5302353 | 3405087 | 548 | 5964100 | 3498204 | 522 | | | |
| 6417254 | 2331886 | 554 | 5256038 | 3156524 | 540 | 5302414 | 3405109 | 548 | 6559664 | 3498261 | 525 | 5430933 | 6001070 | 174 |
| 6417278 | 2331890 | 554 | | | | 5302476 | 3405125 | 548 | 6842568 | 3498262 | 525 | 6101290 | 6001072 | 174 |
| 6417285 | 2331892 | 554 | 5256571 | 3158624 | 540 | | | | | /100 pc. | | 6101351 | 6001074 | 174 |
| 6417292 | 2331910 | 554 | 5256632 | 3158632 | 540 | 5513315 | 3453820 | 552 | 6559671 | 3498264 | 523 | 6101412 | 6001076 | 174 |
| 6417308 | 2331912 | 554 | 5256694 | 3158640 | 540 | | | | 6710881 | 3498266 | 523 | 6101771 | 6001078 | 174 |
| 6417315 | 2331916 | 554 | | | | 5311232 | 3483088 | 526 | 6710911 | 3498268 | 523 | 6102198 | 6001080 | 174 |
| 6417346 | 2331918 | 554 | 5257233 | 3160734 | 540 | 5311294 | 3483096 | 526 | | /100 pc. | | 6102259 | 6001082 | 174 |
| 6417339 | 2331922 | 554 | 5257295 | 3160742 | 540 | 5418191 | 3483214 | 521 | 6559640 | 3498272 | 522 | 6102310 | 6001085 | 174 |
| 6417353 | 2331924 | 554 | 5257356 | 3160750 | 540 | 5418207 | 3483239 | 521 | 6952243 | 3498274 | 522 | 5431046 | 6001087 | 175 |
| 6417360 | 2331934 | 554 | 5618423 | 3160752 | 541 | | | | | /100 pc. | | 5166016 | 6001088 | 175 |
| 6417377 | 2331936 | 554 | 5505631 | 3160793 | 540 | 5683414 | 3484602 | 526 | 6411818 | 3498320 | 528 | 5166023 | 6001090 | 175 |
| 6417384 | 2331944 | 554 | | | | 5683353 | 3484629 | 526 | 6411825 | 3498322 | 528 | 5166061 | 6001091 | 175 |
| 6417391 | 2331946 | 554 | 5258070 | 3163091 | 541 | | | | 6411832 | 3498326 | 528 | 5166078 | 6001093 | 175 |
| | | | 5258131 | 3163113 | 541 | 6709557 | 3492003 | 529 | 6411849 | 3498328 | 528 | 5166085 | 6001095 | 175 |
| 5828198 | 2347229 | 521 | 5258254 | 3163156 | 541 | 6709564 | 3492008 | 529 | 6411856 | 3498334 | 528 | 5166122 | 6001097 | 175 |
| 5828259 | 2347261 | 521 | | | | 6709595 | 3492012 | 529 | 6411863 | 3498336 | 528 | 5166139 | 6001099 | 175 |
| 5448099 | 2347407 | 521 | 5317418 | 3164020 | 542 | 6709601 | 3492018 | 528 | 6411870 | 3498340 | 528 | 5430940 | 6001415 | 173 |
| 6788521 | 2347580 | 520 | | | | 6709618 | 3492020 | 528 | 6411887 | 3498342 | 527 | 6814879 | 6001416 | 173 |
| 6788538 | 2347582 | 520 | 5871156 | 3176428 | 544 | 6709625 | 3492022 | 528 | 6592678 | 3498344 | 527 | 6078912 | 6001418 | 173 |
| 6788545 | 2347584 | 520 | | | | 6395934 | 3492023 | 528 | 6411894 | 3498350 | 527 | 6814930 | 6001420 | 173 |
| 6788552 | 2347586 | 520 | 5297673 | 3397068 | 549 | 6709656 | 3492024 | 528 | 6411900 | 3498352 | 527 | 6815050 | 6001424 | 173 |
| 6788569 | 2347588 | 520 | 5297734 | 3397084 | 549 | 6709663 | 3492025 | 528 | 6411924 | 3498390 | 527 | 6815111 | 6001428 | 173 |
| | | | 5297796 | 3397106 | 549 | 6709670 | 3492026 | 528 | 6411948 | 3498396 | 527 | 6815173 | 6001432 | 173 |
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