



Mesh cable tray systems

Quick, safe and economical cable routing in professional electrical installations.



Quick. Screwless. Safe. Stable.

OBO Bettermann's mesh cable tray systems are the ideal basis for quick, safe and economical cable routing in all areas of professional electrical installations. The GR-Magic®, the Magic® G mesh cable tray, and the heavy-duty SGR mesh cable tray with their various shapes, side heights, surfaces and range of accessories are ideal for satisfying the most varied cable routing requirements. The systems are well thought through and extremely efficient when in daily use.

Installation time is an important factor when it comes to choosing whether to buy a product or not. With the GR-Magic® mesh cable tray in both the standard design or as a G mesh cable tray, OBO Bettermann can offer a true system innovation. Thanks to the connection system developed by OBO, the mesh cable tray can be mounted in a matter of seconds – without any connectors or tools. Just connect the two parts and you're done. The system has therefore redefined the concepts of rapid mounting and flexibility.

Logical

The OBO mesh cable tray system

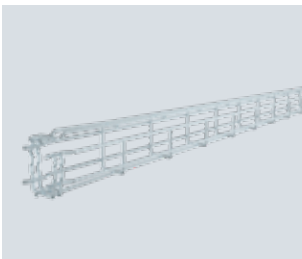
GR-Magic® mesh cable tray



Side height mm	G	FT	A2	A4
	Electrogalvanised	Hot-dip galvanised	Stainless steel	Stainless steel
55	✓	✓	✓	✓
105	✓	✓	✓	✓

For fixing on brackets, suspension fittings and spacer clamps

G mesh cable tray Magic®



Side height mm	G	FT	A2	A4
	Electrogalvanised	Hot-dip galvanised	Stainless steel	Stainless steel
50	✓	✓	✓	✓
75	✓	✓	✓	✓
125	✓	✓	✓	✓
150	✓	✓	✓	✓

For direct wall and ceiling mounting.

C mesh cable tray



Side height mm	FT	A2
	Hot-dip galvanised	Stainless steel
55	✓	✓

For fixing on brackets, suspension fittings and spacer clamps

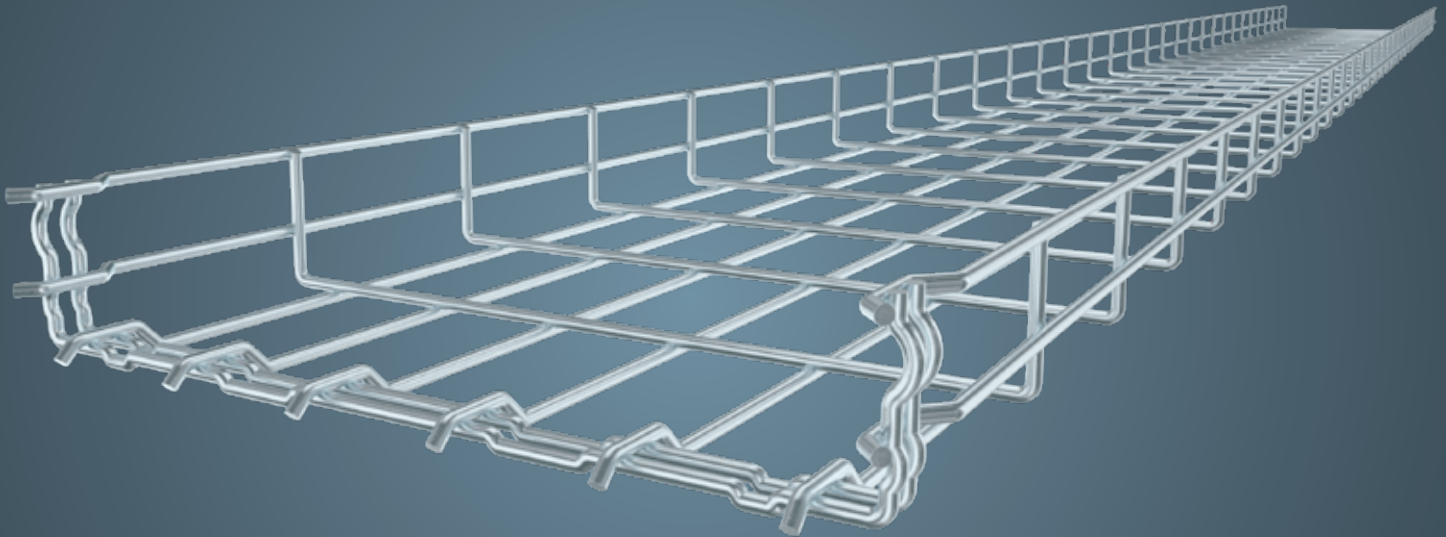
Heavy-duty mesh cable tray



Side height mm	G	FT	A2
	Electrogalvanised	Hot-dip galvanised	Stainless steel
55	✓	✓	✓
105		✓	✓
155	✓	✓	

For fastening on brackets and suspensions

GR-Magic® mesh cable tray



G

FT

A2

A4

The GR-Magic® mesh cable tray really speeds up installation and manages this with no loss of stability and load-bearing capacity. The moulded connectors for screwless quick mounting ensure extremely quick installation times, even for complex mounting operations. Load tests show that GR-Magic® systems can fully match up to traditional screw connections.

The mesh cable trays are available with side heights of 35, 55 and 105 mm in the electro-galvanised "Titan look" version, hot-dip galvanised version and in stainless steel. The comprehensive range of practical accessories, such as mesh cable tray bends, hold-down clamps, quick connectors, barrier strips, suspension profiles, brackets, etc., ensures that the product range is complete down to the smallest detail.



Compliant with standards

The electrical properties are also first class: the values required by the VDE guidelines 0639 and in the new IEC/EN 61537 "Cable management. Cable tray systems and cable ladder systems" are achieved easily.

In addition, the system satisfies the stringent NEMA requirements for the American market.

Function maintenance with GR-Magic®



Besides rapid mounting and the wide range of applications, the GR-Magic® offers another key benefit: it can be used to maintain the electrical function for fire safety purposes in order to ensure the supply to safety-related systems for a certain period of time in the event of a fire. The GR-Magic®

has proven its stability in an impressive manner in fire testing according to DIN 4102 Part 12.

Function maintenance

1



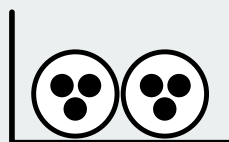
Laying system/support system:
GRM screwless straight connection, fire-tested

2



Safety cables:
E30-E90

3



Tested and approved cable system with the maintenance of electrical supply according to DIN 4102 Part 12



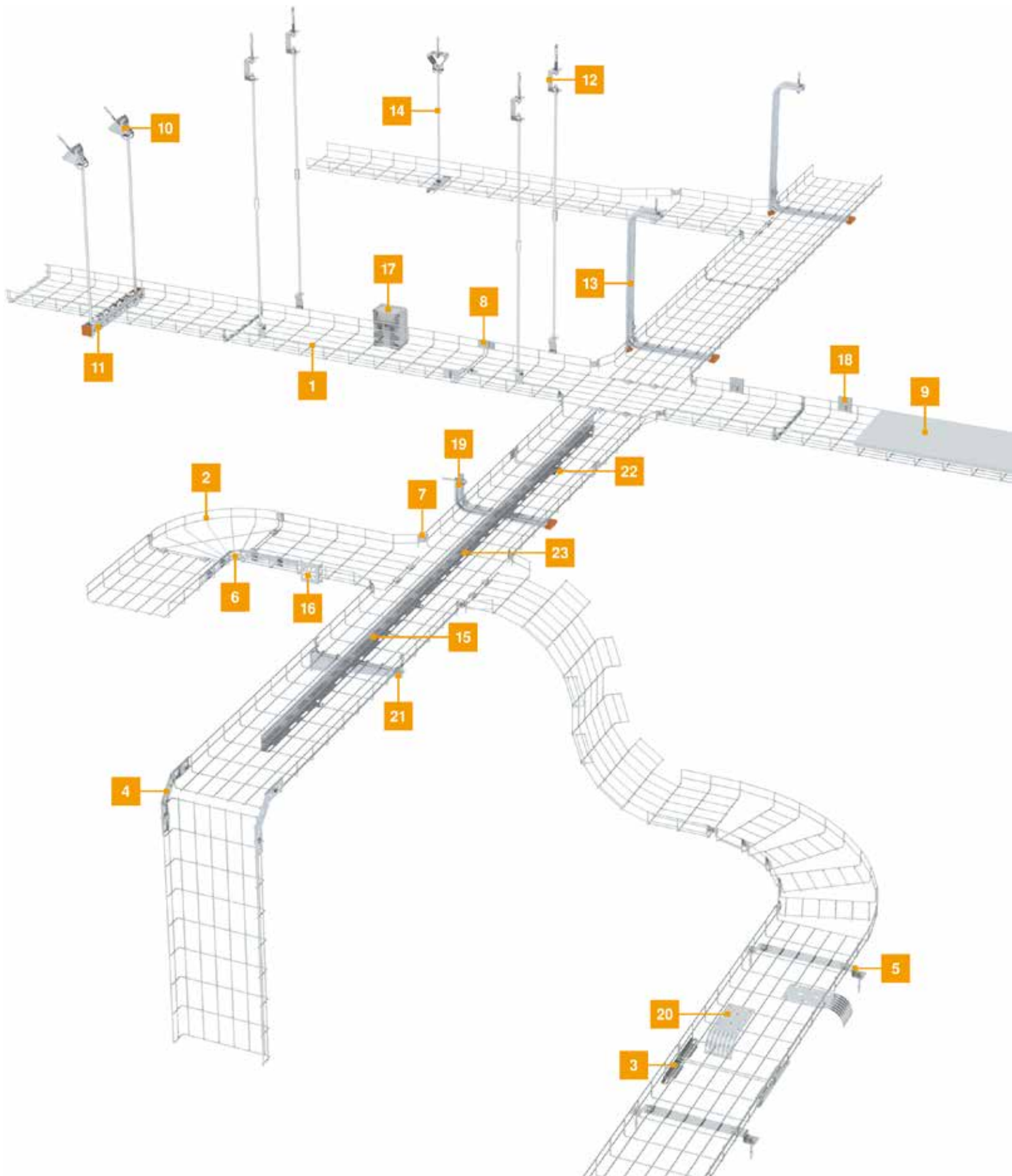
Function maintenance with GR-Magic®



Impressive range of accessories

In addition to providing quick straight connections, the innovative GR-Magic® range of accessories is also easy to handle and use thanks to its screwless connections. For example, the mesh cable trays can be flexibly installed on mounting rails using fastening clips or on wall and support brackets using clamping lugs. Cut mesh cable trays without moulded connectors are easy to join together with a quick connector, while barrier strips are fastened with a hold-down clamp and cable exit plates with clamping lugs.

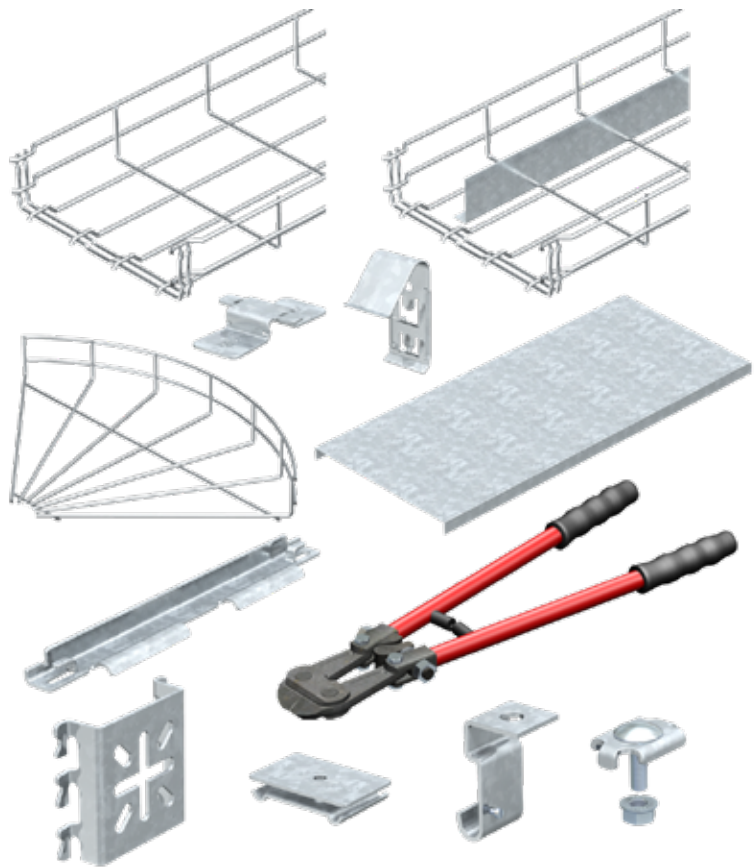
Installation principle



- 1 GR-Magic® mesh cable tray
- 2 90° mesh cable tray bend
- 3 Mesh cable tray connector, long
- 4 90° mounting bracket
- 5 Stand-off bracket
- 6 Slotted steel strap, bent
- 7 Corner connector
- 8 Joint connector
- 9 Cover, unperforated
- 10 Ceiling clamp, variable
- 11 MS4121 mounting rail
- 12 Ceiling bracket
- 13 TP suspended support
- 14 Central suspension, GMS
- 15 Barrier strip
- 16 Mounting plate
- 17 Fastening element for junction box
- 18 Wall and ceiling bracket
- 19 Wall and support bracket, TPSAG
- 20 Drop-out plate
- 21 Wall and support bracket, AWG 15
- 22 Clamping piece for separating retainer fastening
- 23 Welded cable ladder systems

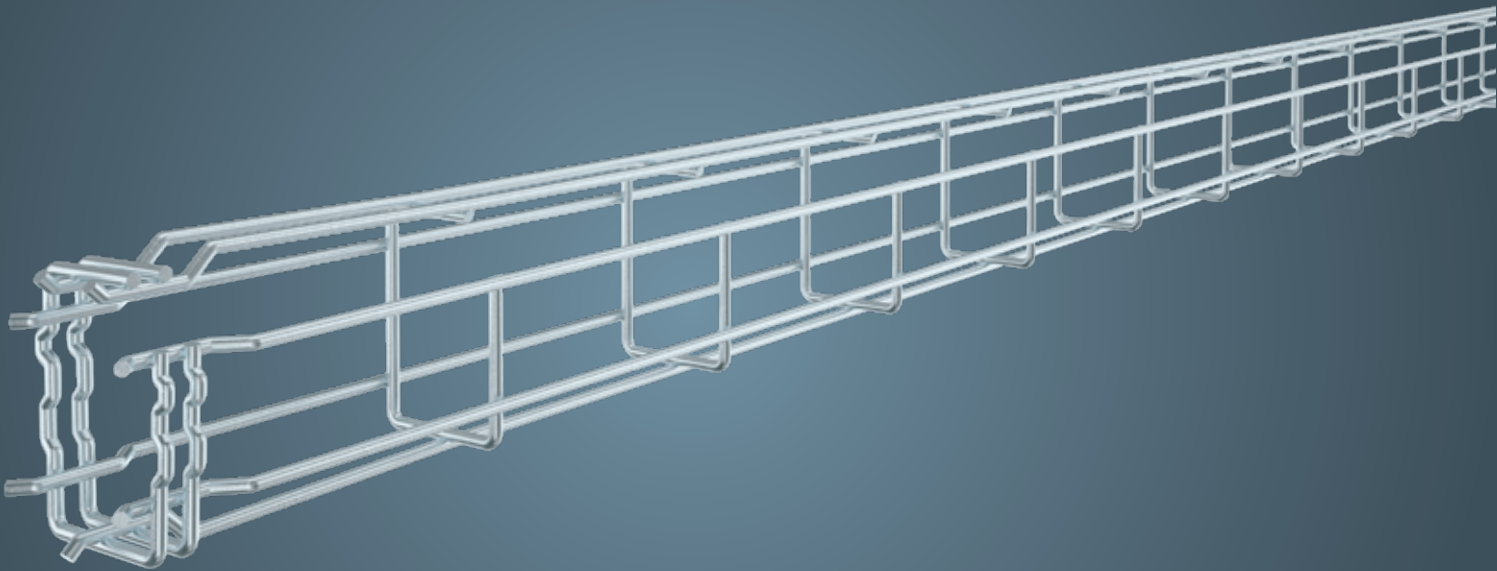
Magic down to the last detail

The system's effectiveness is provided by the perfectly formed mesh cable tray for screwless straight connection, complemented by the wide range of well-thought-out system components. The many lockable and clamp-on elements continue the basic principle of the Magic system down to the last detail. Exceptional ease of use is also a priority for all additional fastening and system components, for example when creating bends of different radii with special corner connectors.



GR-Magic® G mesh cable tray

The system for the direct wall and ceiling mounting



Optimum room usage

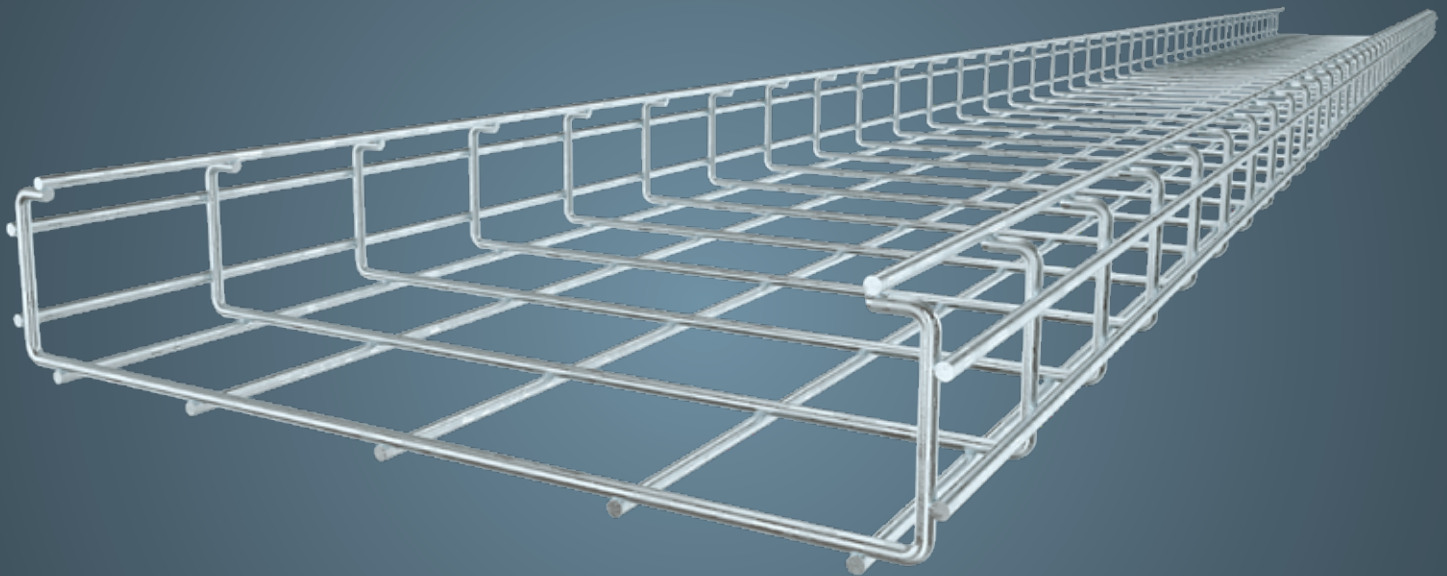
Even if space is tight, the Magic® G mesh cable tray can be mounted almost anywhere. It can be attached directly to walls and ceilings in almost any position. The mesh cable tray can thus offer optimum cable routing in false ceilings, server rooms and office buildings. This system also scores highly thanks to its screwless design.

Wide range of materials

In dry rooms, wet rooms, outdoor areas, the food industry or tunnel construction – the GR-Magic® has the right surface for any area. The product range runs from electrogalvanised and hot-dip galvanised right through to stainless steel variants.

SGR heavy-duty mesh cable tray

A tough cookie made from 6 mm wire



FT A2

110% more load capacity

The heavy-duty mesh cable tray of type SGR, made of 6 mm-thick wire in a U profile, unifies multiple benefits simultaneously. The strong wire design means that the SGR, with its low intrinsic weight, can withstand load capacities of up to 110% more than the comparable mesh cable trays of competitors and can thus also be used for larger support spacings of up to 4.0 m.

The mesh cable tray is available in three different surface versions. It is hot-dip galvanised and can be used in the industrial sector and in machine and system construction.

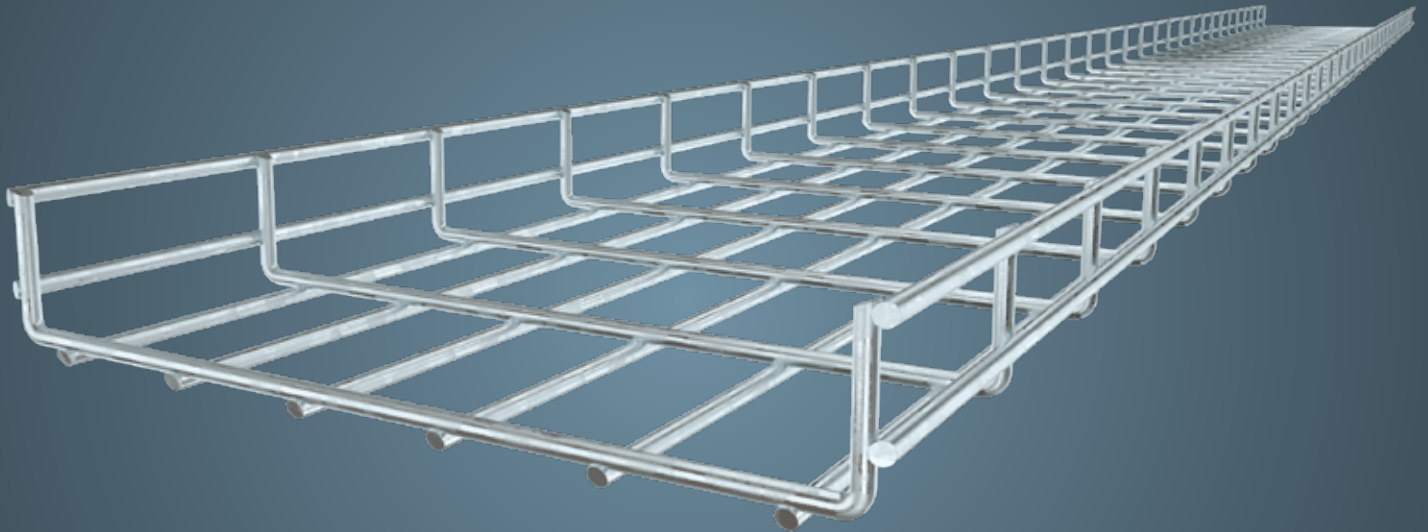
With three different side heights, it is possible to react very flexibly to different necessary cable volumes. The large grids mean that cables can be inserted and run out at any point.



In addition, the open structure prevents heat build-up and also the collection of dirt and dust is prevented to a great extent. The U connector GUV 6 in the surfaces FT, G and A2 is available for the heavy-duty mesh cable tray. This new heavy-duty mesh cable tray offers an all-round complete package for the sophisticated laying of cables in all different application areas.

C mesh cable tray

Maximum load capacity and versatility



G

FT

A2

The C mesh cable tray system from OBO Bettermann can fulfil the highest requirements for load capacities and versatility. The C shape allows support widths of up to three metres. With a side height of 50 mm and optimised accessories such as hold-down clamps, barrier strips or installation profiles, the system is the perfect complement to OBO's complete mesh cable tray portfolio. It is used both in industry and in all other areas of professional electrical installations.



Surface variety of the mesh cable tray

The mesh cable trays are available in a wide variety of surface designs that enable them to be used both indoors and outdoors. For indoors, OBO has developed the electrogalvanised surface further and made it even more visually appealing. The result is the new OBO “Titan look”. This provides the mesh cable trays with an unmistakable, high-quality optical appearance, which closely resembles stainless steel – making it ideal for use in false ceilings and where in view.

The system's effectiveness is provided by the perfectly formed mesh cable tray for screwless straight connection, complemented by the wide range of well-thought-out system components. The many lockable and clamp-on elements continue the basic principle of the Magic system down to the last detail. Exceptional ease of use is also a priority for all additional fastening and system components, for example when creating bends of different radii with special corner connectors.



Surface	Electrogalvanisation
Coating thickness	Average value approx. 2.5–10 µm
Standards	Electrolytic galvanisation in accordance with DIN EN 12329
Location of use	Indoor areas



Surface	Hot-dip galvanisation
Coating thickness	Average value approx. 40–60 µm
Standards	Hot galvanisation using the dipping method according to DIN EN ISO 1461
Location of use	Outdoors



Material	Stainless steel A2
Designations	European material designation: 1.4301 American material designation: AISI 304
Special features	Welded components are also passivated; unwelded components are rinsed and degreased
Location of use	Industrial areas with high levels of humidity and aggressive atmosphere, food industry, chemical and pharmaceuticals industry



Material	Stainless steel A4
Designations	European material designation: 1.4401/1.4404/1.4571 American material designation: AISI 316/316L/316Ti
Special features	Welded components are also passivated; unwelded components are rinsed and degreased
Location of use	Buildings or areas with almost constant condensation and high levels of impurities, coastal or offshore areas with high levels of salt

Tested quality



The in-house BET Test Centre continually monitors and tests the quality of OBO products. Here, OBO simulates the loads that the mesh cable tray systems have to withstand on a constant basis. We determine the maximum load capacity and carrying capacity of the system, as well as its resistance to corrosion. We are able to prove standardised testing of EMC properties using test reports. In other words, OBO places paramount importance on safety.

The KTS testing system was specially constructed for the testing of OBO Bettermann cable support systems. Thanks to its continuous further development and adaptation to the latest requirements, it can offer comprehensive testing options. For example, the tests required by DIN EN 61537 can be carried out. These prove the safe working load (SWL) and therefore the reliable load-bearing capacity of the systems. Tested quality without compromise – made by OBO.

As flexible as your work

Mesh cable trays cannot always be routed lengthways. Depending on the application, it is necessary to overcome structural obstacles or to make unusual changes of direction. Horizontal and vertical As the OBO mesh cable trays can be cut to size as required and the system has an extensive range of accessories, it can be adapted to any structural conditions.

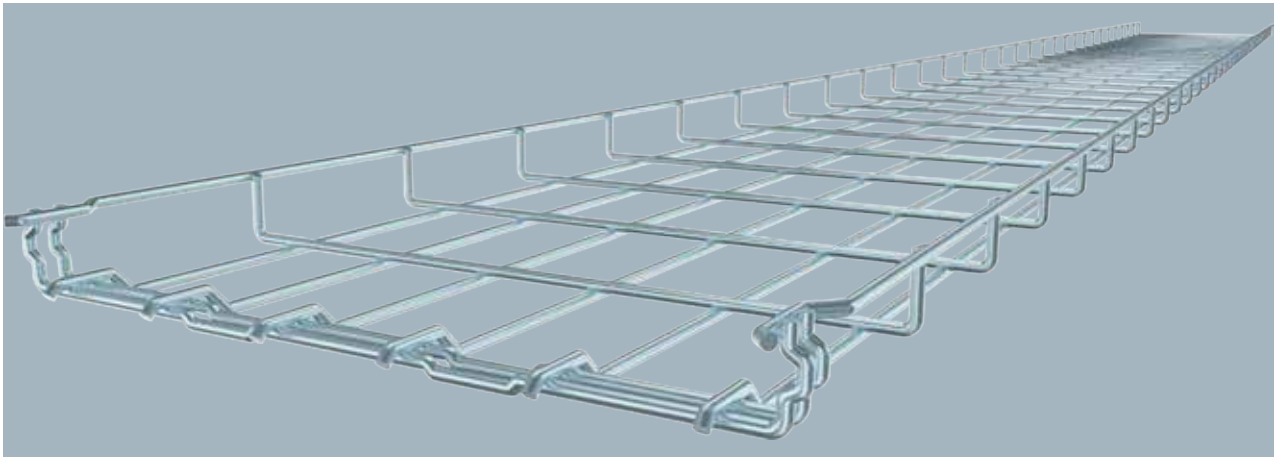
Reference

Lieken Brot- und Backwaren GmbH

- Product: Mesh cable tray in various widths and side heights
- Units: 2.5 km
- Location of use: Industrial and administrative areas



Mesh cable tray GR-Magic® 35

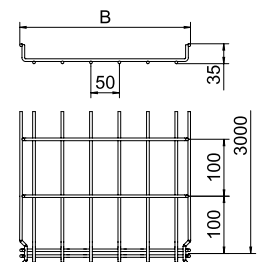


Type	Wire		Pack m	Item no.
	Width mm	Ø mm		
GRM 35 50 G	50	3.9	3	6000060
GRM 35 100 G	100	3.9	3	6000062
GRM 35 150 G	150	3.9	3	6000063
GRM 35 200 G	200	3.9	3	6000064
GRM 35 300 G	300	4.8	3	6000066
GRM 35 50 FT	50	3.9	3	6000069
GRM 35 100 FT	100	3.9	3	6000071
GRM 35 150 FT	150	3.9	3	6000072
GRM 35 200 FT	200	3.9	3	6000073
GRM 35 300 FT	300	4.8	3	6000075

Mesh cable tray with shaped connector of side height 35 mm.

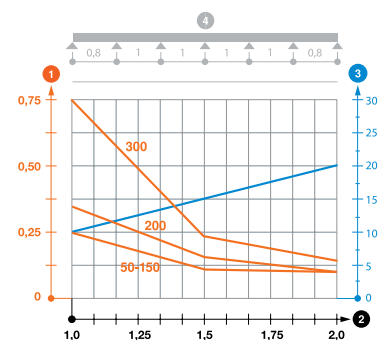
Type	Length mm	Dim. B mm	Usable cross- section cm ²
GRM 35 50 G	3000	52	17.5
GRM 35 100 G	3000	100	35
GRM 35 150 G	3000	150	52.5
GRM 35 200 G	3000	200	70
GRM 35 300 G	3000	300	105

Dimensions



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

Load



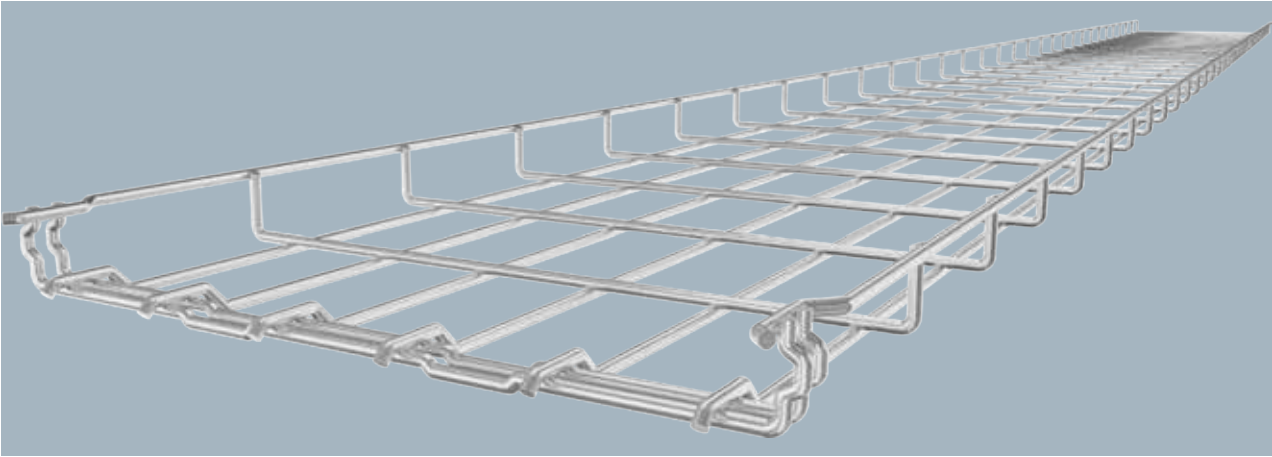
Load diagram, GR-Magic mesh cable tray, type GRM 35

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

A2 VA 2B



Mesh cable tray GR-Magic®



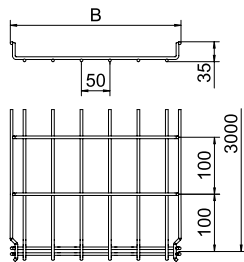
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 35/50 = 20 x 100 mm).

Mesh cable tray with shaped connector of side height 35 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

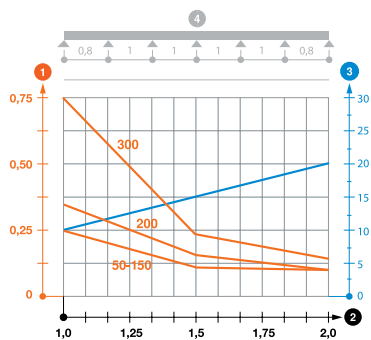
Type	Wire		Pack m	Item no.
	Width mm	Ø mm		
GRM 35 50 A2	50	3.9	3	6000054
GRM 35 100 A2	100	3.9	3	6000055
GRM 35 150 A2	150	3.9	3	6000056
GRM 35 200 A2	200	3.9	3	6000057
GRM 35 300 A2	300	4.8	3	6000059
GRM 35 50 A4	50	3.9	3	6000086
GRM 35 100 A4	100	3.9	3	6000087
GRM 35 150 A4	150	3.9	3	6000089
GRM 35 200 A4	200	3.9	3	6000090
GRM 35 300 A4	300	4.8	3	6000091

Dimensions



Type	Length mm	Dim. B mm	Usable
			cross-section cm ²
GRM 35 50 A2	3000	52	17,5
GRM 35 100 A2	3000	100	35
GRM 35 150 A2	3000	150	52,5
GRM 35 200 A2	3000	200	70
GRM 35 300 A2	3000	300	105

Load

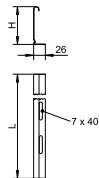


Type	1.0 m	1.5 m	2.0 m
	kN/m	kN/m	kN/m
GRM 35 50 A2	0.25	0.11	0.1
GRM 35 100 A2	0.25	0.11	0.1
GRM 35 150 A2	0.25	0.11	0.1
GRM 35 200 A2	0.3	0.14	0.1
GRM 35 300 A2	0.75	0.22	0.15

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

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

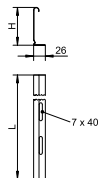
Separating retainer 30



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

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

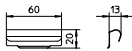
Barrier strip 30



Type	Metal			Pack m	Item no.
	Dim. H mm	thick- ness mm	Dim. L mm		
TSG 30 A2	30	0.75	3000	3	6062052

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

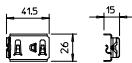
Separating retainer connector



Type	Pack Piece	Item no.
TSGV A2	10	6067970

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

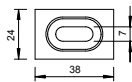
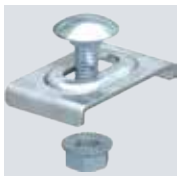
Clamping piece for separating retainer fastening in GRM



Type	Pack Piece	Item no.
KS GR A2	30	6062282

Clamping piece for fastening separating retainer in mesh cable trays.

GKT 38 hold-down clamp



Type	Pack Piece	Item no.
GKT 38 G	20	6017037

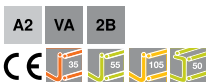
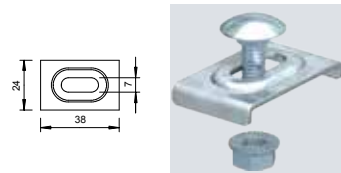
Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



GKT 38 hold-down clamp

Type	Pack Piece	Item no.
GKT 38 FT	20	6017061

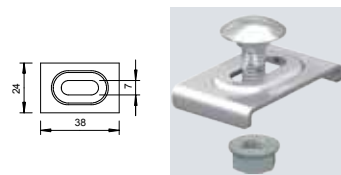
Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



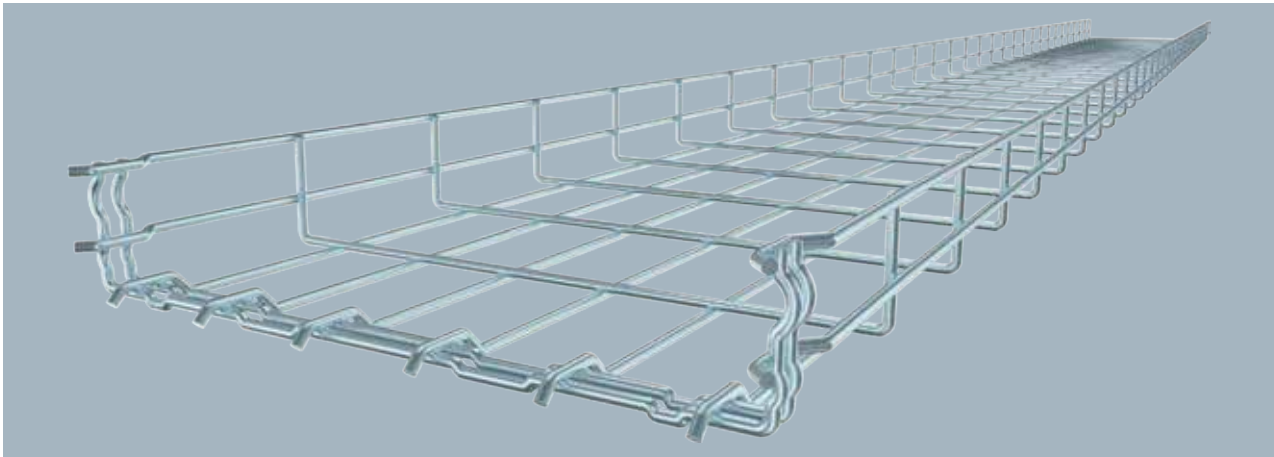
Clamping piece GKT 38

Type	Pack Piece	Item no.
GKT 38 A2	20	6017045
GKT 38 A4	10	6017092

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening separating retainer in mesh cable trays.



GR-Magic® 55 mesh cable tray



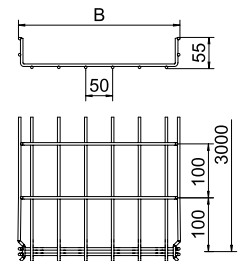
Type	Wire			Pack m	Item no.
	Width mm	Ø mm	BS		
GRM 55 50 G	50	3.9		3	6001441
GRM 55 100 G	100	3.9	🔥	3	6001442
GRM 55 150 G	150	3.9		3	6001444
GRM 55 200 G	200	3.9	🔥	3	6001446
GRM 55 200 4.8 G	200	4.8	🔥	3	6001447
GRM 55 300 G	300	4.8	🔥	3	6001448
GRM 55 400 G	400	4.8	🔥	3	6001450
GRM 55 450 G	450	4.8		3	6001451
GRM 55 500 G	500	4.8		3	6001452
GRM 55 600 G	600	4.8		3	6001454

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

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 55/50 = 20 x 100 mm). Tested for the maintenance of electrical function according to DIN 4102 Part 12 (type: GRM 55 200 4.8 G, GRM 55 300 G, GRM 55 400 G, mounting work and parameters according to valid test certificate). Tested for installation above suspended fire protection ceilings (type: GRM 55 100 G, GRM 55 200 G, GRM 55 300 G, GRM 55 400 G, fire load 30 minutes, mounting work and parameters according to fire protection reports).

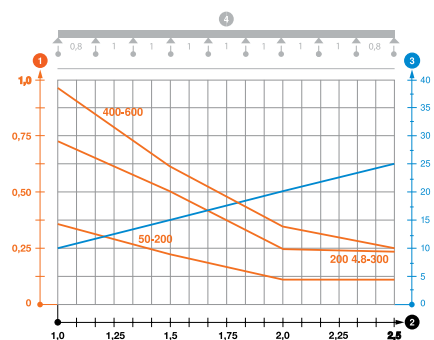
Type	Length mm	Dim. B mm	Usable cross-section cm²	
			Dim. mm	cm²
GRM 55 50 G	3000	52	16	
GRM 55 100 G	3000	100	40	
GRM 55 150 G	3000	150	63	
GRM 55 200 G	3000	200	87	
GRM 55 200 4.8 G	3000	200	87	
GRM 55 300 G	3000	300	129	
GRM 55 400 G	3000	400	175	
GRM 55 450 G	3000	450	195	
GRM 55 500 G	3000	500	220	
GRM 55 600 G	3000	600	265	

Dimensions



Type	1.0 m	1.5 m	2.0 m	2.5 m
	kN/m	kN/m	kN/m	kN/m
GRM 55 50 G	0.35	0.2	0.1	0.1
GRM 55 100 G	0.35	0.2	0.1	0.1
GRM 55 150 G	0.35	0.2	0.1	0.1
GRM 55 200 G	0.35	0.2	0.1	0.1
GRM 55 200 4.8 G	0.7	0.5	0.25	0.2
GRM 55 300 G	0.7	0.5	0.25	0.2
GRM 55 400 G	0.9	0.6	0.3	0.25
GRM 55 450 G	0.9	0.6	0.3	0.25
GRM 55 500 G	0.9	0.6	0.3	0.25
GRM 55 600 G	0.9	0.6	0.3	0.25

Load



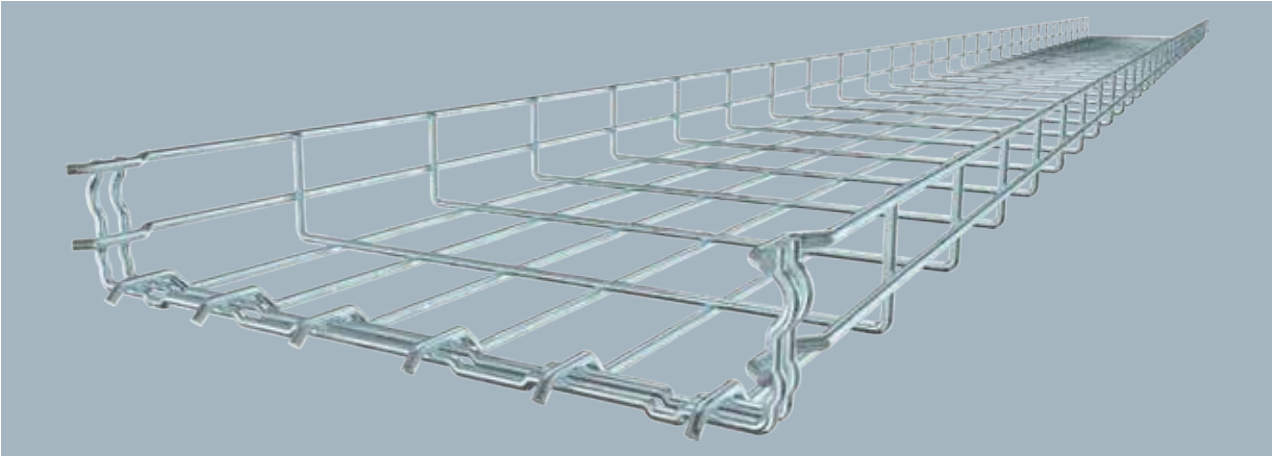
Load diagram, GR-Magic mesh cable tray, type GRM 55

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

St FT



Mesh cable tray GR-Magic® 55

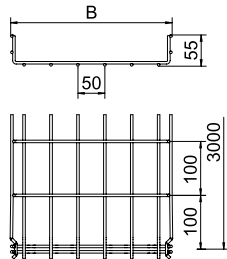


Mesh cable tray with shaped connector of side height 55 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
You can find detailed information regarding the UL classification in the respective certification.

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 55/50 = 20 x 100 mm).

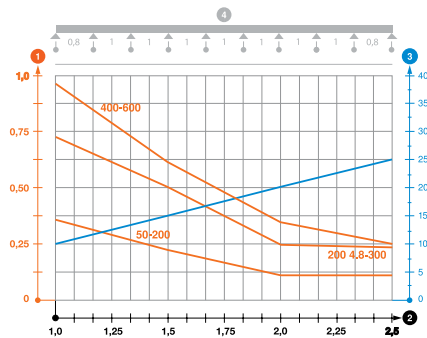
Type	Wire		Pack m	Item no.
	Width mm	Ø mm		
GRM 55 50 FT	50	3.9	3	6001415
GRM 55 100 FT	100	3.9	3	6001416
GRM 55 150 FT	150	3.9	3	6001418
GRM 55 200 FT	200	3.9	3	6001420
GRM 55 200 4.8FT	200	4.8	3	6001421
GRM 55 300 FT	300	4.8	3	6001424
GRM 55 400 FT	400	4.8	3	6001428
GRM 55 500 FT	500	4.8	3	6001432
GRM 55 600 FT	600	4.8	3	6001436

Dimensions



Type	Length mm	Dim. B mm	Usable	
			Dim. cross-section mm	cm ²
GRM 55 50 FT	3000	52	16	
GRM 55 100 FT	3000	100	40	
GRM 55 150 FT	3000	150	63	
GRM 55 200 FT	3000	200	87	
GRM 55 200 4.8FT	3000	200	87	
GRM 55 300 FT	3000	300	129	
GRM 55 400 FT	3000	400	175	
GRM 55 500 FT	3000	500	220	
GRM 55 600 FT	3000	600	265	

Load

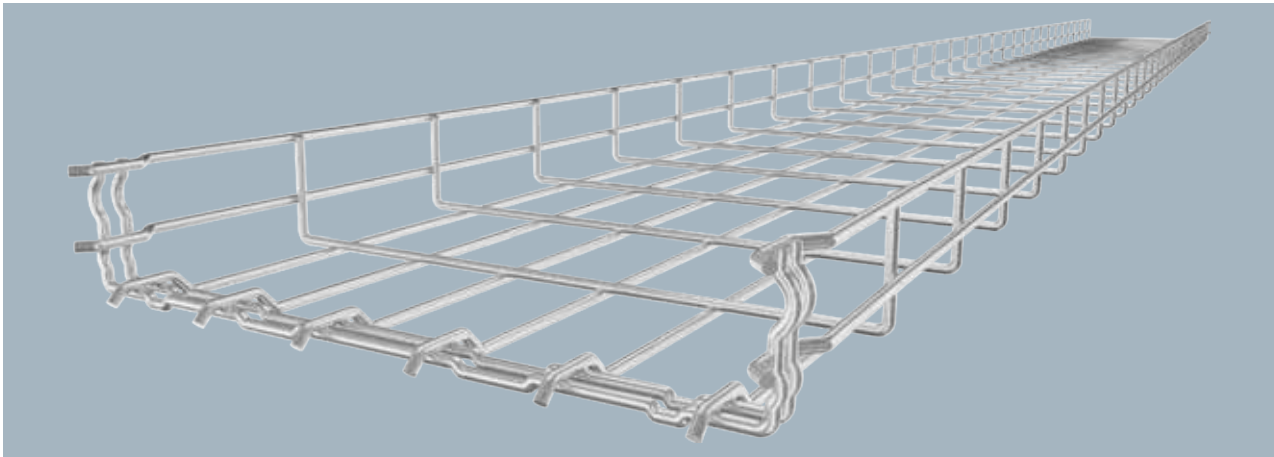


Type	1.0 m	1.5 m	2.0 m	2.5 m
	kN/m	kN/m	kN/m	kN/m
GRM 55 50 FT	0.35	0.2	0.1	0.1
GRM 55 100 FT	0.35	0.2	0.1	0.1
GRM 55 150 FT	0.35	0.2	0.1	0.1
GRM 55 200 FT	0.35	0.2	0.1	0.1
GRM 55 200 4.8FT	0.7	0.5	0.25	0.2
GRM 55 300 FT	0.7	0.5	0.25	0.2
GRM 55 400 FT	0.9	0.6	0.3	0.25
GRM 55 500 FT	0.9	0.6	0.3	0.25
GRM 55 600 FT	0.9	0.6	0.3	0.25

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

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

Mesh cable tray GR-Magic® 55

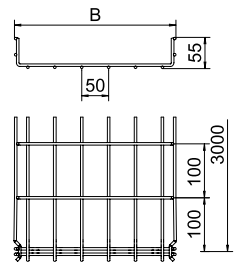


Type	Wire		Pack m	Item no.
	Width mm	Ø mm BS		
GRM 55 50 A2	50	3.9	3	6001070
GRM 55 100 A2	100	3.9	3	6001072
GRM 55 150 A2	150	3.9	3	6001074
GRM 55 200 A2	200	3.9	3	6001076
GRM 55 300 A2	300	4.8	3	6001078
GRM 55 400 A2	400	4.8	3	6001080
GRM 55 500 A2	500	4.8	3	6001082
GRM 55 600 A2	600	4.8	3	6001085

Mesh cable tray with shaped connector of side height 55 mm. Magnetic shield insulation without cover 15 dB, with cover 25 dB. No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 55/50 = 20 x 100 mm).

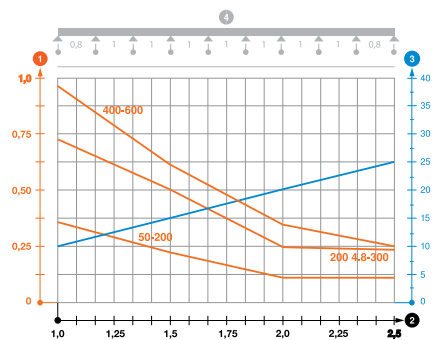
Type	Length mm	Usable	
		Dim. B mm	cross-section cm²
GRM 55 50 A2	3000	52	16
GRM 55 100 A2	3000	100	40
GRM 55 150 A2	3000	150	63
GRM 55 200 A2	3000	200	87
GRM 55 300 A2	3000	300	129
GRM 55 400 A2	3000	400	175
GRM 55 500 A2	3000	500	220
GRM 55 600 A2	3000	600	265

Dimensions



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

Load

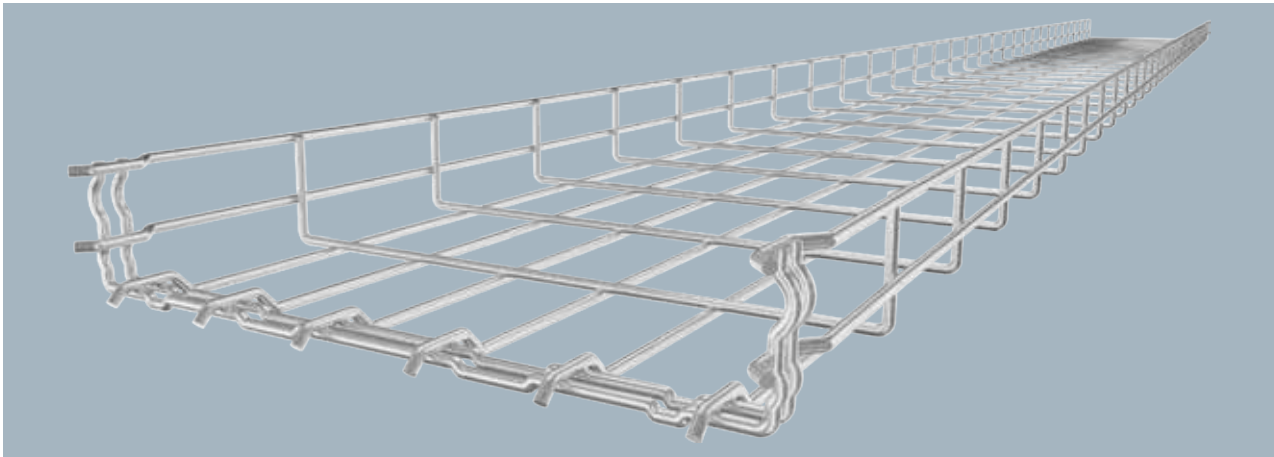


Load diagram, mesh cable tray GRM 55 VA

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



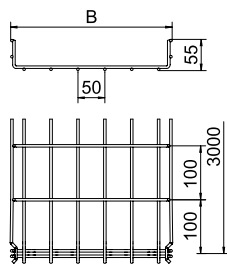
Mesh cable tray GR-Magic® 55



Mesh cable tray with shaped connector of side height 55 mm.
 Magnetic shield insulation without cover 15 dB, with cover 25 dB.
 No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 55/50 = 20 x 100 mm).

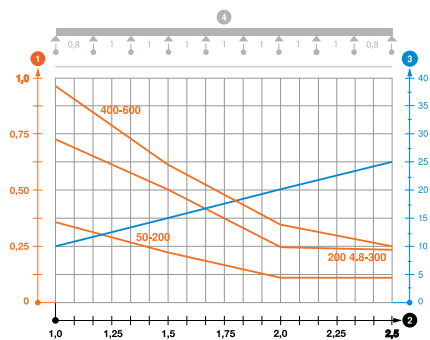
Type	Width mm	Wire		Pack m	Item no.
		Ø mm	BS		
GRM 55 50 A4	50	3.9		3	6001087
GRM 55 100 A4	100	3.9	🔥	3	6001088
GRM 55 150 A4	150	3.9		3	6001090
GRM 55 200 A4	200	3.9	🔥	3	6001091
GRM 55 300 A4	300	4.8	🔥	3	6001093
GRM 55 400 A4	400	4.8		3	6001095
GRM 55 500 A4	500	4.8		3	6001097
GRM 55 600 A4	600	4.8		3	6001099

Dimensions



Type	Length mm	Dim. B mm	Usable
			cross-section cm ²
GRM 55 50 A4	3000	52	16
GRM 55 100 A4	3000	100	40
GRM 55 150 A4	3000	150	63
GRM 55 200 A4	3000	200	87
GRM 55 300 A4	3000	300	129
GRM 55 400 A4	3000	400	175
GRM 55 500 A4	3000	500	220
GRM 55 600 A4	3000	600	265

Load



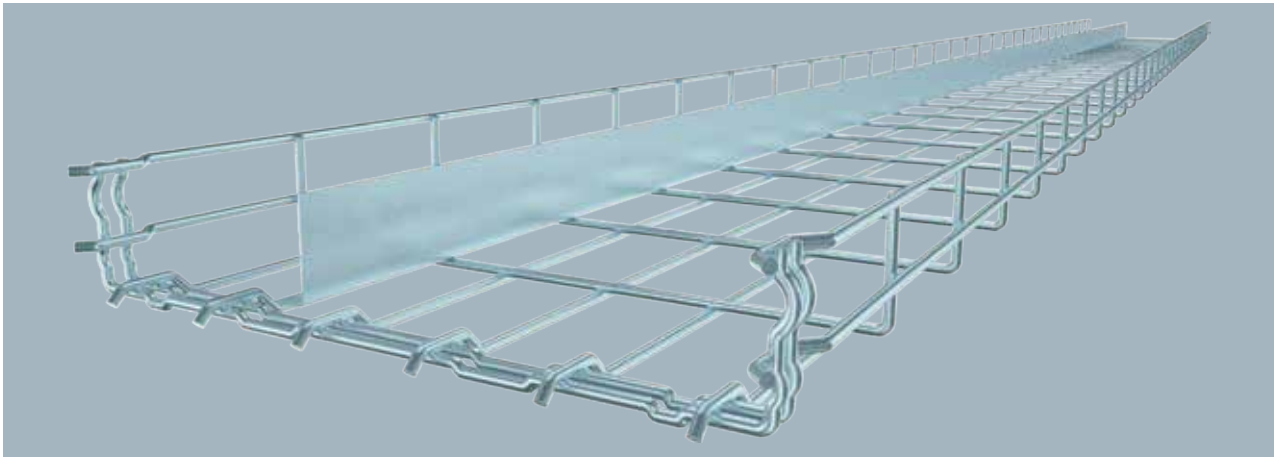
	1.0 m	1.5 m	2.0 m	2.5 m
	kN/m	kN/m	kN/m	kN/m
GRM 55 50 A4	0.35	0.2	0.1	0.1
GRM 55 100 A4	0.35	0.2	0.1	0.1
GRM 55 150 A4	0.35	0.2	0.1	0.1
GRM 55 200 A4	0.35	0.2	0.1	0.1
GRM 55 300 A4	0.7	0.5	0.25	0.2
GRM 55 400 A4	0.9	0.6	0.3	0.25
GRM 55 500 A4	0.9	0.6	0.3	0.25
GRM 55 600 A4	0.9	0.6	0.3	0.25

Load diagram, mesh cable tray GRM 55 VA

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

Mesh cable tray side height 55

Mesh cable tray GR-Magic® 55 with barrier strip



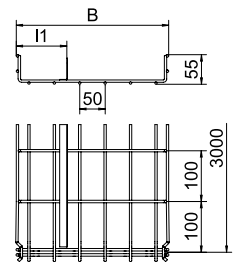
Type	Wire		Pack m	Item no.
	Width mm	Ø mm		
GRM-T 55 100 G	100	3.9	3	6006453
GRM-T 55 200 G	200	3.9	3	6006455
GRM-T 55 300 G	300	4.8	3	6006456
GRM-T 55 400 G	400	4.8	3	6006457
GRM-T 55 500 G	500	4.8	3	6006458

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

Magnetic shield insulation without cover 15 dB, with cover 25 dB. No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

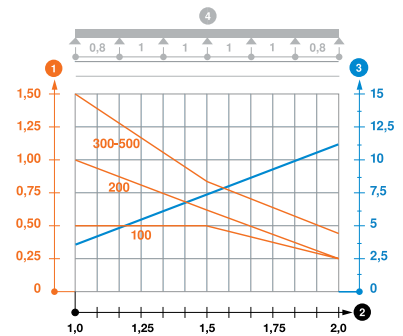
Type	Length mm	B mm	Usable
			Dim. cross-section cm ²
GRM-T 55 100 G	3000	100	40
GRM-T 55 200 G	3000	200	87
GRM-T 55 300 G	3000	300	129
GRM-T 55 400 G	3000	400	175
GRM-T 55 500 G	3000	500	220

Dimensions



Type	1.0 m	1.5 m	2.0 m
	kN/m	kN/m	kN/m
GRM-T 55 100 G	0.5	0.5	0.25
GRM-T 55 200 G	1	0.6	0.25
GRM-T 55 300 G	1.5	0.8	0.4
GRM-T 55 400 G	1.5	0.8	0.4
GRM-T 55 500 G	1.5	0.8	0.4

Load



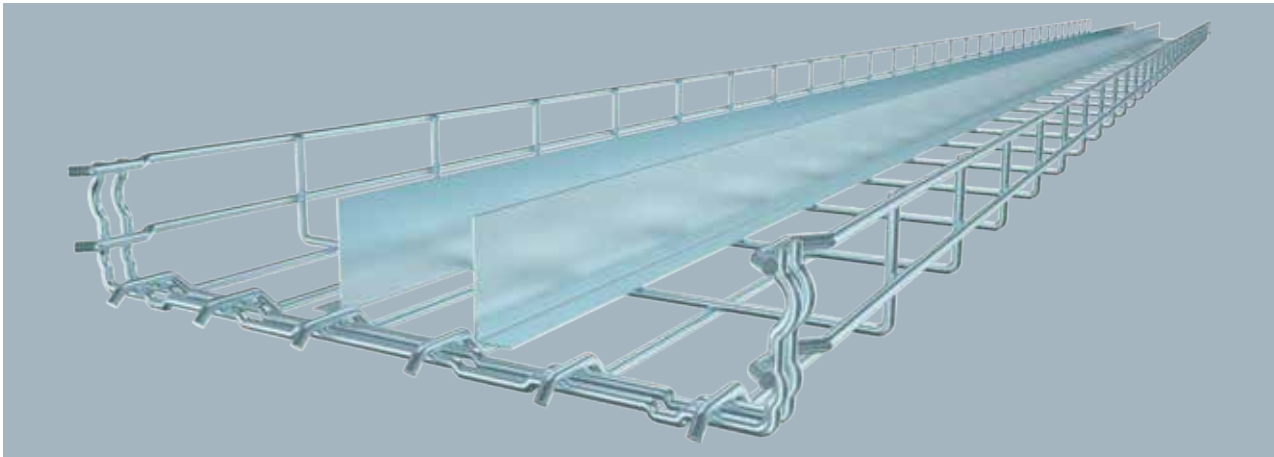
Load diagram, GR-Magic mesh cable tray, type GRM-1T 55

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

St G



Mesh cable tray GR-Magic® 55 with 2 barrier strip

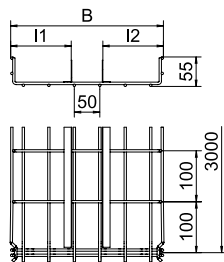


Mesh cable tray with shaped connector and two welded barrier strips of side height 55 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

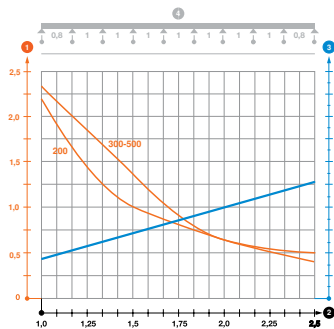
Type	Width mm	Wire Ø mm	Pack m	Item no.
GRM-2T 55 300 G	300	4.8	3	6006396
GRM-2T 55 400 G	400	4.8	3	6006397
GRM-2T 55 500 G	500	4.8	3	6006468

Dimensions



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

Load

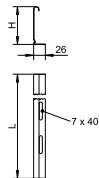


Type	1.0 m	1.5 m	2.0 m
	kN/m	kN/m	kN/m
GRM-2T 55 200 G	2	1	0.4
GRM-2T 55 300 G	2.3	1.4	0.6
GRM-2T 55 400 G	2.3	1.4	0.6
GRM-2T 55 500 G	1.5	0.8	0.55

Load diagram, GR-Magic mesh cable tray, type GRM-2T 55

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

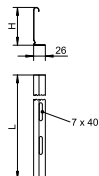
Separating retainer 45



Type	Metal			Pack m	Item no.
	Dim. H mm	thick- ness mm	Dim. L mm		
TSG 45 FS	45	0.75	3000	3	6062033
TSG 45 DD	45	0.75	3000	3	6062321

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

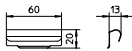
Separating retainer 45



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

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

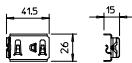
Separating retainer connector



Type	Pack Piece	Item no.
TSGV A2	10	6067970

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

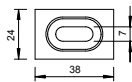
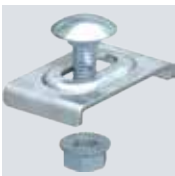
Clamping piece for separating retainer fastening in GRM



Type	Pack Piece	Item no.
KS GR A2	30	6062282

Clamping piece for fastening separating retainer in mesh cable trays.

GKT 38 hold-down clamp



Type	Pack Piece	Item no.
GKT 38 G	20	6017037

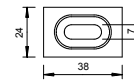
Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



GKT 38 hold-down clamp

Type	Pack Piece	Item no.
GKT 38 FT	20	6017061

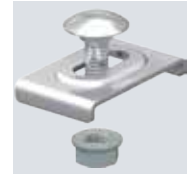
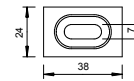
Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



Clamping piece GKT 38

Type	Pack Piece	Item no.
GKT 38 A2	20	6017045
GKT 38 A4	10	6017092

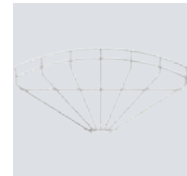
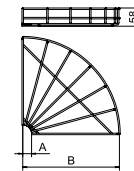
Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening separating retainer in mesh cable trays.



90° mesh cable tray bend, 55

Type	Width mm	Wire Ø mm	Pack Piece	Item no.
GRB 90 510 G	100	3.9	1	6001920
GRB 90 515 G	150	3.9	1	6001998
GRB 90 520 G	200	3.9	1	6001939
GRB 90 530 G	300	4.8	1	6001947
GRB 90 540 G	400	4.8	1	6001955
GRB 90 550 G	500	4.8	1	6001963
GRB 90 560 G	600	4.8	1	6001971

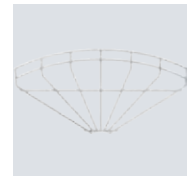
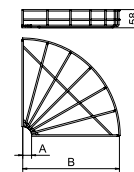
90° bend, horizontal, for all mesh cable trays of 55 mm side height.



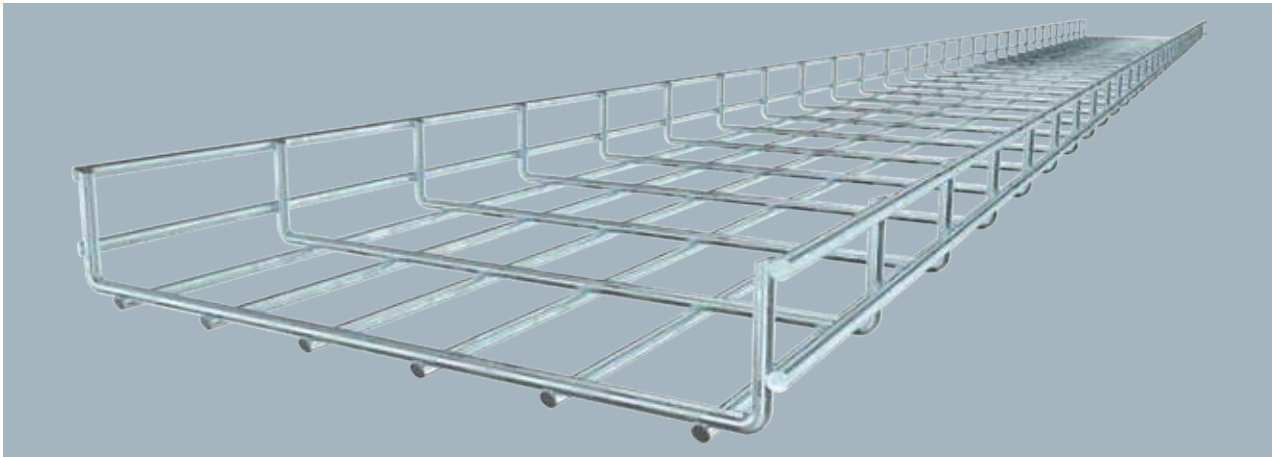
90° mesh cable tray bend, 55

Type	Width mm	Wire Ø mm	Pack Piece	Item no.
GRB 90 510 FT	100	3.9	1	6002218
GRB 90 520 FT	200	3.9	1	6002226
GRB 90 530 FT	300	4.8	1	6002234
GRB 90 540 FT	400	4.8	1	6002242
GRB 90 550 FT	500	4.8	1	6002250
GRB 90 560 FT	600	4.8	1	6002269
GRB 90 515 FT	150	3.9	1	6002222

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



Heavy-duty cable tray SGR 55

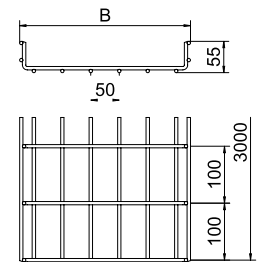


Type	Wire		Pack m	Item no.
	Width mm	Ø mm		
SGR 55 100 FT	100	6	3	6000122
SGR 55 150 FT	150	6	3	6000190
SGR 55 200 FT	200	6	3	6000209
SGR 55 300 FT	300	6	3	6000331
SGR 55 400 FT	400	6	3	6000451
SGR 55 500 FT	500	6	3	6000515
SGR 55 600 FT	600	6	3	6000775

Mesh cable tray made of spot-welded steel wire of side height 55 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
The grid width is 50 x 100 mm.

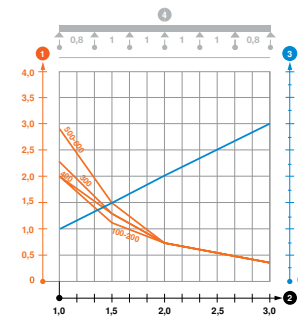
Type	Length mm	Usable Dim. cross- section	
		B mm	cm ²
SGR 55 100 FT	3000	100	40
SGR 55 150 FT	3000	150	63
SGR 55 200 FT	3000	200	87
SGR 55 300 FT	3000	300	129
SGR 55 400 FT	3000	400	175
SGR 55 500 FT	3000	500	220
SGR 55 600 FT	3000	600	265

Dimensions



	1.0 m 1.5 m 2.0 m 3.0 m			
	kN/m	kN/m	kN/m	kN/m
SGR 55 100 FT	2	1.15	0.75	0.4
SGR 55 150 FT	2	1.15	0.75	0.4
SGR 55 200 FT	2	1.15	0.75	0.4
SGR 55 300 FT	2	1.3	0.75	0.4
SGR 55 400 FT	2.3	1.3	0.75	0.4
SGR 55 500 FT	2.9	1.5	0.75	0.4
SGR 55 600 FT	2.9	1.5	0.75	0.4

Load

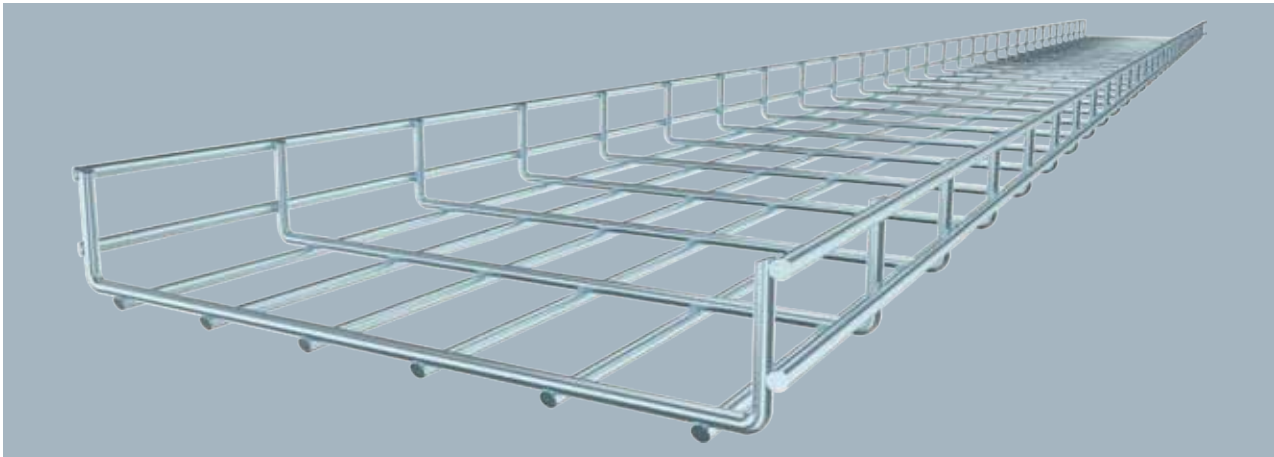


Load diagram, mesh cable tray, type SGR 55

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



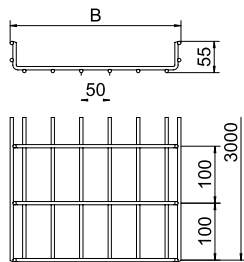
Heavy-duty cable tray SGR 55



Mesh cable tray made of spot-welded steel wire of side height 55 mm.
 Magnetic shield insulation without cover 15 dB, with cover 25 dB.
 The grid dimension is 50 x 100 mm.
 Stainless steel version on request.

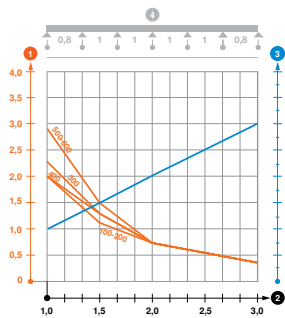
Type	Width mm	Wire Ø mm	Pack m	Item no.
SGR 55 100 G	100	6	3	6005470
SGR 55 150 G	150	6	3	6005472
SGR 55 200 G	200	6	3	6005474
SGR 55 300 G	300	6	3	6005476
SGR 55 400 G	400	6	3	6005478
SGR 55 500 G	500	6	3	6005480
SGR 55 600 G	600	6	3	6005482

Dimensions



Type	Length mm	Dim. B mm	Usable cross- section cm ²
SGR 55 100 G	3000	100	40
SGR 55 150 G	3000	150	63
SGR 55 200 G	3000	200	87
SGR 55 300 G	3000	300	129
SGR 55 400 G	3000	400	175
SGR 55 500 G	3000	500	220
SGR 55 600 G	3000	600	265

Load

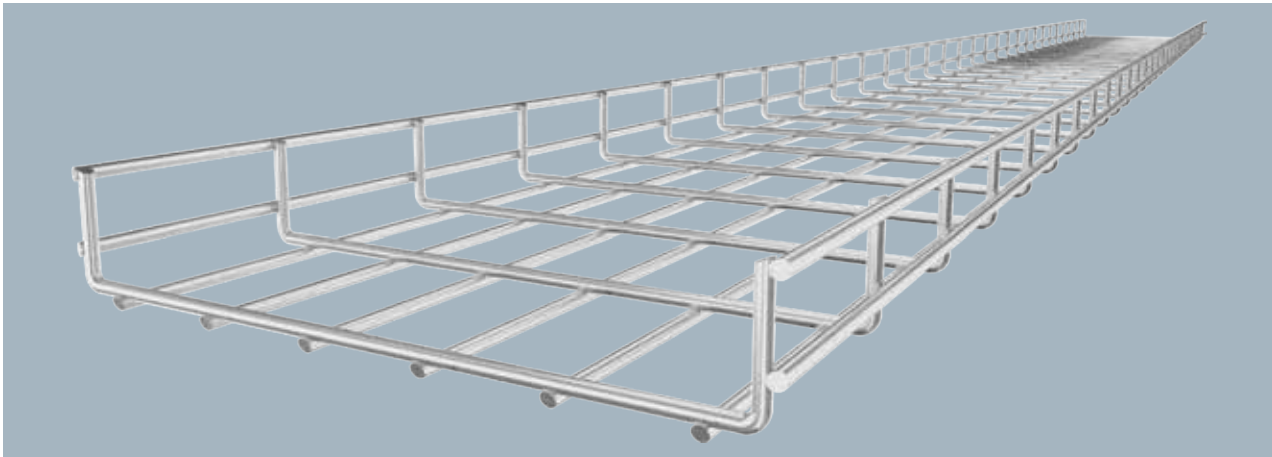


	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
SGR 55 100 G	2	1.15	0.75	0.4
SGR 55 150 G	2	1.15	0.75	0.4
SGR 55 200 G	2	1.15	0.75	0.4
SGR 55 300 G	2	1.3	0.75	0.4
SGR 55 400 G	2.3	1.3	0.75	0.4
SGR 55 500 G	2.9	1.5	0.75	0.4
SGR 55 600 G	2.9	1.5	0.75	0.4

Load diagram, mesh cable tray, type SGR 55

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

Heavy-duty cable tray SGR 55

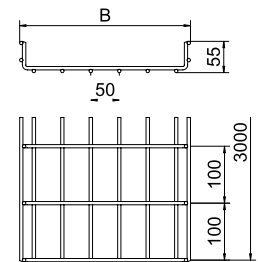


Type	Wire		Pack m	Item no.
	Width mm	Ø mm		
SGR 55 100 A2	100	6	3	6000909
SGR 55 150 A2	150	6	3	6000913
SGR 55 200 A2	200	6	3	6000917
SGR 55 300 A2	300	6	3	6000925
SGR 55 400 A2	400	6	3	6000933
SGR 55 500 A2	500	6	3	6000941
SGR 55 600 A2	600	6	3	6000958

Mesh cable tray made of spot-welded steel wire of side height 55 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
The grid width is 50 x 100 mm.

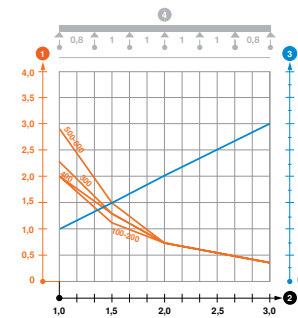
Type	Length mm	Usable	
		Dim. B mm	cross-section cm ²
SGR 55 100 A2	3000	100	40
SGR 55 150 A2	3000	150	63
SGR 55 200 A2	3000	200	87
SGR 55 300 A2	3000	300	129
SGR 55 400 A2	3000	400	175
SGR 55 500 A2	3000	500	220
SGR 55 600 A2	3000	600	265

Dimensions



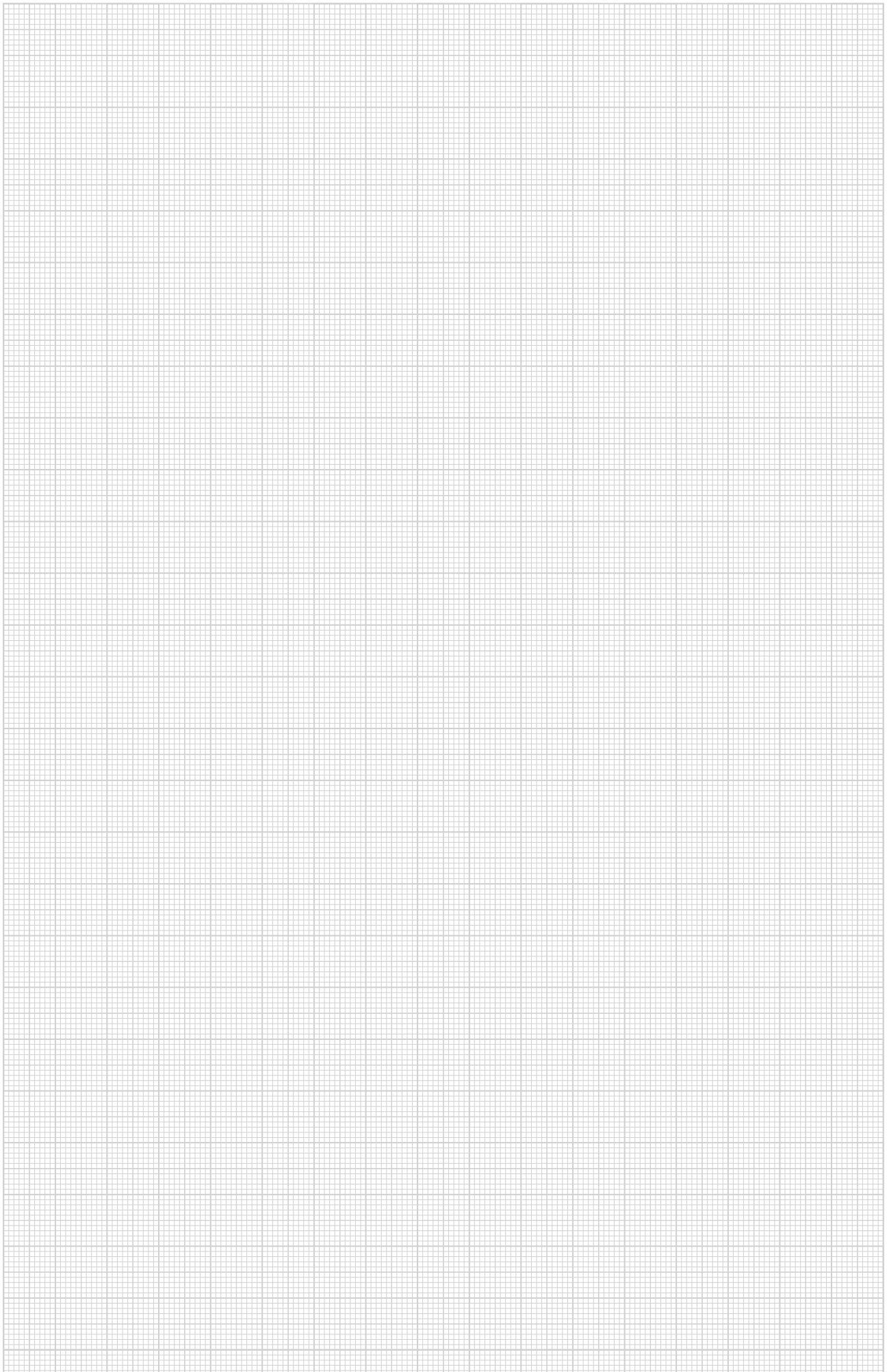
	1.0 m 1.5 m 2.0 m 3.0 m			
	kN/m	kN/m	kN/m	kN/m
SGR 55 100 A2	2	1.15	0.75	0.4
SGR 55 150 A2	2	1.15	0.75	0.4
SGR 55 200 A2	2	1.15	0.75	0.4
SGR 55 300 A2	2	1.3	0.75	0.4
SGR 55 400 A2	2.3	1.3	0.75	0.4
SGR 55 500 A2	2.9	1.5	0.75	0.4
SGR 55 600 A2	2.9	1.5	0.75	0.4

Load



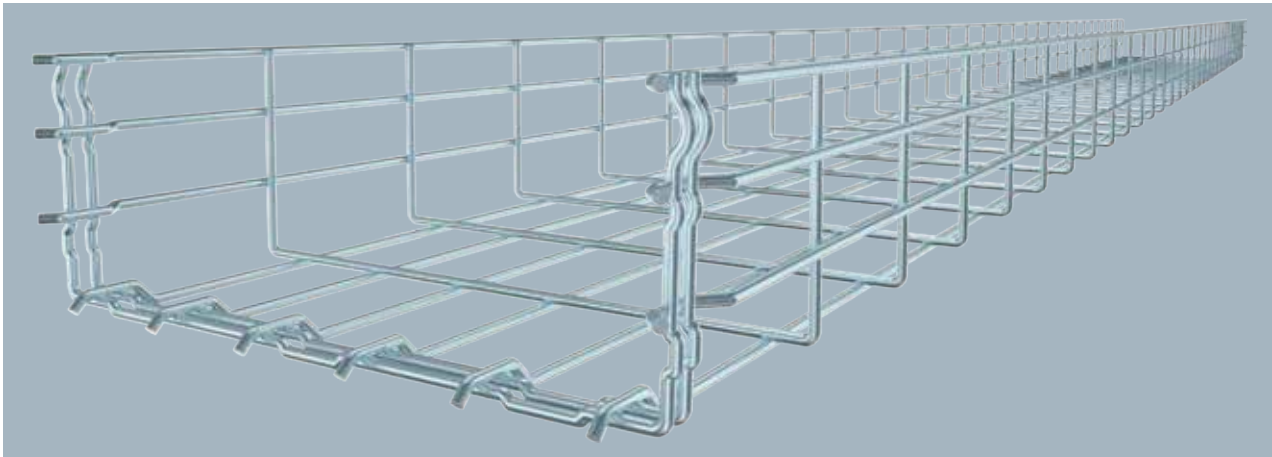
Load diagram, mesh cable tray, type SGR 55

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



Mesh cable tray GR-Magic® 105

St G

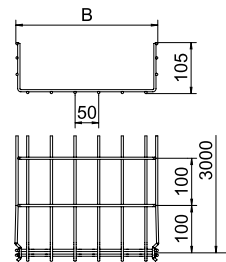


Type	Wire		Pack m	Item no.
	Width mm	Ø mm		
GRM 105 100 G	100	3.9	3	6002402
GRM 105 150 G	150	3.9	3	6002404
GRM 105 200 G	200	4.8	3	6002406
GRM 105 300 G	300	4.8	3	6002408
GRM 105 400 G	400	4.8	3	6002410
GRM 105 450 G	450	4.8	3	6002413
GRM 105 500 G	500	4.8	3	6002415
GRM 105 600 G	600	4.8	3	6002417

Mesh cable tray with shaped connector of side height 105 mm. Magnetic shield insulation without cover 15 dB, with cover 25 dB. No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

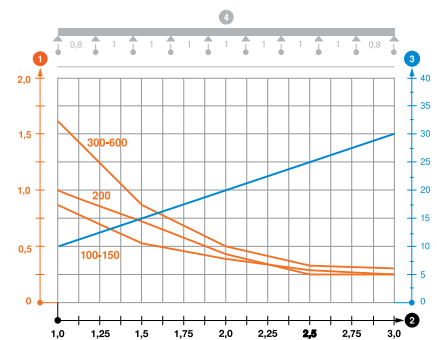
Type	Length mm	Usable	
		Dim. B mm	cross- section cm ²
GRM 105 100 G	3000	100	82
GRM 105 150 G	3000	150	130
GRM 105 200 G	3000	200	175
GRM 105 300 G	3000	300	268
GRM 105 400 G	3000	400	363
GRM 105 450 G	3000	450	411
GRM 105 500 G	3000	500	459
GRM 105 600 G	3000	600	554

Dimensions



	1.0 m	1.5 m	2.0 m	3.0 m
	kN/m	kN/m	kN/m	kN/m
GRM 105 100 G	0.8	0.55	0.37	0.25
GRM 105 150 G	0.8	0.55	0.37	0.25
GRM 105 200 G	1	0.7	0.4	0.25
GRM 105 300 G	1.6	0.8	0.5	0.3
GRM 105 400 G	1.6	0.8	0.5	0.3
GRM 105 450 G	1.6	0.8	0.5	0.3
GRM 105 500 G	1.6	0.8	0.5	0.3
GRM 105 600 G	1.6	0.8	0.5	0.3

Load

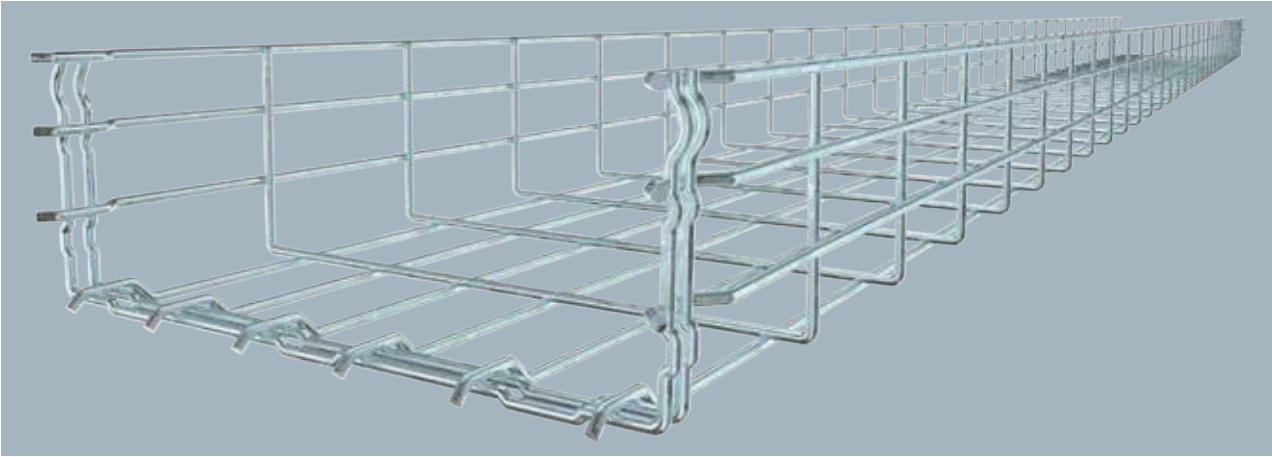


Load diagram, mesh cable tray, type GRM 105

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



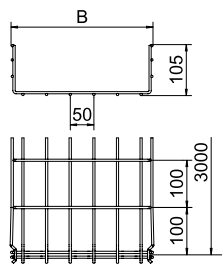
Mesh cable tray GR-Magic® 105



Mesh cable tray with shaped connector of side height 105 mm.
 Magnetic shield insulation without cover 15 dB, with cover 25 dB.
 No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

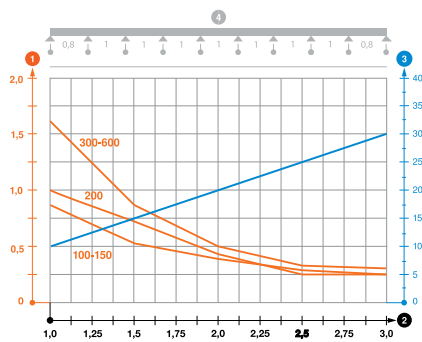
Type	Wire		Pack m	Item no.
	Width mm	Ø mm		
GRM 105 100 FT	100	3.9	3	6002431
GRM 105 150 FT	150	3.9	3	6002433
GRM 105 200 FT	200	4.8	3	6002435
GRM 105 300 FT	300	4.8	3	6002437
GRM 105 400 FT	400	4.8	3	6002439
GRM 105 450 FT	450	4.8	3	6002441
GRM 105 500 FT	500	4.8	3	6002443
GRM 105 600 FT	600	4.8	3	6002445

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section
			cm²
GRM 105 100 FT	3000	100	82
GRM 105 150 FT	3000	150	130
GRM 105 200 FT	3000	200	175
GRM 105 300 FT	3000	300	268
GRM 105 400 FT	3000	400	363
GRM 105 450 FT	3000	450	411
GRM 105 500 FT	3000	500	459
GRM 105 600 FT	3000	600	554

Load



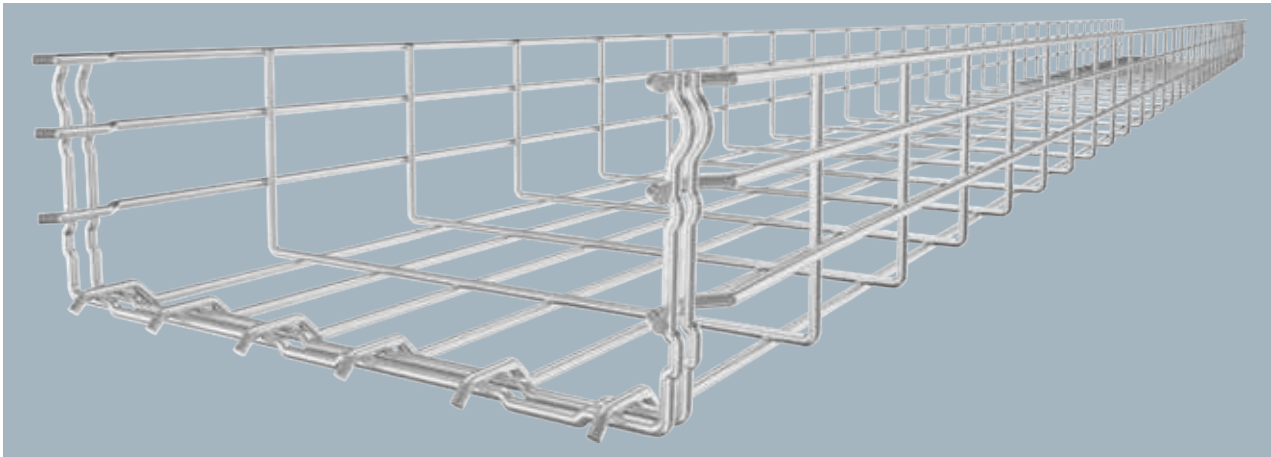
Type	1.0 m	1.5 m	2.0 m	3.0 m
	kN/m	kN/m	kN/m	kN/m
GRM 105 100 FT	0.8	0.55	0.37	0.25
GRM 105 150 FT	0.8	0.55	0.37	0.25
GRM 105 200 FT	1	0.7	0.4	0.25
GRM 105 300 FT	1.6	0.8	0.5	0.3
GRM 105 400 FT	1.6	0.8	0.5	0.3
GRM 105 450 FT	1.6	0.8	0.5	0.3
GRM 105 500 FT	1.6	0.8	0.5	0.3
GRM 105 600 FT	1.6	0.8	0.5	0.3

Load diagram, mesh cable tray, type GRM 105

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

Mesh cable tray GR-Magic® 105

A2 2B

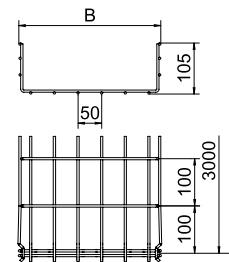


Type	Wire		Pack m	Item no.
	Width mm	Ø mm		
GRM 105 100 A2	100	3.9	3	6002451
GRM 105 150 A2	150	3.9	3	6002455
GRM 105 200 A2	200	4.8	3	6002457
GRM 105 300 A2	300	4.8	3	6002460
GRM 105 400 A2	400	4.8	3	6002463
GRM 105 500 A2	500	4.8	3	6002466
GRM 105 600 A2	600	4.8	3	6002469

Mesh cable tray with shaped connector of side height 105 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

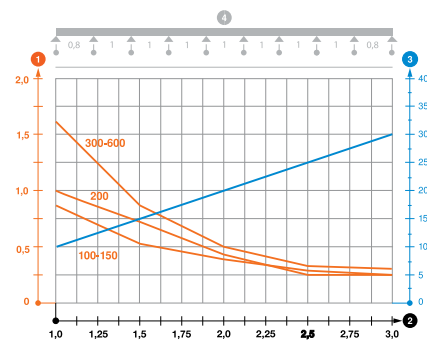
Type	Length mm	Usable Dim. cross-section	
		B mm	cm ²
GRM 105 100 A2	3000	100	82
GRM 105 150 A2	3000	150	130
GRM 105 200 A2	3000	200	175
GRM 105 300 A2	3000	300	268
GRM 105 400 A2	3000	400	363
GRM 105 500 A2	3000	500	459
GRM 105 600 A2	3000	600	554

Dimensions



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

Load



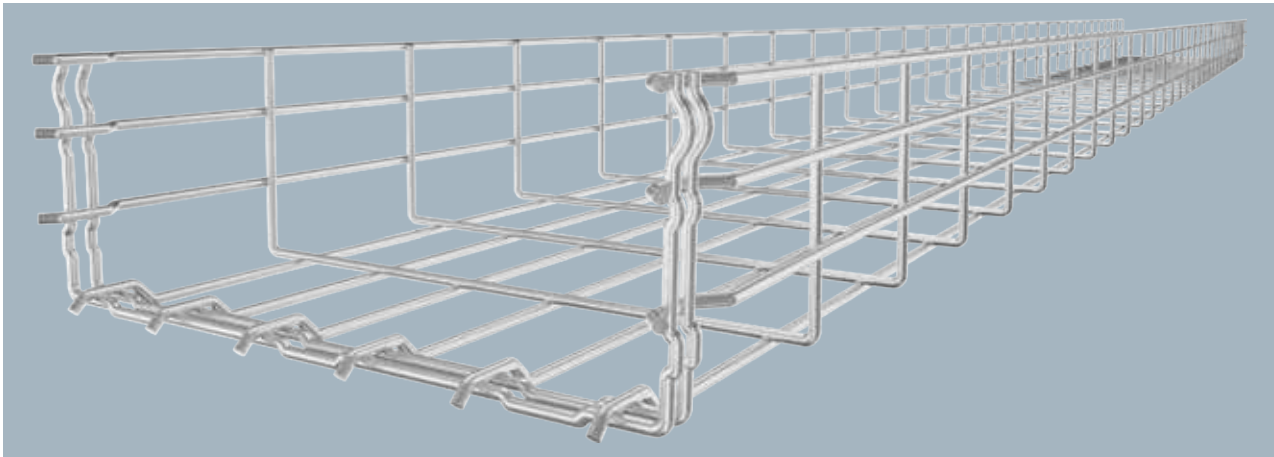
Load diagram, mesh cable tray, type GRM 105

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

VA 2B



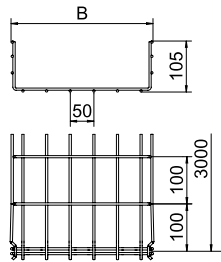
Mesh cable tray GR-Magic® 105



Mesh cable tray with shaped connector of side height 105 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

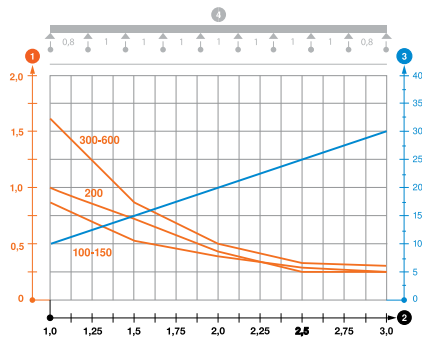
Type	Wire		Pack m	Item no.
	Width mm	Ø mm		
GRM 105 100 A4	100	3.9	3	6002475
GRM 105 150 A4	150	3.9	3	6002476
GRM 105 200 A4	200	4.8	3	6002477
GRM 105 300 A4	300	4.8	3	6002479
GRM 105 400 A4	400	4.8	3	6002481
GRM 105 500 A4	500	4.8	3	6002483
GRM 105 600 A4	600	4.8	3	6002485

Dimensions



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

Load

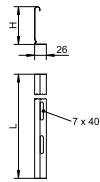


	1.0 m	1.5 m	2.0 m	3.0 m
	kN/m	kN/m	kN/m	kN/m
GRM 105 100 A4	0.8	0.55	0.37	0.25
GRM 105 150 A4	0.8	0.55	0.37	0.25
GRM 105 200 A4	0.8	0.55	0.37	0.25
GRM 105 300 A4	1.1	0.75	0.53	0.3
GRM 105 400 A4	1.1	0.75	0.53	0.3
GRM 105 500 A4	1.25	0.85	0.6	0.3
GRM 105 600 A4	1.25	0.85	0.6	0.3

Load diagram, mesh cable tray, type GRM 105

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

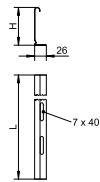
Barrier strip 85



Type	Metal			Pack m	Item no.
	Dim. H mm	thick-ness mm	Dim. L mm		
TSG 85 FS	85	0.75	3000	3	6062114
TSG 85 DD	85	0.75	3000	3	6062331

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

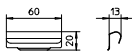
Barrier strip 85



Type	Metal			Pack m	Item no.
	Dim. H mm	thick-ness mm	Dim. L mm		
TSG 85 A2	85	0.75	3000	3	6062173

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

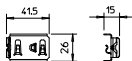
Separating retainer connector



Type	Pack Piece	Item no.
TSGV A2	10	6067970

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

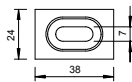
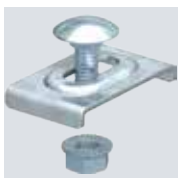
Clamping piece for separating retainer fastening in GRM



Type	Pack Piece	Item no.
KS GR A2	30	6062282

Clamping piece for fastening separating retainer in mesh cable trays.

GKT 38 hold-down clamp



Type	Pack Piece	Item no.
GKT 38 G	20	6017037

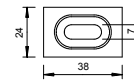
Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



GKT 38 hold-down clamp

Type	Pack Piece	Item no.
GKT 38 FT	20	6017061

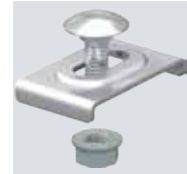
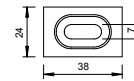
Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



Clamping piece GKT 38

Type	Pack Piece	Item no.
GKT 38 A2	20	6017045
GKT 38 A4	10	6017092

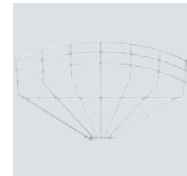
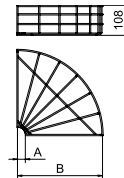
Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening separating retainer in mesh cable trays.



90° mesh cable tray bend, 105

Type	Width mm	Dim. A mm	Dim. B mm	Dim. H mm	Wire Ø mm	Pack Piece	Item no.
GRB 90 110 G	100	28	106	108	3.9	1	6002370
GRB 90 115 G	150	28	156	108	3.9	1	6002372
GRB 90 120 G	200	28	206	108	4.8	1	6002374
GRB 90 130 G	300	28	306	108	4.8	1	6002376
GRB 90 140 G	400	28	406	108	4.8	1	6002378
GRB 90 145 G	450	33	456	108	4.8	1	6002380
GRB 90 150 G	500	33	506	108	4.8	1	6002382
GRB 90 160 G	600	33	606	108	4.8	1	6002384

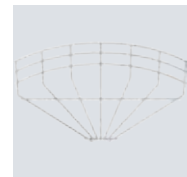
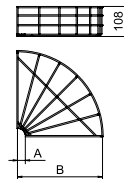
90° bend, horizontal, for all mesh cable trays of 105 mm side height.



90° mesh cable tray bend, 105

Type	Width mm	Dim. A mm	Dim. B mm	Dim. H mm	Wire Ø mm	Pack Piece	Item no.
GRB 90 110 FT	100	28	106	108	3.9	1	6002307
GRB 90 115 FT	150	28	156	108	3.9	1	6002311
GRB 90 120 FT	200	28	206	108	4.8	1	6002315
GRB 90 130 FT	300	28	306	108	4.8	1	6002323
GRB 90 140 FT	400	28	406	108	4.8	1	6002331
GRB 90 150 FT	500	33	506	108	4.8	1	6002358
GRB 90 160 FT	600	33	606	108	4.8	1	6002366
GRB 90 145 FT	450	33	456	108	4.8	1	6002335

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



Heavy-duty cable tray SGR 105

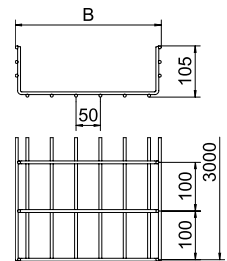


Type	Wire		Pack m	Item no.
	Width mm	Ø mm		
SGR 105 150 FT	150	6	3	6003175
SGR 105 200 FT	200	6	3	6003214
SGR 105 300 FT	300	6	3	6003309
SGR 105 400 FT	400	6	3	6003402
SGR 105 500 FT	500	6	3	6003515
SGR 105 600 FT	600	6	3	6003616

Mesh cable tray made of spot-welded steel wire of side height 105 mm.
 Magnetic shield insulation without cover 15 dB, with cover 25 dB.
 The grid width is 50 x 100 mm.

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

Dimensions

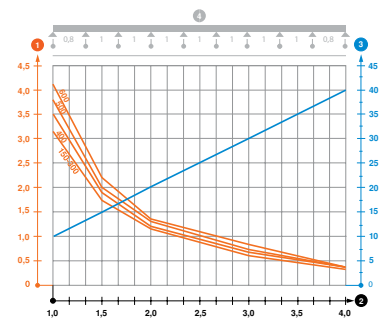


	1.0 m	1.5 m	2.0 m	3.0 m	4.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
SGR 105 150 FT	3.1	1.75	1.15	0.6	0.4
SGR 105 200 FT	3.1	1.75	1.15	0.6	0.4
SGR 105 300 FT	3.1	1.75	1.15	0.6	0.4
SGR 105 400 FT	3.5	1.9	1.2	0.7	0.45
SGR 105 500 FT	3.8	2	1.3	0.75	0.45
SGR 105 600 FT	4.1	2.2	1.35	0.8	0.45

Load

Load diagram, mesh cable tray, type SGR 105

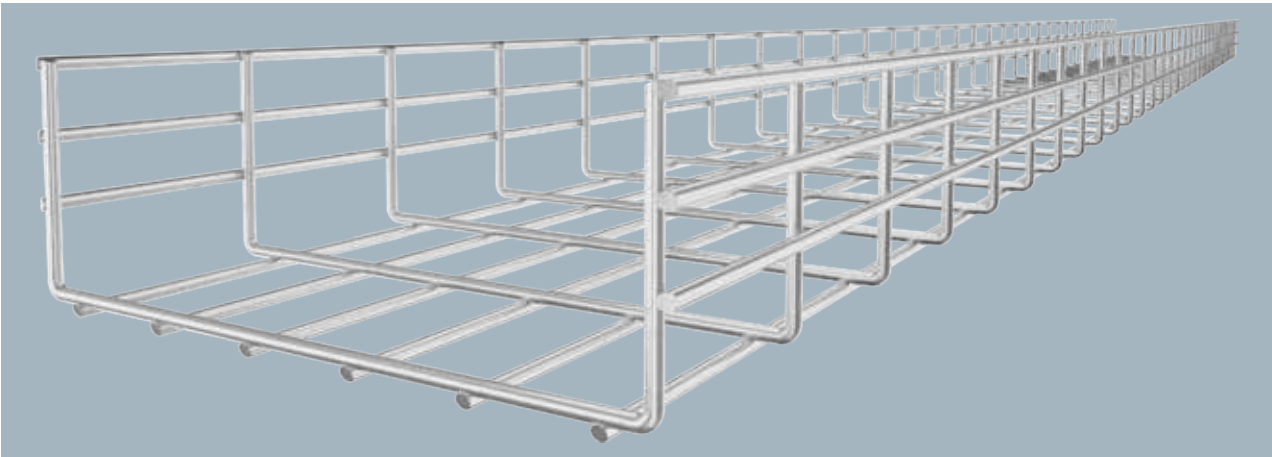
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



A2 2B



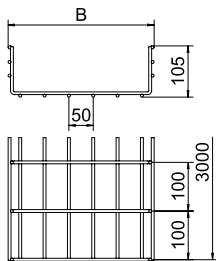
Heavy-duty cable tray SGR 105



Mesh cable tray made of spot-welded steel wire of side height 105 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
The grid width is 50 x 100 mm.

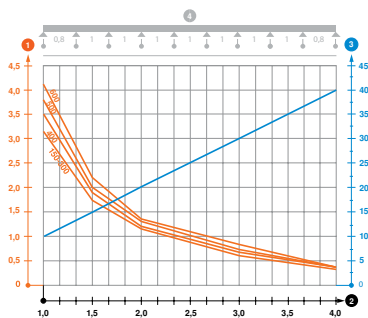
Type	Width mm	Wire Ø mm	Pack m	Item no.
SGR 105 200 A2	200	6	3	6003625
SGR 105 300 A2	300	6	3	6003627
SGR 105 400 A2	400	6	3	6003629
SGR 105 500 A2	500	6	3	6003631
SGR 105 600 A2	600	6	3	6003633

Dimensions



Type	Length mm	Dim. B mm	Usable cross- section cm ²
SGR 105 200 A2	3000	200	175
SGR 105 300 A2	3000	300	268
SGR 105 400 A2	3000	400	363
SGR 105 500 A2	3000	500	459
SGR 105 600 A2	3000	600	554

Load

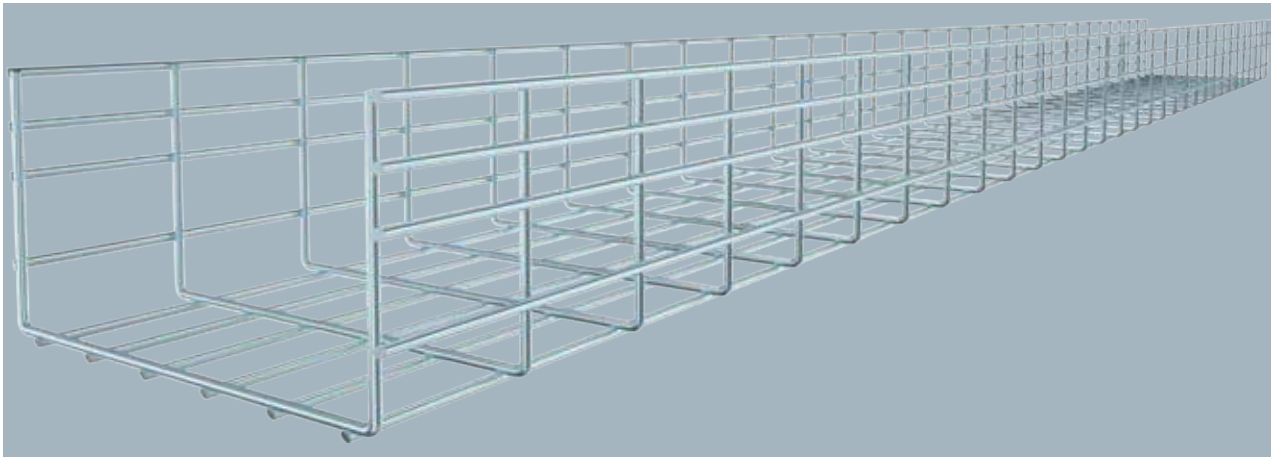


	1.0 m	1.5 m	2.0 m	3.0 m	4.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
SGR 105 150 A2	3.1	1.75	1.15	0.6	0.4
SGR 105 200 A2	3.1	1.75	1.15	0.6	0.4
SGR 105 300 A2	3.1	1.75	1.15	0.6	0.4
SGR 105 400 A2	3.5	1.9	1.2	0.7	0.45
SGR 105 500 A2	3.8	2	1.3	0.75	0.45
SGR 105 600 A2	4.1	2.2	1.35	0.8	0.45

Load diagram, mesh cable tray, type SGR 105

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

Heavy-duty cable tray SGR 155

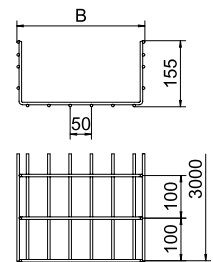


Type	Wire		Pack m	Item no.
	Width mm	Ø mm		
SGR 155 300 G	300	6	3	6003681
SGR 155 450 G	450	6	3	6003684
SGR 155 500 G	500	6	3	6003685
SGR 155 600 G	600	6	3	6003687

Mesh cable tray made of spot-welded steel wire of side height 155 mm.
 Magnetic shield insulation without cover 15 dB, with cover 25 dB.
 The grid width is 50 x 100 mm.

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

Dimensions

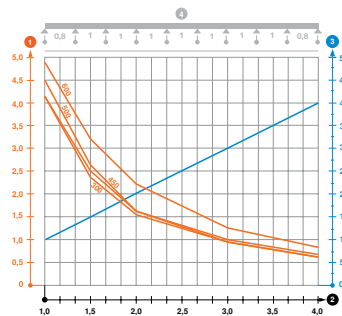


Type	1.0 m	1.5 m	2.0 m	3.0 m	4.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
SGR 155 300 G	4.1	2.4	1.55	0.95	0.6
SGR 155 450 G	4.1	2.5	1.6	0.95	0.6
SGR 155 500 G	4.5	2.6	1.6	1	0.65
SGR 155 600 G	4.9	3.2	2.2	1.25	0.8

Load

Load diagram, mesh cable tray, type SGR 155

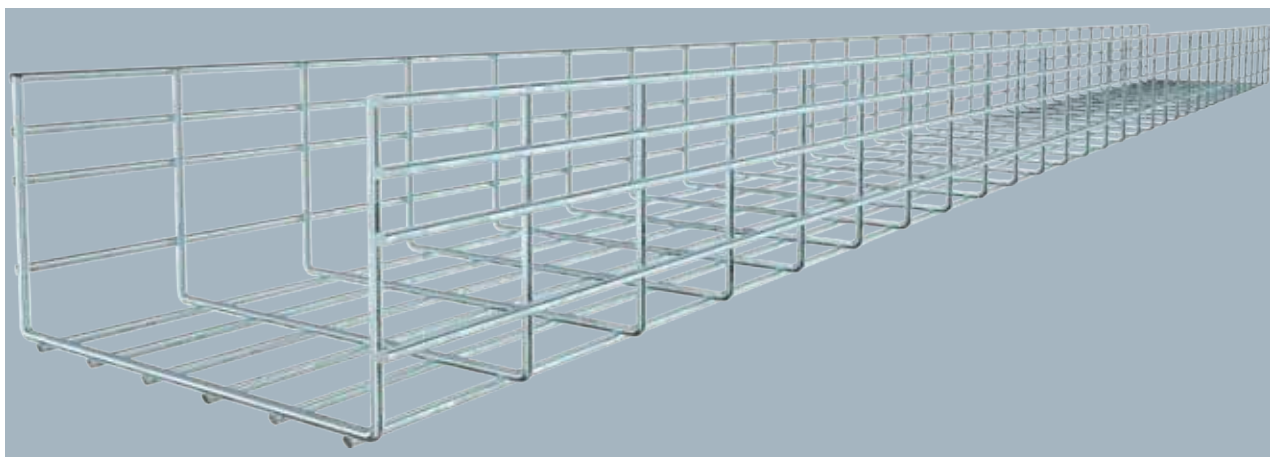
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



St FT



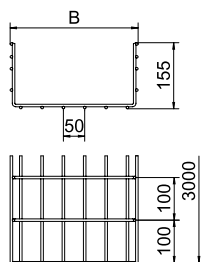
Heavy-duty cable tray SGR 155



Mesh cable tray made of spot-welded steel wire of side height 155 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
The grid width is 50 x 100 mm.

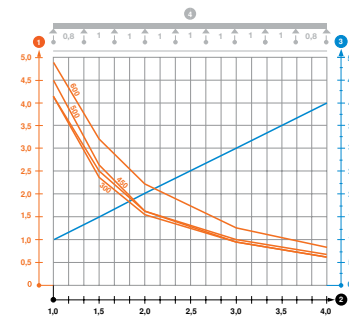
Type	Width mm	Wire Ø mm	Pack m	Item no.
SGR 155 300 FT	300	6	3	6003692
SGR 155 450 FT	450	6	3	6003695
SGR 155 500 FT	500	6	3	6003696
SGR 155 600 FT	600	6	3	6003698

Dimensions



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

Load

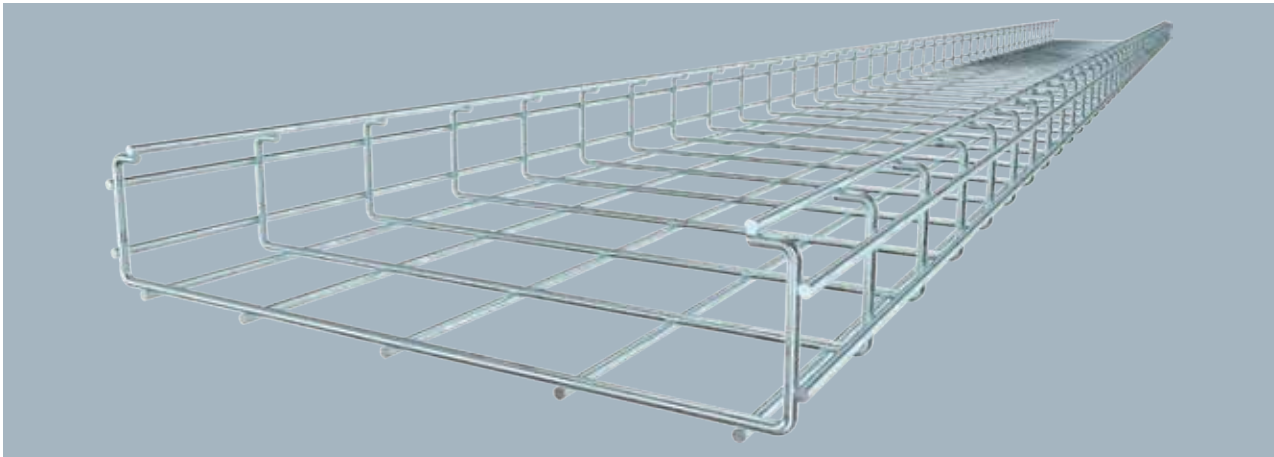


	1.0 m	1.5 m	2.0 m	3.0 m	4.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
SGR 155 300 FT	4.1	2.4	1.55	0.95	0.6
SGR 155 450 FT	4.1	2.5	1.6	0.95	0.6
SGR 155 500 FT	4.5	2.6	1.6	1	0.65
SGR 155 600 FT	4.9	3.2	2.2	1.25	0.8

Load diagram, mesh cable tray, type SGR 155

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

C mesh cable tray CGR 50

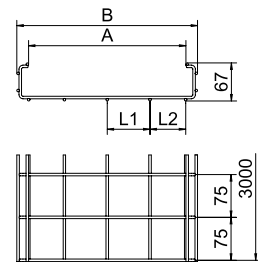


Type	Side height mm	Wire Ø mm	Pack m	Item no.
CGR 50 50 FT	50	4.5	3	6017428
CGR 50 100 FT	50	4.5	3	6017436
CGR 50 200 FT	50	4.5	3	6017444
CGR 50 300 FT	50	4.5	3	6017452
CGR 50 400 FT	50	4.5	3	6017460

C-shaped mesh cable tray made of spot-welded steel wire of side height 50 mm.
Magnetic shield insulation 15 dB.

Type	Length mm	Dim. A mm	Dim. B mm	Usable cross-section cm ²
CGR 50 50 FT	3000	26	67	13
CGR 50 100 FT	3000	76	117	34
CGR 50 200 FT	3000	176	217	75
CGR 50 300 FT	3000	276	317	116
CGR 50 400 FT	3000	376	417	157

Dimensions

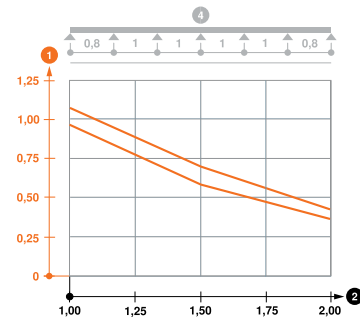


Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
CGR 50 50 FT	0.95	0.6	0.35
CGR 50 100 FT	0.95	0.6	0.35
CGR 50 200 FT	1.1	0.7	0.4
CGR 50 300 FT	1.1	0.7	0.4
CGR 50 400 FT	1.1	0.7	0.4

Load

Load diagram, C mesh cable tray, type CGR 50

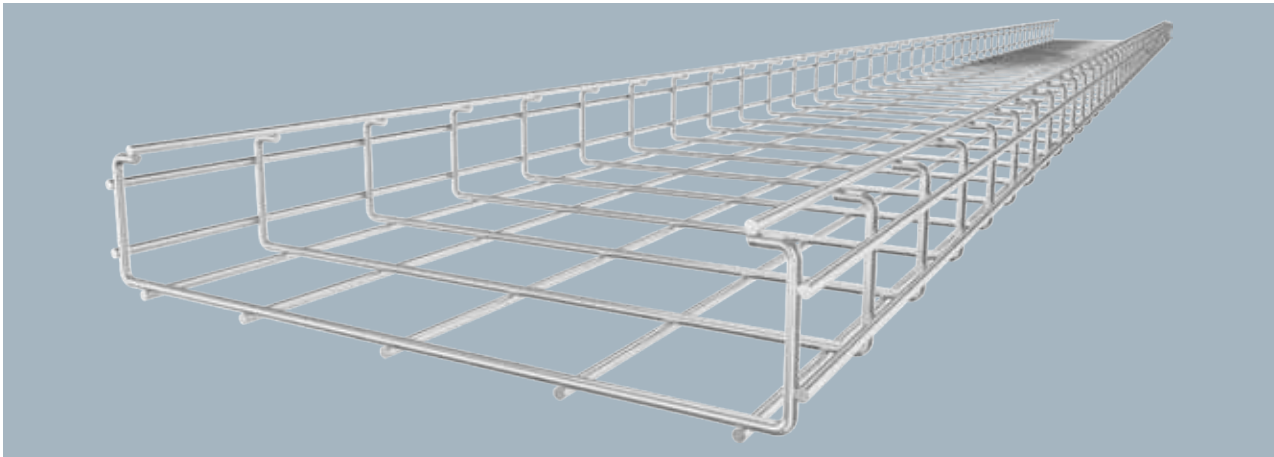
- ① Permitted cable tray/ladder load in kN/m without man load
- ② Support width in m
- ③ Rail bend in mm at permitted kN/m
- ④ Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



A2 2B



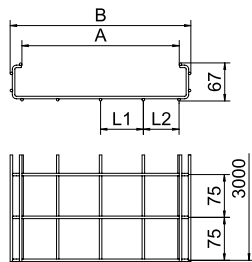
C mesh cable tray CGR 50



C-shaped mesh cable tray made of spot-welded steel wire of side height 50 mm.
Magnetic shield insulation 15 dB.

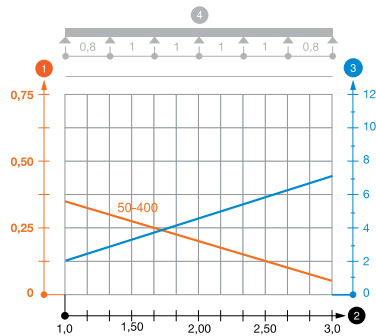
Type	Side height mm	Wire Ø mm	Pack m	Item no.
CGR 50 50 A2	50	4,5	3	6016200
CGR 50 100 A2	50	4,5	3	6016235
CGR 50 200 A2	50	4,5	3	6016251
CGR 50 300 A2	50	4,5	3	6016253
CGR 50 400 A2	50	4,5	3	6016255

Dimensions



Type	Length mm	Dim. A mm	Dim. B mm	Usable cross-section cm ²
CGR 50 50 A2	3000	26	67	13
CGR 50 100 A2	3000	76	117	33
CGR 50 200 A2	3000	176	217	74
CGR 50 300 A2	3000	276	317	116
CGR 50 400 A2	3000	376	417	157

Load

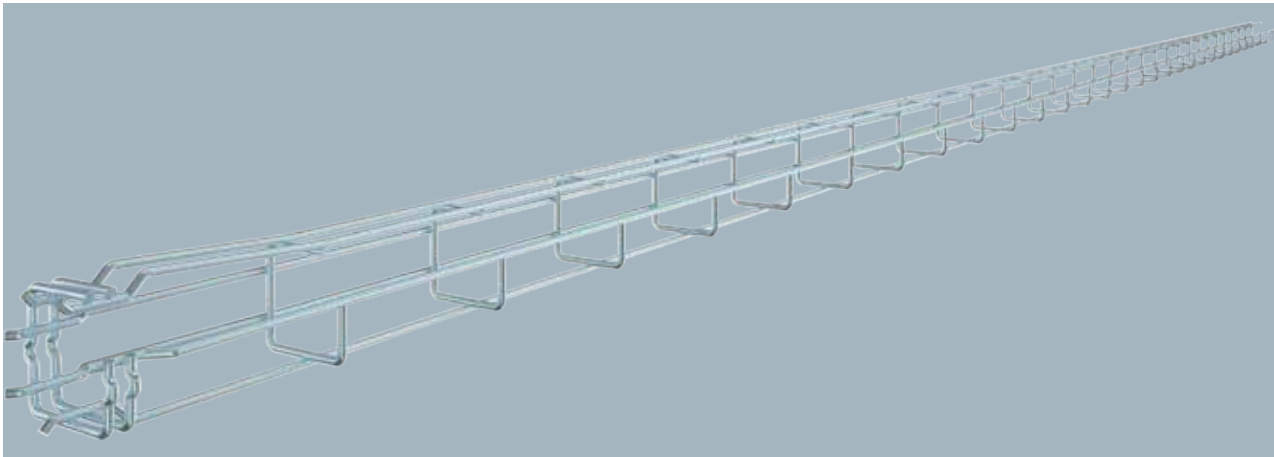


Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
CGR 50 50 A2	0.95	0.6	0.35
CGR 50 100 A2	0.95	0.6	0.35
CGR 50 200 A2	1.1	0.7	0.4
CGR 50 300 A2	1.1	0.7	0.4
CGR 50 400 A2	1.1	0.7	0.4

Load diagram, C mesh cable tray CGR 50 VA

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

G mesh cable tray Magic® 50

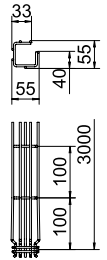


Type	Side height mm	Wire Ø mm	Pack m	Item no.
G-GRM 50 50 G	50	3.9	3	6005535

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.
Magnetic shield insulation 15 dB.

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

Dimensions

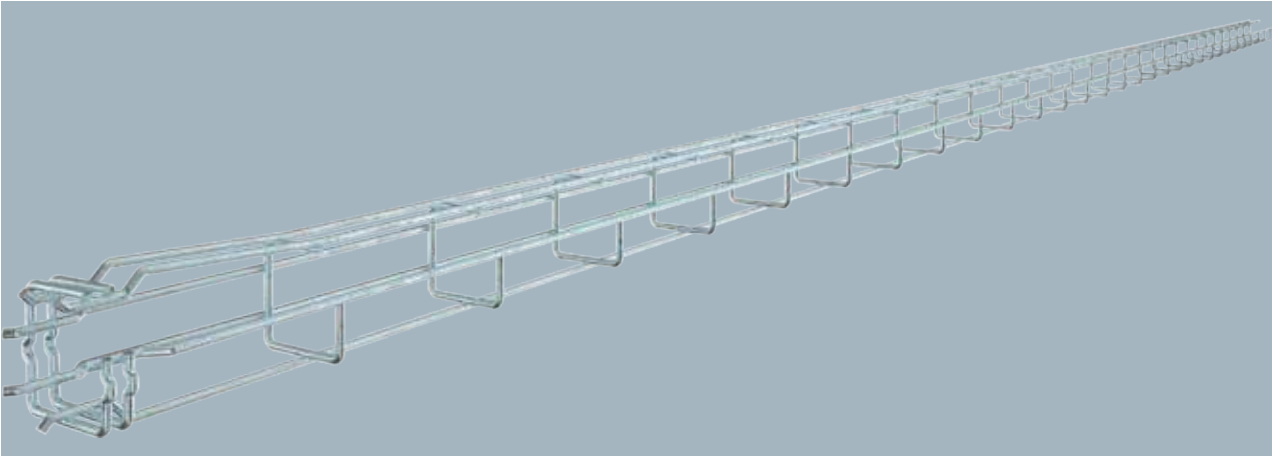


G-GRM 50/50		Support spacing [m]		
		Load [kN/m]		
Fastening variant	Support spacing [m]	1	2	2.5
Wall fastening K12 1818	0.2	0.15	0.1	0.05
Ceiling fastening K12 1818	0.25	0.2	0.10	0.05

Load

St FT

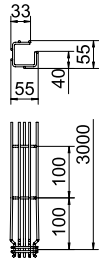
G mesh cable tray Magic® 50



G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.
Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm	Pack m	Item no.
G-GRM 50 50 FT	50	3.9	3	6005520

Dimensions



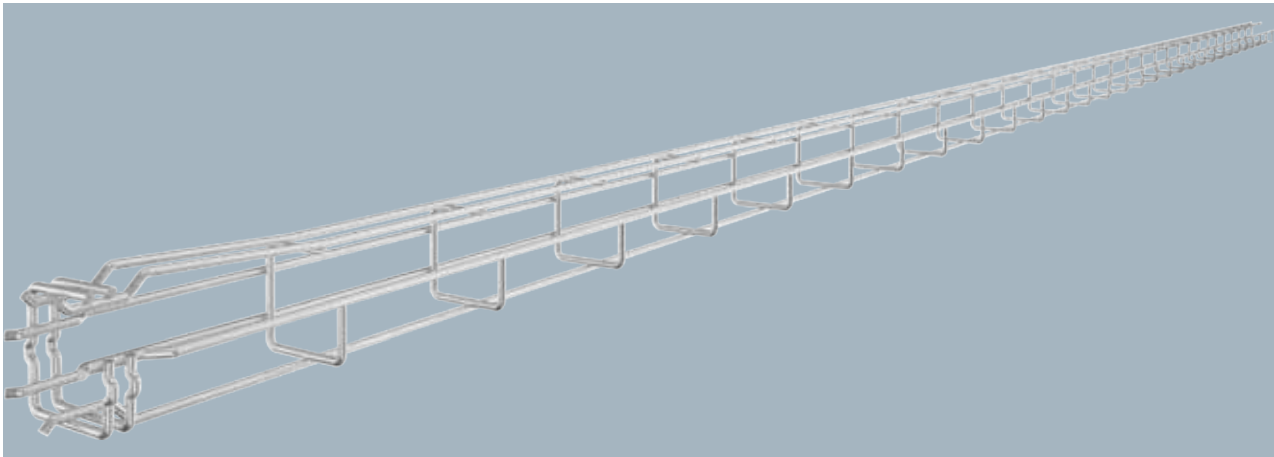
Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 50 50 FT	3000	55	55	33	38

Load

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

G mesh cable tray Magic® 50

A2 2B

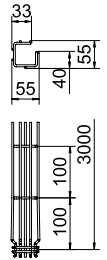


Type	Side height mm	Wire Ø mm	Pack m	Item no.
G-GRM 50 50 A2	50	3.9	3	6005550

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.
Magnetic shield insulation 15 dB.

Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 50 50 A2	3000	55	55	33	38

Dimensions

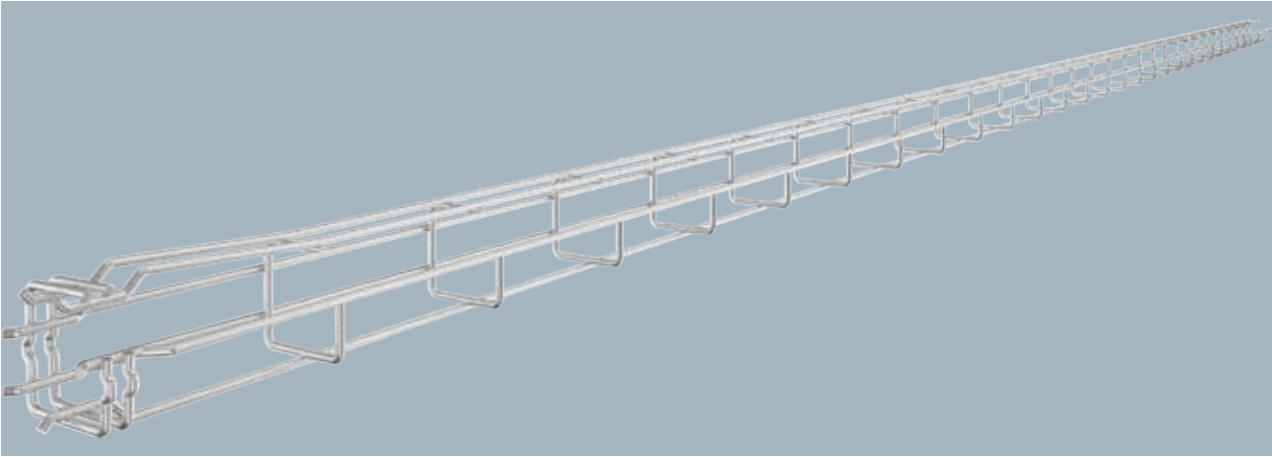


G-GRM 50/50		Support spacing [m]		
		Load [kN/m]		
Fastening variant		1	2	2.5
Wall fastening K12 1818	0.2	0.15	0.1	0.05
Ceiling fastening K12 1818	0.25	0.2	0.10	0.05

Load

VA 2B

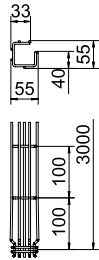
G mesh cable tray Magic® 50



G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.
Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm	Pack m	Item no.
G-GRM 50 50 A4	50	3.9	3	6005565

Dimensions

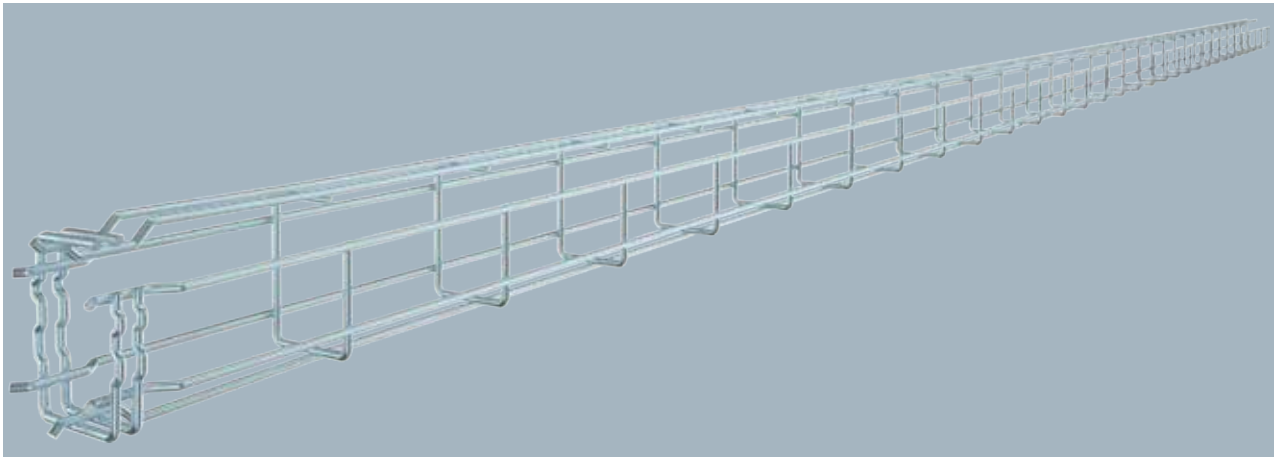


Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 50 50 A4	3000	55	55	33	38

Load

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

G mesh cable tray Magic® 75

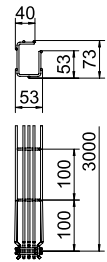


Type	Side height mm	Wire Ø mm	Pack m	Item no.
G-GRM 75 50 G	75	3.9	3	6005538

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.
Magnetic shield insulation 15 dB.

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

Dimensions

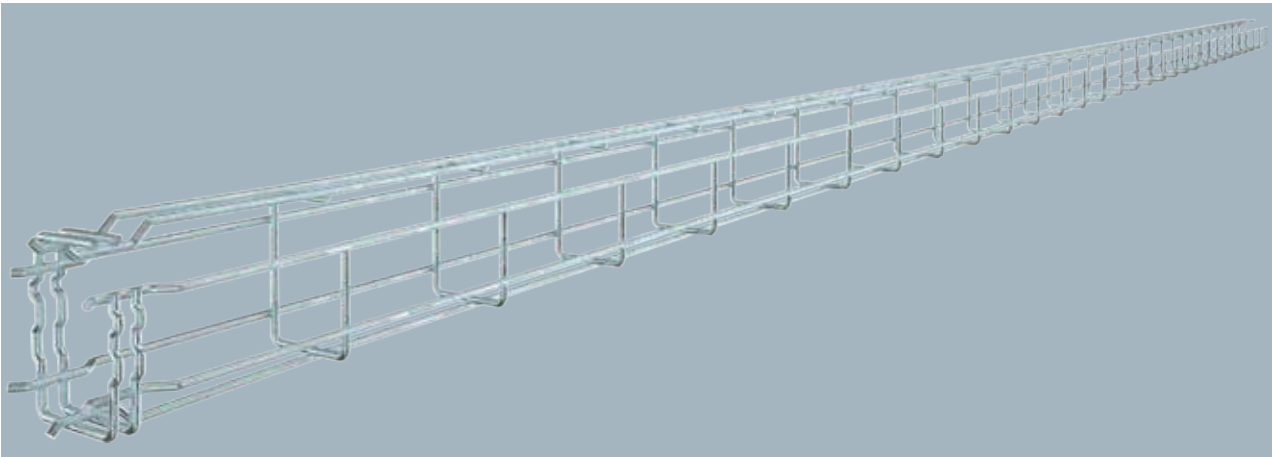


G-GRM 75/50	Fastening variant	Support spacing [m]			
		Load [kN/m]			
		1	1.5	2	2.5
	Wall fastening K12 1818	0.3	0.2	0.15	0.1
	Ceiling fastening K12 1818	0.35	0.2	0.15	0.1

Load

St FT

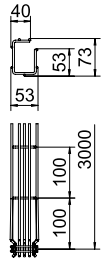
G mesh cable tray Magic® 75



G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.
Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm	Pack m	Item no.
G-GRM 75 50 FT	75	3.9	3	6005523

Dimensions



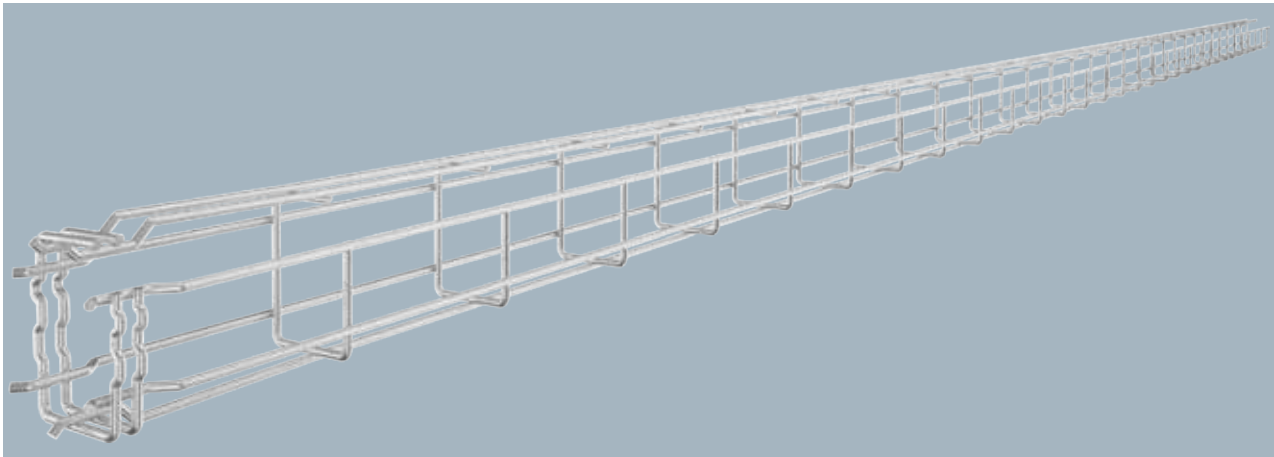
Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 75 50 FT	3000	53	73	38	53

Load

Fastening variant	Support spacing [m]			
	Load [kN/m]			
	1	1.5	2	2.5
Wall fastening K12 1818	0.3	0.2	0.15	0.1
Ceiling fastening K12 1818	0.35	0.2	0.15	0.1

G mesh cable tray Magic® 75

A2 2B

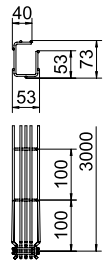


Type	Side height mm	Wire Ø mm	Pack m	Item no.
G-GRM 75 50 A2	75	3.9	3	6005553

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.
Magnetic shield insulation 15 dB.

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

Dimensions

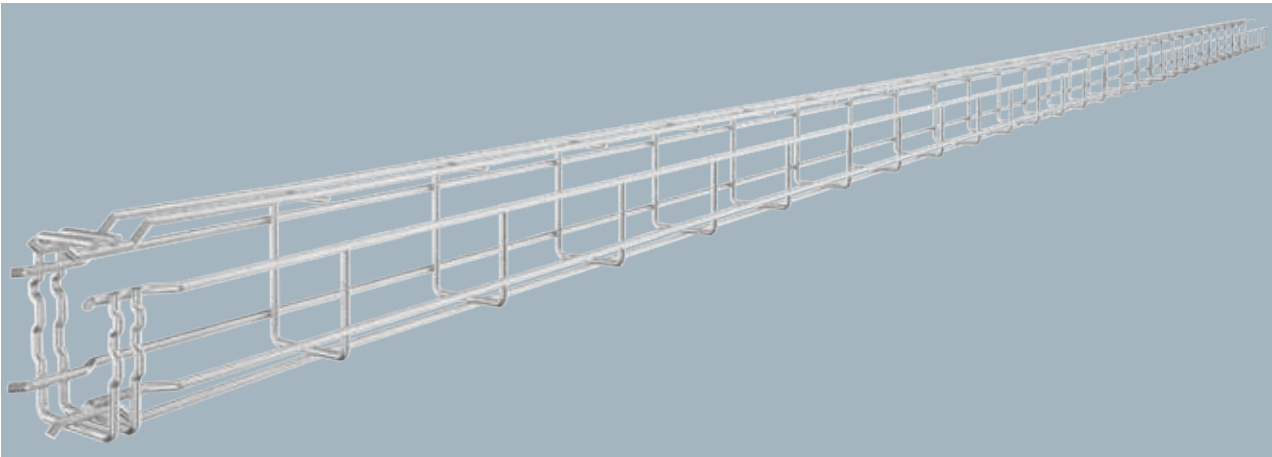


G-GRM 75/50	Support spacing [m]	Load [kN/m]		
		1	2	2.5
Fastening variant				
Bracket MWAG 12-11	-	-	-	-
Wall fastening K12 1818	0.3	0.2	0.15	0.1
Ceiling fastening K12 1818	0.35	0.2	0.15	0.1

Load

VA 2B

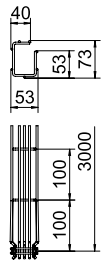
G mesh cable tray Magic® 75



G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.
Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm	Pack m	Item no.
G-GRM 75 50 A4	75	3.9	3	6005568

Dimensions

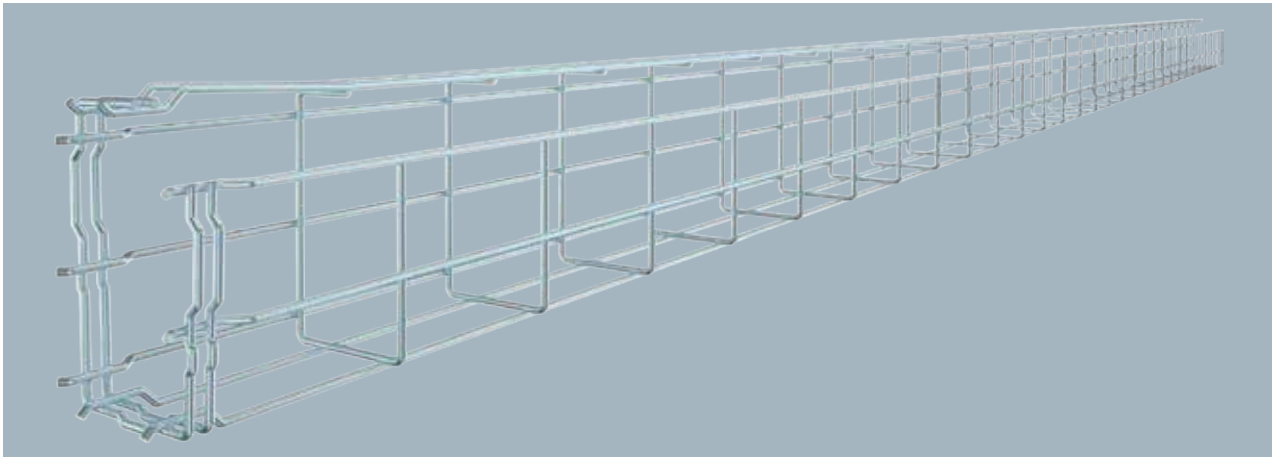


Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 75 50 A4	3000	53	73	38	53

Load

Fastening variant	G-GRM 75/50			
	Support spacing [m]			
	Load [kN/m]			
	1	1.5	2	2.5
Bracket MWAG 12-11	-	-	-	-
Wall fastening K12 1818	0.3	0.2	0.15	0.1
Ceiling fastening K12 1818	0.35	0.2	0.15	0.1

G mesh cable tray Magic® 125

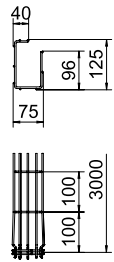


Type	Side height mm	Wire Ø mm	Pack m	Item no.
G-GRM 125 75 G	125	3.9	3	6005541

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.
Magnetic shield insulation 15 dB.

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

Dimensions

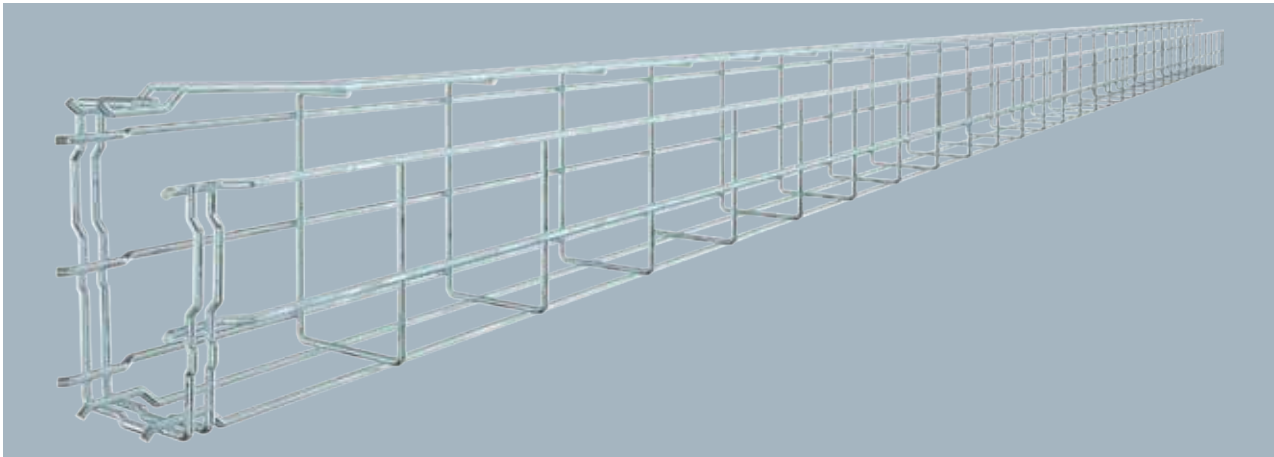


G-GRM 125/75	Support spacing [m]	Load [kN/m]		
		1	2	2.5
Fastening variant				
Bracket MWAG 12-11	0.6	0.35	0.3	0.2
Wall fastening K12 1818	0.25	0.25	0.2	0.15
Ceiling fastening K12 1818	0.3	0.25	0.2	0.15

Load

St FT

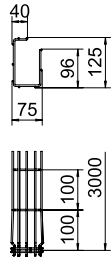
G mesh cable tray Magic® 125



G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.
Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm	Pack m	Item no.
G-GRM 125 75 FT	125	3.9	3	6005526

Dimensions



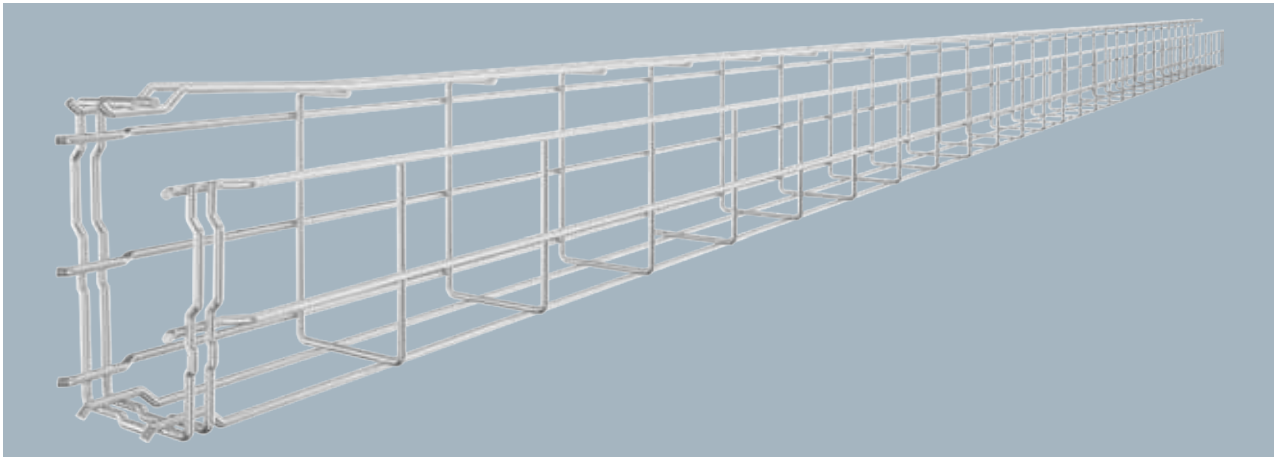
Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 125 75 FT	3000	75	125	38	96

Load

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

G mesh cable tray Magic® 125

A2 2B

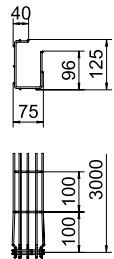


Type	Side height mm	Wire Ø mm	Pack m	Item no.
G-GRM 125 75 A2	125	3.9	3	6005556

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.
Magnetic shield insulation 15 dB.

Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 125 75 A2	3000	75	125	38	96

Dimensions

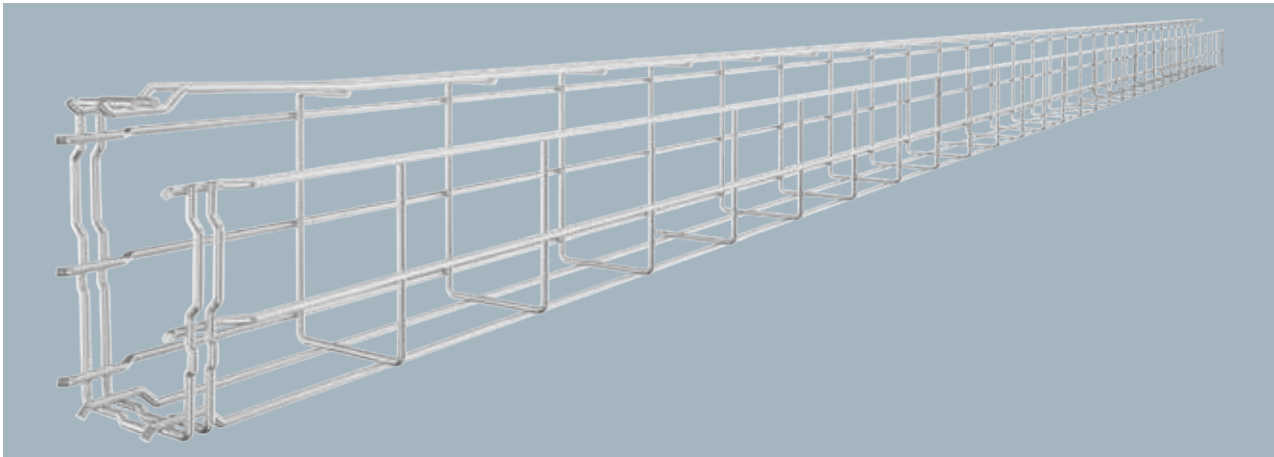


G-GRM 125/75	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Bracket MWAG 12-11	0.6	0.35	0.3	0.2
Wall fastening K12 1818	0.25	0.25	0.2	0.15
Ceiling fastening K12 1818	0.3	0.25	0.2	0.15

Load

VA 2B

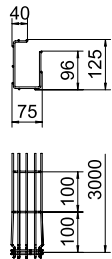
G mesh cable tray Magic® 125



G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.
Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm	Pack m	Item no.
G-GRM 125 75 A4	125	3.9	3	6005571

Dimensions

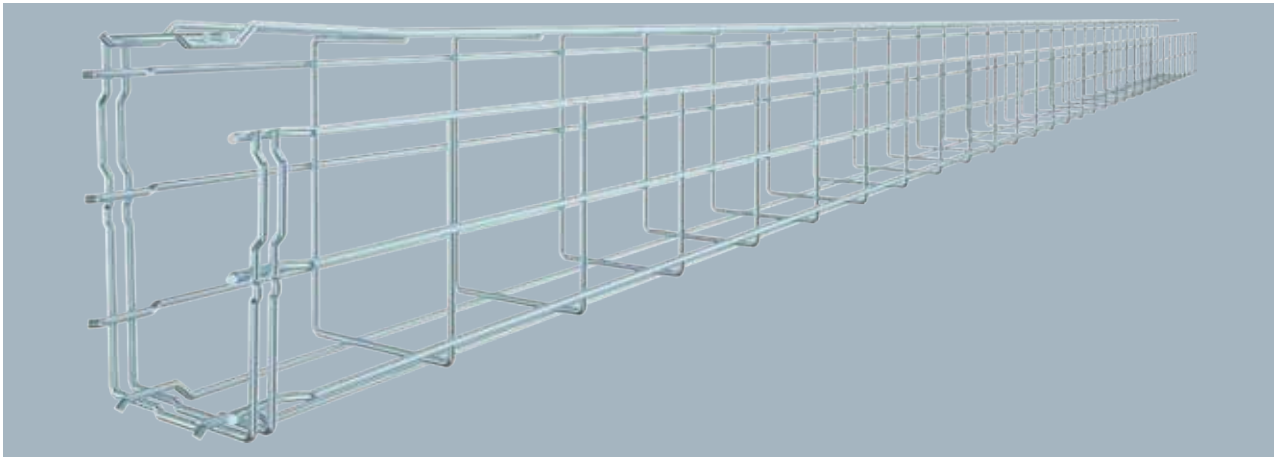


Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 125 75 A4	3000	75	125	38	96

Load

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

G mesh cable tray Magic® 150

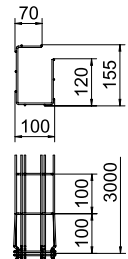


Type	Side height mm	Wire Ø mm	Pack m	Item no.
G-GRM 150 100 G	150	3.9	3	6005544

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.
Magnetic shield insulation 15 dB.

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

Dimensions

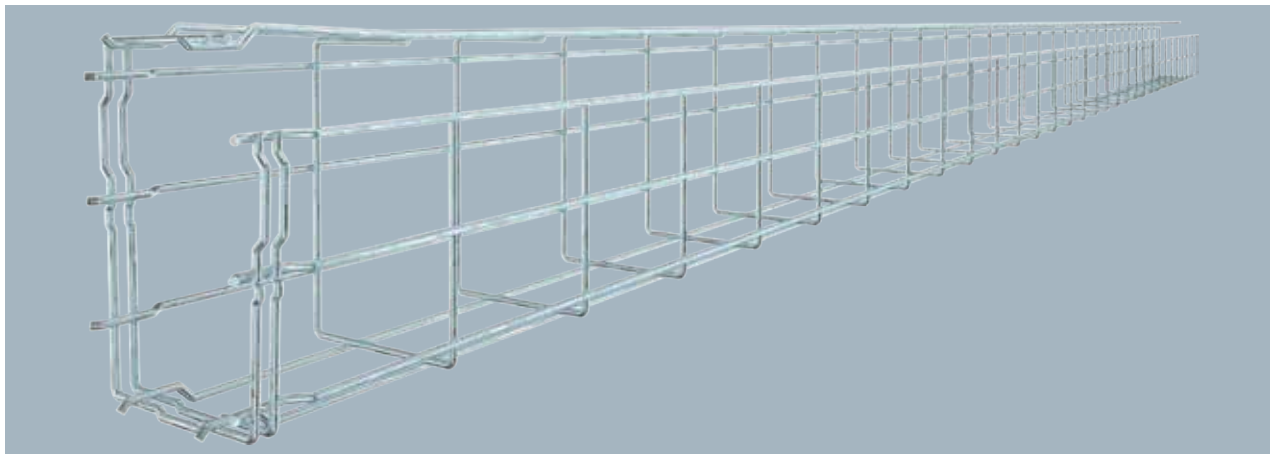


G-GRM 150/100	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Bracket MWAG 12-11	0.6	0.5	0.35	0.3
Wall fastening K12 1818	0.25	0.2	0.15	0.1
Ceiling fastening K12 1818	0.25	0.25	0.15	0.1

Load

St FT

G mesh cable tray Magic® 150

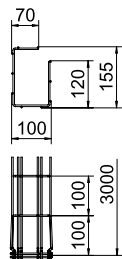


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

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

Dimensions

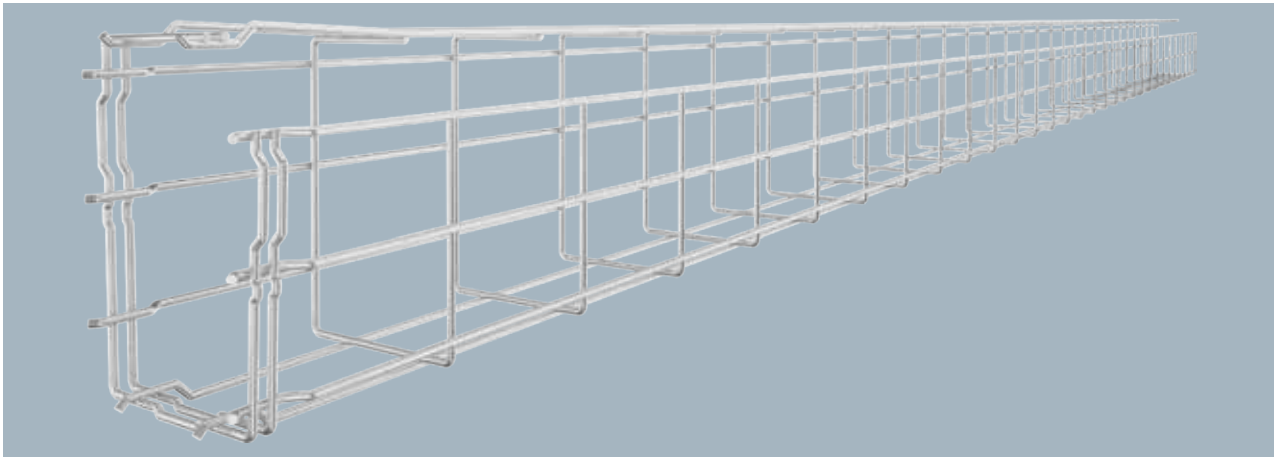


Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 150 100 FT	3000	100	155	68	120

Load

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

G mesh cable tray Magic® 150

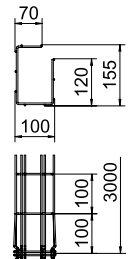


Type	Side height mm	Wire Ø mm	Pack m	Item no.
G-GRM 150 100 A2	150	3.9	3	6005559

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.
Magnetic shield insulation 15 dB.

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

Dimensions

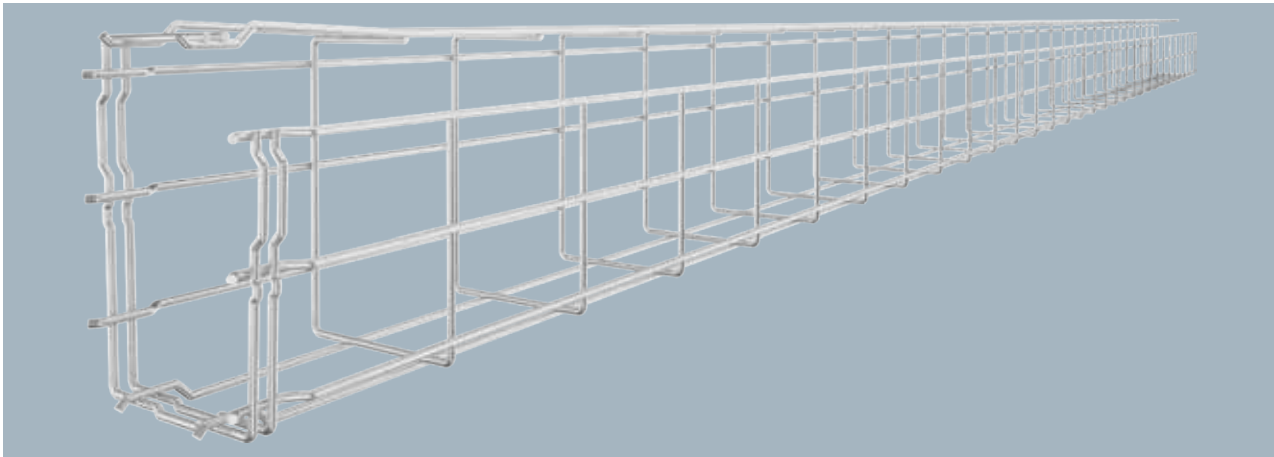


G-GRM 150/100	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Bracket MWAG 12-11	0.6	0.5	0.35	0.3
Wall fastening K12 1818	0.25	0.2	0.15	0.1
Ceiling fastening K12 1818	0.25	0.25	0.15	0.1

Load

VA 2B

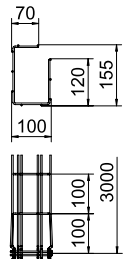
G mesh cable tray Magic® 150



G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.
Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm	Pack m	Item no.
G-GRM 150 100 A4	150	3.9	3	6005574

Dimensions

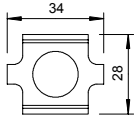
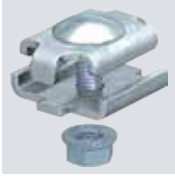


Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 150 100 A4	3000	100	155	68	120

Load

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

Joint connector GSV 34



Type

GSV 34 G

Pack	Item no.
Piece	
20	6016596

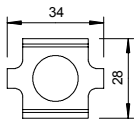
Screwed version of joint connector for mesh cable trays.

Figure: Positioning and quantity of mesh cable tray connectors.

- 50–150 mm = 2 units
- 200–300 mm = 3 units
- 400–450 mm = 4 units
- 500–600 mm = 5 units

Including FRS M6 x 20 bolt with flange nut.

Joint connector GSV 34



Type

GSV 34 FT

Pack	Item no.
Piece	
20	6016634

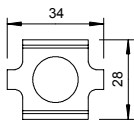
Screwed version of joint connector for mesh cable trays.

Figure: Positioning and quantity of mesh cable tray connectors.

- 50–150 mm = 2 units
- 200–300 mm = 3 units
- 400–450 mm = 4 units
- 500–600 mm = 5 units

Including FRS M6 x 20 bolt with flange nut.

Joint connector GSV 34



Type

GSV 34 A2

GSV 34 A4

Pack	Item no.
Piece	
20	6016642
20	6016648

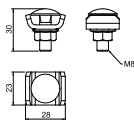
Screwed version of joint connector for mesh cable trays.

Figure: Positioning and quantity of mesh cable tray connectors.

- 50–150 mm = 2 units
- 200–300 mm = 3 units
- 400–450 mm = 4 units
- 500–600 mm = 5 units

Including screw of type FRS M6 x 20.

GUV 6 joint connector



Type

GUV 6 FT

Pack	Item no.
Piece	
20	6016573

Joint connector for mesh cable tray, type SGR.

Figure: Positioning and quantity of mesh cable tray connectors.

- 50–150 mm = 2 units
- 200–300 mm = 3 units
- 400–450 mm = 4 units
- 500–600 mm = 5 units

Including FRS M8 x 25 bolt with flange nut.

A2 2B



GUV 6 joint connector

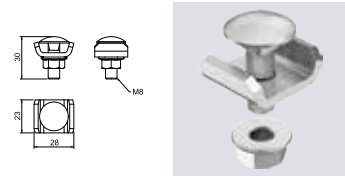
Type	Pack Piece	Item no.
GUV 6 A2	20	6016574

Joint connector for mesh cable tray, type SGR.

Figure: Positioning and quantity of mesh cable tray connectors.

- 50–150 mm = 2 units
- 200–300 mm = 3 units
- 400–450 mm = 4 units
- 500–600 mm = 5 units

Including FRS M8 x 20 bolt with flange nut.



St G



GUV 6 joint connector

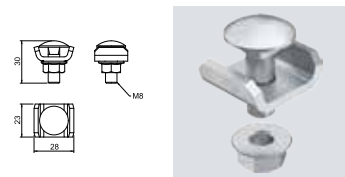
Type	Pack Piece	Item no.
GUV 6 G	20	6016572

Including FRS M8 x 25 bolt with flange nut.

Joint connector for mesh cable tray, type SGR.

Figure: Positioning and quantity of mesh cable tray connectors.

- 50–150 mm = 2 units
- 200–300 mm = 3 units
- 400–450 mm = 4 units
- 500–600 mm = 5 units



St FS DD



GRV 245 mesh cable tray connector, long

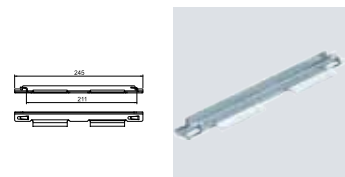
Type	Width mm	Pack Piece	Item no.
GRV 245 FS	30	20	6016680
GRV 245 DD	30	20	6016684

Long mesh cable tray connectors for screwless straight connection of mesh cable trays.

Two straight connectors, type GRV 245, are used for each connection point.

Can be used from a mesh cable tray width of 100 mm.

The FS variant is used to connect electrogalvanised mesh cable trays, the DD variant to connect hot/hot-dip galvanised mesh cable trays and the VA variant to connect stainless steel mesh cable trays.



VA 2B



GRV 245 mesh cable tray connector, long

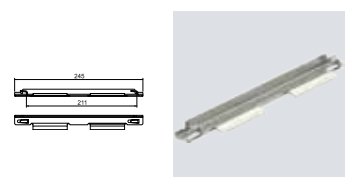
Type	Width mm	Pack Piece	Item no.
GRV 245 A4	30	20	6016688

Long mesh cable tray connectors for screwless straight connection of mesh cable trays.

Two straight connectors, type GRV 245, are used for each connection point.

Can be used from a mesh cable tray width of 100 mm.

The FS variant is used to connect electrogalvanised mesh cable trays, the DD variant to connect hot/hot-dip galvanised mesh cable trays and the VA variant to connect stainless steel mesh cable trays.



K 11/262 side connector



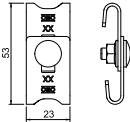
Type

K 11 262 FT

Pack	Item no.
Piece	
25	6015107

Screwed version of joint connector for mesh cable trays.
Including screw of type FRS M6 x 20.

GEV 36 corner connector



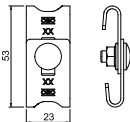
Type

GEV 36 G

Pack	Item no.
Piece	
20	6016715

Including FRS M6 x 12 bolt with flange nut.
Corner connector for the creation of mesh cable tray bend elements.

GEV 36 corner connector



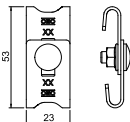
Type

GEV 36 FT

Pack	Item no.
Piece	
20	6016723

Including FRS M6 x 12 bolt with flange nut.
Corner connector for the creation of mesh cable tray bend elements.

GEV 36 corner connector



Type

GEV 36 A2

GEV 36 A4

Pack	Item no.
Piece	
20	6016731
10	6016764

Including FRS M6 x 12 bolt with flange nut.
Corner connector for the creation of mesh cable tray bend elements.

Side connector K 11/262



Type

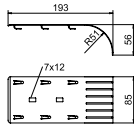
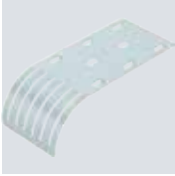
K 11 262 A2

Pack	Item no.
Piece	
25	6016367

Screwed version of joint connector for mesh cable trays.
Including screw of type FRS M6 x 20.

Drop-out plate

St FS FT



Type

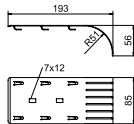
KAB GR FS
KAB GR FT

Pack Piece	Item no.
10	6220139
10	6220142

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

Drop-out plate

A2 2B



Type

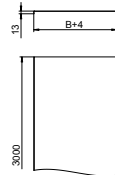
KAB GR A2

Pack Piece	Item no.
10	6220145

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

Unperforated cover

St FS DD



Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Item no.
DRLU 050 FS	50	1.00	3000	3	6052056
DRLU 100 FS	100	1.00	3000	3	6052103
DRLU 150 FS	150	1.00	3000	3	6052153
DRLU 200 FS	200	1.00	3000	3	6052210
DRLU 300 FS	300	1.00	3000	3	6052307
DRLU 400 FS	400	1.00	3000	3	6052405
DRLU 500 FS	500	1.50	3000	3	6052512
DRLU 600 FS	600	1.50	3000	3	6052609
DRLU 050 DD	50	1.00	3000	3	6052640
DRLU 100 DD	100	1.00	3000	3	6052643
DRLU 150 DD	150	1.00	3000	3	6052647
DRLU 200 DD	200	1.00	3000	3	6052650
DRLU 300 DD	300	1.00	3000	3	6052656
DRLU 400 DD	400	1.00	3000	3	6052662
DRLU 500 DD	500	1.50	3000	3	6052668
DRLU 600 DD	600	1.50	3000	3	6052674

Cover for cable trays and mesh cable trays.

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

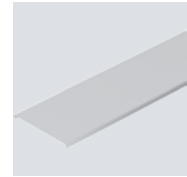
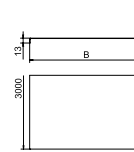
Transverse bead from 500 mm width.

A2 A4 2B



Unperforated cover

Type	Metal			Pack m	Item no.
	Dim. B mm	thick- ness mm	Length mm		
DRLU 050 A2	50	1.00	3000	3	6052821
DRLU 100 A2	100	1.00	3000	3	6052824
DRLU 200 A2	200	1.00	3000	3	6052831
DRLU 300 A2	300	1.00	3000	3	6052834
DRLU 400 A2	400	1.00	3000	3	6052837
DRLU 500 A2	500	1.50	3000	3	6052841
DRLU 600 A2	600	1.50	3000	3	6052844
DRLU 100 A4	100	1.00	3000	3	6052991
DRLU 200 A4	200	1.00	3000	3	6052993
DRLU 300 A4	300	1.00	3000	3	6052994
DRLU 400 A4	400	1.00	3000	3	6052995
DRLU 500 A4	500	1.25	3000	3	6052996
DRLU 600 A4	600	1.25	3000	3	6052998



Cover for cable trays and mesh cable trays.

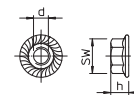
When using covers outdoors, additional measures against the influence of wind must be taken.

Transverse bead from 500 mm width.

A2 2B

Type	Dim. d mm	Dim. h mm	Dim. SW mm	Resist- ance grade	Pack Piece	Item no.
KM M6 A2	6	6	10	A2-70	100	6408966

Nut with pressed washer.



Combination nut A2

St F

Type	Dimen- sion mm	Dim. L mm	Dim. d mm	Dim. D mm	Resist- ance grade	Pack Piece	Item no.
SKS 10x60 F	M 10x60	60	10	17	8.8	20	6408516

Hexagonal bolt for universal fastening of construction components. With hexagonal nut and 2 washers.

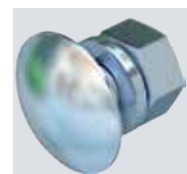
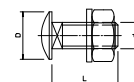


Hexagonal bolt M10

St F

Type	Dimen- sion mm	Dim. L mm	Dim. d mm	Dim. D mm	Resist- ance grade	Pack Piece	Item no.
FRS 10x25 TPS F	M 10x25	25	10	18	5.6	50	6407536

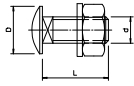
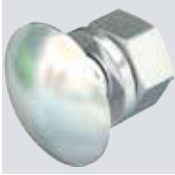
Truss-head bolt with square neck. With washer and hexagonal nut.



Truss-head bolt with nut and washer

Truss-head bolt with nut and washer

A2 2B



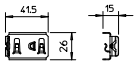
Type	Dimen- sion mm	Dim. L mm	Dim. D mm	Dim. d mm	Resist- ance grade	Pack Piece	Item no.
FRS 10x25 TPS A2	M 10x25	25	18	10	A2-70	50	6407537

Truss-head bolt with square neck. With washer and hexagonal nut.
The truss-head bolt can be used in combination with hot-dip and double-dip galvanised articles.

Hold-down clamps

Clamping piece for separating retainer fastening in GRM

A2 2B

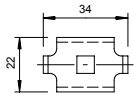


Type	Pack Piece	Item no.
KS GR A2	30	6062282

Clamping piece for fastening separating retainer in mesh cable trays.

Clamping piece GKS 34

St G

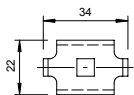


Type	Pack Piece	Item no.
GKS 34 G	20	6016855

Including FRS M6 x 20 bolt with flange nut.
Clamp for fixing mesh cable trays to wall or support brackets.

GKS 34 hold-down clamp

St FT

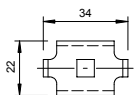


Type	Pack Piece	Item no.
GKS 34 FT	20	6016820

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

GKS 34 hold-down clamp

A2 VA 2B



Type	Pack Piece	Item no.
GKS 34 A2	20	6016839
GKS 34 A4	10	6016859

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

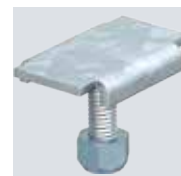
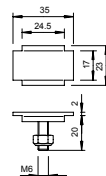
St FT



KS 23/35 hold-down clamp

Type	Pack Piece	Item no.
KS 23 35 FT	100	6015174

Including M6 locknut.
Clamp for mounting bracket, type MW 45 and MW 90.



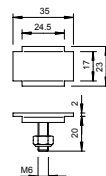
A2 2B



KS 23/35 hold-down clamp

Type	Pack Piece	Item no.
KS 23 35 A2	20	6016529

Including M6 locknut.
Clamp for mounting bracket, type MW 45 and MW 90.



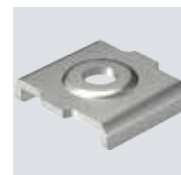
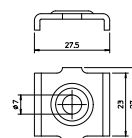
St G



GKB 34 hold-down clamp

Type	Pack Piece	Item no.
GKB 34 G	20	6016674

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



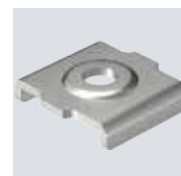
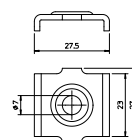
A2 2B



GKB 34 hold-down clamp

Type	Pack Piece	Item no.
GKB 34 A2	20	6016676

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



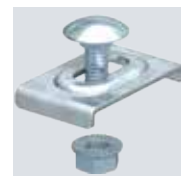
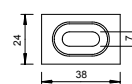
St G



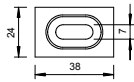
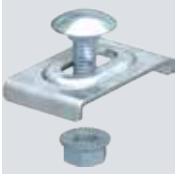
GKT 38 hold-down clamp

Type	Pack Piece	Item no.
GKT 38 G	20	6017037

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



GKT 38 hold-down clamp



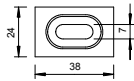
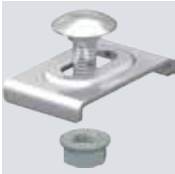
Type

GKT 38 FT

Pack Piece	Item no.
20	6017061

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

Clamping piece GKT 38



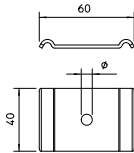
Type

GKT 38 A2
GKT 38 A4

Pack Piece	Item no.
20	6017045
10	6017092

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening separating retainer in mesh cable trays.

GKS 50 hold-down clamp



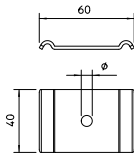
Type

Type	Hole Ø mm
GKS 50 07 FS	7
GKS 50 11 FS	11
GKS 50 07 FT	7
GKS 50 11 FT	11

Pack Piece	Item no.
50	6015263
50	6015276
50	6015271
50	6015278

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

Hold-down clamp GKS 50



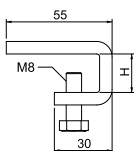
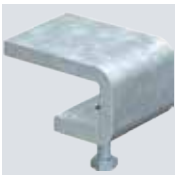
Type

Type	Hole Ø mm
GKS 50 11 A4	11

Pack Piece	Item no.
20	6015280

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

Beam clamp



Type

Type	Height mm
KL 20 FT	20
KL 30 FT	30

Pack Piece	Item no.
10	6003850
10	6003869

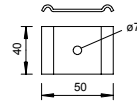
When selecting the beam clamp, please take the flange thickness of the steel girder into account.
Beam clamp for fastening the mesh bracket, type GW 40 80 to steel girders.

VA 2B



Type	Hole Ø mm	Pack Piece	Item no.
GKS 50 07 A4	7	50	6015310

Use on mesh cable trays with 50 x 100 mm grid only.
Hold-down clamp for fastening mesh cable trays. Including lens head screw.



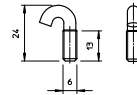
Hold-down clamp

A2 2B



Type	Thread	Pack Piece	Item no.
HS M6x13 A2	M6	100	1154990

Hook screw for fastening cable tracks on the bracket.



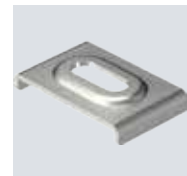
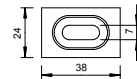
HS M6 hook screw

A2 2B



Type	Pack Piece	Item no.
GKB 38 A2	20	6017018

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



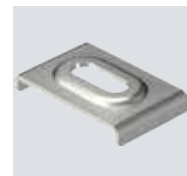
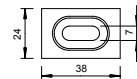
Hold-down clamp GKB 38

St G



Type	Pack Piece	Item no.
GKB 38 G	20	6017020

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



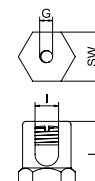
GKB 38 hold-down clamp

CuZn
37



Type	Dim. L mm	Dim. I mm	Cross- section mm ²	Thread metric	Pack Piece	Item no.
EKL 25 M6	22	8	50	6	50	6404006
EKL 35 M6	26	10	75	6	50	6404014

Earthing terminal for fastening the equipotential bonding wire to the cable support system.
Suitable for conductor cross sections of 4–50 mm².

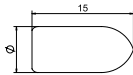


Earthing terminal with fastening thread

End caps

Protective cap

PVC

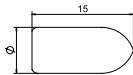


Type	Colour	Pack Piece	Item no.
GR KS 3.9 OR	Pure orange	500	6003750
GR KS 4.8 OR	Pure orange	500	6003754

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

End cap

PVC



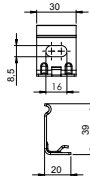
Type	Colour	Pack Piece	Item no.
SGR KS OR	Pure orange	500	6003758

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

Wall and central fastener

Wall holder for GRM 35x50 mesh cable tray

St FT

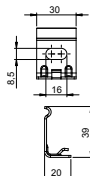


Type	Side height mm	Width mm	Pack Piece	Item no.
WH GRM35 FT	35	50	10	6016443

Wall holder for wall fastening of mesh cable trays, type GRM 35 50.

Wall holder for GRM 35x50 mesh cable tray

VA 2B



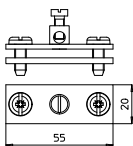
Type	Side height mm	Width mm	Pack Piece	Item no.
WH GRM35 A4	35	50	10	6016445

Wall holder for fastening of mesh cable trays GRM 35 50.

Equipotential bonding and earthing

Earthing terminal for cables and flat conductors

St G



Type	Shipping box Piece	Pack Piece	Item no.
939	150	25	5043107

- For cables to 16 mm² and flat conductors
- Fit: cable to 16 mm² x max. FL 30
- With riveted brass connection terminal and one cylinder bolt, M5 x 12, with two cylinder bolts, M6 x 16

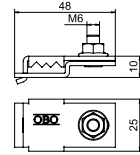
St FS



Grounding clamp

Type	Pack Piece	Item no.
VEK-GRM 3.9 FS	25	6016694
VEK-GRM 4.8 FS	25	6016696

The connection and earthing terminal is used to reduce electrical resistance and therefore improves the electric conductivity in GRM mesh cable systems in the area of the joint. This allows fulfilment of the high demands in terms of the transition resistance according to, for example, NEMA and CSA. Furthermore, the connection and earthing terminal is compulsory when used as a protective conductor in a mesh cable tray system (national regulations have to be followed when creating such a system).



Mounting elements, junction box

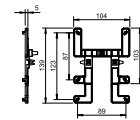
PC



Fastening element for mesh cable tray

Type	Pack Piece	Item no.
BE TS GR	10	2007833

The fastening element BE TS GR can be used to attach OBO junction boxes, type T60 and T100, to mesh cable trays quickly and in a few actions. This keeps the junction box securely in position. However, it can be quickly dismantled as necessary.



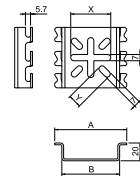
St FT



Mounting plate for mesh cable tray

Type	Pack Piece	Item no.
MPG 65 FT	30	6006486
MPG 90 FT	30	6006487

Mounting plate for screwless wall fastening of mesh cable trays.



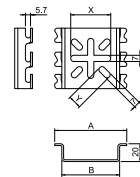
VA 2B



Mounting plate for mesh cable tray

Type	Pack Piece	Item no.
MPG 65 A4	30	6006488
MPG 90 A4	30	6006489

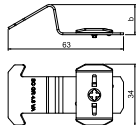
Accessories can be fastened to the mounting plate. In addition, the plate can be used for wall brackets.
Mounting plate for screwless wall fastening of mesh cable trays.



Fastening clip

Hold-down clip

A2 2B



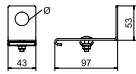
Type	Dim. b mm	Version	Pack Piece	Item no.
BC SGR A2	19	For wire Ø 6.0 mm	20	6016668

Hold-down clip for the screwless mounting of mesh cable trays onto MS profile rails with a slot width of 22 mm.

Side holder

Side holder for cable gland

St FS



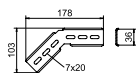
Type	Hole Ø mm	Pack Piece	Item no.
SH KAB 20 FS	20	10	6015425
SH KAB 25 FS	25	10	6015433

Side holder with punched hole for accepting cable glands.

Mounting bracket

45° mounting bracket MW 45 SL10

St FT



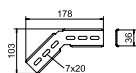
Type	Pack Piece	Item no.
MW 45 SL10 FT	20	6017320

Each with two clamps of type KS 23 35.

45° installation profile, vertical, for C mesh cable tray and GR-Magic® mesh cable tray with a side height of 55 mm.

45° mounting angle MW 45 SL10

A2 2B



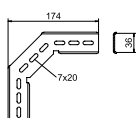
Type	Pack Piece	Item no.
MW 45 SL10 A2	20	6017339

Each with two clamps of type KS 23 35.

45° installation profile, vertical, for C mesh cable tray and GR-Magic® mesh cable tray with a side height of 55 mm.

MW 90 SL 90° mounting bracket

St FT



Type	Pack Piece	Item no.
MW 90 SL17 FT	20	6017347
MW 90 SL23 FT	20	6017355

Each with two clamps of type KS 23/35.

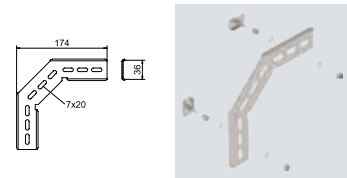
90° installation profile, vertical, for C mesh cable tray and GR-Magic® mesh cable tray with a side height of 55 mm.

A2 2B



MW 90 SL 90° mounting bracket

Type	Pack Piece	Item no.
MW 90 SL17 A2	20	6016278
MW 90 SL23 A2	20	6016308



Each with two clamps of type KS 23/35.
90° installation profile, vertical, for C mesh cable tray and GR-Magic® mesh cable tray with a side height of 55 mm.

Labelling

Identification clip



Type	KS GR OR	KS GR ZGB	KS GR LBL	KS GR SGN
Colour	Pastel orange	Zinc yellow	Light blue	Signal green
Pack Piece	10	10	10	10
Item no.	6017712	6017713	6017714	6017715
	PA Polyamide			

The identification clip is fastened to the mesh cable tray without screws simply by attaching it.

Identification clip for screwless fastening on mesh cable trays.

HOLDERS AND FASTENINGS

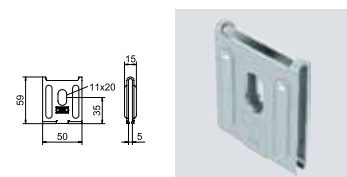
Wall clamp/central hanger

St FS



Type	Pack Piece	Item no.
K 12 1818 FS	25	6437109

As wall fastening up to max. mesh cable tray width 200 mm.
As centre suspension up to max. mesh cable tray width 200 mm.
As a pendulum suspension from a width of 300 mm.
Wall clamp and central hanger for mesh cable trays.



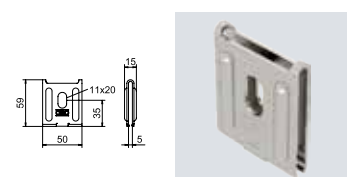
A2 2B



Wall clamp/central hanger

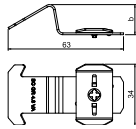
Type	Pack Piece	Item no.
K12 1818 A2	25	6016421

As wall fastening up to max. mesh cable tray width 200 mm.
As centre suspension up to max. mesh cable tray width 200 mm.
As a pendulum suspension from a width of 300 mm.
Wall clamp and central hanger for mesh cable trays.



Hold down clip

A2 2B

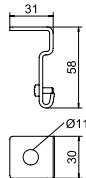


Type	Dim. b mm	Version	Pack Piece	Item no.
BC GR 4.8 A2	17	For wire thicknesses 3.9 and 4.8 mm	20	6016665

Hold-down clip for the screwless mounting of mesh cable trays onto MS profile rails with a slot width of 22 mm.

Side holder

St FS FT

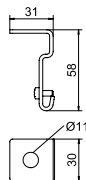


Type	Pack Piece	Item no.
SH M10 FS	50	6015336
SH M10 FT	50	6015338

Side holder for suspension of mesh cable trays.

Side holder

VA 2B

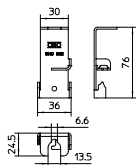


Type	Pack Piece	Item no.
SH M10 A4	20	6015340

Side holder for suspension of mesh cable trays.

Side holder, universal

St FS DD

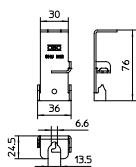


Type	Break load kN	Pack Piece	Item no.
SHU M12 FS	0.5	50	6015322
SHU M12 DD	0.5	50	6015324

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

Side holder, universal

A4 2B



Type	Break load kN	Pack Piece	Item no.
SHU M12 A4	0.5	50	6015328

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

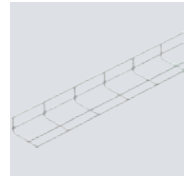
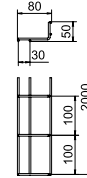
St FT



Mesh angle

Type	Length mm	Wire		Pack m	Item no.
		Ø mm			
GW 40 80 FT	2000	4.4		2	6003818

Mesh angle for routing cables in steel girders.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.



Hook rails for G mesh cable tray

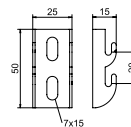
St FS



Hook rail for G mesh cable tray

Type	Length mm	Width mm	Side height mm	Pack Piece	Item no.

Hook rail for wall mounting of G mesh cable trays



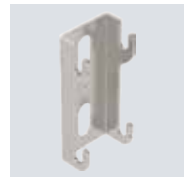
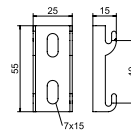
A2 2B



Hook rail for G mesh cable tray

Type	Length mm	Width mm	Side height mm	Pack Piece	Item no.

Hook rail for wall mounting of G mesh cable trays



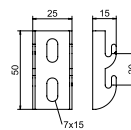
St FS



Hook rail for G mesh cable tray

Type	Length mm	Width mm	Side height mm	Pack Piece	Item no.

Hook rail for wall mounting of G mesh cable trays



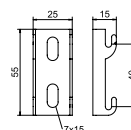
A2 2B



Hook rail for G mesh cable tray

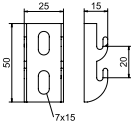
Type	Length mm	Width mm	Side height mm	Pack Piece	Item no.

Hook rail for wall mounting of G mesh cable trays



Hook rail for G mesh cable tray

St FS

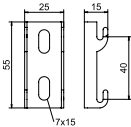


Type	Length mm	Width mm	Side height mm	Pack Piece	Item no.
G-GRM-R125 FS	105	25	15	25	6005612

Hook rail for wall mounting of G mesh cable trays

Hook rail for G mesh cable tray

A2 2B

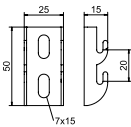


Type	Length mm	Width mm	Side height mm	Pack Piece	Item no.
G-GRM-R125 A2	105	25	15	25	6005642

Hook rail for wall mounting of G mesh cable trays

Hook rail for G mesh cable tray

St FS

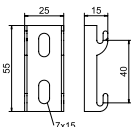


Type	Length mm	Width mm	Side height mm	Pack Piece	Item no.
G-GRM-R150 FS	110	25	15	25	6005615

Hook rail for wall mounting of G mesh cable trays

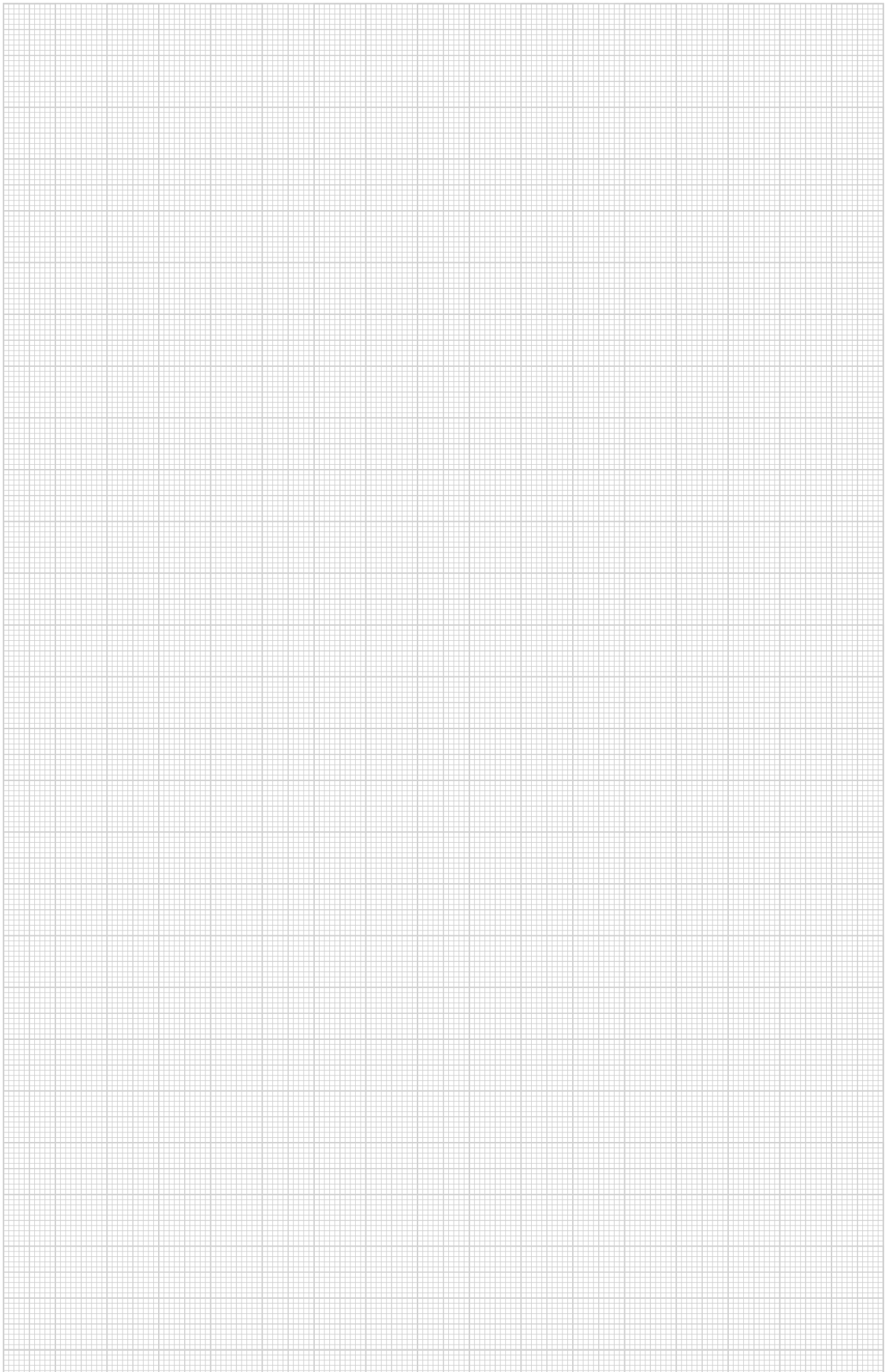
Hook rail for G mesh cable tray

A2 2B

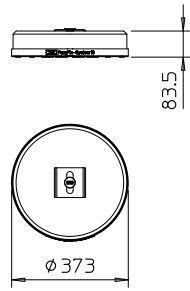


Type	Length mm	Width mm	Side height mm	Pack Piece	Item no.
G-GRM-R150 A2	110	25	15	25	6005645

Hook rail for wall mounting of G mesh cable trays



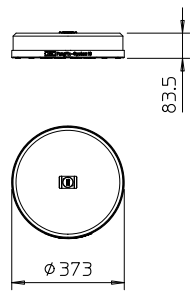
Stand - TrayFix set 16 L



Type	From tray width mm	Pack Piece	Item no.
TrayFix-16-L	100	1	5403098

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

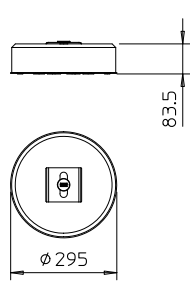
Stand – TrayFix set 16 S



Type	From tray width mm	Pack Piece	Item no.
TrayFix-16-S	100	1	5403099

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

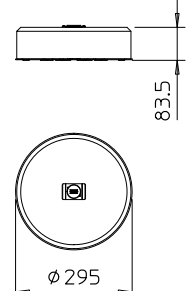
Stand – TrayFix set 10 L



Type	From tray width mm	Pack Piece	Item no.
TrayFix-10-L	100	1	5403101

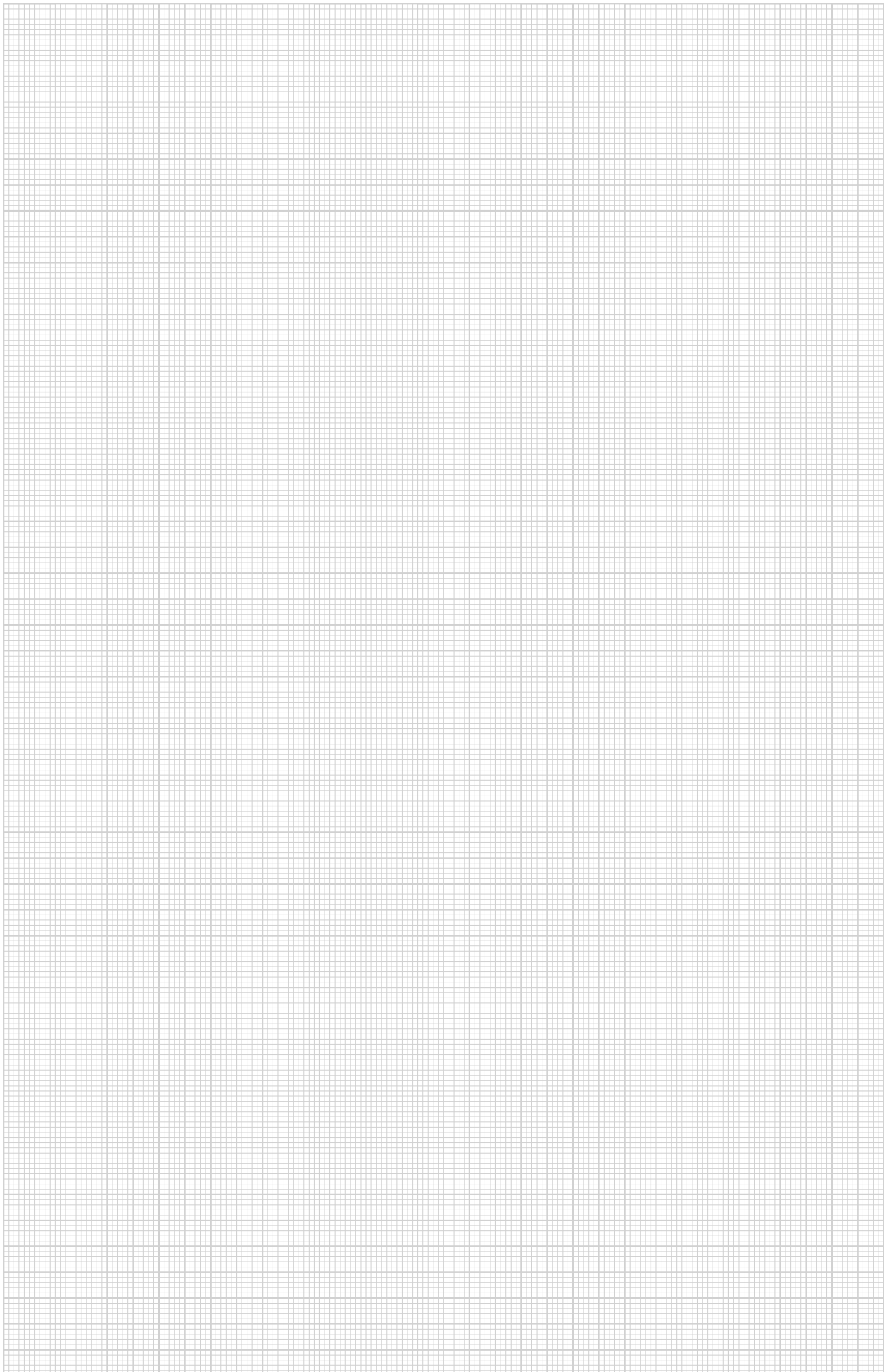
- Fastening system for the mounting of cable trays and mesh cable trays with the FangFix block, e.g. for cable routing on flat roofs
- Matches OBO cable tray systems MKSM and SKSM
- Matches OBO mesh cable tray systems with a minimum width of 100 mm
- Set consisting of TrayFix fastening and concrete block incl. base for FangFix system 10 kg

Stand – TrayFix set 10 S

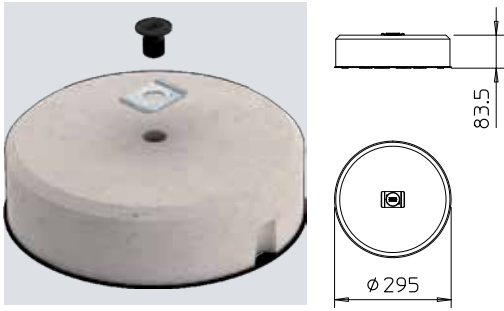


Type	From tray width mm	Pack Piece	Item no.
TrayFix-10-S	100	1	5403102

- Fastening system for the mounting of cable trays and mesh cable trays with the FangFix block, e.g. for cable routing on flat roofs
- Matches OBO cable tray systems MKSM and SKSM
- Matches OBO mesh cable tray systems with a minimum width of 100 mm
- Set consisting of TrayFix fastening and concrete block incl. base for FangFix system 10 kg



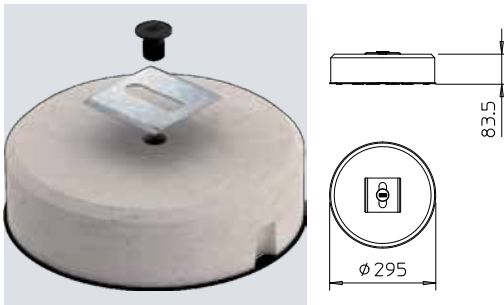
Stand – TrayFix set 10 S



Type	From tray width mm	Pack Piece	Item no.
TrayFix-10-S	100	1	5403102

- Fastening system for the mounting of cable trays and mesh cable trays with the FangFix block, e.g. for cable routing on flat roofs
- Matches OBO cable tray systems MKSM and SKSM
- Matches OBO mesh cable tray systems with a minimum width of 100 mm
- Set consisting of TrayFix fastening and concrete block incl. base for FangFix system 10 kg

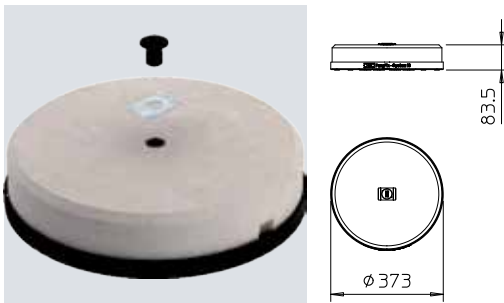
Stand – TrayFix set 10 L



Type	From tray width mm	Pack Piece	Item no.
TrayFix-10-L	100	1	5403101

- Fastening system for the mounting of cable trays and mesh cable trays with the FangFix block, e.g. for cable routing on flat roofs
- Matches OBO cable tray systems MKSM and SKSM
- Matches OBO mesh cable tray systems with a minimum width of 100 mm
- Set consisting of TrayFix fastening and concrete block incl. base for FangFix system 10 kg

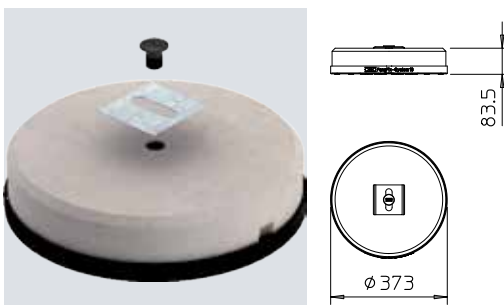
Stand – TrayFix set 16 S



Type	From tray width mm	Pack Piece	Item no.
TrayFix-16-S	100	1	5403099

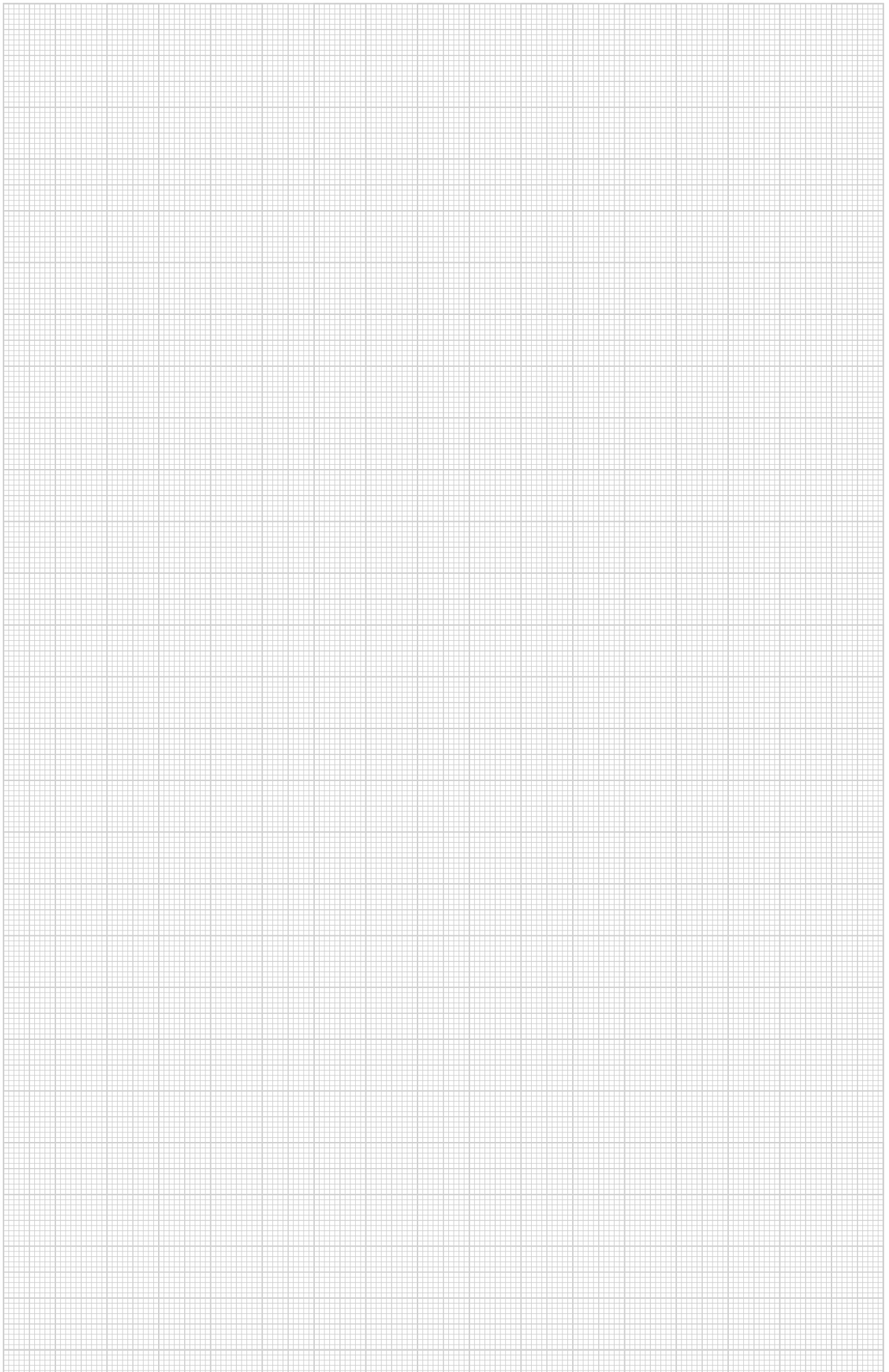
- Fastening system for the mounting of cable trays and mesh cable trays with the FangFix block, e.g. for cable routing on flat roofs
- Matches OBO cable tray systems MKSM and SKSM
- Matches OBO mesh cable tray systems with a minimum width of 100 mm
- Set consisting of TrayFix fastening and concrete block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

Stand - TrayFix set 16 L

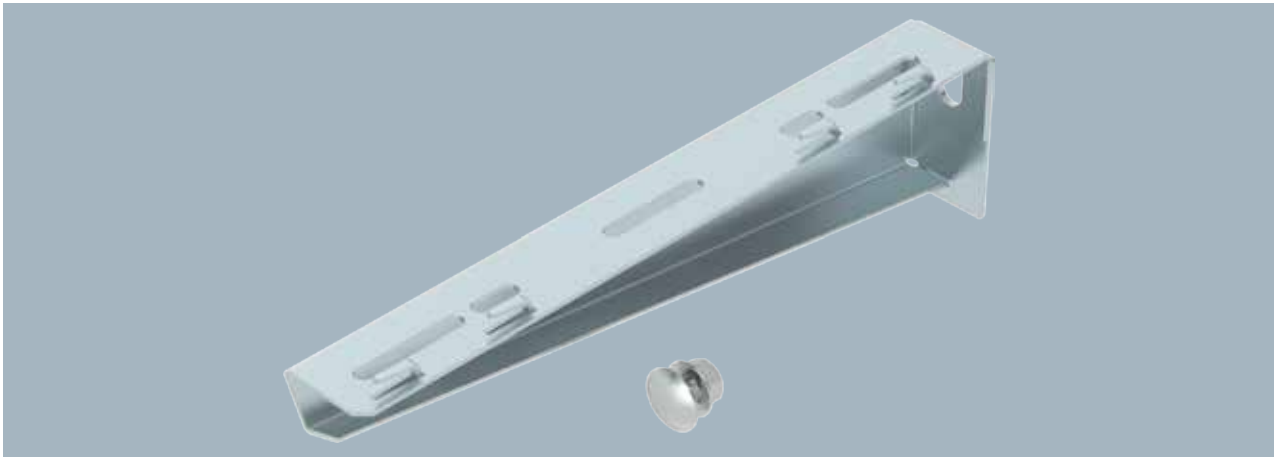


Type	From tray width mm	Pack Piece	Item no.
TrayFix-16-L	100	1	5403098

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



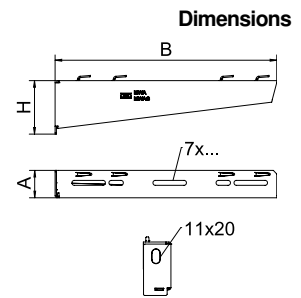
Wall and support bracket MWAG 12



Type	Width mm	F in kN kN	Pack Piece	Item no.
MWAG 12 11 FS	110	1.2	1	6424600
MWAG 12 21 FS	210	1.2	1	6424608
MWAG 12 31 FS	310	1.2	1	6424616
MWAG 12 41 FS	410	1.2	1	6424624

Including truss-head bolt M10 x 25 for fastening to U supports.
Light-duty wall and support bracket with edged design for screw-less mesh cable tray fastening.

Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
MWAG 12 11 FS	110	32.5	53	11
MWAG 12 21 FS	210	32.5	65	11
MWAG 12 31 FS	310	38	75	11
MWAG 12 41 FS	410	38	83	11

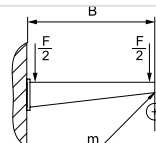


Load diagram, bracket type MWAG 12

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

Characteristic load values for MWAM 12 wall and support bracket

Item on test	Force F (SWL)	Width B
MWAM 12 11 FS	1.2 kN	110 mm
MWAM 12 21 FS	1.2 kN	210 mm
MWAM 12 31 FS	1.2 kN	310 mm
MWAM 12 41 FS	1.2 kN	410 mm

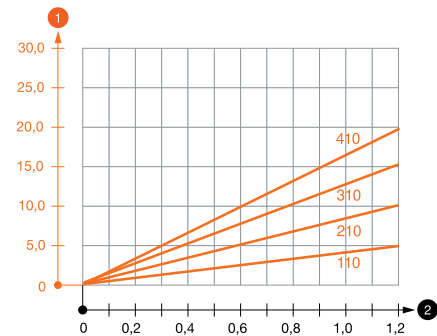


Deformation measuring point m

According to IEC 61537, Chapter 10.8.1

Max. total load F = Cable weight + cable tray + bracket

Load



Characteristic anchor load values for wall and support bracket MWAG 12

Anchor type	Max. load [kN]			
	Bracket width [mm]			
BZ3 10x90/0-30	110	210	310	410
	1,20	1,20	1,20	1,20

Load values for MWAG 12 on suspended support

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

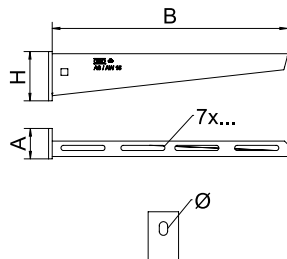


Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate for screwless mesh cable tray fastening.

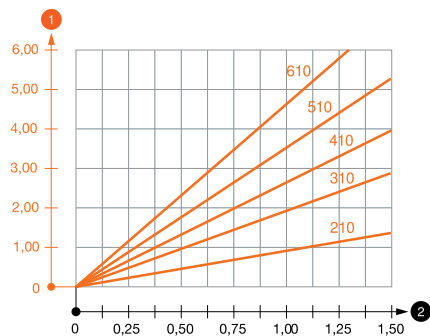
Type	Width mm	F in kN kN		Pack Piece	Item no.
AW G 15 11 FT	110	1.5		1	6420606
AW G 15 16 FT	160	1.5		1	6420607
AW G 15 21 FT	210	1.5	🔥	1	6420608
AW G 15 31 FT	310	1.5	🔥	1	6420610
AW G 15 41 FT	410	1.5	🔥	1	6420612
AW G 15 51 FT	510	1.5		1	6420614
AW G 15 61 FT	610	1.5		1	6420616

Dimensions



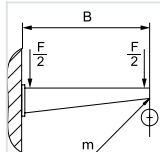
Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW G 15 11 FT	110	40	50	11
AW G 15 16 FT	160	40	55	11
AW G 15 21 FT	210	40	60	11
AW G 15 31 FT	310	40	65	11
AW G 15 41 FT	410	40	70	11
AW G 15 51 FT	510	40	75	11
AW G 15 61 FT	610	40	80	11

Load



Load diagram, bracket type AW G 15

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



Characteristic anchor load values for wall bracket AWG 15 – wall fastening

Item on test	Force F (SWL)	Width B
AWG 15 11 FT	0.15 kN	110 mm
AWG 15 16 FT	0.15 kN	160 mm
AWG 15 21 FT	0.15 kN	210 mm
AWG 15 31 FT	0.15 kN	310 mm
AWG 15 41 FT	0.15 kN	410 mm
AWG 15 51 FT	0.15 kN	510 mm
AWG 15 61 FT	0.15 kN	610 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

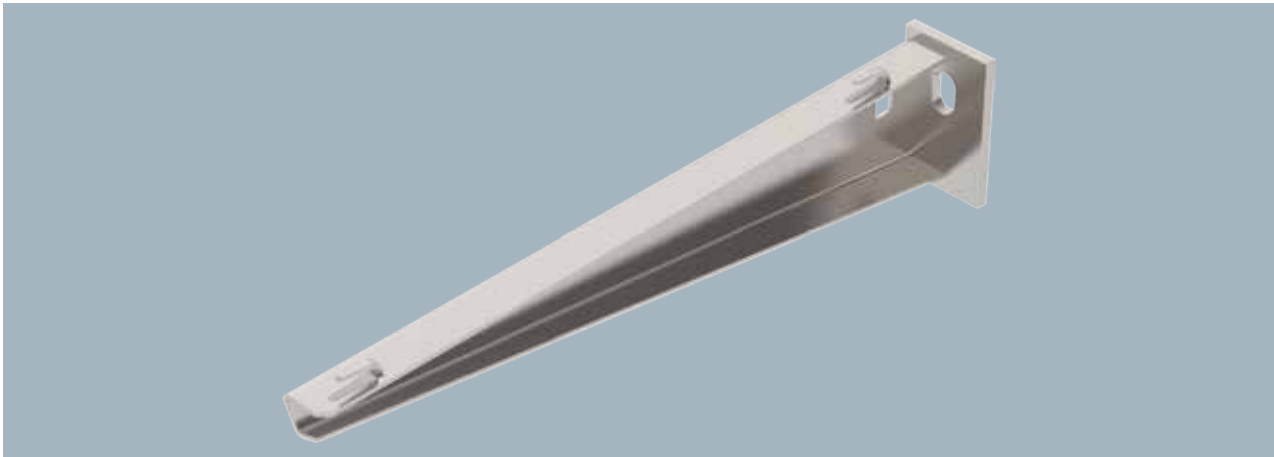
Characteristic anchor load values for wall and support bracket AW G 15

Anchor type	Wall fastening								
	Max. load [kN]								
	Bracket width [mm]								
BZ3 10x90/0-30	110	160	210	310	410	510	560	610	0.94
	1,50	1,50	1,50	1,47	1,25	1,13	0,95		

Load values for AWG 15 on support

Support	Max. total load F in kN			
	Bracket length in mm			
	100	200	300	400
US 3 K/ 20 - 60	1,50	1,50	1,30	1,30
US 3 K/ 70 - 120	1,50	1,50	1,30	1,30
US 5 K/ 20 - 60	1,50	1,50	1,50	1,50
US 5 K/ 70 - 120	1,50	1,50	1,40	1,50

Wall and support bracket AWG 15

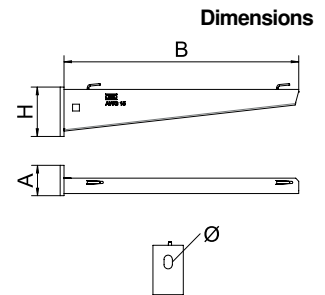


Type	Width mm	F in kN kN	Pack Piece	Item no.
AWG 15 11 A2	110	1.5	1	6420625
AWG 15 21 A2	210	1.5	1	6420628
AWG 15 31 A2	310	1.5	1	6420631
AWG 15 41 A2	410	1.5	1	6420634
AWG 15 51 A2	510	1.5	1	6420637
AWG 15 61 A2	610	1.5	1	6420640

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

Light-duty wall and support bracket with welded head plate for screwless mesh cable tray fastening.

Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AWG 15 11 A2	110	40	50	11
AWG 15 21 A2	210	40	60	11
AWG 15 31 A2	310	40	65	11
AWG 15 41 A2	410	40	70	11
AWG 15 51 A2	510	40	75	11
AWG 15 61 A2	610	40	80	11

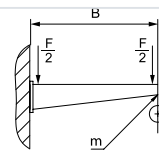


Load diagram, bracket type AW G 15

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

Characteristic anchor load values for wall bracket AWG 15 - wall fastening

Item on test	Force F (SWL)	Length L
AWG 15 11 A2	0.15 kN	110 mm
AWG 15 21 A2	0.15 kN	210 mm
AWG 15 31 A2	0.15 kN	310 mm
AWG 15 41 A2	0.15 kN	410 mm
AWG 15 51 A2	0.15 kN	510 mm
AWG 15 61 A2	0.15 kN	610 mm



Deformation measuring point m

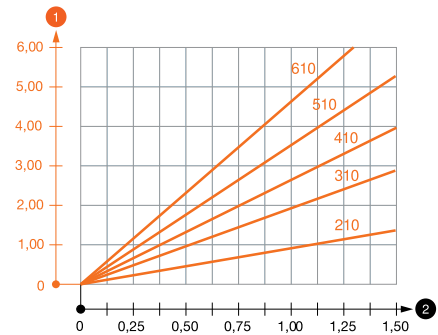
According to IEC 61537, Chapter 10.8.1

Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for wall and support bracket AW G 15

Anchor type	Wall fastening							
	Max. load [kN]							
	Bracket width [mm]							
BZ3 10x90/0-30	110	160	210	310	410	510	560	610
	1,50	1,50	1,50	1,47	1,25	1,13	0,95	0,94

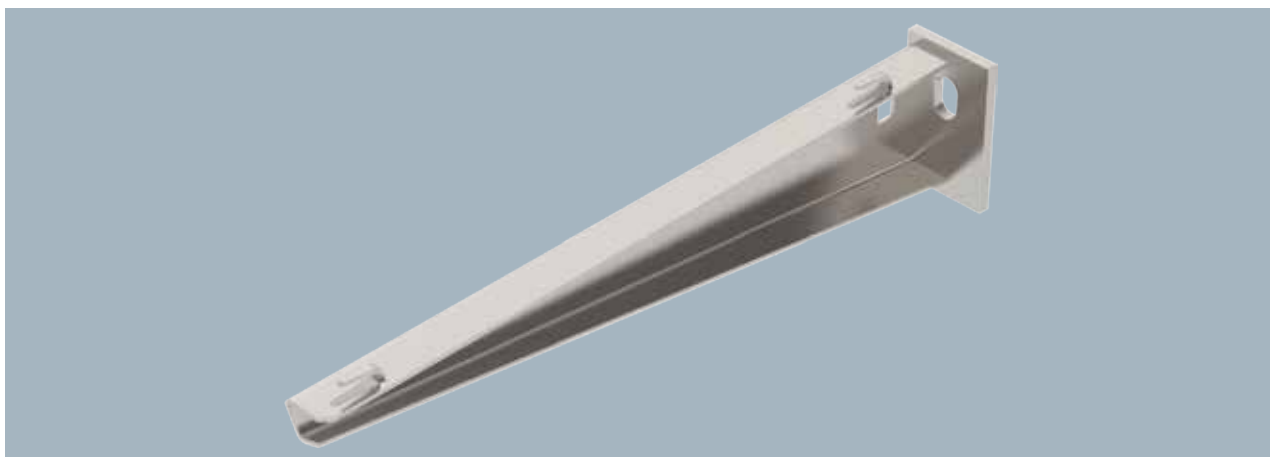
Load



A4 2B



Wall and support bracket AWG 15

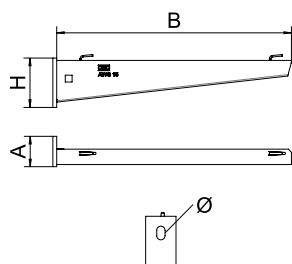


Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate for screwless mesh cable tray fastening.

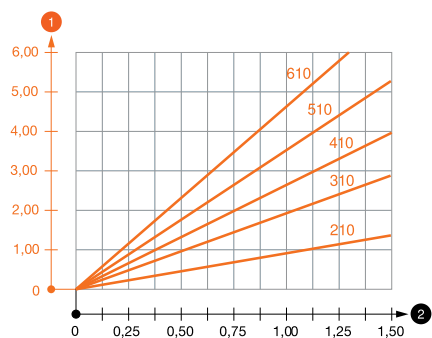
Type	Width mm	F in kN	Pack Piece	Item no.
AWG 15 11 A4	110	1.5	1	6420642
AWG 15 21 A4	210	1.5	1	6420644
AWG 15 31 A4	310	1.5	1	6420646
AWG 15 41 A4	410	1.5	1	6420648
AWG 15 51 A4	510	1.5	1	6420650
AWG 15 61 A4	610	1.5	1	6420652

Dimensions



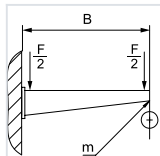
Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AWG 15 11 A4	110	40	50	11
AWG 15 21 A4	210	40	60	11
AWG 15 31 A4	310	40	65	11
AWG 15 41 A4	410	40	70	11
AWG 15 51 A4	510	40	75	11
AWG 15 61 A4	610	40	80	11

Load



Load diagram, bracket type AW G 15

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



Characteristic anchor load values for wall bracket AWG 15 - wall fastening

Item on test	Force F (SWL)	Width B
AWG 15 11 A4	0.15 kN	110 mm
AWG 15 21 A4	0.15 kN	210 mm
AWG 15 31 A4	0.15 kN	310 mm
AWG 15 41 A4	0.15 kN	410 mm
AWG 15 51 A4	0.15 kN	510 mm
AWG 15 61 A4	0.15 kN	610 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for wall and support bracket AW G 15

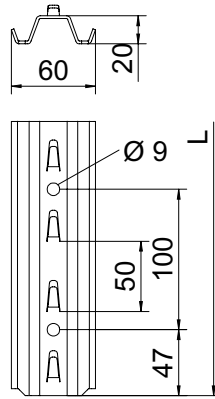
Anchors Appr. Anchor type	Wall fastening								
	Max. load [kN]								
	Bracket width [mm]								
BZ3 10x90/0-30	110%	200	300	400	500	600	560	610	0.94
	1,50	1,50	1,50	0,65	0,61	0,55	0,95		

TP profile



TP profile with clamping lugs.

Type	Length mm	Pack Piece	Item no.
TPSG 3000 FS	3000	1	6366090
TPSG 3000 FT	3000	1	6366093





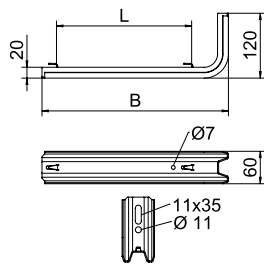
TPSAG TP support/wall and support bracket



If the bracket is fastened directly to the wall or the profiles are screwed together, then, for reasons of stability, always use the spacer, type DS 4.
 TP bracket with clamping lugs for screwless mesh cable tray fastening.

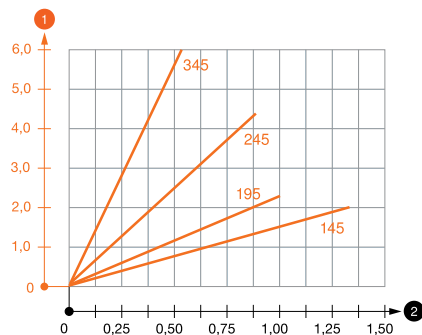
Type	For width mm	Pack Piece	Item no.
TPSAG 145 FS	100	1	6366015
TPSAG 195 FS	150	1	6366023
TPSAG 245 FS	200	1	6366031
TPSAG 345 FS	300	1	6366066

Dimensions



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

Load



Load diagram, bracket TPSAG

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

Characteristic anchor load values for TP bracket - wall fastening

Item on test	Force F (SWL)	Width B
TPSA 145 FT	0.15 kN	145 mm
TPSA 195 FT	1 kN	195 mm
TPSA 245 FT	0.950 kN	245 mm
TPSA 345 FT	0.55 kN	345 mm

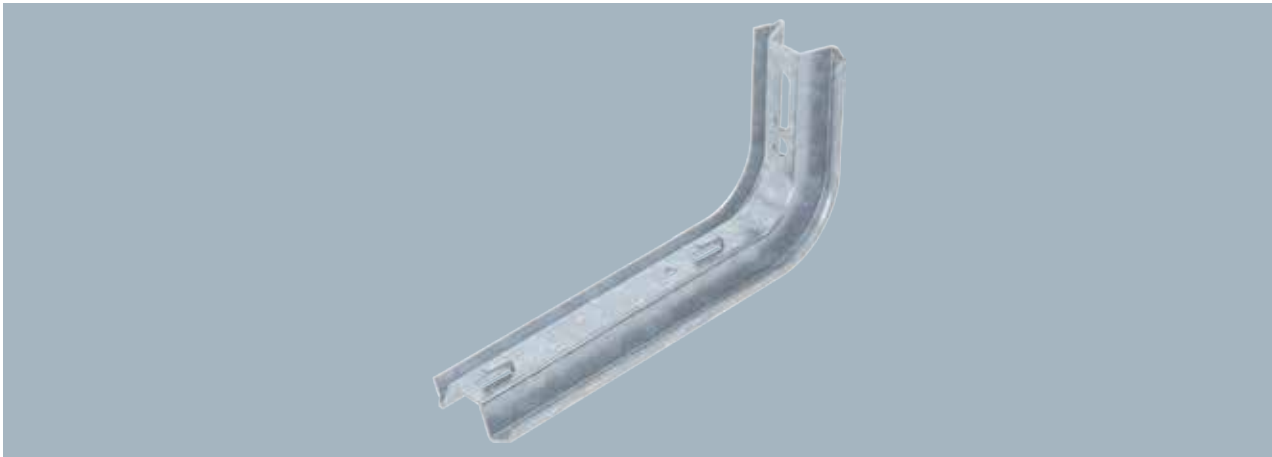
Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Characteristic anchor load values for TP bracket

Anchor type	Wall fastening			
	Max. load [kN]			
	Bracket width [mm]			
BZ3 10x90/0-30	145	195	245	345
	1,00	0,93	0,60	0,55

The load capacity values increase considerably when used in uncracked concrete. The stated values are based on cracked concrete of compressive strength C20/25. Please comply with the installation conditions of ETA(anchors).

TPSAG TP support/wall and support bracket

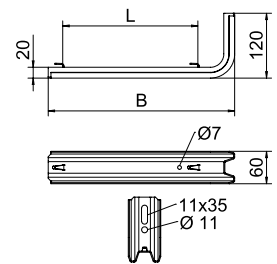


Type	For width mm	Pack Piece	Item no.
TPSAG 145 FT	100	1	6366131
TPSAG 195 FT	150	1	6366135
TPSAG 245 FT	200	1	6366139
TPSAG 345 FT	300	1	6366143

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

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

Dimensions



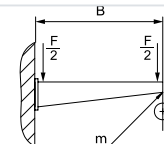
Load diagram, bracket TPSAG

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

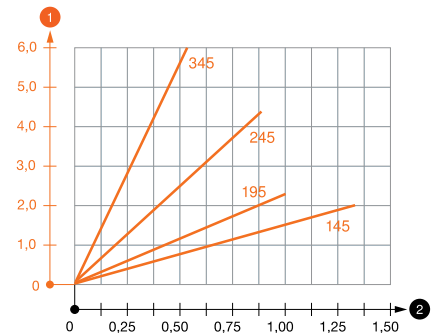
Characteristic anchor load values for TP bracket - wall fastening

Item on test	Force F (SWL)	Width B
TPSAG 145 FT	0.15 kN	145 mm
TPSAG 195 FT	1 kN	195 mm
TPSAG 245 FT	0.950 kN	245 mm
TPSAG 345 FT	0.55 kN	345 mm

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



Load



Characteristic anchor load values for TP bracket

Anchor type	Wall fastening			
	Max. load [kN]			
	Bracket width [mm]			
	145	195	245	345
BZ3 10x90/0-30	1,30	0,93	0,60	0,55

The load capacity values increase considerably when used in uncracked concrete. The stated values are based on cracked concrete of compressive strength C20/25. Please comply with the installation conditions of ETA(anchors).



TP wall and ceiling bracket



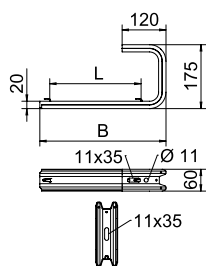
If the wall and ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.

Max. side height of the cable support system 60 mm.

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

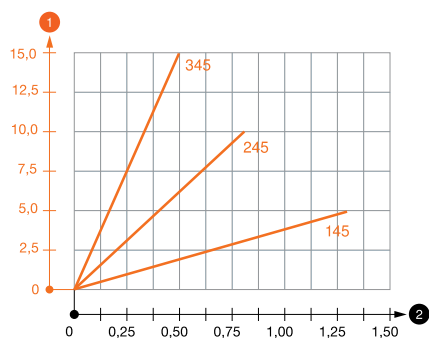
Type	For width mm	F in ceiling kN	F in wall kN	Pack Piece	Item no.
TPDG 145 FS	100	1.3	1.4	6	6365906
TPDG 195 FS	150	0.95	1.05	6	6365914
TPDG 245 FS	200	0.8	0.87	5	6365922
TPDG 345 FS	300	0.5	0.55	5	6365949

Dimensions



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

Load



Load diagram, ceiling bracket TPDG

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

Characteristic anchor load values for TPDG wall and ceiling bracket

		Wall fastening				
		Max. load [kN]				
		Bracket length [mm]				
Anchor type	BZ3 8x95/0-40 BZ3 10x90/0-30	145	245	345	445	545
		0,56	0,53	0,50	0,47	0,44
		1,03	0,96	0,68	0,54	

		Ceiling fastening				
		Max. load [kN]				
		Bracket width [mm]				
Anchor type	BZ-U 8-30-41/95 BZ3 10x90/0-30	145	245	345	445	545
		1,48	0,93	0,50	0,35	0,25
		1,45	0,93	0,50	0,35	0,25

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

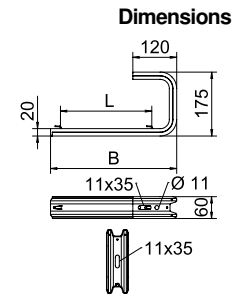
TP wall and ceiling bracket



Type	For width mm	F in ceiling kN	F in wall kN	Pack Piece	Item no.
TPDG 145 FT	100	1.3	1.4	6	6365977
TPDG 245 FT	200	0.8	0.87	5	6365981
TPDG 345 FT	300	0.5	0.55	5	6365985

If the wall and ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
 Max. side height of the cable support system 60 mm.
 TP wall and ceiling bracket with clamping lugs for screwless mesh cable tray fastening.

Type	Dim. B mm	Dim. L mm
TPDG 145 FT	145	50
TPDG 245 FT	245	150
TPDG 345 FT	345	250



Load diagram, ceiling bracket TPDG

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

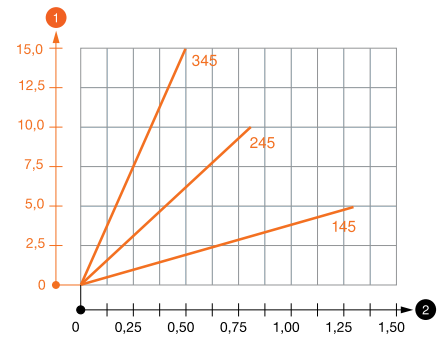
Load

Characteristic anchor load values for TPDG wall and ceiling bracket

		Wall fastening				
		Max. load [kN]				
		Bracket length [mm]				
Anchor type		145	245	345	445	545
BZ3 8x95/0-40		0.56	0.53	0.50	0.47	0.44
BZ3 10x90/0-30		1.03	0.96	0.68		0.54

		Ceiling fastening				
		Max. load [kN]				
		Bracket width [mm]				
Anchor type		145	245	345	445	545
BZ-U 8-30-41/95		1.48	0.93	0.50	0.35	0.25
BZ3 10x90/0-30		1.45	0.93	0.50	0.35	0.25

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



A2 2B



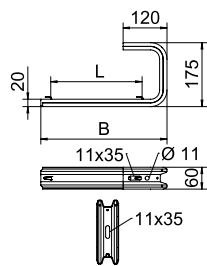
TP wall and ceiling bracket



If the wall and ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
 Max. side height of the cable support system 60 mm.
 TP wall and ceiling bracket with clamping lugs for screwless mesh cable tray fastening.

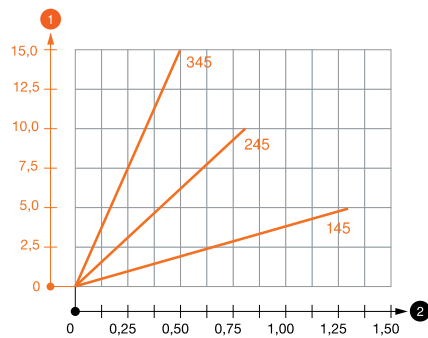
Type	For width mm	F in ceiling kN	F in wall kN	Pack Piece	Item no.
TPDG 145 A2	100	1.3	1.4	6	6365989
TPDG 195 A2	150	0.95	1.05	6	6365991
TPDG 245 A2	200	0.8	0.87	5	6365993
TPDG 345 A2	300	0.5	0.55	5	6365995

Dimensions



Type	Dim. B mm	Dim. L mm
TPDG 145 A2	145	50
TPDG 195 A2	195	100
TPDG 245 A2	245	150
TPDG 345 A2	345	250

Load



Load diagram, ceiling bracket TPDG

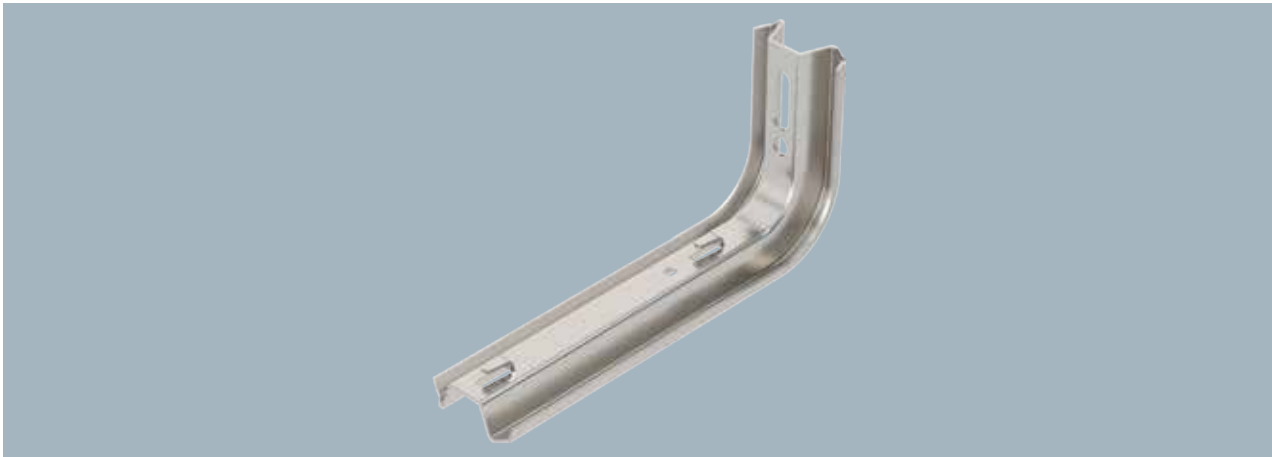
- ① Bending of the bracket tip at permitted bracket load
- ② Permitted bracket load in kN without man load
- Load curve with bracket lengths in mm

Characteristic anchor load values for TPDG wall and ceiling bracket

		Wall fastening				
		Max. load [kN]				
		Bracket length [mm]				
Anchor type	BZ3 8x95/0-40 BZ3 10x90/0-30	145	245	345	445	545
		0,56	0,53	0,50	0,47	0,44
		1,03	0,96	0,68	0,54	
		Ceiling fastening				
		Max. load [kN]				
		Bracket width [mm]				
Anchor type	BZ-U 8-30/95 BZ3 10x90/0-30	145	245	345	445	545
		1,48	0,93	0,50	0,35	0,25
		1,45	0,93	0,50	0,35	0,25

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

TP support / wall and support bracket

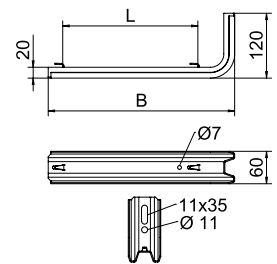


Type	For width mm	Pack Piece	Item no.
TPSAG 145 A2	100	50	6366145
TPSAG 195 A2	150	20	6366146
TPSAG 245 A2	200	20	6366148
TPSAG 345 A2	300	20	6366149

If the bracket is fastened directly to the wall or the profiles are screwed together, then, for reasons of stability, always use the spacer, type DS 4.
TP bracket with clamping lugs for screwless mesh cable tray fastening.

Type	Dim. B mm	Dim. L mm
TPSAG 145 A2	145	50
TPSAG 195 A2	195	100
TPSAG 245 A2	245	150
TPSAG 345 A2	345	250

Dimensions



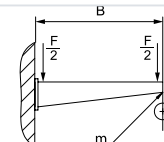
Load diagram, bracket TPSAG

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

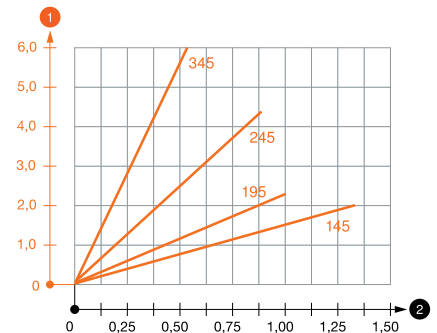
Characteristic anchor load values for TP bracket - wall fastening

Item on test	Force F (SWL)	Width B
TPSA 145 FT	0.15 kN	145 mm
TPSA 195 FT	1 kN	195 mm
TPSA 245 FT	0.950 kN	245 mm
TPSA 345 FT	0.55 kN	345 mm

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



Load



Characteristic anchor load values for TP bracket

Anchor Approved	Bracket load		
	Max. total load F in kN		
	Bracket length in mm		
F kN	145	245	345
2.4	1.50	0.90	0.55
4.3	1.50	1.20	0.80

The load capacity values increase considerably when used in uncracked concrete. The stated values are based on cracked concrete of compressive strength C20/25. Please comply with the installation conditions of ETA(anchors).

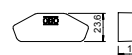
PE



End cap

Type	Colour	Pack Piece	Item no.
TPS KS OR	Pastel orange	10	6364625

End cap to cover ends of TP supports.



St FS FT



Spacer

Type	Pack Piece	Item no.
DS 4 FS	20	6416551
DS 4 FT	20	6416586

For static reasons, the spacer is always used to prevent the profile from deforming when the fastening bolts are tightened.
Spacer for use in profiles, type TP.



A2 2B



Spacer

Type	Pack Piece	Item no.
DS 4 A2	10	6416594

For static reasons, the spacer is always used to prevent the profile from deforming when the fastening bolts are tightened.
Spacer for use in profiles, type TP.



Centre suspensions

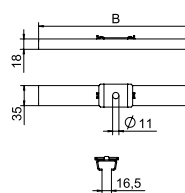
St FS



Centre suspension mesh cable tray

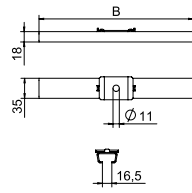
Type	Dim. B mm	Pack Piece	Item no.
GMS 170 FS	170	25	6015400
GMS 270 FS	270	25	6015402
GMS 370 FS	370	25	6015404
GMS 470 FS	470	10	6015406
GMS 570 FS	570	10	6015408

Centre suspension including clamping piece for mesh cable tray suspensions.



Centre suspensions

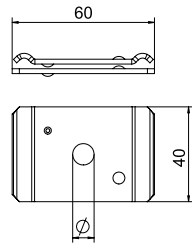
Centre suspension mesh cable tray



Type	Dim. B mm	Pack Piece	Item no.
GMS 170 A4	170	25	6015418
GMS 270 A4	270	25	6015419
GMS 370 A4	370	25	6015420
GMS 470 A4	470	10	6015421
GMS 570 A4	570	10	6015422

Centre suspension including hold-down clamp for mesh cable tray suspensions.

Centre suspension mesh cable tray



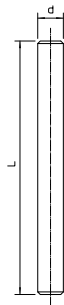
Type	Hole Ø mm	Pack Piece	Item no.
GMA M8 FS	9	25	6015239
GMA M10 FS	11	25	6015247
GMA M6 FS	7	25	6015220
GMA M6 FT	7	25	6015224
GMA M8 FT	9	25	6015243
GMA M10 FT	11	25	6015255

When filling with cables, please ensure an even distribution. The maximum recommended mesh cable tray width is 200 mm.

Two-part centre suspension of mesh cable trays.

Threaded rods

Threaded rod



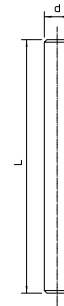
Type	Thread	Dim. d mm	Dim. L mm	Break load kN	Pack Piece	Item no.
TR M6 1M G	M6	6	1000	8.04	10	3141047
TR M8 1M G	M8	8	1000	14.6	10	3141128
TR M10 1M G	M10	10	1000	23.2	10	3141209
TR M12 1M G	M12	12	1000	33.7	10	3141306
TR M6 2M G	M6	6	2000	8.04	10	3141048
TR M8 2M G	M8	8	2000	14.6	10	3141136
TR M10 2M G	M10	10	2000	23.2	10	3141140
TR M12 2M G	M12	12	2000	33.7	10	3141144

Threaded rod to DIN 976.

A2 A4 2B

Type	Thread	Dim. d mm	Dim. L mm	Break load kN	Pack Piece	Item no.
TR M6 1M A2	M6	6	1000	19.78	10	3141327
TR M8 1M A2	M8	8	1000	35.17	10	3141310
TR M10 1M A2	M10	10	1000	54.95	10	3141312
TR M12 1M A2	M12	12	1000	79.13	10	3141314
TR M6 2M A2	M6	6	2000	19.78	10	3141328
TR M8 2M A2	M8	8	2000	35.17	10	3141330
TR M10 2M A2	M10	10	2000	54.95	10	3141339
TR M6 1M A4	M6	6	1000	22.61	1	3141482
TR M8 1M A4	M8	8	1000	40.19	1	3141492
TR M10 1M A4	M10	10	1000	62.8	1	3141502
TR M6 2M A4	M6	6	2000	22.61	1	3141484
TR M8 2M A4	M8	8	2000	40.19	1	3141494

Threaded rod to DIN 976.

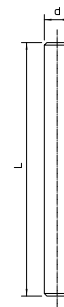


Threaded rod

A2 A4 2B

Type	Thread	Dim. d mm	Dim. L mm	Break load kN	Pack Piece	Item no.
TR M12 2M A2	M12	12	2000	79.13	10	3141316
TR M10 2M A4	M10	10	2000	62.8	20	3141504
TR M12 2M A4	M12	12	2000	90.43	10	3141514

Threaded rod to DIN 976.



Threaded rod

Bracket

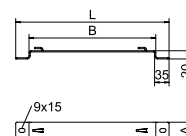
St FS FT



Type	Height mm	Dim. A mm	Dim. B mm	Dim. L mm	Pack Piece	Item no.
DBLG 20 050 FS	20	30	56	120	20	6015646
DBLG 20 100 FS	20	30	106	170	20	6015654
DBLG 20 150 FS	20	30	156	220	20	6015658
DBLG 20 200 FS	20	30	206	270	20	6015662
DBLG 20 300 FS	20	40	306	370	20	6015670
DBLG 20 400 FS	20	40	406	470	20	6015689
DBLG 20 500 FS	20	40	506	570	25	6015693
DBLG 20 600 FS	20	40	606	670	25	6015697
DBLG 20 050 FT	20	30	56	120	20	6015648
DBLG 20 100 FT	20	30	106	170	20	6015656
DBLG 20 200 FT	20	30	206	270	20	6015664
DBLG 20 300 FT	20	40	306	370	20	6015672
DBLG 20 400 FT	20	40	406	470	20	6015691
DBLG 20 500 FT	20	40	506	570	25	6015695
DBLG 20 600 FT	20	40	606	670	25	6015699
DBLG 20 150 FT	20	30	156	220	20	6015660

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

Stand-off bracket for stand-off of mesh cable trays on the floor or on the wall. GRM mesh cable tray types with side heights of 35, 55 and 105 mm can be mounted onto the stand-off bracket.



Stand-off bracket

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Building Connections

