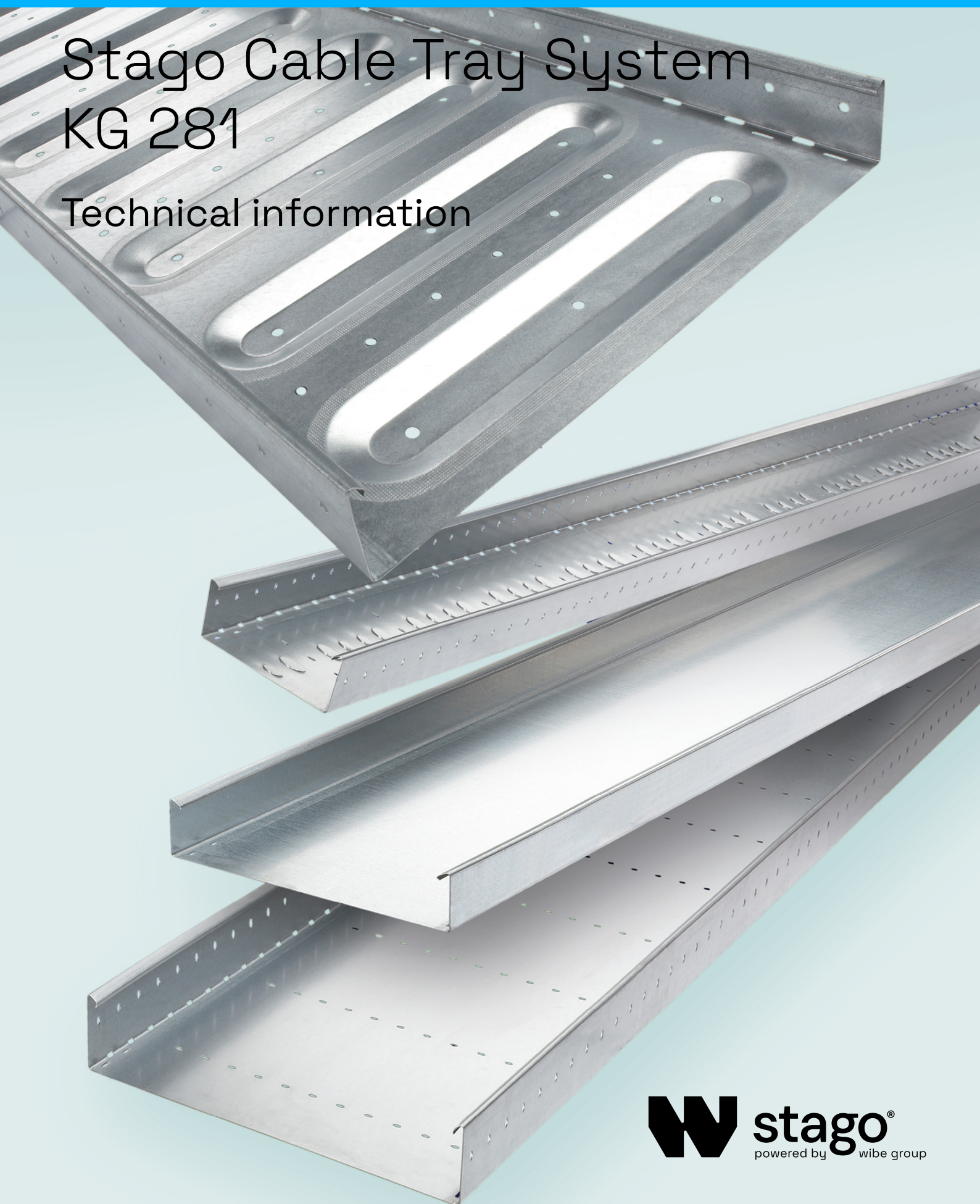


Stago Cable Tray System KG 281

Technical information



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Cable tray system KG281

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Cable Support Systems with Fire-Resistant Functionality58

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Wibe Group

Four of the world's leading cable management brands offering a complete, innovative range of cable ladders, cable trays and mesh trays – for applications ranging from commercial buildings to extreme demanding industrial environments.

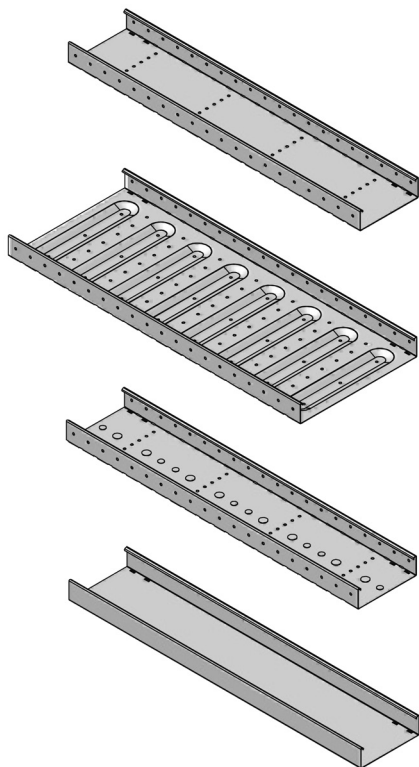
General information

The Stago cable tray system KG 281 is universally applicable in both commercial building projects and for light industrial applications. The system is highly comprehensive and provides all the possibilities for installing cabling in a clear and systematic manner within a building.

Length material

Cable trays are manufactured from sheet steel in a roll-forming process. Within this process, the incorporation of a double folded beaded edge is essential. This builds considerable longitudinal strength, allowing you to achieve large spans when suspending Stago cable trays KG 281. This results in savings on both suspension structures and installation labour.

The straight lengths are available in four different basic versions:



Cable tray with side perforation

Standard tray for almost all conceivable situations, available in widths ranging from 70 to 330 mm and in sheet thicknesses of 0.8 and 1.0 mm.

Cable tray with side perforation and profiled base

Identical to the above, but available in widths ranging from 400 to 600 mm with additional reinforcement in the base for extra stability.

Cable tray with side perforation and knockout ports

Particularly suitable for linear lighting applications. Thanks to the pre-punched knockout ports, cabling can easily be fed in and out along the system's central line. Widths from 70 to 250 mm.

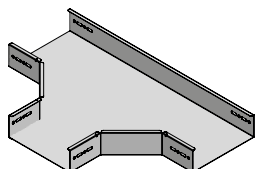
Fully enclosed cable tray

Completely closed system for architectural applications and special situations, available in widths ranging from 70 to 330 mm.

The straight lengths can easily be connected to each other using various jointing plates. The most common is the screwless jointing plate, which is quick and easy to install while providing excellent stability. Straight lengths can also be fitted with one or more dividers, which can be installed screwlessly and quickly with a locking clip.

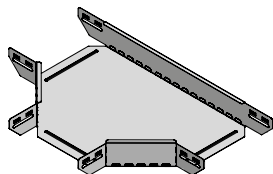
Accessories

For creating branches, both horizontal and vertical, a wide range of accessories is available. Wibe Group is the only manufacturer offering a choice between two complete ranges of fittings: fixed or flat accessories. Each range has its own specific advantages:



Fixed accessories

The fixed fittings are robust and industrial in design. They fully enclose the tray, are ready for direct installation, and can be connected to the tray with a screwless spring connector.



Flat accessories

Flat fittings are extremely compact, taking up very little space during storage and transport. On site, they are bent into shape with just a few simple folds. The advantage for you: flat accessories are considerably cheaper than corresponding fixed fittings.

General information

Suspension

For wall and ceiling mounting of cable trays, a wide range of suspension structures is available. From simple single-point wire rod hangers to heavy-duty multi-support bracket systems, all allow quick and easy tray installation. Naturally, there are many options for fast screwless assembly as well as concealed suspension.

Corrosion Resistance

Stago trays and accessories are manufactured from sendzimir galvanised sheet steel, ensuring excellent corrosion resistance. This makes them suitable not only for office environments but also ideal for light industrial use. The galvanising process complies with standard NEN-EN 10327. Composite and heavier components are supplied hot-dip galvanised in accordance with NEN-EN ISO 1461.

Architectural Applications

For exposed installations and design applications, the tray system and most components can be supplied in cream white RAL 1013 or any other desired colour and gloss level. The finish is applied using a powder-coating process, making it particularly scratch-resistant. The coating is applied to the visible surfaces of the products.

Your Specific Advantages:

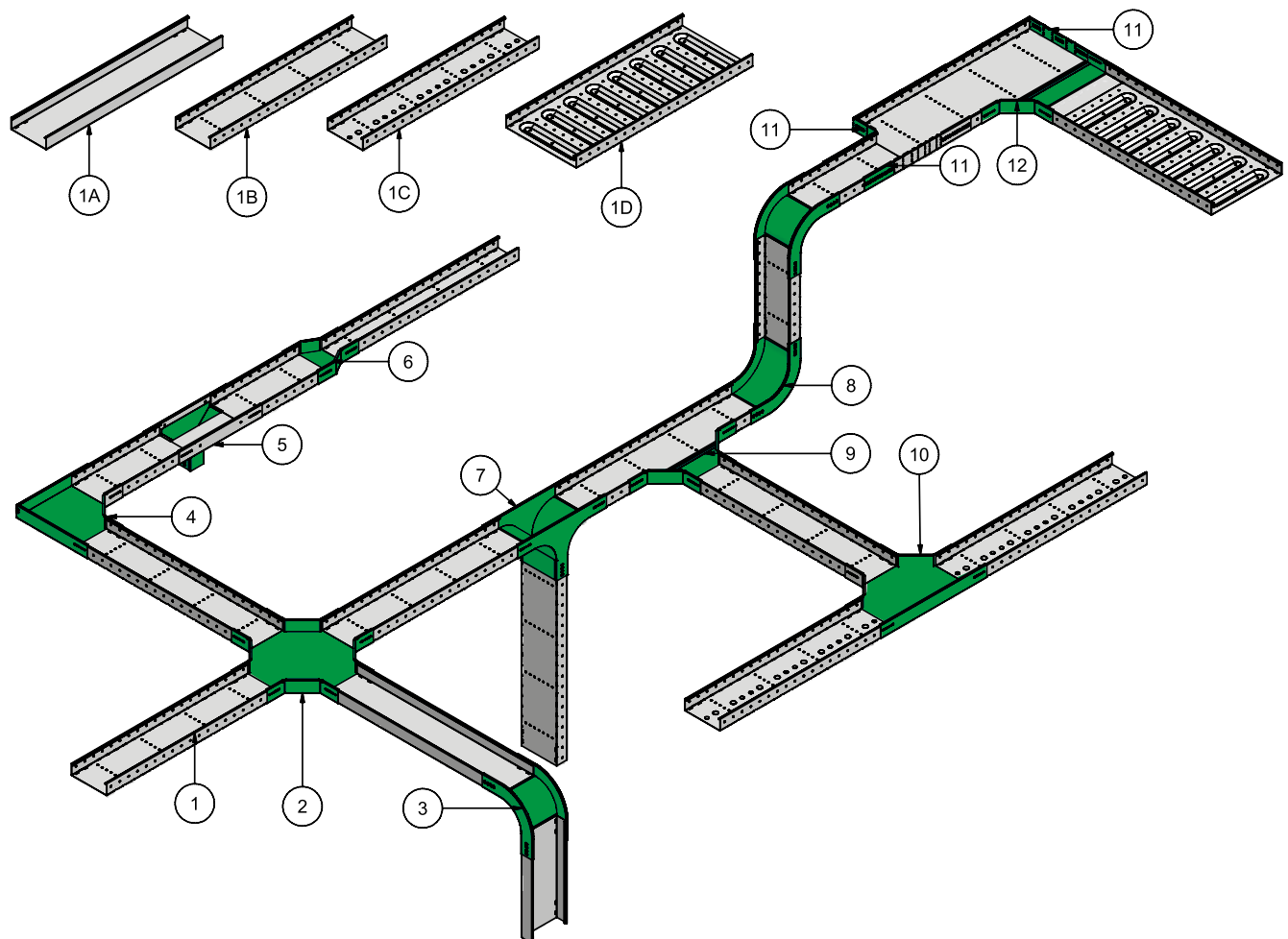
- Numerous screwless connections for quick and easy installation
- Choice between flat and fixed accessories
- Safe working load in accordance with IEC 61537
- Fewer suspension points required thanks to the tray's strength: double folded beaded edge and pressed base
- Smart and well-designed suspension systems
- Convenience of project-based installation

Installation Instructions

- Mount Stago trays KG 281 wherever possible in such a way that cables can simply be laid into the trays. Avoid "threading" cables wherever possible.
- It is recommended to install trays at least 300 mm below fixed ceilings. This ensures that cabling remains easily accessible for maintenance and extensions.
- Where two trays are installed one above the other, a minimum clearance of 200 mm should be maintained.
- A clearance of at least 50 mm should be kept between tray and wall, allowing cables to pass between wall and tray. Remove any burrs created by sawing or drilling before installing cables. In some cases, it is advisable to apply protective strip over sharp edges.
- During installation, it may sometimes be necessary to cut products to size or add extra holes. These must be carefully deburred immediately to prevent cable damage and/or personal injury. In some cases, applying protective strip to sharp edges is recommended.
- We advise the use of personal protective equipment during installation work, such as work clothing, safety helmet, footwear, and gloves.
- To avoid mechanical damage to cables, M6 fixing screws should wherever possible be installed with the rounded head inside the tray.
- Stago trays KG 281 are mounted on wall or ceiling structures, C-clamps or support profiles. When determining suspension spacing, the load capacity of both the trays and the suspension devices must be taken into account. See the various load diagrams in this catalogue. Elsewhere in this catalogue, additional installation instructions are provided at article level.

General information

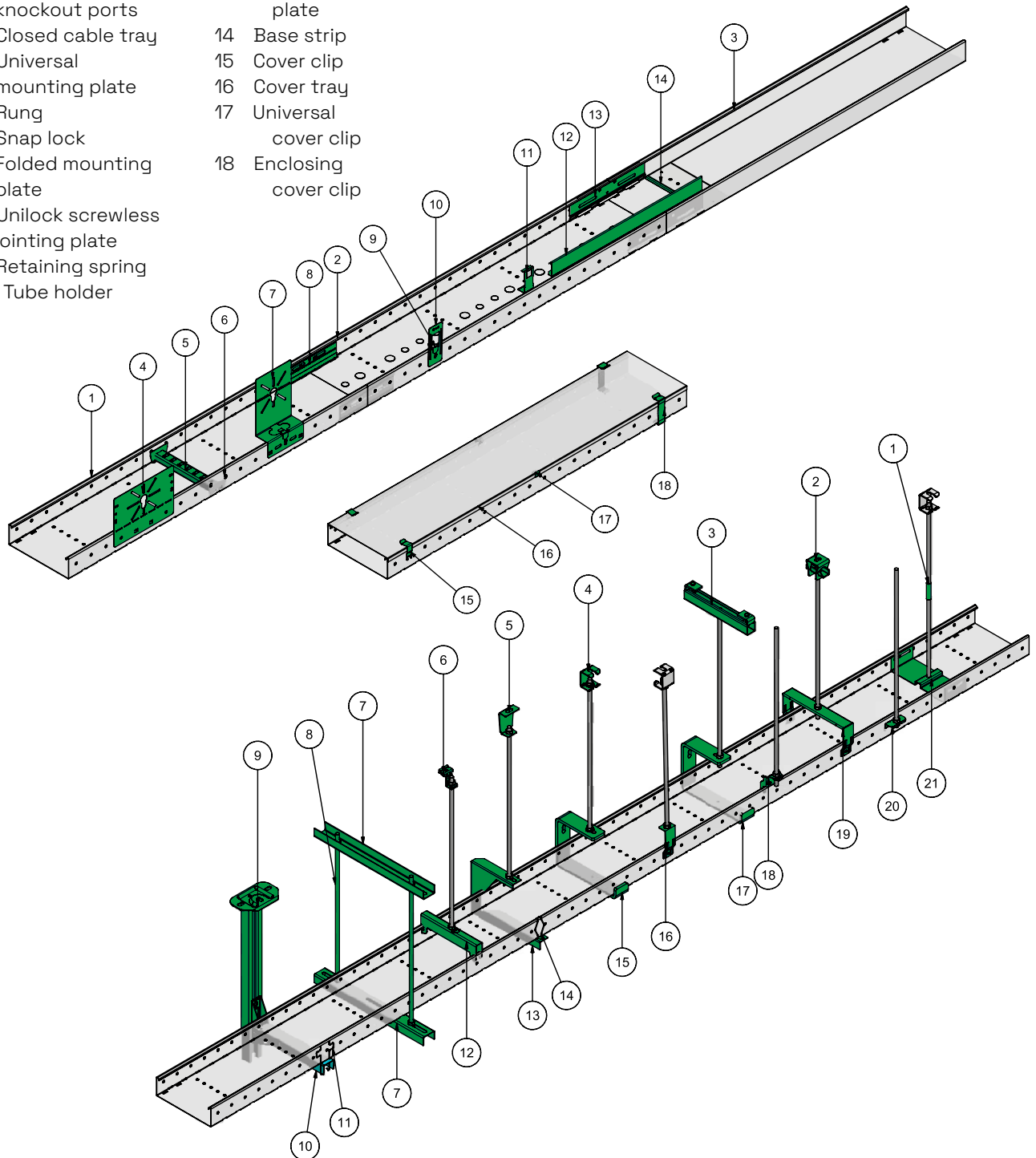
- 1A Fully enclosed cable tray
- 1B Cable tray with side perforation
- 1C Cable tray with side perforation and knockout holes
- 1D Cable tray with side perforation and profiled base



- | | |
|-----------------------|-----------------------|
| 1 Cable tray | 7 Vertical wall piece |
| 2 X-piece | 8 Riser |
| 3 Dropper | 9 End piece |
| 4 Bend | 10 T-piece |
| 5 Vertical wall piece | 11 Jointing plate |
| 6 Reducer | 12 Angle end piece |

General information

- | | |
|------------------------------------|-------------------------|
| 1 Cable tray with side perforation | 11 Latch |
| 2 Cable tray with knockout ports | 12 Divider |
| 3 Closed cable tray | 13 LOK jointing plate |
| 4 Universal mounting plate | 14 Base strip |
| 5 Rung | 15 Cover clip |
| 6 Snap lock | 16 Cover tray |
| 7 Folded mounting plate | 17 Universal cover clip |
| 8 Unilock screwless jointing plate | 18 Enclosing cover clip |
| 9 Retaining spring | |
| 10 Tube holder | |



- | | | | | |
|------------------------------|------------------------------|-----------------------------|---------------------------------------|--------------------------------------|
| 1 Coupling sleeve | 5 Ceiling bracket | 10 Support beam | 15 Light C-bracket | tray |
| 2 Adjustable ceiling bracket | 6 Truss clamp | 11 Spring clip | 16 Single-sided tray bracket | 20 Tray bracket for side perforation |
| 3 Profile with anchor plate | 7 Support profile | 12 Overhanging tray bracket | 17 Heavy C-bracket | 21 Internal tray bracket |
| 4 Open ceiling bracket | 8 M10 hanger rod | 13 External tray bracket | 18 Claw | |
| | 9 Hanging bracket, single 2F | 14 Spring clip | 19 Overhanging tray bracket for cover | |

Length material

General

This product group comprises materials supplied in standard lengths and interconnected by means of jointing plates.

Cable trays

The trays are available in a variety of basic designs: with side perforation, profiled base, knockout ports, or fully enclosed, depending on your requirements. The most common length is 3 m, though for certain applications longer lengths may be more convenient. The table on the following page will help you make the most suitable choice. Stago cable trays KG 281 are supplied as standard in sendzimir galvanised finish or in an external painted finish in RAL 1013, RAL 9010, or RAL 9016. On request, any other desired colour can be supplied.

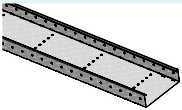
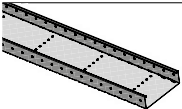
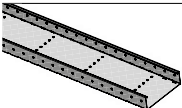
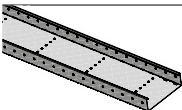
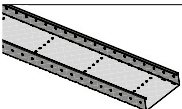
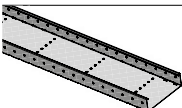
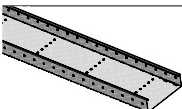
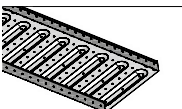
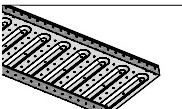
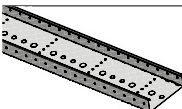
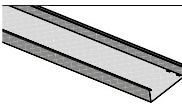
Dividers

Cable trays can easily be subdivided into compartments by fitting screwless dividers. These dividers are always supplied in 3 m lengths and can be easily shortened.

Covers

There are several reasons for fitting cover trays to cable trays. They provide better protection for the cabling, shielding it from dust and/or UV radiation. The standard length is always 2 m, and they can be attached to the trays using a variety of retaining springs.

Length material

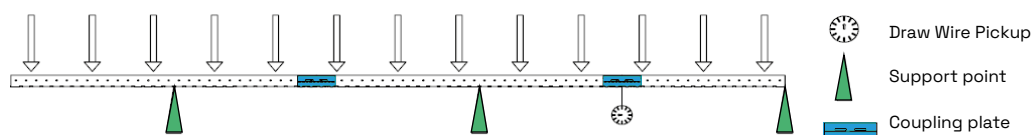
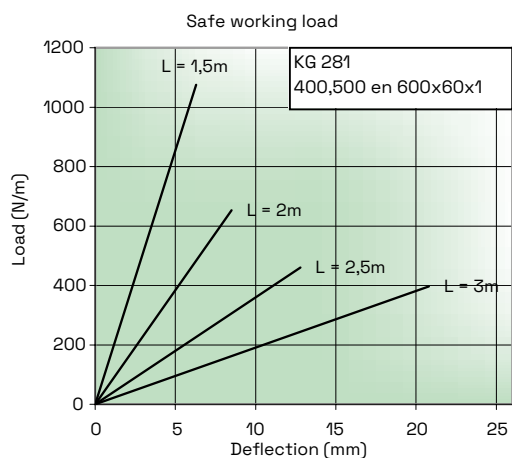
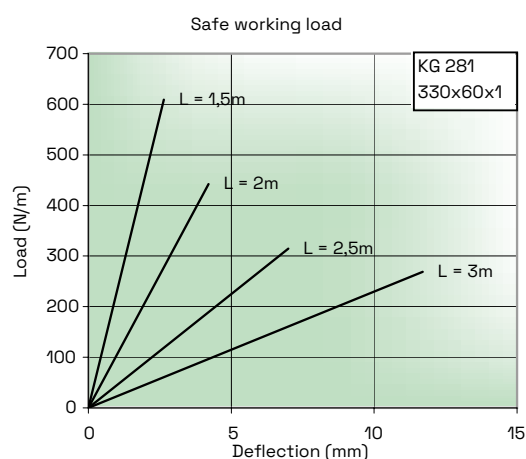
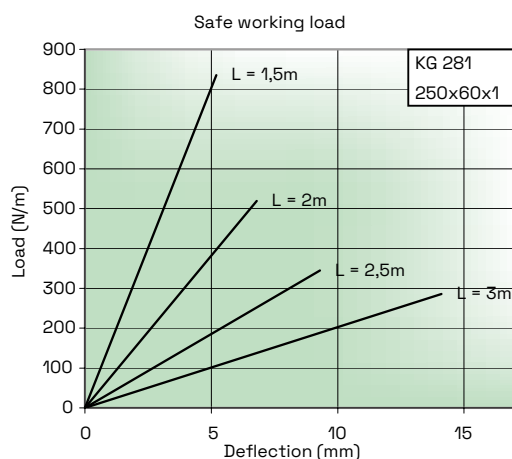
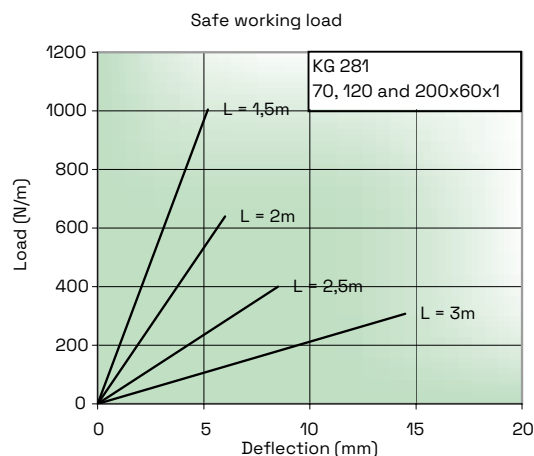
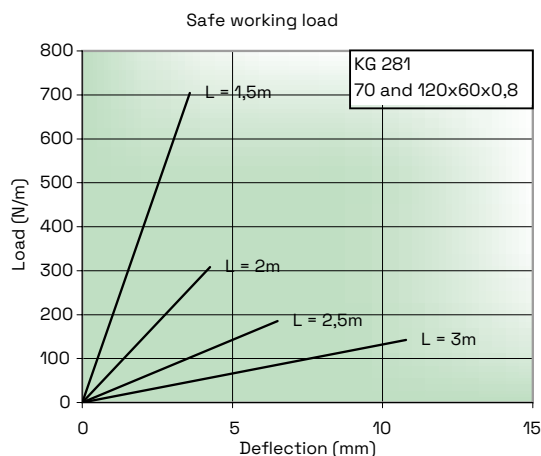
Selection table cable tray KG 281										
Image	Execution	Type	70	120	200	250	330	400	500	600
	PG	Side perforation D=0,8 mm, L=3m	o	o	o	o				
	PG	Side perforation D=1mm, L=3m	o	o	o	o	o			
	PC	Side perforation D=1mm, L=3m	o	o	o	o	o			
	PG	Side perforation D=1mm, L=4,5m	o	o	o	o	o			
	PG	Side perforation D=1mm, L=5m	o	o	o	o	o			
	PG	Side perforation D=1mm, L=6m	o	o	o	o	o			
	PG	Side perforation D=1mm, L=6,4m	o	o	o	o	o			
	PG	Side perforation + profiled bottom D=1mm, L=3m						o	o	o
	PC	Side perforation + profiled bottom D=1mm, L=3m						o	o	o
	PG	Side perforation + knockout holes D=1mm, L=3m	o	o	o	o				
	PG	Unperforated D=1mm, L=3m	o	o	o	o	o			
Other heights and lengths on request			PC = RAL1013, RAL9010 or RAL9016, other colours on request							

Tips

- At the tray ends, slots have been provided in the base for the screwless jointing plate. When cutting trays to length, ensure that the cut ends are always inserted into a fitting. This ensures the coupling slots remain available.
- The slotted holes in the base corners are very useful when cutting out the tray for a branch piece. A jigsaw blade can easily be inserted there as the starting point for the cut.
- The slotted holes in the base corners can also serve perfectly as fixing holes for cable ties. KG 281 trays in 1 mm thickness are certified for functional integrity under fire conditions in accordance with DIN 4102/12 and NPR 2576, class E90. For details on functional integrity, see the relevant chapter in this catalogue.

Length material

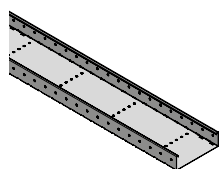
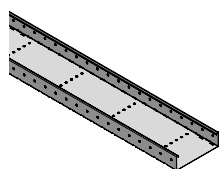
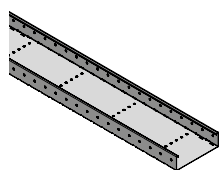
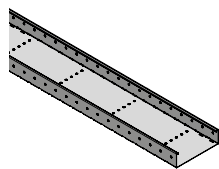
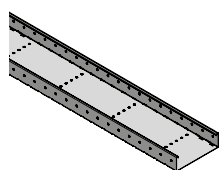
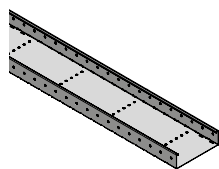
Load charts for Stago cable tray KG 281, width 70 - 600 mm



Measuring setup according to IEC 61537, type 1, coupling plates midway between 2 support points in the end span, safety factor 1.7

Length material


Length material



Type	Surface treatment	Length C (mm)	Dimension AxB (mm)	 Kg / piece	Article No.
Cable tray with side perforation, D=0,8mm, L=3m					
Can be compartmentalized with a separation wall. Can be connected with Unilock or screw-on coupling plates.					
CT side perforation 70/3000/0,8	PG	3000	60x70	1,343	CSU08601202
CT side perforation 120/3000/0,8	PG	3000	60x120	1,664	CSU08602202
CT side perforation 200/3000/0,8	PG	3000	60x200	2,141	CSU08603202
CT side perforation 250/3000/0,8	PG	3000	60x250	2,455	CSU08604202
Cable tray with side perforation, D=1mm, L=3m					
Can be compartmentalized with a separation wall. Can be connected with Unilock or screw-on coupling plates.					
CT side perforation 70/3000/1	PG	3000	60x70	1,665	CSU08601204
CT side perforation 120/3000/1	PG	3000	60x120	2,060	CSU08602204
CT side perforation 200/3000/1	PG	3000	60x200	2,700	CSU08603204
CT side perforation 250/3000/1	PG	3000	60x250	3,095	CSU08604204
CT side perforation 330/3000/1	PG	3000	60x330	3,735	CSU08605204
CT side perforation 400/3000/1	PG	3000	60x400	4,335	CSU08606204
CT side perforation 70/3000/1/R1013	PG + RAL1013	3000	60x70	1,665	CSU08601214
CT side perforation 120/3000/1/R1013	PG + RAL1013	3000	60x120	2,060	CSU08602214
CT side perforation 200/3000/1/R1013	PG + RAL1013	3000	60x200	2,700	CSU08603214
CT side perforation 250/3000/1/R1013	PG + RAL1013	3000	60x250	3,095	CSU08604214
CT side perforation 330/3000/1/R1013	PG + RAL1013	3000	60x330	3,735	CSU08605214
CT side perforation 400/3000/1/R1013	PG + RAL1013	3000	60x400	4,335	CSU08606214
Cable tray with side perforation, D=1mm, L=4,5m					
Can be compartmentalized with a separation wall. Can be connected with Unilock or screw-on coupling plates.					
CT side perforation 70/4500/1	PG	4500	60x70	1,665	CSU08601604
CT side perforation 120/4500/1	PG	4500	60x120	2,060	CSU08602604
CT side perforation 200/4500/1	PG	4500	60x200	2,700	CSU08603604
CT side perforation 250/4500/1	PG	4500	60x250	3,095	CSU08604604
CT side perforation 330/4500/1	PG	4500	60x330	3,735	CSU08605604
Cable tray with side perforation, D=1mm, L=5m					
Can be compartmentalized with a separation wall. Can be connected with Unilock or screw-on coupling plates.					
CT side perforation 70/5000/1	PG	5000	60x70	1,665	CSU08601504
CT side perforation 120/5000/1	PG	5000	60x120	2,060	CSU08602504
CT side perforation 200/5000/1	PG	5000	60x200	2,700	CSU08603504
CT side perforation 250/5000/1	PG	5000	60x250	3,095	CSU08604504
CT side perforation 330/5000/1	PG	5000	60x330	3,735	CSU08605504
Cable tray with side perforation, D=1mm, L=6m					
Can be compartmentalized with a separation wall. Can be connected with Unilock or screw-on coupling plates.					
CT side perforation 70/6000/1	PG	6000	60x70	1,665	CSU08601704
CT side perforation 120/6000/1	PG	6000	60x120	2,060	CSU08602704
CT side perforation 200/6000/1	PG	6000	60x200	2,700	CSU08603704
CT side perforation 250/6000/1	PG	6000	60x250	3,095	CSU08604704
CT side perforation 330/6000/1	PG	6000	60x330	3,735	CSU08605704
Cable tray with side perforation, D=1mm, L=6,4m					
Can be compartmentalized with a separation wall. Can be connected with Unilock or screw-on coupling plates.					
CT side perforation 70/6400/1	PG	6400	60x70	1,665	CSU08601804
CT side perforation 120/6400/1	PG	6400	60x120	2,060	CSU08602804
CT side perforation 200/6400/1	PG	6400	60x200	2,700	CSU08603804
CT side perforation 250/6400/1	PG	6400	60x250	3,095	CSU08604804
CT side perforation 330/6400/1	PG	6400	60x330	3,735	CSU08605804

Length material

Length material

Type	Surface treatment	Length C (mm)	Dimension AxB (mm)		Kg / piece	Article No.
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Cable tray with side perforation and profiled bottom, D=1mm, L=3m

Highly stable thanks to additional bottom profiling. Can be compartmentalized with a separation wall. Can be connected with Unilock or screw-on connecting plates.

KG zijp./prof. 400/3000/1	PG	3000	60x400		4,335	CSU08606504
KG zijp./prof. 500/3000/1	PG	3000	60x500		5,140	CSU08607504
KG zijp./prof. 600/3000/1	PG	3000	60x600		5,945	CSU08608504
KG zijp./prof. 400/3000/1 R1013	PG + RAL1013	3000	60x400		4,335	CSU08606514
KG zijp./prof. 500/3000/1 R1013	PG + RAL1013	3000	60x500		5,140	CSU08607514
KG zijp./prof. 600/3000/1 R1013	PG + RAL1013	3000	60x600		5,945	CSU08608514

Cable tray with side perforation and knockout holes, D=1mm, L=3m

Onder meer for lijnverlichting met doorvoerbedrading. Forzien van uitbreekpoorten 17 mm and 23 mm for doorvoer bekabeling m.b.v. pakkingbussen. Te compartimenteren met Separation wall. Onderling te verbinden met Unilock of schroefbare koppelplaten.

KG zijp./uitbr. 70/3000/1	PG	3000	60x70		1,665	CSU08601004
KG zijp./uitbr. 120/3000/1	PG	3000	60x120		2,060	CSU08602004
KG zijp./uitbr. 200/3000/1	PG	3000	60x200		2,700	CSU08603004
KG zijp./uitbr. 250/3000/1	PG	3000	60x250		3,095	CSU08604004
KG zijp./uitbr. 330/3000/1	PG	3000	60x330		3,735	CSU08605004

Cable tray without perforation, D=1mm, L=3m

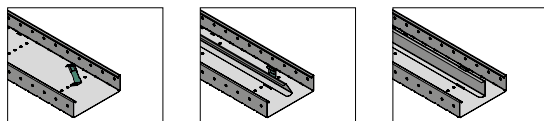
Onder meer for architectonische toepassingen. Volledig gesloten Cable tray, alleen slobgaten t.b.v. schroefloze koppelplaat zijn voorzien. Onderling te verbinden met Unilock koppelplaten.

KG gesloten 70/3000/1	PG	3000	60x70		1,665	CSU08601404
KG gesloten 120/3000/1	PG	3000	60x120		2,060	CSU08602404
KG gesloten 200/3000/1	PG	3000	60x200		2,700	CSU08603404
KG gesloten 250/3000/1	PG	3000	60x250		3,095	CSU08604404
KG gesloten 330/3000/1	PG	3000	60x330		3,735	CSU08605404

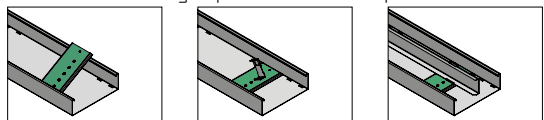
Separation wall, D=1mm, L=2995mm

For creating separate compartments in cable ducts and for tidy cabling. Screwless mounting in all horizontal and vertical cable ducts KG 281 using the CSU08870500 clamp (1 piece/meter). In a fully enclosed cable duct with the CSU0887xx00 mounting plate and the CSU08870500 clamp (1 piece/meter).

Separation wall	PG	2995	60x19		0,505	CSU08870100
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Screwless mounting of partition with clamp CSU08870500 in cable tray with side perforation.



Screwless mounting of partition with clamp CSU08870500 and mounting plate CSU0887xx00 in closed cable tray.

Separation wall for rung, D=1mm, L=2995mm


For creating separate compartments in vertically mounted cable trays, which are equipped with clip-in rungs and allow for clear cabling. The separation wall is attached to rung CSU0815xx00 with slide nut CSU14500109 and mounting screw M6x10 0846.20.00 (1 piece/meter).

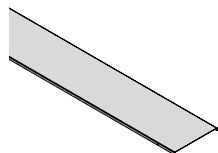
Separation wall with rung	PG	2995	41x19		0,450	CSU14160000
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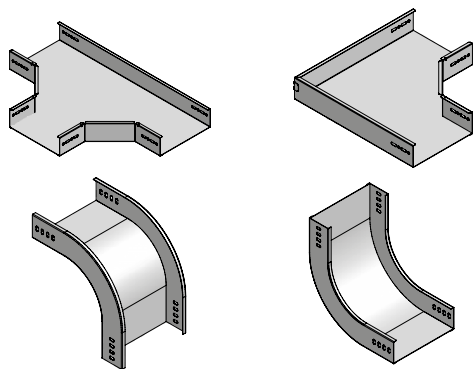
Length material

Length material

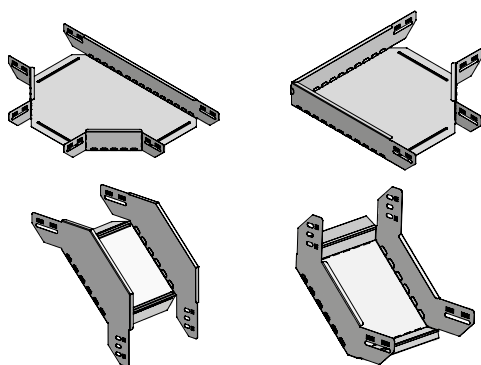
Type	Surface treatment	Length C (mm)	Dimension AxB (mm) 	Kg / piece	Article No.
Afdekgoet for Cable tray, D=0,8/1mm, L=2m					
For het beschermen van bekabeling and ter voorkoming van stofophoping in kabelgoten. Schroefloze bevestiging op alle types Cable tray KG 281 met diverse soorten dekselklemmen CSU0885xx00 of dekselveer CSU76240000.					
Afdekgoet 70/0,8	PG	2000	11x70	0,660	CSU08161003
Afdekgoet 120/0,8	PG	2000	11x120	1,300	CSU08162003
Afdekgoet 200/0,8	PG	2000	11x200	1,615	CSU08163003
Afdekgoet 250/0,8	PG	2000	11x250	1,980	CSU08164003
Afdekgoet 330/1	PG	2000	11x330	2,845	CSU08165004
Afdekgoet 400/1	PG	2000	11x400	3,415	CSU08166004
Afdekgoet 500/1	PG	2000	11x500	4,225	CSU08167004
Afdekgoet 600/1	PG	2000	11x600	5,040	CSU08168004
Afdekgoet 70/0,8 R1013	PG + RAL1013	2000	11x70	0,660	CSU08161013
Afdekgoet 120/0,8 R1013	PG + RAL1013	2000	11x120	1,300	CSU08162013
Afdekgoet 200/0,8 R1013	PG + RAL1013	2000	11x200	1,615	CSU08163013
Afdekgoet 250/0,8 R1013	PG + RAL1013	2000	11x250	1,980	CSU08164013
Afdekgoet 330/1 R1013	PG + RAL1013	2000	11x330	2,845	CSU08165014
Afdekgoet 400/1 R1013	PG + RAL1013	2000	11x400	3,415	CSU08166014
Afdekgoet 500/1 R1013	PG + RAL1013	2000	11x500	4,225	CSU08167014
Afdekgoet 600/1 R1013	PG + RAL1013	2000	11x600	5,040	CSU08168014



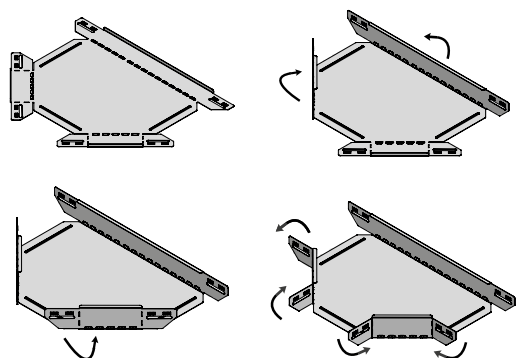
Accessories



Examples of Fixed Accessories



Examples of Flat Fittings



Shaping Flat Fittings

General

Wibe Group is the only manufacturer of cable tray systems that offers installers two complete series of accessories. Wibe Group provides this service because each series of accessories has a number of unique but distinct advantages. With a well-considered choice, the installer can select the accessories that best suit their preferences.

Fixed accessories

These accessories are ready to use. They “enclose” the cable tray, which means the length material does not need to be cut as precisely, and a stable connection is guaranteed. These accessories are connected to the cable tray using screwless fastening springs (art. no. CSU08854000) or fastening screws M6x10.

Advantages of fixed accessories:

- Ready to install
- Structurally stable
- Industrial in nature
- Flat Fittings

These accessories are supplied in a flat form and must be shaped into their final form by the installer.

This offers a significant financial advantage: flat fittings are up to 20% cheaper than equivalent fixed accessories. Additionally, they take up very little space during transport and storage: flat fittings are extremely compact.

Shaping these accessories is very straightforward. First, the side walls are folded upright. The tabs along the fold line serve as “stops.” Then, the connection tabs are folded in the direction of the cable tray.

Flat fittings can be quickly and easily connected to the cable tray using coupling springs CSU08856050. Of course, it is also possible to use fastening screws M6x10 to make the connection.

Tip:

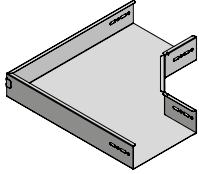
The side parts should be folded in such a way that the label with product identification is always on the inside.

Advantages of flat fittings:

- Extremely compact for transport and storage
- Smoothly rounded cable guiding surfaces
- Up to 20% cheaper than fixed accessories

Fixed accessories

Fixed Accessories

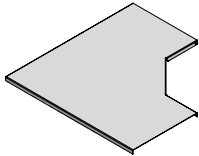
**Type****Surface treatment****Breedte****Dimension AxB (mm)****Kg / piece****Article No.****Fixed bend 90°**

For creating 90° horizontal bends. Connect to a cable duct with quick-release Connector spring CSU08854000 or with M6x10 mounting screw.

Fixed bend 70x60	PG	70	64x273x273	0,910	CSU08611009
Fixed bend 120x60	PG	120	64x323x323	1,141	CSU08612009
Fixed bend 200x60	PG	200	64x403x403	1,720	CSU08613009
Fixed bend 250x60	PG	250	64x453x453	2,111	CSU08614009
Fixed bend 330x60	PG	330	64x533x533	2,877	CSU08615009
Fixed bend 70x60 R1013	PG + RAL1013	70	64x273x273	0,910	CSU08611019
Fixed bend 120x60 R1013	PG + RAL1013	120	64x323x323	1,141	CSU08612019
Fixed bend 200x60 R1013	PG + RAL1013	200	64x403x403	1,720	CSU08613019
Fixed bend 250x60 R1013	PG + RAL1013	250	64x453x453	2,111	CSU08614019
Fixed bend 330x60 R1013	PG + RAL1013	330	64x533x533	2,877	CSU08615019

Fixed cover bend 90°

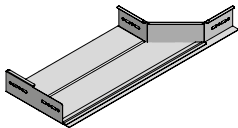
To protect cables and prevent dust buildup. Attaches to a fixed-bend with the Universal cover clip CSU08855000 or Cover clamp captive CSU76240000.



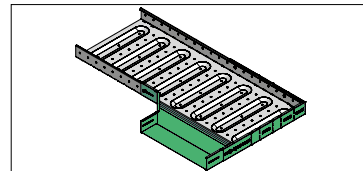
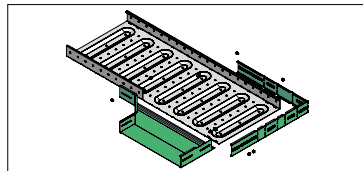
Fixed cover bend 70	PG	70	11x275x275	0,360	CSU08511009
Fixed cover bend 120	PG	120	11x325x325	0,614	CSU08512009
Fixed cover bend 200	PG	200	11x405x405	1,121	CSU08513009
Fixed cover bend 250	PG	250	11x455x455	1,401	CSU08514009
Fixed cover bend 330	PG	330	11x535x535	2,225	CSU08515009
Fixed cover bend 70 R1013	PG + RAL1013	70	11x275x275	0,360	CSU08511019
Fixed cover bend 120 R1013	PG + RAL1013	120	11x325x325	0,614	CSU08512019
Fixed cover bend 200 R1013	PG + RAL1013	200	11x405x405	1,121	CSU08513019
Fixed cover bend 250 R1013	PG + RAL1013	250	11x455x455	1,401	CSU08514019
Fixed cover bend 330 R1013	PG + RAL1013	330	11x535x535	2,225	CSU08515019

Fixed branching piece 90° left

For creating horizontal 90° bends on wider cable trays. Combined with the CSU089600xx coupling/reducer, it forms a complete corner connection. Connect to the cable tray with the CSU08854000 quick-release connector spring or the M6x10 mounting screw.



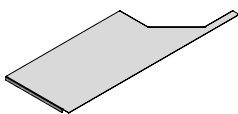
Fixed branching piece 90° left 400x60	PG	400	64x223x603	1,187	CSU08716209
Fixed branching piece 90° left 500x60	PG	500	64x223x703	1,387	CSU08717209
Fixed branching piece 90° left 600x60	PG	600	64x223x803	1,575	CSU08718209
Fixed branching piece 90° left 400x60 R1013	PG + RAL1013	400	64x223x603	1,187	CSU08716219
Fixed branching piece 90° left 500x60 R1013	PG + RAL1013	500	64x223x703	1,387	CSU08717219
Fixed branching piece 90° left 600x60 R1013	PG + RAL1013	600	64x223x803	1,575	CSU08718219



Fixed branching piece 90° left with coupling/reducer CSU089600xx

Fixed cover branching piece 90° left

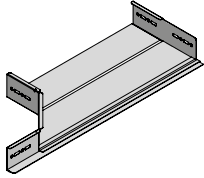
To protect cables and prevent dust buildup. Attaches to the left corner attachment with universal cover clamp CSU08855000 or cover spring CSU76240000.



Fixed cover branching piece 90° left 400	PG	400	11x223x605	0,816	CSU08586209
Fixed cover branching piece 90° left 500	PG	500	11x223x705	0,975	CSU08587209
Fixed cover branching piece 90° left 600	PG	600	11x223x805	1,160	CSU08588209
Fixed cover branching piece 90° left 400 R1013	PG + RAL1013	400	11x223x605	1,187	CSU08586219
Fixed cover branching piece 90° left 500 R1013	PG + RAL1013	500	11x223x705	1,387	CSU08587219
Fixed cover branching piece 90° left 600 R1013	PG + RAL1013	600	11x223x805	1,575	CSU08588219

Fixed accessories

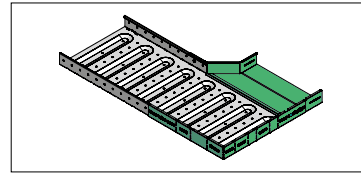
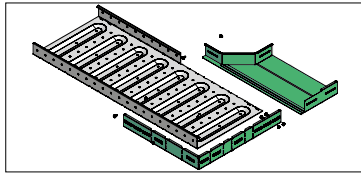
Fixed accessories

**Type****Surface treatment****Breedte****Dimension AxB (mm)****Kg / piece****Article No.****Fixed branching piece 90° right**

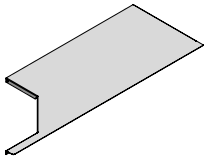
For creating horizontal 90° bends on wider cable trays. Combined with the CSU089600xx coupling/reducer, it forms a complete corner connection. Connect to the cable tray with the CSU08854000 quick-release connector spring or the M6x10 mounting screw.

Fixed branching piece right 400x60	PG	400	64x223x603	1,187	CSU08716409
Fixed branching piece right 500x60	PG	500	64x223x703	1,387	CSU08717409
Fixed branching piece right 600x60	PG	600	64x223x803	1,575	CSU08718409

Fixed branching piece right 400x60 R1013	PG + RAL1013	400	64x223x603	1,187	CSU08716419
Fixed branching piece right 500x60 R1013	PG + RAL1013	500	64x223x703	1,387	CSU08717419
Fixed branching piece right 600x60 R1013	PG + RAL1013	600	64x223x803	1,575	CSU08718419



Fixed branching piece 90° right with coupling/reducer CSU089600xx

**Fixed cover branching piece 90° right**

To protect cables and prevent dust buildup. Attaches to the right-hand corner attachment with universal cover clip CSU08855000 or Cover clamp captive CSU76240000.

Fixed cover branching piece right 400	PG	400	11x223x605	0,816	CSU08586409
Fixed cover branching piece right 500	PG	500	11x223x705	0,975	CSU08587409
Fixed cover branching piece right 600	PG	600	11x223x805	1,160	CSU08588409

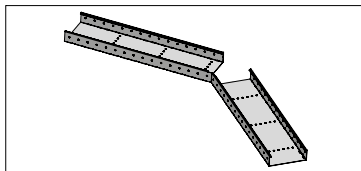
Fixed cover branching piece right 400 R1013	PG + RAL1013	400	11x223x605	1,187	CSU08586419
Fixed cover branching piece right 500 R1013	PG + RAL1013	500	11x223x705	1,387	CSU08587419
Fixed cover branching piece right 600 R1013	PG + RAL1013	600	11x223x805	1,575	CSU08588419

Fixed adjustable bend

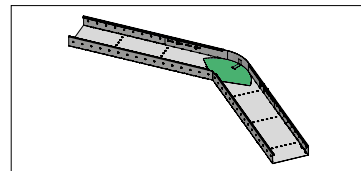
For creating horizontal bends at variable angles. Adjustment range: 45°-90°. Connects to cable ducts with quick-release Connector spring CSU08854000 or M6x10 mounting screw.

Fixed adjustable bend 70x60	PG	70	56x64x450	0,195	CSU08731009
Fixed adjustable bend 120x60	PG	120	56x114x450	0,348	CSU08732009
Fixed adjustable bend 200x60	PG	200	56x194x850	0,742	CSU08733009
Fixed adjustable bend 250x60	PG	250	56x244x850	0,884	CSU08734009

Fixed adjustable bend 70x60 R1013	PG + RAL1013	70	56x64x450	0,195	CSU08731019
Fixed adjustable bend 120x60 R1013	PG + RAL1013	120	56x114x450	0,348	CSU08732019
Fixed adjustable bend 200x60 R1013	PG + RAL1013	200	56x194x850	0,742	CSU08733019
Fixed adjustable bend 250x60 R1013	PG + RAL1013	250	56x244x850	0,884	CSU08734019



Make a V-shaped cutout at the bend



Place the Fixed adjustable bend on the inside of the cable tray.

Fixed accessories

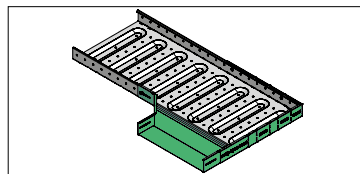
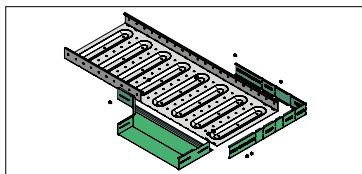
Fixed accessories

Type	Surface treatment	Breedte	Dimension AxB (mm)	Kg / piece	Article No.
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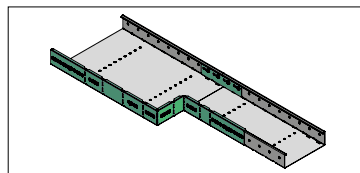
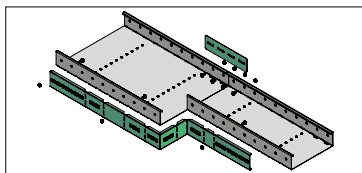
Stop end/universal reducer piece

Combined with a left or right branching piece, it forms a complete corner joint. It can also be used as a symmetrical or asymmetrical reducer. See the installation instructions for more details. Reducing is also possible with adapters; see elsewhere in this chapter.

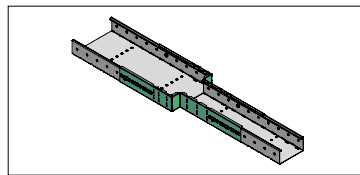
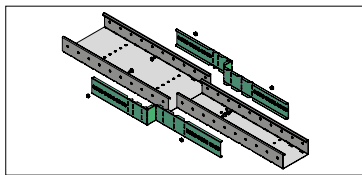
Stop end/universal reducer piece 605	PG	70-330	64x10x605	0,325	CSU08940000
Stop end/universal reducer piece 957	PG	70-600	64x10x957	0,455	CSU08960000
Stop end/universal reducer piece 605 R1013	PG + RAL1013	70-330	64x10x605	0,325	CSU08940010
Stop end/universal reducer piece 957 R1013	PG + RAL1013	70-600	64x10x957	0,455	CSU08960010



Complete corner connection Stop end/universal reducer piece CSU089600xx with branching piece 90° left or right



Asymmetric reduction with Stop end/universal reducer piece CSU089600xx and Side Joint CSU08010000



Symmetrical reduction with 2 Stop end/universal reducer pieces CSU089400xx

Fixed T-piece

For creating right-angled branches of equal width. Attach to the cable duct with quick-release Connector spring CSU08854000 or with M6x10 mounting screw.

Fixed T-piece 70x60	PG	70	64x273x473	1,050	CSU08621009
Fixed T-piece 120x60	PG	120	64x323x523	1,435	CSU08622009
Fixed T-piece 200x60	PG	200	64x403x603	2,129	CSU08623009
Fixed T-piece 250x60	PG	250	64x453x653	2,589	CSU08624009
Fixed T-piece 330x60	PG	330	64x533x733	3,325	CSU08625009
Fixed T-piece 70x60 R1013	PG + RAL1013	70	64x273x473	1,050	CSU08621019
Fixed T-piece 120x60 R1013	PG + RAL1013	120	64x323x523	1,435	CSU08622019
Fixed T-piece 200x60 R1013	PG + RAL1013	200	65x403x603	2,129	CSU08623019
Fixed T-piece 250x60 R1013	PG + RAL1013	250	64x453x653	2,589	CSU08624019
Fixed T-piece 330x60 R1013	PG + RAL1013	330	64x533x733	3,325	CSU08625019

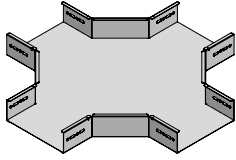
Fixed cover T-piece

To protect cables and prevent dust buildup. Attaches to a T-piece with Universal cover clip CSU08855000 or Cover clamp captive CSU76240000.

Fixed cover T-piece 70	PG	70	11x273x473	0,555	CSU08521009
Fixed cover T-piece 120	PG	120	11x323x523	0,842	CSU08522009
Fixed cover T-piece 200	PG	200	11x403x603	1,404	CSU08523009
Fixed cover T-piece 250	PG	250	11x453x653	1,892	CSU08524009
Fixed cover T-piece 330	PG	330	11x533x733	2,497	CSU08525009
Fixed cover T-piece 70 R1013	PG + RAL1013	70	11x273x473	0,555	CSU08521019
Fixed cover T-piece 120 R1013	PG + RAL1013	120	11x323x523	0,842	CSU08522019
Fixed cover T-piece 200 R1013	PG + RAL1013	200	11x403x603	1,404	CSU08523019
Fixed cover T-piece 250 R1013	PG + RAL1013	250	11x453x653	1,892	CSU08524019
Fixed cover T-piece 330 R1013	PG + RAL1013	330	11x533x733	2,497	CSU08525019

Fixed accessories

Fixed accessories

**Type****Surface treatment****Breedte****Dimension AxB (mm)****Kg /piece****Article No.****Fixed X-piece**

For creating crossings of equal width. Connect to cable duct with quick-release Connector spring CSU08854000 or with M6x10 mounting screw.

Fixed X-piece 70x60	PG	70	64x473x473	1,451	CSU08631009
Fixed X-piece 120x60	PG	120	64x523x523	1,861	CSU08632009
Fixed X-piece 200x60	PG	200	64x603x603	2,547	CSU08633009
Fixed X-piece 250x60	PG	250	64x653x653	3,081	CSU08634009
Fixed X-piece 330x60	PG	330	64x733x733	4,000	CSU08635009

Fixed X-piece 70x60 R1013	PG + RAL1013	70	64x473x473	1,451	CSU08631019
Fixed X-piece 120x60 R1013	PG + RAL1013	120	64x523x523	1,861	CSU08632019
Fixed X-piece 200x60 R1013	PG + RAL1013	200	64x603x603	2,547	CSU08633019
Fixed X-piece 250x60 R1013	PG + RAL1013	250	64x653x653	3,081	CSU08634019
Fixed X-piece 330x60 R1013	PG + RAL1013	330	64x733x733	4,000	CSU08635019

Fixed cover X-piece

To protect cables and prevent dust buildup. Attach to the X-piece with Universal cover clip CSU08855000 or Cover clamp captive CSU76240000.

Fixed cover X-piece 70x60	PG	70	11x473x473	0,761	CSU08531009
Fixed cover X-piece 120x60	PG	120	11x523x523	1,167	CSU08532009
Fixed cover X-piece 200x60	PG	200	11x603x603	1,906	CSU08533009
Fixed cover X-piece 250x60	PG	250	11x653x653	2,411	CSU08534009
Fixed cover X-piece 330x60	PG	330	11x733x733	3,300	CSU08535009

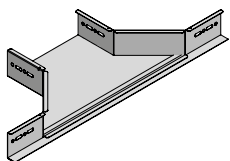
Fixed cover X-piece 70x60 R1013	PG + RAL1013	70	11x473x473	0,761	CSU08531019
Fixed cover X-piece 120x60 R1013	PG + RAL1013	120	11x523x523	1,167	CSU08532019
Fixed cover X-piece 200x60 R1013	PG + RAL1013	200	11x603x603	1,906	CSU08533019
Fixed cover X-piece 250x60 R1013	PG + RAL1013	250	11x653x653	2,411	CSU08534019
Fixed cover X-piece 330x60 R1013	PG + RAL1013	330	11x733x733	3,300	CSU08535019

Fixed branching piece

For creating right-angled branches of unequal width. Cut out the cable duct on-site. Attach to the cable duct with quick-release Connector spring CSU08854000 or M6x10 mounting screw.

Fixed branching piece 70x60	PG	70	64x473x210	0,747	CSU08711009
Fixed branching piece 120x60	PG	120	64x523x210	0,838	CSU08712009
Fixed branching piece 200x60	PG	200	64x603x210	0,984	CSU08713009
Fixed branching piece 250x60	PG	250	64x653x210	1,097	CSU08714009
Fixed branching piece 330x60	PG	330	64x733x210	1,212	CSU08715009
Fixed branching piece 400x60	PG	400	64x803x210	1,398	CSU08716009
Fixed branching piece 500x60	PG	500	64x903x210	1,572	CSU08717009
Fixed branching piece 600x60	PG	600	64x1003x210	1,767	CSU08718009

Fixed branching piece 70x60 R1013	PG + RAL1013	70	64x473x210	0,747	CSU08711019
Fixed branching piece 120x60 R1013	PG + RAL1013	120	64x523x210	0,838	CSU08712019
Fixed branching piece 200x60 R1013	PG + RAL1013	200	64x603x210	0,984	CSU08713019
Fixed branching piece 250x60 R1013	PG + RAL1013	250	64x653x210	1,097	CSU08714019
Fixed branching piece 330x60 R1013	PG + RAL1013	330	64x733x210	1,212	CSU08715019
Fixed branching piece 400x60 R1013	PG + RAL1013	400	64x803x210	1,398	CSU08716019
Fixed branching piece 500x60 R1013	PG + RAL1013	500	64x903x210	1,572	CSU08717019
Fixed branching piece 600x60 R1013	PG + RAL1013	600	64x1003x210	1,767	CSU08718019



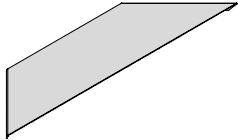
Fixed accessories

Fixed accessories

Type	Surface treatment	Breedte	Dimension AxB (mm)	Kg /piece	Article No.
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Fixed cover branching piece

To protect cables and prevent dust buildup. Attaches to an attachment with the Universal cover clip CSU08855000 or Cover clamp captive CSU76240000.

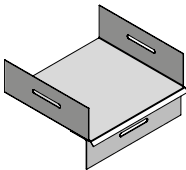


Fixed cover branching piece 70	PG	70	11x475x210	0,328	CSU08581009
Fixed cover branching piece 120	PG	120	11x525x210	0,410	CSU08582009
Fixed cover branching piece 200	PG	200	11x605x210	0,566	CSU08583009
Fixed cover branching piece 250	PG	250	11x655x210	0,639	CSU08584009
Fixed cover branching piece 330	PG	330	11x735x210	0,795	CSU08585009
Fixed cover branching piece 400	PG	400	11x805x210	0,896	CSU08586009
Fixed cover branching piece 500	PG	500	11x905x210	1,096	CSU08587009
Fixed cover branching piece 600	PG	600	11x1005x210	1,251	CSU08588009

Fixed cover branching piece 70 R1013	PG + RAL1013	70	11x475x210	0,328	CSU08581019
Fixed cover branching piece 120 R1013	PG + RAL1013	120	11x525x210	0,410	CSU08582019
Fixed cover branching piece 200 R1013	PG + RAL1013	200	11x605x210	0,566	CSU08583019
Fixed cover branching piece 250 R1013	PG + RAL1013	250	11x655x210	0,639	CSU08584019
Fixed cover branching piece 330 R1013	PG + RAL1013	330	11x735x210	0,795	CSU08585019
Fixed cover branching piece 400 R1013	PG + RAL1013	400	11x805x210	0,896	CSU08586019
Fixed cover branching piece 500 R1013	PG + RAL1013	500	11x905x210	1,096	CSU08587019
Fixed cover branching piece 600 R1013	PG + RAL1013	600	11x1005x210	1,251	CSU08588019

Fixed channel attachment

For creating right-angled branches on cable trays. Attach to the cable tray with an M6x10 mounting screw.

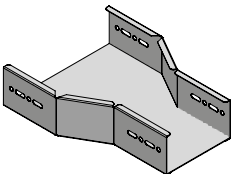


Fixed channel attachment 70	PG	70	116x72x180	0,326	CSU08741000
Fixed channel attachment 120	PG	120	116x122x180	0,439	CSU08742000
Fixed channel attachment 200	PG	200	116x202x180	0,621	CSU08743000
Fixed channel attachment 250	PG	250	116x252x180	0,676	CSU08744000

Fixed channel attachment 70 R1013	PG + RAL1013	70	116x72x180	0,326	CSU08741010
Fixed channel attachment 120 R1013	PG + RAL1013	120	116x122x180	0,439	CSU08742010
Fixed channel attachment 200 R1013	PG + RAL1013	200	116x202x180	0,621	CSU08743010
Fixed channel attachment 250 R1013	PG + RAL1013	250	116x252x180	0,676	CSU08744010

Fixed reducer piece

For symmetrically reducing cable ducts. Attach to the cable duct with quick-release Connector spring CSU08854000 or with M6x10 mounting screw. Reducers can also be assembled with couplings/reducers; see elsewhere in this chapter.

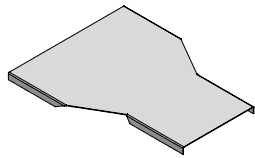


Fixed reducer piece 70-120x60	PG	70-120	64x123x269	0,381	CSU08222009
Fixed reducer piece 70-200x60	PG	70-200	64x203x269	0,585	CSU08223009
Fixed reducer piece 70-250x60	PG	70-250	64x253x269	0,725	CSU08224009
Fixed reducer piece 120-200x60	PG	120-200	64x203x269	0,530	CSU08233009
Fixed reducer piece 120-250x60	PG	120-250	64x253x269	0,829	CSU08234009
Fixed reducer piece 200-250x60	PG	200-250	64x253x269	0,720	CSU08244009

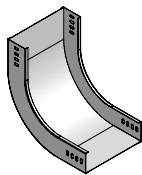
Fixed reducer piece 70-120x60 R1013	PG + RAL1013	70-120	64x123x269	0,381	CSU08222019
Fixed reducer piece 70-200x60 R1013	PG + RAL1013	70-200	64x203x269	0,585	CSU08223019
Fixed reducer piece 70-250x60 R1013	PG + RAL1013	70-250	64x253x269	0,725	CSU08224019
Fixed reducer piece 120-200x60 R1013	PG + RAL1013	120-200	64x203x269	0,530	CSU08233019
Fixed reducer piece 120-250x60 R1013	PG + RAL1013	120-250	64x253x269	0,829	CSU08234019
Fixed reducer piece 200-250x60 R1013	PG + RAL1013	200-250	64x253x269	0,720	CSU08244019

Fixed accessories

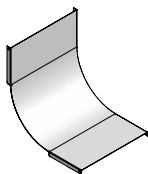
Fixed accessories



Type	Surface treatment	Breedte	Dimension AxB (mm)	Kg /piece	Article No.
Fixed cover reducer piece					
To protect cables and prevent dust buildup. Attach to the reducer piece using the Universal cover clip CSU08855000 or the Cover clamp captive CSU76240000.					
Fixed cover reducer piece 70-120	PG	70-120	11x126x269	0,216	CSU08322009
Fixed cover reducer piece 70-200	PG	70-200	11x206x269	0,359	CSU08323009
Fixed cover reducer piece 70-250	PG	70-250	11x256x269	0,400	CSU08324009
Fixed cover reducer piece 120-200	PG	120-200	11x206x269	0,463	CSU08333009
Fixed cover reducer piece 120-250	PG	120-250	11x256x269	0,467	CSU08334009
Fixed cover reducer piece 200-250	PG	200-250	11x256x269	0,500	CSU08344009
Fixed cover reducer piece 70-120 R1013	PG + RAL1013	70-120	11x126x269	0,216	CSU08322019
Fixed cover reducer piece 70-200 R1013	PG + RAL1013	70-200	11x206x269	0,359	CSU08323019
Fixed cover reducer piece 70-250 R1013	PG + RAL1013	70-250	11x256x269	0,400	CSU08324019
Fixed cover reducer piece 120-200 R1013	PG + RAL1013	120-200	11x206x269	0,463	CSU08333019
Fixed cover reducer piece 120-250 R1013	PG + RAL1013	120-250	11x256x269	0,467	CSU08334019
Fixed cover reducer piece 200-250 R1013	PG + RAL1013	200-250	11x256x269	0,500	CSU08344019



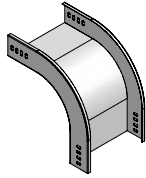
Fixed internal riser					
For creating vertical 90° riser bends. Attach to the cable tray with quick-release Connector spring CSU08854000 or with M6x10 mounting screw.					
Fixed internal riser 70x60	PG	70	283x73x283	0,799	CSU08641009
Fixed internal riser 120x60	PG	120	283x123x283	0,975	CSU08642009
Fixed internal riser 200x60	PG	200	283x203x283	1,288	CSU08643009
Fixed internal riser 250x60	PG	250	283x253x283	1,470	CSU08644009
Fixed internal riser 330x60	PG	330	283x333x283	1,735	CSU08645009
Fixed internal riser 400x60	PG	400	283x403x283	1,985	CSU08646109
Fixed internal riser 500x60	PG	500	283x503x283	2,296	CSU08647109
Fixed internal riser 600x60	PG	600	283x603x283	2,616	CSU08648109
Fixed internal riser 70x60 R1013	PG + RAL1013	70	283x73x283	0,799	CSU08641019
Fixed internal riser 120x60 R1013	PG + RAL1013	120	283x123x283	0,975	CSU08642019
Fixed internal riser 200x60 R1013	PG + RAL1013	200	283x203x283	1,288	CSU08643019
Fixed internal riser 250x60 R1013	PG + RAL1013	250	283x253x283	1,470	CSU08644019
Fixed internal riser 330x60 R1013	PG + RAL1013	330	283x333x283	1,735	CSU08645019
Fixed internal riser 400x60 R1013	PG + RAL1013	400	283x403x283	1,985	CSU08646119
Fixed internal riser 500x60 R1013	PG + RAL1013	500	283x503x283	2,296	CSU08647119
Fixed internal riser 600x60 R1013	PG + RAL1013	600	283x603x283	2,616	CSU08648119



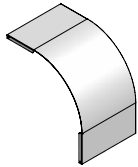
Fixed cover internal riser					
To protect cables and prevent dust buildup. Attach to the riser with Universal cover clip CSU08855000 or Cover clamp captive CSU76240000.					
Fixed cover internal riser 70	PG	70	219x75x219	0,314	CSU08541009
Fixed cover internal riser 120	PG	120	219x125x219	0,497	CSU08542009
Fixed cover internal riser 200	PG	200	219x205x219	0,703	CSU08543009
Fixed cover internal riser 250	PG	250	219x255x219	1,026	CSU08544009
Fixed cover internal riser 330	PG	330	219x335x219	1,230	CSU08545009
Fixed cover internal riser 400	PG	400	219x405x219	1,417	CSU08546109
Fixed cover internal riser 500	PG	500	219x505x219	1,931	CSU08547109
Fixed cover internal riser 600	PG	600	219x605x219	2,498	CSU08548109
Fixed cover internal riser 70 R1013	PG + RAL1013	70	219x75x219	0,314	CSU08541019
Fixed cover internal riser 120 R1013	PG + RAL1013	120	219x125x219	0,497	CSU08542019
Fixed cover internal riser 200 R1013	PG + RAL1013	200	219x205x219	0,703	CSU08543019
Fixed cover internal riser 250 R1013	PG + RAL1013	250	219x255x219	1,026	CSU08544019
Fixed cover internal riser 330 R1013	PG + RAL1013	330	219x335x219	1,230	CSU08545019
Fixed cover internal riser 400 R1013	PG + RAL1013	400	219x405x219	1,417	CSU08546119
Fixed cover internal riser 500 R1013	PG + RAL1013	500	219x505x219	1,931	CSU08547119
Fixed cover internal riser 600 R1013	PG + RAL1013	600	219x605x219	2,498	CSU08548119

Fixed accessories

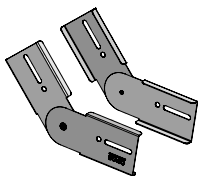
Fixed accessories



Type	Surface treatment	Breedte	Dimension AxB (mm)	Kg / piece	Article No.
Fixed external riser					
For creating vertical 90° angle bends. Attach to the cable tray with quick-release Connector spring CSU08854000 or with M6x10 mounting screw.					
Fixed external riser 70x60	PG	70	283x73x283	0,745	CSU08661009
Fixed external riser 120x60	PG	120	283x123x283	0,882	CSU08662009
Fixed external riser 200x60	PG	200	283x203x283	1,134	CSU08663009
Fixed external riser 250x60	PG	250	283x253x283	1,277	CSU08664009
Fixed external riser 330x60	PG	330	283x333x283	1,480	CSU08665009
Fixed external riser 400x60	PG	400	283x403x283	1,676	CSU08666109
Fixed external riser 500x60	PG	500	283x503x283	1,907	CSU08667109
Fixed external riser 600x60	PG	600	283x603x283	2,153	CSU08668109
Fixed external riser 70x60 R1013	PG + RAL1013	70	283x73x283	0,745	CSU08661019
Fixed external riser 120x60 R1013	PG + RAL1013	120	283x123x283	0,882	CSU08662019
Fixed external riser 200x60 R1013	PG + RAL1013	200	283x203x283	1,134	CSU08663019
Fixed external riser 250x60 R1013	PG + RAL1013	250	283x253x283	1,277	CSU08664019
Fixed external riser 330x60 R1013	PG + RAL1013	330	283x333x283	1,480	CSU08665019
Fixed external riser 400x60 R1013	PG + RAL1013	400	283x403x283	1,676	CSU08666119
Fixed external riser 500x60 R1013	PG + RAL1013	500	283x503x283	1,907	CSU08667119
Fixed external riser 600x60 R1013	PG + RAL1013	600	283x603x283	2,153	CSU08668119



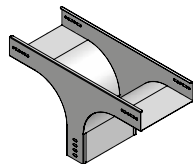
Fixed cover external riser					
To protect cables and prevent dust buildup. Attach to the riser piece with the Universal cover clamp CSU08855000 or Cover clamp captive CSU76240000.					
Fixed cover external riser 70	PG	70	283x75x219	0,370	CSU08561009
Fixed cover external riser 120	PG	120	283x125x219	0,568	CSU08562009
Fixed cover external riser 200	PG	200	283x205x219	0,888	CSU08563009
Fixed cover external riser 250	PG	250	283x255x219	1,086	CSU08564009
Fixed cover external riser 330	PG	330	283x335x219	1,406	CSU08565009
Fixed cover external riser 400	PG	400	283x405x219	1,681	CSU08566109
Fixed cover external riser 500	PG	500	283x505x219	2,078	CSU08567109
Fixed cover external riser 600	PG	600	283x605x219	2,475	CSU08568109
Fixed cover external riser 70 R1013	PG + RAL1013	70	283x75x219	0,370	CSU08561019
Fixed cover external riser 120 R1013	PG + RAL1013	120	283x125x219	0,568	CSU08562019
Fixed cover external riser 200 R1013	PG + RAL1013	200	283x205x219	0,888	CSU08563019
Fixed cover external riser 250 R1013	PG + RAL1013	250	283x255x219	1,086	CSU08564019
Fixed cover external riser 330 R1013	PG + RAL1013	330	283x335x219	1,406	CSU08565019
Fixed cover external riser 400 R1013	PG + RAL1013	400	283x405x219	1,681	CSU08566119
Fixed cover external riser 500 R1013	PG + RAL1013	500	283x505x219	2,078	CSU08567119
Fixed cover external riser 600 R1013	PG + RAL1013	600	283x605x219	2,475	CSU08568119



Adjustable external hinge coupler					
For creating horizontal offsets and variable slope and rise angles. Connect to cable tray with M6x10 mounting screw. Supplied as a set of two. Adjustment range: 2x90°.					
Adjustable external hinge coupler	PG	70-600	11x64x234	0,220	CSU08750000
Adjustable external hinge coupler R1013	PG + RAL1013	70-600	11x64x234	0,220	CSU08750010

Fixed accessories

Fixed accessories



Type	Surface treatment	Breedte	Dimension AxB (mm)	Kg / piece	Article No.
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Fixed vertical T-piece

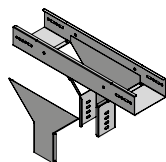
For creating vertical branches in horizontal cable trays of equal width. Connect to the cable tray with quick-release Connector spring CSU08854000 or with M6x10 mounting screw.

Fixed vertical T-piece 70x60	PG	70	263x73x503	1,323	CSU08701009
Fixed vertical T-piece 120x60	PG	120	263x123x503	1,607	CSU08702009
Fixed vertical T-piece 200x60	PG	200	263x203x503	2,061	CSU08703009
Fixed vertical T-piece 250x60	PG	250	263x253x503	2,348	CSU08704009
Fixed vertical T-piece 330x60	PG	330	263x333x503	2,807	CSU08705009

Fixed vertical T-piece 70x60 R1013	PG + RAL1013	70	263x73x503	1,323	CSU08701019
Fixed vertical T-piece 120x60 R1013	PG + RAL1013	120	263x123x503	1,607	CSU08702019
Fixed vertical T-piece 200x60 R1013	PG + RAL1013	200	263x203x503	2,061	CSU08703019
Fixed vertical T-piece 250x60 R1013	PG + RAL1013	250	263x253x503	2,348	CSU08704019
Fixed vertical T-piece 330x60 R1013	PG + RAL1013	330	263x333x503	2,807	CSU08705019

Fixed vertical wall piece

For creating vertical branches along walls in horizontal cable trays of equal or narrower width. Connect to the cable tray with quick-release Connector spring CSU08854000 or with M6x10 mounting screw. The cover is secured with Universal cover clip CSU08855000 or Cover clamp captive CSU76240000.



Fixed vertical wall piece 70-70x60	PG	70	293x73x476	1,345	CSU08721209
Fixed vertical wall piece 120-70x60	PG	120	293x123x526	1,564	CSU08722209
Fixed vertical wall piece 200-70x60	PG	200	293x203x606	1,873	CSU08723209
Fixed vertical wall piece 250-70x60	PG	250	293x253x656	2,092	CSU08724209
Fixed vertical wall piece 330-70x60	PG	330	293x333x736	2,498	CSU08725209

Fixed vertical wall piece 120-120x60	PG	120	293x123x476	1,811	CSU08722409
Fixed vertical wall piece 200-120x60	PG	200	293x203x526	2,115	CSU08723409
Fixed vertical wall piece 250-120x60	PG	250	293x253x606	2,334	CSU08724409
Fixed vertical wall piece 330-120x60	PG	330	293x333x656	2,641	CSU08725409

Fixed vertical wall piece 200-200x60	PG	200	293x203x526	2,568	CSU08723609
Fixed vertical wall piece 250-200x60	PG	250	293x253x606	2,789	CSU08724609
Fixed vertical wall piece 330-200x60	PG	330	293x333x656	3,069	CSU08725609
Fixed vertical wall piece 250-250x60	PG	250	293x253x606	3,231	CSU08724809
Fixed vertical wall piece 330-250x60	PG	330	293x333x656	3,537	CSU08725809
Fixed vertical wall piece 330-330x60	PG	330	293x333x656	3,787	CSU08725009

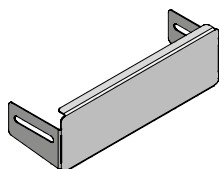
Fixed vertical wall piece 70-70x60 R1013	PG + RAL1013	70	293x73x476	1,345	CSU08721219
Fixed vertical wall piece 120-70x60 R1013	PG + RAL1013	120	293x123x526	1,564	CSU08722219
Fixed vertical wall piece 200-70x60 R1013	PG + RAL1013	200	293x203x606	1,873	CSU08723219
Fixed vertical wall piece 250-70x60 R1013	PG + RAL1013	250	293x253x656	2,092	CSU08724219
Fixed vertical wall piece 330-70x60 R1013	PG + RAL1013	330	293x333x736	2,498	CSU08725219


Fixed vertical wall piece 120-120x60 R1013	PG + RAL1013	120	293x123x476	1,811	CSU08722419
Fixed vertical wall piece 200-120x60 R1013	PG + RAL1013	200	293x203x526	2,115	CSU08723419
Fixed vertical wall piece 250-120x60 R1013	PG + RAL1013	250	293x253x606	2,334	CSU08724419
Fixed vertical wall piece 330-120x60 R1013	PG + RAL1013	330	293x333x656	2,641	CSU08725419

Fixed vertical wall piece 200-200x60 R1013	PG + RAL1013	200	293x203x526	2,568	CSU08723619
Fixed vertical wall piece 250-200x60 R1013	PG + RAL1013	250	293x253x606	2,789	CSU08724619
Fixed vertical wall piece 330-200x60 R1013	PG + RAL1013	330	293x333x656	3,069	CSU08725619
Fixed vertical wall piece 250-250x60 R1013	PG + RAL1013	250	293x253x606	3,231	CSU08724819
Fixed vertical wall piece 330-250x60 R1013	PG + RAL1013	330	293x333x656	3,537	CSU08725819
Fixed vertical wall piece 330-330x60 R1013	PG + RAL1013	330	293x333x656	3,787	CSU08725019

Fixed accessories

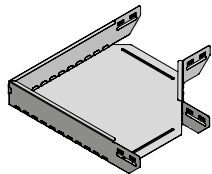
Fixed accessories



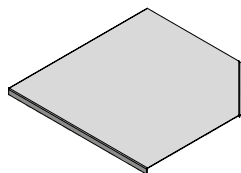
Type	Surface treatment	Breedte	Dimension AxB (mm) 	Kg /piece	Article No.
End plate closed					
For correctly finishing cable tray end pieces. Supplied flat; fold the side tabs before installation. Connect to cable tray with quick-release Connector spring CSU08854000 or with M6x10 mounting screw.					
End plate closed 70x60	PG	70	11x64x202	0,137	CSU36180704
End plate closed 120x60	PG	120	11x64x252	0,170	CSU36181204
End plate closed 200x60	PG	200	11x64x332	0,222	CSU36182004
End plate closed 250x60	PG	250	11x64x382	0,254	CSU36182504
End plate closed 330x60	PG	330	11x64x462	0,306	CSU36183304
End plate closed 400x60	PG	400	11x64x532	0,352	CSU36184004
End plate closed 500x60	PG	500	11x64x632	0,417	CSU36185004
End plate closed 600x60	PG	600	11x64x732	0,482	CSU36186004
End plate closed 70x60 R1013	PG + RAL1013	70	11x64x202	0,137	CSU36180714
End plate closed 120x60 R1013	PG + RAL1013	120	11x64x252	0,170	CSU36181214
End plate closed 200x60 R1013	PG + RAL1013	200	11x64x332	0,222	CSU36182014
End plate closed 250x60 R1013	PG + RAL1013	250	11x64x382	0,254	CSU36182514
End plate closed 330x60 R1013	PG + RAL1013	330	11x64x462	0,306	CSU36183314
End plate closed 400x60 R1013	PG + RAL1013	400	11x64x532	0,352	CSU36184014
End plate closed 500x60 R1013	PG + RAL1013	500	11x64x632	0,417	CSU36185014
End plate closed 600x60 R1013	PG + RAL1013	600	11x64x732	0,482	CSU36186014

Flat fittings

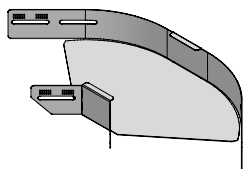
Flat fittings



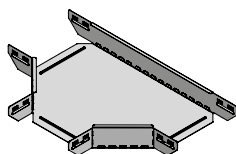
Type	Surface treatment	Breedte	Dimension AxB (mm)	Kg / piece	Article No.
Corner piece 90°					
For creating horizontal 90° bends. Supplied flat, it must be bent into shape before installation. Mount to the cable tray with Fixing Clip for Flat form pieces CSU08856050 or with mounting screw M6x10.					
Corner piece 70x60	PG	70	14x318x318	0,440	CSU36060702
Corner piece 120x60	PG	120	14x368x368	0,614	CSU36061202
Corner piece 200x60	PG	200	14x448x448	0,958	CSU36062002
Corner piece 250x60	PG	250	14x498x498	1,215	CSU36062502
Corner piece 330x60	PG	330	14x578x578	1,693	CSU36063302
Corner piece 70x60 R1013	PG + RAL1013	70	14x318x318	0,440	CSU36060712
Corner piece 120x60 R1013	PG + RAL1013	120	14x368x368	0,614	CSU36061212
Corner piece 200x60 R1013	PG + RAL1013	200	14x448x448	0,958	CSU36062012
Corner piece 250x60 R1013	PG + RAL1013	250	14x498x498	1,215	CSU36062512
Corner piece 330x60 R1013	PG + RAL1013	330	14x578x578	1,693	CSU36063312



Cover corner piece 90°					
To protect cables and prevent dust buildup. Mount on a corner piece with Universal cover clip CSU08855000 or Cover clamp captive CSU76240000.					
Cover corner piece 70	PG	70	11x170x170	0,177	CSU30060702
Cover corner piece 120	PG	120	11x220x220	0,306	CSU30061202
Cover corner piece 200	PG	200	11x300x300	0,580	CSU30062002
Cover corner piece 250	PG	250	11x350x350	0,792	CSU30062502
Cover corner piece 330	PG	330	11x430x430	1,199	CSU30063302
Cover corner piece 70 R1013	PG + RAL1013	70	11x170x170	0,177	CSU30060712
Cover corner piece 120 R1013	PG + RAL1013	120	11x220x220	0,306	CSU30061212
Cover corner piece 200 R1013	PG + RAL1013	200	11x300x300	0,580	CSU30062012
Cover corner piece 250 R1013	PG + RAL1013	250	11x350x350	0,792	CSU30062512
Cover corner piece 330 R1013	PG + RAL1013	330	11x430x430	1,199	CSU30063312



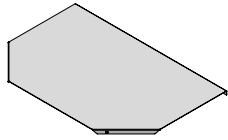
Flat adjustable bend					
For creating horizontal bends at variable angles. Supplied flat, it must be bent into shape before installation. Mount to cable tray with quick-release Connector spring CSU08854000 or with M6x10 mounting screw. Adjustment range: 45°-90°.					
Flat adjustable bend 70x60	PG	70	10x350x179	0,243	CSU36520702
Flat adjustable bend 120x60	PG	120	10x430x259	0,346	CSU36521202
Flat adjustable bend 200x60	PG	200	10x600x309	0,600	CSU36522002
Flat adjustable bend 250x60	PG	250	10x680x359	0,765	CSU36522502
Flat adjustable bend 330x60	PG	330	10x820x439	1,112	CSU36523302
Flat adjustable bend 70x60	PG + RAL1013	70	10x350x179	0,243	CSU36520712
Flat adjustable bend 120x60	PG + RAL1013	120	10x430x259	0,346	CSU36521212
Flat adjustable bend 200x60	PG + RAL1013	200	10x600x309	0,600	CSU36522012
Flat adjustable bend 250x60	PG + RAL1013	250	10x680x359	0,765	CSU36522512
Flat adjustable bend 330x60	PG + RAL1013	330	10x820x439	1,112	CSU36523312



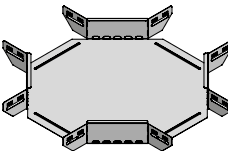
T-piece					
For creating right-angled branches of equal width. Supplied flat, it must be bent into shape before installation. Mount to the cable tray with Fixing Clip for Flat form pieces CSU08856050 or with an M6x10 mounting screw.					
T-piece 70x60	PG	70	14x451x317	0,592	CSU36150702
T-piece 120x60	PG	120	14x501x367	0,780	CSU36151202
T-piece 200x60	PG	200	14x581x447	1,148	CSU36152002
T-piece 250x60	PG	250	14x631x497	1,420	CSU36152502
T-piece 330x60	PG	330	14x711x577	1,922	CSU36153302
T-piece 70x60 R1013	PG + RAL1013	70	14x451x317	0,592	CSU36150712
T-piece 120x60 R1013	PG + RAL1013	120	14x501x367	0,780	CSU36151212
T-piece 200x60 R1013	PG + RAL1013	200	14x581x447	1,148	CSU36152012
T-piece 250x60 R1013	PG + RAL1013	250	14x631x497	1,420	CSU36152512
T-piece 330x60 R1013	PG + RAL1013	330	14x711x577	1,922	CSU36153312

Flat fittings

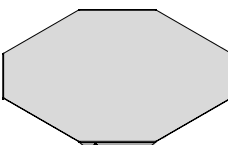
Flat fittings



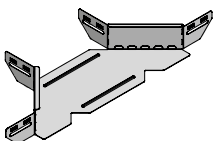
Type	Surface treatment	Breedte	Dimension AxB (mm)	Kg /piece	Article No.
T-piece Cover					
To protect cables and prevent dust buildup. Mount on a T-piece with Universal cover clip CSU08855000 or Cover clamp captive CSU76240000.					
T-piece Cover 70	PG	70	11x270x170	0,255	CSU30150702
T-piece Cover 120	PG	120	11x320x220	0,413	CSU30151202
T-piece Cover 200	PG	200	11x400x300	0,732	CSU30152002
T-piece Cover 250	PG	250	11x450x350	0,973	CSU30152502
T-piece Cover 330	PG	330	11x530x430	1,425	CSU30153302
T-piece Cover 70 R1013	PG + RAL1013	70	11x270x170	0,255	CSU30150712
T-piece Cover 120 R1013	PG + RAL1013	120	11x320x220	0,413	CSU30151212
T-piece Cover 200 R1013	PG + RAL1013	200	11x400x300	0,732	CSU30152012
T-piece Cover 250 R1013	PG + RAL1013	250	11x450x350	0,973	CSU30152512
T-piece Cover 330 R1013	PG + RAL1013	330	11x530x430	1,425	CSU30153312



X-Piece					
For creating crossings of equal width. Supplied flat, it must be bent into shape before installation. Mount to the cable tray with Fixing Clip for Flat form pieces CSU08856050 or with mounting screw M6x10.					
X-Piece 70x60	PG	70	14x349x349	0,755	CSU36160702
X-Piece 120x60	PG	120	14x419x419	0,958	CSU36161202
X-Piece 200x60	PG	200	14x532x532	1,349	CSU36162002
X-Piece 250x60	PG	250	14x602x602	1,635	CSU36162502
X-Piece 330x60	PG	330	14x715x715	2,160	CSU36163302
X-Piece 70x60 R1013	PG + RAL1013	70	14x349x349	0,755	CSU36160712
X-Piece 120x60 R1013	PG + RAL1013	120	14x419x419	0,958	CSU36161212
X-Piece 200x60 R1013	PG + RAL1013	200	14x532x532	1,349	CSU36162012
X-Piece 250x60 R1013	PG + RAL1013	250	14x602x602	1,635	CSU36162512
X-Piece 330x60 R1013	PG + RAL1013	330	14x715x715	2,160	CSU36163312




Cover X-piece					
To protect cables and prevent dust buildup. Mount on the X-piece with Universal cover clip CSU08855000 or Cover clamp captive CSU76240000.					
Cover X-piece 70x60	PG	70	11x270x270	0,361	CSU30160702
Cover X-piece 120x60	PG	120	11x320x320	0,547	CSU30161202
Cover X-piece 200x60	PG	200	11x400x400	0,911	CSU30162002
Cover X-piece 250x60	PG	250	11x450x450	1,181	CSU30162502
Cover X-piece 330x60	PG	330	11x530x530	1,617	CSU30163302
Cover X-piece 70x60 R1013	PG + RAL1013	70	11x270x270	0,361	CSU30160712
Cover X-piece 120x60 R1013	PG + RAL1013	120	11x320x320	0,547	CSU30161212
Cover X-piece 200x60 R1013	PG + RAL1013	200	11x400x400	0,911	CSU30162012
Cover X-piece 250x60 R1013	PG + RAL1013	250	11x450x450	1,181	CSU30162512
Cover X-piece 330x60 R1013	PG + RAL1013	330	11x530x530	1,617	CSU30163312



Branching Piece					
For creating right-angled branches with unequal widths. Cut out the cable tray on-site. Supplied flat, it must be bent into shape before installation. Mount to the cable tray with Fixing Clip for Flat form pieces CSU08856050 or with an M6x10 mounting screw.					
Branching Piece 70x60	PG	70	14x444x223	0,337	CSU36070702
Branching Piece 120x60	PG	120	14x494x223	0,380	CSU36071202
Branching Piece 200x60	PG	200	14x574x223	0,445	CSU36072002
Branching Piece 250x60	PG	250	14x624x223	0,486	CSU36072502
Branching Piece 330x60	PG	330	14x704x704	0,552	CSU36073302
Branching Piece 70x60 R1013	PG + RAL1013	70	14x444x223	0,337	CSU36070712
Branching Piece 120x60 R1013	PG + RAL1013	120	14x494x223	0,380	CSU36071212
Branching Piece 200x60 R1013	PG + RAL1013	200	14x574x223	0,445	CSU36072012
Branching Piece 250x60 R1013	PG + RAL1013	250	14x624x223	0,486	CSU36072512
Branching Piece 330x60 R1013	PG + RAL1013	330	14x704x704	0,552	CSU36073312

Flat fittings

Flat fittings

Type	Surface treatment	Breedte	Dimension AxB (mm)	 Kg / piece	Article No.
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Branching Piece Cover

To protect cables and prevent dust buildup. Mount on an attachment with Universal cover clip CSU08855000 or Cover clamp captive CSU76240000.

Branching Piece Cover 70	PG	70	11x270x100	0,337	CSU30070702
Branching Piece Cover 120	PG	120	11x320x100	0,380	CSU30071202
Branching Piece Cover 200	PG	200	11x400x100	0,445	CSU30072002
Branching Piece Cover 250	PG	250	11x450x100	0,486	CSU30072502
Branching Piece Cover 330	PG	330	11x530x100	0,552	CSU30073302

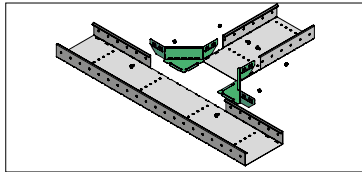
Branching Piece Cover 70 R1013	PG + RAL1013	70	11x270x100	0,337	CSU30070702
Branching Piece Cover 120 R1013	PG + RAL1013	120	11x320x100	0,380	CSU30071202
Branching Piece Cover 200 R1013	PG + RAL1013	200	11x400x100	0,445	CSU30072002
Branching Piece Cover 250 R1013	PG + RAL1013	250	11x450x100	0,486	CSU30072502
Branching Piece Cover 330 R1013	PG + RAL1013	330	11x530x100	0,552	CSU30073302

Universal Angle Connector

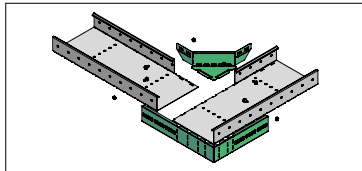
For making all horizontal corner, T-, and X-connections. For 90° corner connections, use with Stop end/universal reducer piece CSU08940000 or CSU08960000. Supplied flat; must be bent into shape before installation. Mount to cable tray with Fixing Clip for Flat form pieces CSU08856050 or with M6x10 mounting screw.

Universal Angle Connector	PG		14x297x142	0,147	CSU36110002
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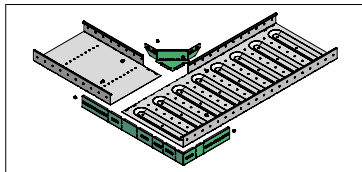
Universal Angle Connector R1013	PG + RAL1013		14x297x142	0,147	CSU36110012
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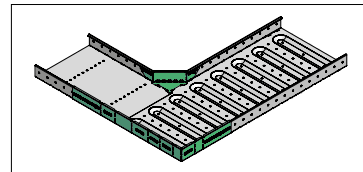
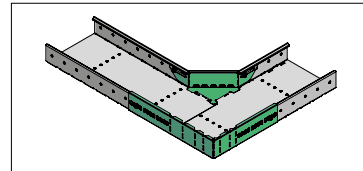
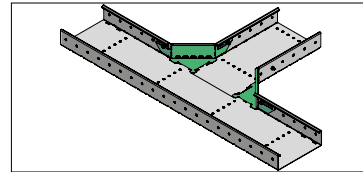
T-connection with 2 pieces CSU361100x2



Corner connection up to 330 with coupling piece CSU08940005



Corner connection up to 600 with coupling piece CSU08960000

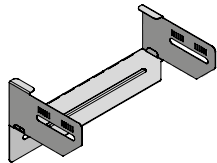
**Universal Angle Connector Cover**


To protect cables and prevent dust buildup. The cover is secured with a spring.

Universal Angle Connector Cover	PG		63x100x140	0,103	CSU08980000
Universal Angle Connector Cover R1013	PG + RAL1013		63x100x140	0,103	CSU08980010

Flat fittings

Flat fittings



Type	Surface treatment	Breedte	Dimension AxB (mm) 	Kg /piece	Article No.
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Tray piece closed

For creating right-angled branches on cable trays. Supplied flat, it must be bent into shape before installation. Secure with Fixing Clip for Flat form pieces CSU08856050 and/or M6x10 mounting screw.

Tray piece closed 70x60	PG	70	14x183x158	0,133	CSU36510702
Tray piece closed 120x60	PG	120	14x233x158	0,172	CSU36511202
Tray piece closed 200x60	PG	200	14x313x158	0,232	CSU36512002
Tray piece closed 250x60	PG	250	14x363x158	0,268	CSU36512502

Tray piece closed 70x60	PG + RAL1013	70	14x183x158	0,133	CSU36510712
Tray piece closed 120x60	PG + RAL1013	120	14x233x158	0,172	CSU36511212
Tray piece closed 200x60	PG + RAL1013	200	14x313x158	0,232	CSU36512012
Tray piece closed 250x60	PG + RAL1013	250	14x363x158	0,268	CSU36512512

Reducing piece

For symmetrically reducing the size of cable trays. Supplied flat, it must be bent into shape before installation. Mount to cable tray with Fixing Clip for Flat form pieces CSU08856050 or with mounting screw M6x10.

Reducing piece 70-120x60	PG	70-120	14x270x228	0,215	CSU36252202
Reducing piece 70-200x60	PG	70-200	14x372x241	0,311	CSU36252402
Reducing piece 70-250x60	PG	70-250	14x430x213	0,349	CSU36252602
Reducing piece 120-200x60	PG	120-200	14x356x251	0,330	CSU36254702
Reducing piece 120-250x60	PG	120-250	14x421x241	0,356	CSU36254802
Reducing piece 200-250x60	PG	200-250	14x391x256	0,377	CSU36256402

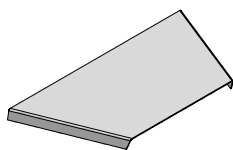
Reducing piece 70-120x60 R1013	PG + RAL1013	70-120	14x270x228	0,215	CSU36252212
Reducing piece 70-200x60 R1013	PG + RAL1013	70-200	14x372x241	0,311	CSU36252412
Reducing piece 70-250x60 R1013	PG + RAL1013	70-250	14x430x213	0,349	CSU36252612
Reducing piece 120-200x60 R1013	PG + RAL1013	120-200	14x356x251	0,330	CSU36254712
Reducing piece 120-250x60 R1013	PG + RAL1013	120-250	14x421x241	0,356	CSU36254812
Reducing piece 200-250x60 R1013	PG + RAL1013	200-250	14x391x256	0,377	CSU36256412

Reducing piece cover

To protect cables and prevent dust buildup. Mount to an adapter with Universal cover clip CSU08855000 or Cover clamp captive CSU76240000.

Reducing piece cover 70-120	PG	70-120	11x137x75	0,055	CSU30252202
Reducing piece cover 70-200	PG	70-200	11x200x100	0,101	CSU30252402
Reducing piece cover 70-250	PG	70-250	11x250x88	0,106	CSU30252602
Reducing piece cover 120-200	PG	120-200	11x200x100	0,175	CSU30254702
Reducing piece cover 120-250	PG	120-250	11x250x100	0,132	CSU30254802
Reducing piece cover 200-250	PG	200-250	11x250x100	0,156	CSU30256402

Reducing piece cover 70-120 R1013	PG + RAL1013	70-120	11x137x75	0,055	CSU30252212
Reducing piece cover 70-200 R1013	PG + RAL1013	70-200	11x200x100	0,101	CSU30252412
Reducing piece cover 70-250 R1013	PG + RAL1013	70-250	11x250x88	0,106	CSU30252612
Reducing piece cover 120-200 R1013	PG + RAL1013	120-200	11x200x100	0,175	CSU30254712
Reducing piece cover 120-250 R1013	PG + RAL1013	120-250	11x250x100	0,132	CSU30254812
Reducing piece cover 200-250 R1013	PG + RAL1013	200-250	11x250x100	0,156	CSU30256412



Flat fittings

Flat fittings

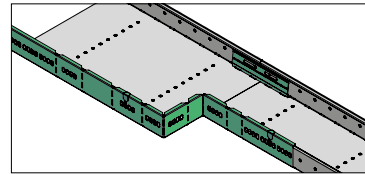
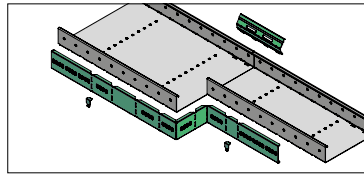
Type	Surface treatment	Breedte	Dimension AxB (mm)	Kg / piece	Article No.
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Stop end/universal reducer piece

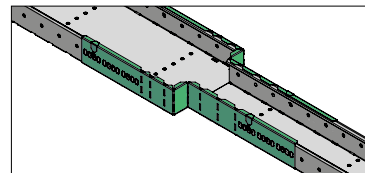
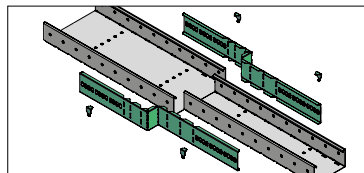
For symmetrical or asymmetrical taper of cable trays. Before bending to the desired size, first remove the knockout corners of the folded edge. It is recommended to install the cable trays with a slight overlap.

Stop end/universal reducer piece 605	PG	70-330	64x10x605	0,325	CSU08940000
Stop end/universal reducer piece 957	PG	400-600	64x10x957	0,455	CSU08960000

Stop end/universal reducer piece 605 R1013	PG + RAL1013	70-330	64x10x605	0,325	CSU08940010
Stop end/universal reducer piece 957 R1013	PG + RAL1013	400-600	64x10x957	0,455	CSU08960010



Asymmetric reduction with Stop end/universal reducer piece CSU089600xx and Side Joint CSU08010000



Symmetrical reduction with 2 Stop end/universal reducer pieces CSU089400xx

Internal riser

For creating 90° vertical riser bends. Supplied flat, it must be bent into shape before installation. Mount to cable tray with Fixing Clip for Flat form pieces CSU08856050 or with M6x10 mounting screw.

Internal riser 70x60	PG	70	14x287x270	0,335	CSU36230702
Internal riser 120x60	PG	120	14x337x270	0,422	CSU36231202
Internal riser 200x60	PG	200	14x417x270	0,560	CSU36232002
Internal riser 250x60	PG	250	14x467x270	0,646	CSU36232502
Internal riser 330x60	PG	330	14x547x270	0,783	CSU36233302

Internal riser 70x60 R1013	PG + RAL1013	70	14x287x270	0,335	CSU36230712
Internal riser 120x60 R1013	PG + RAL1013	120	14x337x270	0,422	CSU36231212
Internal riser 200x60 R1013	PG + RAL1013	200	14x417x270	0,560	CSU36232012
Internal riser 250x60 R1013	PG + RAL1013	250	14x467x270	0,646	CSU36232512
Internal riser 330x60 R1013	PG + RAL1013	330	14x547x270	0,783	CSU36233312

Cover internal bend

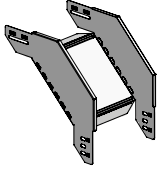
To protect wiring and prevent dust buildup. Mount to the riser with Universal cover clip CSU08855000 or Cover clamp captive CSU76240000.

Cover internal bend 70	PG	70	11x70x126	0,071	CSU30230702
Cover internal bend 120	PG	120	11x120x126	0,111	CSU30231202
Cover internal bend 200	PG	200	11x200x126	0,175	CSU30232002
Cover internal bend 250	PG	250	11x250x126	0,215	CSU30232502
Cover internal bend 330	PG	330	11x330x126	0,279	CSU30233302

Cover internal bend 70 R1013	PG + RAL1013	70	11x70x126	0,071	CSU30230712
Cover internal bend 120 R1013	PG + RAL1013	120	11x120x126	0,111	CSU30231212
Cover internal bend 200 R1013	PG + RAL1013	200	11x200x126	0,175	CSU30232012
Cover internal bend 250 R1013	PG + RAL1013	250	11x250x126	0,215	CSU30232512
Cover internal bend 330 R1013	PG + RAL1013	330	11x330x126	0,279	CSU30233312

Flat fittings

Flat fittings



Type	Surface treatment	Breedte	Dimension AxB (mm)	Kg / piece	Article No.
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Drop piece closed

For creating vertical 90° drop bends. Supplied flat, it must be bent into shape before installation. Mount to cable tray with Fixing Clip for Flat form pieces CSU08856050 or with mounting screw M6x10. The Drop piece closed is extra high for better support of thick cables.

Drop piece closed 70x60	PG	70	14x257x358	0,745	CSU36220702
Drop piece closed 120x60	PG	120	14x307x358	0,882	CSU36221202
Drop piece closed 200x60	PG	200	14x387x358	1,134	CSU36222002
Drop piece closed 250x60	PG	250	14x437x358	1,277	CSU36222502
Drop piece closed 330x60	PG	330	14x517x358	1,480	CSU36223302

Drop piece closed 70x60 R1013	PG + RAL1013	70	14x257x358	0,745	CSU36220712
Drop piece closed 120x60 R1013	PG + RAL1013	120	14x307x358	0,882	CSU36221212
Drop piece closed 200x60 R1013	PG + RAL1013	200	14x387x358	1,134	CSU36222012
Drop piece closed 250x60 R1013	PG + RAL1013	250	14x437x358	1,277	CSU36222512
Drop piece closed 330x60 R1013	PG + RAL1013	330	14x517x358	1,480	CSU36223312

Cover external bend

To protect wiring and prevent dust buildup. Attaches to a corner attachment with Universal cover clip CSU08855000 or Cover clamp captive CSU76240000.

Cover external bend 70	PG	70	11x70x148	0,370	CSU30220702
Cover external bend 120	PG	120	11x120x148	0,568	CSU30221202
Cover external bend 200	PG	200	11x200x148	0,888	CSU30222002
Cover external bend 250	PG	250	11x250x148	1,086	CSU30222502
Cover external bend 330	PG	330	11x330x148	1,406	CSU30223302

Cover external bend 70 R1013	PG + RAL1013	70	11x70x148	0,370	CSU30220712
Cover external bend 120 R1013	PG + RAL1013	120	11x120x148	0,568	CSU30221212
Cover external bend 200 R1013	PG + RAL1013	200	11x200x148	0,888	CSU30222012
Cover external bend 250 R1013	PG + RAL1013	250	11x250x148	1,086	CSU30222512
Cover external bend 330 R1013	PG + RAL1013	330	11x330x148	1,406	CSU30223312

Adjustable external hinge coupler

For creating horizontal offsets and variable slope and rise angles. Connect to cable tray with M6x10 mounting screw. Supplied as a set of two. Adjustment range: 2x90°.

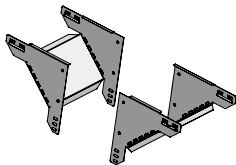
Adjustable external hinge coupler	PG	70-600	11x64x234	0,220	CSU08750000
Adjustable external hinge coupler R1013	PG + RAL1013	70-600	11x64x234	0,220	CSU08750010

Vertical T piece

For creating vertical branches in horizontal cable trays of equal width. Supplied flat and bent to shape before installation. Assemble with M6x10 mounting screw. Connect to cable tray with quick-release Connector spring CSU08854000 or M6x10 mounting screw.

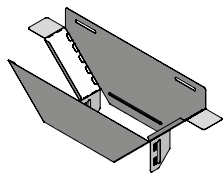
Vertical T piece 70x60	PG	70	27x250x252	1,323	CSU36210702
Vertical T piece 120x60	PG	120	27x285x287	1,607	CSU36211202
Vertical T piece 200x60	PG	200	27x342x344	2,061	CSU36212002
Vertical T piece 250x60	PG	250	27x377x379	2,348	CSU36212502
Vertical T piece 330x60	PG	330	27x434x436	2,807	CSU36213302

Vertical T piece 70x60 R1013	PG + RAL1013	70	27x250x252	1,323	CSU36210712
Vertical T piece 120x60 R1013	PG + RAL1013	120	27x285x287	1,607	CSU36211212
Vertical T piece 200x60 R1013	PG + RAL1013	200	27x342x344	2,061	CSU36212012
Vertical T piece 250x60 R1013	PG + RAL1013	250	27x377x379	2,348	CSU36212512
Vertical T piece 330x60 R1013	PG + RAL1013	330	27x434x436	2,807	CSU36213312

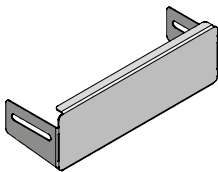


Flat fittings

Flat fittings



Type	Surface treatment	Breedte	Dimension AxB (mm)	Kg /piece	Article No.
Vertical wall piece					
For creating vertical branches along walls in horizontal cable trays of equal or smaller width. Supplied flat; must be bent into shape before installation. Includes vertical section cover. Cut out the cable tray on site. Connect to cable tray with quick-release Connector spring CSU08854000 or M6x10 mounting screw. Secure the cover with Universal cover clip CSU08855000 or Cover clamp captive CSU76240000.					
Vertical wall piece 70	PG	70	14x412x241	0,418	CSU36240702
Vertical wall piece 120	PG	120	14x462x241	0,480	CSU36241202
Vertical wall piece 200	PG	200	14x542x241	0,577	CSU36242002
Vertical wall piece 250	PG	250	14x592x241	0,639	CSU36242502
Vertical wall piece 330	PG	330	14x672x241	0,737	CSU36243302
Vertical wall piece 70	PG + RAL1013	70	14x412x241	1,811	CSU36240712
Vertical wall piece 120	PG + RAL1013	120	14x462x241	2,115	CSU36241212
Vertical wall piece 200	PG + RAL1013	200	14x542x241	2,334	CSU36242012
Vertical wall piece 250	PG + RAL1013	250	14x592x241	2,641	CSU36242512
Vertical wall piece 330	PG + RAL1013	330	14x672x241	2,641	CSU36243312



Flat end piece					
For correctly finishing cable tray end pieces. Supplied flat, it must be bent into shape before installation. Connect to cable tray with quick-release Connector spring CSU08854000 or with M6x10 mounting screw.					
Flat end piece 70x60	PG	70	11x64x202	0,137	CSU36180704
Flat end piece 120x60	PG	120	11x64x252	0,170	CSU36181204
Flat end piece 200x60	PG	200	11x64x332	0,222	CSU36182004
Flat end piece 250x60	PG	250	11x64x382	0,254	CSU36182504
Flat end piece 330x60	PG	330	11x64x462	0,306	CSU36183304
Flat end piece 400x60	PG	400	11x64x532	0,352	CSU36184004
Flat end piece 500x60	PG	500	11x64x632	0,417	CSU36185004
Flat end piece 600x60	PG	600	11x64x732	0,482	CSU36186004
Flat end piece 70x60 R1013	PG + RAL1013	70	11x64x202	0,137	CSU36180714
Flat end piece 120x60 R1013	PG + RAL1013	120	11x64x252	0,170	CSU36181214
Flat end piece 200x60 R1013	PG + RAL1013	200	11x64x332	0,222	CSU36182014
Flat end piece 250x60 R1013	PG + RAL1013	250	11x64x382	0,254	CSU36182514
Flat end piece 330x60 R1013	PG + RAL1013	330	11x64x462	0,306	CSU36183314
Flat end piece 400x60 R1013	PG + RAL1013	400	11x64x532	0,352	CSU36184014
Flat end piece 500x60 R1013	PG + RAL1013	500	11x64x632	0,417	CSU36185014
Flat end piece 600x60 R1013	PG + RAL1013	600	11x64x732	0,482	CSU36186014

General

This product group comprises general-purpose accessories for the Stago cable tray system KG 281. It includes various jointing plates and springs, latches, base strips, mounting plates, tube holders, snap-in rungs with matching snap locks, and protective profiles. Wibe Group places strong emphasis on screwless connection technology, which provides significant labour time savings.

Joints

Wibe Group offers several different options for connecting cable trays. In addition to screw-type jointing plates in various lengths, the Unilock screwless jointing plates are the most commonly used. These Unilock plates are fitted with lugs that lock into specially designed slots in the tray. This ensures that straight lengths can be joined quickly, screwlessly, and with excellent stability.

Clamps

Clamps provide a very simple way to fit one or more dividers into a tray. By inserting the latch into the perforation pattern in the base, the divider can be clicked into place at the desired compartment size. One latch per metre of tray is sufficient.

Mounting plates

In order to install dividers into fully enclosed cable trays, mounting plates of the corresponding width are used.

Mounting plates / Junction box plates

Mounting plates supplied with a universal hole pattern, allowing all common types of junction boxes to be fitted quickly and easily. Various versions are available, both screw-type and screwless, with or without cable entry and saddle fixing holes.

Tube Holders

Tube holders make it possible to attach installation conduit to the tray. They are mounted screwlessly using a retaining spring.

Rungs and Snap Locks

When trays are mounted vertically, rungs provide a fixing option for cabling. Both cable ties and clamps can be used. The snap locks and rungs are fitted screwlessly into the side perforation of the tray.

Cover Clips

Cover trays and lids can be fixed to Stago trays and accessories with different clips depending on the application. Where the system needs to be opened frequently, the captive universal cover clip is recommended.

Universal accessories

Protective profile

When trays are cut to size, sharp edges can occur. To prevent cable damage and injury during cabling, saw cuts can be fitted with a plastic protective profile.

Hand shears

In practice, trays often need to be shortened. Various cutting techniques are available, such as grinding and sawing. A major drawback of these methods is the high noise level. Wibe Group provides the quietest and most user-friendly solution in the form of hand shears. In addition, with smart planning of your tray layout, a great deal of unnecessary cutting work can be avoided.

Universal accessories

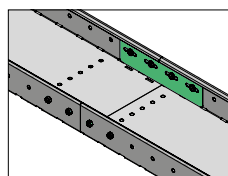
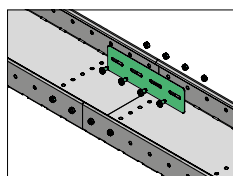
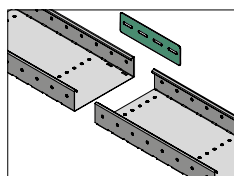
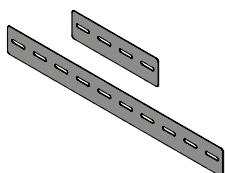
Universal accessories

Type	Surface treatment	Dimension AxB (mm) 	Kg / piece	Article No.
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Side Joint

For connecting all types of cable trays with side perforations, from 70 to 600 mm in both 0.8 and 1 mm thicknesses. Attaches to the cable tray with M6x10 mounting screws. The long side joint provides extra stability.

Side Joint Short	PG	56x200	0,100	CSU08010000
Side Joint Long	PG	56x500	0,255	CSU08210000

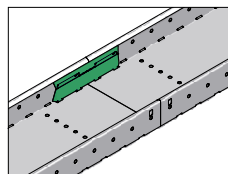
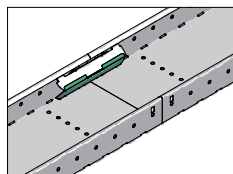
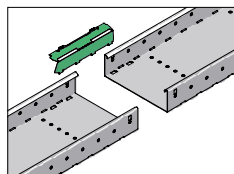
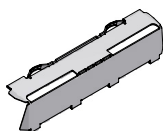


Side joint is mounted in the cable tray using M6 mounting screw

Internal joint (Unilock)

For screwless connection of all types of cable trays from 70 to 600 mm wide and in both 1 mm and 0.8 mm thicknesses. The joint locks into the cable tray to be connected with cams, creating an extremely stable connection.

Internal joint (Unilock)	PG	60x185	0,070	CSU08010109
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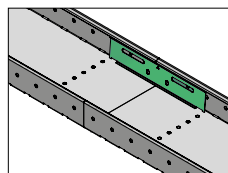
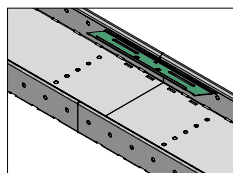
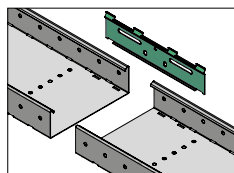
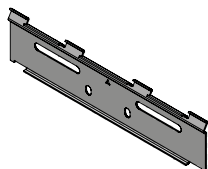
QUICK
FIT

Place the Unilock coupling plate in the tray and slide it lengthwise until the cams automatically engage the slots. Press the Unilock into place with light pressure.

Coupling plate screwless LOK

For screwless connection of all types of cable trays from 70 to 600 mm with a thickness of 1 mm. The slotted holes at the bottom of the cable tray are not used. This also allows for the connection of shortened cable trays.

Coupling plate screwless LOK 1 mm	PG	58x250	0,135	CSU08016000
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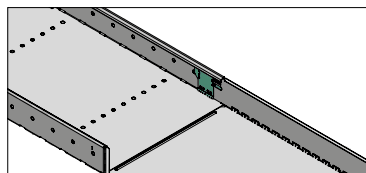
QUICK
FIT

Place the LOK coupling plate centered under the bead and rotate it towards the bottom. The coupling plate will lock itself into the bead.

Fixing Clip for Flat form pieces

For screwless connection of flat fittings to all types of cable trays. Packed in packs of 20.

Fixing Clip for Flat form pieces 20 pcs	SS	60x38x5	0,008	CSU08856050
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


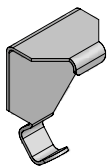
QUICK
FIT

The Fixing Clip is positioned diagonally under the beaded edge of the cable duct and then pressed against the connecting lip of the fitting. The cams on the coupling spring automatically lock into the fitting.

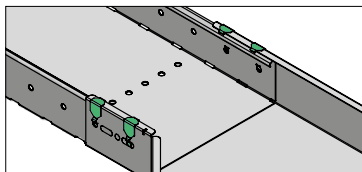
Universal accessories

Universal accessories

Type	Surface treatment	Dimension AxB (mm) 	Kg /piece	Article No.
Connector spring				
For quickly attaching various mounting plates and the tube holder to a cable tray. Also suitable for screwless connection of fixed accessories to a cable tray. Sold in packs of 100.				



Connector spring 100 pcs	SS	27x16x12	0,002	CSU08854000
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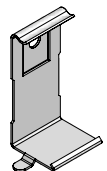


QUICK FIT

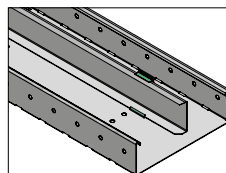
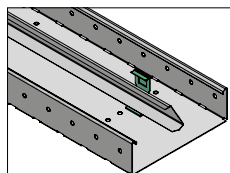
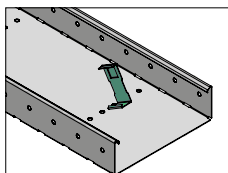
With Connector springs, fixed accessories can be connected to cable tray without screws.

Clamp for fixing separation wall

For screwless mounting of separation walls in all types of cable trays. 1 unit per meter. For fully enclosed cable trays, a CSU0887xx00 mounting plate of the corresponding width must be used.



Clamp for fixing separation wall	PG	62x40x21	0,002	CSU08870500
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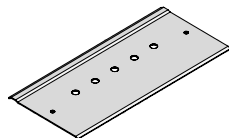


QUICK FIT

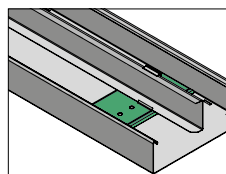
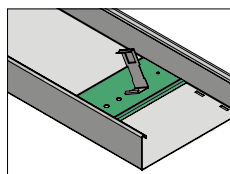
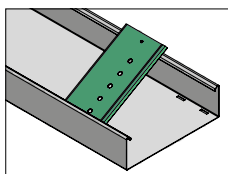
Place the clamp in the desired location in the bottom perforation and click in the separation wall.

Mounting plate for separation wall

For securing a separation wall with a clamp in a fully enclosed cable tray. 1 piece per meter.



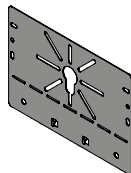
Mounting plate for separation wall 70	PG	89x66	0,030	CSU08871200
Mounting plate for separation wall 120	PG	89x116	0,050	CSU08872200
Mounting plate for separation wall 200	PG	89x196	0,080	CSU08873200
Mounting plate for separation wall 250	PG	89x246	0,100	CSU08874200
Mounting plate for separation wall 330	PG	89x326	0,130	CSU08875200



Place the mounting plate on the bottom, position the clamp in the desired location in the perforation of the bottom strip and click in the separation wall.

Mounting plate flat screwless

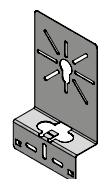
For mounting junction boxes on cable trays. Secured with an M6x10 mounting screw in the side perforation of the cable tray. Includes mounting holes for saddle clamps and a bending perforation.



Mounting plate flat screwless	PG	140x199	0,190	CSU08090109
Mounting plate flat screwless R1013	PG	140x199	0,190	CSU08090119

Mounting plate high screwless

For mounting junction boxes on cable trays. Secured with an M6x10 mounting screw in the side perforation of the cable tray. Can also be installed screwless using the Connector spring CSU08854000. With cable entry holes and mounting holes for cable clamps.




QUICK FIT

Mounting plate flat	PG	245x119x1	0,190	CSU08250109
Mounting plate angled	PG	206x119x42	0,190	CSU08250209
Mounting plate flat R1013	PG	245x119x1	0,190	CSU08250119
Mounting plate angled R1013	PG	206x119x42	0,190	CSU08250219

Universal accessories

Universal accessories

Type	Surface treatment	Dimension AxB (mm) 	Kg / piece	Article No.
Pipe support				
For mounting installation conduits on cable ducts. Attaches to the side perforation of the cable tray with an M6x10 mounting screw. Can also be mounted screwless using mounting spring 0885.40.00. Includes mounting holes for conduit saddles.				

QUICK FIT

Pipe support	PG	110x45x3	0,080	CSU08260309
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Rung

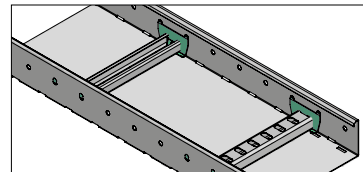
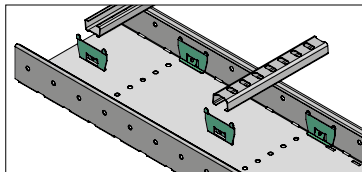
For strain relief of cables in vertically mounted cable trays. It is attached to the side perforation of the cable tray using two Snap connector CSU08150400

Rung 70	PG	30x15x66	0,045	CSU08151200
Rung 120	PG	30x15x116	0,080	CSU08152200
Rung 200	PG	30x15x196	0,140	CSU08153200
Rung 250	PG	30x15x246	0,175	CSU08154200
Rung 330	PG	30x15x326	0,235	CSU08155200
Rung 400	PG	30x15x396	0,280	CSU08156200
Rung 500	PG	30x15x496	0,350	CSU08157200
Rung 600	PG	30x15x596	0,420	CSU08158200

Snap connector for fixing rungs in cable tray

For mounting rungs in the cable tray on vertically mounted cable trays. Two connectors are required to screw-free attach one rung to the side perforation of the cable tray.

Snap connector	PG	39x56x7	0,002	CSU08150400
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QUICK FIT

The rungs can be mounted with either the open or perforated side facing up using snap connectors. This allows cables to be secured with cable clamps or cable ties.

Wall bracket L-shape

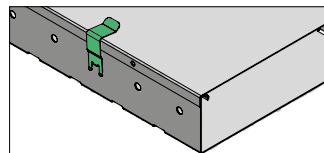
For vertical or horizontal mounting of cable trays on walls. Attaches to the side perforation of the cable tray with an M6x10 mounting screw.

Wall bracket L-shape	PG	60x45x60	0,105	CSU14450100
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Cover clamp for perforated cable trays

For attaching the cover to a cable tray. Sold in packs of 100. Fits into the side perforation of the cable tray.

Cover clamp 100 pcs	SS	39x24x16	0,010	CSU08852000
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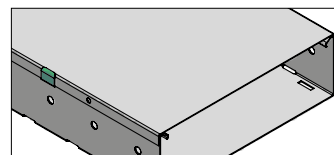
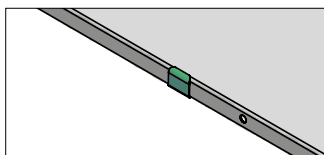
QUICK FIT

Cover clamps are fitted into the side perforation of the cable tray.

Universal cover clip

For attaching covers to cable trays and form pieces. Packaged in packs of 100. Securely attached to the tray cover or form piece cover.

Universal cover clip 100 pcs	SS	15x13x15	0,010	CSU08855000
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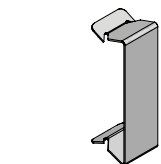



QUICK FIT

Universal cover clips are placed over the side edge of the tray cover (1 clamp per meter) or the form piece cover (1 clamp per side), after which the combination is clicked onto the cable tray or form piece.

Universal accessories

Universal accessories



Type	Surface treatment	Dimension AxB (mm) 	Kg /piece	Article No.
Cover clamp captive				
For attaching the cover to cable trays and form pieces. Sold in packs of 20. Fits flush with the cable tray and cover or form piece.				
Cover clamp captive 20 pcs	SS	68x23x21	0,015	CSU76240000

QUICK FIT



Protection strip plastic				
For cable protection at sharp cuts on cable trays. It is applied over the cut.				
Protection strip 5 m	PVC	10x5x5000	0,065	CSU08040000

QUICK FIT



Metal shears				
For cutting cable trays and fittings. Suitable for sheet thicknesses up to 1,2 mm.				
Metal shears			0,480	CSU08770100

Suspension devices

General

This product group comprises all accessories for fixing the Stago cable tray system KG 281 to ceilings and walls. It includes various support brackets and suspension/wall consoles, which can be attached to the trays either screwlessly or with fixings.

On the ceiling side, various practical brackets are available, which together with M10 hanger rods form the actual suspension.

Tray brackets

Wibe Group offers several different options for suspending cable trays. In addition to the screwless overhanging tray bracket, there are also tray brackets designed for use with cover trays. The internal tray bracket allows "concealed" installation, as the bracket is mounted entirely within the tray itself.

C-brackets

The popularity of the C-bracket is due to the fact that cabling can be laid in extremely easily. C-brackets are available in different load capacities.

Wall consoles and support beams

Support beams in various lengths can be clipped into wall console plates, providing a suitable wall console. Trays can be mounted screwlessly onto the consoles with spring clips.

For cantilevered installation of trays, heavy-duty consoles with extension widths of up to 1000 mm are also available.

Hanging consoles

Hanging consoles are available in both single and double versions. They are mounted directly to ceilings or floors and fitted with consoles using T-bolts, which carry the tray.

Support profiles

Using support profiles and M10 hanger rods, efficient support structures can be assembled. It is possible to mount several trays side by side or stacked vertically.

Claws and tray suspension brackets

A range of simple yet effective hanger rod suspension devices, which can usually be attached to the tray screwlessly.

Ceiling brackets

These form the ceiling-side connection for hanger rod suspension. Versions are available for both flat and sloping ceilings.

Suspension


















Rafterclamps

Used for attaching M10 hanger rods screwlessly to I- and H-beams.

Clamp brackets

Clamp brackets provide a suspension point on an H- or I-beam without the need for drilled fixing holes. Clamp brackets can also be assembled to the required length from individually available components.


Recommended support distances for Stago cable tray KG 281

Tray width	Practical maximum load in N/m	One-sided	Claw	Tray claw	Inside channel bracket	Tray bracket over-head	Channel bracket for tray cover	Outside channel bracket	C-bracket light duty	C-bracket heavy duty	C-bracket extra-heavy duty	Support beam	Wall bracket	Cantilever arm 50i	Vertical piece one-sided mounting	Vertical piece double-sided mounting
																
mm	N/m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
70	75	3	3	3	3	3	3	3	3	3	-	-	3	3	3	3
120	130	3	3	3	3	3	3	3	2.5	3	-	3	3	3	3	3
200	210	3	3	3	3	3	2	3	2	3	-	3	3	3	2.5	3
250	260	3	3	3	2	3	2	3	1.5	3	-	3	3	3	2	3
330	350	2	2	2	1	2	-	-	1	2	-	2	2	2	1.5*	2
400	420	2	2	2	-	-	-	-	1	-	3	2	2	2	1.5*	1.5
500	520	2	2	2	-	-	-	-	-	-	3	2	1.5	-	1.5*	1.5
600	630	2	1.5	2	-	-	-	-	-	-	2	2	-	-	1*	1

* When mounting 3 or more wall brackets to one single vertical piece, it must be reinforced with e.g. a pendant bar

Suspension

Suspension

Type	Surface treatment	Dimension AxB (mm) 	Kg /piece	Article No.
Tray bracket overhead				
For central suspension of cable trays with an M10 threaded rod. It is inserted into the beaded edge of the cable tray with a twisting motion (screwless). Enables high-precision adjustment of the height. QUICK FIT				
Tray bracket overhead 70	PG	56x26x72	0,100	CSU08101009
Tray bracket overhead 120	PG	56x26x122	0,160	CSU08112009
Tray bracket overhead 200	PG	56x26x202	0,250	CSU08123009
Tray bracket overhead 250	PG	56x26x252	0,310	CSU08134009
Tray bracket overhead 330	PG	56x26x332	0,405	CSU08135009
Tray bracket overhead 70 R1013	PG + RAL1013	56x26x72	0,100	CSU08101019
Tray bracket overhead 120 R1013	PG + RAL1013	56x26x122	0,160	CSU08112019
Tray bracket overhead 200 R1013	PG + RAL1013	56x26x202	0,250	CSU08123019
Tray bracket overhead 250 R1013	PG + RAL1013	56x26x252	0,310	CSU08134019
Tray bracket overhead 330 R1013	PG + RAL1013	56x26x332	0,405	CSU08135019
Channel bracket for tray cover				
For central suspension of cable trays with an M10 threaded rod, which must be fitted with a cover duct. It is secured with an M6x10 mounting screw in the side perforation of the cable tray. Covers can be installed under the bracket at a later stage.				
Channel bracket for tray cover. 70	PG	97x35x70	0,170	CSU08651000
Channel bracket for tray cover. 120	PG	97x35x120	0,198	CSU08652000
Channel bracket for tray cover. 200	PG	97x35x200	0,245	CSU08653000
Channel bracket for tray cover. 250	PG	97x35x250	0,275	CSU08654000
Channel bracket for tray cover. 70 R1013	PG + RAL1013	97x35x70	0,170	CSU08651010
Channel bracket for tray cover. 120 R1013	PG + RAL1013	97x35x120	0,198	CSU08652010
Channel bracket for tray cover. 200 R1013	PG + RAL1013	97x35x200	0,245	CSU08653010
Channel bracket for tray cover. 250 R1013	PG + RAL1013	97x35x250	0,275	CSU08654010
Inside channel bracket				
For central and concealed suspension of cable trays with an M10 threaded rod. Easy and quick suspension with a hammered M10 nut. Secure with an M6x10 mounting screw in the side perforation of the cable tray. Click the bracket into the cable tray.				
Inside channel bracket 70	PG	70x48x64	0,130	CSU08140709
Inside channel bracket 120	PG	70x48x114	0,175	CSU08141209
Inside channel bracket 200	PG	70x48x194	0,237	CSU08142009
Inside channel bracket 250	PG	70x48x246	0,278	CSU08142509
Inside channel bracket 330	PG	70x48x326	0,344	CSU08143309
Outside channel bracket				
For central suspension with an M10 threaded rod. The cable tray is clamped to the bracket on one side. The other side of the cable tray is secured with a Clamping spring CSU08440000, which is ordered separately.				
Outside channel bracket 70	PG	164x31x125	0,315	CSU08171000
Outside channel bracket 120	PG	164x31x175	0,370	CSU08172000
Outside channel bracket 200	PG	164x31x255	0,700	CSU08173000
Outside channel bracket 250	PG	164x31x305	0,780	CSU08174000
Outside channel bracket 70 R1013	PG + RAL1013	164x31x125	0,315	CSU08171010
Outside channel bracket 120 R1013	PG + RAL1013	164x31x175	0,370	CSU08172010
Outside channel bracket 200 R1013	PG + RAL1013	164x31x255	0,700	CSU08173010
Outside channel bracket 250 R1013	PG + RAL1013	164x31x305	0,780	CSU08174010

Suspension

Suspension



Type	Surface treatment	Dimension AxB (mm) 	Kg / piece	Article No.
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Clamping spring

For screwless mounting of cable trays to outside channel brackets CSU0817xxxx. Use one Clamping spring per outside channel bracket.

**QUICK
FIT**

Clamping spring	SS	68x37x10	0,068	CSU08440000
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C-bracket

For central suspension with an M10 threaded rod. The cable tray is fixed to the bottom of the C-bracket.

C-bracket 70 light	EG	153x92x35	0,330	CSU08171209
C-bracket 120 light	EG	153x142x35	0,520	CSU08172209
C-bracket 200 light	EG	153x222x45	1,080	CSU08173209
C-bracket 250 light	EG	153x272x45	1,240	CSU08174209
C-bracket 330 light	EG	153x352x45	2,000	CSU08175209
C-bracket 400 light	EG	153x422x45	2,280	CSU08176209

C-bracket 70 light R1013	PG + RAL1013	153x92x35	0,330	CSU08171219
C-bracket 120 light R1013	PG + RAL1013	153x142x35	0,520	CSU08172219
C-bracket 200 light R1013	PG + RAL1013	153x222x45	1,080	CSU08173219
C-bracket 250 light R1013	PG + RAL1013	153x272x45	1,240	CSU08174219
C-bracket 330 light R1013	PG + RAL1013	153x352x45	2,000	CSU08175219
C-bracket 400 light R1013	PG + RAL1013	153x422x45	2,280	CSU08176219

C-bracket heavy duty

For central suspension with an M10 threaded rod. The cable tray is fixed to the bottom of the C-bracket.

C-bracket 70 heavy duty	HDG	155x96x45	0,512	CSU08171200
C-bracket 120 heavy duty	HDG	155x146x45	0,643	CSU08172200
C-bracket 200 heavy duty	HDG	155x226x30	1,169	CSU08173200
C-bracket 250 heavy duty	HDG	155x276x30	1,335	CSU08174200
C-bracket 330 heavy duty	HDG	155x356x45	2,453	CSU08175200

C-bracket 70 heavy duty R1013	PG + RAL1013	155x96x45	0,330	CSU08171210
C-bracket 120 heavy duty R1013	PG + RAL1013	155x146x45	0,520	CSU08172210
C-bracket 200 heavy duty R1013	PG + RAL1013	155x226x30	1,080	CSU08173210
C-bracket 250 heavy duty R1013	PG + RAL1013	155x276x30	1,240	CSU08174210
C-bracket 330 heavy duty R1013	PG + RAL1013	155x356x45	2,000	CSU08175210

C-bracket extra heavy duty

For suspension with two M10 threaded rods. The cable tray can be secured with Support bracket CSU08060000 and M6x10 mounting screw.

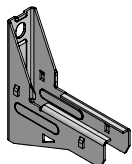
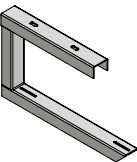
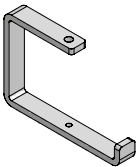
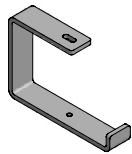
C-bracket 400 extra heavy duty	HDG	280x480x40	3,190	CSU14174000
C-bracket 500 extra heavy duty	HDG	280x580x40	3,655	CSU14175000
C-bracket 600 extra heavy duty	HDG	280x680x40	4,160	CSU14176000

C-bracket 400 extra heavy duty R1013	PG + RAL1013	280x480x40	3,150	CSU14174010
C-bracket 500 extra heavy duty R1013	PG + RAL1013	280x580x40	3,655	CSU14175010
C-bracket 600 extra heavy duty R1013	PG + RAL1013	280x680x40	4,160	CSU14176010

Wall bracket / support plate for 70 mm cable tray

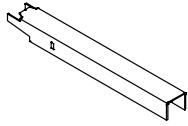
For wall mounting of a 70 mm cable tray. The 70 mm cable tray is secured with two CSU08490100 Clamping spring. Clip-on support bars create a lightweight wall bracket, suitable for cable tray widths up to 500 mm.


Wall bracket / support plate	PG	130x130x35	0,270	CSU08061000
Wall bracket / support plate R1013	PG + RAL1013	130x130x35	0,270	CSU08061010

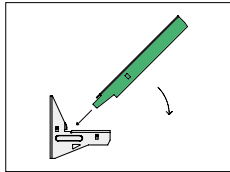


Suspension

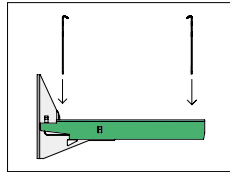
Suspension



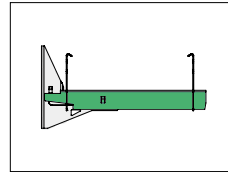
Type	Surface treatment	Dimension AxB (mm) 	Kg /piece	Article No.
Wall support bracket				
Combined with the CSU080610xx Wall bracket / support plate, it forms a lightweight wall bracket for mounting cable trays. The cable tray is attached to the Wall support bracket without screws using two Clamping springs CSU08490100.				
Wall support bracket 120	PG	30x187x38	0,210	CSU08060200
Wall support bracket 200	PG	30x267x38	0,320	CSU08060300
Wall support bracket 250	PG	30x317x38	0,390	CSU08060400
Wall support bracket 330	PG	30x397x38	0,500	CSU08060500
Wall support bracket 400	PG	30x467x38	0,590	CSU08060600
Wall support bracket 500	PG	30x567x38	0,720	CSU08060700
Wall support bracket 120 R1013	PG + RAL1013	30x187x38	0,210	CSU08060210
Wall support bracket 200 R1013	PG + RAL1013	30x267x38	0,320	CSU08060310
Wall support bracket 250 R1013	PG + RAL1013	30x317x38	0,390	CSU08060410
Wall support bracket 330 R1013	PG + RAL1013	30x397x38	0,500	CSU08060510
Wall support bracket 400 R1013	PG + RAL1013	30x467x38	0,590	CSU08060610
Wall support bracket 500 R1013	PG + RAL1013	30x567x38	0,720	CSU08060710



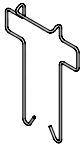
Plaatsen van de ondersteuningsbalk



Plaatsen van de klemveer



QUICK FIT



Clamping spring

For screwless mounting of cable trays on Support beam CSU0806xxxx.
Package of 25.

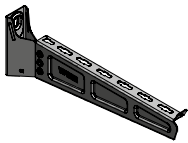
QUICK FIT

Clamping spring 25 PG + RAL1013s	SS	90x63x5	0,020	CSU08490100
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CantilEger arm 50i light

For wall-mounting cable trays up to 400 mm wide. For ceiling mounting in combination with a 2 or 2F vertical piece. Secure the cable tray with M6x10.

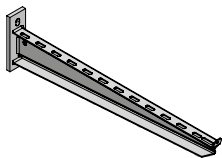
CantilEger arm 50i 100	PG	80x43x150	0,190	791416
CantilEger arm 50i 200	PG	85x43x250	0,290	791417
CantilEger arm 50i 300	PG	110x43x350	0,237	791418
CantilEger arm 50i 400	PG	115x44x450	0,278	791419



CantilEger arm 50 heavy duty

For wall-mounting cable trays on a protruding wall. Heavy-duty design. Secure the cable tray with two Support brackets CSU08060000.

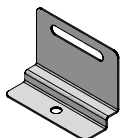
CantilEger arm 50 heavy duty 600	HDG	150x650x50	2,150	723439
CantilEger arm 50 heavy duty 800	HDG	160x850x50	3,350	727126
CantilEger arm 50 heavy duty 1000	HDG	170x1050x50	5,240	727128
CantilEger arm 50 heavy duty 600 R1013	PG + RAL1013	150x650x50	2,150	CSU14126019
CantilEger arm 50 heavy duty 800 R1013	PG + RAL1013	160x850x50	3,350	CSU14128019
CantilEger arm 50 heavy duty 1000 R1013	PG + RAL1013	170x1050x50	5,240	CSU14121019



Support bracket

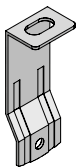
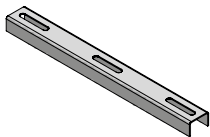
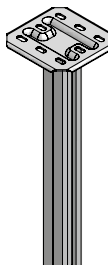
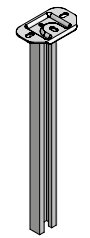
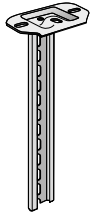
For mounting profiled cable trays on heavy duty cantilEger arm 50 with mounting screw M6x10.

Support bracket	PG	52x70x29	0,050	CSU08060000
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Suspension

Suspension



Type	Surface treatment	Dimension AxB (mm) 	Kg /piece	Article No.
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Vertical piece 2

For ceiling mounting of cable trays in combination with cantilever arm 50i light duty, which is attached on one side with T-bolt 26F M8x30.

Vertical piece 2 300	HDG	279x135x80	0,52	717191
Vertical piece 2 400	HDG	392x135x80	0,62	717192
Vertical piece 2 500	HDG	504x135x80	0,72	717193
Vertical piece 2 700	HDG	729x135x80	0,93	717194
Vertical piece 2 1000	HDG	1022x135x80	1,20	717195

Vertical piece single-sided 2F heavy duty

For ceiling mounting of cable ducts in combination with wall console wall plate CSU080610xx and support beam CSU0806xxxx, which are fixed on one side with T-bolt 26F.

Vertical piece 2F 279	HDG	279x135x80	0,800	717196
Vertical piece 2F 392	HDG	392x135x80	1,000	717197
Vertical piece 2F 504	HDG	504x135x80	1,300	717198
Vertical piece 2F 729	HDG	729x135x80	1,700	717199
Vertical piece 2F 1022	HDG	1022x135x80	2,200	717200

Vertical piece double-sided 20 heavy duty

For ceiling mounting of cable trays in combination with Wall bracket / support plate CSU080610xx and support beam CSU0806xxxx, which are fixed on 2 sides with T-bolt 26F.

Vertical piece 20 505	HDG	505x155x150	2,500	715723
Vertical piece 20 730	HDG	730x155x150	3,300	715724
Vertical piece 20 1000	HDG	1000x155x150	4,400	715725
Vertical piece 20 1495	HDG	1495x155x150	6,200	715726
Vertical piece 20 1990	HDG	1990x155x150	8,000	715727
Vertical piece 20 2980	HDG	2980x155x150	11,800	715728

Support beam

For double-sided ceiling mounting with two M10 threaded rods. The cable tray is fully enclosed, but can be additionally secured with an M6x10 mounting screw.

Support beam 120	PG	30x180x42	0,240	CSU08041200
Support beam 200	PG	30x260x42	0,385	CSU08043000
Support beam 250	PG	30x310x42	0,455	CSU08044000
Support beam 330	PG	30x390x42	0,515	CSU08045000
Support beam 400	PG	30x460x42	0,595	CSU08046100
Support beam 500	PG	30x560x42	0,775	CSU08047100
Support beam 600	PG	30x660x42	1,150	CSU08048100
Support beam 800	PG	30x860x42	1,773	CSU08047000
Support beam 1000	PG	30x1060x42	2,156	CSU08048000
Support beam 330	PG + RAL1013	30x390x42	0,515	CSU08045010
Support beam 400	PG + RAL1013	30x460x42	0,595	CSU08046110
Support beam 500	PG + RAL1013	30x560x42	0,775	CSU08047110
Support beam 600	PG + RAL1013	30x660x42	1,150	CSU08048110
Support beam 800	PG + RAL1013	30x860x42	1,773	CSU08047010
Support beam 1000	PG + RAL1013	30x1060x42	2,156	CSU08048010


Tray bracket one-side

For ceiling mounting of cable trays with an M10 threaded rod. It is attached to the side perforation of the cable tray using an M6x10 mounting screw. Can be mounted on both sides.

Tray bracket one side	PG	95x35x25	0,060	CSU08150100
Tray bracket one side R1013	PG + RAL1013	95x35x25	0,060	CSU08150110

Suspension

Suspension

Type	Surface treatment	Dimension AxB (mm) 	Kg /piece	Article No.
Tray claw				
For ceiling mounting of cable trays with an M10 threaded rod. It is screwless and installed into the side perforation of the cable tray. Can be mounted on both sides.				
Tray claw	PG	25x27x55	0,025	CSU08150300
Tray claw R1013	PG + RAL1013	25x27x55	0,025	CSU08150310
Claw				
For ceiling mounting of cable trays with an M10 threaded rod. It is screwless and installed into the beaded edge of the cable tray. Can be mounted on both sides.				
Claw	PG	58x45x44	0,050	CSU08150209
Claw R1013	PG + RAL1013	58x45x44	0,050	CSU08150219
Ceiling bracket light duty				
For ceiling mounting of cable trays with M10 threaded rod. Load capacity up to 600 N.				
Ceiling bracket light duty	PG	25x50x72	0,070	CSU08020000
Ceiling bracket light duty R1013	PG + RAL1013	25x50x72	0,070	CSU08020010
Ceiling attachment open				
For ceiling mounting of cable trays with M10 threaded rod. Load capacity up to 2400 N.				
Ceiling attachment open	HDG	50x40x35	0,095	CSU08020200
Ceiling attachment open R1013	PG + RAL1013	50x40x35	0,095	CSU08020210
Ceiling attachment adjustable				
For mounting cable trays on sloped ceilings with an M10 threaded rod. Load capacity up to 6000 N.				
Ceiling attachment adjustable	HDG	50x40x40	0,145	CSU08020100
Ceiling attachment adjustable R1013	PG + RAL1013	50x40x40	0,145	CSU08020110
Rafterclamp				
For mounting cable trays to H- and I-beams with an M10 threaded rod. Flange thicknesses from 2 to 20 mm - available in four sizes.				
QUICK FIT				
Rafterclamp 2-3 mm	SS	44x32x46	0,020	CSU08390100
Rafterclamp 4-7 mm	SS	44x32x48	0,020	CSU08390200
Rafterclamp 8-13 mm	SS	44x32x52	0,020	CSU08390300
Rafterclamp 14-20 mm	SS	44x32x58	0,020	CSU08390400
Clamp bracket				
For mounting with clamp connections to H- and I-beams, suitable for both horizontal and vertical use. Composed of a C profile, Filling plates, bolts and nuts. Clamps can also be assembled as needed from separately available components.				
Clamp bracket 170x12 mm	HDG	30x30x170	0,375	CSU08080100
Clamp bracket 230x12 mm	HDG	30x30x230	0,460	CSU08080200
Clamp bracket 290x16 mm	HDG	30x30x290	0,540	CSU08080300
Clamp bracket 350x16 mm	HDG	30x30x350	0,631	CSU08080400
C profile				
For self-assembly of Clamp brackets on H- and I-beams with Filling plate, slide nut and M6x30 bolt.				
C profile 30x30x6000	HDG	30x30x6000	0,970	CSU08430000
Filling plate				
For self-assembly of Clamp brackets on H- and I-beams with C profile, slide nut and M6x30 bolt.				
Filling plate 12 mm	HDG	25x36x14	0,045	CSU08450100
Filling plate 16 mm	HDG	25x36x18	0,048	CSU08450200

Mounting material

General

This group of materials includes components for the interconnections of the Stago cable tray system KG 281. It includes wire suspensions, bolts, and nuts. Metal shears are also included for cutting cable trays and fittings.

Wire suspensions and connection bushings

The most universal suspension for the Stago cable tray system KG 281 is the M10 wire suspension, which can be interconnected with connection bushings.

Mounting screws

These special screws have a round head to prevent the screw head from damaging the wiring in the cable tray. The round head should therefore be mounted on the inside of the cable tray.

Nuts, washers, and flanged nuts

Traditionally, washers and nuts can be used on the mounting screws. Flanged nuts are a combination of a washer and nut and provide significant labor savings.

T-bolts

These allow the connection between the hanging bracket and the wall bracket to be infinitely adjusted and fixed in place.

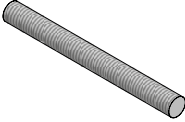
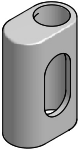
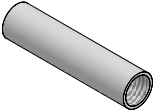




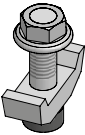
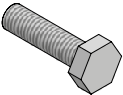
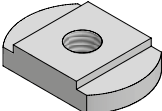
Stud bolt

This allows you to attach frog plates to profile beams using a sliding nut.

Slide nut

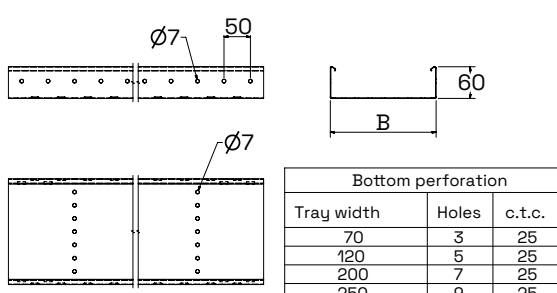
This allows you to attach frog plates to profile beams using a stud bolt.

Mounting material

Mounting material					
	Type	Surface treatment	M	Kg/stuk	Article No.
	Threaded rod				
	Universal cable tray support.				
	Threaded rod M10 x 2000	EG	10	1,000	CSU08050000
	Suspension rod lock B50				
	For length-adjustable coupling of M10 Threaded rod and horizontal alignment of cable trays. Supplied in a pack of 10.				
	Suspension rod lock M10, 10 pcs	PG	23x14x35	0,020	CSU08930200
	Threaded rod extension				
	For extending or connecting M10 threaded rods. Also suitable for subsequently expanding suspensions with an additional layer.				
	Threaded rod extension M10	EG	10	0,125	CSU08920000
	Nut				
	General-purpose fastener for cable trays and suspension systems. Packs of 100 pcs.				
	Nut M6, 100 pcs	EG	10	0,005	CSU08180000
	Nut flange				
	General-purpose fastener for cable trays and suspension systems. The flange is serrated, eliminating the need for an additional washer. Packaged in packs of 100.				
	Nut flange M6, 100 pcs	EG	6	0,010	CSU08461000
	Screw				
	General-purpose fastener for cable trays and suspension systems. The head is flat and rounded, preventing damage to cables. The inside of the head is serrated to prevent rotation. Packs of 100 pcs.				
	Screw M6 x 10, 100 pcs	EG	6	0,005	CSU08462000
	Washer				
	General-purpose fastener for cable trays and suspension systems. Packaged in packs of 100.				
	Washer M6, 100 pcs	EG	6	0,001	CSU08190000
	T-bolt 26F				
	For mounting cantilever arms on single 2F or double 20 vertical pieces. Includes flange nut.				
	T-bolt 26F M8x30	SS	8	0,045	734744
	Bolt				
	For mounting the Filling plate on an C profile				
	Tapbout M6x30, 100 pcs	EG	6	0,005	CSU08880000
	Slide nut				
	For self-assembly of Clamp brackets on H- and I-beams with Filling plate, C profile and M6x30 bolt.				
	Slide nut M6, 50 pcs	SS	6	0,010	CSU14500109

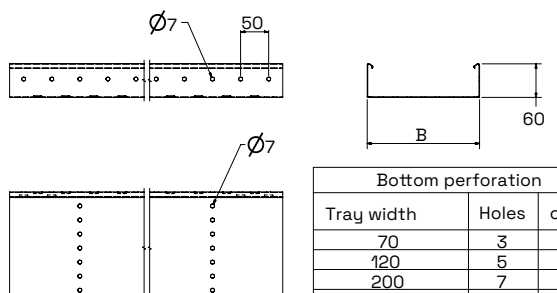
Measurements

Length material



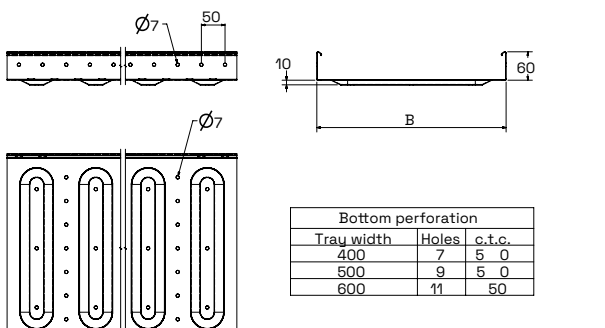
Tray width	Holes	c.t.c.
70	3	25
120	5	25
200	7	25
250	9	25

Perforated cable tray 0,8 mm



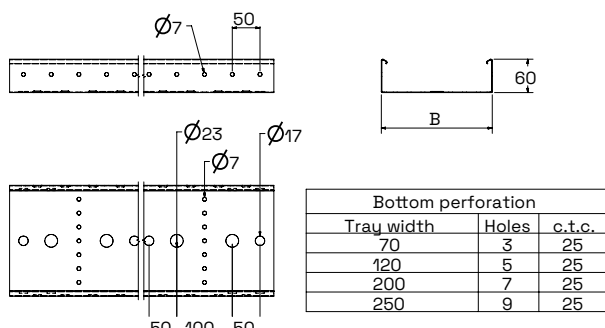
Tray width	Holes	c.t.c.
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120	5	25
200	7	25
250	9	25
330	13	25

Perforated cable tray 1 mm



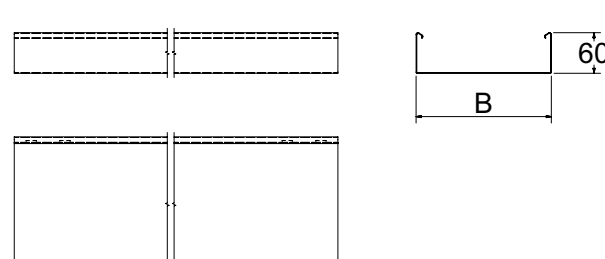
Tray width	Holes	c.t.c.
400	7	50
500	9	50
600	11	50

Perforated cable tray and profiled bottom

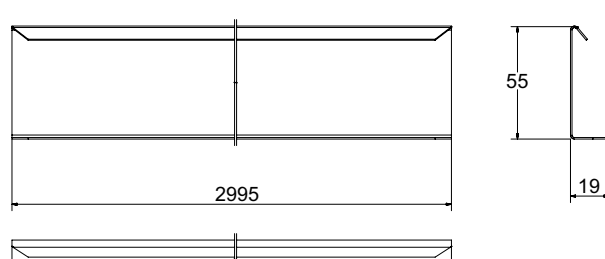


Tray width	Holes	c.t.c.
70	3	25
120	5	25
200	7	25
250	9	25

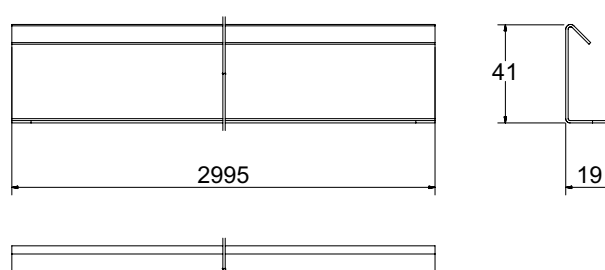
Perforated cable tray and knockout holes



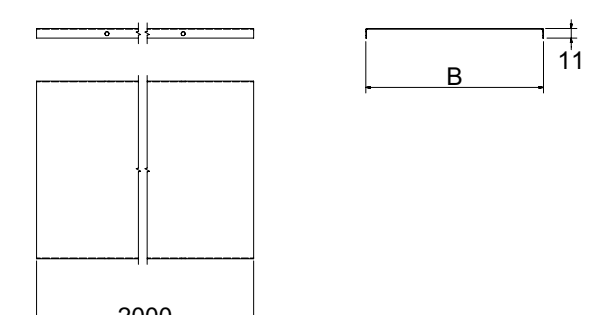
Unperforated cable tray



Separation wall



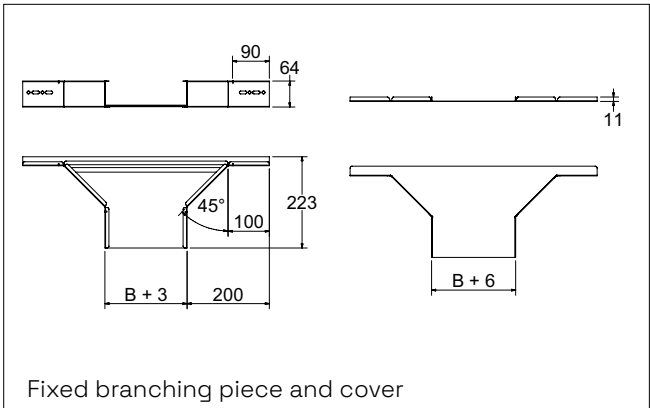
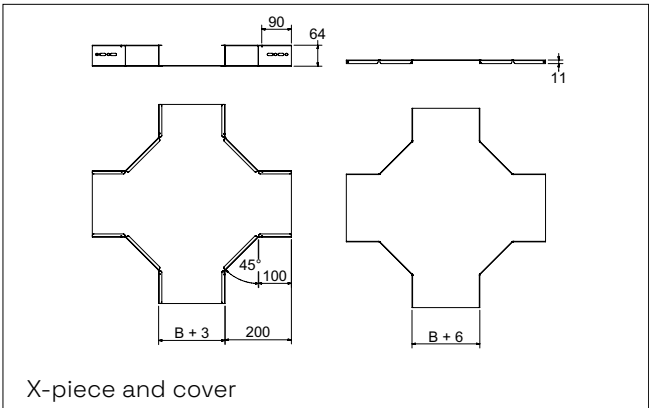
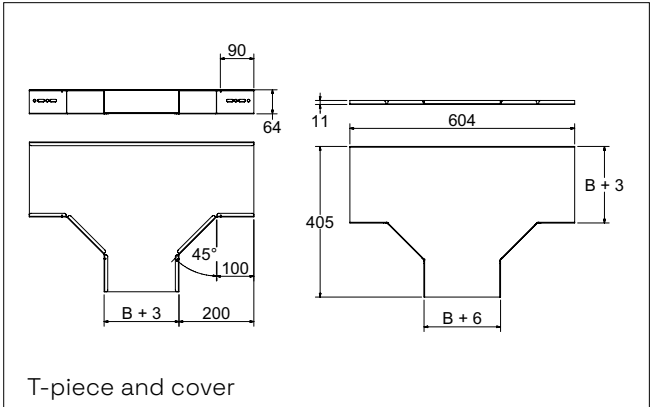
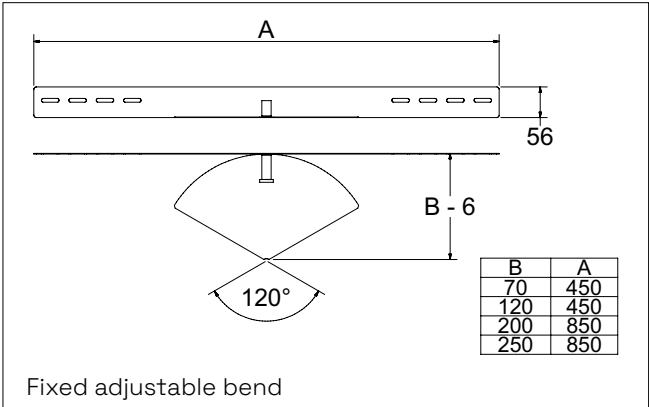
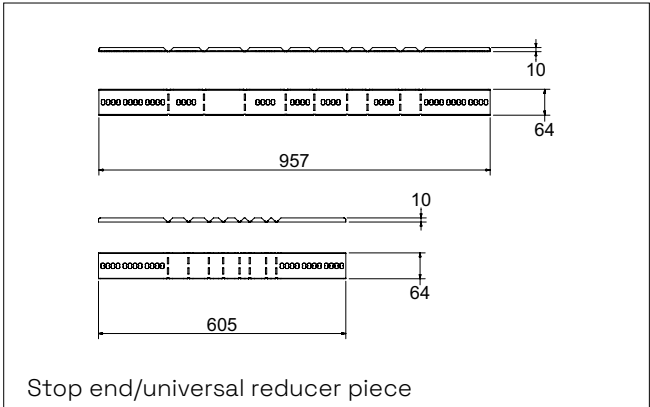
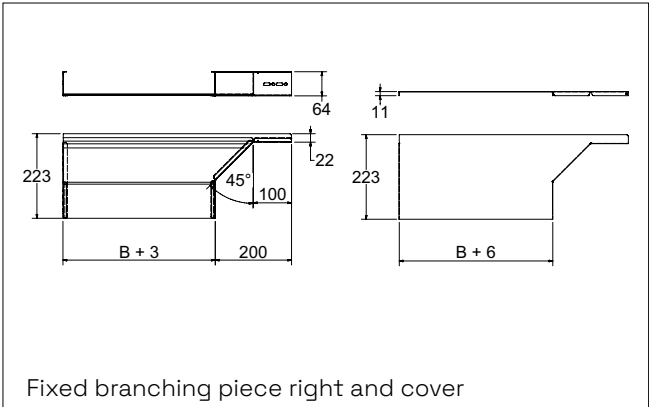
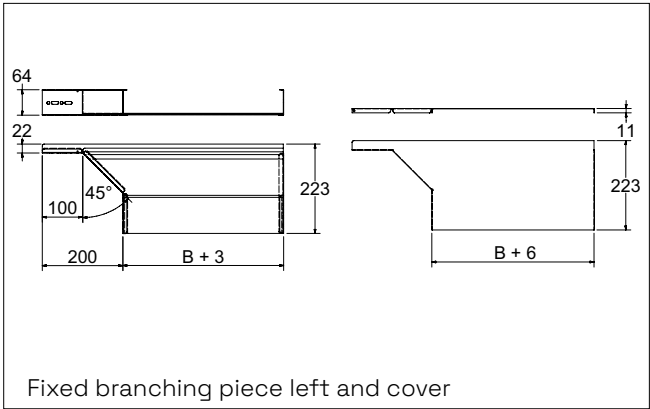
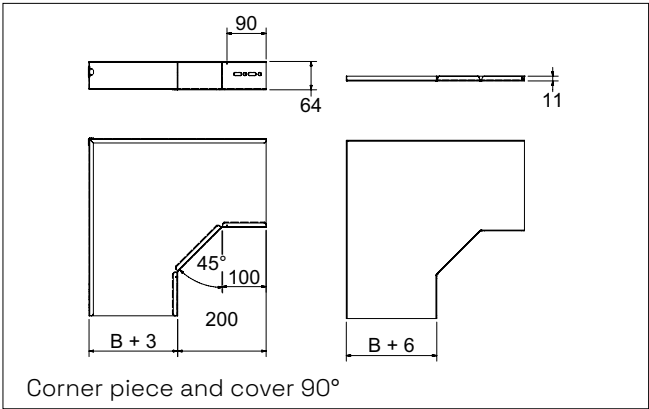
Separation wall for rung mounting



Cover

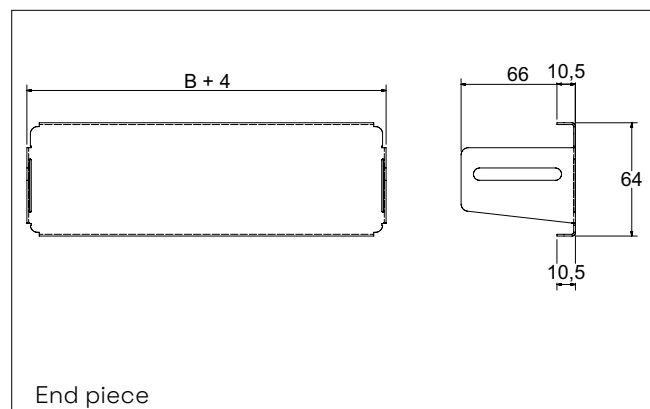
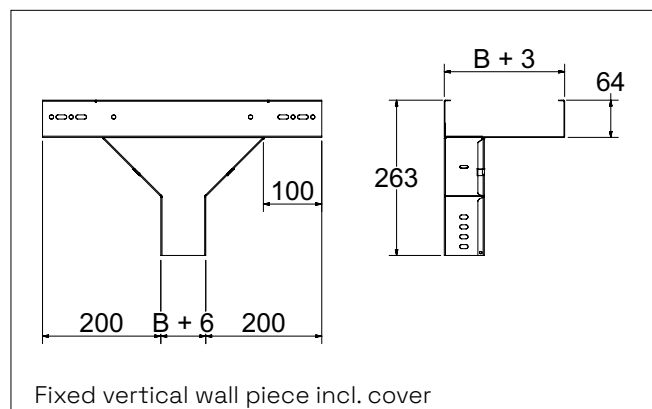
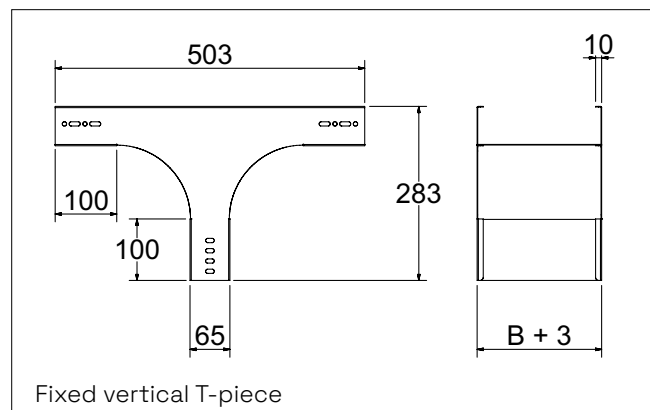
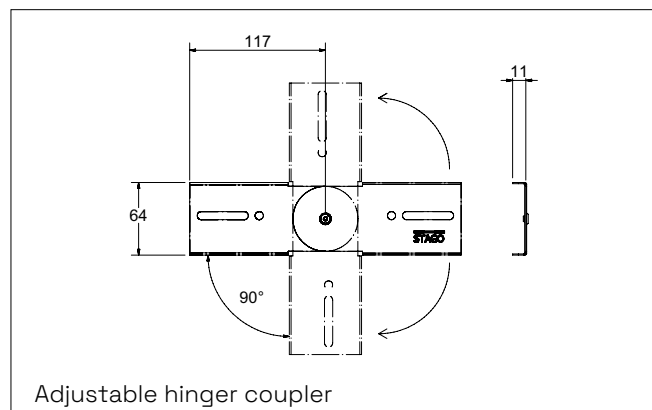
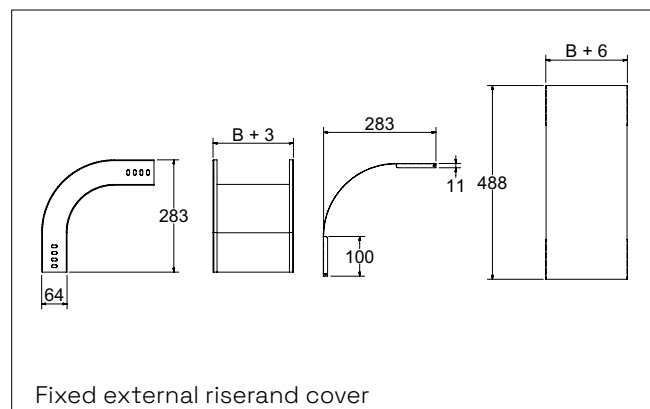
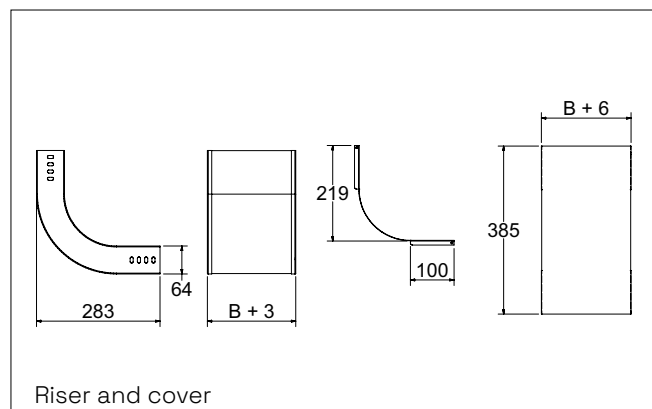
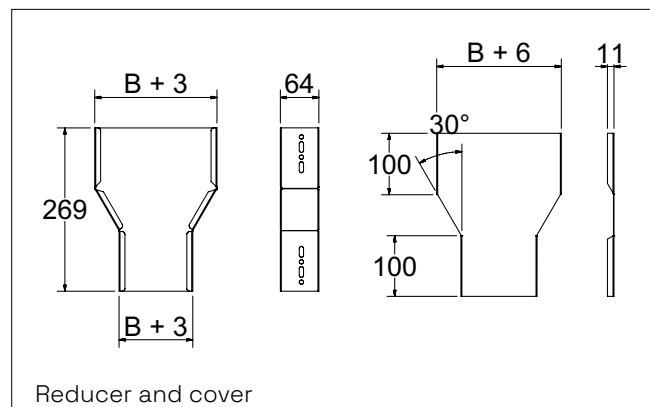
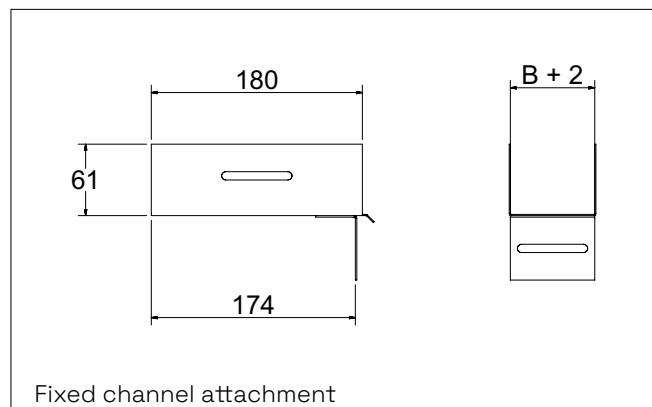
Measurements

Fixed accessories



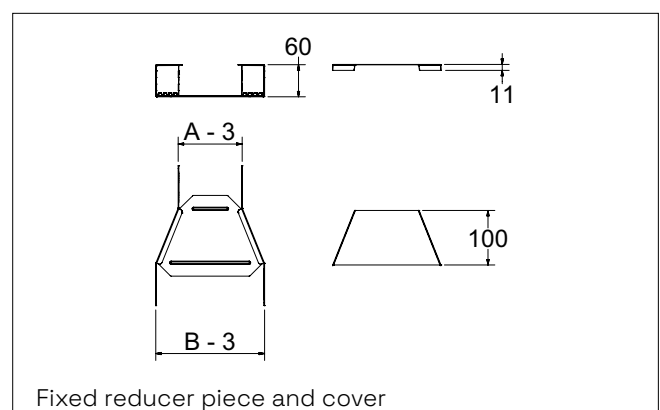
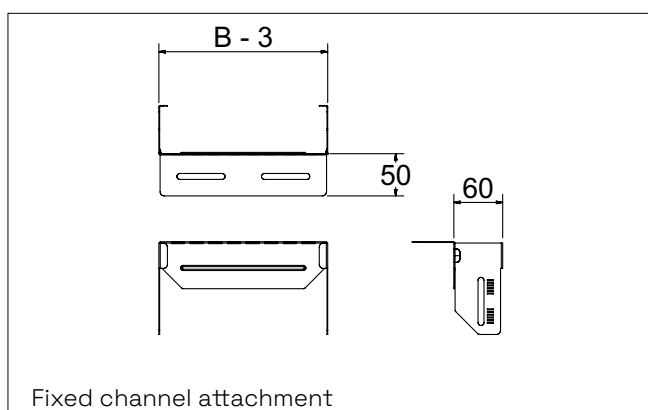
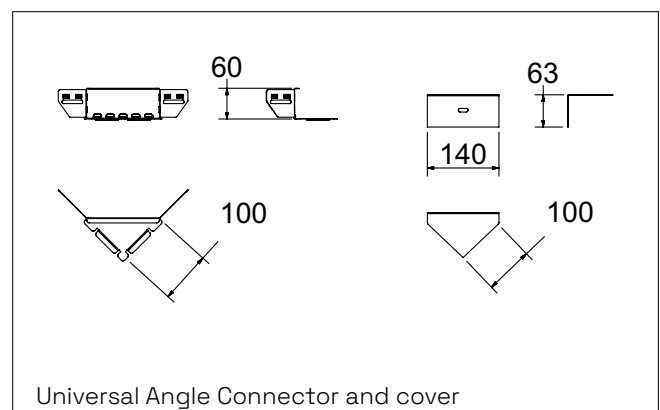
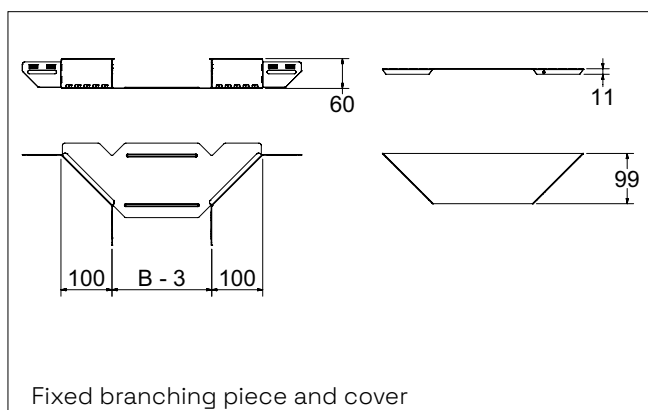
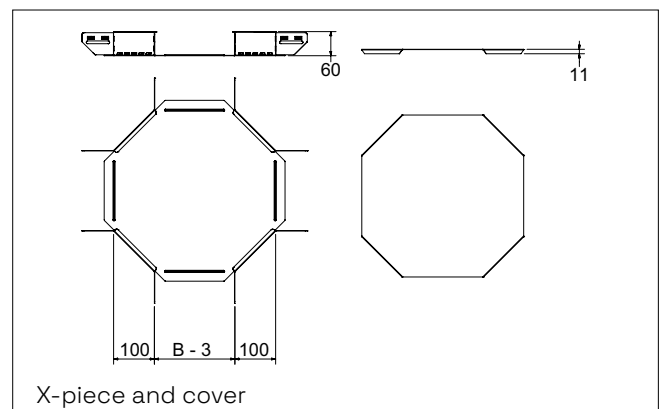
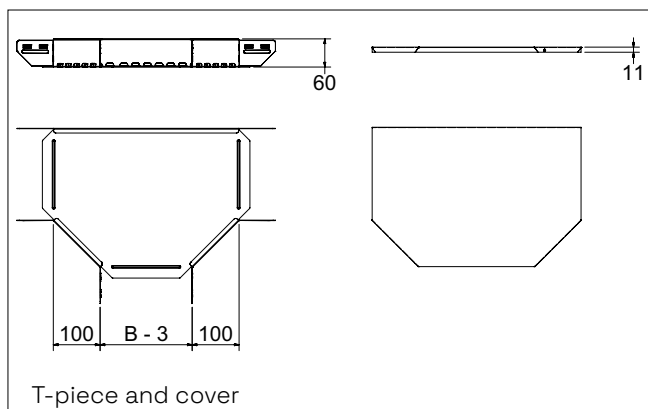
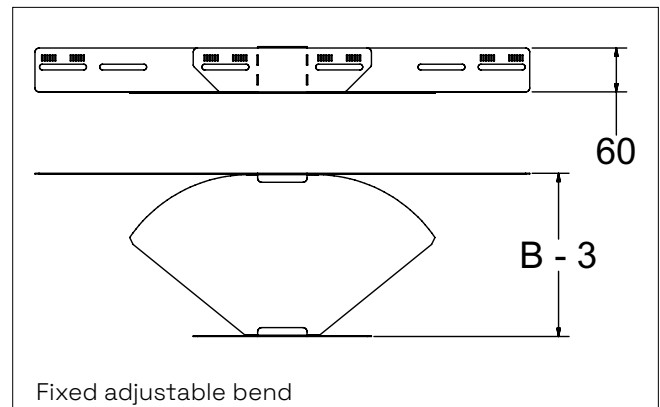
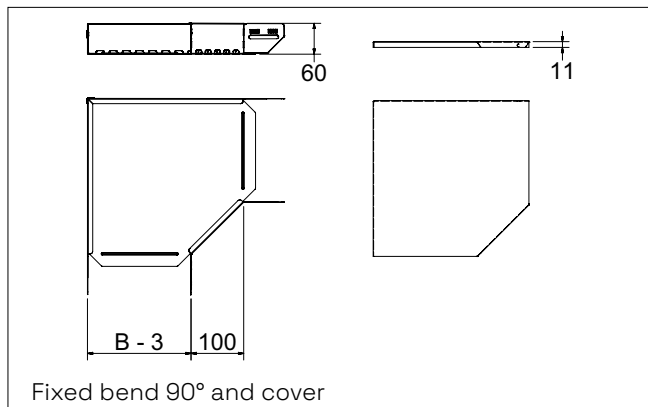
Measurements

Fixed accessories



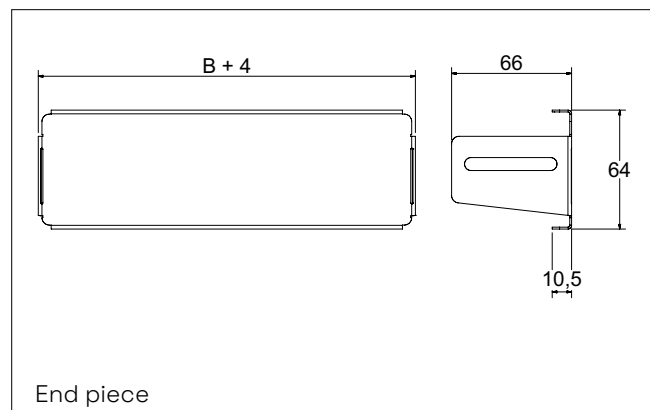
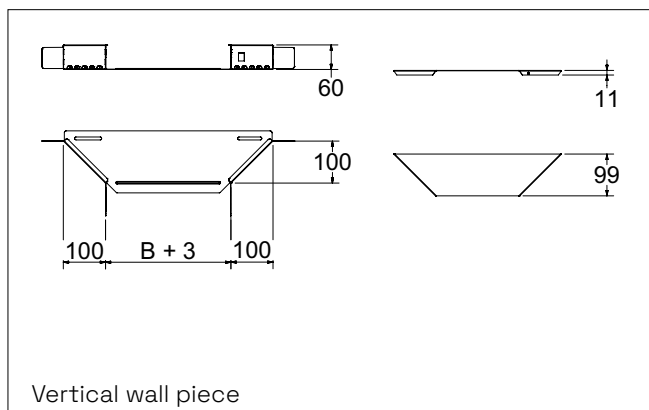
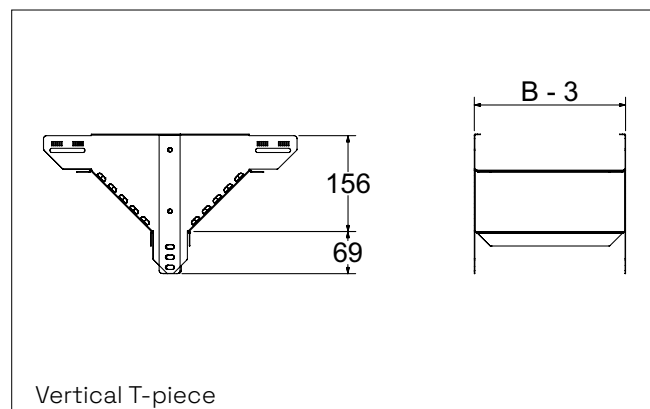
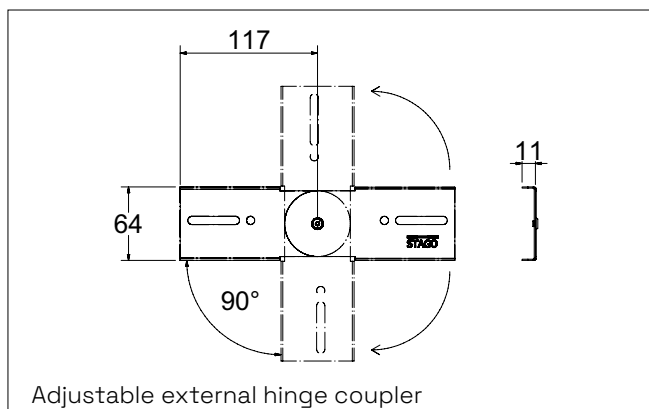
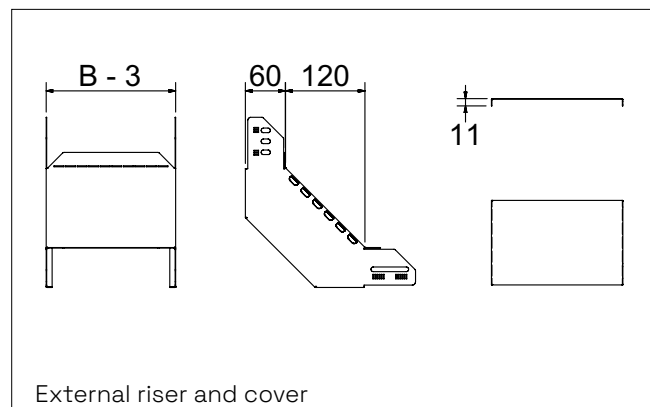
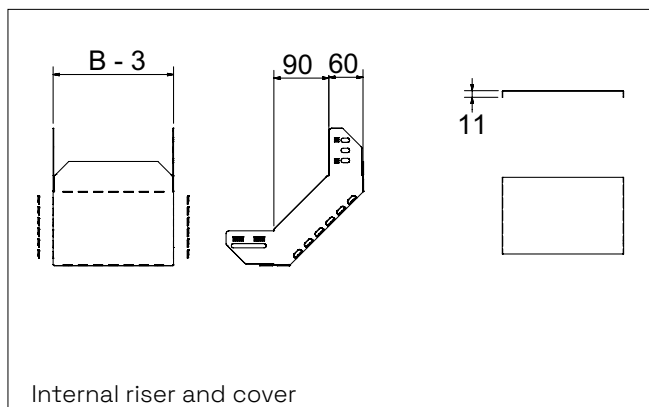
Measurements

Fixed accessories



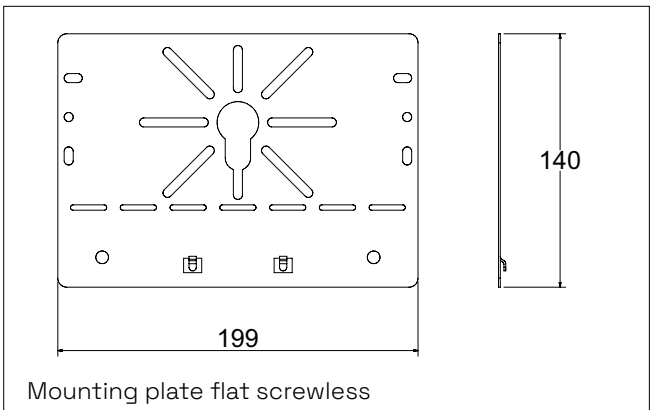
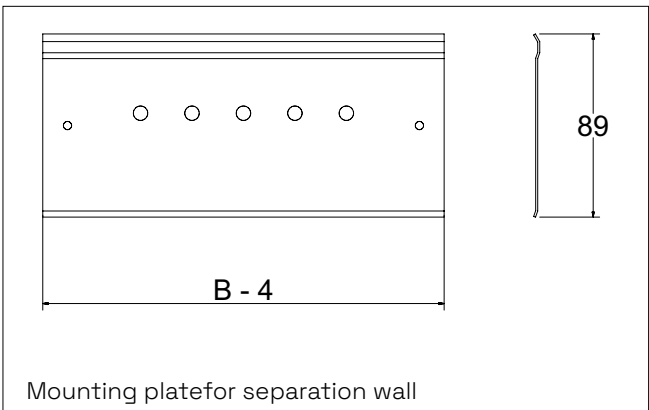
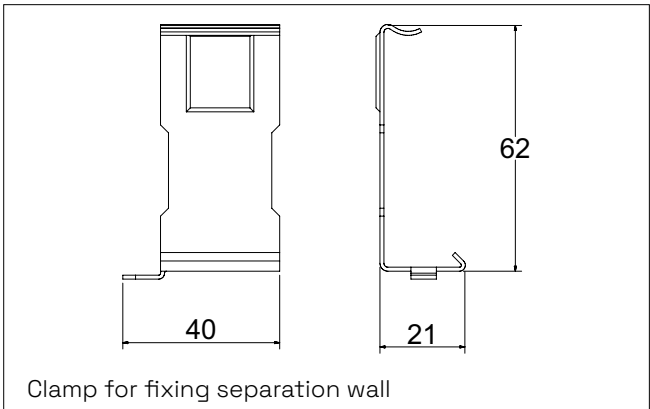
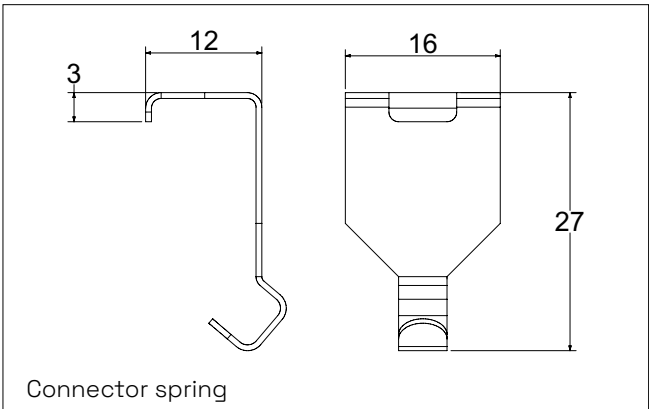
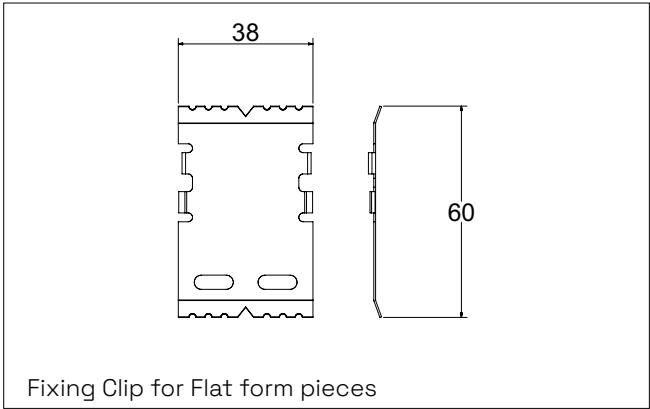
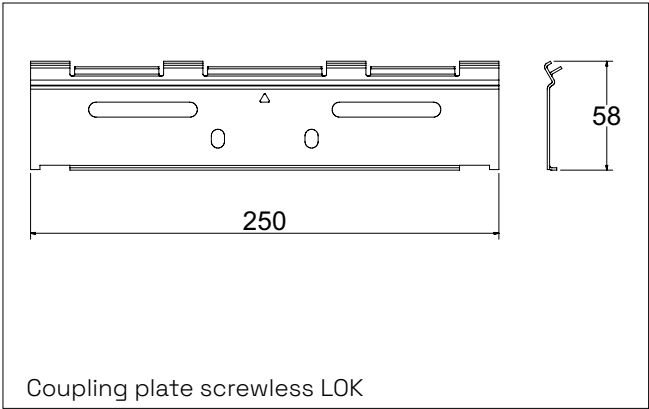
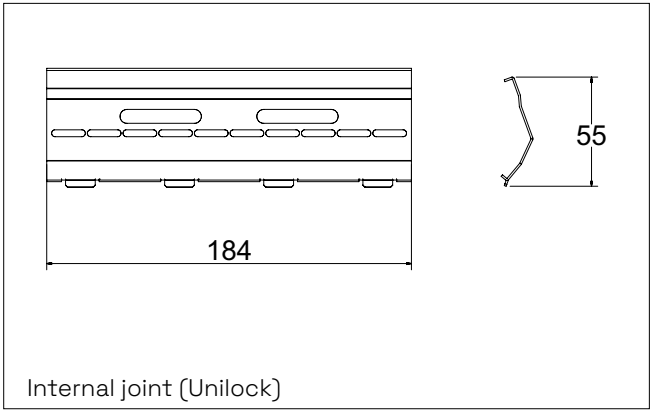
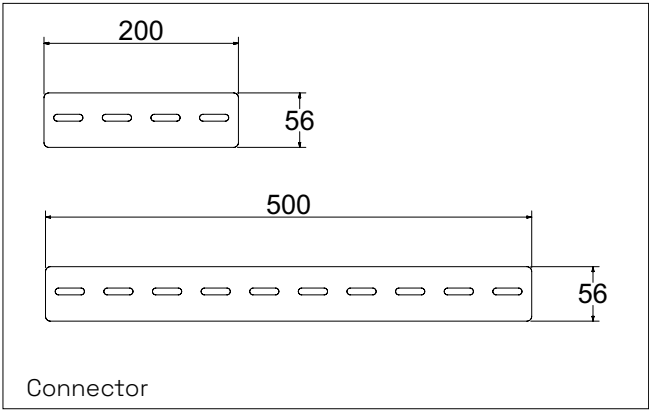
Measurements

Flat fittings



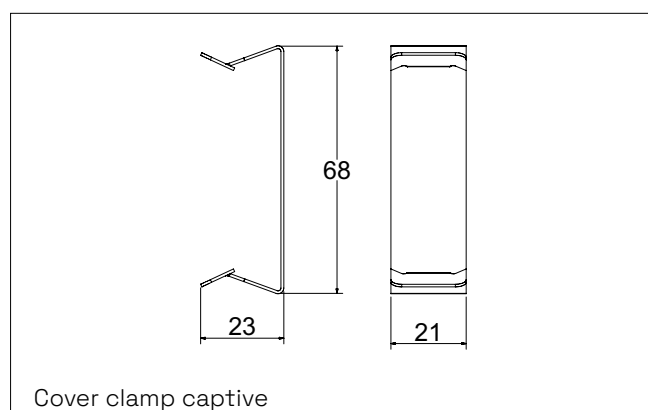
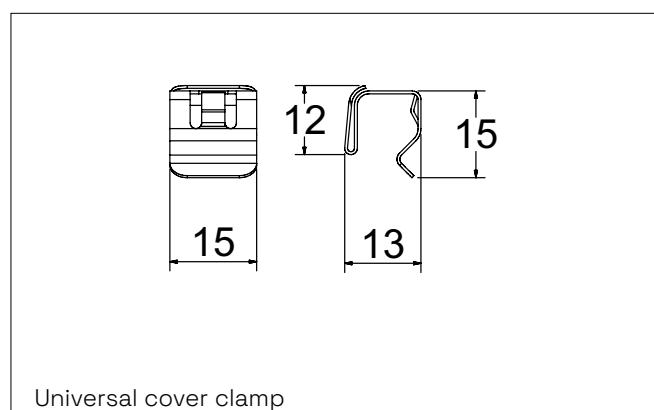
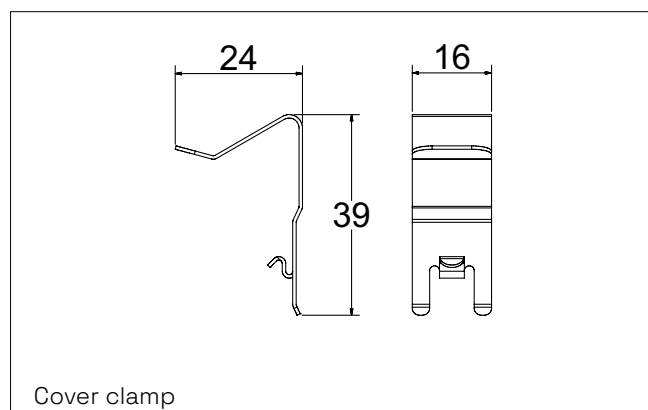
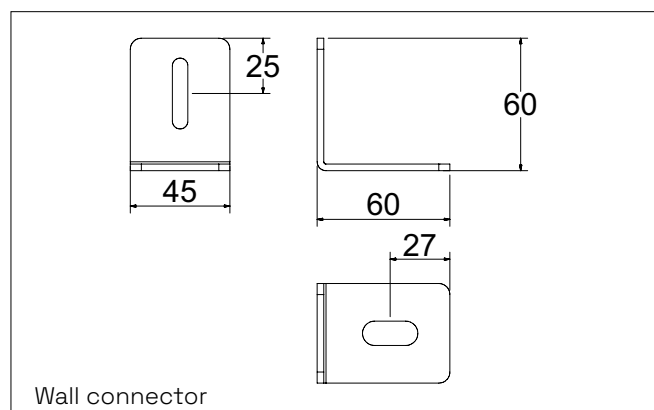
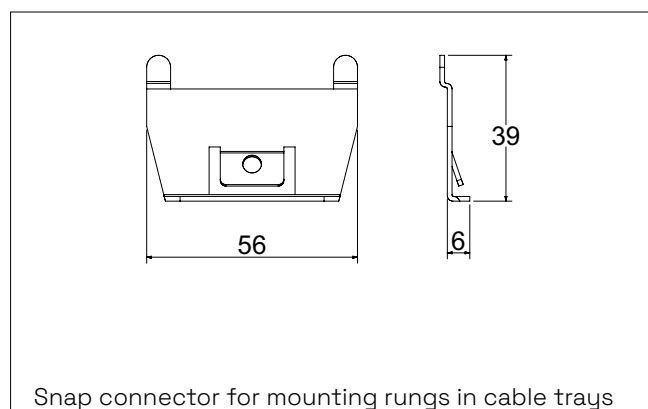
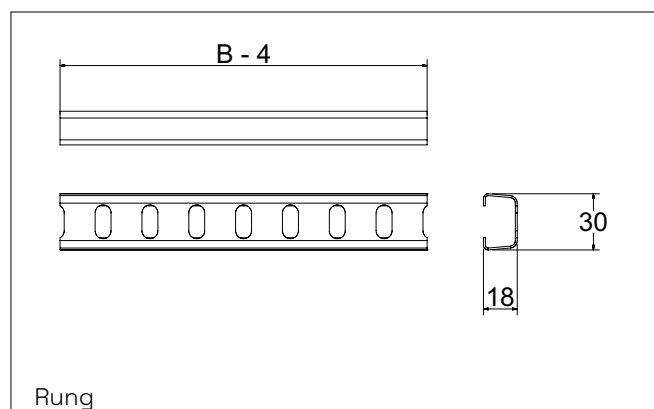
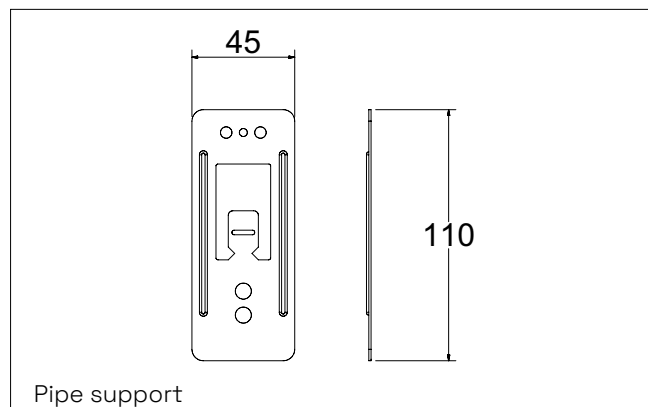
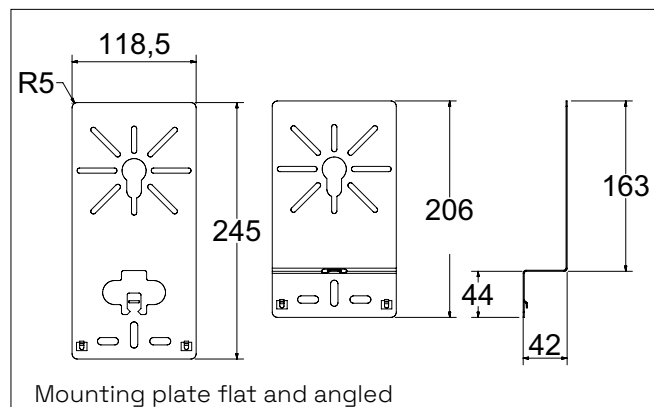
Measurements

Universal accessories



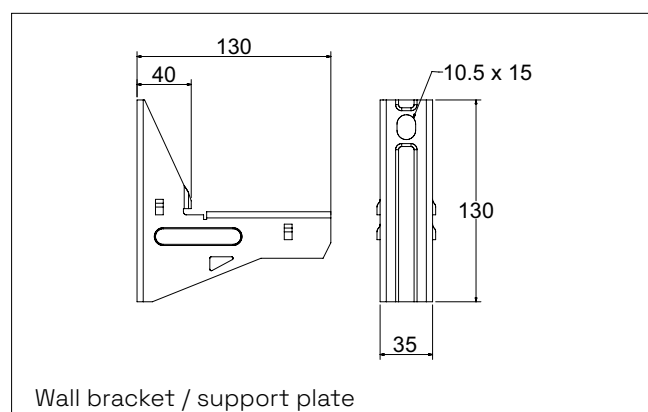
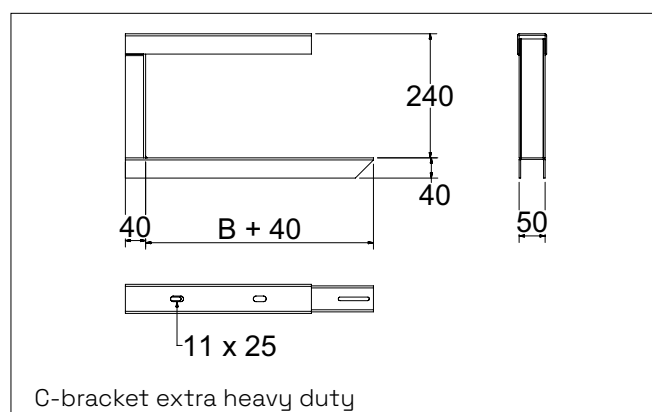
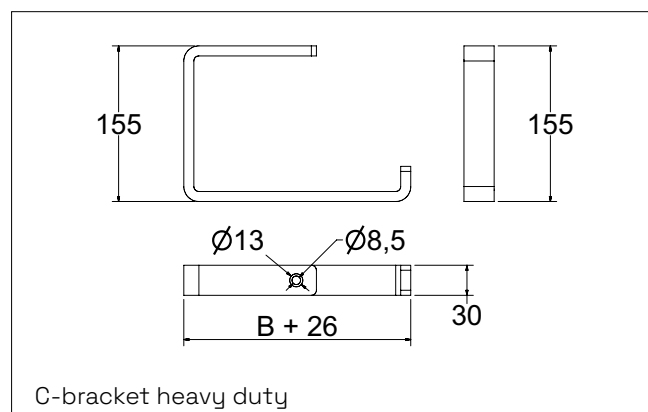
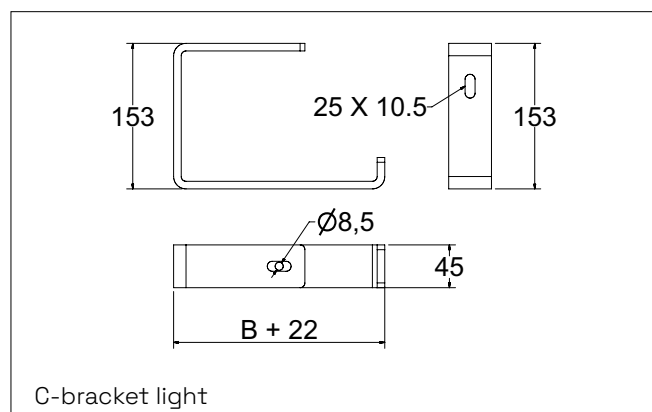
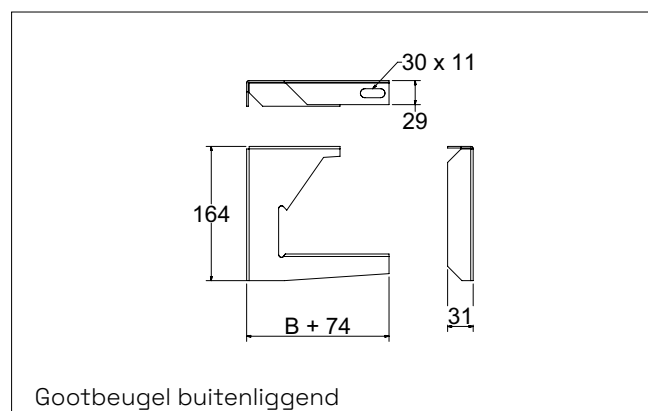
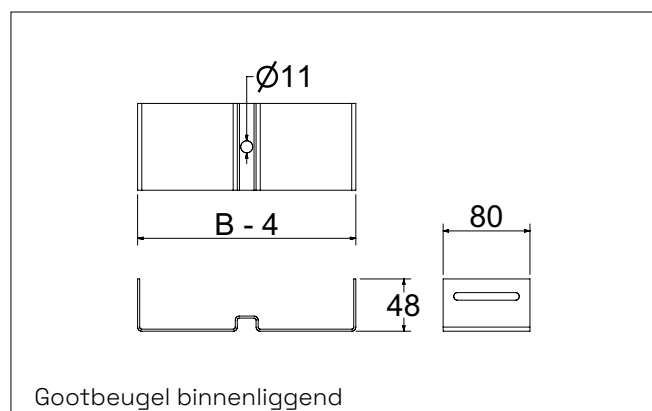
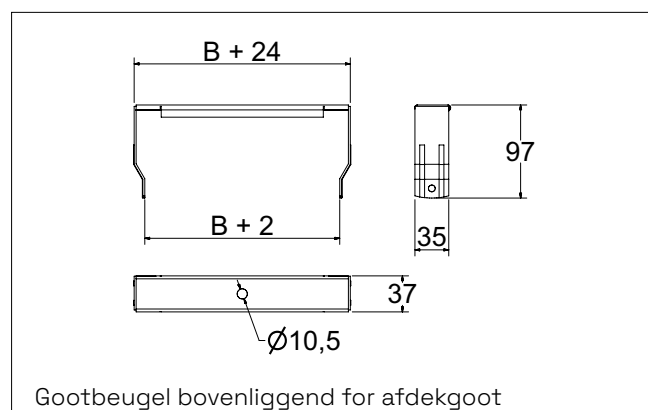
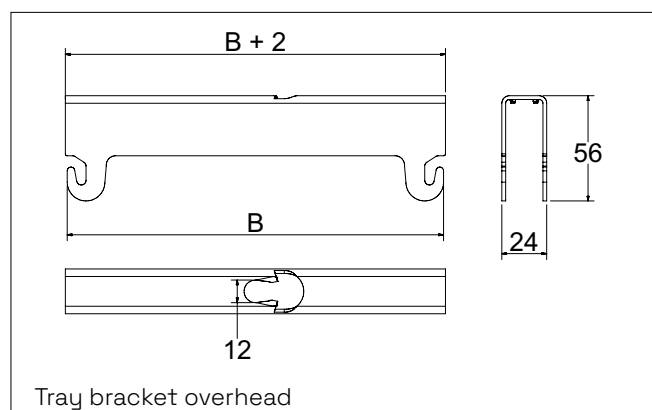
Measurements

Universal accessories



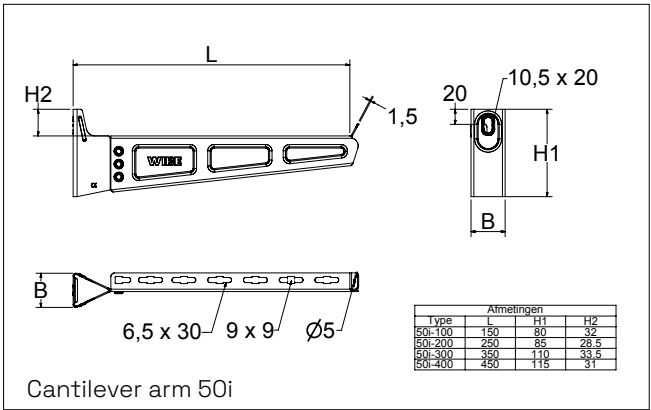
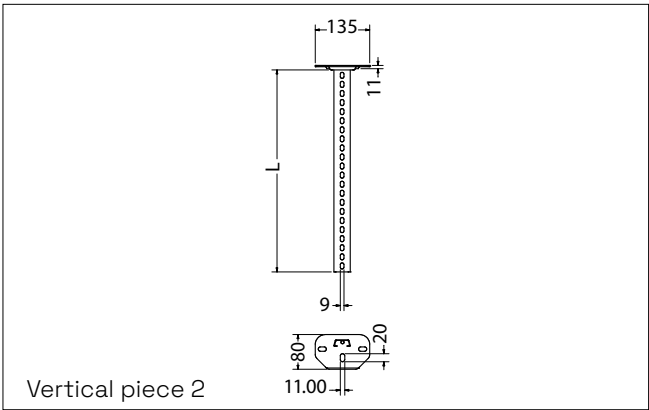
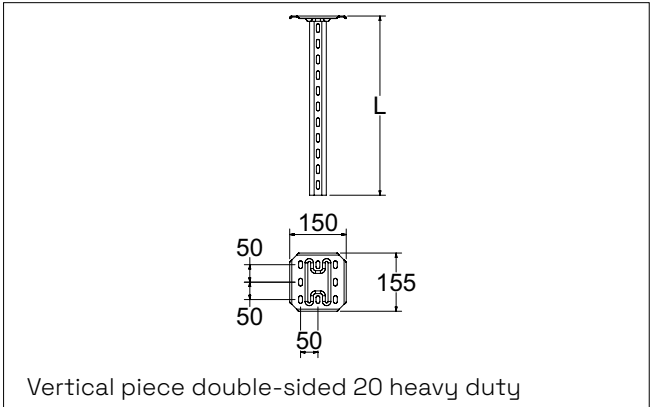
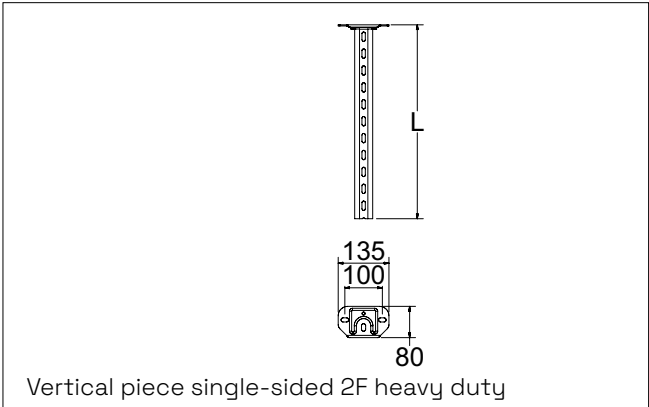
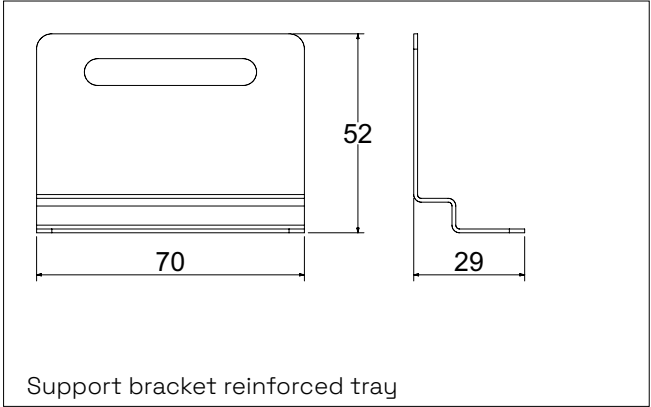
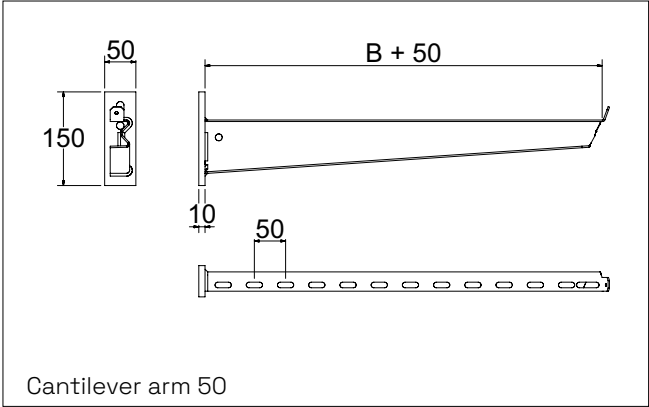
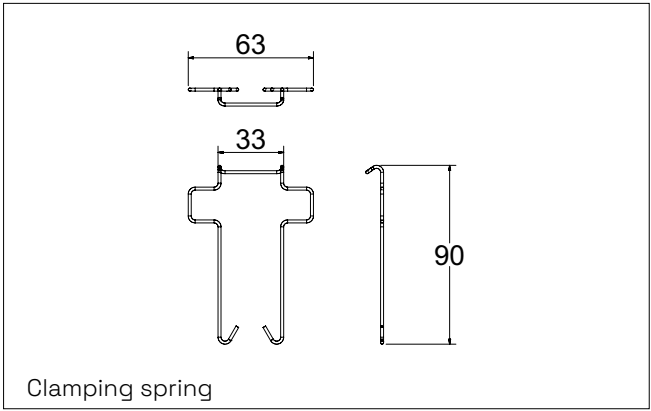
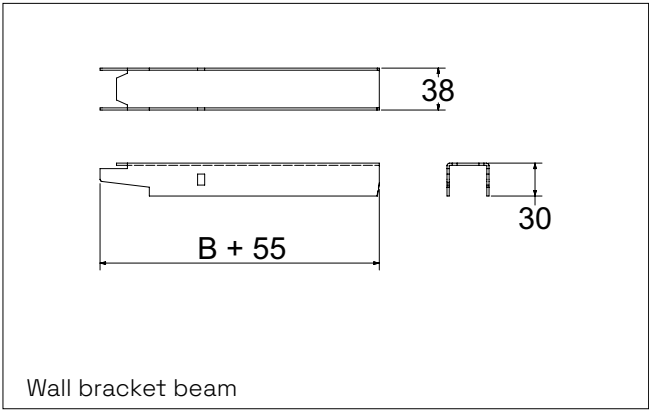
Measurements

Suspension



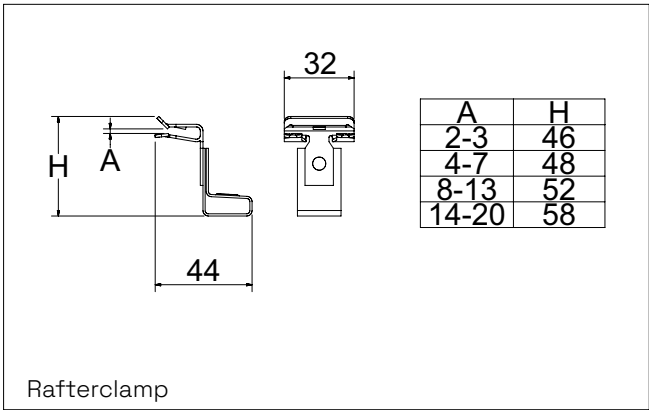
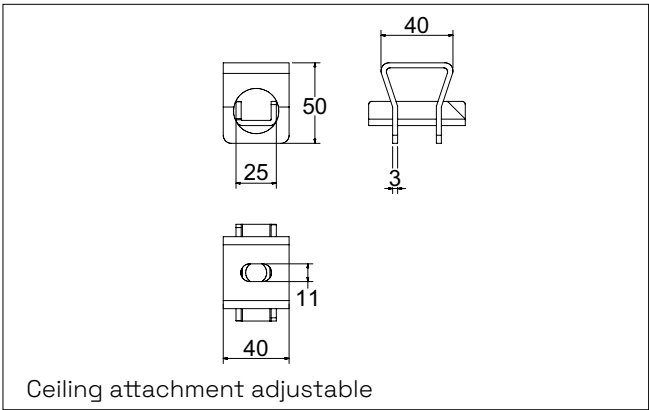
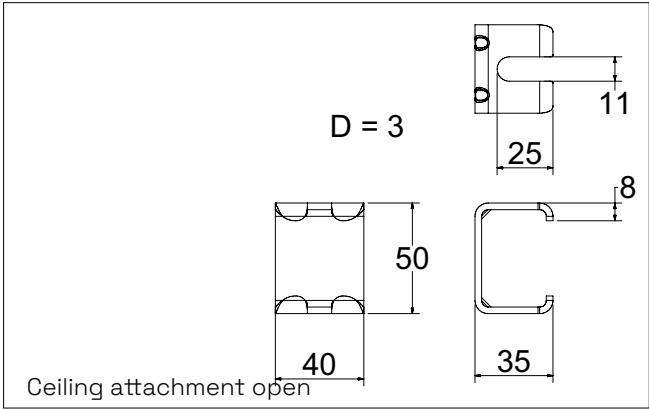
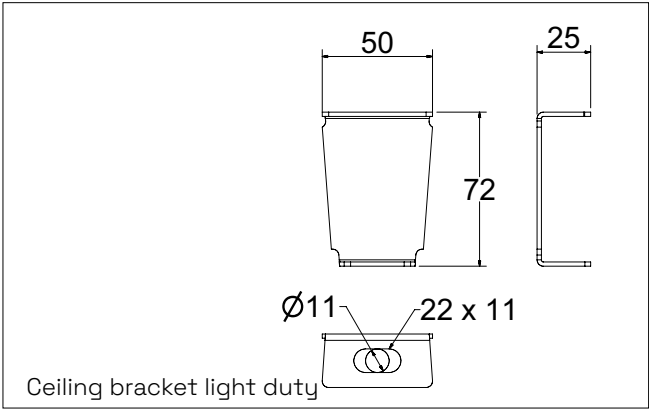
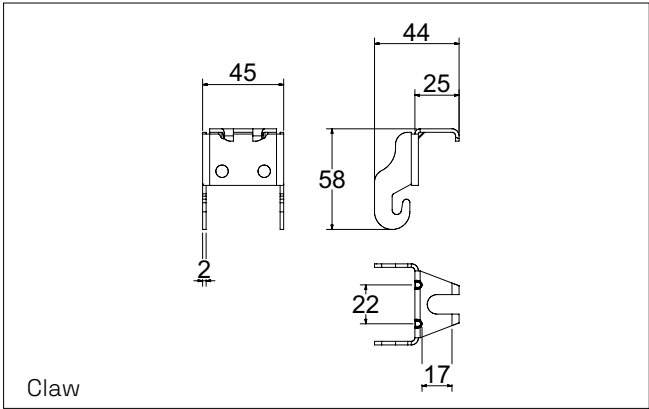
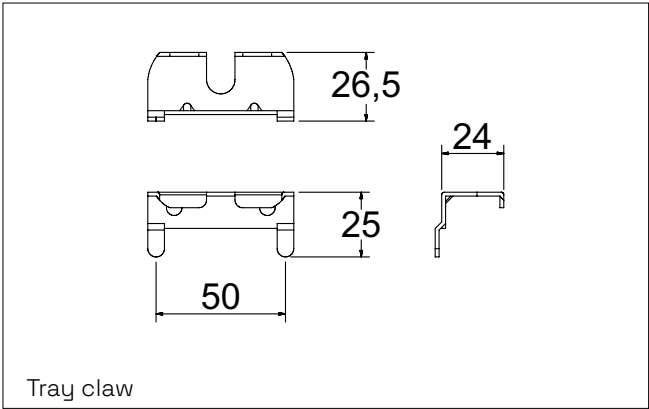
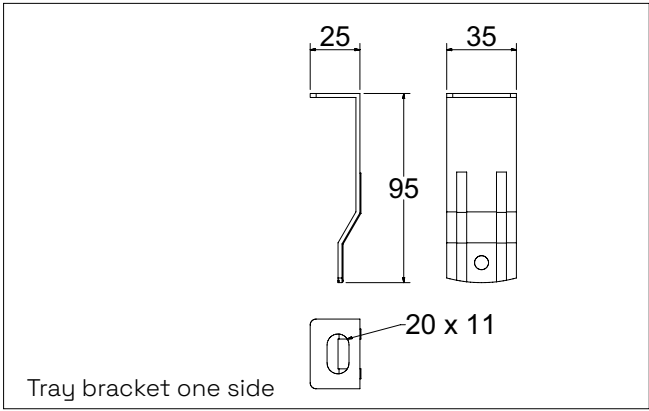
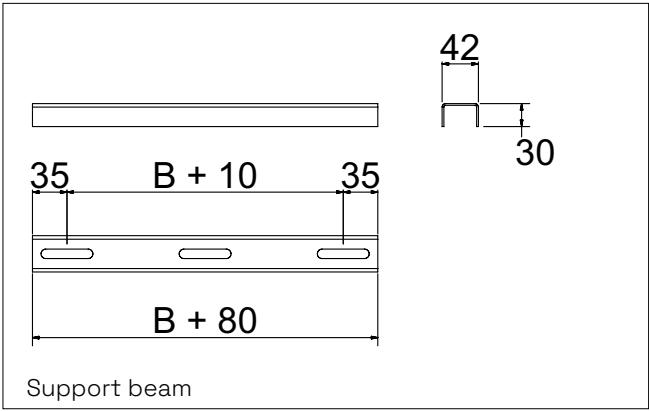
Measurements

Suspension



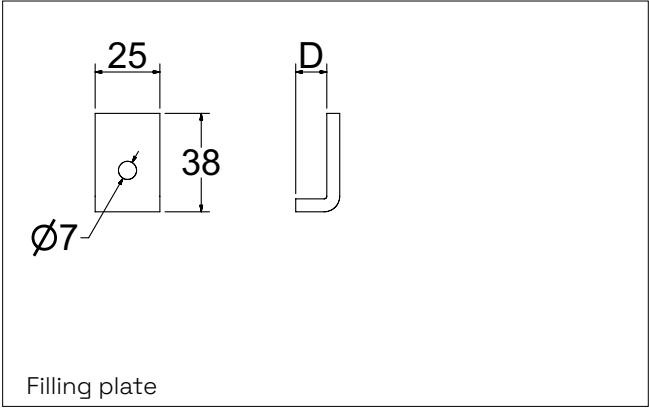
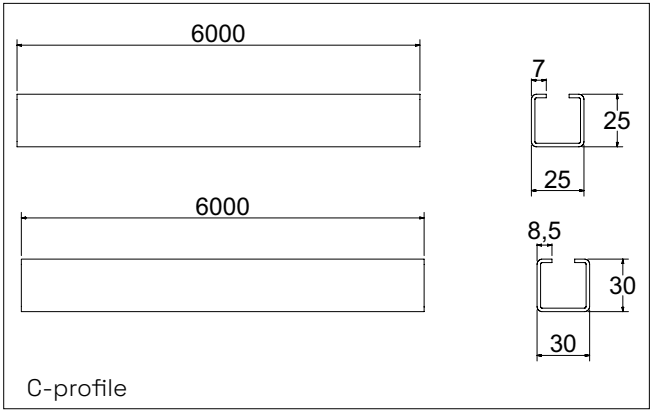
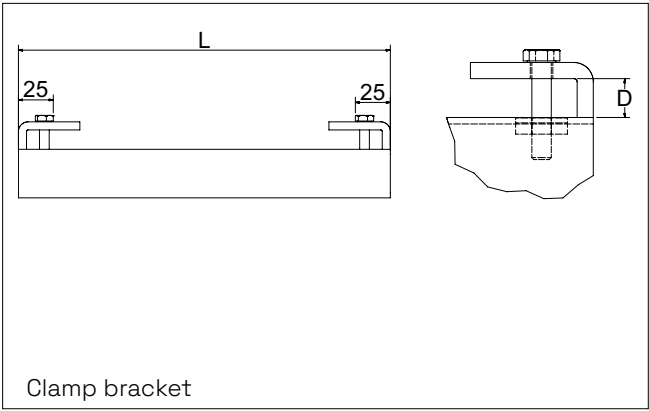
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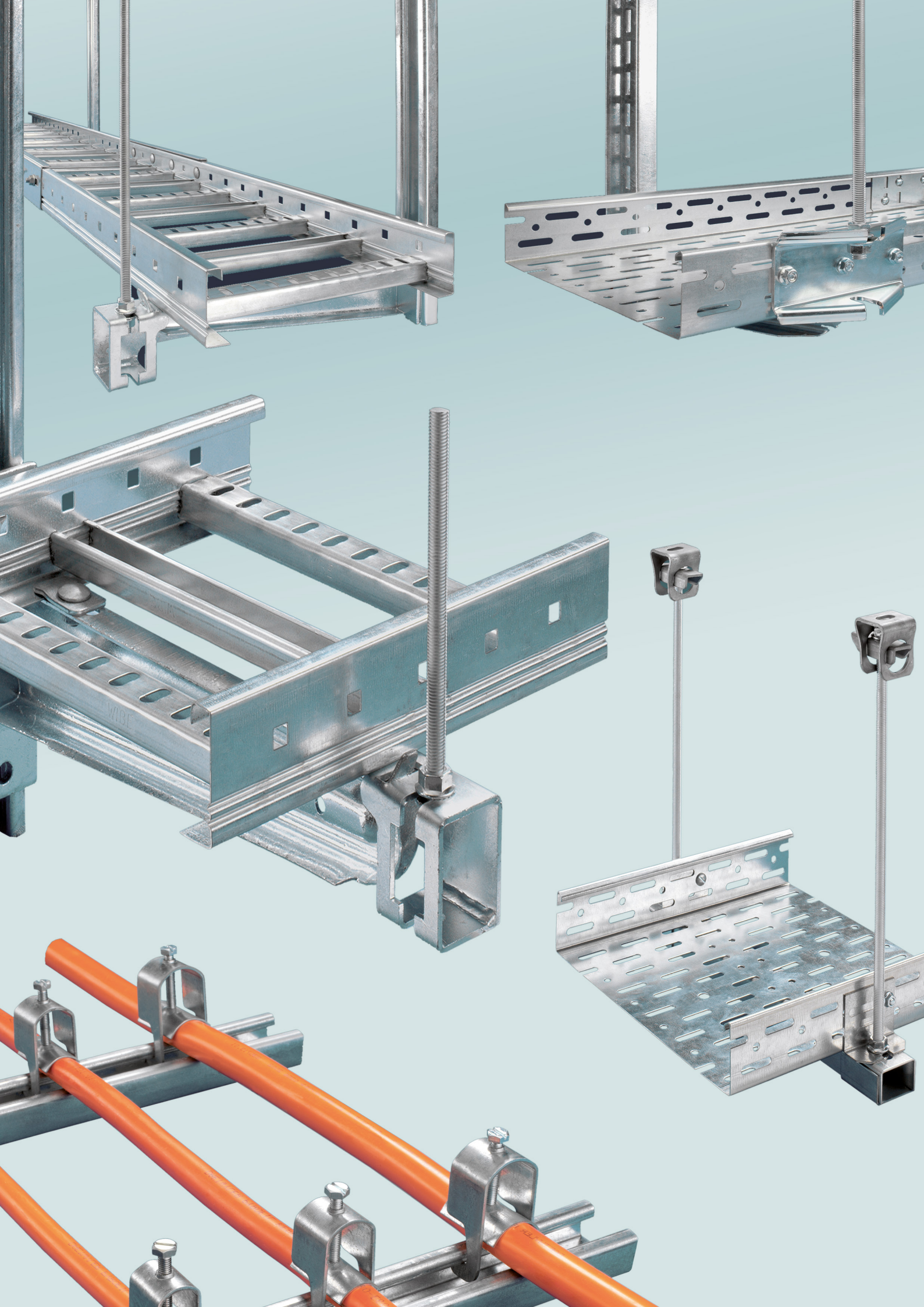
Suspension



Measurements

Suspension





Cable Support Systems with Fire-Resistant Functionality

General

What is fire-resistant functionality?

Fire disasters that result in loss of life capture everyone's attention. Often, a seemingly minor fire can have severe consequences due to smoke development. The suffocating smoke deprives people of the chance to reach safety in time. Notable examples include the fire disasters at Düsseldorf Airport, the Mont Blanc and Gotthard tunnels, and, in the Netherlands, the fires in Volendam and at Schiphol Airport. Time and again, smoke and the often extremely toxic gases prove to have a major impact on the chances of escape. Analysis of the causes and consequences of these disasters has led to new insights and measures aimed at drastically reducing the number of casualties in the future.

New building regulations now require the use of less flammable construction materials and installation components. Evacuation procedures and general fire safety regulations are also evolving rapidly. For electrical installers, a key aspect of this issue is ensuring the continued operation of certain critical components of the electrical installation. Even when cabling is located within the fire zone, systems such as fire alarms, evacuation systems, passenger and fire-fighting lifts, sprinkler systems, and similar installations must continue to function reliably.

The implementation of measures that ensure the continued operation of these critical systems is referred to as fire-resistant functionality. This can be defined as follows:

The implementation of measures that ensure certain devices and installation components continue to function for a specified period after the outbreak of a fire, with the aim of providing people with a means of escape.

Fire-resistant functionality can be achieved in various ways. One method involves enclosing cabling in fireproof architectural structures. However, in electrical engineering, the use of special types of cables installed with adapted support structures and mounting methods is becoming increasingly common.

When is fire-resistant functionality required?

Fire-resistant functionality is now an essential part of building design. Public buildings, where many people work or gather, are subject to strict safety regulations. The general aim is to use construction materials that produce minimal smoke and to design structures that maintain integrity for longer periods and prevent fire from spreading rapidly throughout the building.

General

Electrical installers also face safety regulations. In their field, strict requirements apply to the following installation components:

- Fire alarm systems
- Emergency lighting
- Escape route signage
- Alarm and public address systems
- Extraction and ventilation systems
- Passenger and fire-fighting lifts
- Sprinkler systems

These requirements are enforced through standards and technical specifications, as well as practical guidelines and fire brigade regulations. The installer bears significant responsibility, as extensive knowledge of applicable standards is expected.

Standards

Several key standards apply within electrical engineering. The NEN 1010 is considered the foundation for electrical installations. In addition, several specialised standards are crucial for fire-resistant functionality:

NEN 2535: Fire alarm systems

Lists cables that must be installed in such a way that the functionality of this system is guaranteed for at least 30 minutes. The relevant cables are described in detail.

NEN 2575: Evacuation systems

Also provides a detailed list of cables that must continue to function for at least 30 minutes after a fire alarm.

NEN 2443: Car parks

States that power cables for fire prevention systems must be positioned so that they continue to function for at least 60 minutes after a fire alarm.

VAS: Sprinkler systems

Specifies that power cables for sprinkler pumps must continue to function for at least 90 minutes after a fire alarm.

In addition to these standards for electrical installers, there are also important standards for manufacturers of installation materials. These include:

NEN 50265: Self-extinguishing cables

NEN 50266: Flame-retardant cables

NEN 50267: Halogen-free cables

NEN 50268: Low smoke cables

NEN 50200: Cables up to 20 mm with fire-resistant functionality

NEN 50362: Cables over 20 mm with fire-resistant functionality

DIN 4102, Part 12: Cable support structures with fire-resistant functionality

General

DIN 4102, Part 12

A special place in the field of fire-resistant functionality is held by the German standard DIN 4102, Part 12. In the Netherlands, this standard has been more or less adopted due to the absence of a comparable Dutch or European standard. Manufacturers of both cables and cable support systems refer to and test according to this standard. The reason is that it provides detailed descriptions of constructions, tests, and trials related to fire-resistant functionality.

The standard is based on the principle that cabling and its method of support are inextricably linked and together can ensure reproducible fire-resistant performance. It defines “standard cable support constructions” with precise specifications. The idea is that if a construction has proven itself through extensive testing, certain variations of it may also be installed. This also means that certified cable support systems may carry certified cables from other manufacturers. The reverse also applies, allowing for mutual interchangeability.

Standard Support Constructions According to DIN 4102, Part 12

According to DIN 4102, Part 12, a cable support construction is considered standard when the following main conditions are met:

- Maximum suspension/support distance: 1200 mm
- Maximum cable tray width: 300 mm; cable ladder width: 400 mm
- Cable tray perforation pattern: 15% ($\pm 5\%$)
- Side height of cable tray or ladder: 60 mm
- Steel sheet thickness: 1.5 mm
- Maximum cable load: 10 kg/m for trays, 20 kg/m for ladders
- Maximum rung spacing for ladders: 150 mm
- Suspension via hanging brackets with wall brackets
- Additional suspension using threaded rods attached to the bracket

When all materials of the cable support construction are successfully tested according to the precisely defined test method, a certificate is issued by the certification body.

Standard support constructions offer the major advantage that any certified cable from any manufacturer may be used within Stago cable support systems for fire-resistant functionality.

Cable-Specific Support Constructions According to DIN 4102, Part 12

To develop cost-effective cable support systems with fire-resistant functionality, more and more constructions are being designed and tested outside the specifications mentioned above. These are classified as non-standard or cable-specific support constructions, for which a certificate is also issued upon successful testing.

For these non-standard constructions, only the tested combination of cable and support system may be used internationally. However, in the Netherlands, mutual interchangeability of cables and support systems is permitted according to NPR 2576, Article E.2.1.

General

Classification System

A key aspect of DIN 4102, Part 12 is the classification of fire-resistant functionality into several categories.

These classes indicate the duration for which functionality is maintained:

- E30 – functionality maintained for 30 minutes
- E60 – functionality maintained for 60 minutes
- E90 – functionality maintained for 90 minutes

All relevant standards specify the class in which the cabling is categorised.

Recommendations Regarding Fire-Resistant Functionality

In addition to the standards mentioned earlier, several important recommendations related to fire-resistant functionality are also provided:

NTA 8012: Fire Risk Analysis of Electrical Installations

Offers a points-based methodology for assessing the fire risk of buildings. It also incorporates the European Construction Products Directive (CPD). The analysis prescribes the use of specific cables in buildings with fire risk.

NPR 2576: Practical Guideline for Fire-Resistant Functionality

Provides an overview of cable system solutions with fire-resistant functionality, as well as architectural solutions (e.g. protective enclosures) and technical solutions (e.g. ring circuits, fail-safe systems). Regarding cable solutions, the following criteria are outlined:

- Cables with fire-resistant functionality must be certified according to NEN-EN 50200, NEN-EN 50362, and DIN 4102, Part 12
- Cable support systems must be certified according to DIN 4102, Part 12
- Fastening materials must be certified according to DIN 4102, Part 2
- The performance requirement is determined by the lowest classification (30, 60, or 90 minutes)
- Deviations from installation distances specified in NEN 1010 are permitted, provided they are documented in the certificate
- Mechanical damage due to fire must be excluded
- Fire-resistant functionality cannot be guaranteed on plasterboard or steel profile walls
- The fire-resistant cable route must be labelled at strategic points

Additionally, local recommendations and rules must be considered, like the Recommendations of the Dutch Fire Brigade Federation and the VAS for sprinkler systems.

General



Test setup with cable ladders



Test setup with cable ladders after the 90-minute fire test



Test setup with cable trays



Test setup with cable trays after the 90-minute fire test

Fire Testing and Certification

Conducting fire tests is essential to verify whether specific cabling and cable support systems meet the required standards. These tests are carried out by specialised testing institutes authorised to issue certificates. A key requirement is the presence of a large furnace, as the aim is to simulate realistic fire conditions.

Test Procedure

In a spacious furnace (minimum dimensions: 3×2×2.5 m), a section of the installation is reconstructed as accurately as possible. Cable support systems, including all necessary suspension components and connectors, are mounted onto structural support frames. The standard support construction described in DIN 4102, Part 12 is used as a reference, or deliberately deviated from—always in a way that maximises the likelihood of success.

Cables are mounted onto the cable support systems and/or brackets. Typically, two power cables of 4×1.5 mm² and two of 4×50 mm² are used. For low-voltage cables, two of each type are also installed. Each cable includes an S-bend, secured with brackets within the support system. Every cable is connected to a power source (400 VAC for power cables, 110 VAC for low-voltage cables). Each circuit is protected by a fuse and equipped with current meters.

Additional ballast (steel chains or steel weights) is added to the cable support systems to simulate full load conditions of 10 or 20 kg/m. The furnace is ignited, reaching a temperature of approximately 1000°C after 90 minutes.

Depending on the classification (E30 or E90), the test is deemed successful if no short circuits or interruptions occur in the cable conductors.

The test setup and a detailed description of the materials used—both cables and support systems—are documented in a test report.

If the electrical installer uses the specified materials and installs them according to the certified method, sufficient assurance is provided for fire-resistant functionality.

Wibe Group conducts fire behaviour testing of structural materials at IBMB MPA Braunschweig in Germany, TNO Delft, and KEMA Arnhem. These renowned institutes have extensive experience with the fire tests and certifications described above.

General



IBMB MPA in Braunschweig

Commercial and Industrial Installations

The applicable standards primarily address fire-resistant functionality in public buildings such as hospitals, theatres, museums, metro lines, airports, department stores, office buildings, and schools. However, fire-resistant functionality is also relevant in industrial environments. The controlled shutdown of industrial production processes is often critical to prevent disasters beyond fire alone.

In such cases, no general standards apply; instead, solutions must be tailored to the specific production process and circumstances.

Mounting Techniques

Cable brackets and support systems must be securely mounted to walls and/or ceilings, which themselves must be sufficiently fire-resistant.

The mounting materials must also be certified by the manufacturer. While many established manufacturers offer certified mounting materials for fire-resistant functionality, Stago includes several wall anchors and impact anchors in its range that have proven highly effective in practice. These materials are, of course, also certified.

Certificates for Fire-Resistant Functionality

The materials described in this catalogue are certified by IBMB MPA Braunschweig, TNO Delft, and KEMA Arnhem.

The relevant certificates are registered under the following numbers:

3201/3363-1

Cable installation on ladder trays, standard support construction

3201/3363-2

Cable installation on cable trays, standard support construction

3201/3363-3

Cable installation on vertical ladder trays and C-profiles, standard support construction

P-3147/2424-MPA BS

Cable-specific support constructions

2004-CVB-R0376 TNO

Special support constructions

P-3537/421/09-MPA BS

Special support constructions with Mesh trays

Copies of these certificates are available upon request.

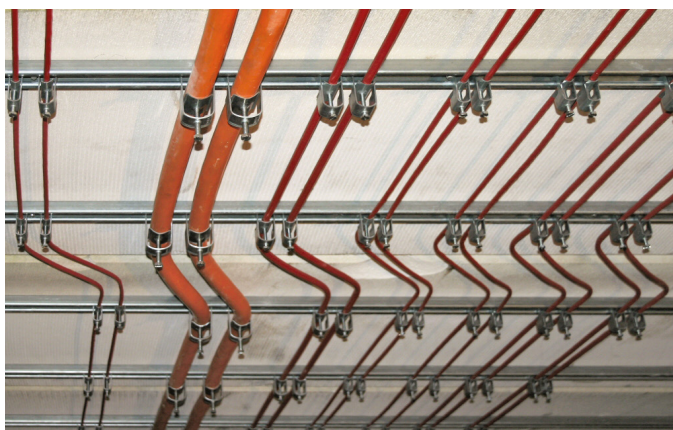
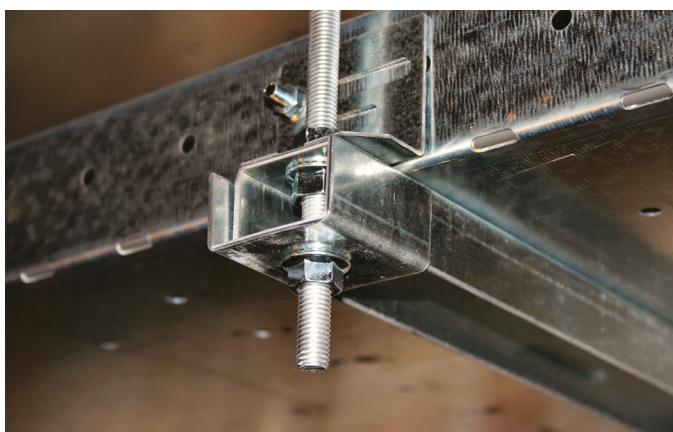
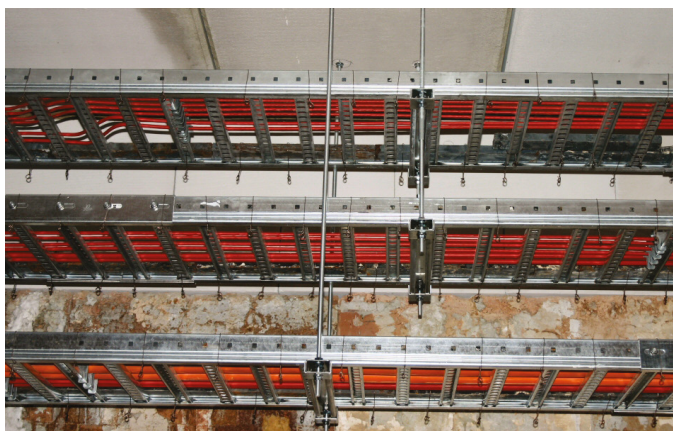


Test setup with cables in mandatory S-bend configuration



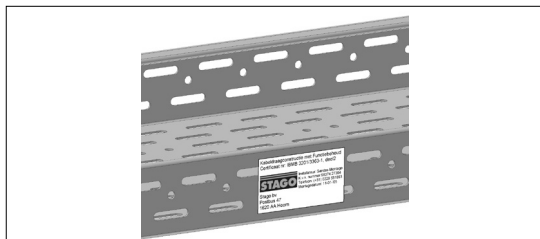
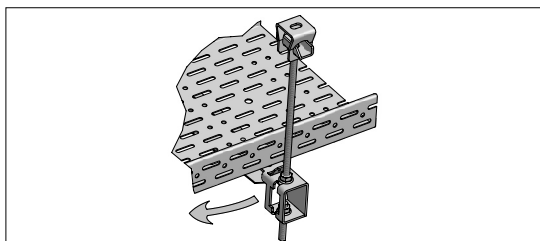
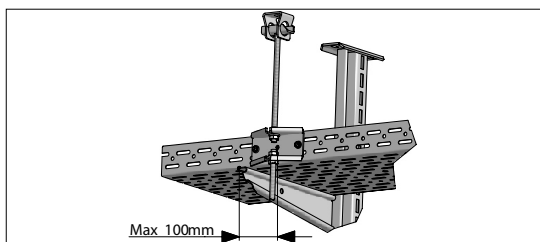
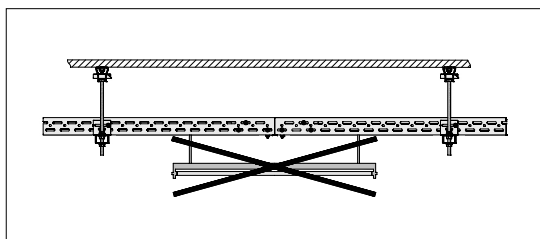
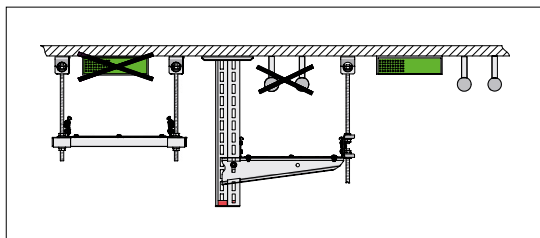
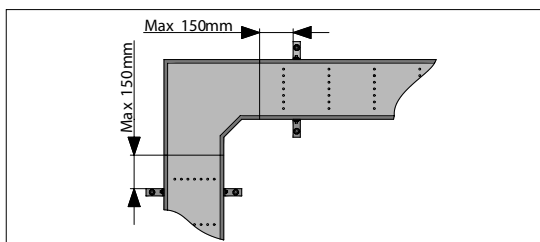
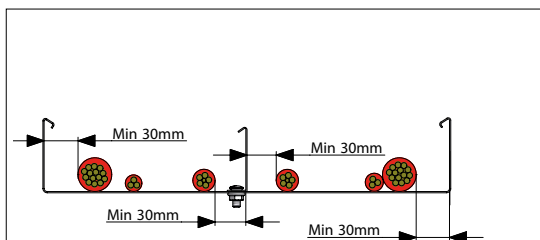
Intense heat immediately after the fire test

General



The photos above provide an impression of the fire behaviour of our cable support systems. These images were taken during various fire tests conducted at IBMB Braunschweig and TNO Delft, and show the situation before and after the test.

Mounting instructions



General Installation Instructions

Materials behave significantly differently in a fire situation compared to normal conditions. For cable support systems, steel is the primary material. The load-bearing capacity of steel decreases considerably at high temperatures, and the material begins to soften.

Installing cable support systems with integrated fire-resistant functionality therefore requires special care. This catalogue presents and describes the installation of various system variants in detail. It is important to follow the construction drawings provided in this catalogue, as only these constructions are certified. In exceptional cases, deviations from the certificate may be permitted, but approval must always be obtained from the relevant authorities (e.g. local fire brigade or building control).

Additional Installation Instructions

We also provide the following guidelines for correct and professional installation:

- Cables in cable trays and ladder systems must be installed at least 30 mm from the side wall or partition, in accordance with DIN 4102/12.
- Installing a partition wall, secured with M6x16 screws, is permitted.
- Standard accessories such as bends, offsets, and branch pieces may be used, provided an additional suspension point is installed no more than 150 mm from each end.
- In Wibe Group's standard cable support constructions with integrated fire-resistant functionality, cables from any manufacturer may be used, provided they are certified. In non-standard constructions, only the cable brands specified in the certificate may be used, in accordance with DIN 4102/12. However, for the Dutch market, any certified cable may be used in accordance with NPR 2576, Article E.2.1.
- No other types of installations or constructions may be installed above cable support systems with integrated fire-resistant functionality.
- It is not permitted to install additional systems such as lighting fixtures or air ducts.
- In principle, only cables with integrated fire-resistant functionality should be installed in fire-resistant cable support systems. However, the use of "standard" cables is allowed if they are halogen-free, the total cable load is not exceeded, and they are separated by a partition.
- The pendulum mounting plate must be installed in close proximity to the supporting bracket.
- When using the adjustable ceiling bracket, it can be positioned so that the M10 pendulum can be swivelled out of the mounting bracket for post-installation of additional cabling.
- Cable support systems with integrated fire-resistant functionality must be clearly labelled as such. NPR 2576 specifies the required label content. A template is available as a Word document via our website www.stago.nl. Labels must be placed at strategic locations.
- Painting cable support systems with integrated fire-resistant functionality is permitted with approval from advisory bodies.
- The use of covers on cable support systems with fire-resistant functionality is permitted where required by NEN 1010. The total load capacity of the system must not be exceeded.

Economical fire-resistant functionality constructions

Fire-Resistant Construction with Standard Cable Tray KG 281

Cert. No. P-3147/2424-MPA-BS

The most economical fire-resistant cable tray system in the Netherlands!
Based on standard cable tray KG 281 (thickness = 1 mm), supplemented with only a few specific fire-resistant components.

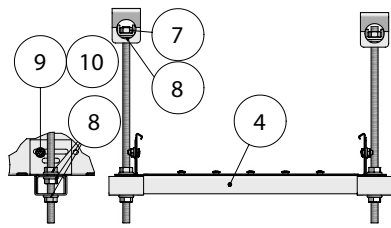
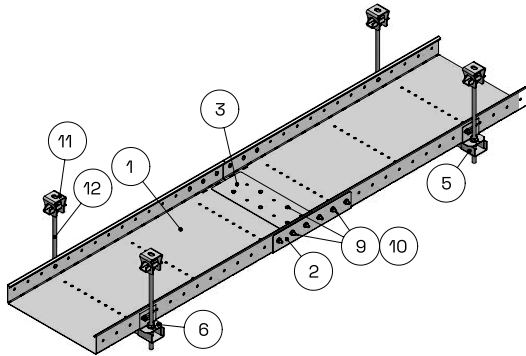
Ceiling installation with support profile / 2 x M10

Installation criteria:

- Support spacing: max. 1.2 m
- Cable weight: max. 10 kg/m per tray
- Number of layers: max. 2 layers mounted vertically
- Cable-specific support construction according to DIN 4102/12
- Class E30 and E90
- Certified for Draka, Daetwyler, and Eupen cables
- Compliant with NPR 2576 for use with any certified cable brand

Construction components:

1. Cable tray KG 281, thickness 1 mm, width 120 to 330 mm
2. U-shaped connector
3. Bottom connector
4. Support profile
5. Reinforcement bracket
6. Mounting bracket
7. M10 nut
8. M10 flange nut
9. M10x16 mounting screw
10. M6 flange nut
11. Adjustable ceiling bracket (optional)
12. M10 threaded rod



Fire-Resistant Construction with C-Profile and Cable Brackets

Cert. No. 3201/3363-3-Mu

Standard cable support construction in accordance with DIN 4102/12, vertically mounted with C-profile.

Wall installation with C-profile

Installation criteria:

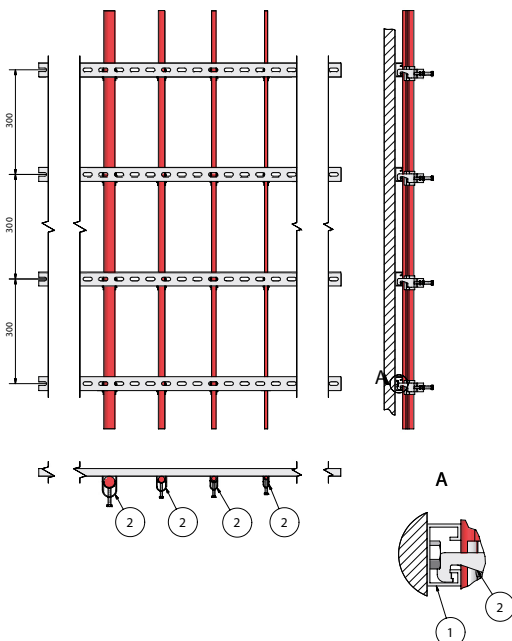
- Mounting distance: max. 0.3 m
- Standard support construction in accordance with DIN 4102/12
- Class E30 and E90
- Suitable for any certified cable brand

Construction components:

1. C-profile 24/40
2. Cable bracket A1

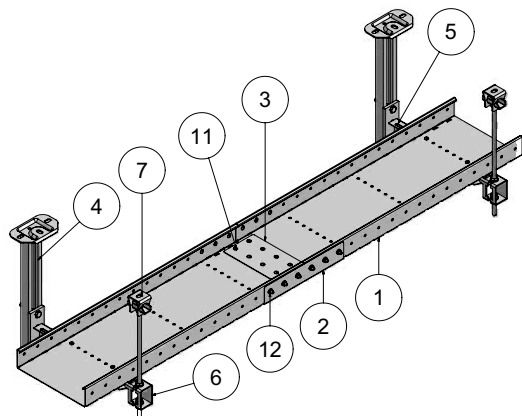
Note:

Maximum vertical height is 3.5 m, after which a horizontal offset of at least 0.3 m or a fire barrier is required.



Cable-specific fire-resistant functionality constructions

Fire-Resistant Construction with Cable Tray KG 281, Thickness 1 mm



Cert. No. P-3147/2424-MPA-BS

Cable-specific support construction in accordance with DIN 4102/12, suspended using single hanging bracket, console, and M10 threaded rod.

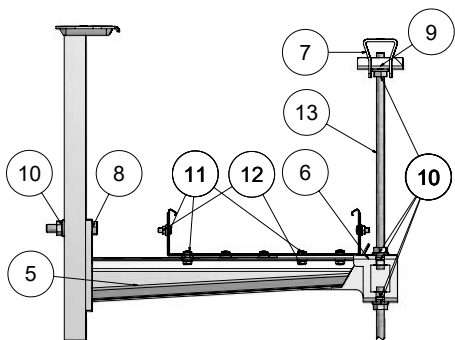
Ceiling installation with Vertical piece 2F / Cantilever arm 50 / M10 threaded rod

Installation criteria:

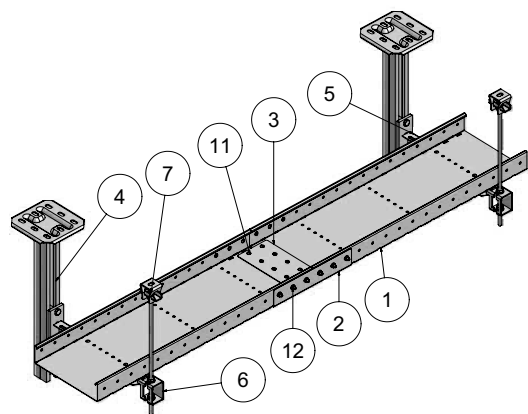
- Support spacing: max. 1.2 m
- Cable weight: max. 10 kg/m per tray
- Number of layers: max. 3 layers mounted vertically
- Cable-specific support construction in accordance with DIN 4102/12
- Class E30 and E90
- Certified for Daetwyler and Eupen cables
- Compliant with NPR 2576 for use with any certified cable brand

Construction components:

1. Cable tray KG 281, thickness 1 mm, width 120 to 330 mm
2. U-shaped connector
3. Bottom connector
4. Vertical piece 2F
5. Cantilever arm 50
6. Rod bracket 82
7. Adjustable ceiling bracket (optional)
8. M10x60 bolt
9. M10 nut
10. M10 flange nut
11. M6x16 mounting screw
12. M6 flange nut
13. M10 threaded rod



Fire-Resistant Construction with Cable Tray KG 281, Thickness 1 mm



Cert. No. 3201/3363-2-Mu / P-3147/2424-MPA-BS

Cable-specific support construction in accordance with DIN 4102/12, suspended using double hanging bracket, console, and M10 threaded rod.

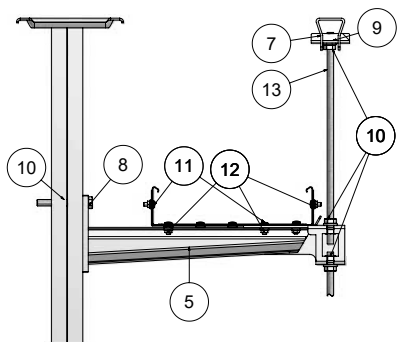
Ceiling installation with Vertical piece 20 / Cantilever arm 50 / M10 threaded rod

Installation criteria:

- Support spacing: max. 1.2 m
- Cable weight: max. 10 kg/m per tray
- Number of layers: max. 3 layers mounted vertically
- Cable-specific support construction in accordance with DIN 4102/12
- Class E30 and E90
- Certified for Daetwyler and Eupen cables
- Compliant with NPR 2576 for use with any certified cable brand

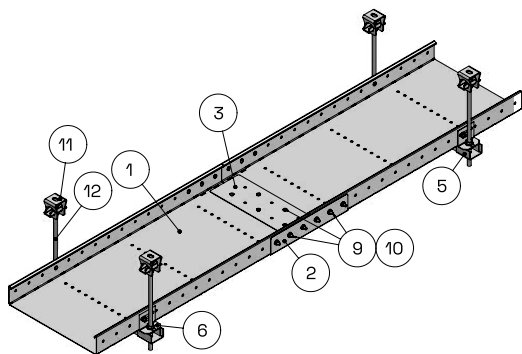
Construction components:

1. Cable tray KG 281, thickness 1 mm, width 120 to 330 mm
2. U-shaped connector
3. Bottom connector
4. Vertical piece 20
5. Cantilever arm 50
6. Rod bracket 82
7. Adjustable ceiling bracket (optional)
8. M10x80 bolt
9. M10 nut
10. M10 flange nut
11. M6x16 mounting screw
12. M6 flange nut
13. M10 threaded rod



Cable-specific fire-resistant functionality constructions

Fire-Resistant Construction with Cable Tray KG 281, Thickness 1 mm



Cert. No. P-3147/2424-MPA-BS

Cable-specific support construction in accordance with DIN 4102/12, suspended using support profile and M10 threaded rod.

Ceiling installation with support profile / 2 x M10 threaded rods

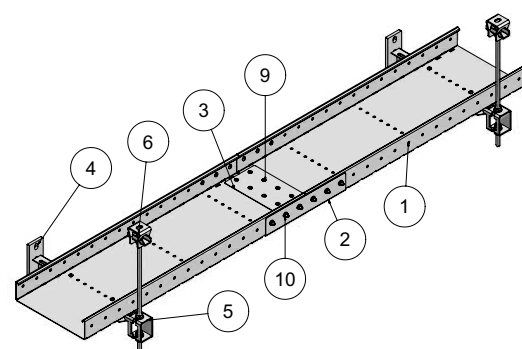
Installation criteria:

- Support spacing: max. 1.2 m
- Cable weight: max. 10 kg/m per tray
- Number of layers: max. 2 layers mounted vertically
- Cable-specific support construction in accordance with DIN 4102/12
- Class E30 and E90
- Certified for Draka, Daetwyler, and Eupen cables
- Compliant with NPR 2576 for use with any certified cable brand

Construction components:

1. Cable tray KG 281, thickness 1 mm, width 120 to 330 mm
2. U-shaped connector
3. Bottom connector
4. Support profile
5. Reinforcement bracket
6. Mounting bracket
7. M10 nut
8. M10 flange nut
9. M6x16 mounting screw
10. M6 flange nut
11. Adjustable ceiling bracket (optional)
12. M10 threaded rod

Fire-Resistant Construction with Cable Tray KG 281, Thickness 1 mm



Cert. No. 3201/3363-2-Mu / P-3147/2424-MPA-BS

Cable-specific support construction in accordance with DIN 4102/12, wall-mounted using wall bracket and M10 threaded rod.

Wall installation with Cantilever arm 50 and M10 threaded rod

Installation criteria:

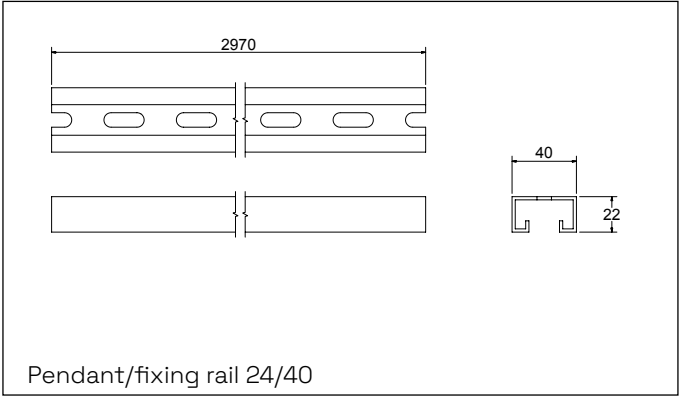
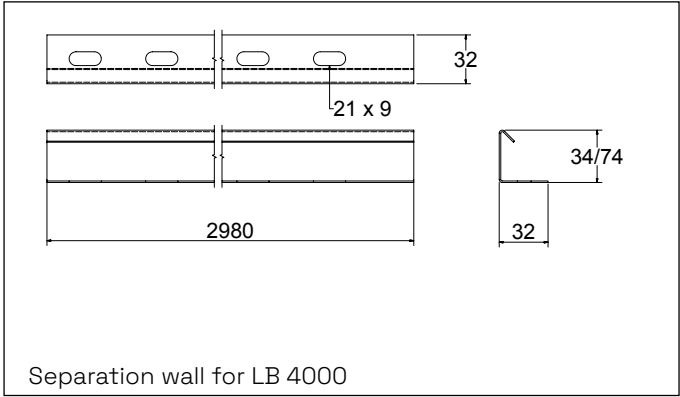
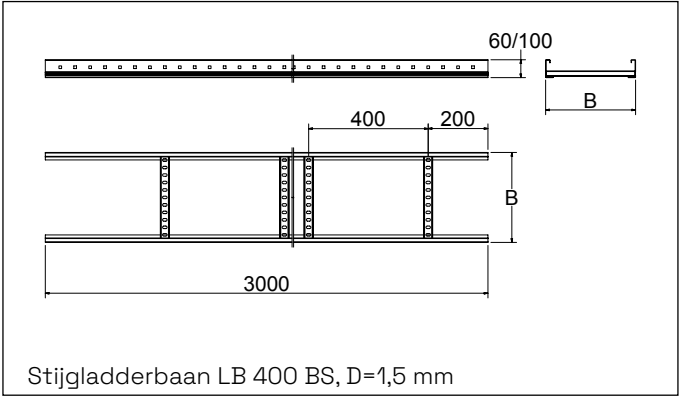
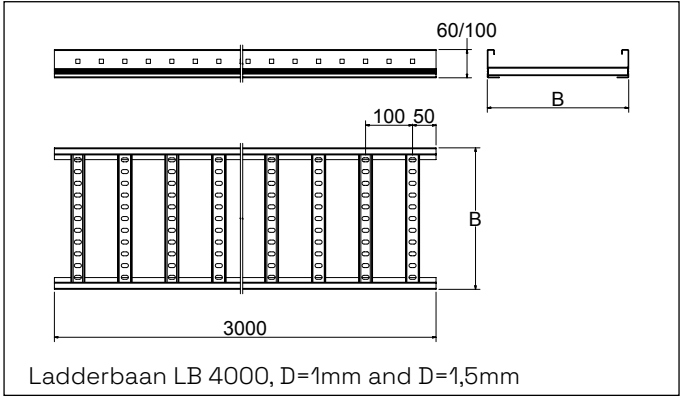
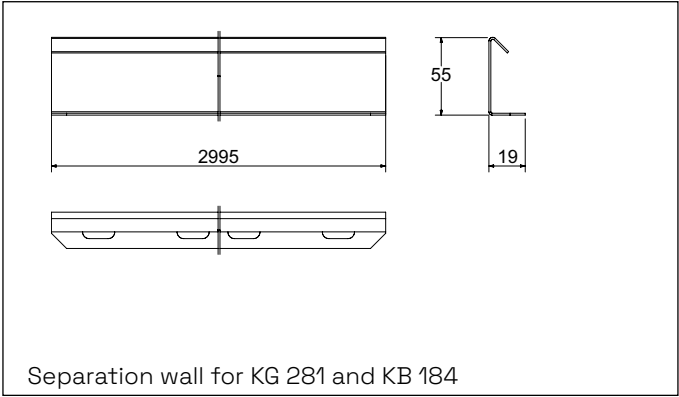
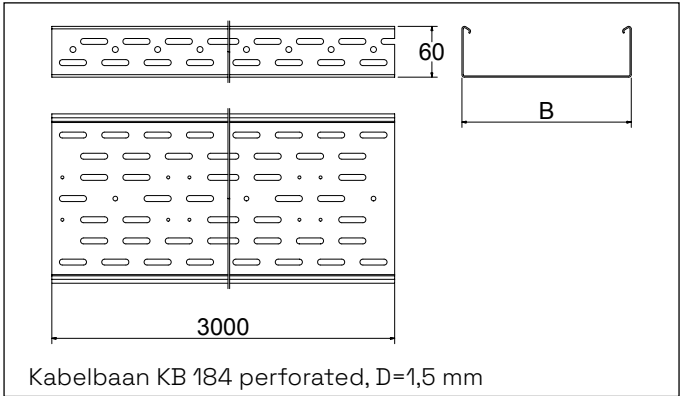
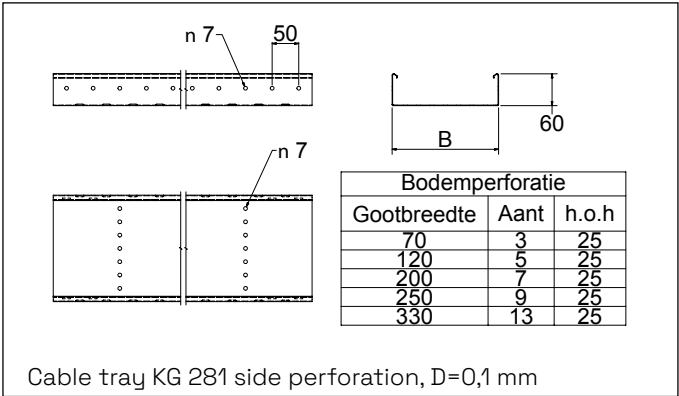
- Support spacing: max. 1.2 m
- Cable weight: max. 10 kg/m per tray
- Number of layers: max. 3 layers mounted vertically
- Cable-specific support construction in accordance with DIN 4102/12
- Class E30 and E90
- Certified for Daetwyler and Eupen cables
- Compliant with NPR 2576 for use with any certified cable brand

Construction components:

1. Cable tray KG 281, thickness 1 mm, width 120 to 330 mm
2. U-shaped connector
3. Bottom connector
4. Cantilever arm 50
5. Rod bracket 82
6. Adjustable ceiling bracket (optional)
7. M10 nut
8. M10 flange nut
9. M6x16 mounting screw
10. M6 flange nut
11. M10 threaded rod

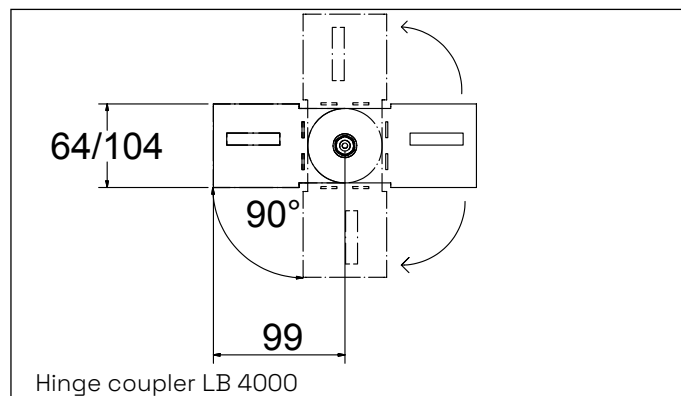
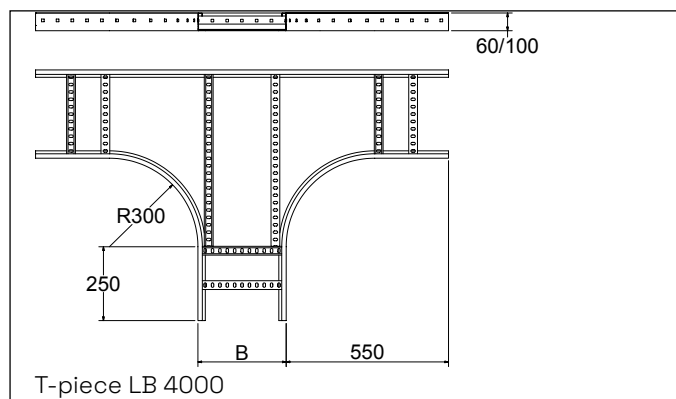
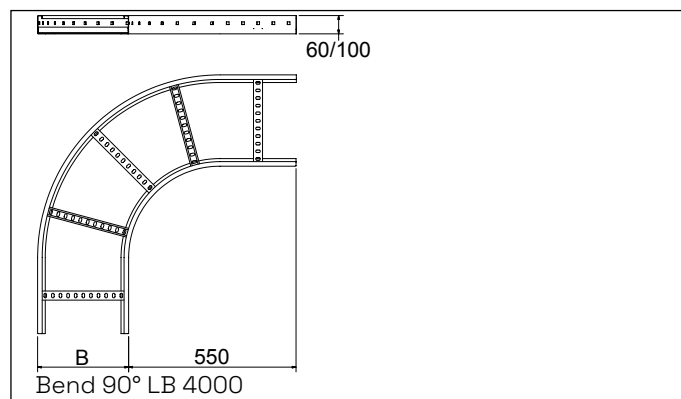
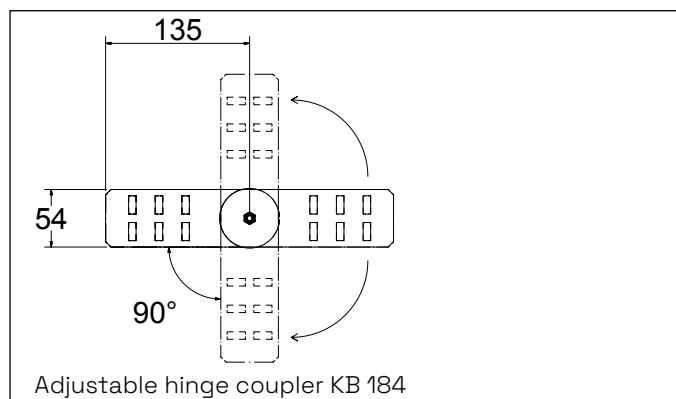
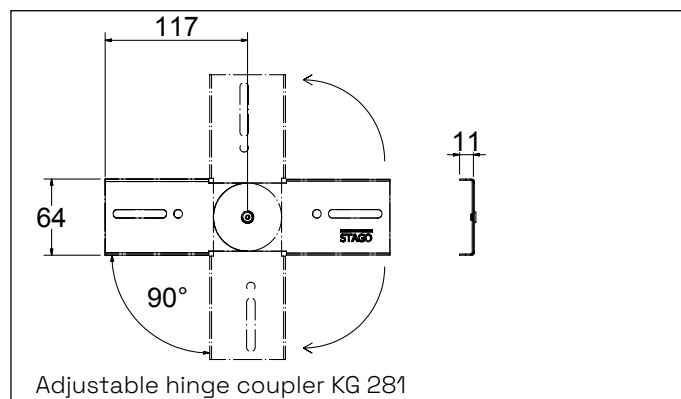
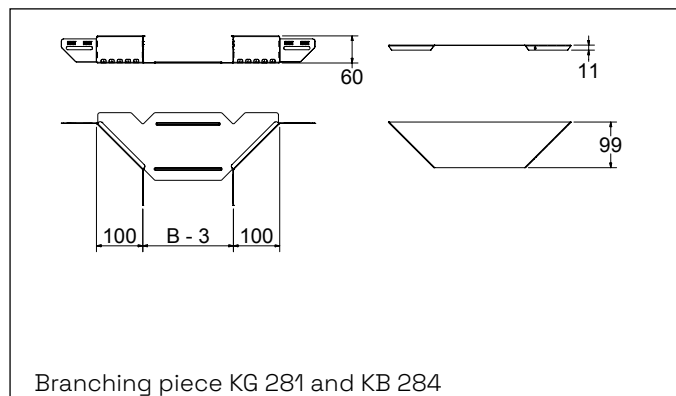
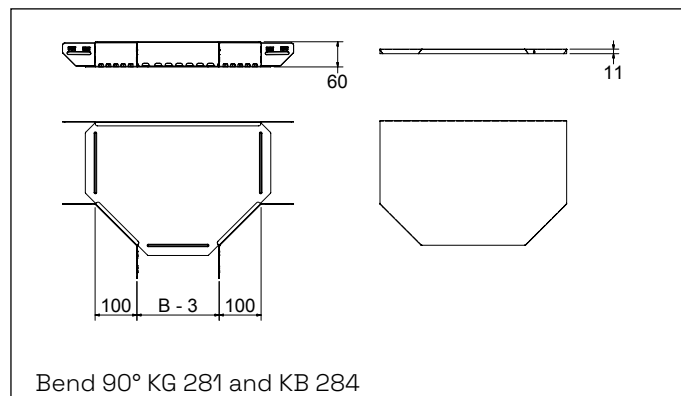
Measurements

Lengthmateriala



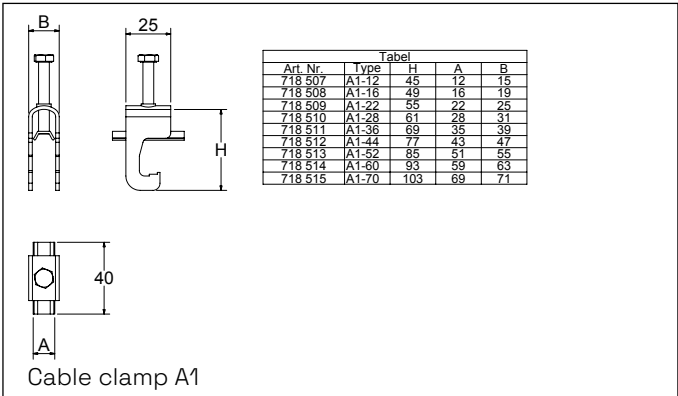
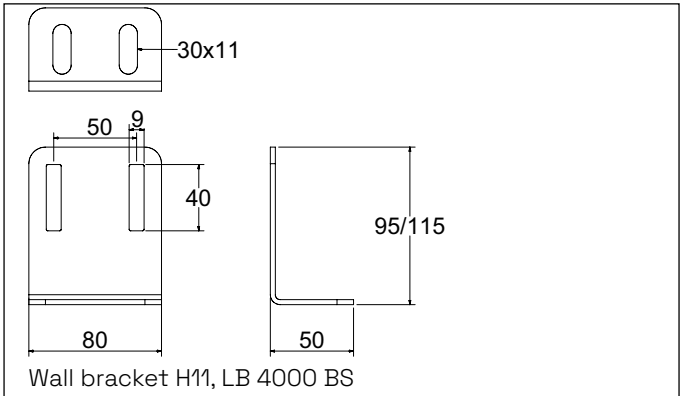
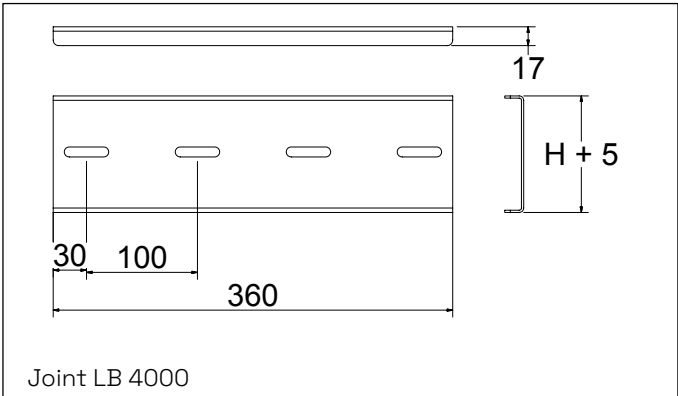
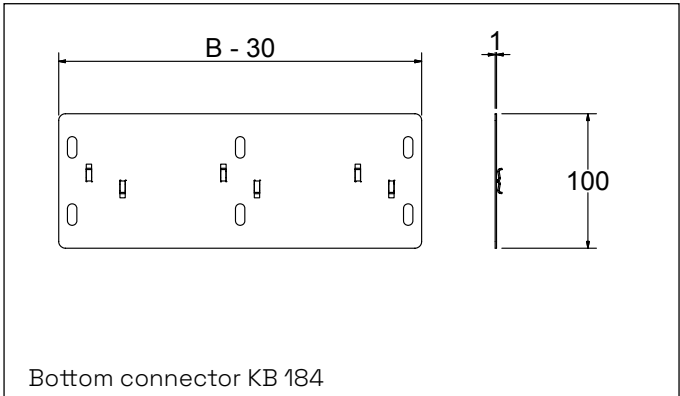
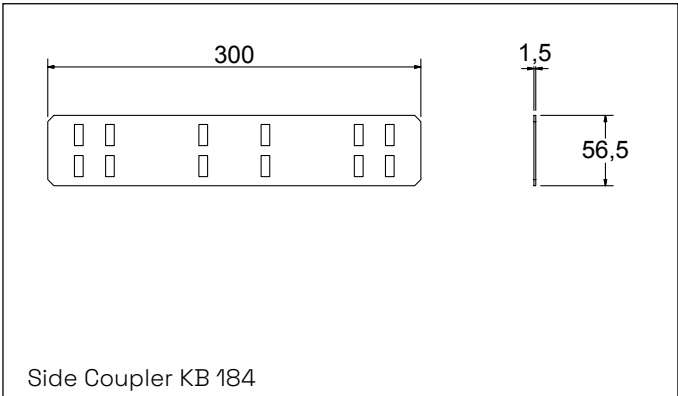
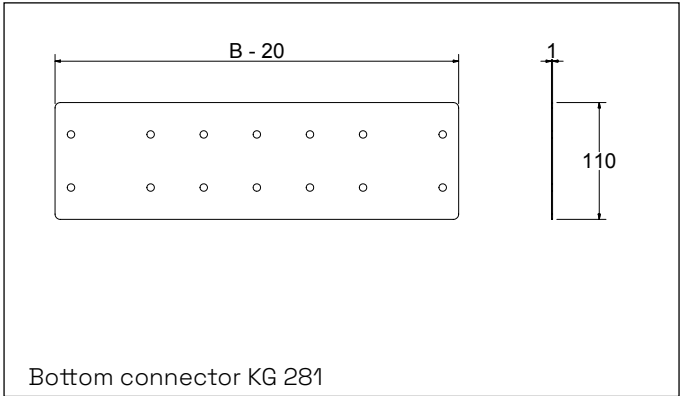
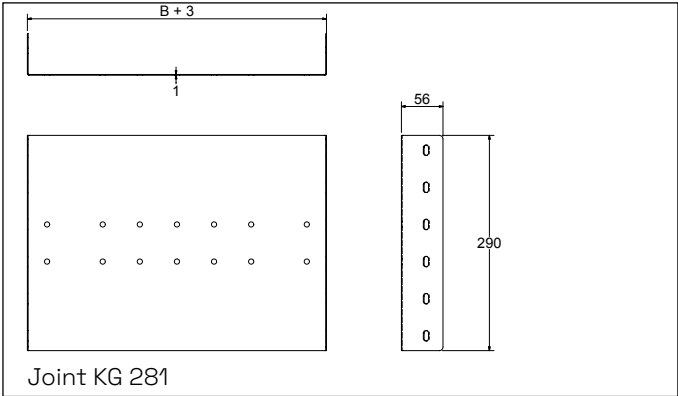
Measurements

Accessories



Measurements

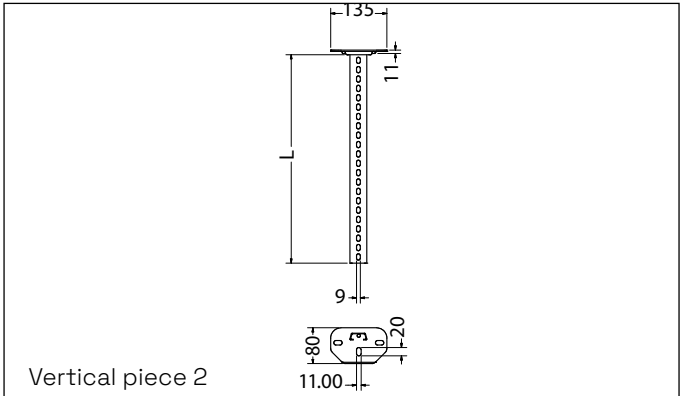
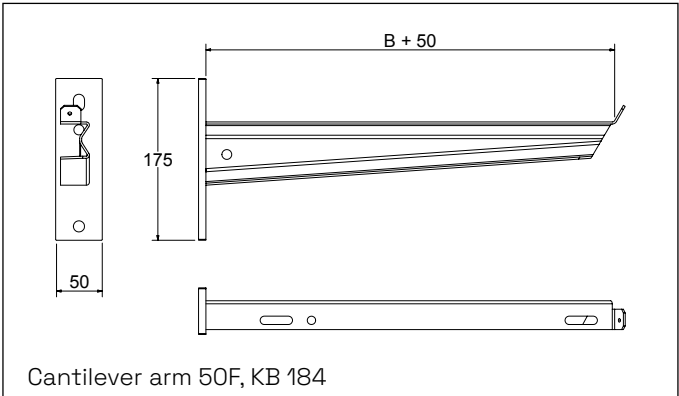
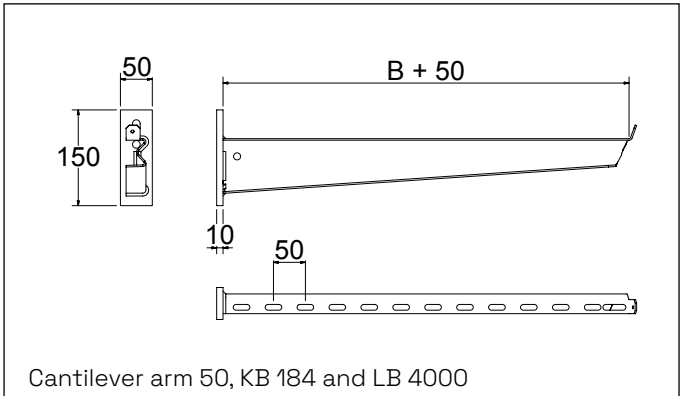
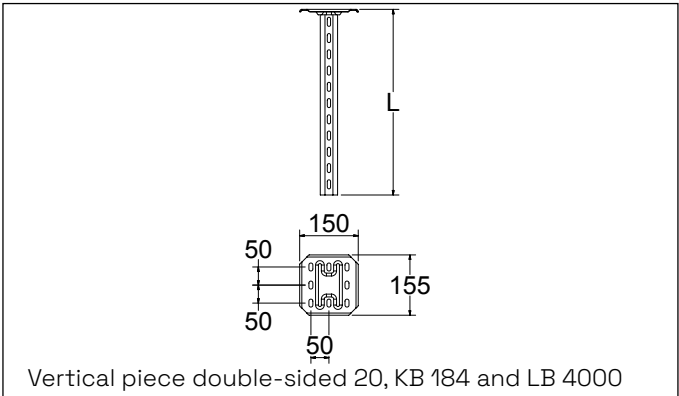
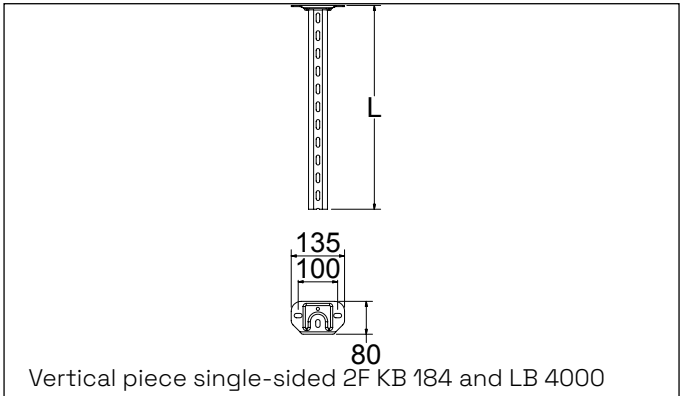
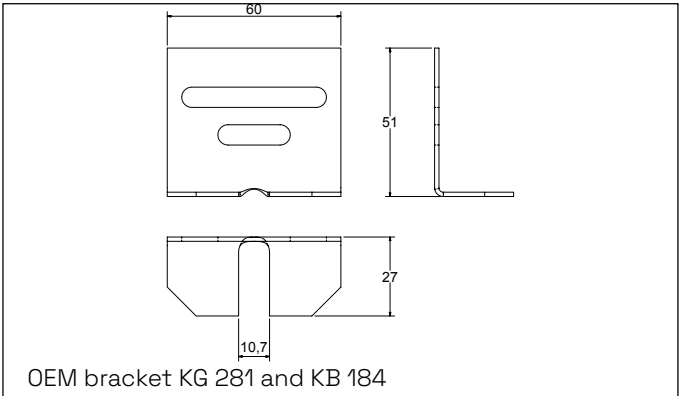
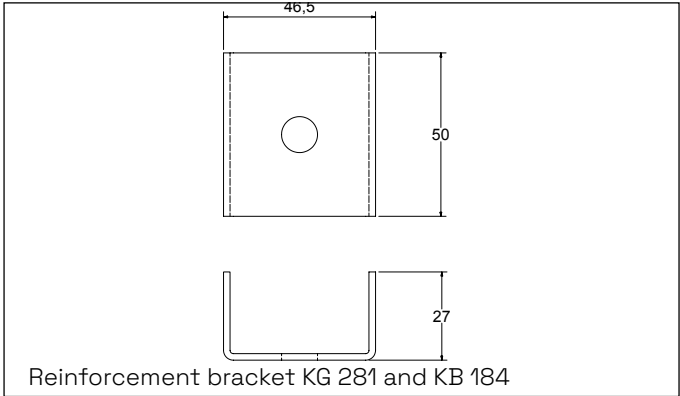
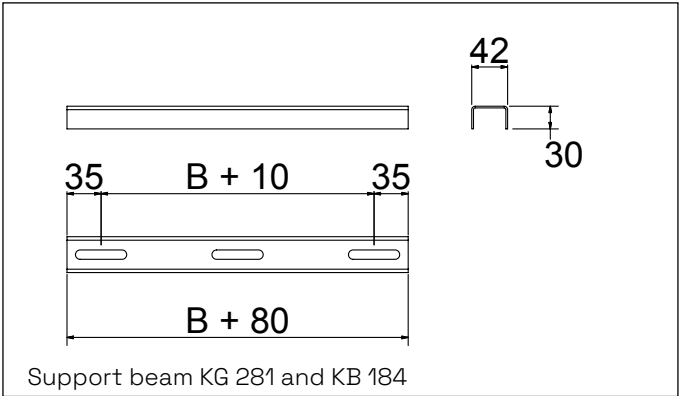
Universal accessories / mounting material



Tabel				
Art. Nr.	Type	H	A	B
718 507	A1-12	45	12	15
718 508	A1-16	49	16	19
718 509	A1-22	55	22	25
718 510	A1-28	61	28	31
718 511	A1-36	69	35	39
718 512	A1-44	77	43	47
718 513	A1-52	85	51	55
718 514	A1-60	93	59	63
718 515	A1-70	103	69	71

Measurements

Suspension



Measurements

Suspension

