



The stainless steel compact programme

Selection of popular stainless steel products

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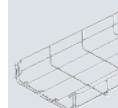
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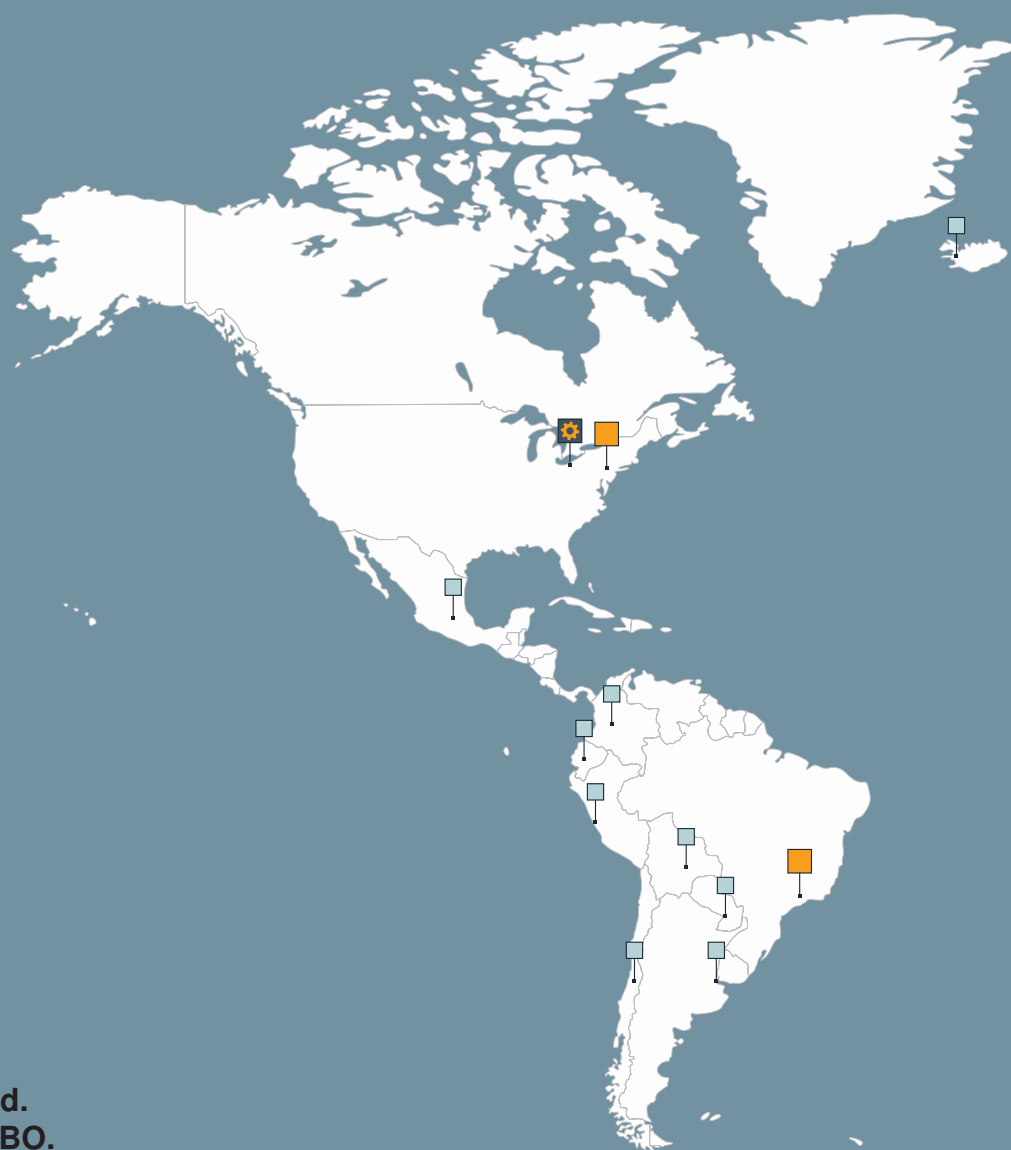
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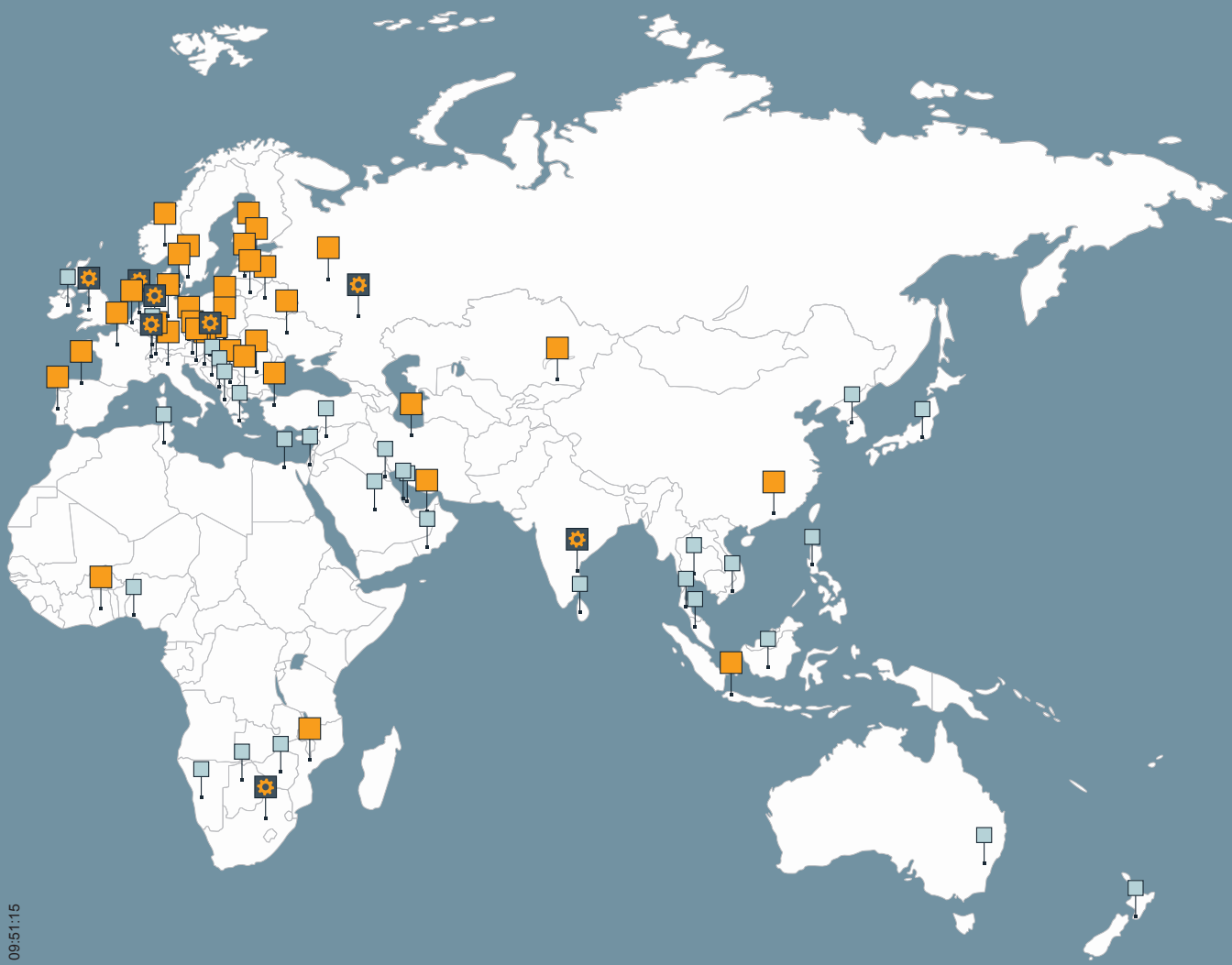
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Welcome world. Welcome to OBO.

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



Production location



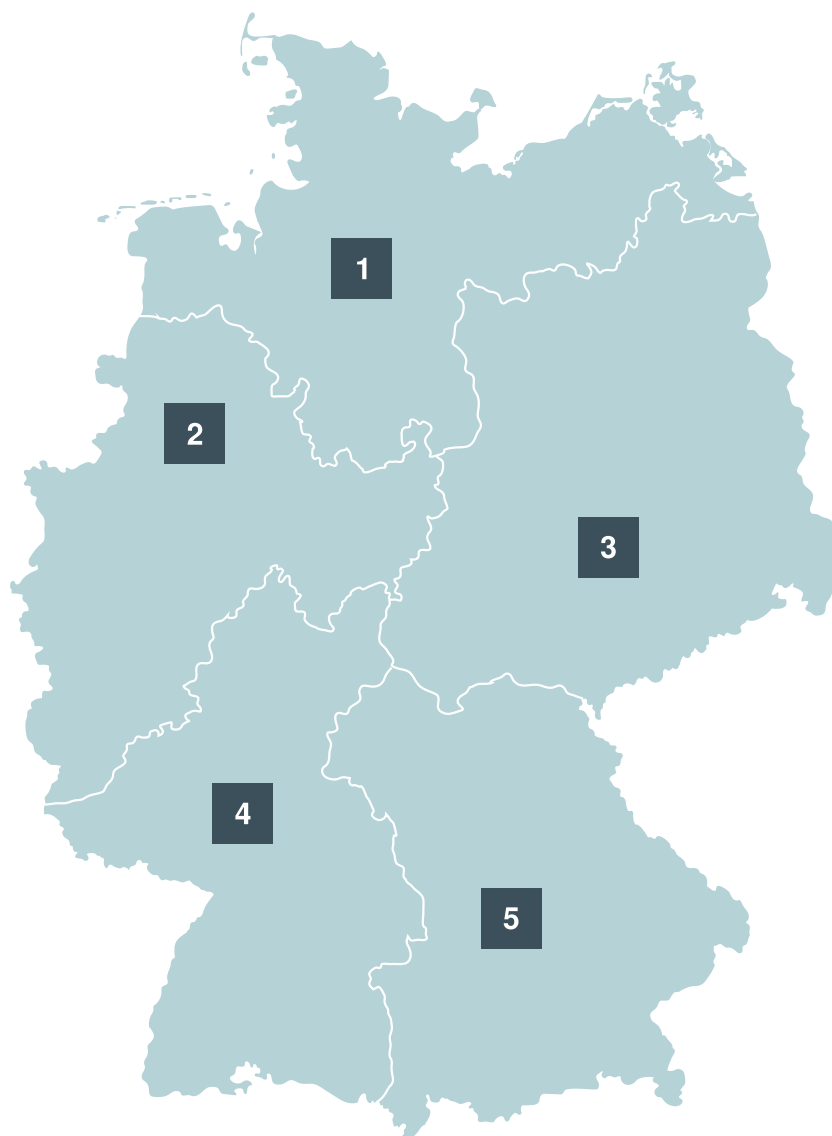
Subsidiary



Representative office

Proximate

The OBO Sales Warehouses in Germany



1

Sales Warehouse North
Bad Fallingbommel

2

Sales Warehouse West
Iserlohn

3

Sales Warehouse East
Delitzsch

4

Sales Warehouse South-West
Groß-Rohrheim

5

Sales Warehouse South
Dasing

Did you know?

Approx.
36,000 m²

warehouse space is available all over Germany. This means that deliveries are possible flexibly and at any time, even at short notice.

Only in this way could we achieve transporting goods of around 40,000 tonnes in Germany in 2018. We are constantly on the move – our trained specialists in the field of logistics ensure that our products are in the right place at the right time. Should things become more difficult, such as the transport of long goods, then we avail ourselves of the support of local providers.

We make it possible!

Valuable

OBO support at your side

You can contact our Customer Service department on:

+44 7899-2000

Monday–Thursday
07.30–17.00

Friday
07.30–15.00

export@obo.de



Service



Training



Handling



Certification

Service – OBO can help

Everywhere and in every project phase:

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

Training courses from OBO

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

Handling – OBO delivers reliably

With optimised delivery processes:

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

Certification and guarantee

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

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

OBO stands for the highest quality

Our products carry the "Stainless steel" seal



OBO Bettermann is a member of Edelstahl Rostfrei e.V. (Stainless steel trademark association) and carries the quality seal "Edelstahl Rostfrei" ("Stainless steel"). This means OBO is one of several companies delivering their products with a quality promise: materials perfectly aligned to the application, sustainable competence in production as well as processing and practiced customer orientation via a voluntary commitment to quality.

For 60 years, users and consumers have trusted the quality seal with the star: Stainless steel. The seal represents a commitment from manufacturers and processors from all kinds of industries to use the appropriate material and to correctly process stainless steel. Because stainless steel signifies quality and is able to withstand the highest demands. This quality results from the various alloys, such as possessing a minimum of 10.5 per cent chrome, for example. These additional alloys refine normal steel into a rustproof, acid-resistant material.

A quality seal as an essential guide

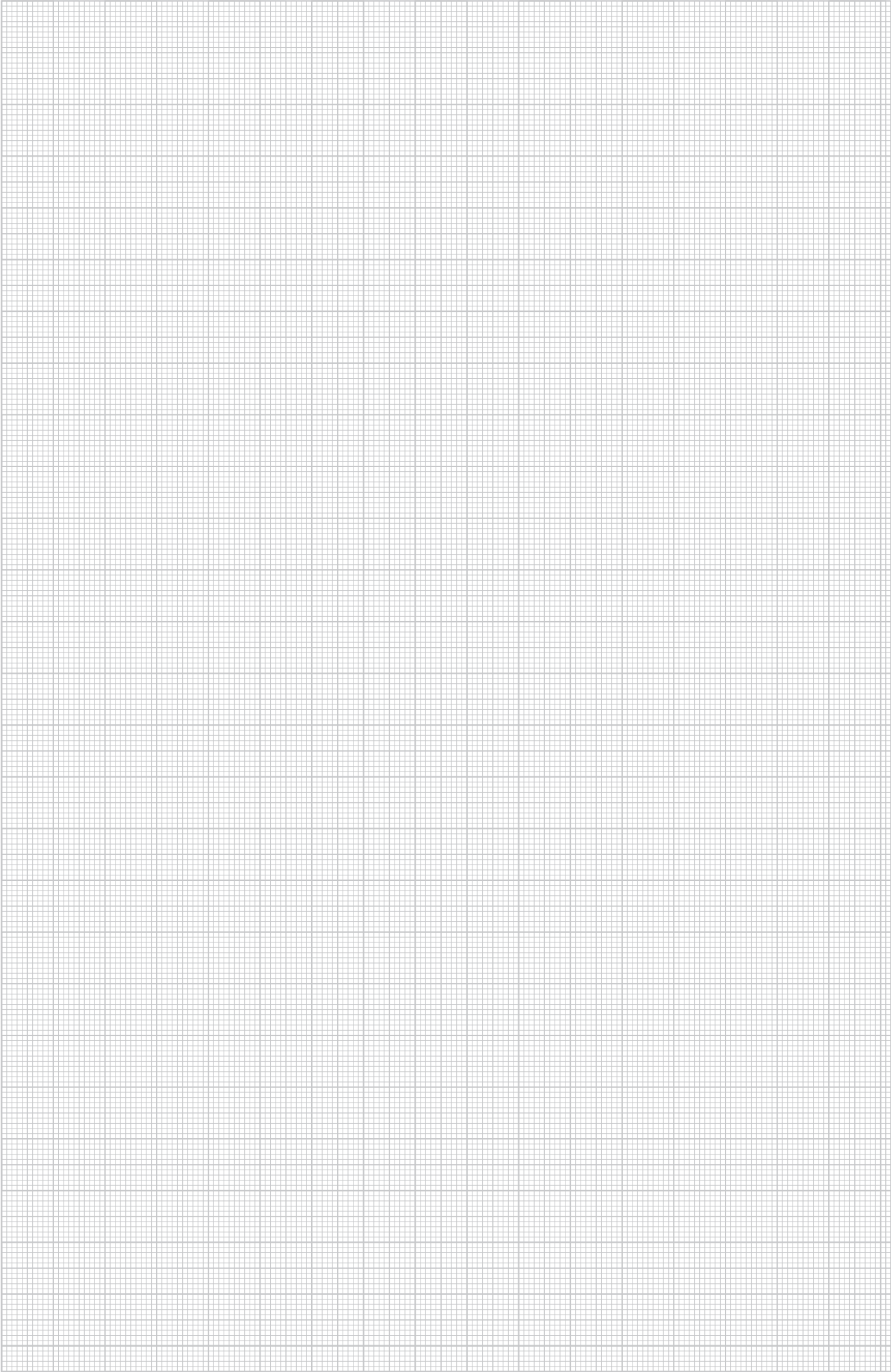
The seal is awarded by the Edelstahl Rostfrei e.V. trademark association. The association is the voice for around 1,000 mainly medium-sized member companies that carry the internationally protected seal as their promise of quality. The main focus for awarding the seal is the correct use of materials depending on the application and the appropriate manufacture and processing. The member companies commit to the regulations of this unparalleled quality programme, which provides essential support when working with demanding customers. Companies that are entitled to use the registered "Edelstahl Rostfrei" trademark provide their customers with the security of knowing they have chosen a top supplier that attaches great importance to material quality and lasting reliability in their workmanship.

OBO represents the highest quality and offers intelligent solutions

The "Edelstahl Rostfrei" seal shows clearly how much importance OBO places on the quality of our products. Right from the planning and development stages, we always have an eye on the compatibility of our products in their area of application, ensuring we offer our customers intelligent and well-thought-out solutions. Our brands always keep this promise.

Find out more here

<https://www.wzv-rostfrei.de/ueber-uns/qualitaetssiegel>
<https://www.wzv-rostfrei.de/ueber-uns/verband>

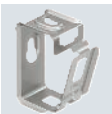




Fastening clips and installation pipes

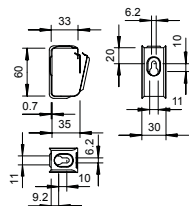
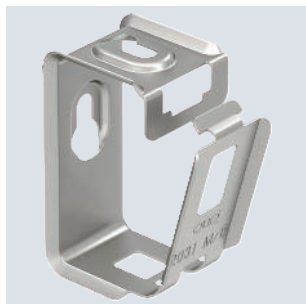


Fastening clips and installation pipes

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Grip, metal 15

VA VA 2B



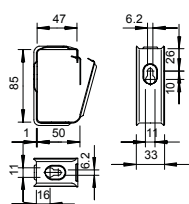
Type	No. of conductors NYM 3 x 1.5	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
2031 M 15 A2	15	50	50	3.000	2207080
2031 M 15 A4	15	50	50	3.000	2207132

/100 pc.

Metal cable tidy for high mechanical stability, even in case of fire. Suitable for secure mounting above fire protection ceilings. Also approved as a cable-specific variant for the maintenance of electrical function to DIN 4102 part 12. For wall and ceiling mounting. Lock can be opened without tools. Detailed information on the approved routing variants can be found in the appropriate testing documentation.

Grip, metal 30

VA VA 2B



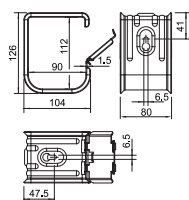
Type	No. of conductors NYM 3 x 1.5	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
2031 M 30 A2	30	25	25	6.500	2207088
2031 M 30 A4	30	25	25	6.500	2207140

/100 pc.

Metal cable tidy for high mechanical stability, even in case of fire. Suitable for safe mounting above fire protection ceilings. Also approved as a cable-specific variant for the maintenance of electrical function to DIN 4102 part 12. For wall and ceiling mounting. Lock can be opened without tools. Detailed information on the approved routing variants can be found in the appropriate testing documentation.

Grip, metal 70

VA VA 2B

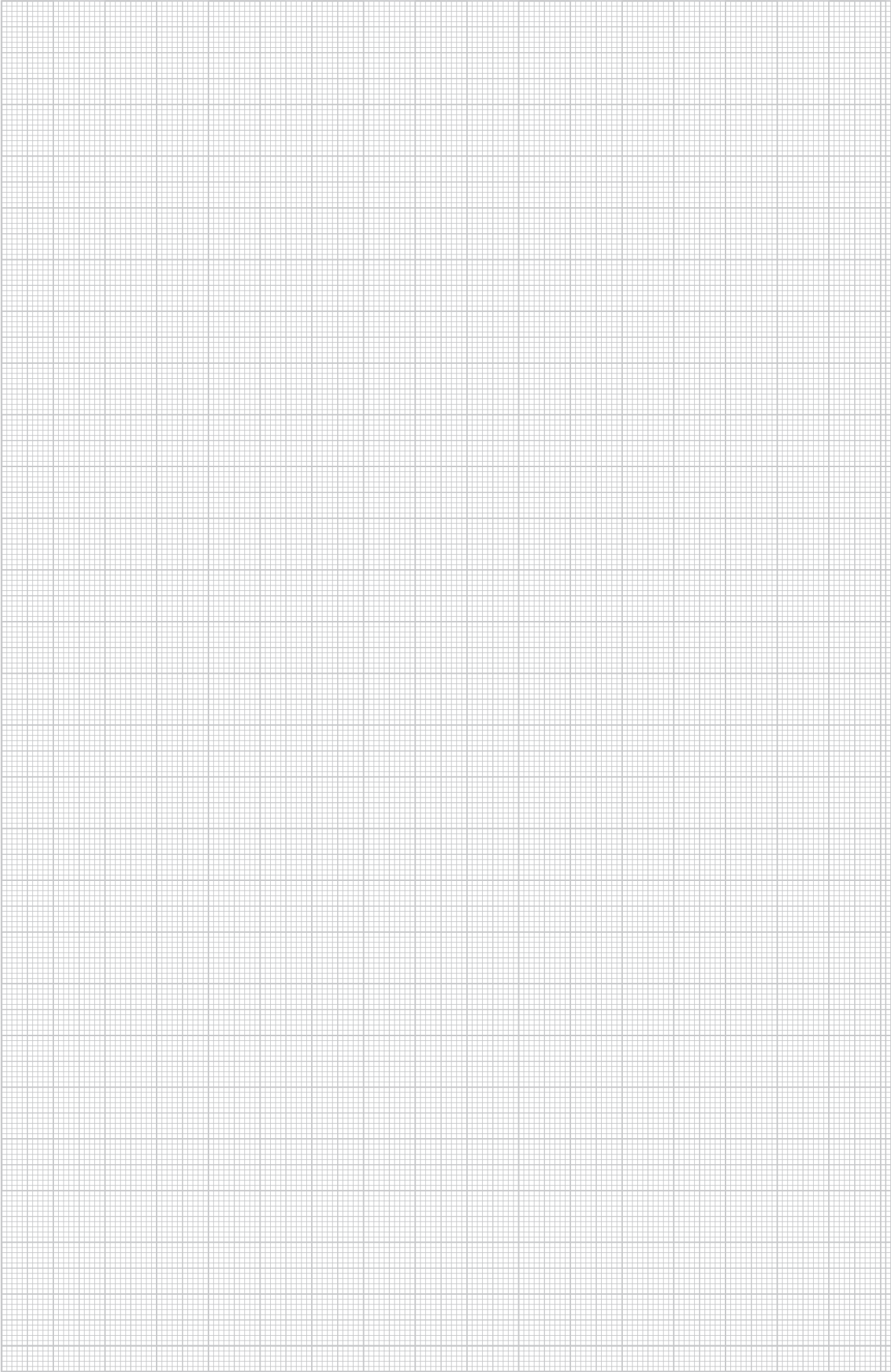


Type	No. of conductors NYM 3 x 1.5	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
2031 M 70 A2	70	10	10	37.000	2207112
2031 M 70 A4	70	10	10	37.000	2207164

/100 pc.

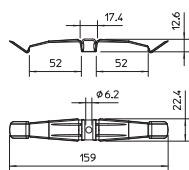
Metal cable tidy for high mechanical stability, even in case of fire. Suitable for safe mounting above fire protection ceilings. Also approved as a cable-specific variant for the maintenance of electrical function to DIN 4102 part 12. For wall and ceiling mounting. Lock can be opened without tools. Detailed information on the approved routing variants can be found in the appropriate testing documentation.





Pressure clip for 10 cables

VA 2B



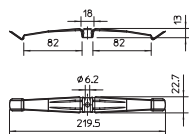
Type	No. of conductors NYM 3 x 1.5	Pack Piece	Weight kg/100 pc.	Item no.
2034 M A2	10	50	1.860	2204010

/100 pc.

The metal pressure clip is halogen and fire load-free, and maintains a good mechanical stability even in fires. The pressure clip is also approved as a cable-specific variant for the maintenance of electrical functionality to DIN 4102 Part 12. The spacer 2033 D 15 x 3 G (must be ordered separately) increases the clamping height of pressure clips from 10 to 13 mm. The pressure clips are suitable for fireproof mounting above suspended fire protection ceilings in accordance with DIN 4102.

Pressure clip for 16 cables

VA 2B



Type	No. of conductors NYM 3 x 1.5	Pack Piece	Weight kg/100 pc.	Item no.
2033 M A2	16	25	2.310	2204000

/100 pc.

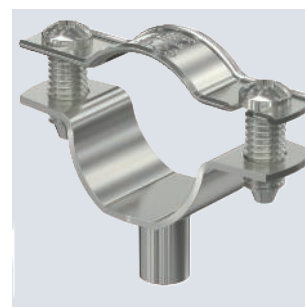
The metal pressure clip is halogen and fire load-free, and maintains a good mechanical stability even in fires. The pressure clip is also approved as a cable-specific variant for the maintenance of electrical functionality to DIN 4102 Part 12. The spacer 2033 D 15 x 3 G (must be ordered separately) increases the clamping height of pressure clips from 10 to 13 mm. The pressure clips are suitable for fireproof mounting above suspended fire protection ceilings in accordance with DIN 4102.



VA



Spacer clip 732



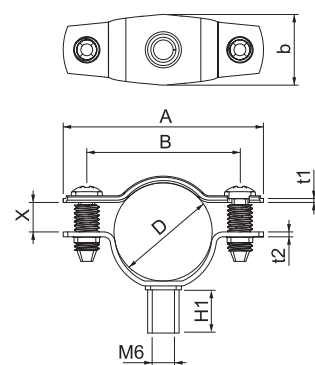
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
ASG 732 6 A2	5-6	25	1.537	1362622
ASG 732 7 A2	6-7	25	1.553	1362624
ASG 732 8 A2	7-8	25	1.561	1362626
ASG 732 10 A2	8-10	25	1.749	1362628
ASG 732 12 A2	10-12	25	1.796	1362630
ASG 732 14 A2	12-14	25	1.859	1362632
ASG 732 17 A2	14-17	25	2.007	1362634
ASG 732 20 A2	17-20	25	2.110	1362636
ASG 732 25 A2	20-25	25	2.361	1362638
ASG 732 30 A2	25-30	20	3.321	1362640
ASG 732 36 A2	30-36	20	3.728	1362642
ASG 732 44 A2	36-44	20	4.099	1362644
ASG 732 53 A2	44-53	20	4.781	1362646
ASG 732 63 A2	53-63	20	5.301	1362648

Spacer clip for the installation of pipes and cables on walls, ceiling and floors. With self-locking upper part. Surfaces G and FT from a clip size of 20 are suitable for the installation with a nail device or a bolt-firing tool.

Approved for the maintenance of electrical function according to DIN 4102 Part 12, maintenance of electrical function classes E30 to E90.

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. x mm	Dim. b mm	Dimen- sion t1 mm	Dimen- sion t2 mm	Dim. H1 mm
ASG 732 6 A2	5-6	35	23	1.5	18	1	1.25	12
ASG 732 7 A2	6-7	35	23	1.5	18	1	1.25	12
ASG 732 8 A2	7-8	35	23	1.5	18	1	1.25	12
ASG 732 10 A2	8-10	37	25	3	18	1	1.25	12
ASG 732 12 A2	10-12	39	27	3	18	1	1.25	12
ASG 732 14 A2	12-14	41	29	3	18	1	1.25	12
ASG 732 17 A2	14-17	44	32	4.5	18	1	1.25	12
ASG 732 20 A2	17-20	47	35	4.5	18	1	1.25	12
ASG 732 25 A2	20-25	51	39	7.5	18	1	1.25	12
ASG 732 30 A2	25-30	59	45	7.5	18	1.5	1.5	12
ASG 732 36 A2	30-36	65	51	9	18	1.5	1.5	12
ASG 732 44 A2	36-44	73	59	12	18	1.5	1.5	12
ASG 732 53 A2	44-53	84	70	13.5	18	1.5	1.5	12
ASG 732 63 A2	53-63	94	80	15	18	1.5	1.5	12

Dimensions



Spacer clip 732

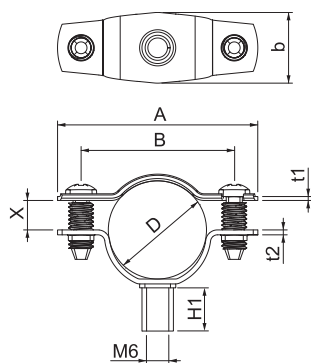


Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
ASG 732 6 A4	5-6	25	1.558	1362454
ASG 732 7 A4	6-7	25	1.574	1362456
ASG 732 8 A4	7-8	25	1.582	1362458
ASG 732 10 A4	8-10	25	1.773	1362460
ASG 732 12 A4	10-12	25	1.821	1362462
ASG 732 14 A4	12-14	25	1.885	1362464
ASG 732 17 A4	14-17	25	2.035	1362467
ASG 732 20 A4	17-20	25	2.139	1362469
ASG 732 25 A4	20-25	25	2.394	1362472
ASG 732 30 A4	25-30	20	3.370	1362474
ASG 732 36 A4	30-36	20	3.782	1362478
ASG 732 44 A4	36-44	20	4.158	1362482
ASG 732 53 A4	44-53	20	4.851	1362486
ASG 732 63 A4	53-63	20	5.379	1362489

Spacer clip for the installation of pipes and cables on walls, ceiling and floors. With self-locking upper part. Surfaces G and FT from a clip size of 20 are suitable for the installation with a nail device or a bolt-firing tool.

Approved for the maintenance of electrical function according to DIN 4102 Part 12, maintenance of electrical function classes E30 to E90.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. x mm	Dim. b mm	Dimen- sion t1 mm	Dimen- sion t2 mm	Dim. H1 mm
ASG 732 6 A4	5-6	35	23	1.5	18	1	1.25	12
ASG 732 7 A4	6-7	35	23	1.5	18	1	1.25	12
ASG 732 8 A4	7-8	35	23	1.5	18	1	1.25	12
ASG 732 10 A4	8-10	37	25	3	18	1	1.25	12
ASG 732 12 A4	10-12	39	27	3	18	1	1.25	12
ASG 732 14 A4	12-14	41	29	3	18	1	1.25	12
ASG 732 17 A4	14-17	44	32	4.5	18	1	1.25	12
ASG 732 20 A4	17-20	47	35	4.5	18	1	1.25	12
ASG 732 25 A4	20-25	51	39	7.5	18	1	1.25	12
ASG 732 30 A4	25-30	59	45	7.5	18	1.5	1.5	12
ASG 732 36 A4	30-36	65	51	9	18	1.5	1.5	12
ASG 732 44 A4	36-44	73	59	12	18	1.5	1.5	12
ASG 732 53 A4	44-53	84	70	13.5	18	1.5	1.5	12
ASG 732 63 A4	53-63	94	80	15	18	1.5	1.5	12



VA

E30

E60

E90



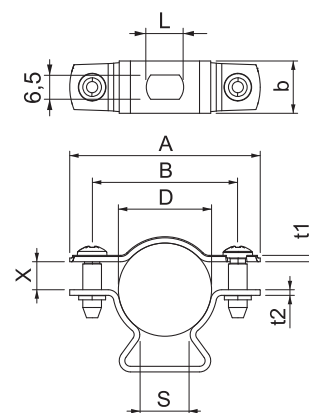
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
ASL 733 10 A2	8-10	25	1.804	1362976
ASL 733 12 A2	10-12	25	1.867	1362978
ASL 733 14 A2	12-14	25	1.946	1362980
ASL 733 17 A2	14-17	25	2.110	1362982
ASL 733 20 A2	17-20	25	2.213	1362984
ASL 733 25 A2	20-25	25	2.432	1362986
ASL 733 30 A2	25-30	20	3.416	1362988
ASL 733 36 A2	30-36	20	3.792	1362990
ASL 733 44 A2	36-44	20	4.170	1362992
ASL 733 53 A2	44-53	20	5.643	1362994
ASL 733 63 A2	53-63	20	6.242	1362996

Spacer clip for the installation of pipes and cables on walls, ceiling and floors. With self-locking upper part. Fastening via slot. From the clip size of 20 suitable for the installation with a nail device or bolt-firing device.

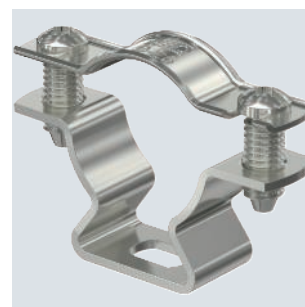
Approved for the maintenance of electrical function to DIN 4102 Part 12, maintenance of electrical function classes E30 to E90 (except ALU).

Type	Dim. A mm	Dim. B mm	Dim. x mm	Dimen- sion t1 mm	Dimen- sion t2 mm	Dim. L mm	Dim. b mm	Dimen- sion s mm
ASL 733 10 A2	37	25	3	1	1.5	10	16	5.5
ASL 733 12 A2	39	27	3	1	1.5	10	14	6.9
ASL 733 14 A2	41	29	3	1	1.5	10	14	8
ASL 733 17 A2	44	32	4.5	1	1.5	10	14	9.5
ASL 733 20 A2	47	35	4.5	1	1.5	10	14	12
ASL 733 25 A2	51	39	7.5	1	1.5	10	14	13.5
ASL 733 30 A2	59	45	7.5	1.5	1.5	10	16	16.5
ASL 733 36 A2	65	51	9	1.5	1.5	10	16	20
ASL 733 44 A2	73	59	12	1.5	1.5	10	16	24
ASL 733 53 A2	84	70	13.5	1.5	2	10	16	29.5
ASL 733 63 A2	94	80	15	1.5	2	10	16	35.3

Dimensions



Spacer clip 733



Spacer clip 733

VA

E30

E60

E90

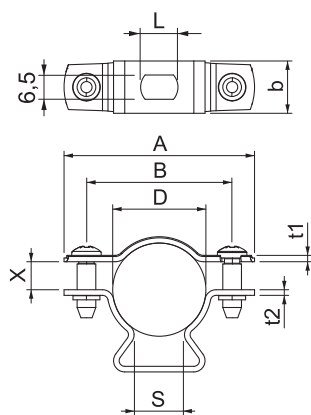


Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
ASL 733 10 A4	8-10	25	1.828	1362904
ASL 733 12 A4	10-12	25	1.893	1362906
ASL 733 14 A4	12-14	25	1.973	1362908
ASL 733 17 A4	14-17	25	2.139	1362912
ASL 733 20 A4	17-20	25	2.243	1362914
ASL 733 25 A4	20-25	25	2.466	1362918
ASL 733 30 A4	25-30	20	3.466	1362922
ASL 733 36 A4	30-36	20	3.846	1362926
ASL 733 44 A4	36-44	20	4.230	1362930
ASL 733 53 A4	44-53	20	5.723	1362934
ASL 733 63 A4	53-63	20	6.331	1362938

Spacer clip for the installation of pipes and cables on walls, ceiling and floors. With self-locking upper part. Fastening via slot. From the clip size of 20 suitable for the installation with a nail device or bolt-firing device.

Approved for the maintenance of electrical function to DIN 4102 Part 12, maintenance of electrical function classes E30 to E90 (except ALU).

Dimensions



Type	Dim. A mm	Dim. B mm	Dim. x mm	Dimen- sion t1 mm	Dimen- sion t2 mm	Dim. L mm	Dim. b mm	Dimen- sion s mm
ASL 733 10 A4	37	25	3	1	1.5	10	16	5.5
ASL 733 12 A4	39	27	3	1	1.5	10	14	6.9
ASL 733 14 A4	41	29	3	1	1.5	10	14	8
ASL 733 17 A4	44	32	4.5	1	1.5	10	14	9.5
ASL 733 20 A4	47	35	4.5	1	1.5	10	14	12
ASL 733 25 A4	51	39	7.5	1	1.5	10	14	13.5
ASL 733 30 A4	59	45	7.5	1.5	1.5	10	16	16.5
ASL 733 36 A4	65	51	9	1.5	1.5	10	16	20
ASL 733 44 A4	73	59	12	1.5	1.5	10	16	24
ASL 733 53 A4	84	70	13.5	1.5	2	10	16	29.5
ASL 733 63 A4	94	80	15	1.5	2	10	16	35.3



VA 2B

Fastening clip 1015

Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
1015 6 A2	6	6,5	1,5	100	0.341	1008633
1015 7 A2	7	6,5	1,5	100	0.420	1008641
1015 8 A2	8	6,5	1,5	100	0.428	1008668
1015 10 A2	10	6,5	1,5	100	0.560	1008684
1015 12 A2	12	6,5	1,5	100	0.672	1008706

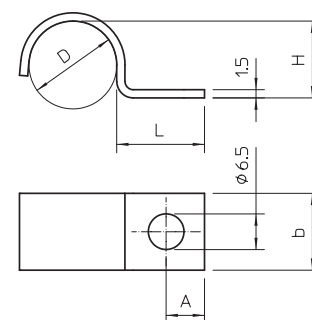
/100 pc.

Single-lobe fastening clip for cables and pipes.



Type	Dim. D mm	Dim. L mm	Dim. H mm	Dim. b mm	Dim. A mm
1015 6 A2	6	16	5	12	7
1015 7 A2	7	16	6	12	7
1015 8 A2	8	16	7	12	7
1015 10 A2	10	16	9	12	7
1015 12 A2	12	16	11	14	7

Dimensions



VA 2B

Fastening clip 605, medium-duty

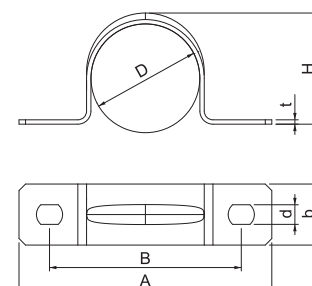
Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
605 12 A4	12	4,5x6	1	100	0.485	1018653
605 16 A4	16	4,5x6	1	100	0.585	1018661
605 20 A4	20	4,5x6	1	100	0.664	1018669
605 25 A4	25	4,5x6	1	100	0.992	1018679
605 32 A4	32	4,5x6	1	100	1.260	1018693
605 40 A4	40	5,5x7	1,5	50	1.900	1018705
605 50 A4	50	5,5x7	1,5	25	2.770	1018717
605 63 A4	63	5,5x7	1,5	25	3.670	1018729

/100 pc.

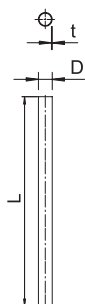
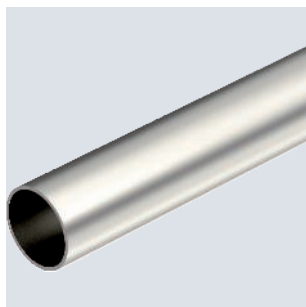
Two lobe fastening clips for cables and pipes.

Type	Dim. D mm	Dim. H mm	Dim. t mm	Dim. A mm	Dim. B mm	Dim. b mm	Dim. d mm	Dim. e mm
605 12 A4	12	11	1	39	27	12	4,5	6
605 16 A4	16	14,5	1	44	32	12	4,5	6
605 20 A4	20	18,5	1	49	37	12	4,5	6
605 25 A4	25	23	1	58	44	14	4,5	6
605 32 A4	32	30	1	66	52	14	5,5	6
605 40 A4	40	37	1,5	75	61	14	5,5	7
605 50 A4	50	46	1,5	88	74	16	5,5	7
605 63 A4	63	59	1,5	112	98	16	5,5	7

Dimensions



Stainless steel pipe, V2A

VA 2B
E30 E90


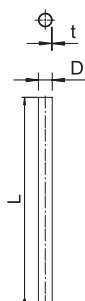
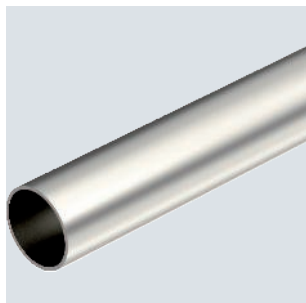
Type	Dim. D mm	Dim. L mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
S16W A2	16	3000	1	30	37.000	2046720
S20W A2	20	3000	1	30	46.900	2046721
S25W A2	25	3000	1	30	59.200	2046722
S32W A2	32	3000	1.2	21	91.200	2046723
S40W A2	40	3000	1.2	15	114.800	2046724
S50W A2	50	3000	1.5	15	179.400	2046725
S63W A2	63	3000	1.5	9	227.500	2046726

price/100 m

5 | 5 | 5 | 7 | 1

Electrical installation pipe without threaded ends to EN 61386-1 for mechanical protection of cables. With burr-free inner wall. Corrosion protection class 4 (high).
Classification according to DIN EN 61386-1: 555711404010

Stainless steel pipe, V4A

VA 2B
E30 E90


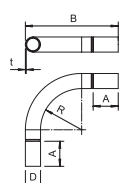
Type	Dim. D mm	Dim. L mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
S16W A4	16	3000	1	15	37.000	2046750
S20W A4	20	3000	1	15	46.900	2046751
S25W A4	25	3000	1	15	59.200	2046752
S32W A4	32	3000	1.2	15	91.200	2046753
S40W A4	40	3000	1.2	9	114.800	2046754
S50W A4	50	3000	1.5	9	179.400	2046755
S63W A4	63	3000	1.5	9	227.500	2046756

price/100 m

5 | 5 | 5 | 7 | 1

Electrical installation pipe without threaded ends to EN 61386-1 for mechanical protection of cables. With burr-free inner wall. Corrosion protection class 4 (high).

Stainless steel pipe bend, V4A

VA 2B
E30 E90


Type	Dim. A mm	Dim. B mm	Dim. D mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SB16W A4	54	104	18.2	50	1	5	7.200	2046760
SB20W A4	66	156	22.2	90	1	10	13.300	2046761
SB25W A4	81.5	194	27.2	112.5	1	10	20.400	2046762
SB32W A4	104	250	34.7	146	1.25	10	42.000	2046763
SB40W A4	129	294	42.7	165	1.25	5	61.200	2046764
SB50W A4	158	408	52.7	250	1.25	5	79.500	2046765
SB63W A4	198	448	65.7	250	1.25	3	144.600	2046766

/100 pc.

90° bend with moulded sleeves, for electrical installation pipes according to EN 61386-1. With burr-free inner wall.



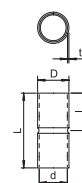
VA	2B
E30	E90

Stainless steel sleeve V4A

Type	Dim. D mm	Dim. d mm	Dim. L mm	Dim. l mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SV16W A4	18.2	16.2	50	25	1	10	2.100	2046770
SV20W A4	22.2	20.2	60	30	1	15	3.200	2046771
SV25W A4	27.2	25.2	60	30	1	15	3.900	2046772
SV32W A4	34.7	32.2	70	35	1.25	15	7.300	2046773
SV40W A4	42.7	40.2	80	40	1.25	10	10.300	2046774
SV50W A4	52.8	50.2	100	50	1.3	5	16.700	2046775
SV63W A4	65.8	63.2	100	50	1.3	3	20.900	2046776

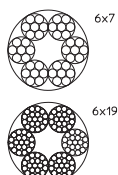
/100 pc.

Accessory part: plug-in sleeve for the connections between electrical installation pipes. With burr-free inner wall.



Steel wire tensioning rope

VA 2B



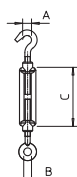
Type	Cable dia- meter mm	Break load kN	In rings m	Pack m	Weight kg/100 m	Item no.
957 2 A4	2	2.35	50	50	1.430	5303179
957 3 A4	3	5.29	50	50	3.220	5303182
957 4 A4	4	9.41	50	50	5.720	5303185
957 5 A4	5	14.7	50	50	8.940	5303188
957 6 A4	6	21.1	50	50	12.900	5303191
957 8 A4	8	34.8	50	50	22.900	5303194
957 10 A4	10	54.4	50	50	35.700	5303197

price/100 m

Cable Ø 2–6 mm: round-stranded cable 6 x 7 according to DIN 3055.
Cable Ø 8–10 mm: round-stranded cable 6 x 19 according to DIN 3060.
Minimum break force 1,770 N/mm².

Tension jack

VA 2B



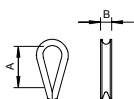
Type	Thread	Dim. A mm	Dim. B mm	Dim. C mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
945 M6 A4	M6	9	8.5	110	2.25	5	10.500	5300120
945 M10 A4	M10	14	13.5	125	7	5	28.000	5300124
945 M12 A4	M12	16	15.5	125	7.5	5	42.000	5300127
945 M16 A4	M16	22	19	170	12	5	100.000	5300132

/100 pc.

With hook and eye, to DIN 1480.

Cable eye stiffener

VA 2B



Type	For rope-Ø mm	Dim. A mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
946 3 A4	3	23.5	3.5	25	0.210	5301170
946 4 A4	4	28.5	5	25	0.390	5301172
946 5 A4	5	30	6	25	0.660	5301174
946 6 A4	6	33	7	25	0.840	5301176
946 8 A4	8	39	9	10	1.880	5301180
946 10 A4	10	47.5	11	10	2.900	5301184

/100 pc.

Cable eye stiffener to DIN 65457.



VA 2B

Tensioning wire clip

Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
1020 11-16 A4	11-16	50	1.420	1404168
1020 14-18 A4	14-18	50	1.650	1404184
1020 18-28 A4	19-28	50	2.000	1404292

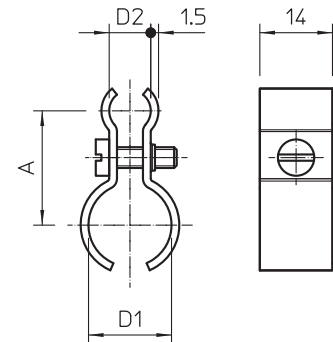
/100 pc.

To fasten cables to tensioning cables. With V4A bolt M4x14.



Type	Clamping range D mm	For rope-Ø mm	Dim. A mm	Bolt
1020 11-16 A4	11-16	4-9	22	M4x14
1020 14-18 A4	14-18	4-9	26	M4x14
1020 18-28 A4	19-28	4-9	34	M4x14

Dimensions



VA 2B

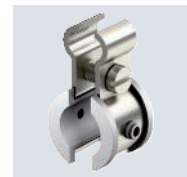


Fix ISO tensioning wire clip

Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
4021 K 6-13 A4	6-13	100	1.295	2307622
4021 K 9-16 A4	9-16	100	1.457	2307638

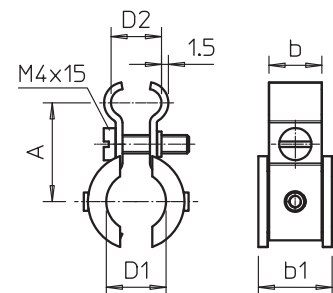
/100 pc.

The cable and pipe fastenings of the special system include cable ties, fastening straps and installation strips, with which cable and pipe installations can be fastened to cable support systems such as cable or mesh cable trays or other mounting constructions. A complete tensioning wire system to suspend and catch cable weights is also a component part of the special system.



Type	Clamping range D mm	For rope-Ø mm	Dim. A mm	Bolt
4021 K 6-13 A4	6-13	4-9	21.5	M4x16
4021 K 9-16 A4	9-16	4-9	26	M4x16

Dimensions



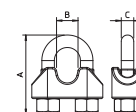
VA 2B

Wire cable clamp

Type	For rope-Ø mm	Dim. A mm	Dim. B mm	Dim. C mm	Pack Piece	Weight kg/100 pc.	Item no.
947 3 A4	3	20	4	4	25	1.090	5302170
947 5 A4	5	24	6	5	25	1.500	5302174
947 6 A4	6	28	8	5	25	2.080	5302178
947 8 A4	8	34	9	6	10	3.390	5302182
947 10 A4	10	42	11	8	10	6.310	5302188

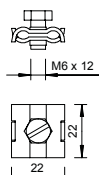
/100 pc.

Wire cable clamp for fastening steel wire tensioning ropes.



Wire cable clamp

VA 2B

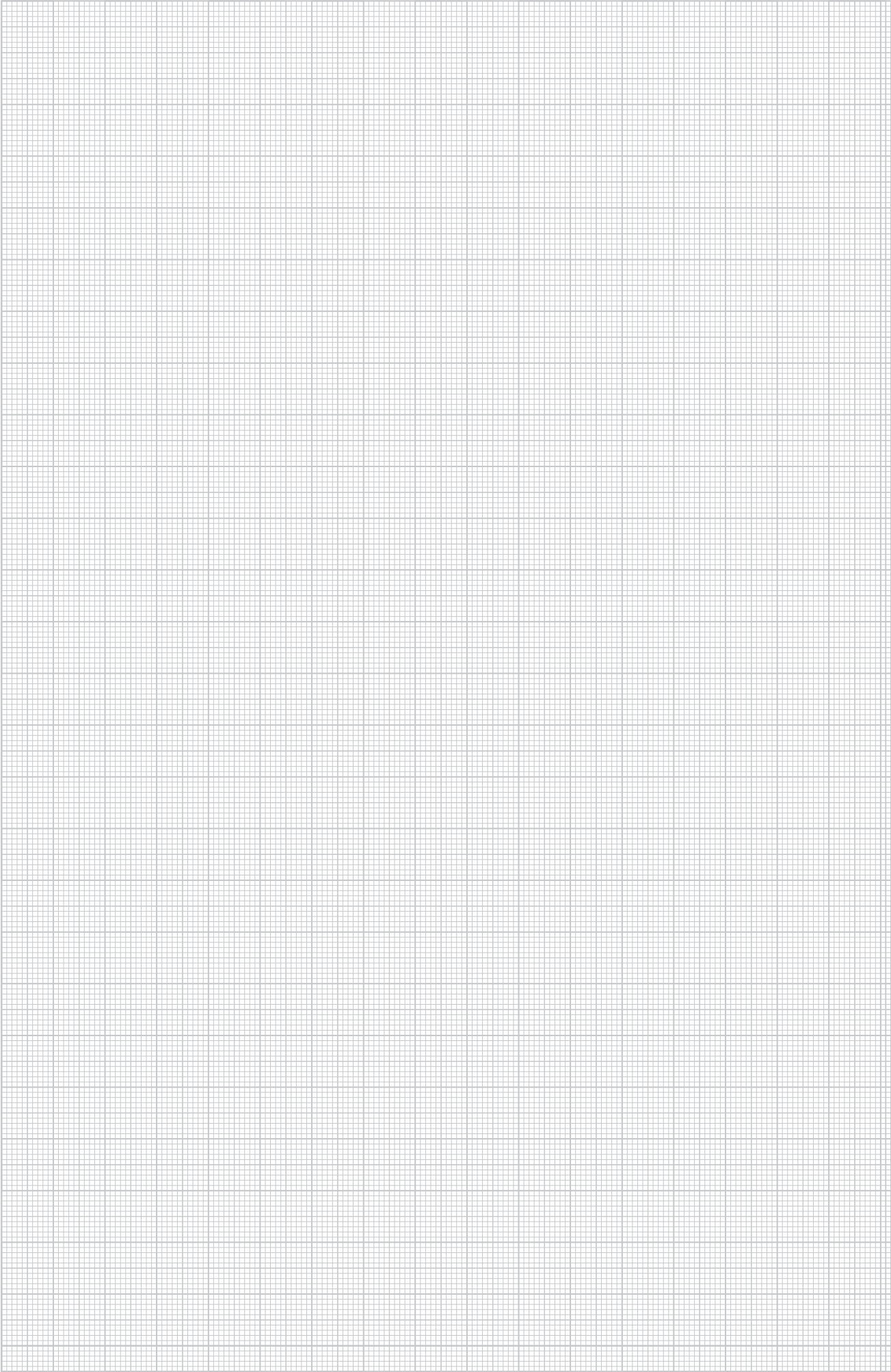


Type	For rope-Ø mm	Bolt	Pack	Weight	Item no.
			Piece	kg/100 pc.	
261 3-6 A4	3-6	M6x12	100	1.498	5305016

/100 pc.

The cable and pipe fastenings of the special system include cable ties, fastening straps and installation strips, with which cable and pipe installations can be fastened to cable support systems such as cable or mesh cable trays or other mounting constructions. A complete tensioning wire system to suspend and catch cable weights is also a component part of the special system.





Support structures

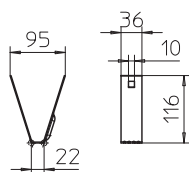
Support structures

	Suspensions and clamps	28
	Supports	30
	Bracket	46
	Clamp fastenings	62
	Construction and profile rail systems	66
	Screw and fastening systems	76
	Anchor systems	82



Ceiling bracket, trapezoidal

VA 2B



Type	Material thickness mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB 100 A2	1.5	0.8	20	9.900	6357516

/pc.

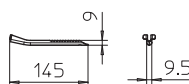
Trapezoidal fastening for suspended mounting of cable support systems on standard trapezoidal ceilings.

Important: Observe the statics of the trapezoidal metal ceiling.

When using the holes provided, the trapezoidal fastening can be mounted onto a trapezoidal profile width of up to approx. 80 mm. Fastening takes place with the type TPB R lock or a hexagonal bolt of type SKS 10x110.

Splint for trapezoidal ceiling bracket

VA 2B



Type	Material thickness mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB R A2	1.5	0.8	20	3.100	6357538

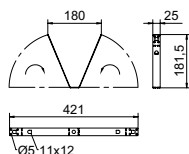
/pc.

Splint for fastening and securing the ceiling bracket to trapezoidal ceilings.

Important: Observe the statics of the trapezoidal metal ceiling.

Trapezoidal fastening

VA 2B



Type	Material thickness mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB 180 A2	1.5	0.8	20	11.400	6357524

VA VA 2B

Threaded rod

Type	Thread	Dim. d mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
TR M6 1M A2	M6	6	1000	10	18.300	3141327
TR M8 1M A2	M8	8	1000	10	30.000	3141310
TR M10 1M A2	M10	10	1000	10	49.000	3141312
TR M12 1M A2	M12	12	1000	10	70.000	3141314
TR M6 2M A2	M6	6	2000	10	36.600	3141328
TR M8 2M A2	M8	8	2000	10	60.000	3141330
TR M10 2M A2	M10	10	2000	10	98.000	3141339
TR M12 2M A2	M12	12	2000	10	140.000	3141316
TR M6 1M A4	M6	6	1000	50	18.300	3141482
TR M8 1M A4	M8	8	1000	50	30.000	3141492
TR M10 1M A4	M10	10	1000	25	49.000	3141502
TR M12 1M A4	M12	12	1000	20	70.000	3141512
TR M6 2M A4	M6	6	2000	25	36.600	3141484
TR M8 2M A4	M8	8	2000	25	60.000	3141494
TR M10 2M A4	M10	10	2000	20	98.000	3141504
TR M12 2M A4	M12	12	2000	10	140.000	3141514

/100 pc.

Threaded rod to DIN 976.

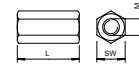
VA 2B

Connection sleeve

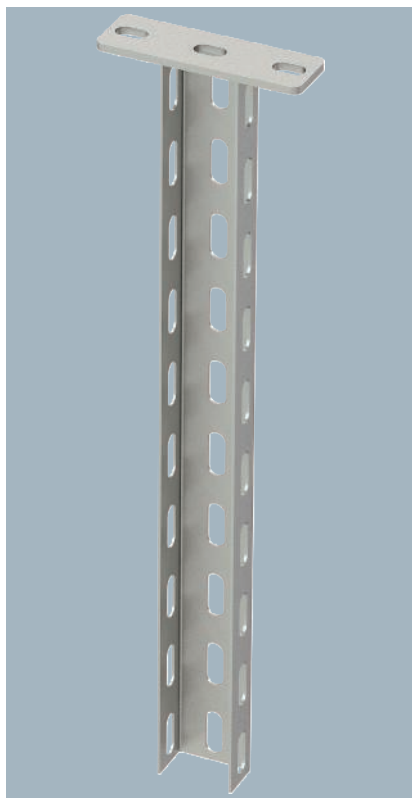
Type	Thread	Dim. L mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
CSTR M8 A2	M8	24	13	50	1.880	6410154
CSTR M10 A2	M10	30	17	50	4.150	6410162

/100 pc.

Connection sleeve with continuous internal thread.

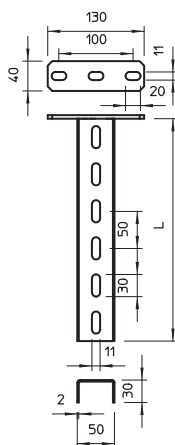


US 3 support



For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

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



Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
US 3 K 30 A2	300	2	5	1	58.000	6342403
US 3 K 40 A2	400	2	5	1	71.000	6342405
US 3 K 50 A2	500	2	5	1	84.000	6342407
US 3 K 60 A2	600	2	5	1	97.000	6342409
US 3 K 80 A2	800	2	5	1	123.000	6342413
US 3 K 100 A2	1000	2	5	1	150.000	6342417

/pc.

Load

Testing of the bending torque on the ceiling plate

Item on test	US 3 K 80
Deformation measuring point m	
Length L	800 mm
Force F	0.462 kN
Bending torque M1 (SWL)	370 Nm

According to IEC 61537, Chapter 10.8.2.1

Testing of the tensile strength

Item on test	US 3 K 80
Deformation measuring point m	
Force F (SWL)	20 kN

According to IEC 61537, Chapter 10.8.2.2

Testing of the bending torque on the support with bracket

Item on test	US 3 K 80	US 3 K 120
	AW 15 31	AW 15 31
Deformation measuring point m		
A1 lever arm	310 mm	310 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	0.947 kN	0.790 kN
Bending torque M2 (SWL)	180 Nm	150 Nm

According to IEC 61537, Chapter 10.8.2.3

Testing of the bending torque on the support with bracket with spacer

Item on test	US 3 K 80	US 3 K 120
	AW 15 61	AW 15 61
Deformation measuring point m		
A1 lever arm	610 mm	610 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	0.850 kN	0.850 kN
Bending torque M2 (SWL)	290 Nm	290 Nm

According to IEC 61537, Chapter 10.8.2.3, without spacer

US 3 support

Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
US 3 K 30 A4	300	2	5	1	58.000	6342530
US 3 K 40 A4	400	2	5	1	71.000	6342379
US 3 K 50 A4	500	2	5	1	84.000	6342381
US 3 K 60 A4	600	2	5	1	97.000	6342389
US 3 K 80 A4	800	2	5	1	123.000	6342393
US 3 K 100 A4	1000	2	5	1	150.000	6342397
US 3 K 120 A4	1200	2	5	1	110.000	6342398

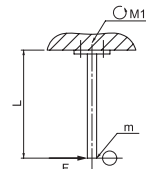
/pc.

Load

Testing of the bending torque on the ceiling plate

Item on test	US 3 K 80
Deformation measuring point m	
Length L	800 mm
Force F	0.462 kN
Bending torque M1 (SWL)	370 Nm

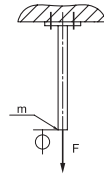
According to IEC 61537, Chapter 10.8.2.1



Testing of the tensile strength

Item on test	US 3 K 80
Deformation measuring point m	
Force F (SWL)	20 kN

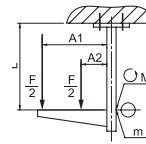
According to IEC 61537, Chapter 10.8.2.2



Testing of the bending torque on the support with bracket

Item on test	US 3 K 80	US 3 K 120
Deformation measuring point m	AW 15 31	AW 15 31
A1 lever arm	310 mm	310 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	0.947 kN	0.790 kN
Bending torque M2 (SWL)	180 Nm	150 Nm

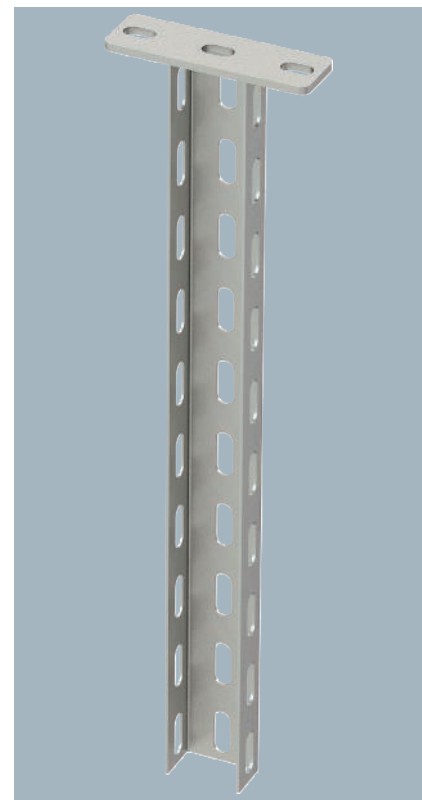
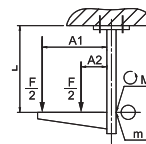
According to IEC 61537, Chapter 10.8.2.3



Testing of the bending torque on the support with bracket with spacer

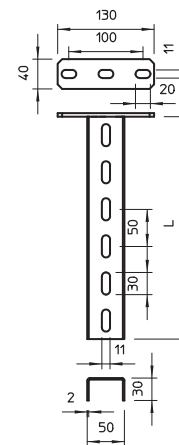
Item on test	US 3 K 80	US 3 K 120
Deformation measuring point m	AW 15 61	AW 15 61
A1 lever arm	610 mm	610 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	0.850 kN	0.850 kN
Bending torque M2 (SWL)	290 Nm	290 Nm

According to IEC 61537, Chapter 10.8.2.3, without spacer

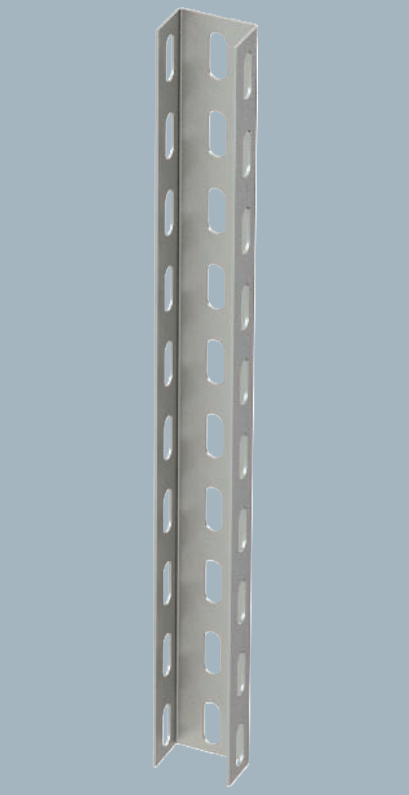


For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

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



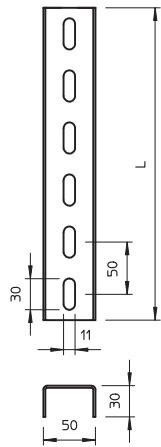
US 3 support



Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
US 3 30 A2	300	2	1	42.200	6342455
US 3 50 A2	500	2	1	66.000	6342457
US 3 100 A2	1000	2	1	132.000	6342460
US 3 150 A2	1500	2	1	198.000	6342463
US 3 200 A2	2000	2	1	263.000	6342466
US 3 600 A2	6000	2	1	790.000	6342468

/pc.

U support in fixed lengths. Dimensions 30 x 50 mm.
For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

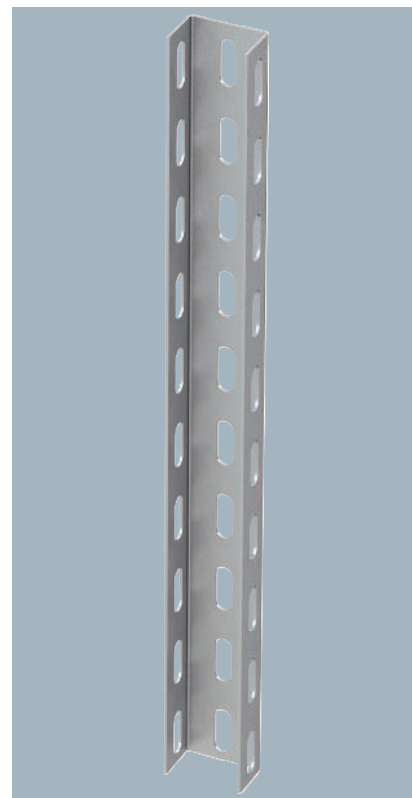


VA 2B

US 3 support

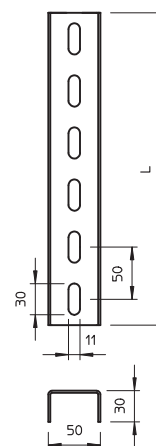
Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
US 3 30 A4	300	2	1	40.000	6342485
US 3 50 A4	500	2	1	66.000	6342488
US 3 100 A4	1000	2	1	132.000	6342491
US 3 150 A4	1500	2	1	198.000	6342494
US 3 200 A4	2000	2	1	263.000	6342497
US 3 600 A4	6000	2	1	790.000	6342505

/pc.



U support in fixed lengths. Dimensions 30 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.



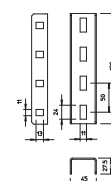
VA VA 2B

VUS 3 U support connector

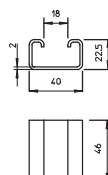
Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 3 A2	1	48.200	6018517
VUS 3 A4	1	48.200	6018520

/pc.

U support connector to connect US 3 supports.
Including appropriate fastening material.



DSK 25 spacer

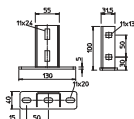


Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 25 A2	10	7.500	6416448
DSK 25 A4	10	7.500	6416450

/pc.

Spacer for use in US 3 supports.

Head plate



Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 3 A2	10	41.000	6348876
KU 3 A4	10	40.700	6348877

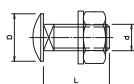
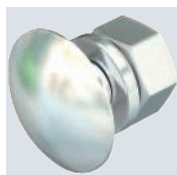
/pc.

The head plate can be mounted to fixed lengths of the U support, type US 3.

Including appropriate fastening material.

Head plate for mounting on US 3 supports.

Truss-head bolt with nut and washer

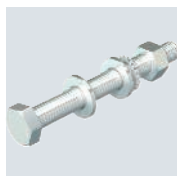


Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRS 10x25 A2	M 10x25	25	10	24	A2-70	50	3.905	6406718
FRS 12x25 A2	M 12x25	25	12	30	A2-70	25	6.400	6406750
FRS 10x25 A4	M 10x25	25	10	24	A4-70	50	4.500	6407524

/100 pc.

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

Hexagonal bolt with nut and washer



Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. SW mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 10x90 A2	M 10x90	90	10	17	A2-70	20	10.038	6418255
SKS 10x80 A4	M 10x80	80	10	17	A4-70	20	7.800	6418248
SKS 10x90 A4	M 10x90	90	10	17	A4-70	20	7.800	6418256

/100 pc.

Hexagonal bolt for universal fixing of structure components.

US 5 support

Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
US 5 K 30 A2	300	2.5	10	1	125.000	6341362
US 5 K 40 A2	400	2.5	10	1	150.000	6341366
US 5 K 60 A2	600	2.5	10	1	200.000	6341374
US 5 K 80 A2	800	2.5	10	1	255.000	6341382
US 5 K 100 A2	1000	2.5	10	1	300.000	6341390
US 5 K 120 A2	1200	2.5	10	1	360.000	6341398

/pc.

Load

Testing of the bending torque on the ceiling plate

Item on test	US 5 K 80
Deformation measuring point m	
Length L	800 mm
Force F	0.950 kN
Bending torque M1 (SWL)	760 Nm

According to IEC 61537, Chapter 10.8.2.1

Testing of the tensile strength

Item on test	US 5 K 80
Deformation measuring point m	
Force F (SWL)	26 kN

According to IEC 61537, Chapter 10.8.2.2

Testing of the bending torque on the support with bracket

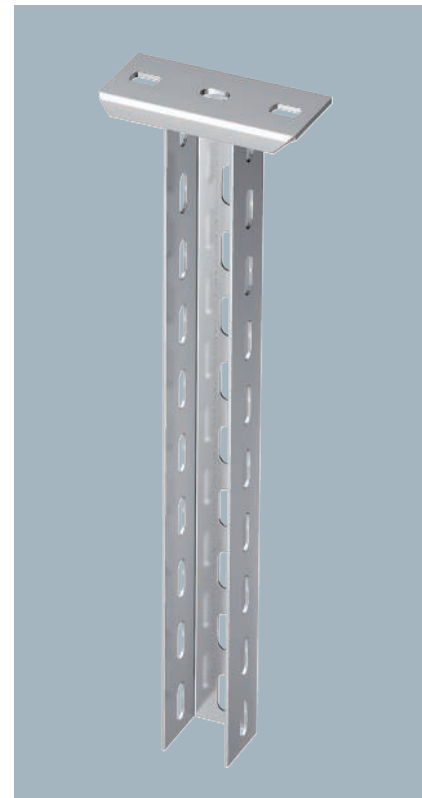
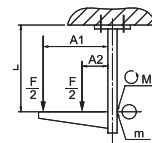
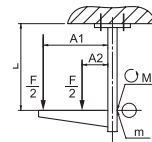
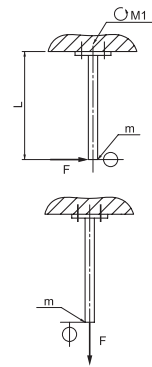
Item on test	US 5 K 80	US 5 K 120
Deformation measuring point m	AW 30 31	AW 30 31
A1 lever arm	310 mm	310 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	1.253 kN	1.358 kN
Bending torque M2 (SWL)	240 Nm	260 Nm

According to IEC 61537, Chapter 10.8.2.3

Testing of the bending torque on the support with bracket with spacer

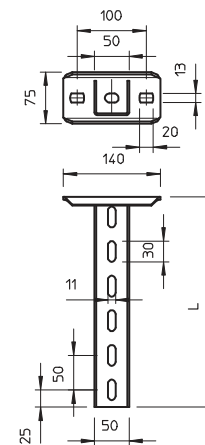
Item on test	US 5 K 80	US 5 K 120
Deformation measuring point m	AW 30 71	AW 30 71
A1 lever arm	710 mm	710 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	1.272 kN	0.950 kN
Bending torque M2 (SWL)	500 Nm	430 Nm

According to IEC 61537, Chapter 10.8.2.3



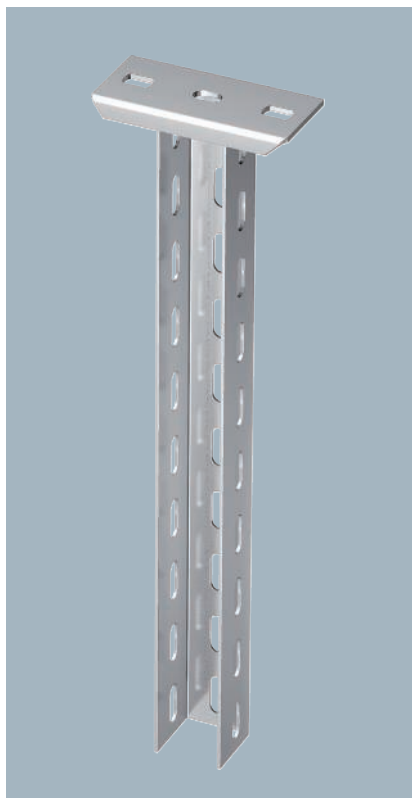
Suspended support (U profile) with welded head plate.

For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.



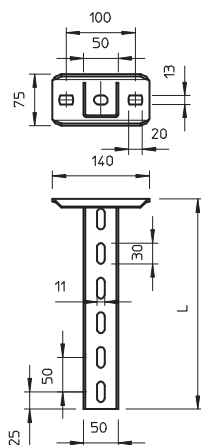
US 5 support

VA 2B



Suspended support (U profile) with welded head plate.

For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.



Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
US 5 K 30 A4	300	2.5	10	1	125.000	6341213
US 5 K 40 A4	400	2.5	10	1	150.000	6341217
US 5 K 60 A4	600	2.5	10	1	180.000	6341225
US 5 K 80 A4	800	2.5	10	1	255.000	6341233
US 5 K 100 A4	1000	2.5	10	1	300.000	6341241
US 5 K 120 A4	1200	2.5	10	1	360.000	6341249

/pc.

Load

Testing of the bending torque on the ceiling plate

Item on test	US 5 K 80
Deformation measuring point m	
Length L	800 mm
Force F	0.950 kN
Bending torque M1 (SWL)	760 Nm

According to IEC 61537, Chapter 10.8.2.1

Testing of the tensile strength

Item on test	US 5 K 80
Deformation measuring point m	
Force F (SWL)	26 kN

According to IEC 61537, Chapter 10.8.2.2

Testing of the bending torque on the support with bracket

Item on test	US 5 K 80	US 5 K 120
	AW 30 31	AW 30 31
Deformation measuring point m		
A1 lever arm	310 mm	310 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	1.253 kN	1.358 kN
Bending torque M2 (SWL)	240 Nm	260 Nm

According to IEC 61537, Chapter 10.8.2.3

Testing of the bending torque on the support with bracket with spacer

Item on test	US 5 K 80	US 5 K 120
	AW 30 71	AW 30 71
Deformation measuring point m		
A1 lever arm	710 mm	710 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	1.272 kN	0.950 kN
Bending torque M2 (SWL)	500 Nm	430 Nm

According to IEC 61537, Chapter 10.8.2.3

VA 2B

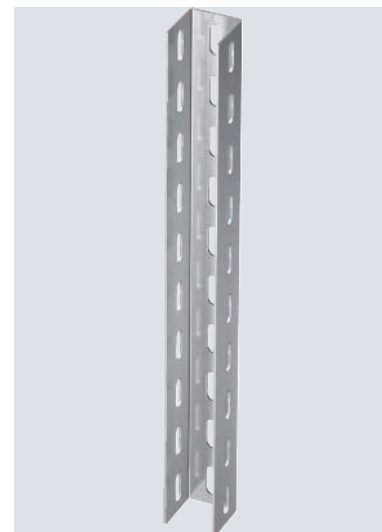
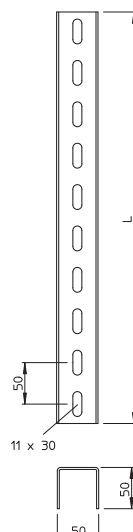
US 5 support

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
US 5 20 A2	200	2.5	1	48.000	6341101
US 5 30 A2	300	2.5	1	72.000	6341105
US 5 40 A2	400	2.5	1	97.000	6341109
US 5 50 A2	500	2.5	1	121.000	6341113
US 5 60 A2	600	2.5	1	145.000	6341117
US 5 70 A2	700	2.5	1	169.000	6341121
US 5 80 A2	800	2.5	1	193.000	6341125
US 5 90 A2	900	2.5	1	217.000	6341129
US 5 100 A2	1000	2.5	1	242.000	6341133
US 5 110 A2	1100	2.5	1	266.000	6341137
US 5 120 A2	1200	2.5	1	290.000	6341141
US 5 300 A2	3000	2.5	1	737.000	6341152

/pc.

U support in fixed lengths. Dimensions 50 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.



VA 2B

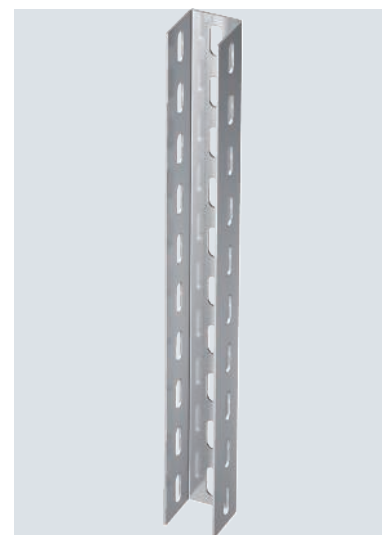
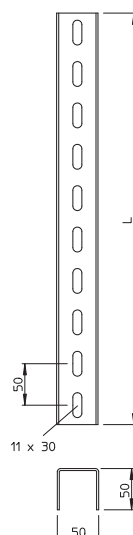
US 5 support

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
US 5 30 A4	300	2.5	1	73.000	6341053
US 5 40 A4	400	2.5	1	97.000	6341055
US 5 50 A4	500	2.5	1	121.000	6341057
US 5 60 A4	600	2.5	1	145.000	6341059
US 5 80 A4	800	2.5	1	193.000	6341063
US 5 90 A4	900	2.5	1	217.000	6341065
US 5 300 A4	3000	2.5	1	737.000	6341073

/pc.

U support in fixed lengths. Dimensions 50 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.



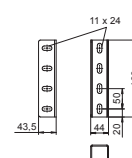
VA 2B

U support connector VUS 5

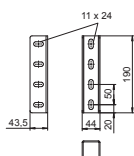
Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 5 A2	1	64.800	6018512

U support connector to connect US 5 supports.

Including appropriate fastening material.



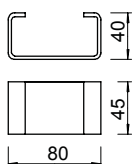
VA 2B



/pc.

U support connector to connect US 5 supports.
Including appropriate fastening material.

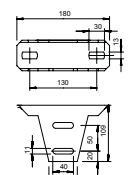
VA VA 2B



/pc.

For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the hexagonal bolts.

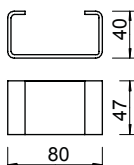
VA	VA	2B
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/pc.

Variable head plate for installation on US 5 support.
The spacer, type DSK 47, is used to install the head plate.

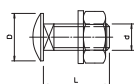
VA VA 2B



/pc.

For static reasons, the spacer is always used to increase stability to prevent the head plate from deforming when the bolts are tightened.

VA VA 2B

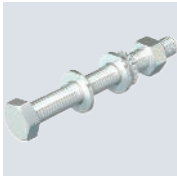
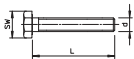
/100 pc.

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

VA 2B

Hexagonal bolt with nut and washer

Type	Dimen- sion mm	Dim. L mm	Dim. d mm	SW mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 10x80 A4	M 10x80	80	10	17	A4-70	20	7.800	6418248
SKS 10x90 A4	M 10x90	90	10	17	A4-70	20	7.800	6418256

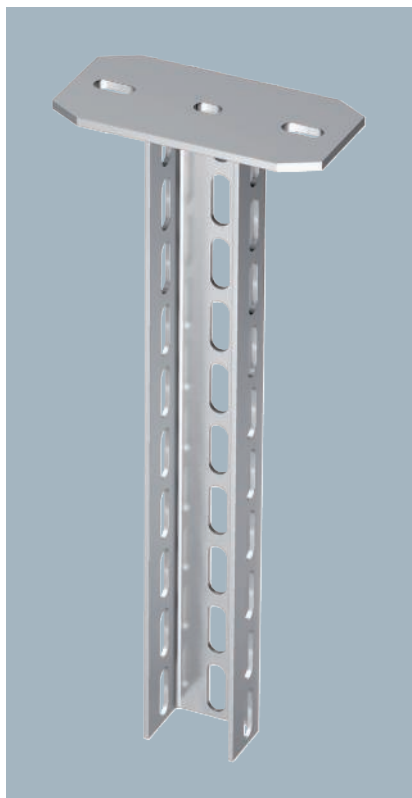


/100 pc.

Hexagonal bolt for universal fixing of structure components.

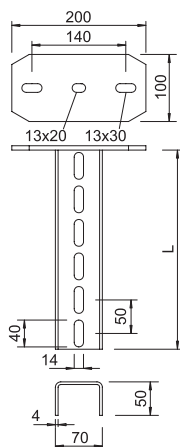
US 7 support

VA 2B



Suspended support (U profile) with welded head plate.

For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.



Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
US 7 K 30 A2	300	4	11	1	213.000	6338615
US 7 K 40 A2	400	4	11	1	256.000	6338623
US 7 K 60 A2	600	4	11	1	337.000	6338658
US 7 K 80 A2	800	4	11	1	410.000	6338674
US 7 K 100 A2	1000	4	11	1	491.000	6338690
US 7 K 120 A2	1200	4	11	1	571.000	6338712

/pc.

Load

Testing of the bending torque on the ceiling plate

Item on test	US 7 K 80
Deformation measuring point m	
Length L	800 mm
Force F	2.250 kN
Bending torque M1 (SWL)	1,800 Nm

According to IEC 61537, Chapter 10.8.2.1

Testing of the tensile strength

Item on test	US 7 K 80
Deformation measuring point m	
Force F (SWL)	45 kN

According to IEC 61537, Chapter 10.8.2.2

Testing of the bending torque on the support with bracket

Item on test	US 7 K 80	US 7 K 120	US 7 K 170
	AW 30 31	AW 30 31	AW 30 31
Deformation measuring point m			
A1 lever arm	310 mm	310 mm	310 mm
A2 lever arm	10 mm	10 mm	10 mm
Length L	500 mm	1,000 mm	1,500 mm
Force F	2.169 kN	2.169 kN	1.985 kN
Bending torque M2 (SWL)	437 Nm	437 Nm	400 Nm

According to IEC 61537, Chapter 10.8.2.3

Testing of the bending torque on the support with bracket with spacer

Item on test	US 7 K 80	US 7 K 120	US 7 K 170
	AW 55 81	AW 55 81	AW 55 81
Deformation measuring point m			
A1 lever arm	810 mm	810 mm	810 mm
A2 lever arm	10 mm	10 mm	10 mm
Length L	500 mm	1,000 mm	1,500 mm
Force F	3.348 kN	2.659 kN	2.079 kN
Bending torque M2 (SWL)	1,530 Nm	1,530 Nm	1,530 Nm

According to IEC 61537, Chapter 10.8.2.3

US 7 support

Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
US 7 K 30 A4	300	4	11	1	216.000	6338858
US 7 K 40 A4	400	4	11	1	256.000	6338860
US 7 K 60 A4	600	4	11	1	337.000	6338864
US 7 K 80 A4	800	4	11	1	417.000	6338868
US 7 K 100 A4	1000	4	11	1	500.000	6338872
US 7 K 120 A4	1200	4	11	1	578.000	6338876

Load

Testing of the bending torque on the ceiling plate

Item on test	US 7 K 80
Deformation measuring point m	
Length L	800 mm
Force F	2.250 kN
Bending torque M1 (SWL)	1,800 Nm

According to IEC 61537, Chapter 10.8.2.1

Testing of the tensile strength

Item on test	US 7 K 80
Deformation measuring point m	
Force F (SWL)	45 kN

According to IEC 61537, Chapter 10.8.2.2

Testing of the bending torque on the support with bracket

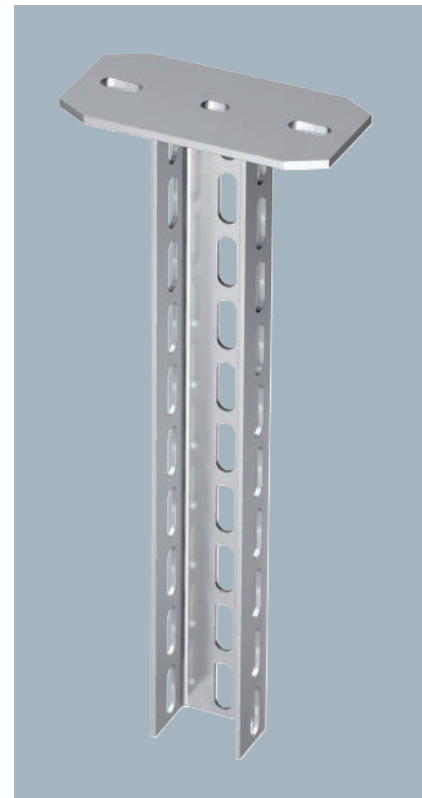
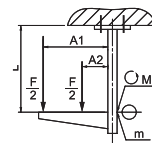
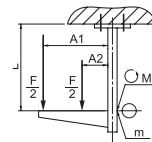
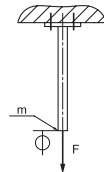
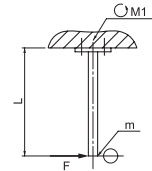
Item on test	US 7 K 80	US 7 K 120	US 7 K 170
	AW 30 31	AW 30 31	AW 30 31
Deformation measuring point m			
A1 lever arm	310 mm	310 mm	310 mm
A2 lever arm	10 mm	10 mm	10 mm
Length L	500 mm	1,000 mm	1,500 mm
Force F	2.169 kN	2.169 kN	1.985 kN
Bending torque M2 (SWL)	437 Nm	437 Nm	400 Nm

According to IEC 61537, Chapter 10.8.2.3

Testing of the bending torque on the support with bracket with spacer

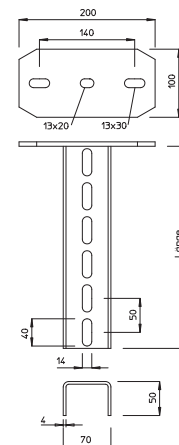
Item on test	US 7 K 80	US 7 K 120	US 7 K 170
	AW 55 81	AW 55 81	AW 55 81
Deformation measuring point m			
A1 lever arm	810 mm	810 mm	810 mm
A2 lever arm	10 mm	10 mm	10 mm
Length L	500 mm	1,000 mm	1,500 mm
Force F	3.348 kN	2.659 kN	2.079 kN
Bending torque M2 (SWL)	1,530 Nm	1,530 Nm	1,530 Nm

According to IEC 61537, Chapter 10.8.2.3



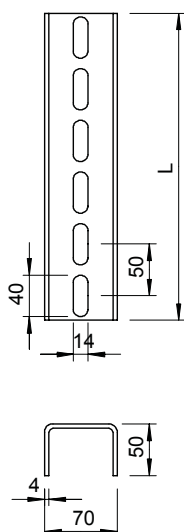
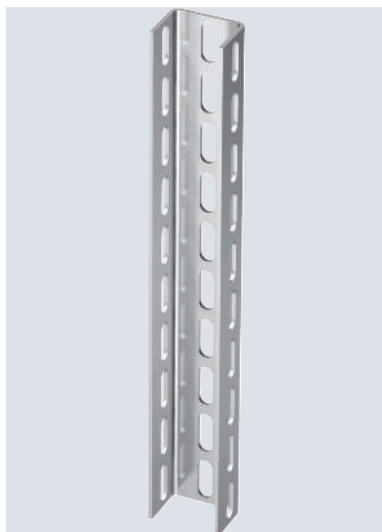
Suspended support (U profile) with welded head plate.

For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.



US 7 support

VA 2B



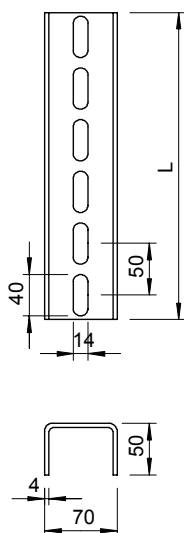
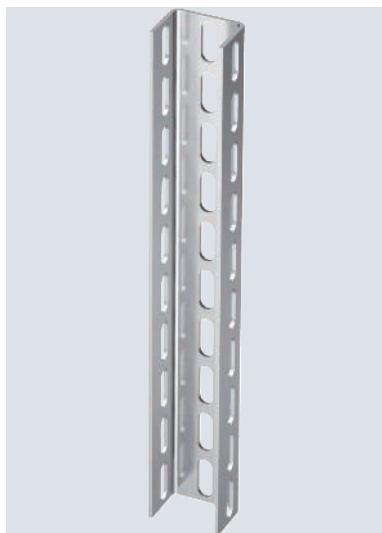
Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
US 7 20 A2	200	4	1	78.400	6341721
US 7 30 A2	300	4	1	117.600	6341748
US 7 40 A2	400	4	1	156.800	6341756
US 7 50 A2	500	4	1	196.100	6341764
US 7 60 A2	600	4	1	235.300	6341772
US 7 70 A2	700	4	1	274.500	6341780
US 7 80 A2	800	4	1	313.700	6341799
US 7 90 A2	900	4	1	352.900	6341802
US 7 100 A2	1000	4	1	392.100	6341810
US 7 110 A2	1100	4	1	431.300	6341829
US 7 120 A2	1200	4	1	486.000	6341837
US 7 150 A2	1500	4	1	588.200	6341861
US 7 200 A2	2000	4	1	784.200	6341950
US 7 300 A2	3000	4	1	1,176.300	6341969
US 7 600 A2	6000	4	1	2,433.000	6341993

U support in fixed lengths. Dimensions 70 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

US 7 support

VA 2B



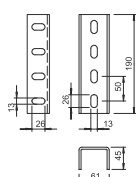
Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
US 7 30 A4	300	4	1	121.000	6341750
US 7 40 A4	400	4	1	161.000	6341758
US 7 50 A4	500	4	1	201.000	6341766
US 7 60 A4	600	4	1	242.000	6341774
US 7 80 A4	800	4	1	322.000	6341800
US 7 90 A4	900	4	1	363.000	6341804
US 7 300 A4	3000	4	1	1,176.300	6341970

U support in fixed lengths. Dimensions 70 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

VUS 7 U support connector

VA VA 2B



Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 7 A2	1	110.900	6018408
VUS 7 A4	1	115.800	6018412

/pc.

U support connector to connect US 7 supports.
Including appropriate fastening material.

VA VA 2B

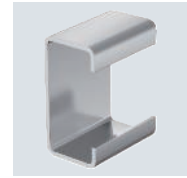
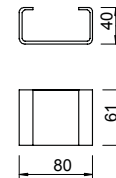
DSK 61 spacer

Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 61 A2	10	20.200	6416527
DSK 61 A4	10	20.200	6416533

/pc.

Spacer for use in US 7 supports.

For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the hexagonal bolts.



VA VA 2B

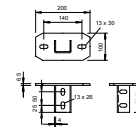
Head plate, heavy duty

Type	Pack Piece	Weight kg/100 pc.	Item no.
KUS 7 A2	1	140.000	6349277
KUS 7 A4	1	140.000	6349279

/pc.

Heavy duty head plate for installation in US 7 supports.

Please order fastening material (two truss-head bolts FRS 12 x 25) separately.



VA 2B

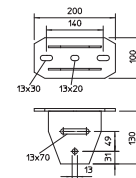
Head plate, variable

Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 7 VQP A2	1	180.700	6349196

/pc.

Variable head plate for installation on US 7 support.

Please order fastening material (two hexagonal bolts SKS 12 x 100 and spacer DSK 45) separately.



VA VA 2B

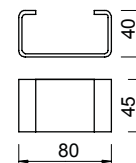
Spacer DSK 45

Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 45 A2	10	14.600	6416489
DSK 45 A4	10	14.600	6416462

/pc.

Spacer for use in US 5 supports.

For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the hexagonal bolts.



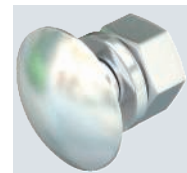
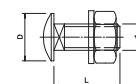
VA 2B

Truss-head bolt with nut and washer

Type	Dimen- sion mm	Dim. L mm	Dim. d mm	Dim. D mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRS 12x25 A2	M 12x25	25	12	30	A2-70	25	6.400	6406750

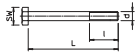
/100 pc.

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



Hexagonal bolt with hexagonal nut, washer and tooth lock washer

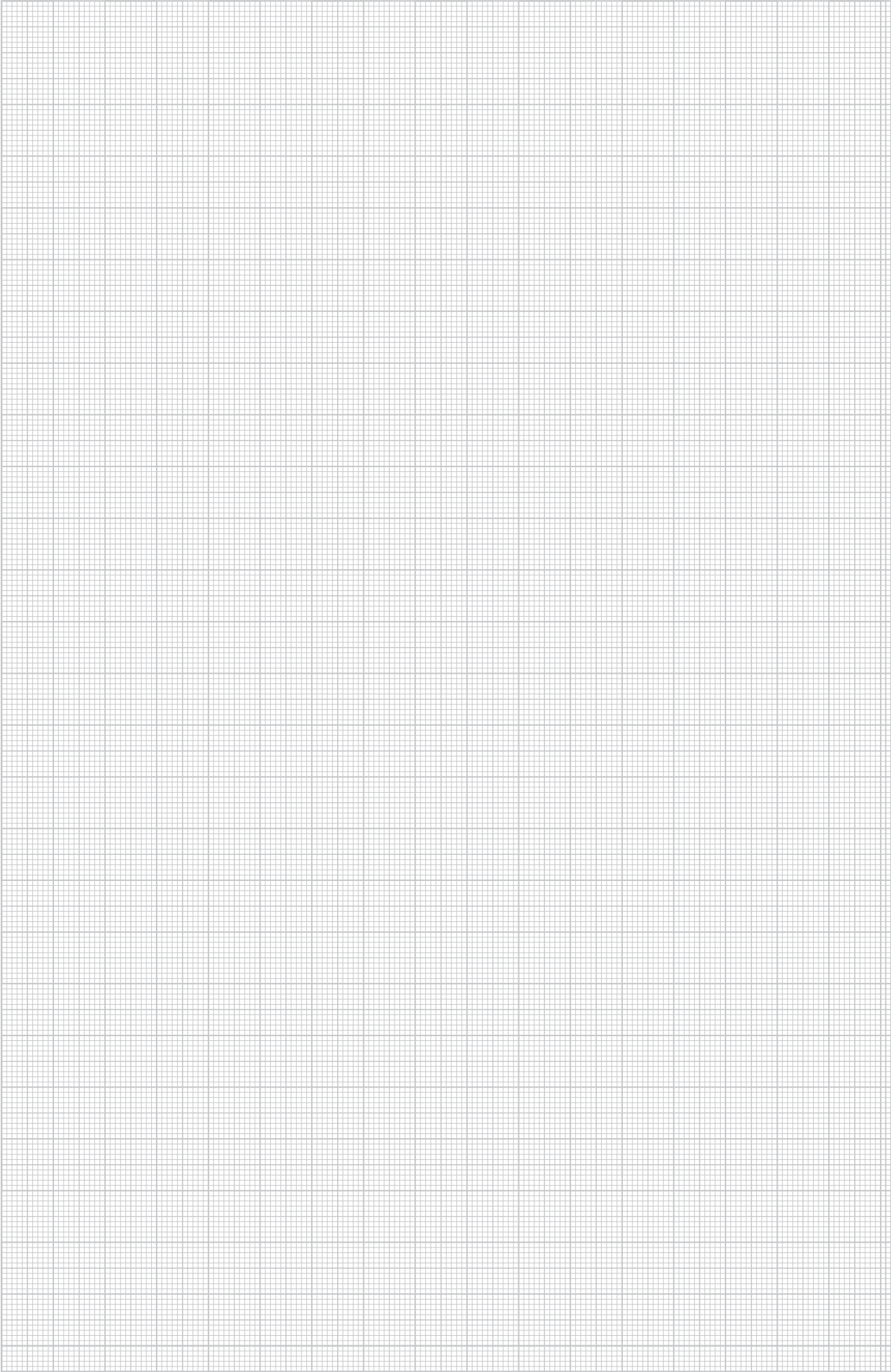
VA 2B



Type	Dimension mm	Dim. L mm	Dim. l mm	Dim. d mm	SW mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 12x80 A2	M 12x80	80	30	12	19	A2-70	20	10.400	6418279
SKS 12x100 A2	M 12x100	100	30	12	19	A2-70	20	12.000	6418368
SKS 12x110 A2	M 12x110	110	30	12	19	A2-70	20	14.500	6418376

/100 pc.

Hexagonal bolt for universal fixing of structure components.



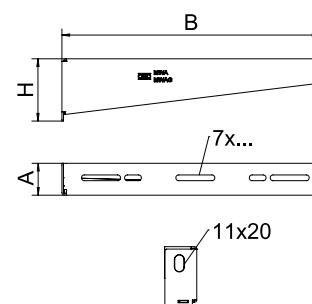
Wall and support bracket MWA 12

VA 2B



Type	Width mm	F in kN		Pack Piece	Weight kg/100 pc.	Item no.
MWA 12 11S A2	110	1.2		30	16.000	6424430
MWA 12 21S A2	210	1.2		30	26.900	6424432
MWA 12 31S A2	310	1.2		30	51.800	6424434
MWA 12 41S A2	410	1.2		30	69.200	6424436

Including truss-head bolt M10 x 25 for fastening to U supports.
Light-duty wall and support bracket.

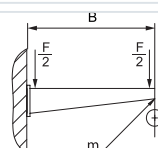


Load characteristics wall and support bracket MWA 12

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

Deformation measurement point m

According to IEC 61537, chapter 10.8.1



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

Characteristic anchor load values for wall and support bracket MWA 12 - Wall fastening

Max. load F [kN]				
Bracket width [mm]	110	210	310	410
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete.
The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

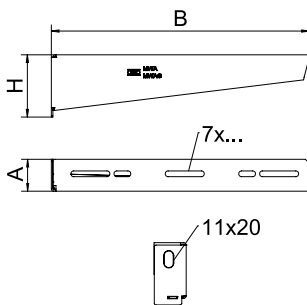
Load

Wall and support bracket MWA 12



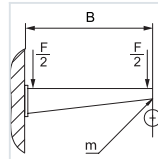
Including truss-head bolt M10 x 25 for fastening to U supports.

Light-duty wall and support bracket.



Type	Width mm	F in kN		Pack Piece	Weight kg/100 pc.	Item no.
MWA 12 11S A4	110	1.2		30	16.000	6424440
MWA 12 21S A4	210	1.2	🔥	30	26.900	6424442
MWA 12 31S A4	310	1.2	🔥	30	51.800	6424444
MWA 12 41S A4	410	1.2	🔥	30	69.200	6424446

Load



Load characteristics wall and support bracket MWA 12

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

Deformation measurement point m
According to IEC 61537, chapter 10.8.1

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

Characteristic anchor load values for wall and support bracket MWA 12 - Wall fastening

Max. load F [kN]	110	210	310	410
Bracket width [mm]				
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Wall and support bracket MWAG 12

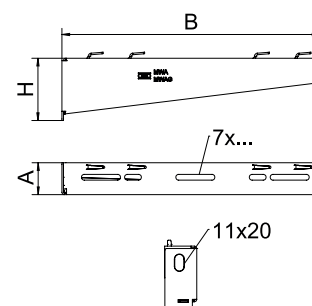
VA 2B



Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
MWAG 12 11 A2	110	1.2	30	16.000	6424400
MWAG 12 21 A2	210	1.2	30	26.900	6424402
MWAG 12 31 A2	310	1.2	30	51.800	6424404
MWAG 12 41 A2	410	1.2	25	69.200	6424406

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

Light-duty wall and support bracket with edged design for screw-less mesh cable tray fastening.



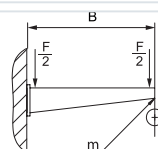
Characteristic load values for MWAG 12 wall and support bracket

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

Deformation measuring point m

According to IEC 61537, Chapter 10.8.1

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



Load

Characteristic anchor load values for MWAG 12 wall and support bracket – wall fastening

Load [kN]	110	210	310	410
Bracket width [mm]				
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete.

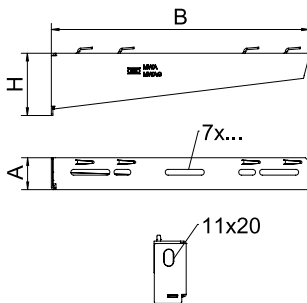
The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Wall and support bracket MWAG 12



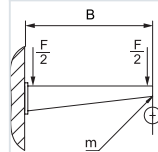
Including truss-head bolt M10 x 25 for fastening to U supports.

Light-duty wall and support bracket with edged design for screwless mesh cable tray fastening.



Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
MWAG 12 11 A4	110	1.2	30	16.000	6424410
MWAG 12 21 A4	210	1.2	30	26.900	6424412
MWAG 12 31 A4	310	1.2	30	51.800	6424414
MWAG 12 41 A4	410	1.2	25	69.200	6424416

Load



Characteristic load values for MWAG 12 wall and support bracket

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

Deformation measuring point m

According to IEC 61537, Chapter 10.8.1

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

Characteristic anchor load values for MWAG 12 wall and support bracket – wall fastening

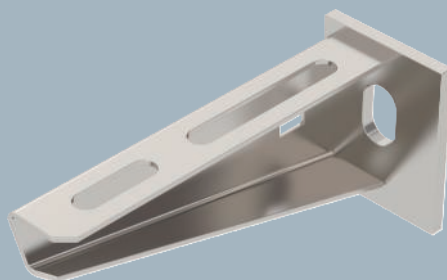
Load [kN]	110	210	310	410
Bracket width [mm]				
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete.

The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Wall and support bracket AW 15

VA 2B

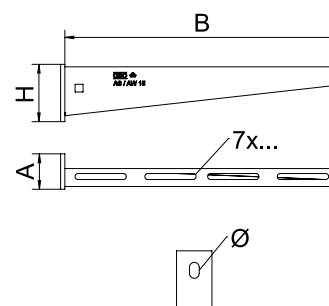


Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 15 11 A2	110	1.5	30	12.500	6421008
AW 15 21 A2	210	1.5	30	24.000	6421024
AW 15 31 A2	310	1.5	30	38.200	6421032
AW 15 41 A2	410	1.5	30	55.000	6421036
AW 15 51 A2	510	1.5	20	64.400	6421040
AW 15 61 A2	610	1.5	20	85.000	6421044

/pc.

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.



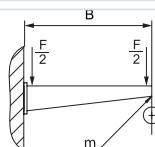
Characteristic anchor load values for wall bracket AW 15 - wall fastening

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

Deformation measuring point m

According to IEC 61537, Chapter 10.8.1

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



Load

Characteristic anchor load values for AW15 wall bracket – wall fastening

Load [kN]				
Bracket width [mm]	110%	210	310	410
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

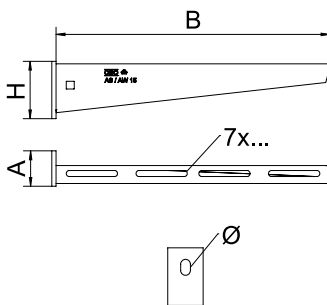
The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Wall and support bracket AW 15



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

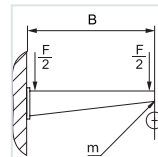
Light-duty wall and support bracket with welded head plate.



Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 15 11 A4	110	1.5	30	12.500	6392008
AW 15 21 A4	210	1.5	30	24.000	6392016
AW 15 31 A4	310	1.5	30	37.400	6392024
AW 15 41 A4	410	1.5	30	55.000	6392032
AW 15 51 A4	510	1.5	20	64.400	6392040
AW 15 61 A4	610	1.5	20	85.000	6392059

/pc.

Load



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

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

Deformation measuring point m

According to IEC 61537, Chapter 10.8.1

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

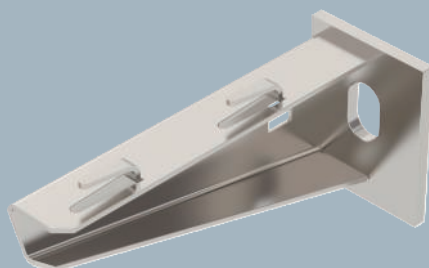
Characteristic anchor load values for AW15 wall bracket – wall fastening

Load [kN]				
Bracket width [mm]	110	210	310	410
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Wall and support bracket AWG 15

VA 2B



Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AWG 15 11 A2	110	1.5	30	13.000	6420625
AWG 15 21 A2	210	1.5	30	25.000	6420628
AWG 15 31 A2	310	1.5	30	33.000	6420631
AWG 15 41 A2	410	1.5	30	53.000	6420634
AWG 15 51 A2	510	1.5	20	65.000	6420637
AWG 15 61 A2	610	1.5	20	80.000	6420640

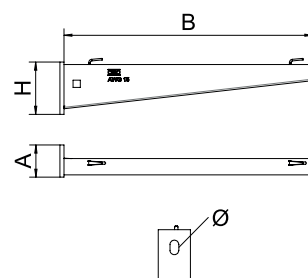
Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

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

/pc.

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

Dimensions



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

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

Deformation measuring point m

According to IEC 61537, Chapter 10.8.1

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

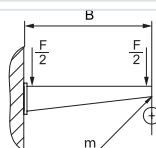
Characteristic anchor load values for AW G 15 wall bracket – wall fastening

Load [kN]				
Bracket width [mm]	110	210	310	410
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

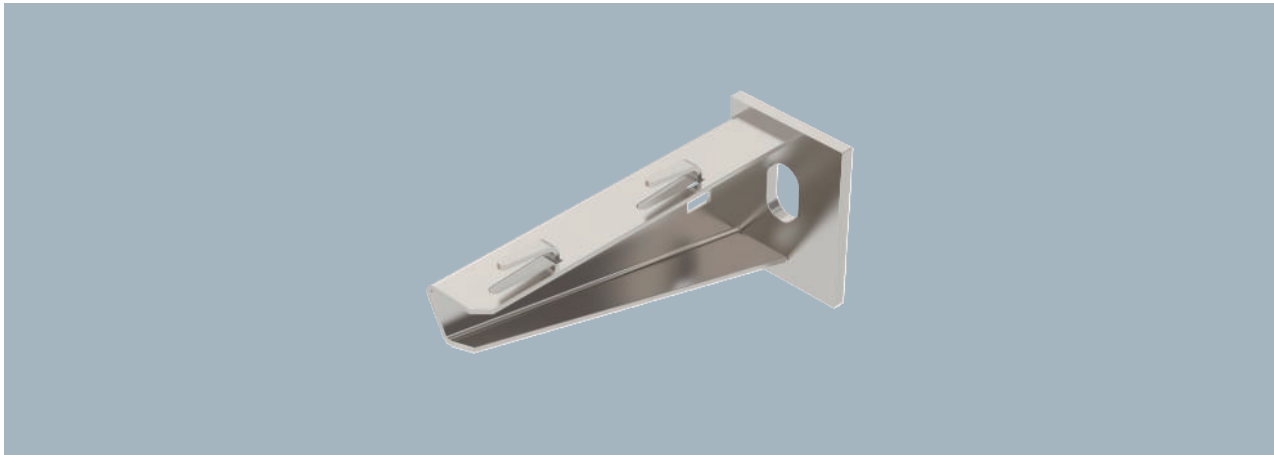
The load capacity values increase considerably when used in uncracked concrete.

The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Load



Wall and support bracket AWG 15



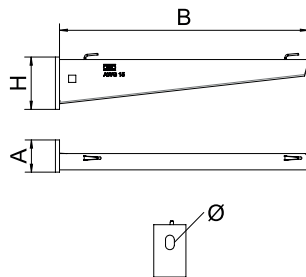
Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

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

Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AWG 15 11 A4	110	1.5	30	13.000	6420642
AWG 15 21 A4	210	1.5	30	25.000	6420644
AWG 15 31 A4	310	1.5	30	33.000	6420646
AWG 15 41 A4	410	1.5	30	53.000	6420648
AWG 15 51 A4	510	1.5	20	65.000	6420650
AWG 15 61 A4	610	1.5	20	80.000	6420652

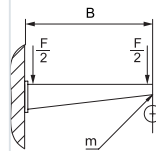
/pc.

Dimensions



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

Load



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

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

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1

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

Characteristic anchor load values for AW G 15 wall bracket – wall fastening

Load [kN]				
Bracket width [mm]	110	210	310	410
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Wall and support bracket AW 30

VA 2B

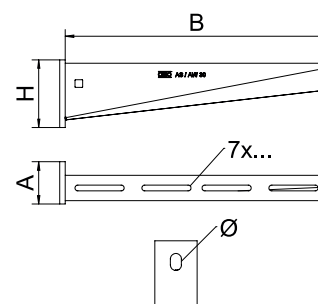


Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 30 11 A2	110	3	1	21.000	6442803
AW 30 21 A2	210	3	1	37.500	6442838
AW 30 31 A2	310	3	1	60.500	6442854
AW 30 41 A2	410	3	1	85.200	6442870
AW 30 51 A2	510	3	1	124.800	6442897
AW 30 61 A2	610	3	1	154.000	6442919

/pc.

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

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



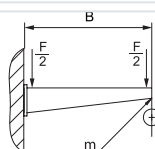
Characteristic anchor load values for wall bracket AW 30 - wall fastening

Item on test	Force F (SWL)	Width B
AW 30 11 A2	3 kN	110 mm
AW 30 21 A2	3 kN	210 mm
AW 30 31 A2	3 kN	310 mm
AW 30 41 A2	3 kN	410 mm
AW 30 51 A2	3 kN	510 mm
AW 30 61 A2	3 kN	610 mm

Deformation measuring point m

According to IEC 61537, Chapter 10.8.1

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



Load

Characteristic anchor load values for AW 30 wall and support bracket – wall fastening

Load [kN]							
Bracket width [mm]	110	160	210	310	410	510	560
Anchor type							
BZ-U 10-10-30/90	1.5	2.1	1.65	1.4	1.5	1	1
BZ 12-15-35/110	3.00	2.65	2.9	1.5	1.9	1.8	1.75

The load capacity values increase considerably when used in uncracked concrete.

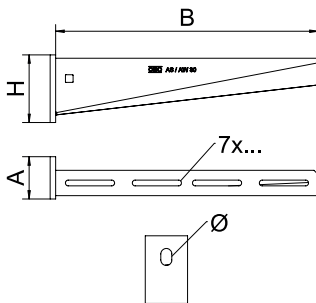
The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Wall and support bracket AW 30



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

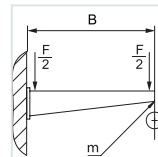
Medium-duty wall and support bracket with welded head plate.



Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 30 11 A4	110	3	1	21.000	6443615
AW 30 21 A4	210	3	1	37.500	6443311
AW 30 31 A4	310	3	1	60.500	6443621
AW 30 41 A4	410	3	1	85.200	6443346
AW 30 51 A4	510	3	1	124.800	6443625
AW 30 61 A4	610	3	1	154.000	6443627

/pc.

Load



Characteristic anchor load values for wall bracket AW 30 - wall fastening

Item on test	Force F (SWL)	Width B
AW 30 11 A4	3 kN	110 mm
AW 30 21 A4	3 kN	210 mm
AW 30 31 A4	3 kN	310 mm
AW 30 41 A4	3 kN	410 mm
AW 30 51 A4	3 kN	510 mm
AW 30 61 A4	3 kN	610 mm

Deformation measuring point m

According to IEC 61537, Chapter 10.8.1

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

Characteristic anchor load values for AW 30 wall and support bracket – wall fastening

Load [kN]	110	160	210	310	410	510	560
Bracket width [mm]							
Anchor type							
BZ-U 10-10-30/90	1.5	2.1	1.65	1.4	1.5	1	1
BZ 12-15-35/110	3.00	2.65	2.9	1.5	1.9	1.8	1.75

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Wall and support bracket AW 55

VA 2B

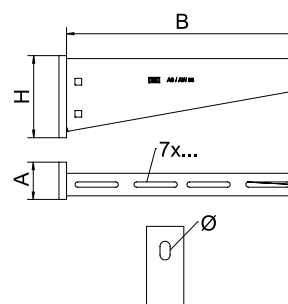


Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 55 21 A2	210	5.5	1	77.000	6443063
AW 55 31 A2	310	5.5	1	118.900	6443067
AW 55 41 A2	410	5.5	1	162.800	6443071
AW 55 51 A2	510	5.5	1	232.500	6443075
AW 55 61 A2	610	5.5	1	305.000	6443079
AW 55 71 A2	710	5.5	1	445.000	6443083

/pc.

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

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



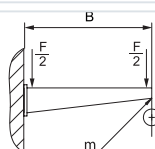
Characteristic anchor load values for wall bracket AW 55 - wall fastening

Item on test	Force F (SWL)	Width B
AW 55 21 A2	0.950 kN	210 mm
AW 55 31 A2	0.950 kN	310 mm
AW 55 41 A2	0.950 kN	410 mm
AW 55 51 A2	0.950 kN	510 mm
AW 55 61 A2	0.950 kN	610 mm
AW 55 71 A2	0.950 kN	710 mm

Deformation measuring point m

According to IEC 61537, Chapter 10.8.1

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



Load

Characteristic anchor load values for AW 55 wall and support bracket – wall fastening

Load [kN]							
Bracket width [mm]	210	310	410	510	560	610	710
Anchor type							
BZ-U 10-10-30/90	2.2	2.1	2	1.9	1.9	1.8	1.75
BZ 12-15-35/110	3.8	3.5	3.5	3.25	3.3	3	3
SZ-B 18/0x142	4.10	4.06	4.02	3.83	3.83	3.56	2.88

The load capacity values increase considerably when used in uncracked concrete.

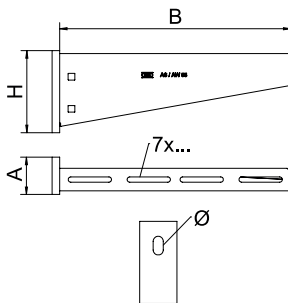
The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Wall and support bracket AW 55



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

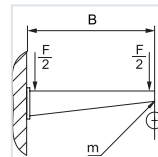
Heavy-duty wall and support bracket with welded head plate.



Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 55 21 A4	210	5.5	1	77.000	6418557
AW 55 31 A4	310	5.5	1	118.900	6418573
AW 55 41 A4	410	5.5	1	162.800	6418601
AW 55 51 A4	510	5.5	1	232.500	6418622
AW 55 61 A4	610	5.5	1	305.000	6418638

/pc.

Load



Characteristic anchor load values for wall bracket AW 55 - wall fastening

Item on test	Force F (SWL)	Width B
AW 55 21 A4	0.950 kN	210 mm
AW 55 31 A4	0.950 kN	310 mm
AW 55 41 A4	0.950 kN	410 mm
AW 55 51 A4	0.950 kN	510 mm
AW 55 61 A4	0.950 kN	610 mm

Deformation measuring point m

According to IEC 61537, Chapter 10.8.1

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

Characteristic anchor load values for AW 55 wall and support bracket – wall fastening

Load [kN]	210	310	410	510	560	610	710
Bracket width [mm]							
Anchor type							
BZ-U 10-10-30/90	2.2	2.1	2	1.9	1.9	1.8	1.75
BZ 12-15-35/110	3.8	3.5	3.5	3.25	3.3	3	3
SZ-B 18/0x142	4.10	4.06	4.02	3.83	3.83	3.56	2.88

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Wall and clamping bracket AWSS

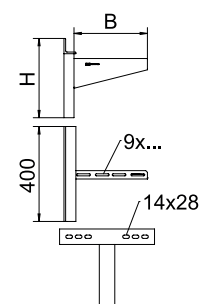
VA 2B



Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AWSS 21 A2	210	10	1	302.000	6417941
AWSS 31 A2	310	10	1	528.000	6417943
AWSS 41 A2	410	10	1	57.400	6417945
AWSS 51 A2	510	10	1	666.000	6417947
AWSS 61 A2	610	10	1	733.000	6417949

The heavy-duty wall bracket can be used in conjunction with wide span systems or for large support distances of cable tray or cable ladder systems.

Wall bracket, heavy duty.



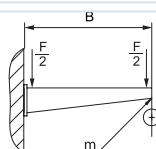
Characteristic anchor load values for wall and clamping bracket AWSS - wall fastening

Item on test	Force F (SWL)	Width B
AWSS 21 A2	10 kN	210 mm
AWSS 31 A2	10 kN	310 mm
AWSS 41 A2	10 kN	410 mm
AWSS 51 A2	10 kN	510 mm
AWSS 61 A2	10 kN	610 mm
AWSS 71 A2	8 kN	710 mm
AWSS 81 A2	7 kN	810 mm
AWSS 91 A2	6.5 kN	910 mm
AWSS 101 A2	6 kN	1,010 mm

Deformation measuring point m

According to IEC 61537, Chapter 10.8.1

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



Load

Characteristic anchor load values for AWSS wall and support bracket - wall fastening

Load [kN]	210	310	410	510	610	710	810	910	1,010
Bracket width [mm]									
Anchor type									
BZ 12-15-35/110	10	10	10	10	10	8	7	6.5	6

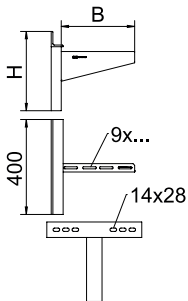
Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Comply with the installation conditions of the DIBt approval (anchors). The testing of the widths 710–1,010 mm took place at the maximum route width (600 mm) with the load at the end of the bracket.

Wall and clamping bracket AWSS



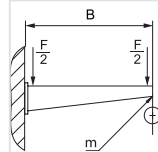
The heavyweight wall bracket can be used in conjunction with wide span systems or for large support distances of cable tray or cable ladder systems.

Wall bracket, heavy-duty.



Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AWSS 21 A4	210	10	1	306.000	6417971
AWSS 31 A4	310	10	1	535.000	6417973
AWSS 41 A4	410	10	1	58.100	6417975
AWSS 51 A4	510	10	1	67.500	6417977
AWSS 61 A4	610	10	1	74.200	6417979

Load



Characteristic anchor load values for wall and clamping bracket AWSS - Wall fastening

Item on test	Force F (SWL)	Width B
AWSS 21 A4	10 kN	210 mm
AWSS 31 A4	10 kN	310 mm
AWSS 41 A4	10 kN	410 mm
AWSS 51 A4	10 kN	510 mm
AWSS 61 A4	10 kN	610 mm
AWSS 71 A4	8 kN	710 mm
AWSS 81 A4	7 kN	810 mm
AWSS 91 A4	6.5 kN	910 mm
AWSS 101 A4	6 kN	1,010 mm

Deformation measuring point m

According to IEC 61537, Chapter 10.8.1

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

Characteristic anchor load values for AWSS wall and support bracket - Wall fastening

Load [kN]									
Bracket width [mm]	210	310	410	510	610	710	810	910	1,010
Anchor type									
BZ 12-15-35/110	10	10	10	10	10	8	7	6.5	6

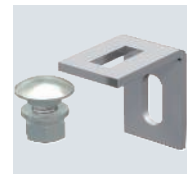
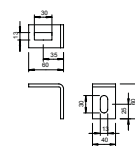
Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Comply with the installation conditions of the DIBt approval (anchors). The testing of the widths 710–1,010 mm took place at the maximum route width (600 mm) with the load at the end of the bracket.

Mounting angle BW 60

Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 60 40 A2	10	16.000	6019587
BW 60 40 A4	10	16.000	6019583

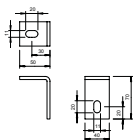
/pc.

Mounting angle of limb dimension 60 x 60 mm.
Including truss-head bolt M12 x 25.



Mounting angle BW 70

VA



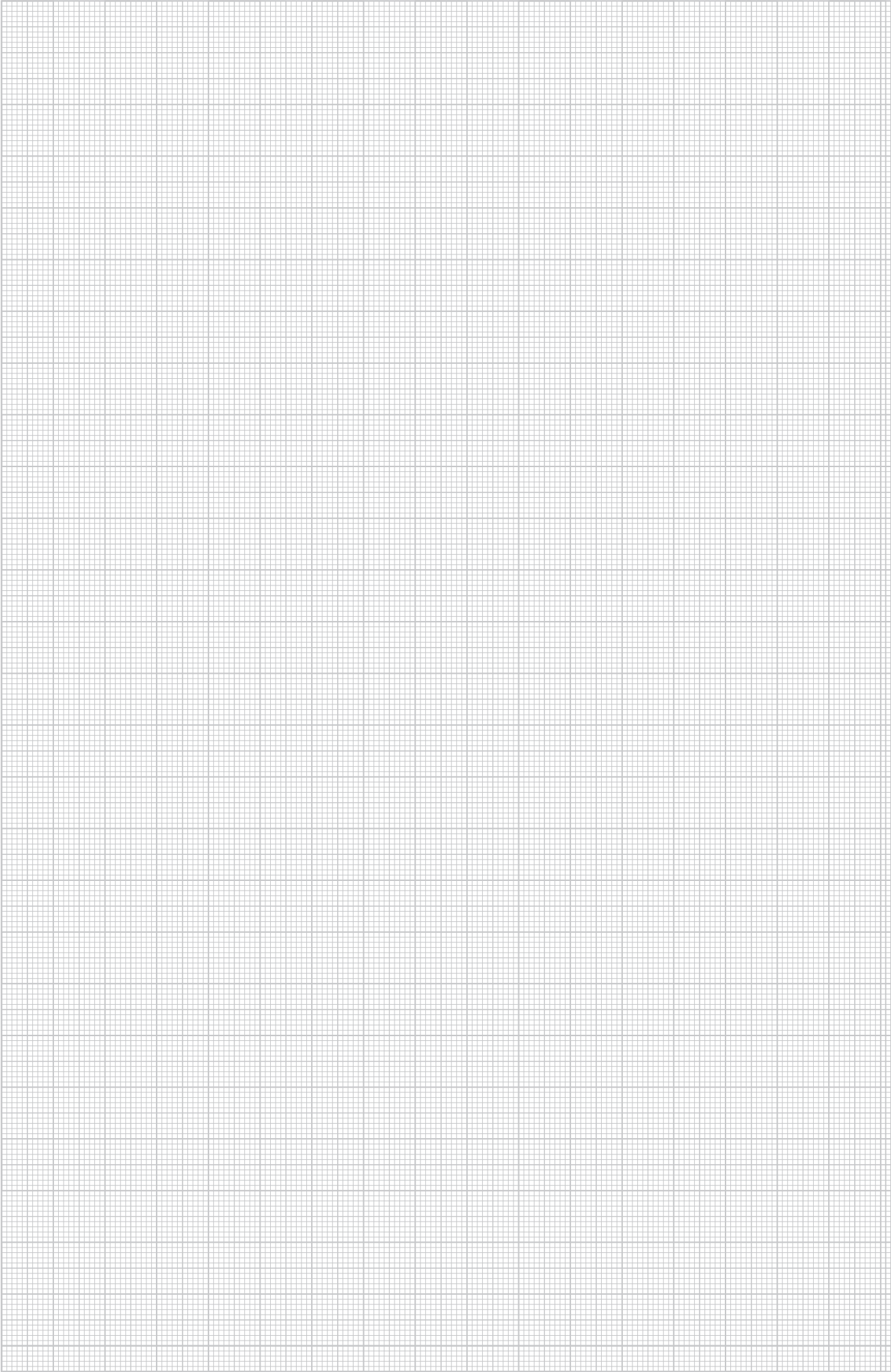
Type

BW 70 40 A2

Pack Piece	Weight kg/100 pc.	Item no.
10	19.900	6019710

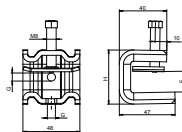
/pc.

Mounting angle of limb dimension 70 x 50 mm.
Including truss-head bolt M10 x 25.



Beam clamp SSP 6-21

VA VA A2 2B



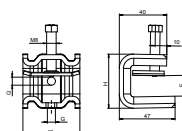
Type	Flange thickness mm	For threaded rod	Breaking load F1 kN	Breaking load F2 kN	Pack Piece	Weight kg/100 pc.	Item no.
SSP 6-21 M6 A2	6-21	M6	1.75	1.5	25	23.200	1486234
SSP 6-21 M6 A4	6-21	M6	1.75	1.5	25	23.200	1486236
SSP 6-21 M8 A2	6-21	M8	1.75	1.5	25	23.200	1486284
SSP 6-21 M8 A4	6-21	M8	1.75	1.5	25	23.200	1486286

/100 pc.

This type of beam clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M6 threads are also incorporated, to fix threaded rods, for example.

Beam clamp SSP 20-40

VA VA A2 2B



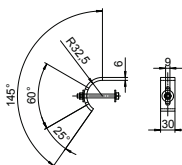
Type	Flange thickness mm	For threaded rod	Breaking load F1 kN	Breaking load F2 kN	Pack Piece	Weight kg/100 pc.	Item no.
SSP 20-40 M6 A2	20-40	M6	1.4	1.3	25	27.700	1486242
SSP 20-40 M6 A4	20-40	M6	1.4	1.3	25	27.700	1486244
SSP 20-40 M8 A2	20-40	M8	1.4	1.3	25	27.800	1486292
SSP 20-40 M8 A4	20-40	M8	1.4	1.3	25	27.800	1486294

/100 pc.

This type of beam clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M6 threads are also incorporated, to fix threaded rods, for example.

Chuck jaw, light-duty TKS

VA



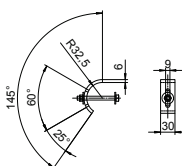
Type	Height mm	Bolt	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
TKS-L36 M8 A2	36	M8x80	10	50	16.000	6355834

/pc.

Chuck jaw with hexagonal nut for direct fastening of structures to steel girders. The clamping range of the chuck jaw is limited to the maximum fastening thickness of 36 mm.

Chuck jaw, light-duty TKS

VA



Type	Height mm	Bolt	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
TKS-L36 M8 A4	36	M8x80	10	50	16.000	6355835

/pc.

Chuck jaw with hexagonal nut for direct fastening of structures to steel girders. The clamping range of the chuck jaw is limited to the maximum fastening thickness of 36 mm.

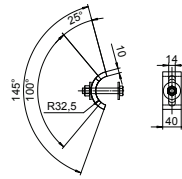
VA

Chuck jaw, light duty TKS

Type	Height mm	Bolt	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
TKS-L36 M12 A2	36	M12x80	10	25	36.000	6355836

/pc.

Chuck jaw with hexagonal nut for direct fastening of structures to steel girders.
The clamping range of the chuck jaw is limited to the maximum fastening thickness of 36 mm.



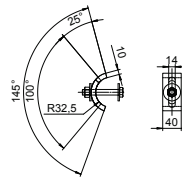
VA

Chuck jaw, light-duty TKS

Type	Height mm	Bolt	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
TKS-L36 M12 A4	36	M12x80	10	25	36.000	6355837

/pc.

Chuck jaw with hexagonal nut for direct fastening of structures to steel girders.
The clamping range of the chuck jaw is limited to the maximum fastening thickness of 36 mm.



VA

Clamp

Type	Length mm	Width mm	Height mm	Pack Piece	Weight kg/100 pc.	Item no.
SB MS 41 M8 A4	118	80	74	20	32.300	1124719

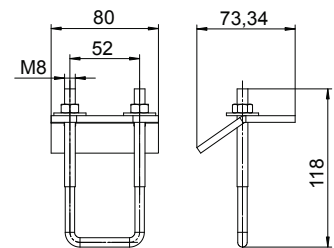
/100 pc.

Connection element for two-sided fastening of profile rails to steel girders. Fastening is possible independently of the arrangement of the rail opening. The rail length should be at least the width of the steel girder + 2 x 50 mm.

Always use in pairs for mounting.



Dimensions



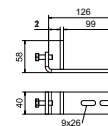
VA 2B

Beam clamp, vertical BFK 132

Type	Height mm	Dim. B mm	Dimen- sion B1 mm	Pack Piece	Weight kg/100 pc.	Item no.
BFK 132 58 A2	20	132	99	10	38.000	6003871

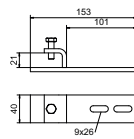
/pc.

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



Beam clamp, horizontal BFK 153

VA 2B



Type	Height mm	Dim. B mm	Dimen- sion B1 mm	Pack Piece	Weight kg/100 pc.	Item no.
BFK 153 33 A2	20	153	101	10	37.200	6003873

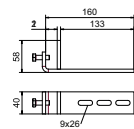
/pc.

Beam clamp for clamping on the steel girder.

The cable support system attached to the beam clamp runs horizontally.

Beam clamp, vertical BFK 166

VA 2B



Type	Height mm	Dim. B mm	Dimen- sion B1 mm	Pack Piece	Weight kg/100 pc.	Item no.
BFK 166 58 20 A2	20	166	133	10	46.000	6003877

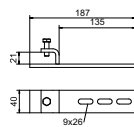
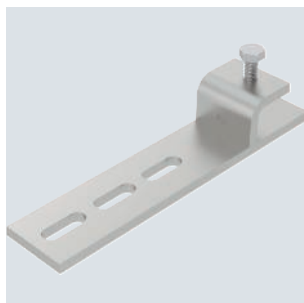
/pc.

Beam clamp for clamping on the steel girder.

The cable support system attached to the beam clamp runs vertically.

Beam clamp, horizontal BFK 187

VA 2B

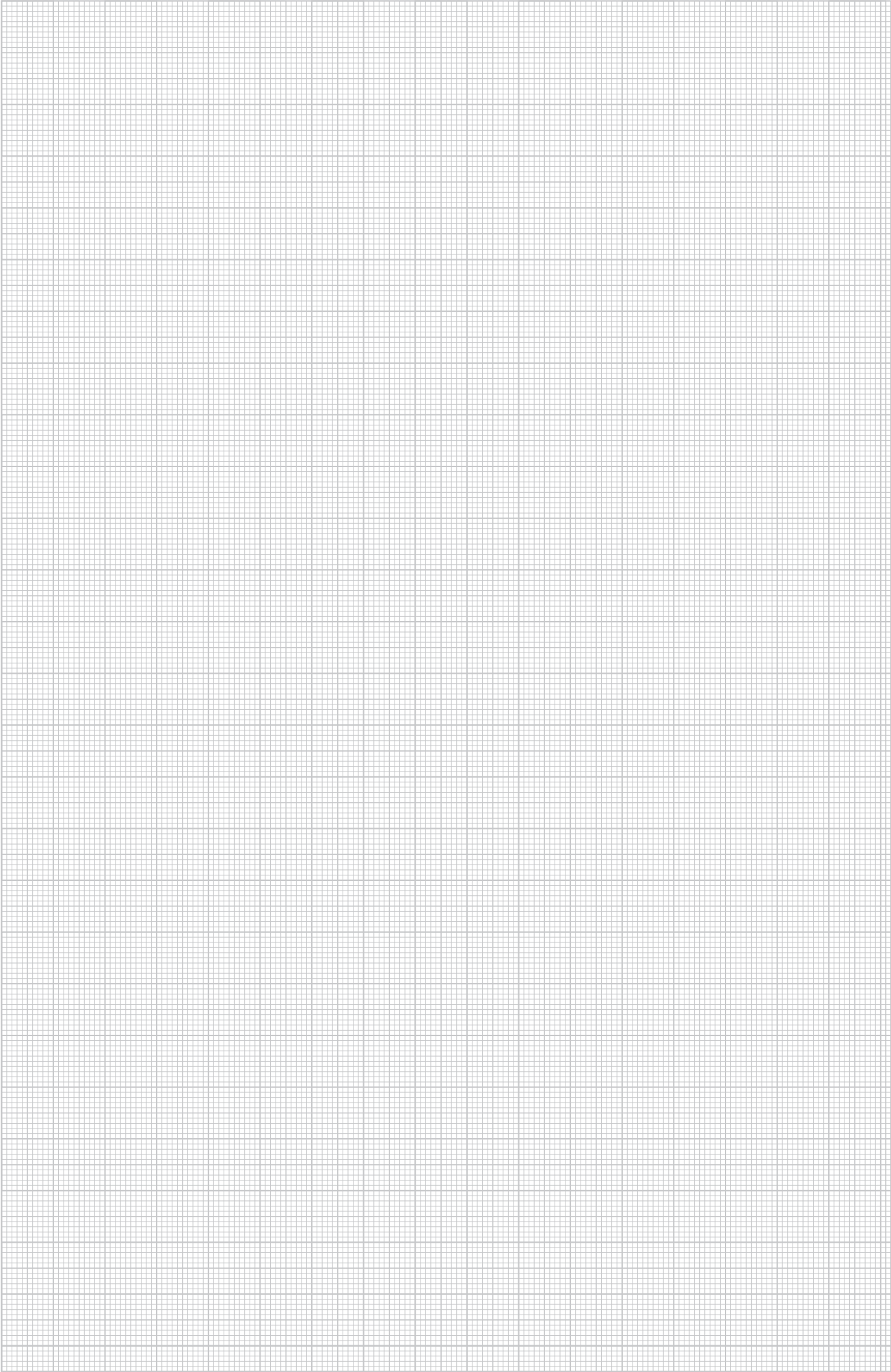


Type	Height mm	Dim. B mm	Dimen- sion B1 mm	Pack Piece	Weight kg/100 pc.	Item no.
BFK 187 33 A2	20	187	135	10	42.000	6003879

/pc.

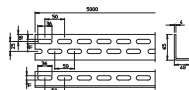
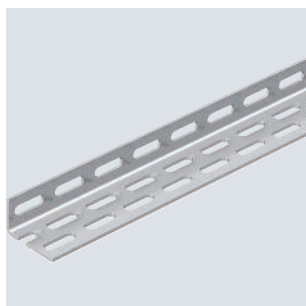
Beam clamp for clamping on the steel girder.

The cable support system attached to the beam clamp runs horizontally.



Angle profile WP40/65

VA 2B



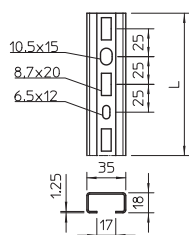
Type	Length mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
WP 40 65 5000 A2	5000	4.00	5	241.600	6373062

price/m

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

CML3518 profile rail, slot 17 mm, perforated

VA 2B



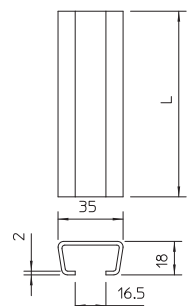
Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CML3518P1000A2	1000	1.25	10	71.000	1104498
CML3518P2000A2	2000	1.25	20	71.000	1104501

price/100 m

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

AML3518 anchor rail, slot 16.5 mm, unperforated

VA 2B



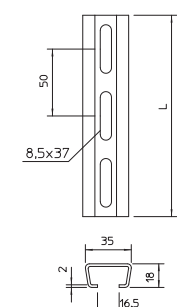
Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AML3518UP2000A2	2000	1.5	20	90.000	1112007
AMS3518UP2000A2	2000	2	20	116.000	1110005

price/100 m

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

Anchor rail AMS3518, slot 16.5 mm, perforated

VA 2B



Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AMS3518P1000A2	1000	2	10	107.000	1118421
AMS3518P2000A2	2000	2	20	107.000	1112709

price/100 m

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

A4 2B

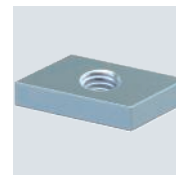
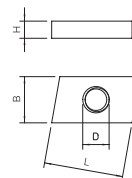
Slide nut

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
ACMSN M6 A4	26	16.5	4	M6	100	1.650	1147076
ACMSN M8 A4	26	16.5	5	M8	100	1.600	1147080
ACMSN M10 A4	26	16.5	6	M10	100	1.500	1147084

/100 pc.

Slide nut for use with CM3015, CM3518 and AM3518 profile rails

Slide nut for use with C30 profile rungs.



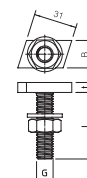
A4 2B

Hammer-head bolt

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
ACMHB M6x30 A4	26	16.5	5	M 6 x 30mm	50	2.600	1148076
ACMHB M8x30 A4	26	16.5	5	M 8 x 30mm	50	3.450	1148080
ACMHB M8x60 A4	26	16.5	5	M 8 x 60mm	25	4.650	1148084
ACMHB M10x30 A4	26	16.5	5	M 10 x 30mm	50	4.950	1148088
ACMHB M10x60 A4	26	16.5	5	M 10 x 60mm	25	6.240	1148092

/100 pc.

Hammer-head bolt for use with CM3015, CM3518 and AM3518 profile rails



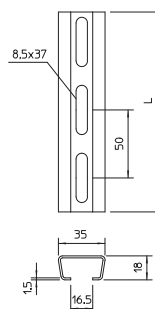
VA 2B

AML3518 anchor rail, slot 16.5 mm, perforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AML3518P1000A2	1000	1.5	10	82.000	1119700
AML3518P2000A2	2000	1.5	20	82.000	1119702
AML3518P6000A2	6000	1.5	6	80.000	1119729

price/100 m

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



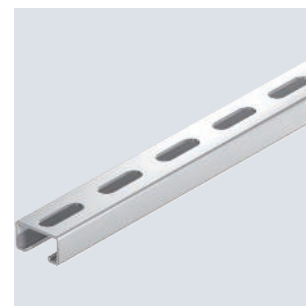
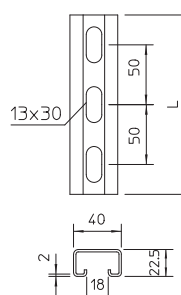
VA 2B

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

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS4022P2000A2	2000	2	10	152.500	1121960
MS4022P6000A2	6000	2	6	152.500	1121901

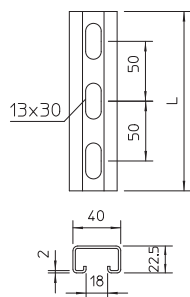
price/100 m

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



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

VA 2B



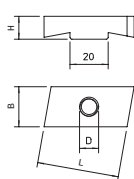
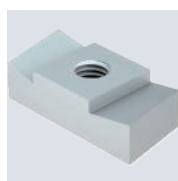
Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS4022P2000A4	2000	2	10	147.600	1121963
MS4022P6000A4	6000	2	6	147.600	1121903

price/100 m

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

Slide nut

A4 2B



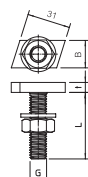
Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS40SN M6 A4	35	17	10	M6	50	3.750	1147126
MS40SN M8 A4	35	17	10	M8	50	3.600	1147130
MS40SN M10 A4	35	17	10	M10	50	3.400	1147134
MS40SN M12 A4	35	17	10	M12	50	3.160	1147138

/100 pc.

Slide nut for use with MS4022 profile rail

Hook head screw

A4 2B



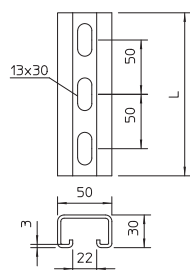
Type	Length mm	Width mm	Height mm	Thread	Torque Nm	Pack Piece	Weight kg/100 pc.	Item no.
MS40HB M6x30 A4	35	17	10	M6x30mm	2.9	50	4.800	1148146
MS40HB M8x30 A4	35	17	10	M8x30mm	7.1	50	5.650	1148150
MS40HB M8x60 A4	35	17	10	M8x60mm	7.1	25	6.850	1148154
MS40HB M10x30 A4	35	14	7.5	M10x30mm	14	50	6.000	1148160
MS40HB M10x60 A4	35	14	7.5	M10x60mm	14	25	7.850	1148164
MS40HB M12x30 A4	35	14	7.5	M12x30mm	24	50	7.550	1148168
MS40HB M12x60 A4	35	14	7.5	M12x60mm	24	25	9.320	1148170

/100 pc.

Hook-head screw for use with MS4022 profile rail

MS5030 mounting rail, slot 22 mm, perforated

VA 2B



Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS5030P2000A2	2000	3	2	280.000	1121480
MS5030P6000A2	6000	3	6	282.500	1121499

price/100 m

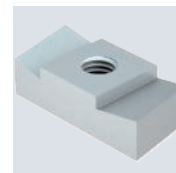
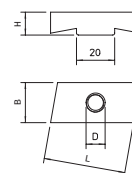
Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

A4 2B

Slide nut

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS50SN M6 A4	43	21	12	M6	50	6.700	1147172
MS50SN M8 A4	43	21	12	M8	50	6.550	1147186
MS50SN M10 A4	43	21	12	M10	50	6.350	1147190
MS50SN M12 A4	43	21	12	M12	50	6.100	1147194

/100 pc.



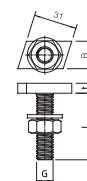
Slide nut for use with MS5030 profile rail

A4 2B

Hook head bolt

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS50HB M6x30 A4	43	21	12	M6x30mm	50	7.800	1148256
MS50HB M8x30 A4	43	21	12	M8x30mm	50	8.700	1148260
MS50HB M8x60 A4	43	21	12	M8x60mm	25	9.900	1148264
MS50HB M10x30 A4	43.3	13	10	M10x30mm	50	7.700	1148268
MS50HB M10x60 A4	43.3	13	10	M10x60mm	25	9.450	1148272
MS50HB M12x30 A4	43.3	13	10	M12x30mm	50	9.000	1148276
MS50HB M12x60 A4	43.3	13	10	M12x60mm	25	11.650	1148280

/100 pc.



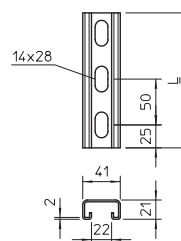
Hook-head screw for use with MS5030 profile rail

VA VA 2B

MS4121 mounting rail, slot 22 mm, perforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS4121P2000A2	2000	2	2	140.950	1122925
MS4121P3000A2	3000	2	3	185.340	1122928
MS4121P6000A2	6000	2	6	140.950	1122929
MS4121P2000A4	2000	2	2	175.000	1122476
MS4121P3000A4	3000	2	3	172.670	1122931
MS4121P6000A4	6000	2	6	172.670	1122932

price/100 m



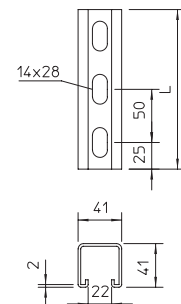
Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

VA VA 2B

MS4141 mounting rail, slot 22 mm, perforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MSL4141P1000A2	1000	2	1	201.100	1122978
MSL4141P3000A2	3000	2	3	201.100	1122980
MSL4141P6000A2	6000	2	6	201.100	1122982
MSL4141P1000A4	1000	2	1	201.100	1122988
MSL4141P3000A4	3000	2	3	201.100	1122990
MSL4141P6000A4	6000	2	6	201.100	1122992

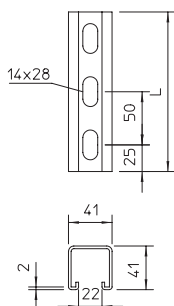
price/100 m



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

MS4141 mounting rail, slot 22 mm, side perforation

VA VA 2B



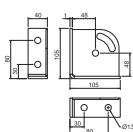
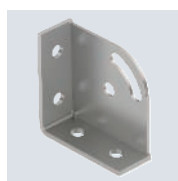
Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MSL4141PP1000A2	1000	2	1	179.400	1123014
MSL4141PP3000A2	3000	2	3	179.400	1123016
MSL4141PP6000A2	6000	2	6	179.400	1123018
MSL4141PP1000A4	1000	2	1	179.400	1123021
MSL4141PP3000A4	3000	2	3	179.400	1123023
MSL4141PP6000A4	6000	2	6	179.400	1123025

price/100 m

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

Mounting bracket, 90° with 6 holes

VA VA 2B



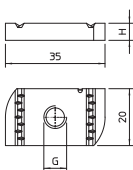
Type	Version	Pack Piece	Weight kg/100 pc.	Item no.
GMS 6 KD A2	90° bracket	10	48.800	1124796
GMS 6 KD A4	90° bracket	10	48.800	1124798

/100 pc.

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

Slide nut

A4 2B



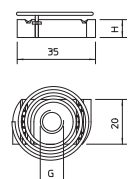
Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS41SN M6 A4	35	20	6	M6	50	2.880	1147226
MS41SN M8 A4	35	20	6	M8	50	2.800	1147230
MS41SN M10 A4	35	20	8	M10	50	3.650	1147234
MS41SN M12 A4	35	20	9.5	M12	50	4.200	1147238

/100 pc.

Slide nut for use with MS4121 und MS4141 profile rails

Slide nut with spring

A4 2B



Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS41SNF M6 A4	35	20	6	M6	50	3.200	1147336
MS41SNF M8 A4	35	20	6	M8	50	3.150	1147340
MS41SNF M10 A4	35	20	8	M10	50	4.000	1147344
MS41SNF M12 A4	35	20	9.5	M12	50	4.550	1147348

/100 pc.

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

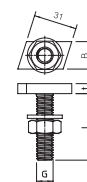
A4 2B

Hook head screw

Type	Length mm	Width mm	Height mm	Thread	Torque Nm	Pack Piece	Weight kg/100 pc.	Item no.
MS40HB M6x30 A4	35	17	10	M6x30mm	2.9	50	4.800	1148146
MS40HB M8x30 A4	35	17	10	M8x30mm	7.1	50	5.650	1148150
MS40HB M8x60 A4	35	17	10	M8x60mm	7.1	25	6.850	1148154
MS40HB M10x30 A4	35	14	7.5	M10x30mm	14	50	6.000	1148160
MS40HB M10x60 A4	35	14	7.5	M10x60mm	14	25	7.850	1148164
MS40HB M12x30 A4	35	14	7.5	M12x30mm	24	50	7.550	1148168
MS40HB M12x60 A4	35	14	7.5	M12x60mm	24	25	9.320	1148170

/100 pc.

Hook-head screw for use with MS4022 profile rail



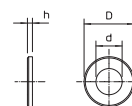
A2 2B

Washer

Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M6 D12 A2	M6	6.4	12	1.6	100	0.114	3402304

/100 pc.

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



A4 2B

Hammer-head bolt

Type	Length mm	Width mm	Height mm	Thread	Torque Nm	Pack Piece	Weight kg/100 pc.	Item no.
MS41HB M6x30 A4	35	20	6	M6x30	3.4	50	4.000	1148406
MS41HB M8x30 A4	35	20	6	M8x30	6.2	50	4.800	1148410
MS41HB M8x60 A4	35	20	6	M8x60	6.2	25	6.000	1148414
MS41HB M8x100 A4	35	20	6	M8x100	6.2	20	7.550	1148418
MS41HB M10x30 A4	35	20	8	M10x30	9.9	50	7.350	1148422
MS41HB M10x60 A4	35	20	8	M10x60	9.9	25	9.200	1148426
MS41HB M10x100A4	35	20	8	M10x100	9.9	20	11.650	1148430
MS41HB M12x30 A4	35	20	9.5	M12x30	14.4	50	9.700	1148434
MS41HB M12x60 A4	35	20	9.5	M12x60	14.4	25	12.400	1148438
MS41HB M12x100A4	35	20	9.5	M12x100	14.4	20	15.900	1148442

/100 pc.

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



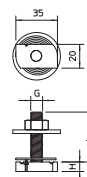
A4 2B

Hammer-head bolt with spring

Type	Length mm	Width mm	Height mm	Thread	Torque Nm	Pack Piece	Weight kg/100 pc.	Item no.
MS41HBF M8x30 A4	35	20	6	M8x30	6.2	50	4.800	1148476
MS41HBF M8x60 A4	35	20	6	M8x60	6.2	25	5.950	1148480
MS41HBF M10x30A4	35	20	8	M10x30	9.9	50	7.350	1148484
MS41HBF M10x60A4	35	20	8	M10x60	9.9	25	9.200	1148488
MS41HBF M12x30A4	35	20	9.5	M12x30	14.4	50	9.700	1148492
MS41HBF M12x60A4	35	20	9.5	M12x60	14.4	25	12.400	1148496

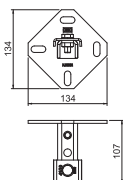
/100 pc.

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



Wall, floor and ceiling bracket with 3 holes

VA 2B



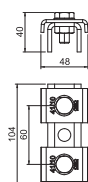
Type	Version	Dimension	Material	Length	Pack	Weight	Item no.
		W x H mm	thickness mm			kg/100 pc.	
WBDHE 41 A4	Perforated	134x110	5	102	10	73.000	1123197

/100 pc.

The wall, floor and ceiling bracket can ideally be used as a panel for wall, floor and ceiling mounting. Also suitable for stand and frame construction in conjunction with the mounting rails MS4141.

Rail connector SV with 3 holes

VA 2B



Type	Version	Dimension	Material	Length	Pack	Weight	Item no.
		W x H mm	thickness mm			kg/100 pc.	
SVE 41 A4	Perforated	47x39,4	4	100	10	42.000	1123128

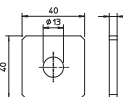
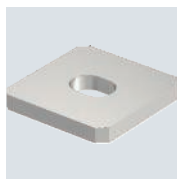
/100 pc.

The rail connector is used to extend the mounting rail MS4141. The connection can be made simply and securely on the construction site or prefabricated in the workshop. There is a guarantee that there is no weak point in the area of the rail coupling. The static values of the mounting rail apply here.

Scope of delivery:
Retaining plates, type 4141, and suitable hexagonal bolts included loosely.

Connection plate with 1 hole

VA 2B



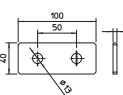
Type	Material	thickness	Pack	Weight	Item no.
		mm	Piece	kg/100 pc.	
GMS 1 VP A4	4		10	4.450	1124723

/100 pc.

Connection plate with lengthwise slot, for example for mounting threaded rods to profile rails 41 x 41 mm and 41 x 21 mm.

Connection plate with 2 holes

VA 2B



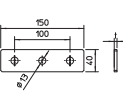
Type	Material	thickness	Pack	Weight	Item no.
		mm	Piece	kg/100 pc.	
GMS 2 VP A4	4		10	11.500	1124725

/100 pc.

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

Connection plate with 3 holes

VA 2B



Type	Material	thickness	Pack	Weight	Item no.
		mm	Piece	kg/100 pc.	
GMS 3 VP A4	4		20	17.200	1124727

/100 pc.

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

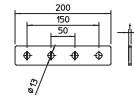
VA 2B

Connection plate with 4 holes

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 4 VP A4	4	10	23.300	1124729

/100 pc.

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



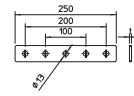
VA 2B

Connection plate with 5 holes

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 5 VP A4	4	10	28.900	1124731

/100 pc.

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



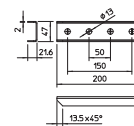
VA 2B

Connector

Type	Version	Pack Piece	Weight kg/100 pc.	Item no.
GVMS 4 ASV A4	With continuous perforation 13 mm	10	24.900	1124715

/100 pc.

Connector gripping from outside with four holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.



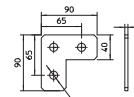
VA 2B

Connection plate, L-shaped

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 VP L A4	4	10	15.900	1124733

/100 pc.

Connection plate with three holes for angled connection of profile rails 41 x 41 mm and 41 x 21 mm.



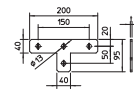
VA 2B

Connection plate, T-shaped

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 4 VP T A4	4	10	30.200	1124735

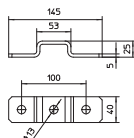
/100 pc.

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



Omega clamp

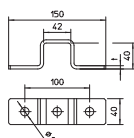
VA 2B



Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 O 4121 A4	4	10	20.900	1124751
/100 pc.				
Fastening clip with 3 holes for cross-wise connection of profile rails 41 x 21 mm.				

Omega clamp

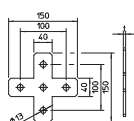
VA 2B



Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 O 4141 A4	5	10	25.400	1124753
/100 pc.				
Fastening clip with 3 holes for cross-wise connection of profile rails 41 x 41 mm.				

Connection plate, X-shaped

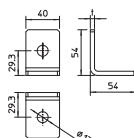
VA 2B



Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 5 VP X A4	4	10	29.600	1124737
/100 pc.				
Connection plate with five holes for cross connection of profile rails 41 x 41 mm and 41 x 21 mm.				

Mounting bracket, 90° with 2 holes

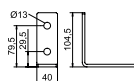
VA 2B



Type	Version	Pack Piece	Weight kg/100 pc.	Item no.
GMS 2 VW 90 A4	90° angle	10	11.500	1124739
/100 pc.				
Mounting bracket with two holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.				

Mounting bracket, 90° with 4 holes

VA 2B



Type	Version	Pack Piece	Weight kg/100 pc.	Item no.
GMS 4 VW 90 A4	90° angle	10	23.300	1124743
/100 pc.				
Mounting bracket with two holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.				

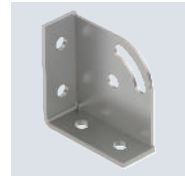
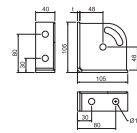
VA VA 2B

Mounting bracket, 90° with 6 holes

Type	Version	Pack Piece	Weight kg/100 pc.	Item no.
GMS 6 KD A2	90° bracket	10	48.800	1124796
GMS 6 KD A4	90° bracket	10	48.800	1124798

/100 pc.

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



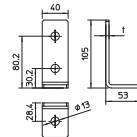
VA 2B

Mounting bracket, 90° with 3 holes

Type	Version	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 VW 90 A4	90° angle	10	17.700	1124741

/100 pc.

Mounting bracket with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.



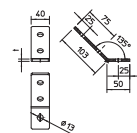
VA 2B

Mounting bracket, 45° with 3 holes

Type	Version	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 VW 45 A4	45° angle	10	17.200	1124747

/100 pc.

Mounting bracket with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 45°.



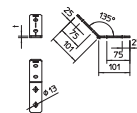
VA 2B

Mounting bracket, 45° with 4 holes

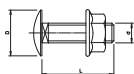
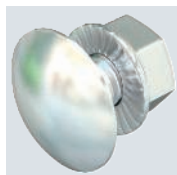
Type	Version	Pack Piece	Weight kg/100 pc.	Item no.
GMS 4 VW 45 A4	45° angle	10	23.300	1124749

/100 pc.

Mounting bracket with four holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 45°.



Truss-head bolt with flange nut

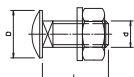
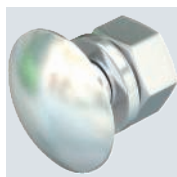


Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRSB 6x12 A2	M6x12	12	6	13.5	A2-70	100	0.830	6406138
FRSB 6x16 A2	M6x16	16	6	13.5	A2-70	100	0.800	6406189
FRSB 6x20 A2	M6x20	20	6	13.5	A2-70	100	0.960	6406205
FRSB 6x12 A4	M6x12	12	6	13.5	A4-50	100	0.796	6406142
FRSB 6x16 A4	M6x16	16	6	13.5	A4-50	100	0.800	6406193
FRSB 6x20 A4	M6x20	20	6	13.5	A4-70	100	0.960	6406207

/100 pc.

Truss-head bolt with square neck including flange nut.

Truss-head bolt with nut and washer

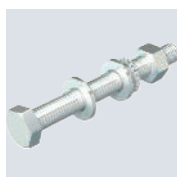


Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRS 6x12 A2	M6x12	12	6	13.5	A2-70	100	0.760	6406521
FRS 6x16 A2	M6x16	15	6	13.5	A2-70	100	0.869	6406556
FRS 6x20 A2	M6x20	20	6	13.5	A2-70	100	0.942	6406602
FRS 8x16 A2	M8x16	16	8	20	A2-70	50	1.926	6406696
FRS 8x25 A2	M8x25	25	8	20	A2-70	50	2.300	6406815
FRS 8x35 A2	M8x35	35	8	20	A2-70	50	2.700	6406823
FRS 10x20 A2	M10x20	20	10	24	A2-70	50	4.100	6406866
FRS 10x25 A2	M10x25	25	10	24	A2-70	50	3.905	6406718
FRS 10x30 A2	M10x30	30	10	24	A2-70	50	4.500	6406726
FRS 12x25 A2	M12x25	25	12	30	A2-70	25	6.400	6406750
FRS 12x30 A2	M12x30	30	12	30	A2-50	25	6.800	6406769
FRS 6x12 A4	M6x12	12	6	13.5	A4-70	100	0.820	6406564
FRS 6x16 A4	M6x16	16	6	13.5	A4-70	100	0.900	6406580
FRS 6x20 A4	M6x20	20	6	13.5	A4-70	100	0.977	6406610
FRS 8x16 A4	M8x16	16	8	20	A4-50	50	2.200	6406653
FRS 8x16 A4	M8x16	16	8	20	A4-70	50	2.200	6406698
FRS 12x25 A4	M12x25	25	12	30	A4-70	25	6.400	6406785
FRS 10x20 A4	M10x20	20	10	24	A4-70	50	4.000	6406870
FRS 10x20S A4	M10x20	20	10	24	A4-70	50	4.100	6406872

/100 pc.

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

Hexagonal bolt with nut and washer

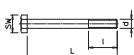
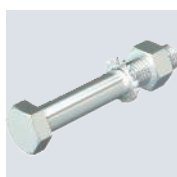


Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 10x30 A4	M10x30	30	10	17	A4-70	50	3.000	3160752

/100 pc.

Hexagonal bolt for universal fixing of structure components.

Hexagonal bolt with hexagonal nut, washer and tooth lock washer



Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 12x80 A2	M12x80	80	12	19	A2-70	20	10.400	6418279
SKS 12x100 A2	M12x100	100	12	19	A2-70	20	12.000	6418368
SKS 12x110 A2	M12x110	110	12	19	A2-70	20	14.500	6418376

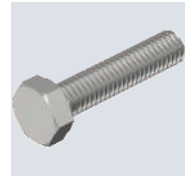
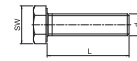
/100 pc.

Hexagonal bolt for universal fixing of structure components.

A2 2B

Hexagonal bolt DIN 933 V2A

Type	Thread	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
HHS M10x45 A2	M10	M10x45	45	10	17	50	3.370	3156040
HHS M12x45 A2	M12	M12x45	45	12	19	50	4.850	3156042
HHS M16x50 A2	M16	M16x50	50	16	24	50	10.300	3156044



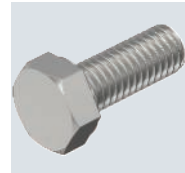
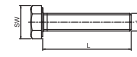
/100 pc.

Hexagonal bolt according to DIN 933 with metric thread.

A4 2B

Hexagonal bolt DIN 933

Type	Thread	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
HHS M6x16 A4	M6	M6x16	16	6	10	100	0.511	3156016
HHS M6x20 A4	M6	M6x20	20	6	10	100	0.580	3156018
HHS M6x25 A4	M6	M6x25	25	6	10	100	0.665	3156019
HHS M6x30 A4	M6	M6x30	30	6	10	100	0.751	3156020
HHS M6x35 A4	M6	M6x35	35	6	10	100	0.837	3156021
HHS M6x40 A4	M6	M6x40	40	6	10	100	0.923	3156022
HHS M8x20 A4	M8	M8x20	20	8	13	100	1.230	3156024
HHS M8x25 A4	M8	M8x25	25	8	13	100	1.390	3156025
HHS M8x30 A4	M8	M8x30	30	8	13	100	1.550	3156026
HHS M8x40 A4	M8	M8x40	40	8	13	100	1.870	3156027
HHS M8x50 A4	M8	M8x50	50	8	13	100	2.180	3156028
HHS M10x20 A4	M10	M10x20	20	10	17	100	2.320	3156031
HHS M10x30 A4	M10	M10x30	30	10	17	100	2.620	3156032
HHS M10x40 A4	M10	M10x40	40	10	17	50	3.120	3156033
HHS M10x50 A4	M10	M10x50	50	10	17	50	3.620	3156034
HHS M10x60 A4	M10	M10x60	60	10	17	50	4.130	3156035
HHS M12x30 A4	M12	M12x30	30	12	19	50	3.770	3156036
HHS M12x40 A4	M12	M12x40	40	12	19	50	4.740	3156029
HHS M12x50 A4	M12	M12x50	50	12	19	50	5.200	3156037



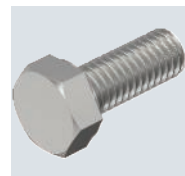
/100 pc.

Hexagonal bolt according to DIN 933 with metric thread.

A5

Hexagonal bolt DIN 933

Type	Thread	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
HHS M8x20 A5	M8	M8x20	20	8	13	100	1.230	3156054
HHS M10x30 A5	M10	M10x30	30	10	17	100	2.620	3156062
HHS M12x40 A5	M12	M12x40	40	12	19	50	4.490	3156067

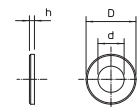


/100 pc.

A2 2B

Washer

Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M6 D12 A2	M6	6.4	12	1.6	100	0.114	3402304
WS M8 D16 A2	M8	8.4	16	1.6	100	0.214	3402312
WS M10 D20 A2	M10	10.5	20	2	100	0.408	3402320
WS M12 D24 A2	M12	13	24	2.5	100	0.627	3402339

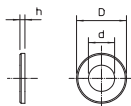
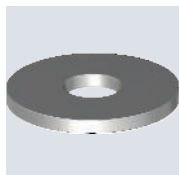


/100 pc.

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

Fender washer

A2 2B



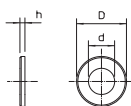
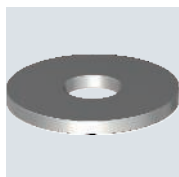
Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M8 D20 A2	M8	8.4	20	1.5	100	0.240	3403125
WS M8 D25 A2	M8	8.4	25	1.5	100	0.370	3403135
WS M8 D40 A2	M8	8.5	40	1.5	100	0.370	3403145
WS M10 D30 A2	M10	10.5	30	1.5	100	0.592	3403155
WS M10 D40 A2	M10	10.5	40	1.5	100	0.592	3403175

/100 pc.

Washer of particularly large outer diameter. In the case of connections on the MS 41 mounting rail, we recommend the external diameter of 40 mm.

Fender washer

A4 2B



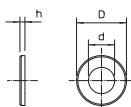
Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M8 D20 A4	M8	8.4	20	1.5	100	0.240	3403127
WS M8 D25 A4	M8	8.4	25	1.2	100	0.370	3403137
WS M8 D40 A4	M8	8.4	40	1.5	100	0.370	3403147
WS M10 D30 A4	M10	10.5	30	1.5	100	0.592	3403163
WS M10 D40 A4	M10	10.5	40	1.5	100	0.592	3403177

/100 pc.

Washer of particularly large outer diameter. In the case of connections on the MS 41 mounting rail, we recommend the external diameter of 40 mm.

Large washer

VA

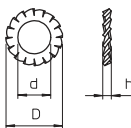


Type	Hole Ø mm	Outer-Ø mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DIN440 7 A2	6.6	22	2	100	0.535	6408703
DIN440 9 A2	9	28	3	100	1.057	6408715
DIN440 11 A2	11	34	3	100	1.852	6408732
DIN440 14 A2	13.5	44	4	50	4.330	6408739

Washer of particularly large outer diameter.

Serrated washer DIN 6798

A2 2B



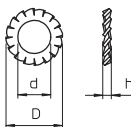
Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
SWS M6 A2	M6	6.4	11	2.1	100	0.040	3404331
SWS M8 A2	M8	8.4	15	2.4	100	0.080	3404358

/100 pc.

Serrated washer to DIN 6798, shape A.

Serrated washer DIN 6798

A4 2B



Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
SWS M6 A4	M6	6.4	11	2.1	100	0.036	3404372
SWS M8 A4	M8	8.4	15	2.4	100	0.080	3404377
SWS M10 A4	M10	10.5	18	2.7	100	0.125	3404381
SWS M12 A4	M12	13	20.5	3	100	0.170	3404385

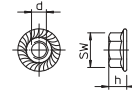
/100 pc.

Serrated washer to DIN 6798, shape A.

VA

Flange nut

Type	Dim. d mm	Dim. h mm	SW mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
KM M8 A4	8	8	13	A4-70	100	0.800	6408920
KM M10 A4	10	10	17	A4-70	100	1.320	6408930
KM M12 A4	12	12	19	A4-70	100	2.260	6408940
KM M6 A4	6	6	10	A4-70	100	0.315	6408970



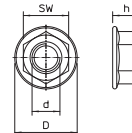
/100 pc.

Combination nut with washer based on EN 1661.

A2 2B

Combination nut DIN 6923

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



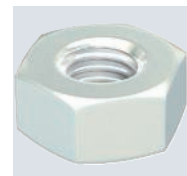
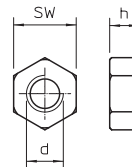
/100 pc.

Combination nut with pressed washer in accordance with EN 1661.

A2 2B

Hexagonal nut DIN 934

Type	Thread	SW mm	h mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
HN M6 A2	M6	10	5.2	6	100	0.215	3397068
HN M8 A2	M8	13	6.8	8	100	0.520	3397084
HN M10 A2	M10	17	8.4	10	100	1.043	3397106
HN M12 A2	M12	19	10.8	12	100	1.730	3397114



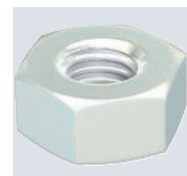
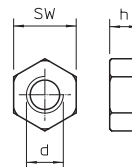
/100 pc.

Hexagonal nut to DIN 934 with metric thread.

A4 2B

Hexagonal nut DIN 934

Type	Thread	SW mm	h mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
HN M6 A4	M6	10	5.2	6	100	0.250	3400173
HN M8 A4	M8	13	6.8	8	100	0.520	3400175
HN M10 A4	M10	17	8.4	10	100	1.084	3400177
HN M12 A4	M12	19	10.8	12	100	1.730	3397145



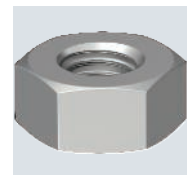
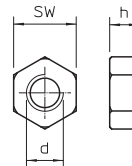
/100 pc.

Hexagonal nut to DIN 934 with metric thread.

A5

Hexagonal nut DIN 934

Type	Thread	SW mm	h mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
HN M6 A5	M6	10	5.2	6	100	0.250	3400183
HN M8 A5	M8	13	6.8	8	100	0.520	3400185

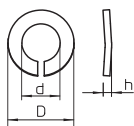


/100 pc.

Hexagonal nut to DIN 934 with metric thread.

Spring washer

A4 2B



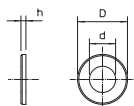
Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
LWS M6 A4	M6	6.3	11.8	2.1	100	0.070	3405062
LWS M8 A4	M8	8.3	14.8	2.6	100	0.130	3405089
LWS M10 A4	M10	10.5	18.1	3	100	0.210	3405111
LWS M12 A4	M12	12.5	21.1	3.5	100	0.320	3405127

/100 pc.

Lock washer according to DIN 128, shape A.

Washer

A4 2B



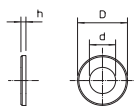
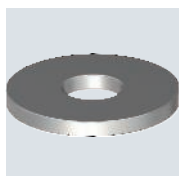
Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M6 D12 A4	M6	6.4	12	1.6	100	0.114	3402306
WS M8 D16 A4	M8	8.4	16	1.6	100	0.214	3402314
WS M10 D20 A4	M10	10.5	20	2	100	0.408	3402322
WS M12 D24 A4	M12	13	24	2.5	100	0.627	3402345

/100 pc.

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

Washer

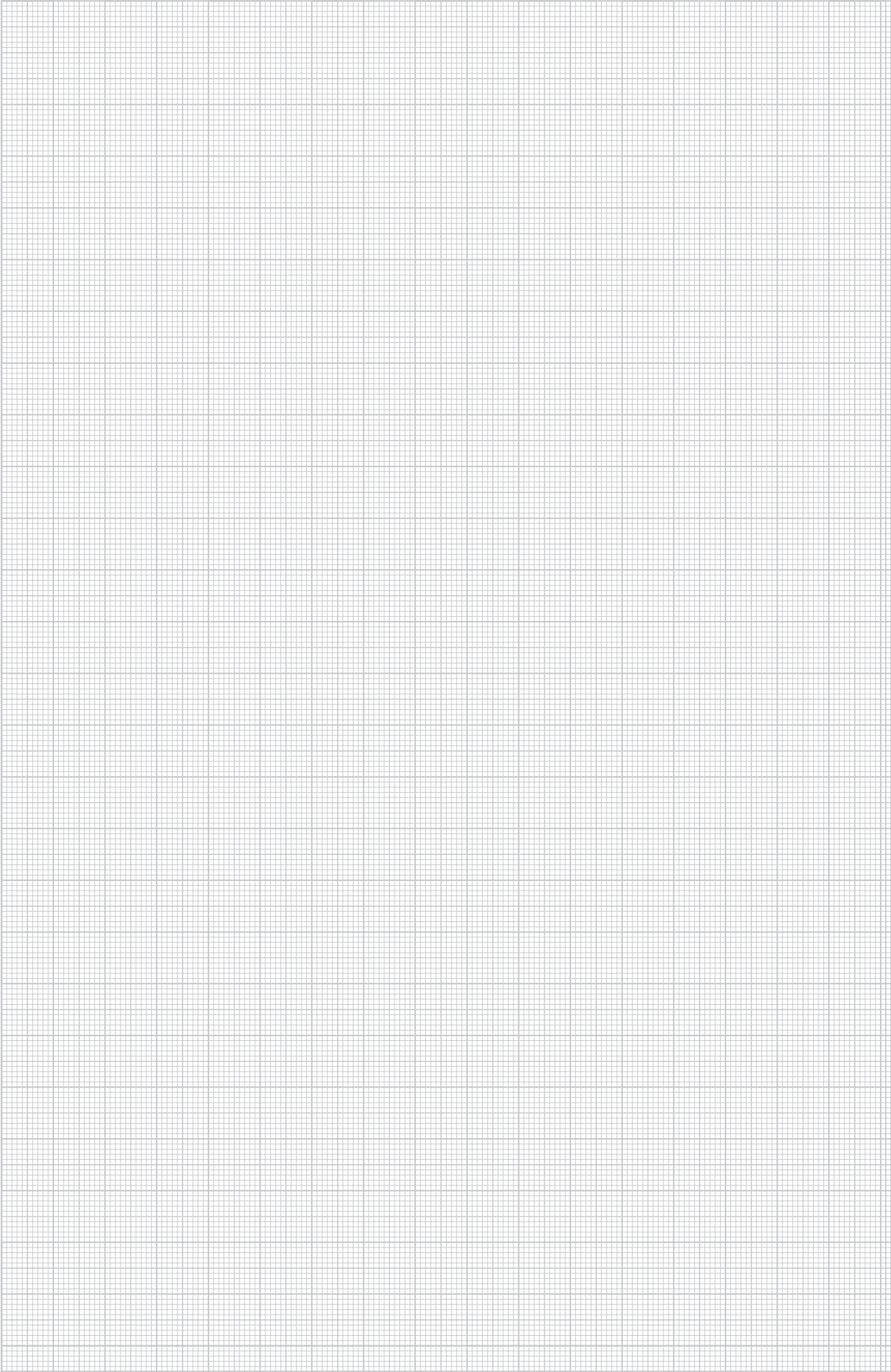
A5



Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M6 D12 A5	M6	6.4	12	1.6	100	0.114	3402308
WS M8 D16 A5	M8	8.4	16	1.6	100	0.214	3402316

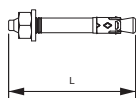
/100 pc.

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



Nail anchor N with thread, V4A

A4 2B



Type	Thread	Drill hole Ø mm	Drill hole depth mm	Fix- ture thick- ness mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
N 6-5/49 A4	M6	6	40	5	49	50	1.200	3498399

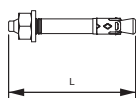
/100 pc.

The nail anchor N can be used for multiple fastenings of non-load-bearing systems, indoors and outdoors, in cracked and non-cracked concrete, thereby combining the benefits of a bolt tie with even easier mounting. The nail anchor only needs to be hammered into the drill hole. It is not necessary to apply torque subsequently. When the load occurs, the nail anchor spreads itself and bolts itself in the drill hole.

European technical approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.

Nail anchor N with thread, A5

A5



Type	Thread	Drill hole Ø mm	Drill hole depth mm	Fix- ture thick- ness mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
N 6-5/49 HCR	M6	6	40	5	49	50	1.200	3498398

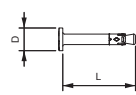
/100 pc.

The nail anchor N can be used for multiple fastenings of non-load-bearing systems in areas with highly corrosive impacts in cracked and non-cracked concrete, thereby combining the benefits of a bolt tie with even easier mounting. The nail anchor only needs to be hammered into the drill hole. It is not necessary to apply torque subsequently. When the load occurs, the nail anchor spreads itself and bolts itself in the drill hole.

European technical approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.

Nail anchor N-K with nail head, V4A

A4 2B



Type	Drill hole Ø mm	Drill hole depth mm	Fix- ture thick- ness mm	Dim. L mm	Dim. D mm	Pack Piece	Weight kg/100 pc.	Item no.
N-K 6-5/44 A4	6	40	5	44	13	50	1.100	3498393

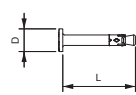
/100 pc.

The nail anchor N can be used for multiple fastenings of non-load-bearing systems, indoors and outdoors, in cracked and non-cracked concrete, thereby combining the benefits of a bolt tie with even easier mounting. The nail anchor only needs to be hammered into the drill hole. When the load occurs, the nail anchor spreads itself and bolts itself in the drill hole.

European technical approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.

Nail anchor N-K with nail head, A5

A5



Type	Drill hole Ø mm	Drill hole depth mm	Fix- ture thick- ness mm	Dim. L mm	Dim. D mm	Pack Piece	Weight kg/100 pc.	Item no.
N-K 6-5/44 HCR	6	40	5	44	13	50	1.135	3498392

/100 pc.

The nail anchor N can be used for multiple fastenings of non-load-bearing systems in areas with highly corrosive impacts in cracked and non-cracked concrete, thereby combining the benefits of a bolt tie with even easier mounting. The nail anchor only needs to be hammered into the drill hole. When the load occurs, the nail anchor spreads itself and bolts itself in the drill hole.

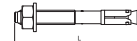
European technical approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.

A4 2B

Bolt tie BZ

Type	Drill hole Ø mm	Drill hole depth mm	Thread	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
BZ12-15-35/110A4	12	90	M12	110	25	10.440	3498352

/100 pc.



Bolt tie BZ for the anchoring of medium-duty to heavy-duty loads, indoors and outdoors, both in cracked and non-cracked concrete. It combines high approved loads with small edge distances and axial spacings.

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

Proof of suitability in the case of seismic impacts, categories C1 and C2.

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

A5

Bolt tie BZ

Type	Drill hole Ø mm	Drill hole depth mm	Thread	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
BZ 8-10-21/75HCR	8	60	M8	75	100	3.080	3498516
BZ10-10-30/90HCR	10	75	M10	90	50	6.040	3498556
BZ12-15-35/110HC	12	90	M12	110	25	10.200	3498666

/100 pc.



Bolt tie BZ for the anchoring of medium-duty to heavy-duty loads in areas with highly corrosive impacts, both in cracked and non-cracked concrete. It combines high approved loads with small edge distances and axial spacings.

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

Proof of suitability in the case of seismic impacts, categories C1 and C2.

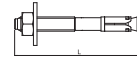
Shock approval by the Federal Office for Civil Protection in Bern, Switzerland.

A4 2B

Bolt tie BZ-U

Type	Drill hole Ø mm	Drill hole depth mm	Thread	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
BZ-U8-10-21/75A4	8	60	M8	75	50	3.460	3498322
BZ-U8-30-41/95A4	8	60	M8	95	50	4.090	3498328
BZU10-10-30/90A4	10	75	M10	90	50	6.740	3498336

/100 pc.



Bolt tie BZ for the anchoring of medium-duty to heavy-duty loads, indoors and outdoors, both in cracked and non-cracked concrete. It combines high approved loads with small edge distances and axial spacings.

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

Proof of suitability in the case of seismic impacts, categories C1 and C2.

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

A4

Impact tie, version with collar

Type	Thread	Drill hole Ø mm	Drill hole depth mm	Dim. L mm	Perm. load range, tension zone kN	Pack Piece	Weight kg/100 pc.	Item no.
ES M 8x30 A4	M8	10	30	30	1.7	50	1.100	3492003
ES M 10x40 A4	M10	12	40	40	2	50	2.000	3492008
ES M 12x50 A4	M12	15	50	50	2.4	50	4.300	3492012



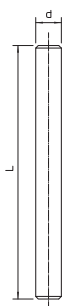
Impact tie for single fastening of non-load-bearing systems in non-cracked concrete as well as for multiple fastening in cracked and non-cracked concrete.

Tested to fire protection standards, fire resistance class R 120 according to European Technical Approval ETA-02/0020 (option 7) and European Technical Approval ETA-05/0116.

Mounting with marking and setting tool.

Threaded rod

VA VA 2B



Type	Thread	Dim. d mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
TR M6 1M A2	M6	6	1000	10	18.300	3141327
TR M8 1M A2	M8	8	1000	10	30.000	3141310
TR M10 1M A2	M10	10	1000	10	49.000	3141312
TR M12 1M A2	M12	12	1000	10	70.000	3141314
TR M6 2M A2	M6	6	2000	10	36.600	3141328
TR M8 2M A2	M8	8	2000	10	60.000	3141330
TR M10 2M A2	M10	10	2000	10	98.000	3141339
TR M12 2M A2	M12	12	2000	10	140.000	3141316
TR M6 1M A4	M6	6	1000	50	18.300	3141482
TR M8 1M A4	M8	8	1000	50	30.000	3141492
TR M10 1M A4	M10	10	1000	25	49.000	3141502
TR M12 1M A4	M12	12	1000	20	70.000	3141512
TR M6 2M A4	M6	6	2000	25	36.600	3141484
TR M8 2M A4	M8	8	2000	25	60.000	3141494
TR M10 2M A4	M10	10	2000	20	98.000	3141504
TR M12 2M A4	M12	12	2000	10	140.000	3141514

/100 pc.

Threaded rod to DIN 976.

Connection sleeve

VA 2B



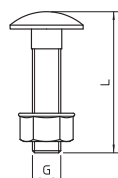
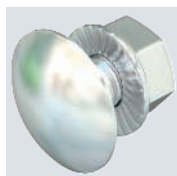
Type	Thread	Dim. L mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
CSTR M8 A2	M8	24	13	50	1.880	6410154
CSTR M10 A2	M10	30	17	50	4.150	6410162

/100 pc.

Connection sleeve with continuous internal thread.

Truss-head bolt with combination nut, V2A

A2 2B



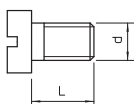
Type	Dimen- sion mm	Dim. D mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
FRSB M8x35 A2	M8x35	8	35	50	2.570	3175608
FRSB M10x20 A2	M10x20	10	20	50	3.000	3175620
FRSB M10x25 A2	M10x25	10	25	50	3.700	3175625

/100 pc.

Truss-head bolt with square neck and combination nut.

Cylinder head bolt A2

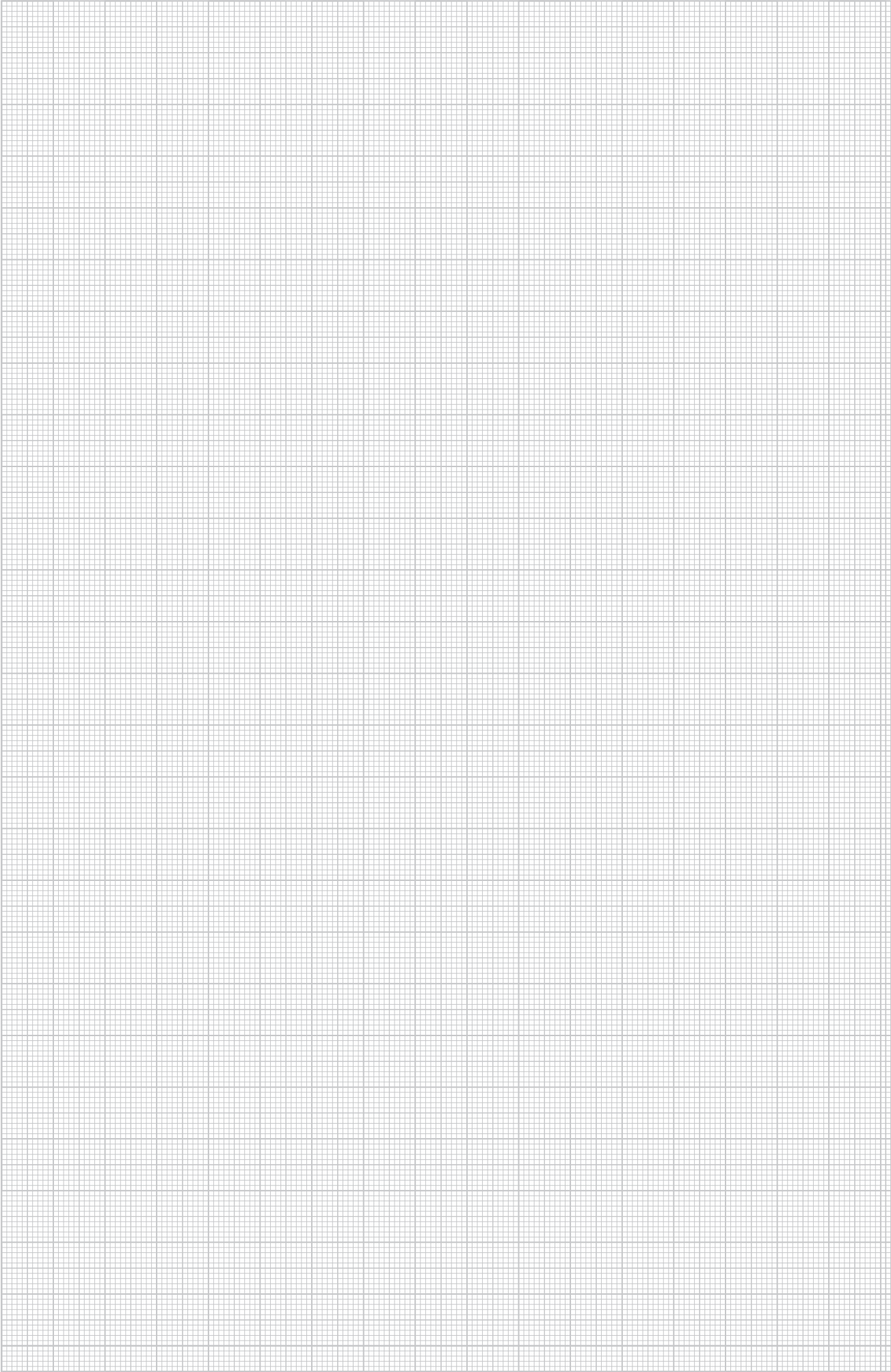
A2



Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
341 M6x16 A2	16	100	0.485	3168905

/100 pc.

Cylinder head bolt according to ISO 1207 with metric thread



Cable trays

Cable trays, plug connection

Cable trays



Cable trays, plug connection

88



Cable trays, screw connection

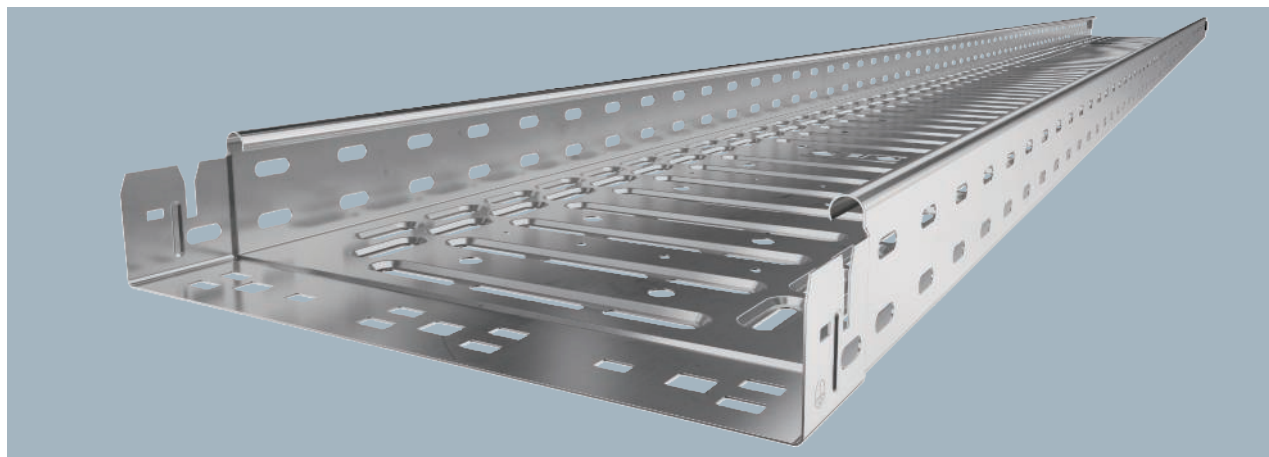
104

Cable trays, plug connection



Cable tray RKS-Magic® 60

VA 2B



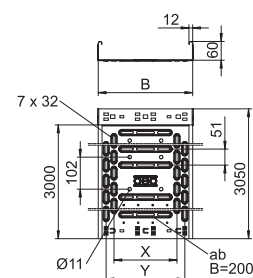
Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
RKSM 610 A2	100	0.75	3	149.259	6047613
RKSM 620 A2	200	0.75	3	205.148	6047640
RKSM 630 A2	300	0.75	3	264.111	6047656
RKSM 640 A2	400	0.90	3	364.489	6047691
RKSM 650 A2	500	0.90	3	431.929	6047721
RKSM 660 A2	600	0.90	3	499.482	6047737

price/m

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm. The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components. The perforation for direct threaded rod suspension has a diameter of 11 mm.

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

Dimensions

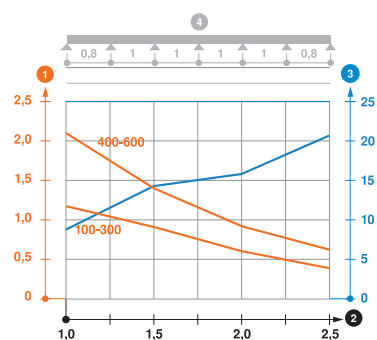


	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
RKSM 610 A2	1.2	0.9	0.6	0.4
RKSM 620 A2	1.2	0.9	0.6	0.4
RKSM 630 A2	1.2	0.9	0.6	0.4
RKSM 640 A2	2.1	1.35	0.9	0.6
RKSM 650 A2	2.1	1.35	0.9	0.6
RKSM 660 A2	2.1	1.35	0.9	0.6

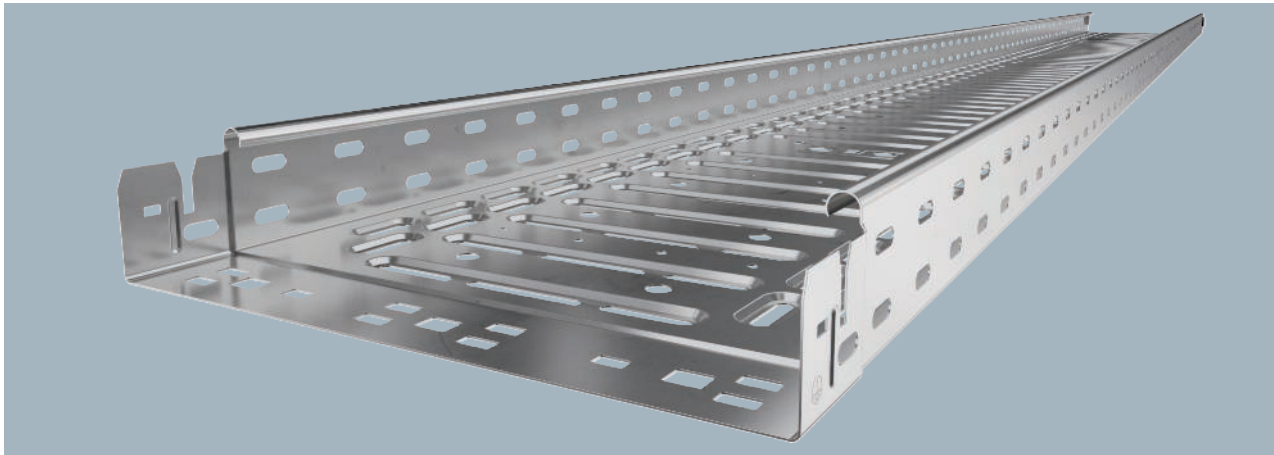
Load diagram, cable tray, type RKSM 60

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

Load



Cable tray RKS-Magic® 60

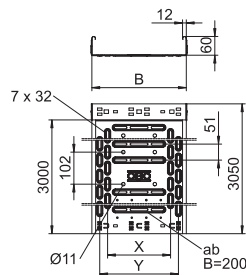


Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm. The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components. The perforation for direct threaded rod suspension has a diameter of 11 mm.

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

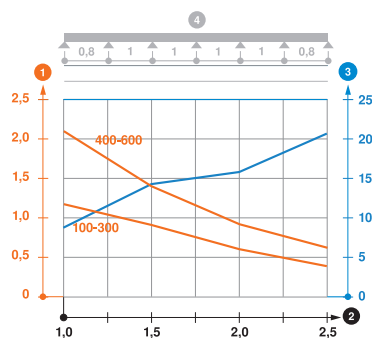
price/m

Dimensions



Type	Length mm	Dim. B mm	Usable cross- section cm²	Dim. x mm	Dim- en- sion y mm
RKSM 610 A4	3050	100	58	—	50
RKSM 620 A4	3050	200	118	100	150
RKSM 630 A4	3050	300	178	200	250
RKSM 640 A4	3050	400	238	300	350
RKSM 650 A4	3050	500	298	400	450
RKSM 660 A4	3050	600	358	450	550

Load



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

Load diagram, cable tray, type RKSM 60

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

Cable tray SKS-Magic® 60, unperforated

VA 2B



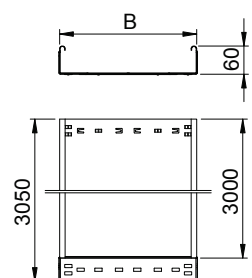
Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
SKSMU 610 A2	100	1.50	3	292.033	6059722
SKSMU 620 A2	200	1.50	3	411.533	6059726
SKSMU 630 A2	300	1.50	3	531.133	6059728
SKSMU 640 A2	400	1.50	3	650.733	6059730
SKSMU 650 A2	500	1.50	3	770.333	6059732
SKSMU 660 A2	600	1.50	3	889.967	6059734

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

price/m

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

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKSMU 610 A2	2.6	1.9	1.1	0.55
SKSMU 620 A2	2.6	1.9	1.1	0.55
SKSMU 630 A2	2.6	1.9	1.1	0.55
SKSMU 640 A2	2.6	1.9	1.1	0.55
SKSMU 650 A2	2.6	1.9	1.1	0.55
SKSMU 660 A2	2.6	1.9	1.1	0.55

Load diagram, cable tray, type SKSMU 60

① Permitted cable tray/ladder load in kN/m without man load

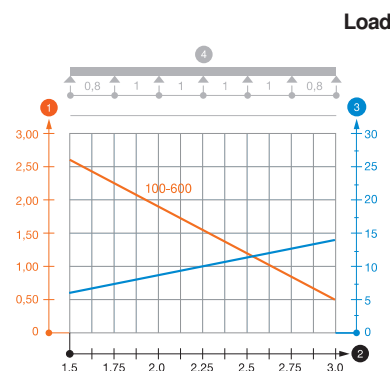
② Support width in m

③ Rail bend in mm at permitted kN/m

④ Load scheme during testing

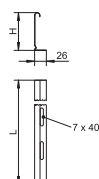
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width



Separating retainer 60

VA VA 2B



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

price/m

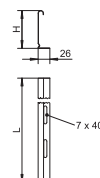
Separating retainer for the separation of cables of different voltages or functions.

VA VA 2B

Separating retainer 45

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

price/m



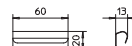
Separating retainer for separation of cables of different voltages or functions.

VA 2B

Separating retainer connector

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

/pc.



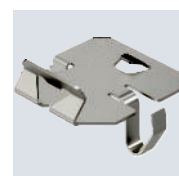
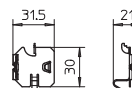
Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.

VA 2B

Hold-down clamp for separating retainer fastening in RKSM

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

/100 pc.



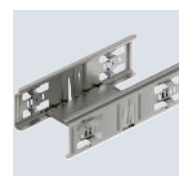
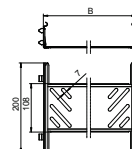
Hold-down clamp for screwless fastening of separating retainers in the cable tray types RKSM, MKS and SKS.

VA VA 2B

Magic straight connector set 60

Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
KTSMV 610 A2	60	100	1	30.500	6068958
KTSMV 620 A2	60	200	1	37.200	6068962
KTSMV 630 A2	60	300	1	44.000	6068964
KTSMV 640 A2	60	400	1	50.700	6068966
KTSMV 650 A2	60	500	1	57.400	6068968
KTSMV 660 A2	60	600	1	64.200	6068970
KTSMV 610 A4	60	100	1	30.500	6068980
KTSMV 620 A4	60	200	1	37.200	6068984
KTSMV 630 A4	60	300	1	44.000	6068986
KTSMV 640 A4	60	400	1	50.700	6068988
KTSMV 650 A4	60	500	1	57.400	6068990
KTSMV 660 A4	60	600	1	64.200	6068992

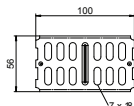
/pc.



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

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

Straight connector 60



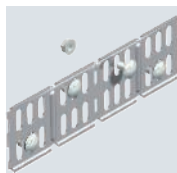
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVK 60 A2	60	10	9.780	6067654
RLVK 60 A4	60	10	9.780	6067675

/pc.

Including appropriate fastening material.

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

Straight and angle connector 60



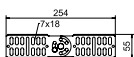
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RWVL 60 A2	60	10	16.200	6067662
RWVL 60 A4	60	10	16.200	6067664

/pc.

Including appropriate fastening material.

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

Adjustable connector 60



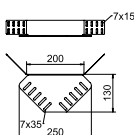
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 60 A2	60	10	25.100	7082258
RGV 60 A4	60	10	25.100	7082265

/pc.

Including appropriate fastening material.

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

Corner connector 60



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

/pc.

Fastening materials should be ordered separately.

Corner connector for cable trays with side height 60 mm.

VA VA 2B

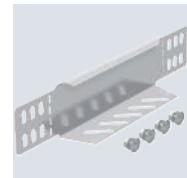
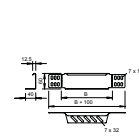
Reducer/stop-end 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 610 A2	60	100	1	12.500	7109814
RWEB 615 A2	60	150	1	18.000	7109816
RWEB 620 A2	60	200	1	22.900	7109830
RWEB 630 A2	60	300	1	31.200	7109857
RWEB 640 A2	60	400	1	37.300	7109873
RWEB 650 A2	60	500	1	48.100	7109903
RWEB 660 A2	60	600	1	56.100	7109938
RWEB 610 A4	60	95	1	13.200	7109951
RWEB 620 A4	60	195	1	24.000	7109953
RWEB 630 A4	60	295	1	32.100	7109955
RWEB 640 A4	60	395	1	41.300	7109957
RWEB 650 A4	60	495	1	49.400	7109959
RWEB 660 A4	60	595	1	57.400	7109961

/pc.

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

Reducer/stop-end plate for cable trays with side height 60 mm.



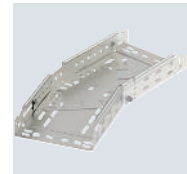
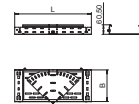
VA VA 2B

Magic 60 bend, variable

Type	Side height mm	Dim. B mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
RBMV 610 A2	60	100	340	1	76.400	6040520
RBMV 620 A2	60	200	490	1	163.600	6040524
RBMV 630 A2	60	300	640	1	386.300	6040526
RBMV 640 A2	60	400	820	1	578.000	6040528
RBMV 650 A2	60	500	960	1	986.000	6040530
RBMV 660 A2	60	600	1120	1	1,347.200	6040532
RBMV 610 A4	60	100	340	1	76.100	6040540
RBMV 620 A4	60	200	490	1	163.200	6040544
RBMV 630 A4	60	300	640	1	360.200	6040546
RBMV 640 A4	60	400	820	1	577.600	6040548
RBMV 650 A4	60	500	960	1	986.500	6040550
RBMV 660 A4	60	600	1120	1	1,346.800	6040552

/pc.

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



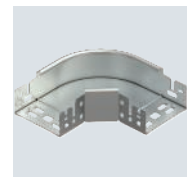
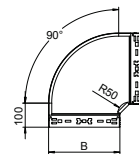
VA VA 2B

90° Magic bend 60

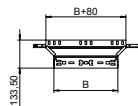
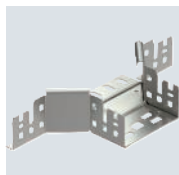
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 90 610 A2	60	100	1	65.700	6041180
RBM 90 620 A2	60	200	1	121.900	6041184
RBM 90 630 A2	60	300	1	192.200	6041186
RBM 90 640 A2	60	400	1	274.700	6041188
RBM 90 650 A2	60	500	1	376.300	6041190
RBM 90 660 A2	60	600	1	493.000	6041192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

/pc.

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



Magic add-on tee 60

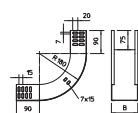
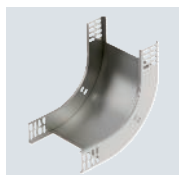


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAAM 610 A2	60	100	1	37.700	6041270
RAAM 620 A2	60	200	1	50.100	6041275
RAAM 630 A2	60	300	1	62.900	6041277
RAAM 640 A2	60	400	1	75.700	6041279
RAAM 650 A2	60	500	1	89.300	6041282
RAAM 660 A2	60	600	1	102.700	6041284
RAAM 610 A4	60	100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

/pc.

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

90° vertical bend, rising 60



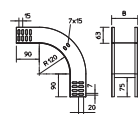
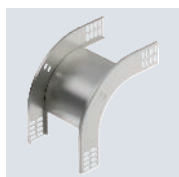
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 610 S A2	60	100	1	66.000	7007105
RBV 620 S A2	60	200	1	109.000	7007109
RBV 630 S A2	60	300	1	145.000	7007113
RBV 640 S A2	60	400	1	181.000	7007117
RBV 650 S A2	60	500	1	216.000	7007119
RBV 660 S A2	60	600	1	252.000	7007121
RBV 610 S A4	60	100	1	73.000	7006720
RBV 620 S A4	60	200	1	105.000	7006724
RBV 630 S A4	60	300	1	145.000	7006728
RBV 640 S A4	60	400	1	181.000	7006732
RBV 650 S A4	60	500	1	216.000	7006736
RBV 660 S A4	60	600	1	252.000	7006740

/pc.

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

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

90° vertical bend, falling 60



Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 610 F A2	60	100	1	61.000	7007155
RBV 620 F A2	60	200	1	84.000	7007157
RBV 630 F A2	60	300	1	107.000	7007159
RBV 640 F A2	60	400	1	130.000	7007161
RBV 650 F A2	60	500	1	153.000	7007163
RBV 660 F A2	60	600	1	176.000	7007165
RBV 610 F A4	60	100	1	61.000	7006750
RBV 620 F A4	60	200	1	84.000	7006754
RBV 630 F A4	60	300	1	107.000	7006758
RBV 640 F A4	60	400	1	130.000	7006762
RBV 650 F A4	60	500	1	153.000	7006766
RBV 660 F A4	60	600	1	176.000	7006770

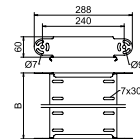
/pc.

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

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

Adjustable vertical bend element 60

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

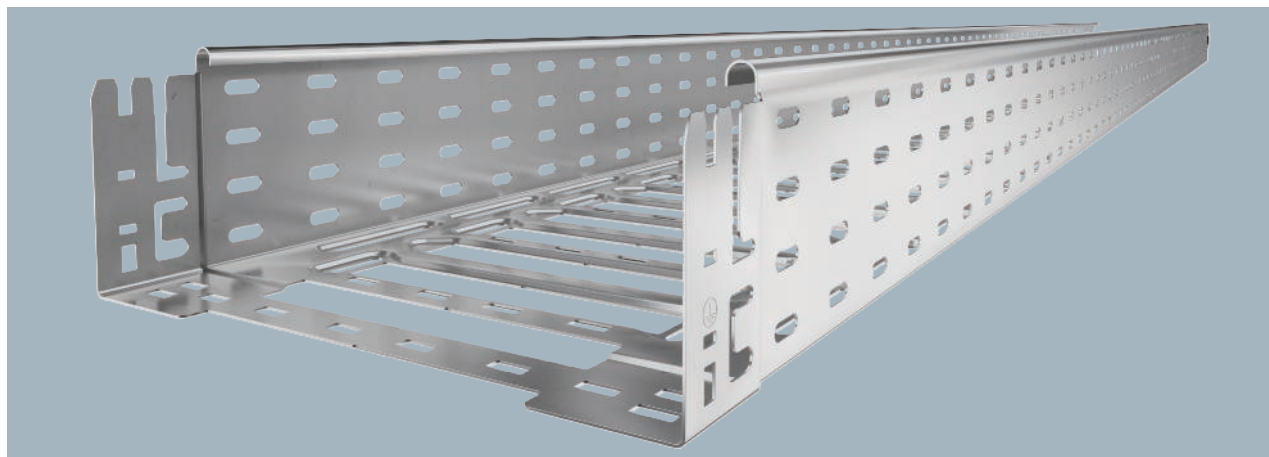


Adjustable vertical bend element, for all cable tray types with a side height of 60 mm.

RGV 60 adjustable connectors should be ordered separately and in the appropriate quantity.

Cable tray MKS-Magic® 110

VA 2B



Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
MKSM 110 A2	100	1.00	3	240.767	6059190
MKSM 120 A2	200	1.00	3	298.000	6059194
MKSM 130 A2	300	1.00	3	336.600	6059196
MKSM 140 A2	400	1.00	3	375.200	6059198
MKSM 150 A2	500	1.00	3	413.767	6059200
MKSM 160 A2	600	1.00	3	452.400	6059202

price/m

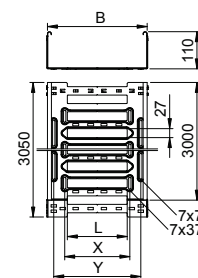
Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.

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

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

Type	Length mm	Dim. B mm	Usable cross- section cm ²	Dim. L mm	Dim. x mm	Dim. y mm
MKSM 110 A2	3050	100	108	30	—	62
MKSM 120 A2	3050	200	218	80	96	162
MKSM 130 A2	3050	300	328	180	196	262
MKSM 140 A2	3050	400	438	280	296	362
MKSM 150 A2	3050	500	548	380	396	462
MKSM 160 A2	3050	600	655	480	496	562

Dimensions



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

Load diagram, cable tray, type MKSM 110

① Permitted cable tray/ladder load in kN/m without man load

② Support width in m

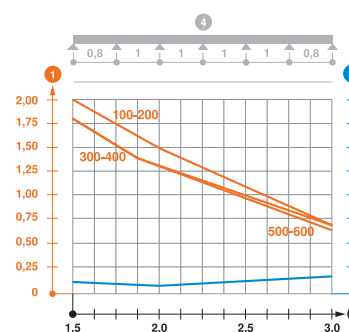
③ Rail bend in mm at permitted kN/m

④ Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Load



Cable tray MKS-Magic® 110, unperforated

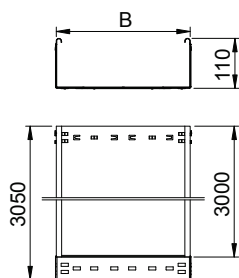


Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
MKSMU 110 A2	100	1.00	3	274.167	6059416
MKSMU 120 A2	200	1.00	3	353.833	6059420
MKSMU 130 A2	300	1.00	3	433.600	6059422
MKSMU 140 A2	400	1.00	3	513.333	6059424
MKSMU 150 A2	500	1.00	3	593.033	6059426
MKSMU 160 A2	600	1.00	3	672.800	6059428

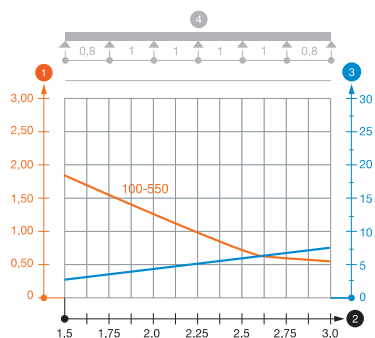
price/m

Dimensions



Type	Length mm	Dim. B mm	Usable cross- section cm²
MKSMU 110 A2	3050	100	108
MKSMU 120 A2	3050	200	218
MKSMU 130 A2	3050	300	328
MKSMU 140 A2	3050	400	438
MKSMU 150 A2	3050	500	548
MKSMU 160 A2	3050	600	655

Load



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

Load diagram, cable tray, type MKSMU 110

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

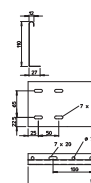
— Strut bend curve according to support width

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

price/m

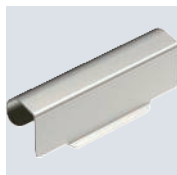
Barrier strip for separation of cables of different voltages or functions.

Barrier strip 110



Separating retainer connector

VA 2B



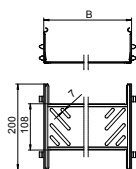
Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

/pc.

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

Magic straight connector set 110

VA 2B



Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
KTSMV 110 A2	100	1	44.100	6069134
KTSMV 120 A2	200	1	50.800	6069138
KTSMV 130 A2	300	1	57.600	6069140
KTSMV 140 A2	400	1	64.300	6069142
KTSMV 150 A2	500	1	71.000	6069144
KTSMV 160 A2	600	1	77.800	6069146

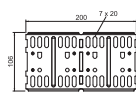
/pc.

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

Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 110 mm.

Straight and angle connector 110

VA 2B



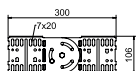
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVL 110 A2	110	10	33.400	6067948

/pc.

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

Adjustable connector 110

VA 2B



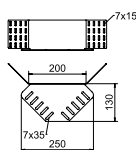
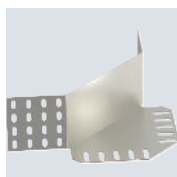
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 110 A2	110	4	61.700	7082479

/pc.

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

Corner connector 110

VA 2B



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

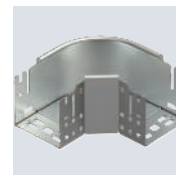
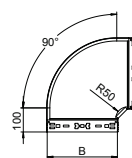
/pc.

Corner connector for cable trays with side height 110 mm.

VA 2B

90° Magic bend 110

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 90 110 A2	110	100	1	90.900	6041880
RBM 90 120 A2	110	200	1	154.900	6041882
RBM 90 130 A2	110	300	1	233.400	6041884
RBM 90 140 A2	110	400	1	323.600	6041886
RBM 90 150 A2	110	500	1	433.100	6041888
RBM 90 160 A2	110	600	1	558.000	6041890



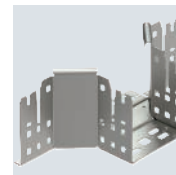
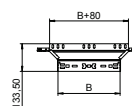
/pc.

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

VA 2B

Magic 110 add-on tee

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAAM 110 A2	110	100	1	53.700	6041960
RAAM 120 A2	110	200	1	66.300	6041962
RAAM 130 A2	110	300	1	79.200	6041964
RAAM 140 A2	110	400	1	92.200	6041966
RAAM 150 A2	110	500	1	105.100	6041968
RAAM 160 A2	110	600	1	118.400	6041970



/pc.

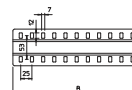
Add-on tee with quick connector system. For all cable tray types of 110 mm side height.

System accessories 60, 110

VA VA 2B

Joint plate

Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
SSLB 100 A2	100	20	7.700	7070353
SSLB 200 A2	200	20	18.500	7070361
SSLB 300 A2	300	20	29.200	7070365
SSLB 400 A2	400	20	38.200	7070369
SSLB 500 A2	500	20	49.000	7070373
SSLB 600 A2	600	20	58.000	7070381
SSLB 100 A4	100	20	7.700	7070390
SSLB 200 A4	200	20	18.500	7070392
SSLB 300 A4	300	20	29.200	7070394
SSLB 400 A4	400	20	38.200	7070396
SSLB 500 A4	500	20	49.000	7070398
SSLB 600 A4	600	20	58.000	7070400

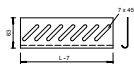


/pc.

Wide joint plate for use in all cable trays and wide span cable trays.

Including appropriate fastening material.

Bottom end plate



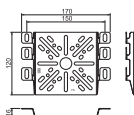
Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
BEB 100 A2	100	100	4.599	7084013
BEB 200 A2	200	100	9.367	7084048
BEB 300 A2	300	100	14.100	7084064
BEB 400 A2	400	100	18.900	7084080
BEB 500 A2	500	50	23.700	7084102
BEB 600 A2	600	50	28.400	7084129
BEB 100 A4	100	100	4.599	7084141
BEB 200 A4	200	100	9.367	7084143
BEB 300 A4	300	100	14.100	7084145
BEB 400 A4	400	100	18.900	7084147
BEB 500 A4	500	50	23.700	7084149
BEB 600 A4	600	50	28.400	7084151

/pc.

For fastening, please order screws, type FRSB M6x12, separately.

For base reinforcement at the ends of the tray and as cable protection.

Mounting plate



Type	Height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MP UNI A2	120	170	40	11.000	7085133

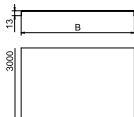
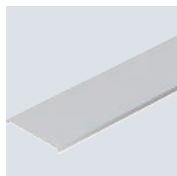
/pc.

Fastening on the side rail of the mesh cable tray is carried out without bolts by bending the lugs. Fastening on the side rail of cable trays or cable ladders is carried out with two truss-head bolts. Type B9/T junction boxes can be mounted very easily by inserting the bolt plug supplied into the centre hole on the mounting plate.

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

Mounting plate, for fastening on the side rail of cable support systems.

Unperforated cover



Type	Dim. B mm	Metal thick- ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRLU 100 A2	100	1.00	3000	3	99.000	6052824
DRLU 200 A2	200	1.00	3000	3	177.500	6052831
DRLU 300 A2	300	1.00	3000	3	256.000	6052834
DRLU 400 A2	400	1.00	3000	3	334.500	6052837
DRLU 500 A2	500	1.50	3000	3	619.167	6052841
DRLU 600 A2	600	1.50	3000	3	736.900	6052844
DRLU 100 A4	100	1.00	3000	3	99.000	6052991
DRLU 200 A4	200	1.00	3000	3	177.500	6052993
DRLU 300 A4	300	1.00	3000	3	256.000	6052994
DRLU 400 A4	400	1.00	3000	3	334.500	6052995
DRLU 500 A4	500	1.25	3000	3	619.170	6052996
DRLU 600 A4	600	1.25	3000	3	736.900	6052998

price/m

Transverse bead from 500 mm width.

Cover for cable trays and mesh cable trays.

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

Cover clamp



Type	Pack Piece	Weight kg/100 pc.	Item no.
DK DRLU A2	30	0.842	6052810

Cover clamp for secure fastening of covers on cable trays and cable ladders.

VA VA 2B

Cover with turn buckle

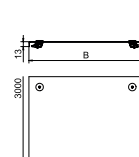
Type	Dim. B mm	Metal thick- ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL 100 A2	100	1.00	3000	3	105.070	6052878
DRL 200 A2	200	1.00	3000	3	183.500	6052894
DRL 300 A2	300	1.00	3000	3	262.240	6052908
DRL 400 A2	400	1.00	3000	3	340.400	6052932
DRL 500 A2	500	1.25	3000	3	625.340	6052959
DRL 600 A2	600	1.25	3000	3	743.240	6052975
DRL 100 A4	100	1.00	3000	3	105.070	6052980
DRL 200 A4	200	1.00	3000	3	183.570	6052981
DRL 300 A4	300	1.00	3000	3	262.240	6052983
DRL 400 A4	400	1.00	3000	3	341.240	6052984
DRL 500 A4	500	1.25	3000	3	624.900	6052985
DRL 600 A4	600	1.25	3000	3	743.240	6052986

price/m

Transverse bead from 500 mm width.

Cover for cable trays and cable ladders with three pairs of turn buckles.

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



VA 2B

Turn buckle for screwing

Type	Pack Piece	Weight kg/100 pc.	Item no.
DRL H S A2	20	3.260	6065016

Turn buckle for additional mounting or mounting at a later date.

Depending on the cover version, dimension B varies as follows:

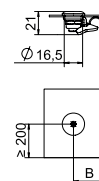
DRL / DRLU = 27 mm

DBKR = 27 mm

WDRL = 38 mm

WKLD = 58 mm

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



VA VA 2B

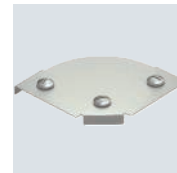
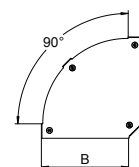
Cover for 90° Magic bend

Type	Dim. B mm	Metal thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFBM 90 100 A2	100	1.25	1	18.500	7138570
DFBM 90 200 A2	200	1.25	1	44.400	7138574
DFBM 90 300 A2	300	1.25	1	83.000	7138576
DFBM 90 400 A2	400	1.25	1	166.400	7138578
DFBM 90 500 A2	500	1.25	1	245.500	7138580
DFBM 90 600 A2	600	1.25	1	339.500	7138582
DFBM 90 100 A4	100	1.25	1	18.500	7138590
DFBM 90 200 A4	200	1.25	1	44.400	7138594
DFBM 90 300 A4	300	1.25	1	83.000	7138596
DFBM 90 400 A4	400	1.25	1	166.400	7138598
DFBM 90 500 A4	500	1.25	1	245.500	7138600

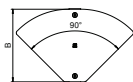
/pc.

The cover can be used with fittings of all side heights.

Cover for 90° bend with pre-mounted turn buckles.



Cover for variable Magic bend

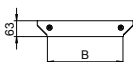


Type	Dim. B mm	Metal thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFBMV 100 A2	100	1.00	1	16.800	6040800
DFBMV 200 A2	200	1.00	1	41.300	6040804
DFBMV 300 A2	300	1.00	1	78.100	6040806
DFBMV 400 A2	400	1.25	1	158.100	6040808
DFBMV 500 A2	500	1.25	1	234.900	6040810
DFBMV 600 A2	600	1.25	1	327.200	6040812
DFBMV 100 A4	100	1.00	1	16.800	6040820
DFBMV 200 A4	200	1.00	1	41.300	6040824
DFBMV 300 A4	300	1.00	1	78.100	6040826
DFBMV 400 A4	400	1.25	1	158.100	6040828
DFBMV 500 A4	500	1.25	1	234.900	6040830
DFBMV 600 A4	600	1.25	1	327.200	6040832

/pc.

Cover for the variable bend, adjustable to an angle of 0 to 90°, locking through turn buckle and through overlapping with cable tray cover.

Cover for Magic add-on tee



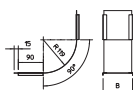
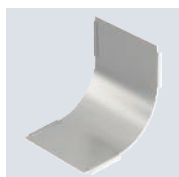
Type	Dim. B mm	Metal thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFAAM 100 A2	100	1.25	1	11.100	7138720
DFAAM 200 A2	200	1.25	1	14.500	7138724
DFAAM 300 A2	300	1.25	1	20.900	7138726
DFAAM 400 A2	400	1.25	1	31.700	7138728
DFAAM 500 A2	500	1.25	1	37.900	7138730
DFAAM 600 A2	600	1.25	1	44.100	7138732
DFAAM 100 A4	100	1.25	1	11.100	7138740
DFAAM 200 A4	200	1.25	1	14.500	7138744
DFAAM 300 A4	300	1.25	1	20.900	7138746
DFAAM 400 A4	400	1.25	1	31.700	7138748
DFAAM 500 A4	500	1.25	1	37.900	7138750
DFAAM 600 A4	600	1.25	1	44.100	7138752

/pc.

The cover can be used with fittings of all side heights.

Cover for add-on tee with pre-mounted turn buckles.

Cover for 90° vertical bend, rising



Type	Side height mm	Dim. B mm	Metal thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 100 S A2	60	100	0.75	1	34.000	7130905
DBV 200 S A2	60	200	0.75	1	39.000	7130907
DBV 300 S A2	60	300	0.75	1	49.000	7130909
DBV 400 S A2	60	400	0.75	1	68.000	7130911
DBV 500 S A2	60	500	0.75	1	86.000	7130913
DBV 600 S A2	60	600	0.75	1	105.000	7130915
DBV 100 S A4	60	100	0.75	1	21.000	7130920
DBV 200 S A4	60	200	0.75	1	39.000	7130922
DBV 300 S A4	60	300	0.75	1	49.000	7130924
DBV 400 S A4	60	400	0.75	1	68.000	7130926
DBV 500 S A4	60	500	0.75	1	86.000	7130928
DBV 600 S A4	60	600	0.75	1	105.000	7130930

/pc.

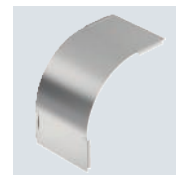
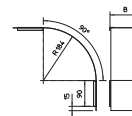
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Cover for all rising vertical bends.

VA VA 2B

Cover for 90° vertical bend 60, falling

Type	Side height mm	Dim. B mm	Metal thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 60 100 F A2	60	100	0.75	1	42.100	7130952
DBV 60 200 F A2	60	200	0.75	1	81.300	7130954
DBV 60 300 F A2	60	300	0.75	1	120.400	7130956
DBV 60 400 F A2	60	400	0.75	1	159.600	7130958
DBV 60 500 F A2	60	500	0.75	1	198.800	7130960
DBV 60 600 F A2	60	600	0.75	1	238.000	7130962
DBV 60 100 F A4	60	100	0.75	1	42.100	7130972
DBV 60 200 F A4	60	200	0.75	1	81.300	7130974
DBV 60 300 F A4	60	300	0.75	1	120.400	7130976
DBV 60 400 F A4	60	400	0.75	1	159.600	7130978
DBV 60 500 F A4	60	500	0.75	1	198.800	7130980
DBV 60 600 F A4	60	600	0.75	1	238.000	7130982



/pc.

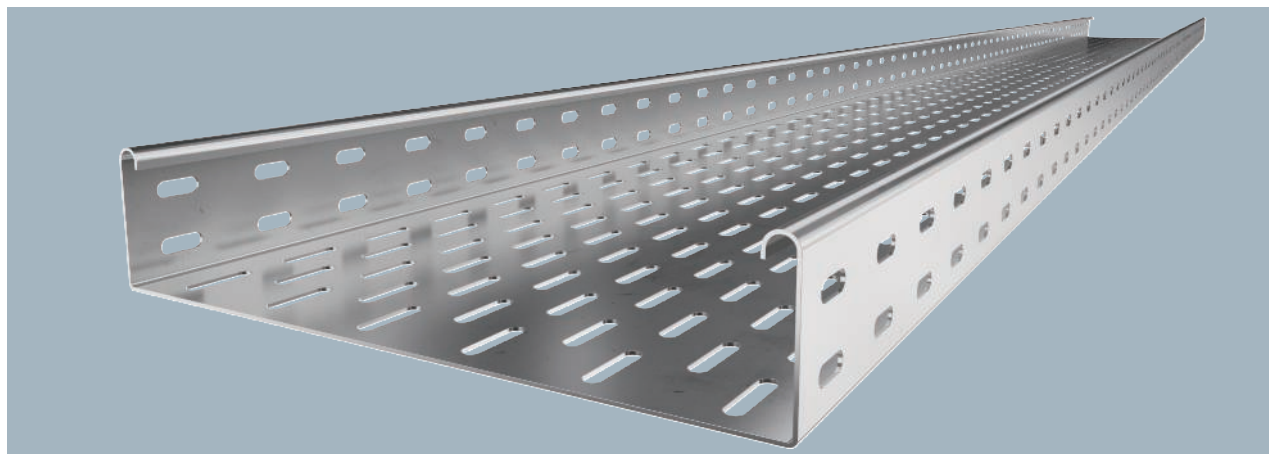
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Cover for falling vertical bends of side height 60 mm.



Cable tray SKS 60

VA 2B



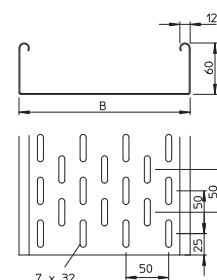
Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
SKS 610 A2	100	1.50	3	260.000	6056735
SKS 620 A2	200	1.50	3	356.667	6056737
SKS 630 A2	300	1.50	3	455.333	6056739
SKS 640 A2	400	1.50	3	553.667	6056742
SKS 650 A2	500	1.50	3	651.333	6056744
SKS 660 A2	600	1.50	3	749.333	6056746

price/m

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

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

Dimensions

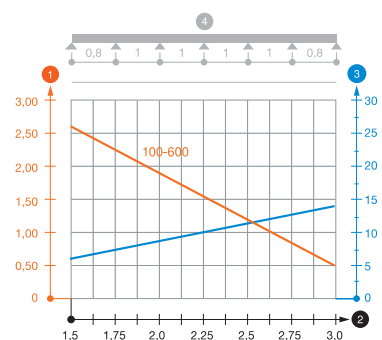


	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKS 610 A2	2.65	1.8	1.15	0.5
SKS 620 A2	2.65	1.8	1.15	0.5
SKS 630 A2	2.65	1.8	1.15	0.5
SKS 640 A2	2.65	1.8	1.15	0.5
SKS 650 A2	2.65	1.8	1.15	0.5
SKS 660 A2	2.65	1.8	1.15	0.5

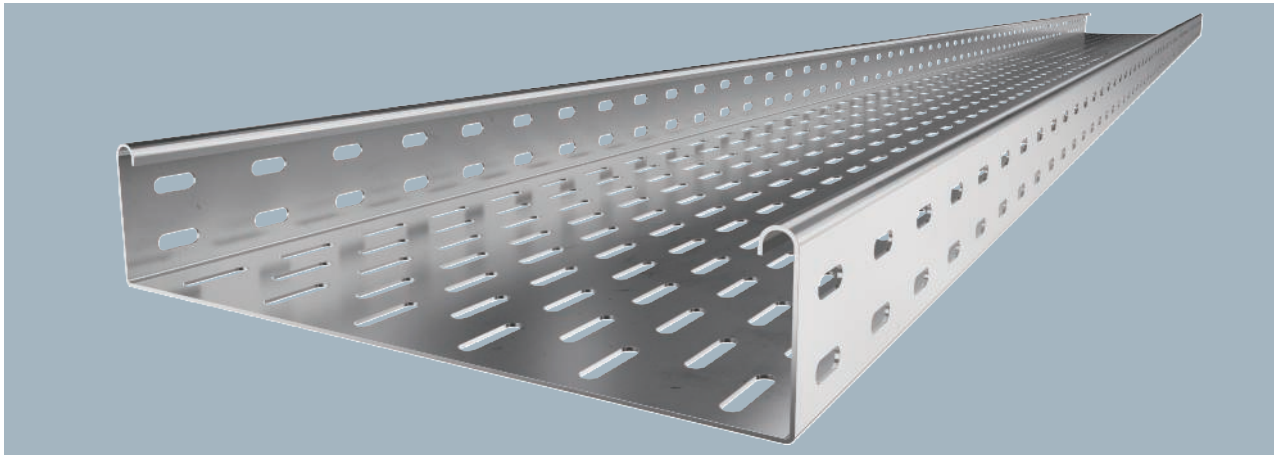
Load diagram, cable tray, type SKS 60

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

Load



Cable tray SKS 60



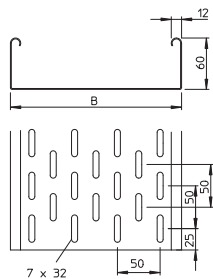
The cable tray, type SKS, should also be used for maintenance of electrical function. For additional data, please refer to BSS fire protection systems. The cable tray is fastened to the bracket with bolts, type FRS M6 x 12.

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

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

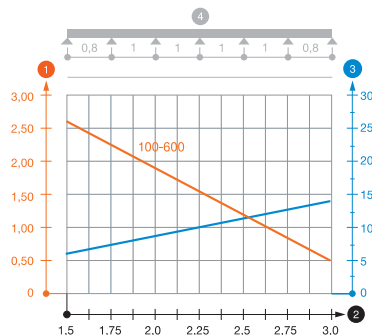
price/m

Dimensions



Type	Length mm	Dim. B mm	Usable cross- section cm²
SKS 610 A4	3000	100	58
SKS 620 A4	3000	200	118
SKS 630 A4	3000	300	178
SKS 640 A4	3000	400	238
SKS 650 A4	3000	500	298
SKS 660 A4	3000	600	358

Load



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

Load diagram, cable tray SKS 60 VA

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

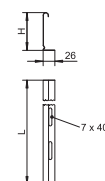
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Separating retainer 60

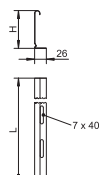
Type	Dim. H mm	Metal thick- ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 60 A2	60	0.75	3000	3	55.660	6062084
TSG 60 A4	60	0.75	3000	3	55.670	6062086

price/m



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

Separating retainer 45



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

price/m

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

Separating retainer connector

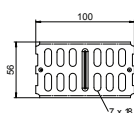


Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

/pc.

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

Straight connector 60



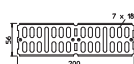
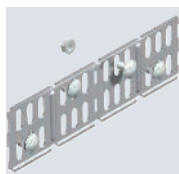
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVK 60 A2	60	10	9.780	6067654
RLVK 60 A4	60	10	9.780	6067675

/pc.

Including appropriate fastening material.

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

Straight and angle connector 60



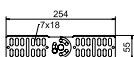
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RWVL 60 A2	60	10	16.200	6067662
RWVL 60 A4	60	10	16.200	6067664

/pc.

Including appropriate fastening material.

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

Adjustable connector 60



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

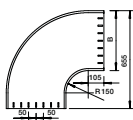
/pc.

Including appropriate fastening material.

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

90° bend 60

VA VA 2B



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

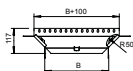
/pc.

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

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

Add-on tee 60

VA VA 2B



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

/pc.

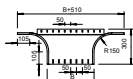
Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height.

The fitting is shipped in an unmounted state.

Including appropriate fastening material.

Add-on tee 60

VA VA 2B



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

/pc.

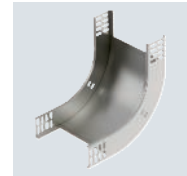
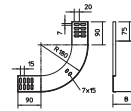
Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height.

Fastening materials should be ordered separately.

VA VA 2B

90° vertical bend, rising 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 610 S A2	60	100	1	66.000	7007105
RBV 620 S A2	60	200	1	109.000	7007109
RBV 630 S A2	60	300	1	145.000	7007113
RBV 640 S A2	60	400	1	181.000	7007117
RBV 650 S A2	60	500	1	216.000	7007119
RBV 660 S A2	60	600	1	252.000	7007121
RBV 610 S A4	60	100	1	73.000	7006720
RBV 620 S A4	60	200	1	105.000	7006724
RBV 630 S A4	60	300	1	145.000	7006728
RBV 640 S A4	60	400	1	181.000	7006732
RBV 650 S A4	60	500	1	216.000	7006736
RBV 660 S A4	60	600	1	252.000	7006740



/pc.

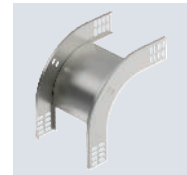
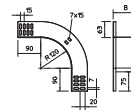
90° rising vertical bend, for all cable tray types of 60 mm side height.

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

VA VA 2B

90° vertical bend, falling 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 610 F A2	60	100	1	61.000	7007155
RBV 620 F A2	60	200	1	84.000	7007157
RBV 630 F A2	60	300	1	107.000	7007159
RBV 640 F A2	60	400	1	130.000	7007161
RBV 650 F A2	60	500	1	153.000	7007163
RBV 660 F A2	60	600	1	176.000	7007165
RBV 610 F A4	60	100	1	61.000	7006750
RBV 620 F A4	60	200	1	84.000	7006754
RBV 630 F A4	60	300	1	107.000	7006758
RBV 640 F A4	60	400	1	130.000	7006762
RBV 650 F A4	60	500	1	153.000	7006766
RBV 660 F A4	60	600	1	176.000	7006770

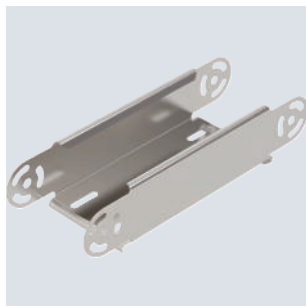


/pc.

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

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

Adjustable vertical bend element 60

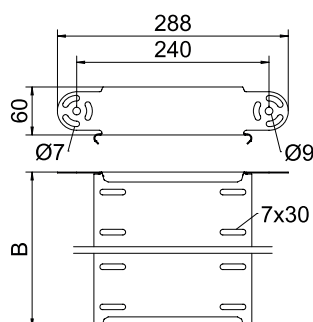


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBEV 610 A2	60	1	53.300	7075651
RGBEV 620 A2	60	1	74.100	7075653
RGBEV 630 A2	60	1	94.800	7075655
RGBEV 640 A2	60	1	115.500	7075657
RGBEV 650 A2	60	1	136.200	7075659
RGBEV 660 A2	60	1	157.000	7075661
RGBEV 610 A4	60	1	54.000	7075671
RGBEV 620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

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

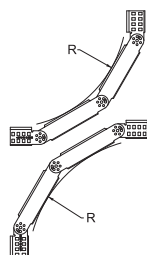
RGV 60 adjustable connectors should be ordered separately and in the appropriate quantity.

Dimensions



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

Installation



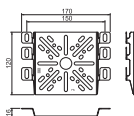
Radius table

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

Please order two RGV 60 articulated connectors separately.

System accessories 60

Mounting plate



Type	Height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MP UNI A2	120	170	40	11.000	7085133

/pc.

Fastening on the side rail of the mesh cable tray is carried out without bolts by bending the lugs. Fastening on the side rail of cable trays or cable ladders is carried out with two truss-head bolts. Type B9/T junction boxes can be mounted very easily by inserting the bolt plug supplied into the centre hole on the mounting plate.

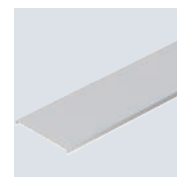
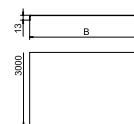
Please order the bolt, type FRSB 6 x 12, separately.

Mounting plate, for fastening on the side rail of cable support systems.

VA VA 2B

Unperforated cover

Type	Dim. B mm	Metal thick- ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRLU 100 A2	100	1.00	3000	3	99.000	6052824
DRLU 200 A2	200	1.00	3000	3	177.500	6052831
DRLU 300 A2	300	1.00	3000	3	256.000	6052834
DRLU 400 A2	400	1.00	3000	3	334.500	6052837
DRLU 500 A2	500	1.50	3000	3	619.167	6052841
DRLU 600 A2	600	1.50	3000	3	736.900	6052844
DRLU 100 A4	100	1.00	3000	3	99.000	6052991
DRLU 200 A4	200	1.00	3000	3	177.500	6052993
DRLU 300 A4	300	1.00	3000	3	256.000	6052994
DRLU 400 A4	400	1.00	3000	3	334.500	6052995
DRLU 500 A4	500	1.25	3000	3	619.170	6052996
DRLU 600 A4	600	1.25	3000	3	736.900	6052998



price/m

Transverse bead from 500 mm width.

Cover for cable trays and mesh cable trays.

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

Cable trays, screw connection



VA 2B

Cover clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
DK DRLU A2	30	0.842	6052810

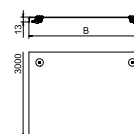
Cover clamp for secure fastening of covers on cable trays and cable ladders.



VA VA 2B

Cover with turn buckle

Type	Dim. B mm	Metal thick- ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL 100 A2	100	1.00	3000	3	105.070	6052878
DRL 200 A2	200	1.00	3000	3	183.500	6052894
DRL 300 A2	300	1.00	3000	3	262.240	6052908
DRL 400 A2	400	1.00	3000	3	340.400	6052932
DRL 500 A2	500	1.25	3000	3	625.340	6052959
DRL 600 A2	600	1.25	3000	3	743.240	6052975
DRL 100 A4	100	1.00	3000	3	105.070	6052980
DRL 200 A4	200	1.00	3000	3	183.570	6052981
DRL 300 A4	300	1.00	3000	3	262.240	6052983
DRL 400 A4	400	1.00	3000	3	341.240	6052984
DRL 500 A4	500	1.25	3000	3	624.900	6052985
DRL 600 A4	600	1.25	3000	3	743.240	6052986



price/m

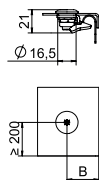
Transverse bead from 500 mm width.

Cover for cable trays and cable ladders with three pairs of turn buckles.

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

Turn buckle for screwing

VA 2B



Type

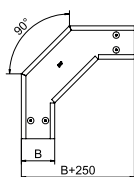
DRL H S A2

Pack Piece	Weight kg/100 pc.	Item no.
20	3.260	6065016

Turn buckle for additional mounting or mounting at a later date.
Depending on the cover version, dimension B varies as follows:
DRL / DRLU = 27 mm
DBKR = 27 mm
WDRL = 38 mm
WKLD = 58 mm
Single-sided turn buckle. Use for cover widths of 100–600 mm.

Cover for 90° bend

VA VA 2B



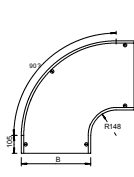
Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 90 100 A2	100	1.00	1	65.000	7134908
DFB 90 200 A2	200	1.00	1	60.000	7134916
DFB 90 300 A2	300	1.00	1	102.200	7134924
DFB 90 100 A4	100	1.00	1	65.000	7134982
DFB 90 200 A4	200	1.00	1	60.000	7134988
DFB 90 300 A4	300	1.00	1	102.200	7134990

/pc.

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

Cover for 90° bend

VA VA 2B



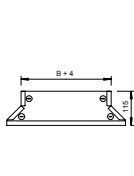
Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 90 400 A2	400	1.25	1	340.000	7134932
DFB 90 500 A2	500	1.25	1	470.000	7134940
DFB 90 600 A2	600	1.25	1	589.700	7134967
DFB 90 400 A4	400	1.25	1	340.000	7134992
DFB 90 500 A4	500	1.25	1	470.000	7134994
DFB 90 600 A4	600	1.25	1	589.700	7134996

/pc.

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

Cover for add-on tee

VA VA 2B



Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFAA 100 A2	100	1.00	1	26.700	7136900
DFAA 200 A2	200	1.00	1	35.800	7136919
DFAA 300 A2	300	1.00	1	44.800	7136927
DFAA 100 A4	100	1.00	1	26.000	7136902
DFAA 200 A4	200	1.00	1	35.800	7136921
DFAA 300 A4	300	1.00	1	44.800	7136929

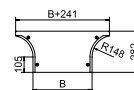
/pc.

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

VA VA 2B

Cover for add-on tee

Type	Dim. B mm	Metal thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFAA 400 A2	400	1.25	1	176.800	7136935
DFAA 500 A2	500	1.25	1	208.000	7136943
DFAA 600 A2	600	1.25	1	240.000	7136978
DFAA 400 A4	400	1.25	1	176.800	7136937
DFAA 500 A4	500	1.25	1	210.000	7136944
DFAA 600 A4	600	1.25	1	243.300	7136980



/pc.

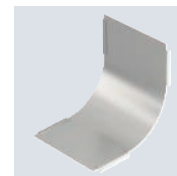
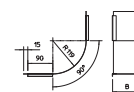
The cover can be used with fittings of all side heights.

Cover for add-on tee with pre-mounted turn buckles.

VA VA 2B

Cover for 90° vertical bend, rising

Type	Side height mm	Dim. B mm	Metal thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 100 S A2	60	100	0.75	1	34.000	7130905
DBV 200 S A2	60	200	0.75	1	39.000	7130907
DBV 300 S A2	60	300	0.75	1	49.000	7130909
DBV 400 S A2	60	400	0.75	1	68.000	7130911
DBV 500 S A2	60	500	0.75	1	86.000	7130913
DBV 600 S A2	60	600	0.75	1	105.000	7130915
DBV 100 S A4	60	100	0.75	1	21.000	7130920
DBV 200 S A4	60	200	0.75	1	39.000	7130922
DBV 300 S A4	60	300	0.75	1	49.000	7130924
DBV 400 S A4	60	400	0.75	1	68.000	7130926
DBV 500 S A4	60	500	0.75	1	86.000	7130928
DBV 600 S A4	60	600	0.75	1	105.000	7130930



/pc.

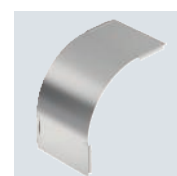
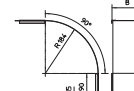
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Cover for all rising vertical bends.

VA VA 2B

Cover for 90° vertical bend 60, falling

Type	Side height mm	Dim. B mm	Metal thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 60 100 F A2	60	100	0.75	1	42.100	7130952
DBV 60 200 F A2	60	200	0.75	1	81.300	7130954
DBV 60 300 F A2	60	300	0.75	1	120.400	7130956
DBV 60 400 F A2	60	400	0.75	1	159.600	7130958
DBV 60 500 F A2	60	500	0.75	1	198.800	7130960
DBV 60 600 F A2	60	600	0.75	1	238.000	7130962
DBV 60 100 F A4	60	100	0.75	1	42.100	7130972
DBV 60 200 F A4	60	200	0.75	1	81.300	7130974
DBV 60 300 F A4	60	300	0.75	1	120.400	7130976
DBV 60 400 F A4	60	400	0.75	1	159.600	7130978
DBV 60 500 F A4	60	500	0.75	1	198.800	7130980
DBV 60 600 F A4	60	600	0.75	1	238.000	7130982



/pc.

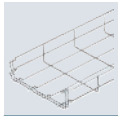
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Cover for falling vertical bends of side height 60 mm.

Mesh cable trays

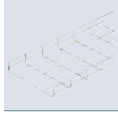
Mesh cable trays, plug connection

Mesh cable trays



Mesh cable trays, plug connection

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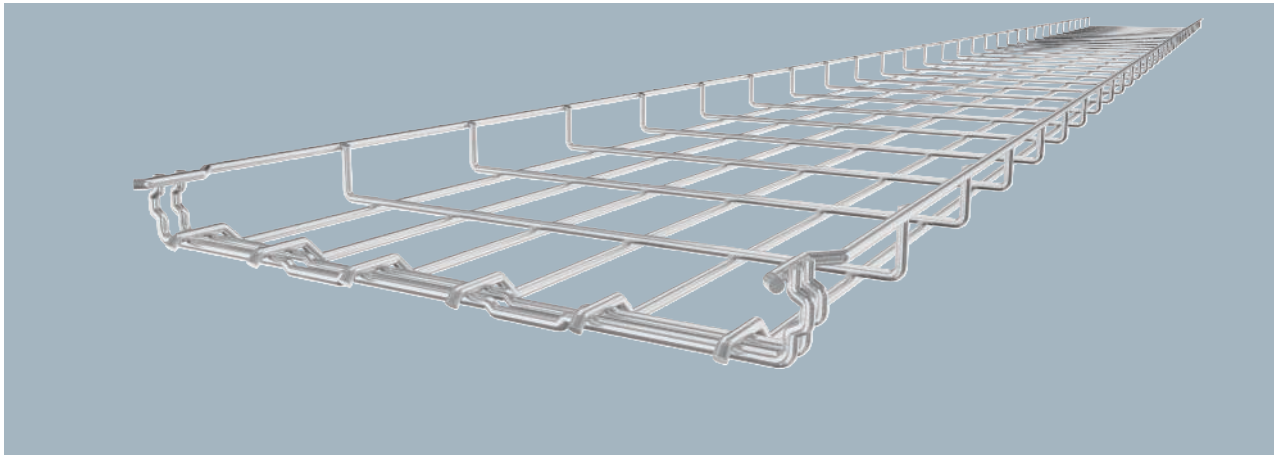
Mesh cable trays, screw connection

144



Mesh cable tray GR-Magic®

VA 2B



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

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).

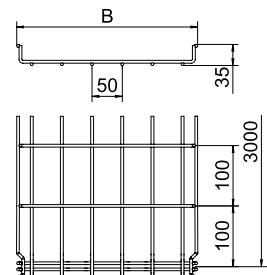
Mesh cable tray with shaped connector of side height 35 mm.

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

price/m

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

Dimensions

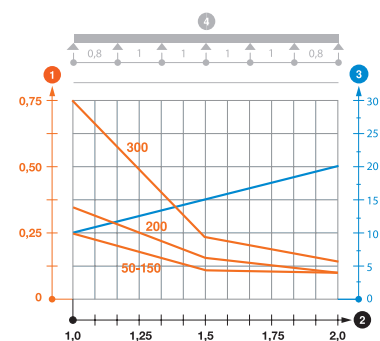


	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
GRM 35 50 A2	0.25	0.11	0.1
GRM 35 100 A2	0.25	0.11	0.1

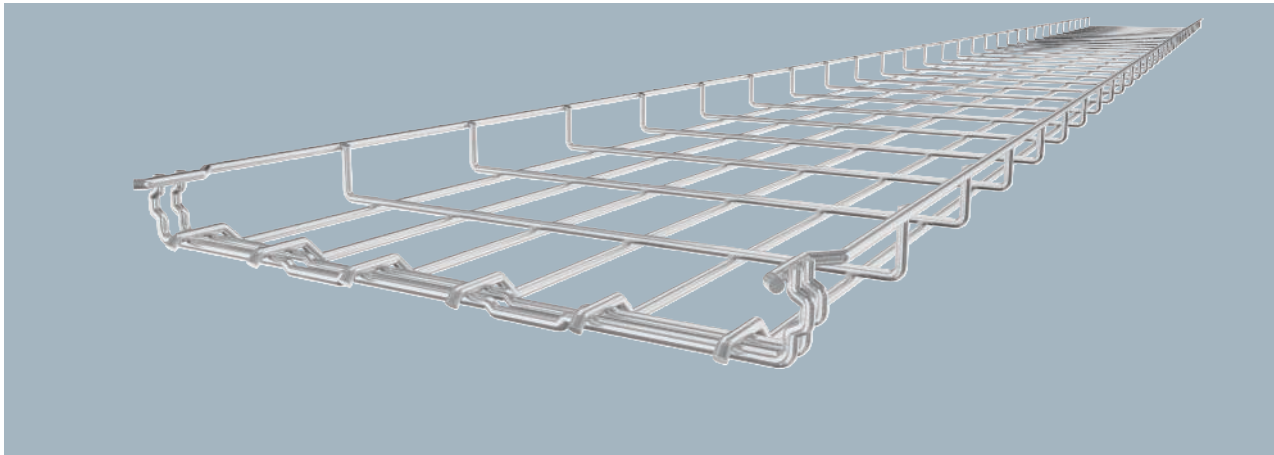
Load diagram, GR-Magic mesh cable tray, type GRM 35

- 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

Load



Mesh cable tray GR-Magic® 35

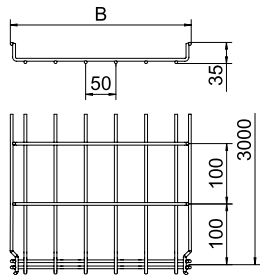


No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 35/50 = 20 x 100 mm).
 Mesh cable tray with shaped connector of side height 35 mm.
 Magnetic shield insulation without cover 15 dB, with cover 25 dB.

Type	Wire		Pack m	Weight kg/100 m	Item no.
	Width mm	Ø mm			
GRM 35 50 A4	50	3.9	3	45.000	6000086
GRM 35 100 A4	100	3.9	3	49.000	6000087

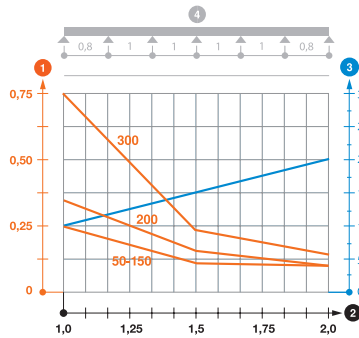
price/m

Dimensions



Type	Length mm	Usable	
		Dim. B mm	cross-section cm²
GRM 35 50 A4	3000	52	17.5
GRM 35 100 A4	3000	100	35

Load



	1.0 m	1.5 m	2.0 m
	kN/m	kN/m	kN/m
GRM 35 50 A4	0.25	0.11	0.1
GRM 35 100 A4	0.25	0.11	0.1

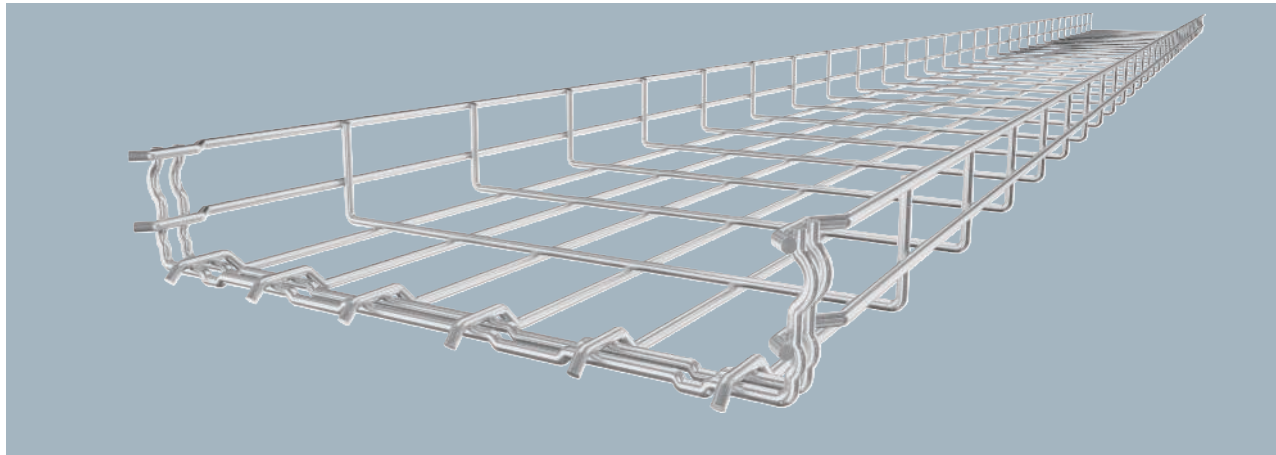
Load diagram, GR-Magic mesh cable tray, type GRM 35

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



Mesh cable tray GR-Magic® 55

VA 2B



Type	Width mm	Wire Ø mm	BS	Pack m	Weight kg/100 m	Item no.
GRM 55 50 A2	50	3.9		3	67.000	6001070
GRM 55 100 A2	100	3.9		3	72.000	6001072
GRM 55 150 A2	150	3.9		3	85.667	6001074
GRM 55 200 A2	200	3.9		3	99.000	6001076
GRM 55 300 A2	300	4.8	🔥	3	192.333	6001078
GRM 55 400 A2	400	4.8		3	234.667	6001080
GRM 55 500 A2	500	4.8		3	276.667	6001082
GRM 55 600 A2	600	4.8		3	320.000	6001085

price/m

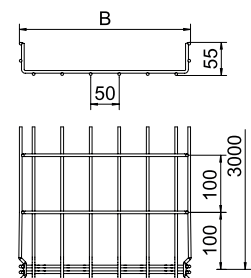
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 55/50 = 20 x 100 mm).

Mesh cable tray with shaped connector of side height 55 mm.

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

Type	Length mm	Dim. B mm	Usable 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

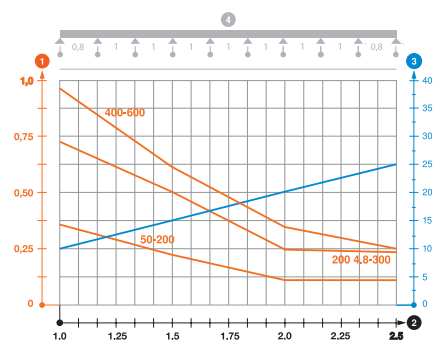


	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
GRM 55 50 A2	0.35	0.2	0.1	0.1
GRM 55 100 A2	0.35	0.2	0.1	0.1
GRM 55 150 A2	0.35	0.2	0.1	0.1
GRM 55 200 A2	0.35	0.2	0.1	0.1
GRM 55 300 A2	0.7	0.5	0.25	0.2
GRM 55 400 A2	0.9	0.6	0.3	0.25
GRM 55 500 A2	0.9	0.6	0.3	0.25
GRM 55 600 A2	0.9	0.6	0.3	0.25

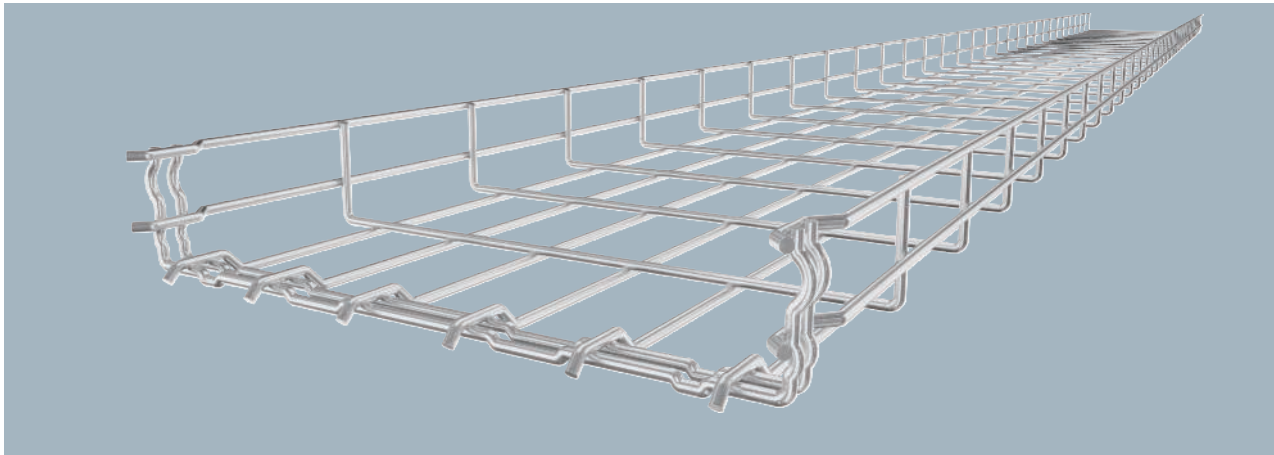
Load diagram, mesh cable tray GRM 55 VA

- 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

Load



Mesh cable tray GR-Magic® 55



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

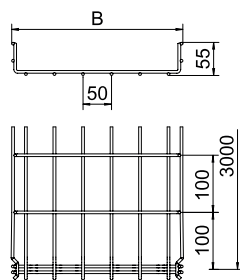
Mesh cable tray with shaped connector of side height 55 mm.

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

Type	Width mm	Wire Ø mm	BS	Pack m	Weight kg/100 m	Item no.
GRM 55 50 A4	50	3.9		3	67.000	6001087
GRM 55 100 A4	100	3.9		3	72.000	6001088
GRM 55 150 A4	150	3.9		3	85.667	6001090
GRM 55 200 A4	200	3.9		3	99.000	6001091
GRM 55 300 A4	300	4.8	🔥	3	192.333	6001093
GRM 55 400 A4	400	4.8		3	234.667	6001095
GRM 55 500 A4	500	4.8		3	276.667	6001097
GRM 55 600 A4	600	4.8		3	320.000	6001099

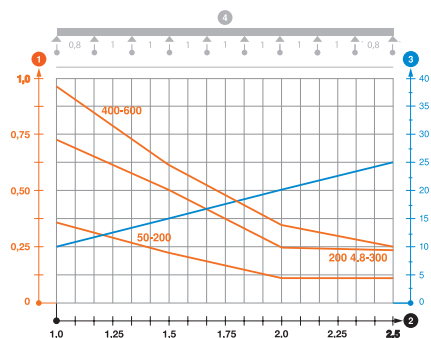
price/m

Dimensions



Type	Length mm	Usable Dim. B mm	cross- section cm²
GRM 55 50 A4	3000	52	16
GRM 55 100 A4	3000	100	40
GRM 55 150 A4	3000	150	63
GRM 55 200 A4	3000	200	87
GRM 55 300 A4	3000	300	129
GRM 55 400 A4	3000	400	175
GRM 55 500 A4	3000	500	220
GRM 55 600 A4	3000	600	265

Load



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

Load diagram, mesh cable tray GRM 55 VA

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

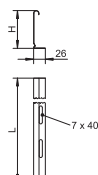
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width



Separating retainer 45

VA VA 2B



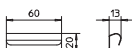
Type	Dim. H mm	Metal thick- ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 45 A2	45	0.75	3000	3	46.812	6062025
TSG 45 A4	45	0.75	3000	3	46.812	6062028

price/m

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

Separating retainer connector

VA 2B



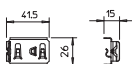
Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

/pc.

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

Hold-down clamp for separating retainer fastening in GRM

VA 2B



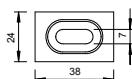
Type	Pack Piece	Weight kg/100 pc.	Item no.
KS GR A2	30	0.830	6062282

/100 pc.

Hold-down clamp for fastening separating retainers in mesh cable trays.

GKT 38 clamping piece

VA VA 2B

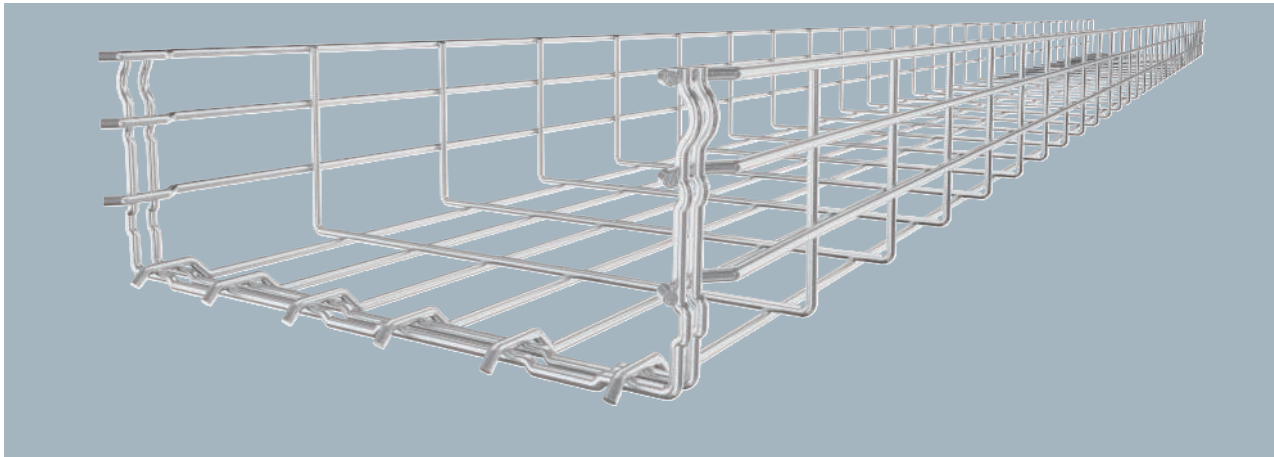


Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 A2	20	2.107	6017045
GKT 38 A4	10	2.200	6017092

/pc.

Clamp for fastening barrier strip in mesh cable trays.

Mesh cable tray GR-Magic® 105

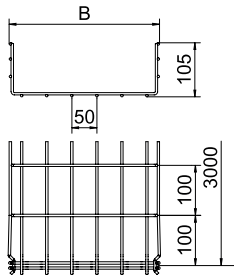


No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm. Mesh cable tray with shaped connector of side height 105 mm. Magnetic shield insulation without cover 15 dB, with cover 25 dB.

Type	Wire		Pack m	Weight kg/100 m	Item no.
	Width mm	Ø mm			
GRM 105 100 A2	100	3.9	3	99.333	6002451
GRM 105 200 A2	200	4.8	3	200.667	6002457
GRM 105 300 A2	300	4.8	3	234.667	6002460
GRM 105 400 A2	400	4.8	3	277.000	6002463
GRM 105 500 A2	500	4.8	3	319.000	6002466
GRM 105 600 A2	600	4.8	3	363.333	6002469

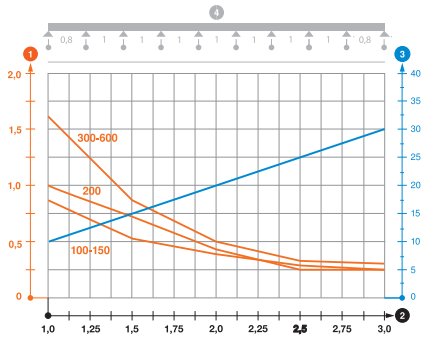
price/m

Dimensions



Type	Length mm	Dim. B mm	Usable cross- section cm²
GRM 105 100 A2	3000	100	82
GRM 105 200 A2	3000	200	175
GRM 105 300 A2	3000	300	268
GRM 105 400 A2	3000	400	363
GRM 105 500 A2	3000	500	459
GRM 105 600 A2	3000	600	554

Load



	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 105 200 A2	0.8	0.55	0.37	0.25
GRM 105 300 A2	1.1	0.75	0.53	0.3
GRM 105 400 A2	1.1	0.75	0.53	0.3
GRM 105 500 A2	1.25	0.85	0.6	0.3
GRM 105 600 A2	1.25	0.85	0.6	0.3

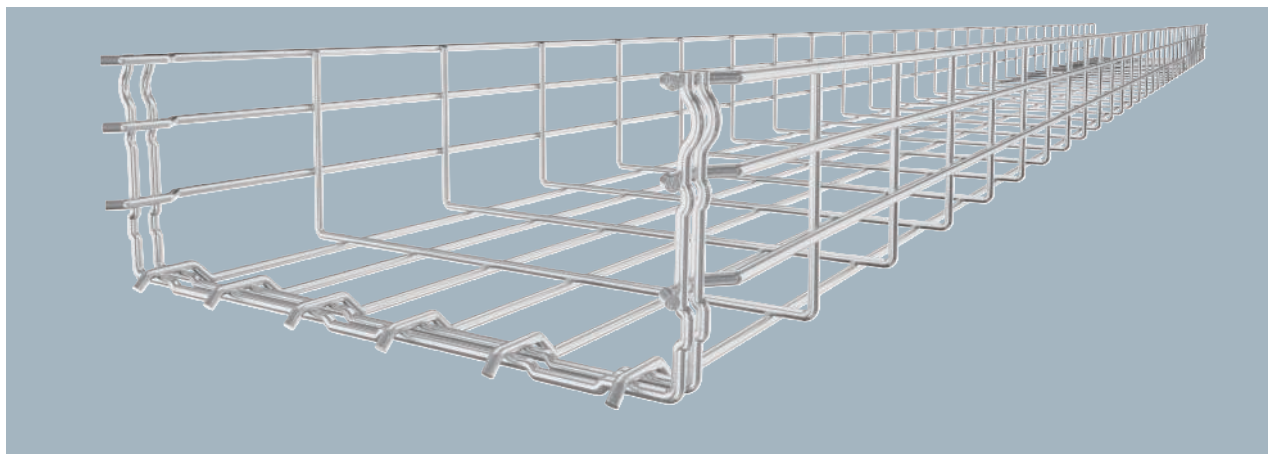
Load diagram, mesh cable tray, type GRM 105

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



Mesh cable tray GR-Magic® 105

VA 2B



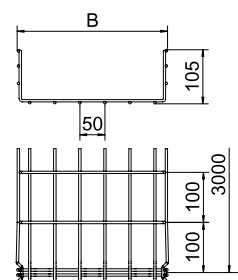
Type	Wire		Pack m	Weight kg/100 m	Item no.
	Width mm	Ø mm			
GRM 105 100 A4	100	3.9	3	99.333	6002475
GRM 105 200 A4	200	4.8	3	192.333	6002477
GRM 105 300 A4	300	4.8	3	235.000	6002479
GRM 105 400 A4	400	4.8	3	277.000	6002481
GRM 105 500 A4	500	4.8	3	319.000	6002483
GRM 105 600 A4	600	4.8	3	363.333	6002485

price/m

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

Type	Length mm	Dim. B mm	Usable cross- section cm²
GRM 105 100 A4	3000	100	82
GRM 105 200 A4	3000	200	175
GRM 105 300 A4	3000	300	268
GRM 105 400 A4	3000	400	363
GRM 105 500 A4	3000	500	459
GRM 105 600 A4	3000	600	554

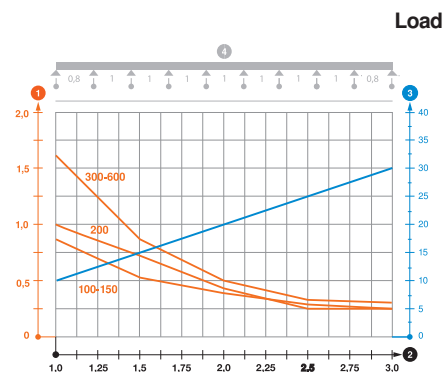
Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
GRM 105 100 A4	0.8	0.55	0.37	0.25
GRM 105 200 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

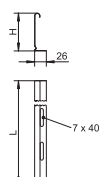
Load diagram, mesh cable tray, type GRM 105

- 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

VA 2B



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

price/m

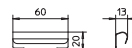
Barrier strip for separation of cables of different voltages or functions.

VA 2B

Separating retainer connector

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

/pc.



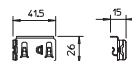
Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.

VA 2B

Hold-down clamp for separating retainer fastening in GRM

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

/100 pc.



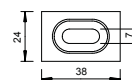
Hold-down clamp for fastening separating retainers in mesh cable trays.

VA VA 2B

GKT 38 clamping piece

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 A2	20	2.107	6017045
GKT 38 A4	10	2.200	6017092

/pc.

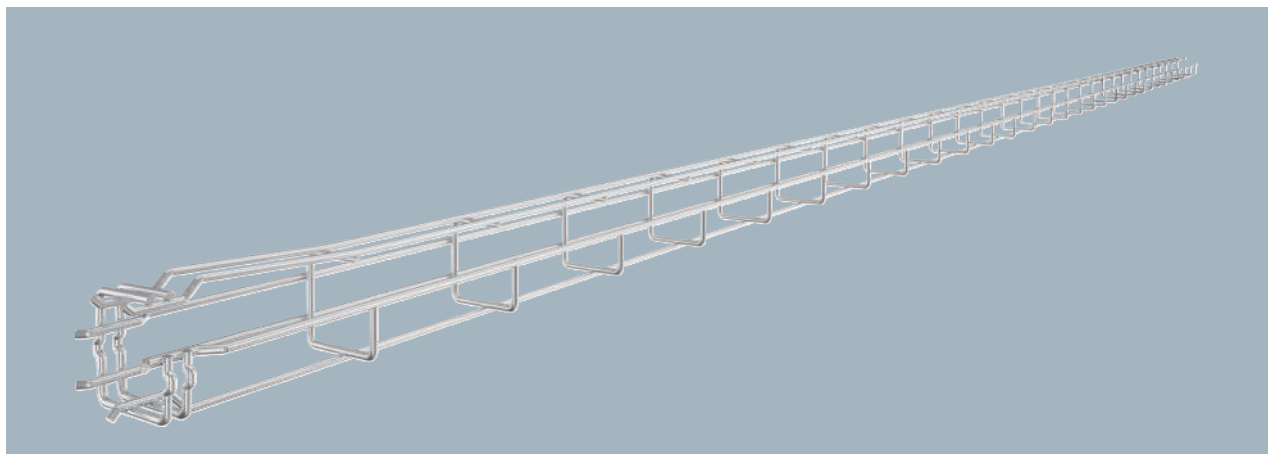


Clamp for fastening barrier strip in mesh cable trays.



G mesh cable tray Magic® 50

VA 2B



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

price/m

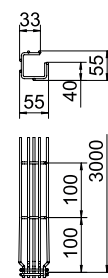
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.

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

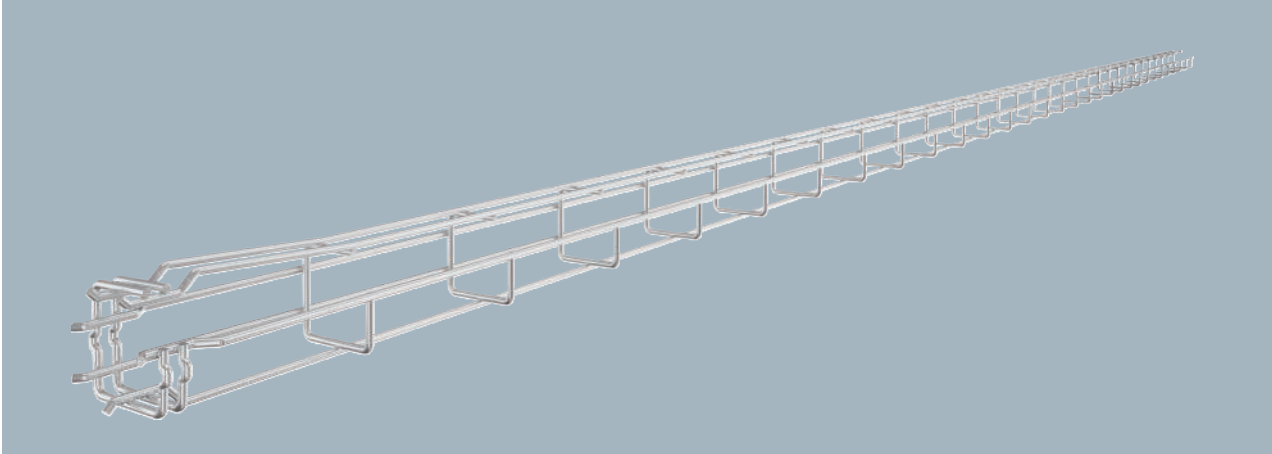
Dimensions



Load

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
Ceiling fastening K12 1818		0.25	0.2	0.10

G mesh cable tray Magic® 50



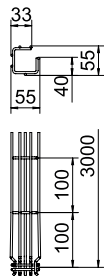
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 50 50 A4	50	3.9	3	66.333	6005565

price/m

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

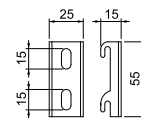
G-GRM 50/50		Support spacing [m]		
		Load [kN/m]		
Fastening variant		1	2	2.5
Wall fastening K12 1818		0.2	0.15	0.1
Ceiling fastening K12 1818		0.25	0.2	0.10

Hook rail for G mesh cable tray

Type	Length mm	Width mm	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
G-GRM-R50 A2	50	25	15	25	2.300	6005635

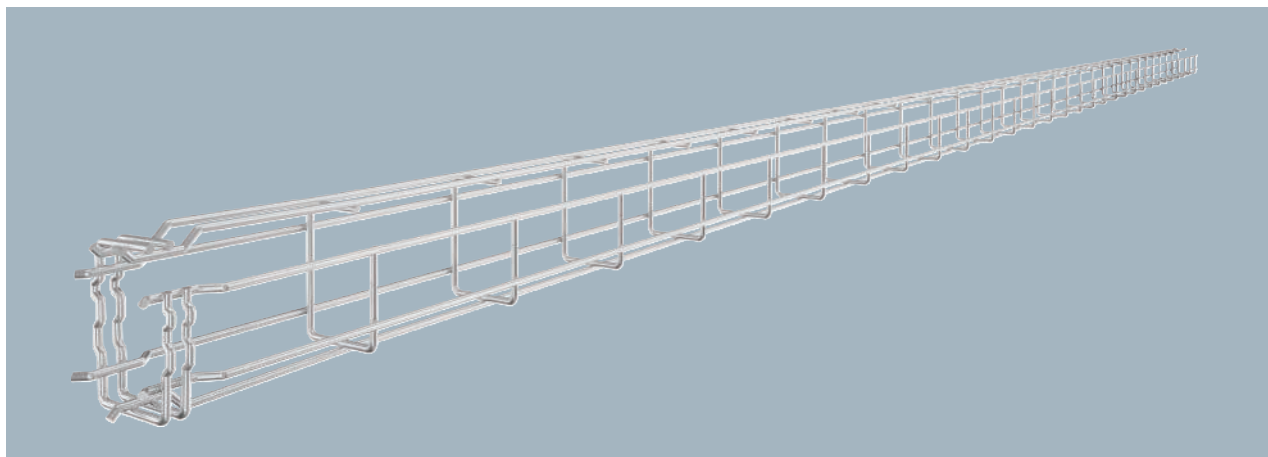
/pc.

Hook rail for wall mounting of G mesh cable trays



G mesh cable tray Magic® 75

VA 2B



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

price/m

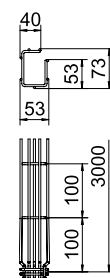
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.

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

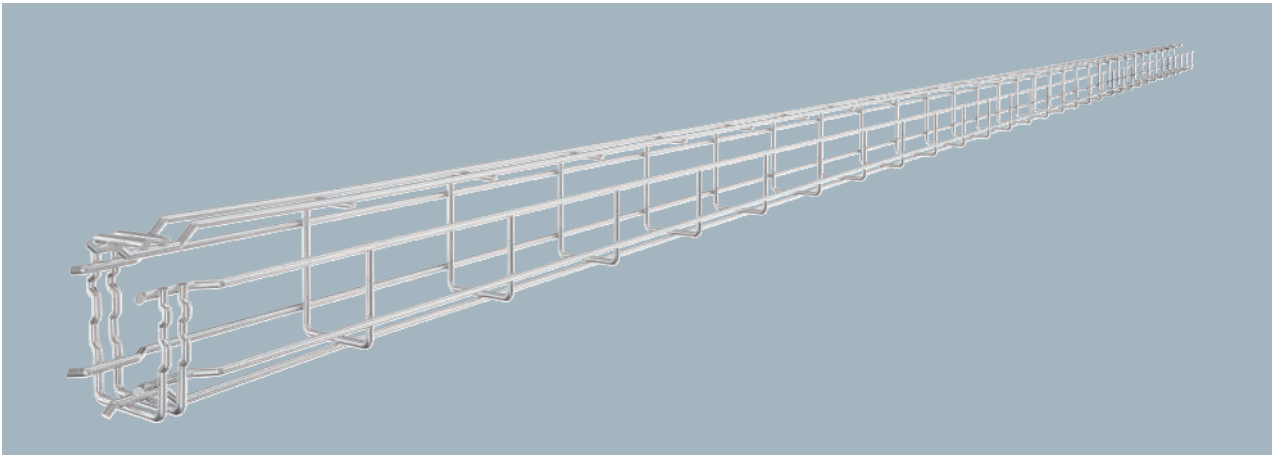
Dimensions



Load

G-GRM 75/50		Support spacing [m]		
		Load [kN/m]		
Fastening variant		1	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® 75



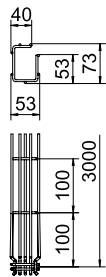
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 75 50 A4	75	3.9	3	79.467	6005568

price/m

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

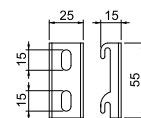
G-GRM 75/50		Support spacing [m]		
		Load [kN/m]		
Fastening variant	1	1.5	2	2.5
Bracket MWAG 12-11	-	-	-	-
Wall fastening K12 1818	0.3	0.2	0.15	0.1
Ceiling fastening K12 1818	0.35	0.2	0.15	0.1

Hook rail for G mesh cable tray

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

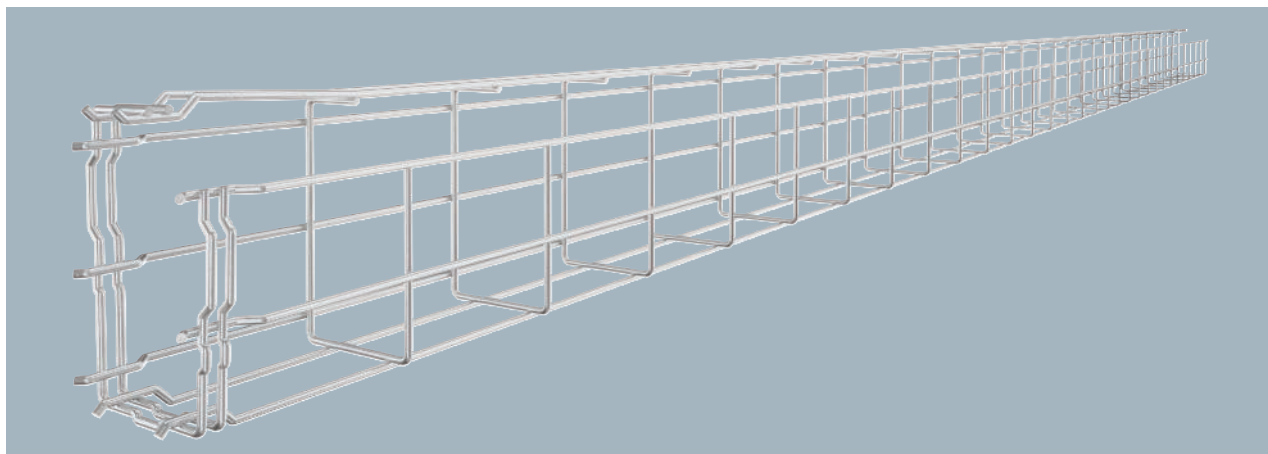
/pc.

Hook rail for wall mounting of G mesh cable trays



G mesh cable tray Magic® 125

VA 2B



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

price/m

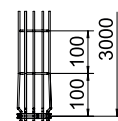
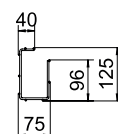
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.

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

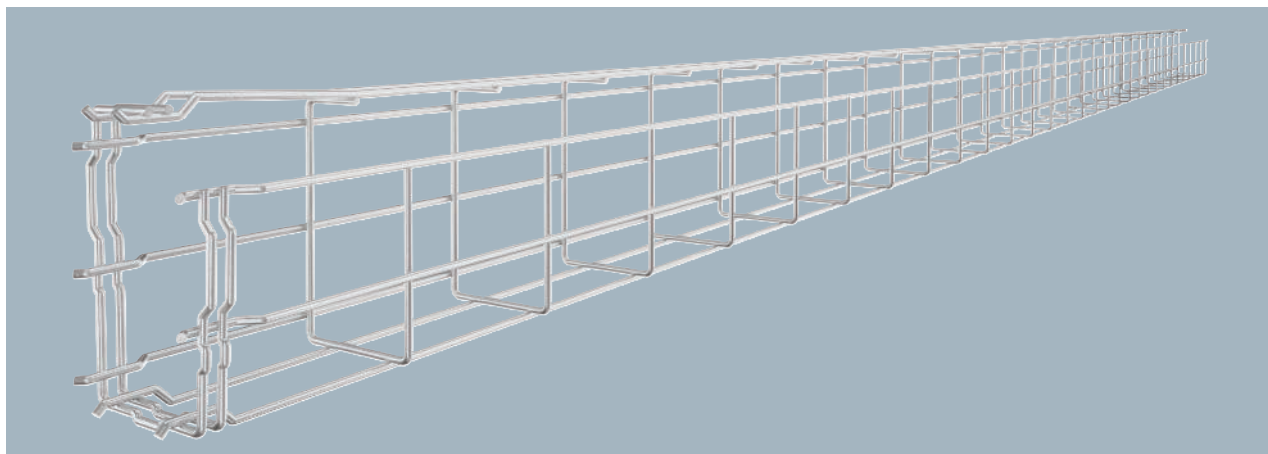
Dimensions



Load

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

G mesh cable tray Magic® 125



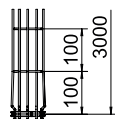
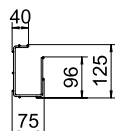
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 125 75 A4	125	3.9	3	108.000	6005571

price/m

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

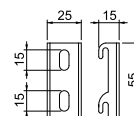
G-GRM 125/75		Support spacing [m]		
		Load [kN/m]		
Fastening variant		1	2	2.5
Bracket MWAG 12-11		0.6	0.35	0.3
Wall fastening K12 1818		0.25	0.25	0.2
Ceiling fastening K12 1818		0.3	0.25	0.2

Hook rail for G mesh cable tray

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

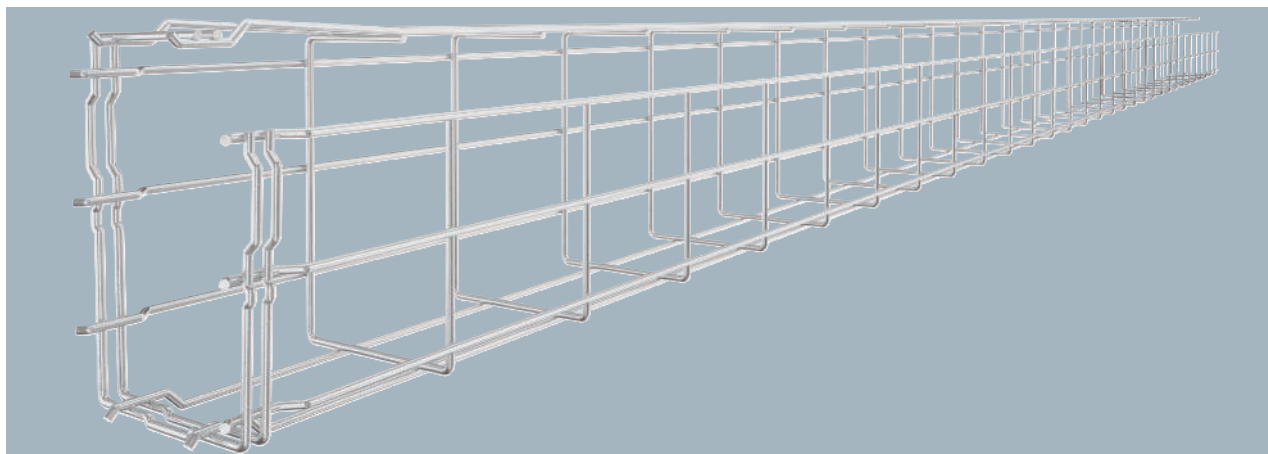
/pc.

Hook rail for wall mounting of G mesh cable trays



G mesh cable tray Magic® 150

VA 2B



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

price/m

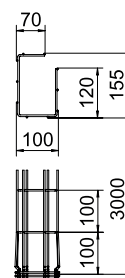
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.

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

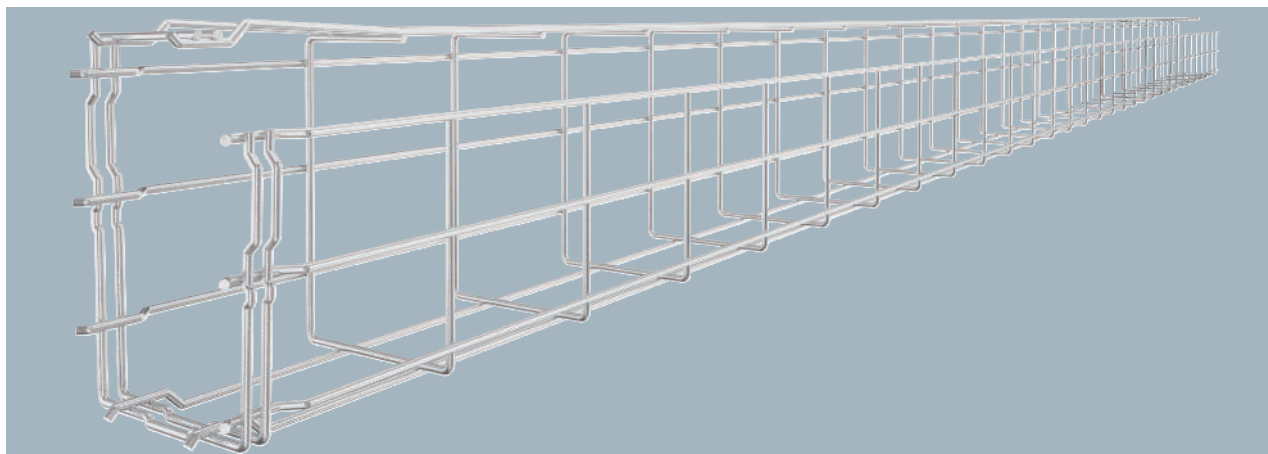


Load

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

VA 2B

G mesh cable tray Magic® 150



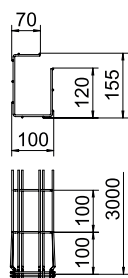
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 150 100 A4	150	3.9	3	127.260	6005574

price/m

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

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

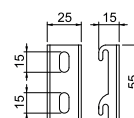
VA 2B

Hook rail for G mesh cable tray

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

/pc.

Hook rail for wall mounting of G mesh cable trays



Accessories for side heights 35, 55, 105 mm

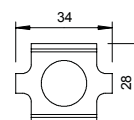
VA VA 2B

Joint connector GSV 34

Type	Pack Piece	Weight kg/100 pc.	Item no.
GSV 34 A2	20	2.572	6016642
GSV 34 A4	20	3.000	6016648

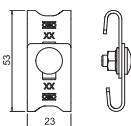
/pc.

Screwed version of joint connector for mesh cable trays.



VA VA 2B

GEV 36 corner connector



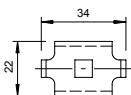
Type	Pack Piece	Weight kg/100 pc.	Item no.
GEV 36 A2	20	3.040	6016731
GEV 36 A4	10	3.040	6016764

/pc.

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

GKS 34 hold-down clamp

VA VA 2B



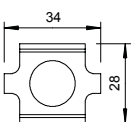
Type	Pack Piece	Weight kg/100 pc.	Item no.
GKS 34 A2	20	2.000	6016839
GKS 34 A4	10	1.976	6016859

/pc.

Hold-down clamp for fixing mesh cable trays to wall or support brackets.

Joint connector GSV 34

VA VA 2B



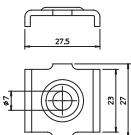
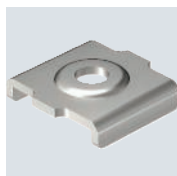
Type	Pack Piece	Weight kg/100 pc.	Item no.
GSV 34 A2	20	2.572	6016642
GSV 34 A4	20	3.000	6016648

/pc.

Screwed version of joint connector for mesh cable trays.

GKB 34 hold-down clamp

VA 2B



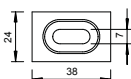
Type	Pack Piece	Weight kg/100 pc.	Item no.
GKB 34 A2	20	1.105	6016676

/pc.

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

GKT 38 clamping piece

VA VA 2B



Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 A2	20	2.107	6017045
GKT 38 A4	10	2.200	6017092

/pc.

Clamp for fastening barrier strip in mesh cable trays.

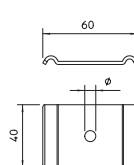
VA 2B

Hold-down clamp

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

/pc.

Clamp for fastening mesh cable trays.



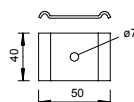
VA 2B

Hold-down clamp

Type	Hole Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
GKS 50 11 OP A4	11	50	4.000	6015315

/pc.

Hold-down clamp for fastening mesh cable trays. Including lens head screw.



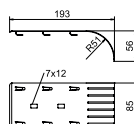
VA 2B

Exit plate

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

/pc.

Drop-out plate for mesh cable trays.



VA 2B

Mounting plate

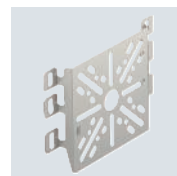
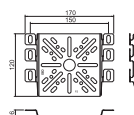
Type	Height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MP UNI A2	120	170	40	11.000	7085133

/pc.

Fastening on the side rail of the mesh cable tray is carried out without bolts by bending the lugs. Fastening on the side rail of cable trays or cable ladders is carried out with two truss-head bolts. Type B9/T junction boxes can be mounted very easily by inserting the bolt plug supplied into the centre hole on the mounting plate.

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

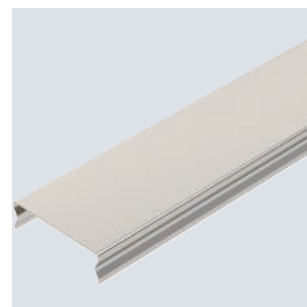
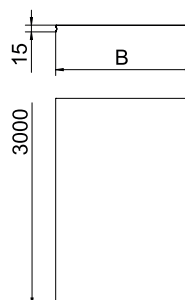
Mounting plate, for fastening on the side rail of cable support systems.



VA 2B

Cover for mesh cable tray, latchable

Type	Dim. B mm	Metal thick- ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DGRR 50 A2	50	0.80	3000	3	47.333	6001860
DGRR 100 A2	97	0.80	3000	3	78.333	6001862
DGRR 150 A2	148	0.80	3000	3	109.667	6001864
DGRR 200 A2	198	0.80	3000	3	141.000	6001866
DGRR 300 A2	298	0.80	3000	3	203.667	6001868
DGRR 400 A2	398	0.80	3000	3	266.333	6001870
DGRR 500 A2	498	0.80	3000	3	329.333	6001872
DGRR 600 A2	598	0.80	3000	3	393.333	6001874



With transverse bead from 400 mm width.

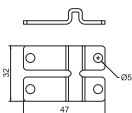
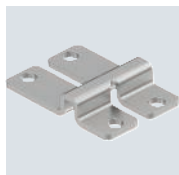
Latchable cover for mesh cable trays. Protects cables from damage, contamination and moisture from above. Suitable for the foodstuffs or chemicals industries.

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



Wall clamp and central hanger

VA 2B



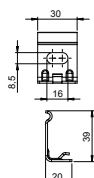
Version		Pack Piece	Weight kg/100 pc.	Item no.
Type				
WB GR A4	For wire thickness 6.0 mm	20	2.423	6017164

/pc.

Fastening component for direct mounting of mesh cable trays to the wall and floor. Can be screwed or riveted on.

Wall holder for GRM 35x50 mesh cable tray

VA 2B



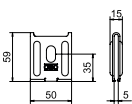
Side height mm		Width mm	Pack Piece	Weight kg/100 pc.	Item no.
Type					
WH GRM35 A4	35	50	10	1.950	6016445

/pc.

Wall mounting for fastening of mesh cable trays GRM 35 50

Wall clamp / central hanger

VA 2B



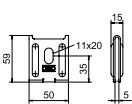
Type		Pack Piece	Weight kg/100 pc.	Item no.
K12 1818 A2		25	8.772	6016421

/pc.

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.

Wall clamp / central hanger

VA 2B

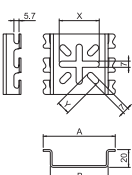


Type		Pack Piece	Weight kg/100 pc.	Item no.
K12 1818 A4		25	8.940	6016425

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

Mounting plate for mesh cable tray

VA 2B



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

/pc.

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.

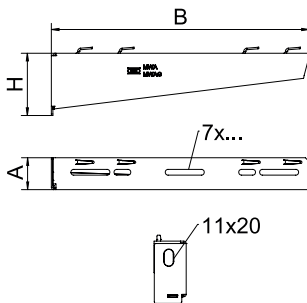


Wall and support bracket MWAG 12



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

Light-duty wall and support bracket with edged design for screwless mesh cable tray fastening.



Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
MWAG 12 11 A2	110	1.2	30	16.000	6424400
MWAG 12 21 A2	210	1.2	30	26.900	6424402
MWAG 12 31 A2	310	1.2	30	51.800	6424404
MWAG 12 41 A2	410	1.2	25	69.200	6424406

Load

	<table> <tr> <th colspan="3">Characteristic load values for MWAG 12 wall and support bracket</th></tr> <tr> <th>Item on test</th><th>Force F (SWL)</th><th>Width B</th></tr> <tr> <td>MWAG 12 11 FS</td><td>1.2 kN</td><td>110 mm</td></tr> <tr> <td>MWAG 12 21 FS</td><td>1.2 kN</td><td>210 mm</td></tr> <tr> <td>MWAG 12 31 FS</td><td>1.2 kN</td><td>310 mm</td></tr> <tr> <td>MWAG 12 41 FS</td><td>1.2 kN</td><td>410 mm</td></tr> </table> Deformation measuring point m According to IEC 61537, Chapter 10.8.1 Max. total load F = Cable weight + cable tray + bracket	Characteristic load values for MWAG 12 wall and support bracket			Item on test	Force F (SWL)	Width B	MWAG 12 11 FS	1.2 kN	110 mm	MWAG 12 21 FS	1.2 kN	210 mm	MWAG 12 31 FS	1.2 kN	310 mm	MWAG 12 41 FS	1.2 kN	410 mm
Characteristic load values for MWAG 12 wall and support bracket																			
Item on test	Force F (SWL)	Width B																	
MWAG 12 11 FS	1.2 kN	110 mm																	
MWAG 12 21 FS	1.2 kN	210 mm																	
MWAG 12 31 FS	1.2 kN	310 mm																	
MWAG 12 41 FS	1.2 kN	410 mm																	

Characteristic anchor load values for MWAG 12 wall and support bracket – wall fastening				
Load [kN]				
Bracket width [mm]	110	210	310	410
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete.

The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).



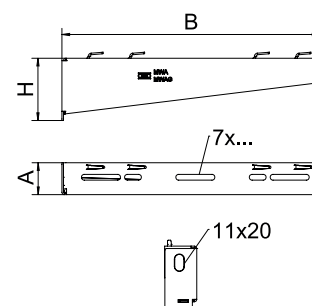
Wall and support bracket MWAG 12



Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
MWAG 12 11 A4	110	1.2	30	16.000	6424410
MWAG 12 21 A4	210	1.2	30	26.900	6424412
MWAG 12 31 A4	310	1.2	30	51.800	6424414
MWAG 12 41 A4	410	1.2	25	69.200	6424416

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

Light-duty wall and support bracket with edged design for screw-less mesh cable tray fastening.



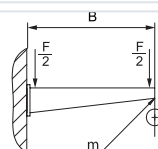
Characteristic load values for MWAG 12 wall and support bracket

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

Deformation measuring point m

According to IEC 61537, Chapter 10.8.1

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



Load

Characteristic anchor load values for MWAG 12 wall and support bracket – wall fastening

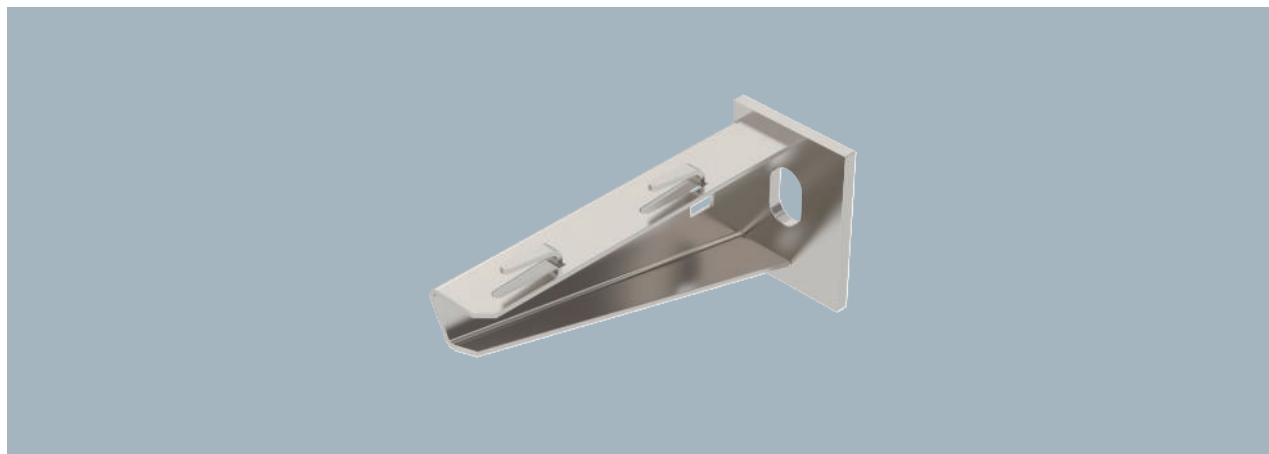
Load [kN]	110	210	310	410
Bracket width [mm]				
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete.

The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).



Wall and support bracket AWG 15



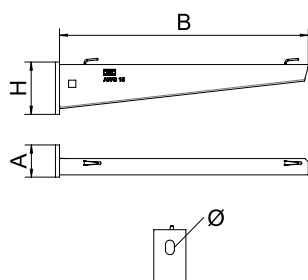
Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

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

Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AWG 15 11 A2	110	1.5	30	13.000	6420625
AWG 15 21 A2	210	1.5	30	25.000	6420628
AWG 15 31 A2	310	1.5	30	33.000	6420631
AWG 15 41 A2	410	1.5	30	53.000	6420634
AWG 15 51 A2	510	1.5	20	65.000	6420637
AWG 15 61 A2	610	1.5	20	80.000	6420640

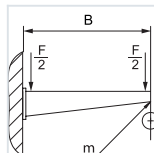
/pc.

Dimensions



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



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

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

Deformation measuring point m

According to IEC 61537, Chapter 10.8.1

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

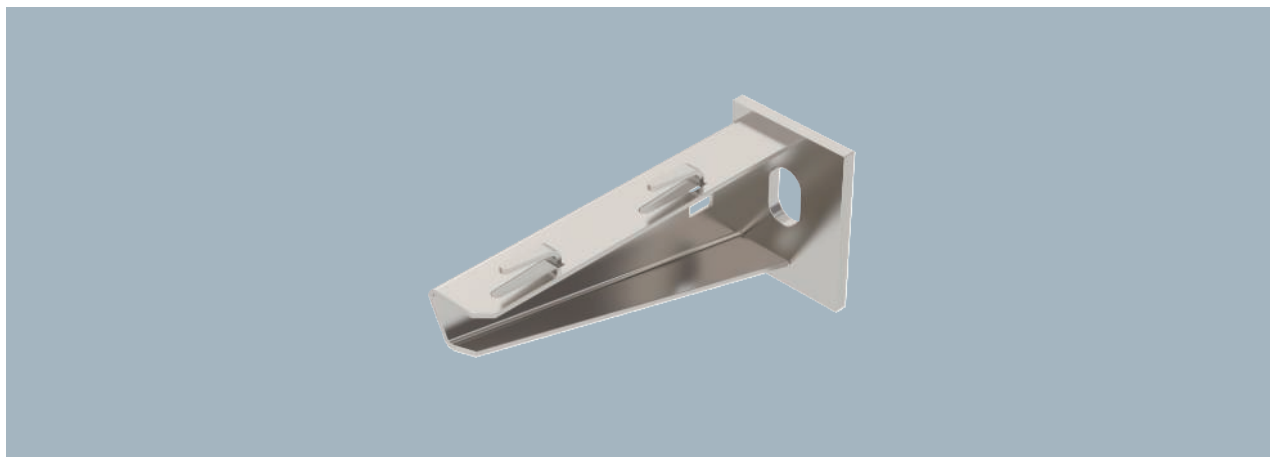
Characteristic anchor load values for AW G 15 wall bracket – wall fastening

Load [kN]				
Bracket width [mm]	110	210	310	410
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete.

The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Wall and support bracket AWG 15



Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AWG 15 11 A4	110	1.5	30	13.000	6420642
AWG 15 21 A4	210	1.5	30	25.000	6420644
AWG 15 31 A4	310	1.5	30	33.000	6420646
AWG 15 41 A4	410	1.5	30	53.000	6420648
AWG 15 51 A4	510	1.5	20	65.000	6420650
AWG 15 61 A4	610	1.5	20	80.000	6420652

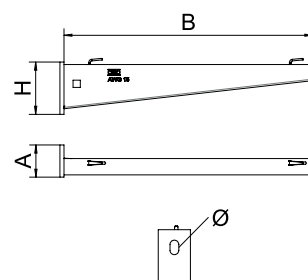
Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

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

/pc.

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

Dimensions



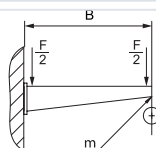
Characteristic anchor load values for wall bracket AWG 15 - wall fastening

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

Deformation measuring point m

According to IEC 61537, Chapter 10.8.1

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



Characteristic anchor load values for AW G 15 wall bracket – wall fastening

Load [kN]	110	210	310	410
Bracket width [mm]				
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete.

The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Load

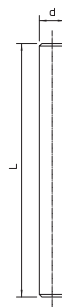
VA VA 2B

Threaded rod

Type	Thread	Dim. d mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
TR M6 1M A2	M6	6	1000	10	18.300	3141327
TR M8 1M A2	M8	8	1000	10	30.000	3141310
TR M10 1M A2	M10	10	1000	10	49.000	3141312
TR M12 1M A2	M12	12	1000	10	70.000	3141314
TR M6 2M A2	M6	6	2000	10	36.600	3141328
TR M8 2M A2	M8	8	2000	10	60.000	3141330
TR M10 2M A2	M10	10	2000	10	98.000	3141339
TR M12 2M A2	M12	12	2000	10	140.000	3141316
TR M6 1M A4	M6	6	1000	50	18.300	3141482
TR M8 1M A4	M8	8	1000	50	30.000	3141492
TR M10 1M A4	M10	10	1000	25	49.000	3141502
TR M12 1M A4	M12	12	1000	20	70.000	3141512
TR M6 2M A4	M6	6	2000	25	36.600	3141484
TR M8 2M A4	M8	8	2000	25	60.000	3141494
TR M10 2M A4	M10	10	2000	20	98.000	3141504
TR M12 2M A4	M12	12	2000	10	140.000	3141514

/100 pc.

Threaded rod to DIN 976.



Mesh cable trays, plug connection

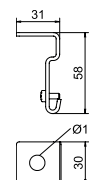
VA 2B

Side holder

Type	Pack Piece	Weight kg/100 pc.	Item no.
SH M10 A4	20	5.500	6015340

/pc.

Side holder for suspension of mesh cable trays.



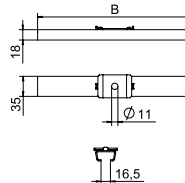
VA 2B

Centre suspension mesh cable tray

Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 170 A4	170	25	20.000	6015418
GMS 270 A4	270	25	32.000	6015419
GMS 370 A4	370	25	43.000	6015420
GMS 470 A4	470	10	55.000	6015421
GMS 570 A4	570	10	67.000	6015422

/pc.

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



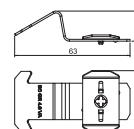
VA 2B

Hold down clip

Type	Dim. b mm	Version	Pack Piece	Weight kg/100 pc.	Item no.
BC GR 4.8 A2	17	For wire thicknesses 3.9 and 4.8 mm	20	1.760	6016665

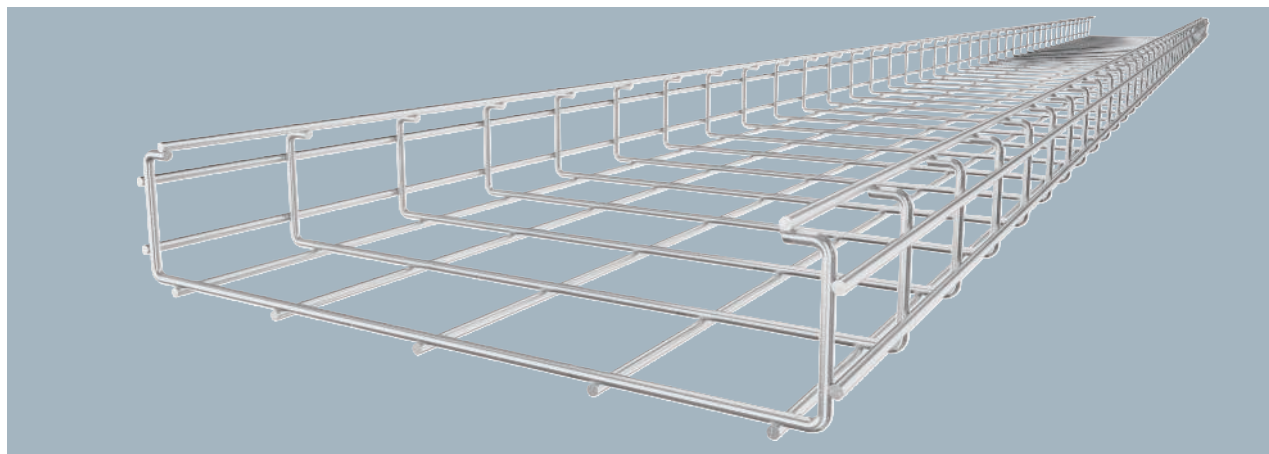
/pc.

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



C mesh cable tray CGR 50

VA 2B



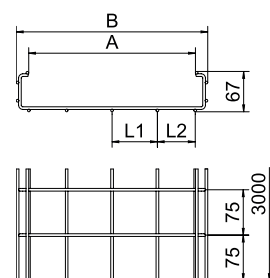
Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
CGR 50 50 A2	50	4.5	3	124.667	6016200
CGR 50 100 A2	50	4.5	3	133.000	6016235
CGR 50 200 A2	50	4.5	3	173.200	6016251
CGR 50 300 A2	50	4.5	3	195.333	6016253
CGR 50 400 A2	50	4.5	3	222.334	6016255

price/m

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 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

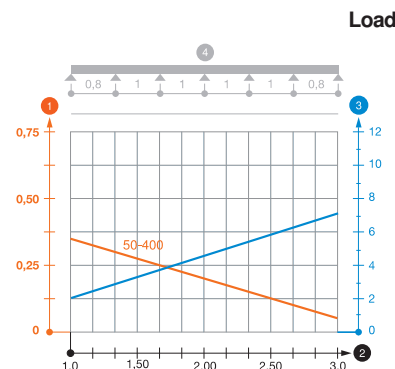
Dimensions



	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

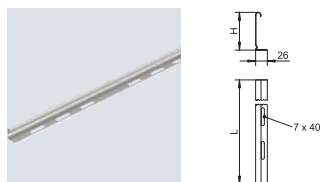
Load diagram, C mesh cable tray CGR 50 VA

- 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



Barrier strip 30

VA 2B



Type	Dim. H mm	Metal thickness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 30 A2	30	0.75	3000	3	37.997	6062052

price/m

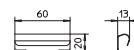
Barrier strip for separation of cables of different voltages or functions.

VA 2B

Separating retainer connector

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

/pc.



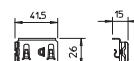
Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.

VA 2B

Hold-down clamp for separating retainer fastening in GRM

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

/100 pc.



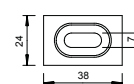
Hold-down clamp for fastening separating retainers in mesh cable trays.

VA VA 2B

GKT 38 clamping piece

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 A2	20	2.107	6017045
GKT 38 A4	10	2.200	6017092

/pc.



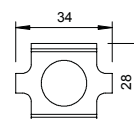
Clamp for fastening barrier strip in mesh cable trays.

VA VA 2B

Joint connector GSV 34

Type	Pack Piece	Weight kg/100 pc.	Item no.
GSV 34 A2	20	2.572	6016642
GSV 34 A4	20	3.000	6016648

/pc.



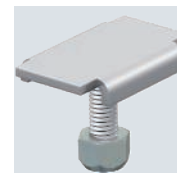
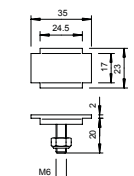
Screwed version of joint connector for mesh cable trays.

VA 2B

KS 23/35 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
KS 23 35 A2	20	2.015	6016529

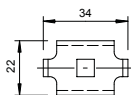
/pc.



Clamp for mounting bracket, type MW 45 and MW 90.

GKS 34 hold-down clamp

VA VA 2B



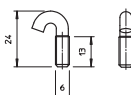
Type	Pack Piece	Weight kg/100 pc.	Item no.
GKS 34 A2	20	2.000	6016839
GKS 34 A4	10	1.976	6016859

/pc.

Hold-down clamp for fixing mesh cable trays to wall or support brackets.

HS M6 hook screw

A2 2B



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

/100 pc.

Hook screw for fastening cable tracks on the bracket.

Combination nut A2

VA 2B

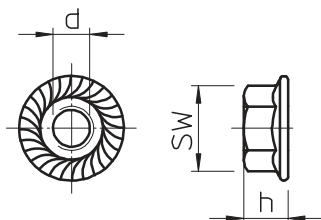


Type	Dim. d mm	Dim. h mm	SW mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
KM M6 A2	6	6	10	A2-70	100	0.315	6408966

/100 pc.

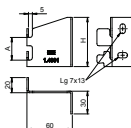
Nut with pressed washer.

Dimensions



WBH CGR50 wall holder, horizontal

VA 2B



Type	Dim. A mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
WBH CGR50 A2	30	65	25	8.600	6016411

/pc.

Wall holder for horizontal wall fastening of the C mesh cable tray. Screwless mesh cable tray fastening on the wall holder.

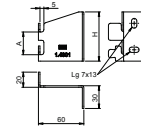
VA 2B

WBV CGR50 wall holder, vertical

Type	Dim. A mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
WBV CGR50 A2	75	110	25	16.000	6016415

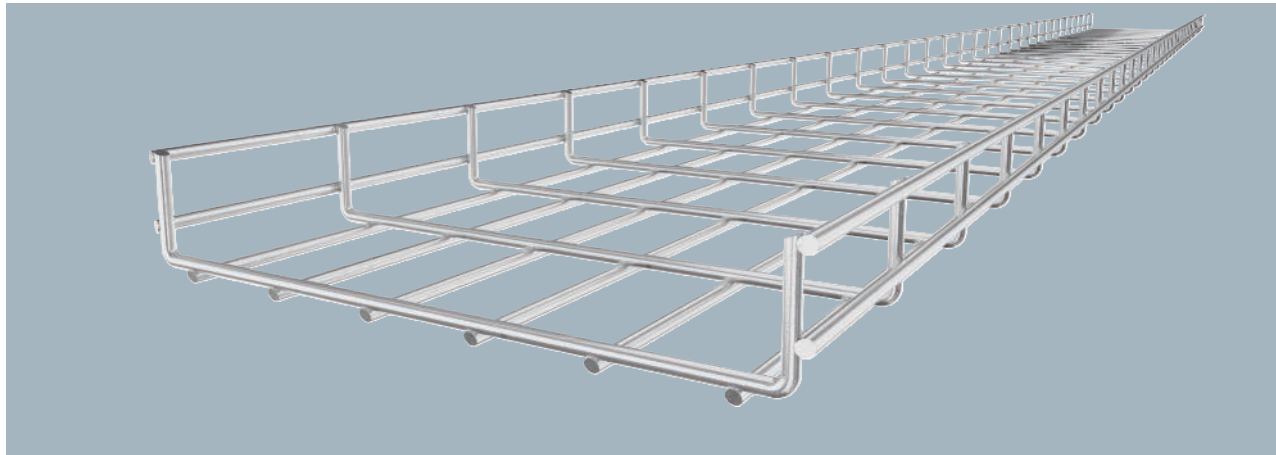
/pc.

Wall holder for vertical wall fastening of the C mesh cable tray. Screwless mesh cable tray fastening on the wall holder.



Heavy-duty cable tray SGR 55

VA 2B



Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
SGR 55 100 A2	100	6	3	166.000	6000909
SGR 55 150 A2	150	6	3	198.000	6000913
SGR 55 200 A2	200	6	3	231.333	6000917
SGR 55 300 A2	300	6	3	296.333	6000925
SGR 55 400 A2	400	6	3	361.333	6000933
SGR 55 500 A2	500	6	3	426.333	6000941
SGR 55 600 A2	600	6	3	491.667	6000958

price/m

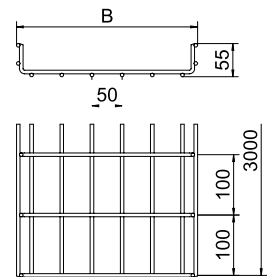
The grid width is 50 x 100 mm.

Mesh cable tray made of spot-welded steel wire of side height 55 mm.

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

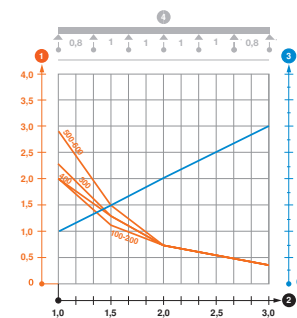
Type	Length mm	Dim. B mm	Usable cross- section cm ²
SGR 55 100 A2	3000	100	40
SGR 55 150 A2	3000	150	63
SGR 55 200 A2	3000	200	87
SGR 55 300 A2	3000	300	129
SGR 55 400 A2	3000	400	175
SGR 55 500 A2	3000	500	220
SGR 55 600 A2	3000	600	265

Dimensions



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

Load



Load diagram, mesh cable tray, type SGR 55

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

Heavy-duty cable tray SGR 105



The grid width is 50 x 100 mm.

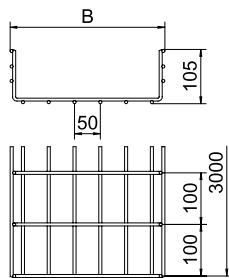
Mesh cable tray made of spot-welded steel wire of side height 105 mm.

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

Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
SGR 105 150 A2	150	6	3	264.000	6003623
SGR 105 200 A2	200	6	3	296.333	6003625
SGR 105 300 A2	300	6	3	361.333	6003627
SGR 105 400 A2	400	6	3	426.333	6003629
SGR 105 500 A2	500	6	3	491.667	6003631
SGR 105 600 A2	600	6	3	557.333	6003633

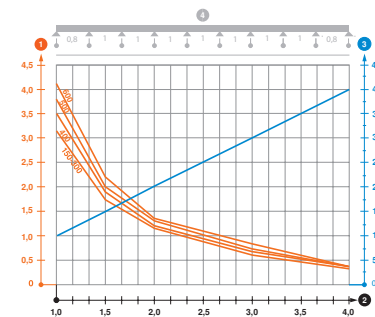
price/m

Dimensions



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

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 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

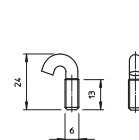
Accessories, mesh cable tray

HS M6 hook screw

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

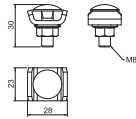
/100 pc.

Hook screw for fastening cable tracks on the bracket.



GUV 6 joint connector

VA 2B


Type
GU6 6 A2

Pack Piece	Weight kg/100 pc.	Item no.
20	4.154	6016574

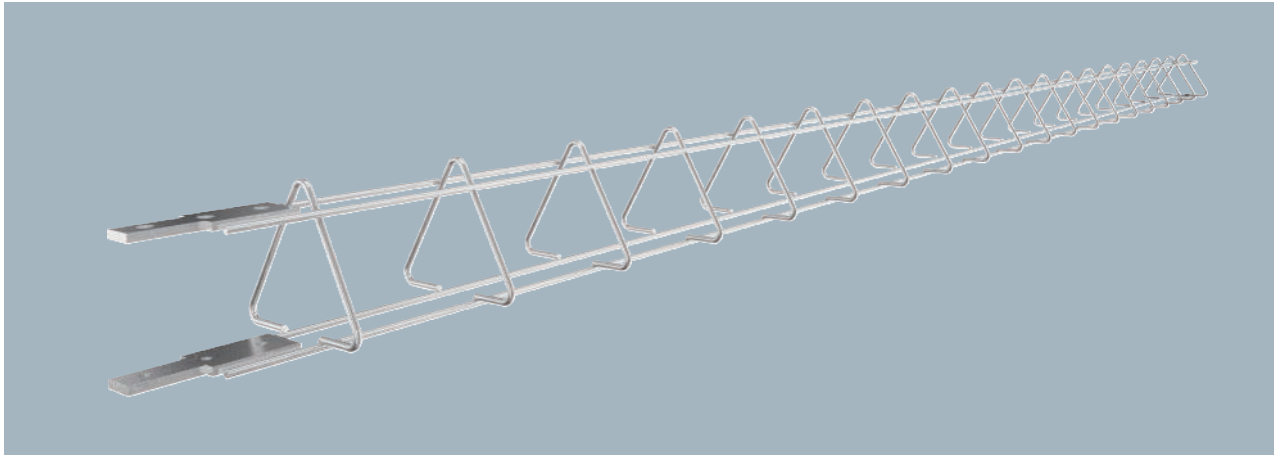
/pc.

Joint connector for mesh cable tray, type SGR.

Luminaire support mesh tray LTG

VA 2B

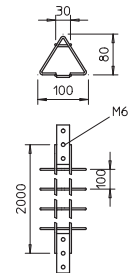
Luminaire support mesh tray

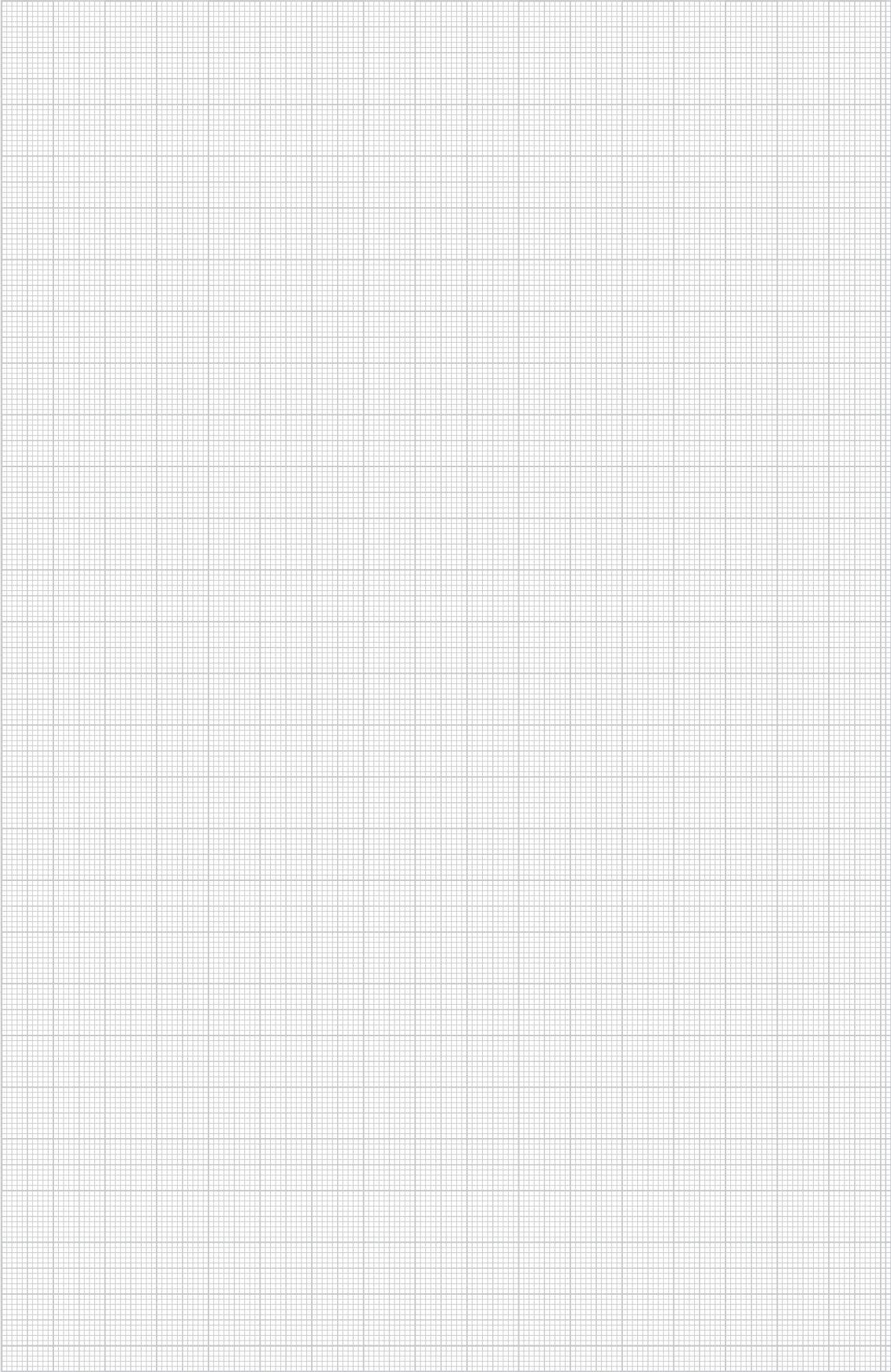


Type	Width mm	Length mm	Pack m	Weight kg/100 m	Item no.
LTG 100 A2	100	2080	2	69.500	6003830

price/m

Luminaire support grid for luminaire suspension. The constructive design of this system avoids larger build-ups of dirt.

Dimensions




Cable ladders

Cable ladders, riveted

Cable ladders



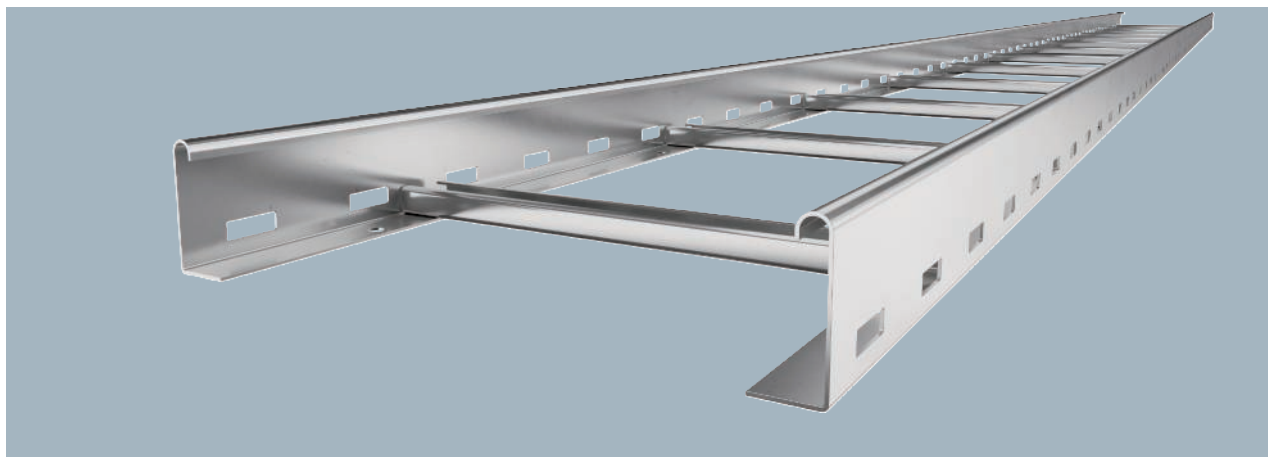
Cable ladders, riveted

150



Cable ladder LG 60, 6 m VS

VA 2B



Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 620 VS6 A2	200	6	267.067	6208700
LG 630 VS6 A2	300	6	288.733	6208703
LG 640 VS6 A2	400	6	314.400	6208706
LG 650 VS6 A2	500	6	332.400	6208709
LG 660 VS6 A2	600	6	354.066	6208712

price/m

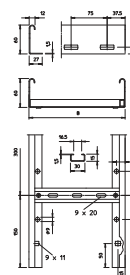
The cable ladder is shipped folded up.

You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

Type	Length mm	Dim. B mm	Rail thick- ness mm	Usable cross- section cm ²	Rung spacing mm
LG 620 VS6 A2	6000	200	1.5	98	300
LG 630 VS6 A2	6000	300	1.5	148	300
LG 640 VS6 A2	6000	400	1.5	198	300
LG 650 VS6 A2	6000	500	1.5	248	300
LG 660 VS6 A2	6000	600	1.5	298	300

Dimensions

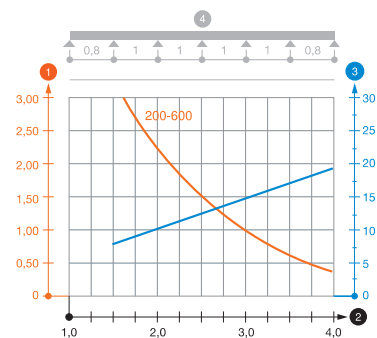


	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	3.5 m kN/m	4.0 m kN/m
LG 620 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45
LG 630 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45
LG 640 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45
LG 650 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45
LG 660 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45

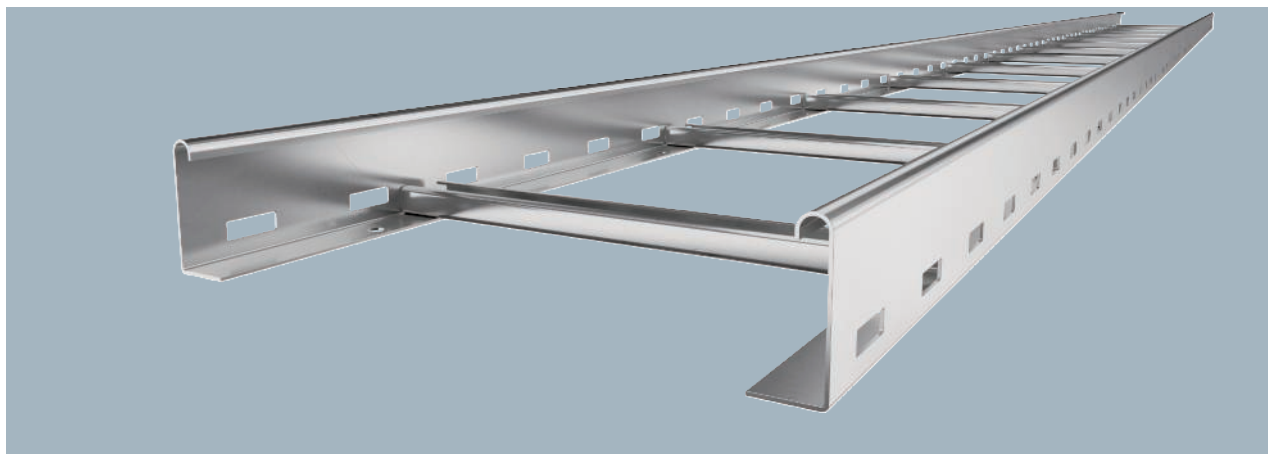
Load diagram, LG 60 VS

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

Load



Cable ladder LG 60, 6 m VS



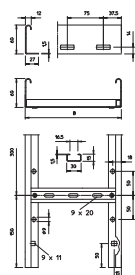
The cable ladder is shipped folded up.
You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 620 VS6 A4	200	6	267.733	6101200
LG 630 VS6 A4	300	6	288.733	6101208
LG 640 VS6 A4	400	6	314.400	6101216
LG 650 VS6 A4	500	6	341.666	6101223
LG 660 VS6 A4	600	6	354.000	6101232

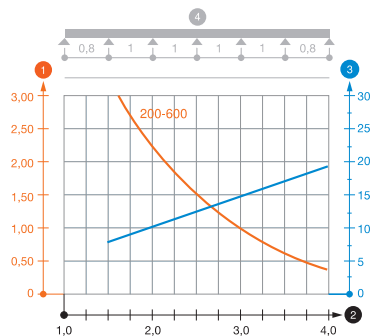
price/m

Dimensions



Type	Length mm	Dim. B mm	Usable cross- section cm ²	Rung spacing mm
LG 620 VS6 A4	6000	200	98	300
LG 630 VS6 A4	6000	300	148	300
LG 640 VS6 A4	6000	400	198	300
LG 650 VS6 A4	6000	500	248	300
LG 660 VS6 A4	6000	600	298	300

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	3.5 m kN/m	4.0 m kN/m
LG 620 VS6 A4	3.1	2.25	1.5	1.1	0.75	0.45
LG 630 VS6 A4	3.1	2.25	1.5	1.1	0.75	0.45
LG 640 VS6 A4	3.1	2.25	1.5	1.1	0.75	0.45
LG 650 VS6 A4	3.1	2.25	1.5	1.1	0.75	0.45
LG 660 VS6 A4	3.1	2.25	1.5	1.1	0.75	0.45

Load diagram, LG 60 VS

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Cable ladder LCIS 60, 6 m C30

VA 2B



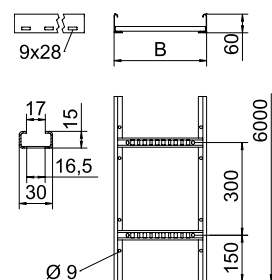
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LCIS 620 6 A2	200	6	267.000	6207252
LCIS 630 6 A2	300	6	288.840	6207254
LCIS 640 6 A2	400	6	310.500	6207256
LCIS 650 6 A2	500	6	332.340	6207258
LCIS 660 6 A2	600	6	354.000	6207260

price/m

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

Type	Length mm	Dim. B mm	Rail thick- ness mm	Usable cross- section cm ²	Rung spacing mm
LCIS 620 6 A2	6000	200	1.5	80	300
LCIS 630 6 A2	6000	300	1.5	120	300
LCIS 640 6 A2	6000	400	1.5	160	300
LCIS 650 6 A2	6000	500	1.5	200	300
LCIS 660 6 A2	6000	600	1.5	240	300

Dimensions

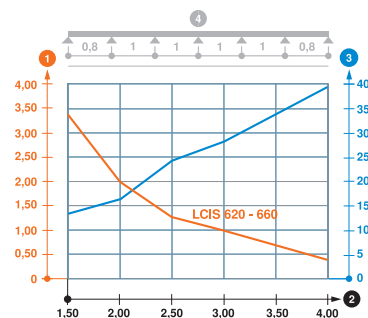


	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LCIS 620 6 A2	3.3	2	1.3	1	0.4
LCIS 630 6 A2	3.3	2	1.3	1	0.4
LCIS 640 6 A2	3.3	2	1.3	1	0.4
LCIS 650 6 A2	3.3	2	1.3	1	0.4
LCIS 660 6 A2	3.3	2	1.3	1	0.4

Load

Load diagram LCIS 60

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



Cable ladder LCIS 60, 6 m C30

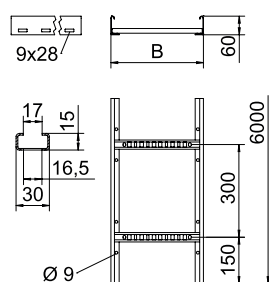


Cable ladder with 60 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamps, type LKS 40. The slot dimension of the frame is 16.5 mm and the appropriate clamp clip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

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

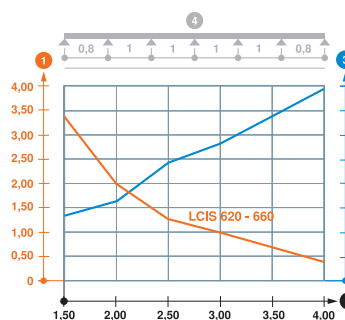
price/m

Dimensions



Type	Length mm	Rail Dim. B mm	thick- ness mm	Usable cross- section cm²	Rung spacing mm
LCIS 620 6 A4	6000	200	1.5	80	300
LCIS 630 6 A4	6000	300	1.5	120	300
LCIS 640 6 A4	6000	400	1.5	160	300
LCIS 650 6 A4	6000	500	1.5	200	300
LCIS 660 6 A4	6000	600	1.5	240	300

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LCIS 620 6 A4	3.3	2	1.3	1	0.4
LCIS 630 6 A4	3.3	2	1.3	1	0.4
LCIS 640 6 A4	3.3	2	1.3	1	0.4
LCIS 650 6 A4	3.3	2	1.3	1	0.4
LCIS 660 6 A4	3.3	2	1.3	1	0.4

Load diagram LCIS 60

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

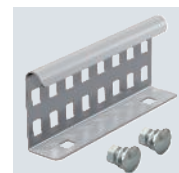
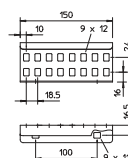
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Straight connector 60

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

/pc.

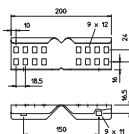
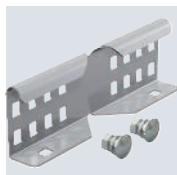


The bolt fastening ensures the continuity of the equipotential bonding.

Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

Angle connector 60

VA VA 2B



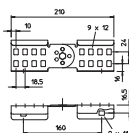
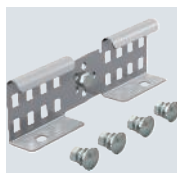
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LWVG 60 A2	60	10	24.000	6208898
LWVG 60 A4	60	10	24.256	6208891

/pc.

Angle connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

Adjustable connector 60

VA VA 2B



Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LGVG 60 A2	60	10	28.500	6208947
LGVG 60 A4	60	10	28.500	6208932

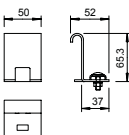
/pc.

The bolt fastening ensures the continuity of the equipotential bonding.

Adjustable connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation. Angle can be adjusted vertically.

Connector 60

VA 2B



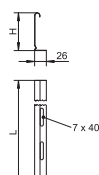
Type	Pack Piece	Weight kg/100 pc.	Item no.
LAS 60 A2	10	13.000	6221386

/pc.

Connector for creation of branches at the same height at a later date.

Separating retainer 45

VA VA 2B



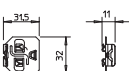
Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 45 A2	45	0.75	3000	3	46.812	6062025
TSG 45 A4	45	0.75	3000	3	46.812	6062028

price/m

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

Hold-down clamp for separating retainer fastening

VA 2B



Type	Pack Piece	Weight kg/100 pc.	Item no.
KS KL A2	30	0.512	6062284

/100 pc.

Hold-down clamp for screwless fastening of the separating retainer in cable ladders.

VA 2B

Separating retainer connector

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

/pc.



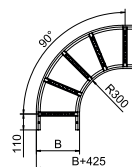
Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.

VA VA 2B

90° bend 60

Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LB 90 620 R3 A2	200	1.5	1	257.800	6225082
LB 90 630 R3 A2	300	1.5	1	322.300	6225084
LB 90 640 R3 A2	400	1.5	1	373.400	6225086
LB 90 650 R3 A2	500	1.5	1	458.600	6225088
LB 90 660 R3 A2	600	1.5	1	524.600	6225090
LB 90 620 R3 A4	200	1.5	1	261.000	6225102
LB 90 630 R3 A4	300	1.5	1	326.400	6225104
LB 90 640 R3 A4	400	1.5	1	378.200	6225106
LB 90 650 R3 A4	500	1.5	1	458.600	6225108
LB 90 660 R3 A4	600	1.5	1	524.600	6225110

/pc.



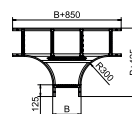
90° bend, horizontal, with welded rung for all cable ladder types of 60 mm side height.

VA VA 2B

T piece 60

Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LT 620 R3 A2	200	1.5	1	474.600	6225250
LT 630 R3 A2	300	1.5	1	537.800	6225252
LT 640 R3 A2	400	1.5	1	627.700	6225254
LT 650 R3 A2	500	1.5	1	697.400	6225256
LT 660 R3 A2	600	1.5	1	767.200	6225258
LT 620 R3 A4	200	1.5	1	480.600	6225270
LT 630 R3 A4	300	1.5	1	544.700	6225272
LT 640 R3 A4	400	1.5	1	635.600	6225274
LT 650 R3 A4	500	1.5	1	706.200	6225276
LT 660 R3 A4	600	1.5	1	776.900	6225278

/pc.

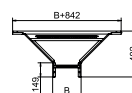


T piece, horizontal, with welded rung for all cable ladder types of 60 mm side height.

VA VA 2B

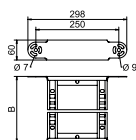
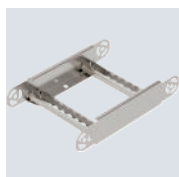
Add-on tee 60

Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LAA 620 R3 A2	200	1.5	1	304.000	6225882
LAA 630 R3 A2	300	1.5	1	326.000	6225884
LAA 640 R3 A2	400	1.5	1	348.000	6225886
LAA 650 R3 A2	500	1.5	1	371.000	6225888
LAA 660 R3 A2	600	1.5	1	393.000	6225890
LAA 620 R3 A4	200	1.5	1	304.000	6225894
LAA 630 R3 A4	300	1.5	1	326.000	6225896
LAA 640 R3 A4	400	1.5	1	348.000	6225898
LAA 650 R3 A4	500	1.5	1	371.000	6225900
LAA 660 R3 A4	600	1.5	1	393.000	6225902



Mounting/branch with welded rung for use in the cable ladder types with a side height of 60 mm.

Adjustable bend element 60



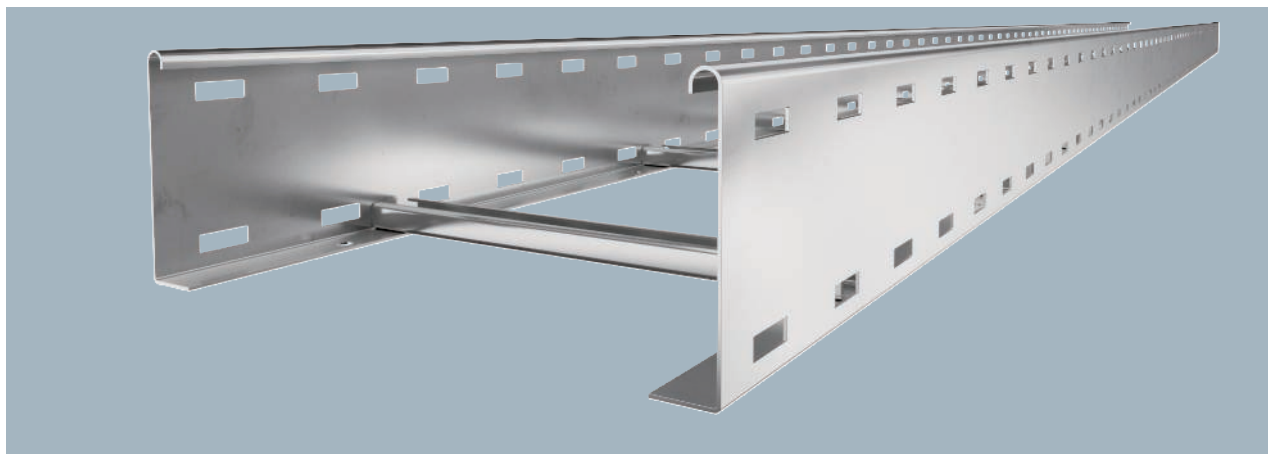
Type	Dim. B mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LGBE 620 A2	200	1.5	1	84.000	6225460
LGBE 630 A2	300	1.5	1	97.000	6225462
LGBE 640 A2	400	1.5	1	109.900	6225464
LGBE 650 A2	500	1.5	1	122.900	6225466
LGBE 660 A2	600	1.5	1	135.900	6225468
LGBE 620 A4	200	1.5	1	84.000	6225480
LGBE 630 A4	300	1.5	1	97.000	6225482
LGBE 640 A4	400	1.5	1	109.900	6225484
LGBE 650 A4	500	1.5	1	122.900	6225486
LGBE 660 A4	600	1.5	1	135.900	6225488

/pc.

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



Cable ladder LG 110, 6 m VS



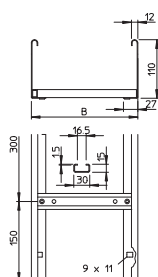
The cable ladder is shipped folded up.
You can find the appropriate U clamp of type 2056 in the vertical ladder systems chapter.

Cable ladder with perforated side rail of side height 110 mm with riveted C profile rungs, open in an upwards direction.

Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 112 VS6 A2	200	6	377.666	6216492
LG 113 VS6 A2	300	6	400.000	6216493
LG 114 VS6 A2	400	6	419.500	6216495
LG 115 VS6 A2	500	6	444.500	6216497
LG 116 VS6 A2	600	6	468.666	6216499

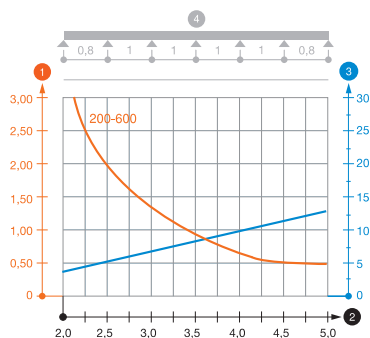
price/m

Dimensions



Type	Length mm	Rail Dim. B mm	Rail thick- ness mm	Usable cross- section cm ²	Rung spacing mm
LG 112 VS6 A2	6000	200	1.5	188	300
LG 113 VS6 A2	6000	300	1.5	283	300
LG 114 VS6 A2	6000	400	1.5	378	300
LG 115 VS6 A2	6000	500	1.5	475	300
LG 116 VS6 A2	6000	600	1.5	568	300

Load



	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m
LG 112 VS6 A2	3.1	1.3	0.6	0.45
LG 113 VS6 A2	3.1	1.3	0.6	0.45
LG 114 VS6 A2	3.1	1.3	0.6	0.45
LG 115 VS6 A2	3.1	1.3	0.6	0.45
LG 116 VS6 A2	3.1	1.3	0.6	0.45

Load diagram, cable ladder, type LG 110 A2

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

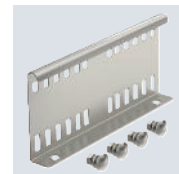
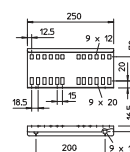
Straight connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LVG 110 A2	110	10	50.900	6216550

/pc.

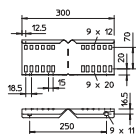
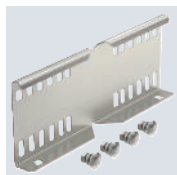
The bolt fastening ensures the continuity of the equipotential bonding.

Straight connector as external connector to connect cable ladders and fittings with a side height of 110 mm.



Angle connector 110

VA 2B



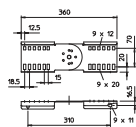
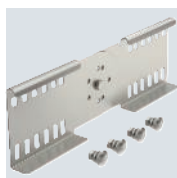
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LWVG 110 A2	110	10	48.800	6216590

/pc.

Angle connector as external connector to join cable ladders and fittings with a side height of 110 mm and continuous rail perforation.

Articulated connector 110

VA 2B



Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LGVG 110 A2	110	10	77.400	6216648

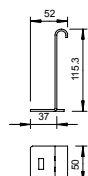
/pc.

The bolt fastening ensures the continuity of the equipotential bonding.

Adjustable connector as internal connector to join cable ladders and fittings with a side height of 110 mm. Angle can be adjusted vertically.

Connector 110

VA



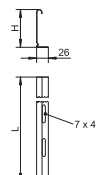
Type	Pack Piece	Weight kg/100 pc.	Item no.
LAS 110 A2	10	18.000	6221432

/pc.

Connector for creation of branches at the same height at a later date.

Barrier strip 85

VA 2B



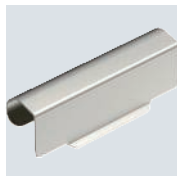
Type	Dim. H mm	Metal thickness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 A2	85	0.75	3000	3	70.351	6062173

price/m

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

Separating retainer connector

VA 2B



Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6062970

/pc.

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



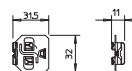
VA 2B

Hold-down clamp for separating retainer fastening

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
KS KL A2	110	30	0.512	6062284

/100 pc.

Hold-down clamp for screwless fastening of the separating retainer in cable ladders.



Accessories for side height 60, 110 mm

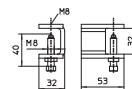
VA 2B

KLL 32 cable ladder hold-down clamp

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
KLL 32 A2	32	10	17.100	6221063

/pc.

Beam clamp for fastening cable ladders to steel girders.

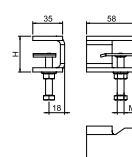


VA 2B

Hold-down clamp with KLL 32 pressure plate

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
KLL 32 MD A2	32	10	24.600	6221065

Hold-down clamp for position fixing of horizontal cable ladders on horizontal steel girders.



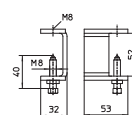
VA 2B

KLL 52 cable ladder hold-down clamp

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
KLL 52 A2	52	10	21.000	6221073

/pc.

Beam clamp for fastening cable ladders to steel girders.

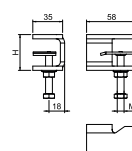


VA 2B

Hold-down clamp with pressure plate KLL 52

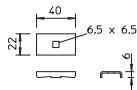
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
KLL 52 MD A2	52	10	26.352	6221075

Hold-down clamp for position fixing of horizontal cable ladders on horizontal steel girders.



LKS 40 hold-down clamp

VA 2B



Type

LKS 40 A2

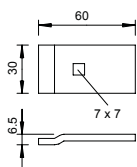
Pack Piece	Weight kg/100 pc.	Item no.
10	2.300	6017134

/pc.

Hold-down clamp for fastening cable ladders.

LKS 60/4 hold-down clamp

VA VA 2B



Type

LKS 60 4 A2

LKS 60 4 A4

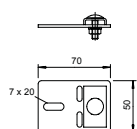
Pack Piece	Weight kg/100 pc.	Item no.
10	8.000	6221130
10	6.363	6221157

/pc.

Hold-down clamp for fastening cable ladders.

LAL 70 support

VA 2B



Type

LAL 70 A2

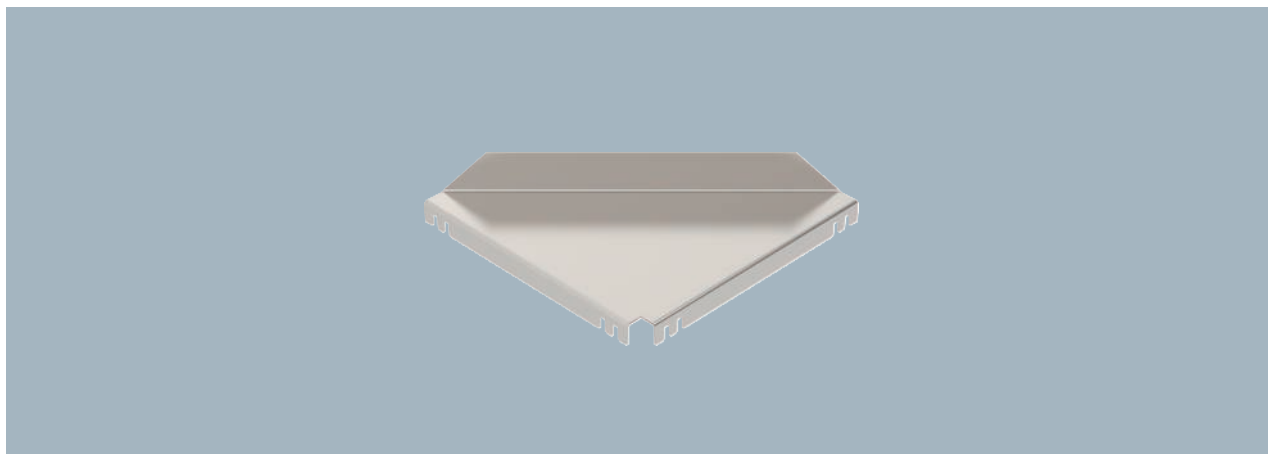
Pack Piece	Weight kg/100 pc.	Item no.
20	10.200	6221017

/pc.

Support for fastening rising or falling cable ladders.

VA 2B

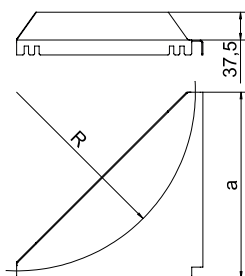
Corner plate



Corner plate to increase the radius and the cable supporting surface.

Type	Radius mm	Dim. a mm	Pack Piece	Weight kg/100 pc.	Item no.
LEB 25 A2	250	250	1	64.300	6221207
LEB 50 A2	500	500	1	207.000	6221250

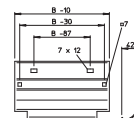
Dimensions



VA 2B

LAB exit plate

Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
LAB 20 A2	200	20	26.000	7164017
LAB 30 A2	300	25	38.000	7164025
LAB 40 A2	400	25	50.000	7164033
LAB 50 A2	500	15	63.000	7164041
LAB 60 A2	600	15	75.000	7164068



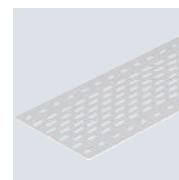
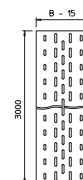
/pc.

Exit plate for installation on the rung for vertically exiting cables.

VA 2B

ELB-L insertion plate

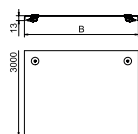
Type	Dim. B mm	Metal thick- ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
ELB-L20 A2	200	1.00	3000	3	94.400	6103614
ELB-L30 A2	300	1.00	3000	3	146.567	6103618
ELB-L40 A2	400	1.00	3000	3	198.700	6103622
ELB-L50 A2	500	1.00	3000	3	250.867	6103626
ELB-L60 A2	600	1.00	3000	3	303.033	6103630



price/m

Insert plate for use in cable ladders.

Cover with turn buckle



Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL 100 A2	100	1.00	3000	3	105.070	6052878
DRL 200 A2	200	1.00	3000	3	183.500	6052894
DRL 300 A2	300	1.00	3000	3	262.240	6052908
DRL 400 A2	400	1.00	3000	3	340.400	6052932
DRL 500 A2	500	1.25	3000	3	625.340	6052959
DRL 600 A2	600	1.25	3000	3	743.240	6052975
DRL 100 A4	100	1.00	3000	3	105.070	6052980
DRL 200 A4	200	1.00	3000	3	183.570	6052981
DRL 300 A4	300	1.00	3000	3	262.240	6052983
DRL 400 A4	400	1.00	3000	3	341.240	6052984
DRL 500 A4	500	1.25	3000	3	624.900	6052985
DRL 600 A4	600	1.25	3000	3	743.240	6052986

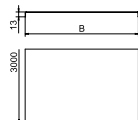
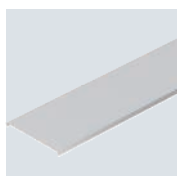
price/m

Transverse bead from 500 mm width.

Cover for cable trays and cable ladders with three pairs of turn buckles.

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

Unperforated cover



Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRLU 100 A2	100	1.00	3000	3	99.000	6052824
DRLU 200 A2	200	1.00	3000	3	177.500	6052831
DRLU 300 A2	300	1.00	3000	3	256.000	6052834
DRLU 400 A2	400	1.00	3000	3	334.500	6052837
DRLU 500 A2	500	1.50	3000	3	619.167	6052841
DRLU 600 A2	600	1.50	3000	3	736.900	6052844
DRLU 100 A4	100	1.00	3000	3	99.000	6052991
DRLU 200 A4	200	1.00	3000	3	177.500	6052993
DRLU 300 A4	300	1.00	3000	3	256.000	6052994
DRLU 400 A4	400	1.00	3000	3	334.500	6052995
DRLU 500 A4	500	1.25	3000	3	619.170	6052996
DRLU 600 A4	600	1.25	3000	3	736.900	6052998

price/m

Transverse bead from 500 mm width.

Cover for cable trays and mesh cable trays.

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

Cover clamp



Type	Pack Piece	Weight kg/100 pc.	Item no.
DK DRLU A2	30	0.842	6052810

Cover clamp for secure fastening of covers on cable trays and cable ladders.



VA 2B

Turn buckle for screwing

Type	Pack Piece	Weight kg/100 pc.	Item no.
DRL H S A2	20	3.260	6065016

Turn buckle for additional mounting or mounting at a later date.

Depending on the cover version, dimension B varies as follows:

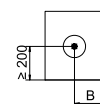
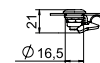
DRL / DRLU = 27 mm

DBKR = 27 mm

WDRL = 38 mm

WKLD = 58 mm

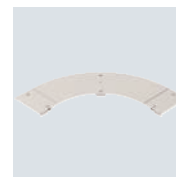
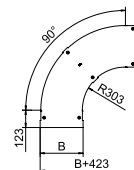
Single-sided turn buckle. Use for cover widths of 100–600 mm.



VA VA 2B

Cover for 90° bend LBD R3

Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LBD 90 200 R3 A2	200	1.00	1	158.000	6226050
LBD 90 300 R3 A2	300	1.00	1	246.000	6226052
LBD 90 400 R3 A2	400	1.00	1	346.000	6226054
LBD 90 500 R3 A2	500	1.25	1	568.000	6226056
LBD 90 600 R3 A2	600	1.25	1	725.000	6226058
LBD 90 200 R3 A4	200	1.00	1	159.000	6226070
LBD 90 300 R3 A4	300	1.00	1	248.000	6226072
LBD 90 400 R3 A4	400	1.00	1	350.000	6226074
LBD 90 500 R3 A4	500	1.25	1	575.000	6226076
LBD 90 600 R3 A4	600	1.25	1	734.000	6226078



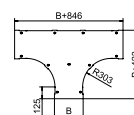
/pc.

Cover with turn buckles for covering 90° cable ladder bends with welded rungs.

VA VA 2B

Cover for LTD R3 T piece

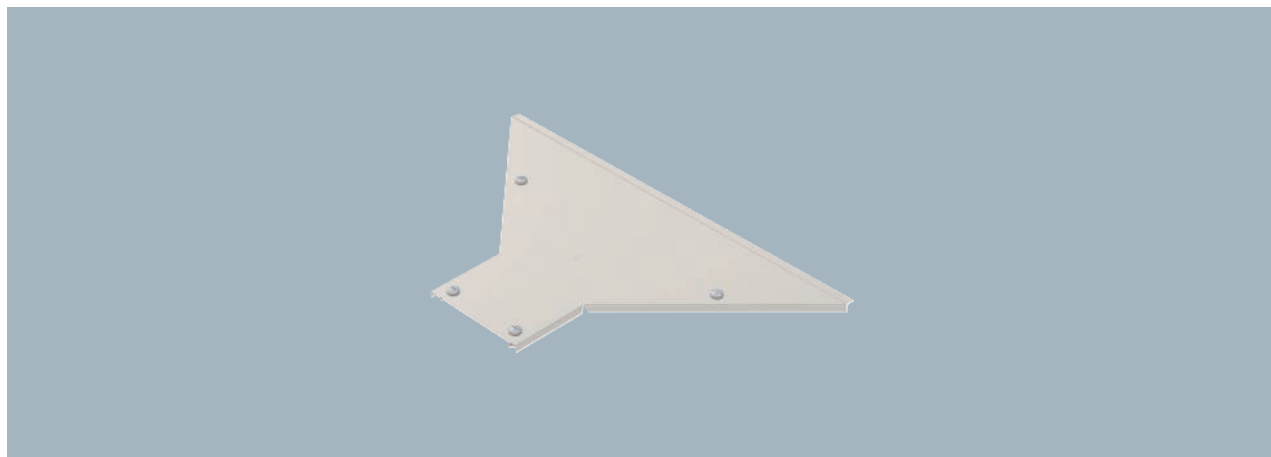
Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LTD 200 R3 A2	200	1.00	1	287.000	6226160
LTD 300 R3 A2	300	1.00	1	429.000	6226162
LTD 400 R3 A2	400	1.00	1	585.000	6226164
LTD 500 R3 A2	500	1.25	1	757.000	6226166
LTD 600 R3 A2	600	1.25	1	943.000	6226168
LTD 200 R3 A4	200	1.00	1	291.000	6226180
LTD 300 R3 A4	300	1.00	1	434.000	6226182
LTD 400 R3 A4	400	1.00	1	592.000	6226184
LTD 500 R3 A4	500	1.25	1	766.000	6226186
LTD 600 R3 A4	600	1.25	1	955.000	6226188



/pc.

Cover with turn buckles for covering T pieces with welded rungs.

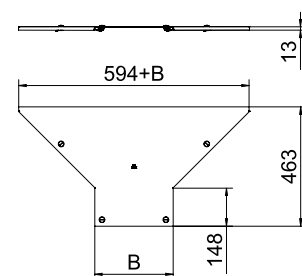
Cover for add-on tee



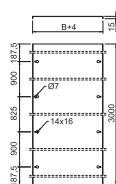
Type	Dim. B mm	Metal thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LAAD 200 R3 A2	200	1.00	1	180.000	6226361
LAAD 300 R3 A2	300	1.00	1	219.000	6226363
LAAD 400 R3 A2	400	1.25	1	316.000	6226365
LAAD 500 R3 A2	500	1.25	1	365.000	6226367
LAAD 600 R3 A2	600	1.25	1	414.000	6226369
LAAD 200 R3 A4	200	1.00	1	180.000	6226381
LAAD 300 R3 A4	300	1.00	1	219.000	6226383
LAAD 400 R3 A4	400	1.25	1	316.000	6226385
LAAD 500 R3 A4	500	1.25	1	365.000	6226387
LAAD 600 R3 A4	600	1.25	1	414.000	6226389

Cover with turn buckles for covering add-on tees with welded rungs.

Dimensions



Cover for stand-off mounting



Type	Width mm	Metal thick- ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL FAM 230 A2	230	1.50	3000	3	299.370	6051192
DRL FAM 330 A2	330	1.50	3000	3	417.140	6051194
DRL FAM 430 A2	430	1.50	3000	3	534.870	6051196
DRL FAM 530 A2	530	1.50	3000	3	652.640	6051198
DRL FAM 630 A2	630	1.50	3000	3	770.370	6051200
DRL FAM 230 A4	230	1.50	3000	3	299.370	6051210
DRL FAM 330 A4	330	1.50	3000	3	417.140	6051212
DRL FAM 430 A4	430	1.50	3000	3	534.870	6051214
DRL FAM 530 A4	530	1.50	3000	3	652.640	6051216
DRL FAM 630 A4	630	1.50	3000	3	770.370	6051218

price/m

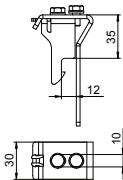
Cover for stand-off mounting. Not suitable for the vertical ladders SLM and SLS.

VA 2B

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
AH 35 A2	35	8	14.100	6065475

Spacers for stand-off cover mounting on cable trays and cable ladders. Space height 35 mm, stainless steel 1.4301.

Spacer for cover



Wide span

Cable trays, wide span

Wide span



Cable trays, wide span

168



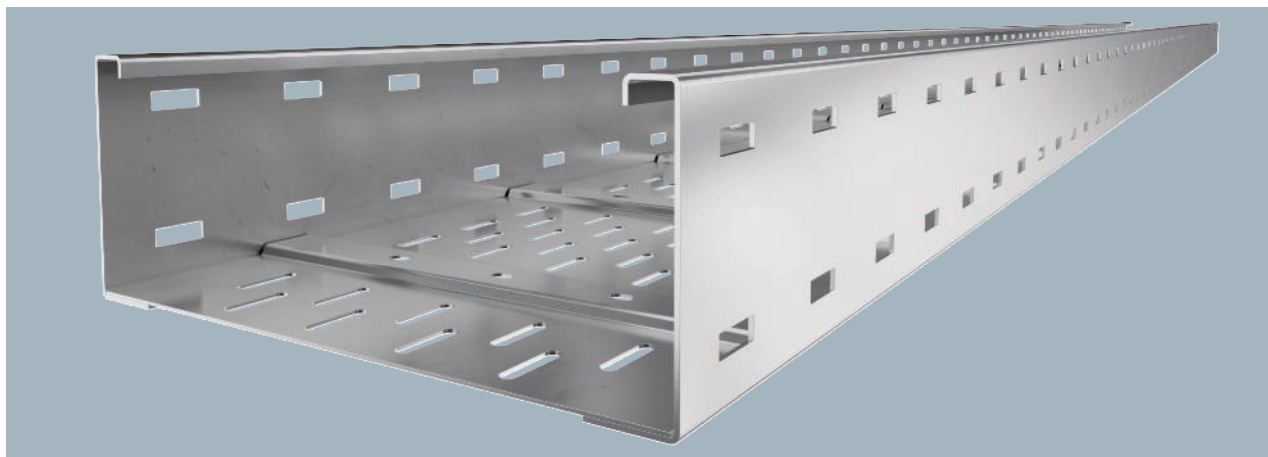
Wide span cable ladders

174

Cable trays, wide span



Wide span cable tray WKSG 110

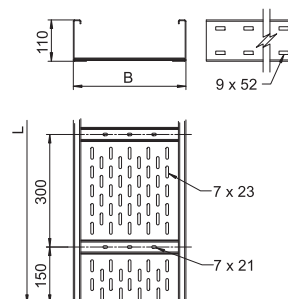


Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
WKSG 120 A2	200	2.00	6	713.833	6098161
WKSG 130 A2	300	2.00	6	821.933	6098165
WKSG 140 A2	400	2.00	6	927.100	6098169
WKSG 150 A2	500	2.00	6	1,041.600	6098173
WKSG 160 A2	600	2.00	6	1,143.283	6098177

price/m

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

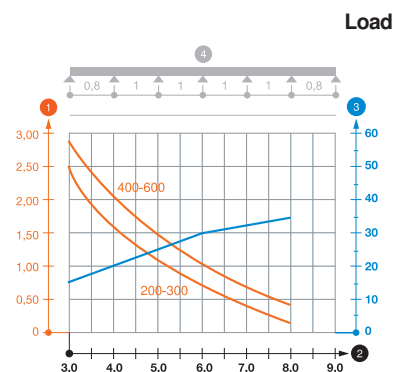
Wide span cable tray system, perforated, with a side height of 110 mm.



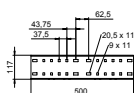
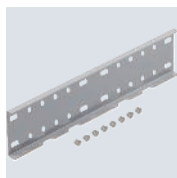
	3.0 m	4.0 m	5.0 m	6.0 m	7.0 m	8.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m	kN/m
WKSG 120 A2	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 130 A2	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 140 A2	2.9	2	1.5	1	0.7	0.4
WKSG 150 A2	2.9	2	1.5	1	0.7	0.4
WKSG 160 A2	2.9	2	1.5	1	0.7	0.4

Load diagram, wide span cable tray, type WKSG 110

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



Straight connector 110



Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 110 A2	110	2	154.200	6091229

/pc.

Including appropriate bolts, washers and nuts.

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

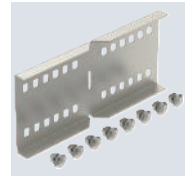
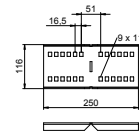
VA 2B

Angle connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 110 A2	110	2	82.000	6091393

/pc.

Angle connector for wide span cable trays and ladders with a side height of 110 mm.



VA 2B

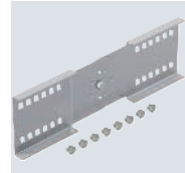
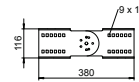
Adjustable connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 110 A2	110	2	120.000	6091338

/pc.

Including appropriate bolts, washers and nuts.

Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.



VA 2B

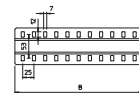
Joint plate

Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
SSLB 100 A2	100	20	7.700	7070353
SSLB 200 A2	200	20	18.500	7070361
SSLB 300 A2	300	20	29.200	7070365
SSLB 400 A2	400	20	38.200	7070369
SSLB 500 A2	500	20	49.000	7070373
SSLB 600 A2	600	20	58.000	7070381

/pc.

Wide joint plate for use in all cable trays and wide span cable trays.

Including appropriate fastening material.



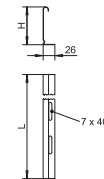
VA 2B

Barrier strip 85

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

price/m

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



VA 2B

Separating retainer connector

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

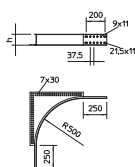
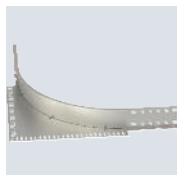
/pc.

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



Corner extension piece 110

VA 2B



Type	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WEAS 110 A2	110	1	485.500	6098483

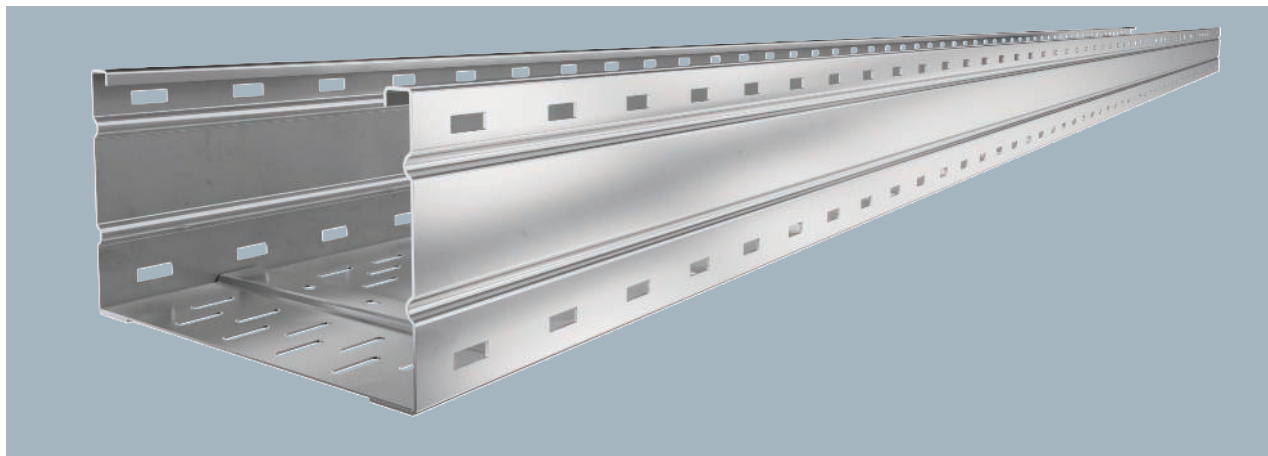
/pc.

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

Wide span cable tray WKSG 160

VA 2B

Wide span cable tray WKSG 160

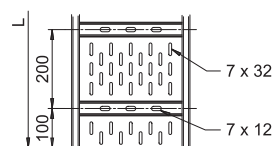
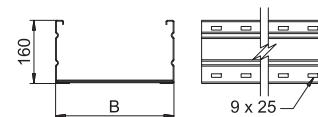


Type	Width mm	Metal thick- ness mm	Pack m	Weight kg/100 m	Item no.
WKSG 162 A2	200	2.00	6	895.067	6098571
WKSG 163 A2	300	2.00	6	1,003.167	6098573
WKSG 164 A2	400	2.00	6	1,108.333	6098575
WKSG 165 A2	500	2.00	6	1,216.417	6098577
WKSG 166 A2	600	2.00	6	1,324.170	6098579

price/m

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

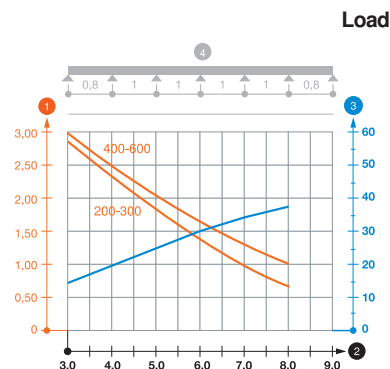
Wide span cable tray system, perforated, with a side height of 160 mm.



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

Load diagram, wide span cable tray, type WKSG 160

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

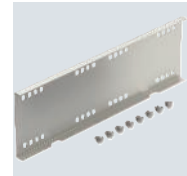
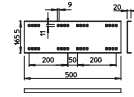


VA 2B

Straight connector 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 160 A2	160	2	218.000	6227724

/pc.



Including appropriate bolts, washers and nuts.

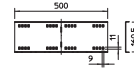
Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 160 mm.

VA 2B

Angle connector 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 160 A2	160	2	199.800	6227836

/pc.



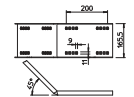
Angle connector for wide span cable trays and ladders with a side height of 160 mm.

VA 2B

45° angle connector, internal 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 160 I A2	160	1	239.000	6227914

/pc.



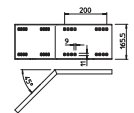
45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

VA 2B

45° angle connector, external 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 160 A A2	160	1	234.000	6227868

/pc.



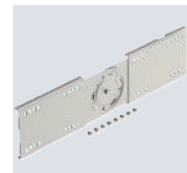
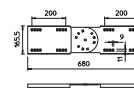
45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

VA 2B

Adjustable connector 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 160 A2	160	2	300.200	6227965

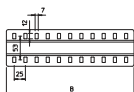
/pc.



Including appropriate bolts, washers and nuts.

Adjustable connector for wide span cable trays and ladders with a side height of 160 mm.

Joint plate

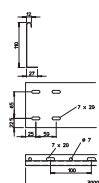


Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
SSLB 100 A2	100	20	7.700	7070353
SSLB 200 A2	200	20	18.500	7070361
SSLB 300 A2	300	20	29.200	7070365
SSLB 400 A2	400	20	38.200	7070369
SSLB 500 A2	500	20	49.000	7070373
SSLB 600 A2	600	20	58.000	7070381

/pc.

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

Barrier strip 110



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

price/m

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

Separating retainer connector

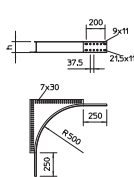
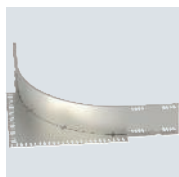


Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

/pc.

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

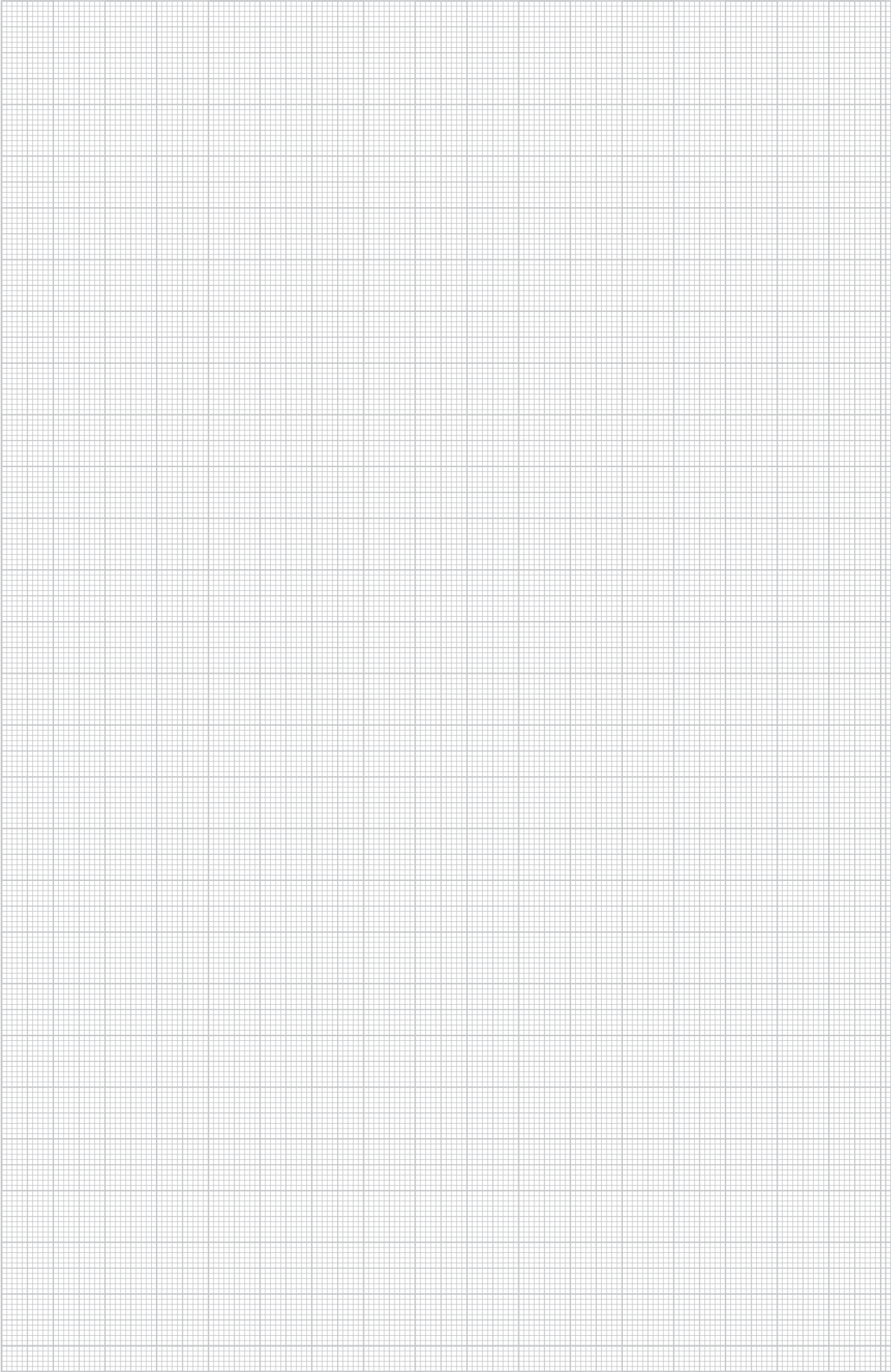
Corner extension piece 160



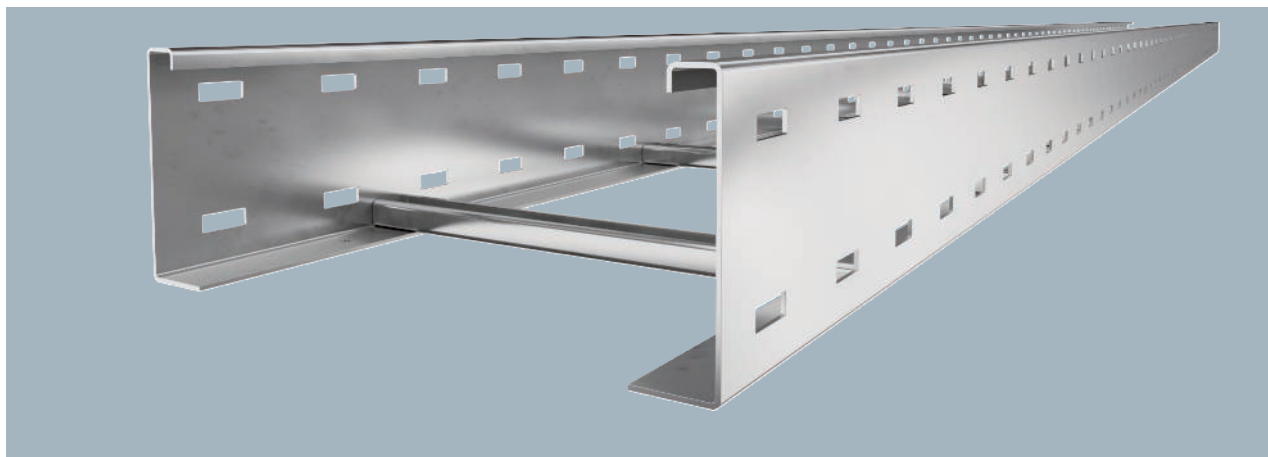
Type	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WEAS 160 A2	160	1	702.000	6098868

/pc.

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



Wide span cable ladder WKLG 110



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

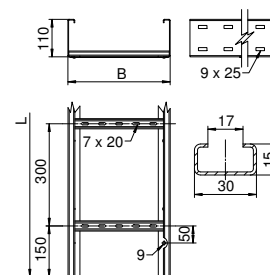
price/m

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

Wide span cable ladder with perforated side rails of side height of 110 mm. Fastening of cables with clamp clip, type 2056.

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

Dimensions

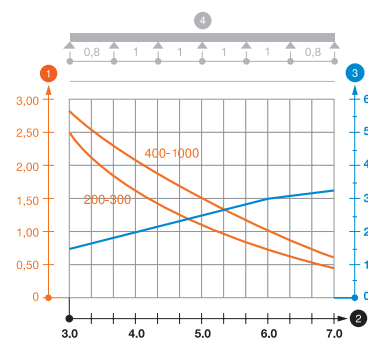


	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m
WKLG 1120 A2	1.6	1.1	0.8	0.4
WKLG 1130 A2	1.6	1.1	0.8	0.4
WKLG 1140 A2	2.1	1.5	1	0.7
WKLG 1150 A2	2.1	1.5	1	0.7
WKLG 1160 A2	2.1	1.5	1	0.7

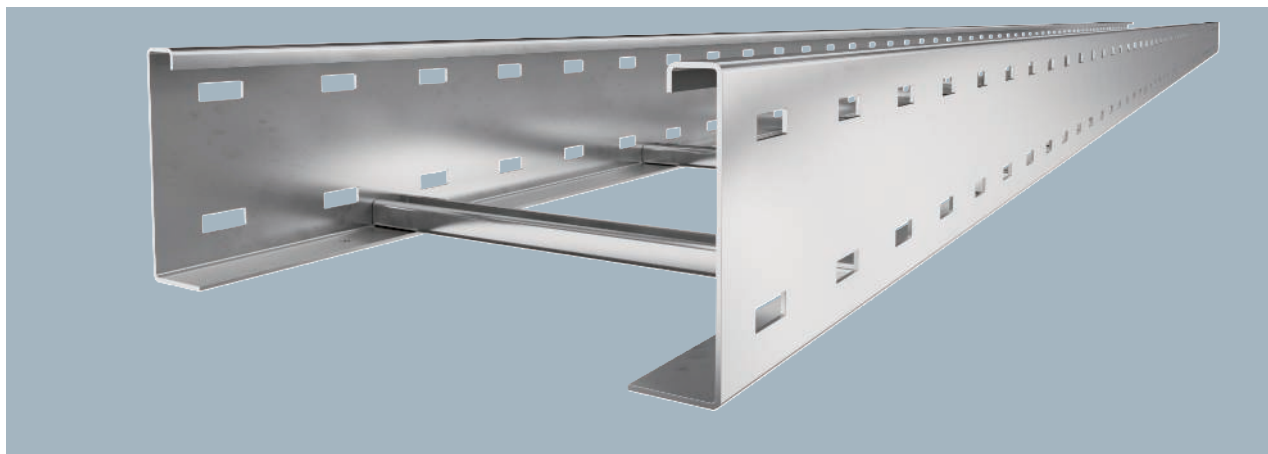
Load diagram, wide span cable ladder, type WKLG 110.

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

Load



Wide span cable ladder WKLG 110



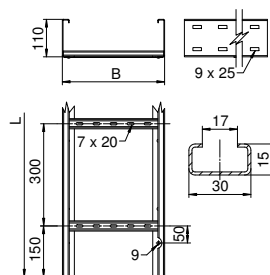
Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

Wide span cable ladder with perforated side rails of side height of 110 mm. Fastening of cables with clamp clip, type 2056.

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

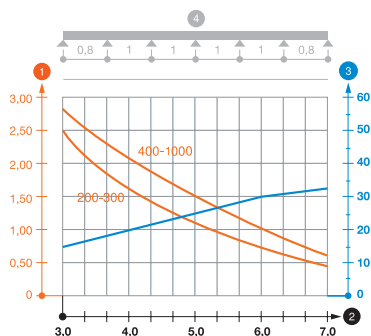
price/m

Dimensions



Type	Dim. L mm	Dim. B mm	Usable cross- section cm ²
WKLG 1120 A4	6000	200	186
WKLG 1130 A4	6000	300	281
WKLG 1140 A4	6000	400	376
WKLG 1150 A4	6000	500	471
WKLG 1160 A4	6000	600	566

Load



	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m
WKLG 1120 A4	1.6	1.1	0.8	0.4
WKLG 1130 A4	1.6	1.1	0.8	0.4
WKLG 1140 A4	1.6	1.1	0.8	0.4
WKLG 1150 A4	1.6	1.1	0.8	0.4
WKLG 1160 A4	1.6	1.1	0.8	0.4

Load diagram, wide span cable ladder, type WKLG 110

1 Permitted cable tray/ladder load in kN/m without man load

2 Support width in m

3 Rail bend in mm at permitted kN/m

4 Load scheme during testing

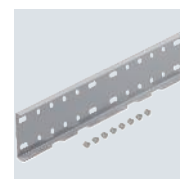
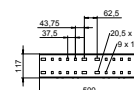
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Straight connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 110 A2	110	2	154.200	6091229
WRVL 110 A4	110	2	154.400	6091234

/pc.

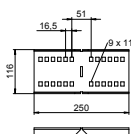
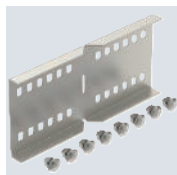


Including appropriate bolts, washers and nuts.

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

Angle connector 110

VA VA 2B



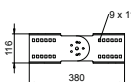
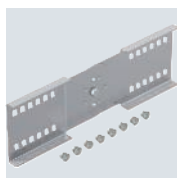
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 110 A2	110	2	82.000	6091393
WRWVK 110 A4	110	2	82.000	6091397

/pc.

Angle connector for wide span cable trays and ladders with a side height of 110 mm.

Adjustable connector 110

VA VA 2B



Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 110 A2	110	2	120.000	6091338
WRGV 110 A4	110	2	120.000	6091343

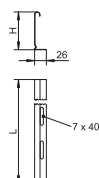
/pc.

Including appropriate bolts, washers and nuts.

Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.

Barrier strip 85

VA 2B



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

price/m

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

Separating retainer connector

VA 2B



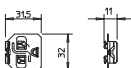
Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6062970

/pc.

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

Hold-down clamp for separating retainer fastening

VA 2B



Type	Pack Piece	Weight kg/100 pc.	Item no.
KS KL A2	30	0.512	6062284

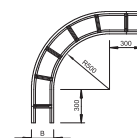
/100 pc.

Hold-down clamp for screwless fastening of the separating retainer in cable ladders.

VA VA 2B

90° bend 110

Type	Dim. B mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
WLB 90 112 A2	200	2	1	881.800	6312539
WLB 90 113 A2	300	2	1	1,030.000	6312541
WLB 90 114 A2	400	2	1	1,052.100	6312543
WLB 90 115 A2	500	2	1	1,230.000	6312545
WLB 90 116 A2	600	2	1	1,330.000	6312547
WLB 90 112 A4	200	2	1	881.800	6312550
WLB 90 113 A4	300	2	1	1,030.000	6312552
WLB 90 114 A4	400	2	1	1,052.100	6312554
WLB 90 115 A4	500	2	1	1,151.300	6312556
WLB 90 116 A4	600	2	1	1,330.000	6312558



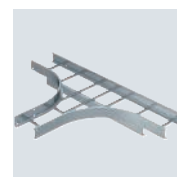
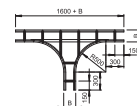
/pc.

90° bend, horizontal, for all wide span cable ladders of 110 mm side height.

VA 2B

T branch piece 110

Type	Dim. B mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
WLT 1120 A2	200	2	1	1,750.000	6312802
WLT 1130 A2	300	2	1	1,870.000	6312804
WLT 1140 A2	400	2	1	1,990.000	6312806
WLT 1150 A2	500	2	1	2,147.000	6312808
WLT 1160 A2	600	2	1	2,340.000	6312810



/pc.

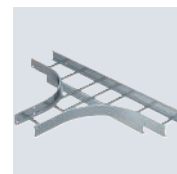
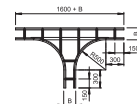
For further stabilisation, additional supports should be planned for the area of the fittings.

Horizontal tee, for all wide span cable ladders of 110 mm side height.

VA 2B

T branch piece 110

Type	Dim. B mm	Rail thick- ness mm	Pack Piece	Weight kg/100 pc.	Item no.
WLT 1120 A4	200	2	1	1,750.000	6312815
WLT 1130 A4	300	2	1	1,870.000	6312817
WLT 1140 A4	400	2	1	1,990.000	6312819
WLT 1150 A4	500	2	1	2,147.000	6312821
WLT 1160 A4	600	2	1	2,340.000	6312823

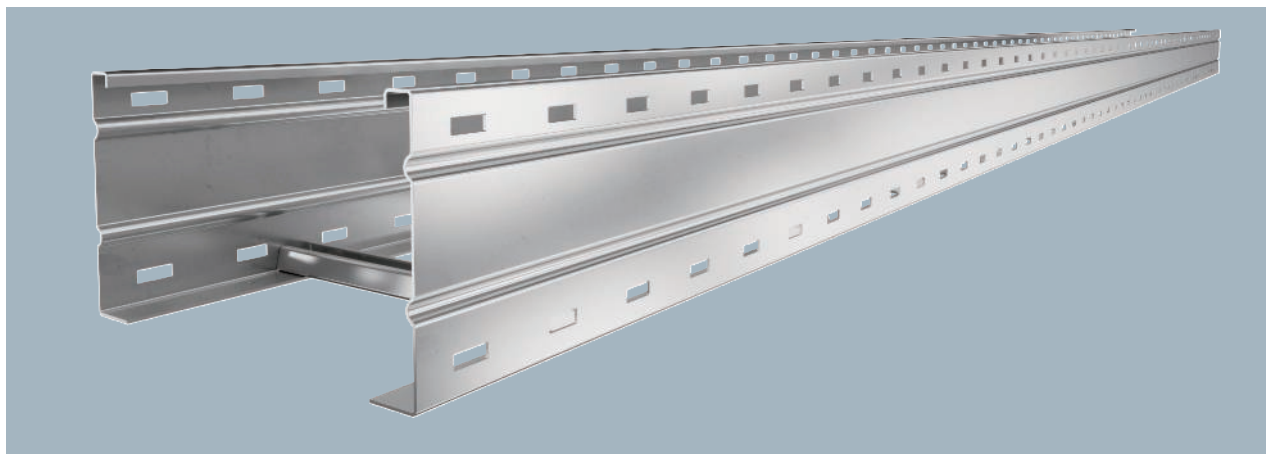


/pc.

Horizontal T branch piece, for all wide span cable ladders of 110 mm side height.



Wide span cable ladder WKLG 160



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

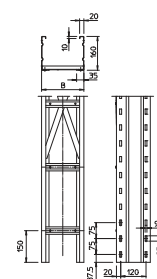
price/m

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

Wide span cable ladder with perforated side rail of side height of 160 mm. Fastening of cables with clamp clip, type 2056.

Type	Dim. L mm	Dim. B mm	Usable cross- section cm ²
WKLG 1620 A4	6000	200	282
WKLG 1630 A4	6000	300	427
WKLG 1640 A4	6000	400	572
WKLG 1650 A4	6000	500	717
WKLG 1660 A4	6000	600	857

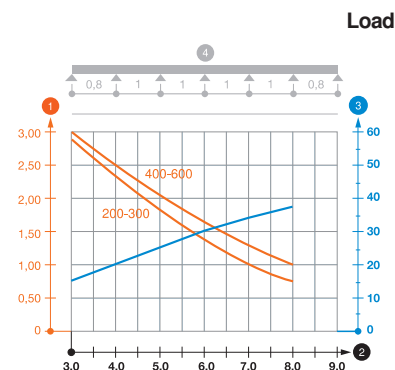
Dimensions



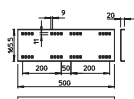
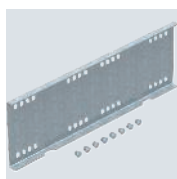
	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKLG 1620 A4	1.8	1.4	1	0.7
WKLG 1630 A4	1.8	1.4	1	0.7
WKLG 1640 A4	2	1.6	1.3	1
WKLG 1650 A4	2	1.6	1.3	1
WKLG 1660 A4	2	1.6	1.3	1

Load diagram, wide span cable ladder, type WKLG 160

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



Straight connector 160



Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 160 A4	160	2	250.000	6227730

/pc.

Including appropriate bolts, washers and nuts.

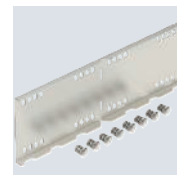
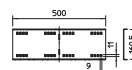
Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 160 mm.

VA 2B

Angle connector 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 160 A4	160	2	199.800	6227837

45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.
Including appropriate bolts, washers and nuts.

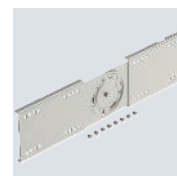
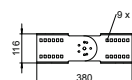


VA 2B

Adjustable connector 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 160 A4	160	2	300.300	6227967

Adjustable connector for wide span cable trays and ladders with a side height of 160 mm.
Including appropriate bolts, washers and nuts.



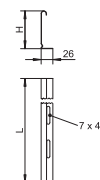
VA 2B

Barrier strip 85

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

price/m

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



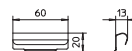
VA 2B

Separating retainer connector

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

/pc.

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



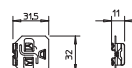
VA 2B

Hold-down clamp for separating retainer fastening

Type	Pack Piece	Weight kg/100 pc.	Item no.
KS KL A2	30	0.512	6062284

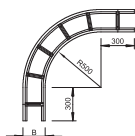
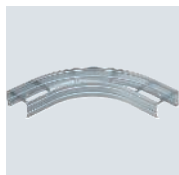
/100 pc.

Hold-down clamp for screwless fastening of the separating retainer in cable ladders.



90° bend 160

VA 2B



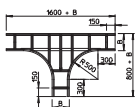
Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
WLB 90 162 A4	200	2	1	1,145.000	6229500
WLB 90 163 A4	300	2	1	1,250.000	6229502
WLB 90 164 A4	400	2	1	1,356.000	6229504
WLB 90 165 A4	500	2	1	1,504.000	6229506
WLB 90 166 A4	600	2	1	1,618.000	6229508

/pc.

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

T branch piece 160

VA 2B



Type	Dim. B mm	Rail thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
WLT 1620 A4	200	2	1	2,249.000	6229820
WLT 1630 A4	300	2	1	2,452.000	6229822
WLT 1640 A4	400	2	1	2,604.000	6229824
WLT 1650 A4	500	2	1	2,756.000	6229826
WLT 1660 A4	600	2	1	2,907.000	6229828

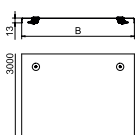
/pc.

Horizontal T branch piece, for all wide span cable ladders of 160 mm side height.

Accessories for cable ladders, side height 110, 160 mm

Cover with turn buckle

VA 2B



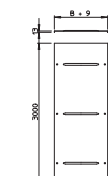
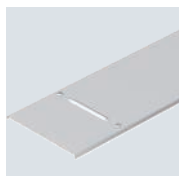
Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
WDRL 1116 20 A2	200	1.50	3000	3	186.670	6227360
WDRL 1116 30 A2	300	1.50	3000	3	265.340	6227362
WDRL 1116 40 A2	400	1.50	3000	3	513.000	6227364
WDRL 1116 50 A2	500	1.50	3000	3	629.670	6227366
WDRL 1116 60 A2	600	1.50	3000	3	747.670	6227368

price/m

Cover for wide span trays and ladders with the side height 110 and 160 mm.

Cover with turn buckle

VA 2B



Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
WDRL 1116 20 A4	200	1.50	3000	3	186.670	6227361
WDRL 1116 30 A4	300	1.50	3000	3	265.334	6227363
WDRL 1116 40 A4	400	1.50	3000	3	513.000	6227365
WDRL 1116 50 A4	500	1.50	3000	3	629.670	6227367
WDRL 1116 60 A4	600	1.50	3000	3	747.667	6227369

Cover for wide span trays and ladders with the side height 110 and 160 mm.

VA 2B

Spacer for cover

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
AH 35 WS A2	35	8	14.500	6065477

/pc.

Spacer for stand-off mounting of covers on wide span cable trays and wide span cable ladders. Space height 35 mm, stainless steel 1.4301.



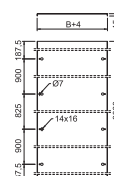
VA VA 2B

Cover for stand-off mounting

Type	Width mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL FAM 230 A2	230	1.50	3000	3	299.370	6051192
DRL FAM 330 A2	330	1.50	3000	3	417.140	6051194
DRL FAM 430 A2	430	1.50	3000	3	534.870	6051196
DRL FAM 530 A2	530	1.50	3000	3	652.640	6051198
DRL FAM 630 A2	630	1.50	3000	3	770.370	6051200
DRL FAM 230 A4	230	1.50	3000	3	299.370	6051210
DRL FAM 330 A4	330	1.50	3000	3	417.140	6051212
DRL FAM 430 A4	430	1.50	3000	3	534.870	6051214
DRL FAM 530 A4	530	1.50	3000	3	652.640	6051216
DRL FAM 630 A4	630	1.50	3000	3	770.370	6051218

price/m

Cover for stand-off mounting. Not suitable for the vertical ladders SLM and SLS.



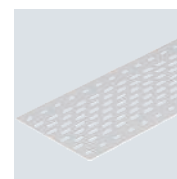
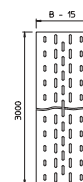
VA 2B

ELB-L insertion plate

Type	Dim. B mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
ELB-L20 A2	200	1.00	3000	3	94.400	6103614
ELB-L30 A2	300	1.00	3000	3	146.567	6103618
ELB-L40 A2	400	1.00	3000	3	198.700	6103622
ELB-L50 A2	500	1.00	3000	3	250.867	6103626
ELB-L60 A2	600	1.00	3000	3	303.033	6103630

price/m

Insert plate for use in cable ladders.



VA 2B

Turn buckle for screwing

Type	Pack Piece	Weight kg/100 pc.	Item no.
DRL H S A2	20	3.260	6065016

Turn buckle for additional mounting or mounting at a later date.

Depending on the cover version, dimension B varies as follows:

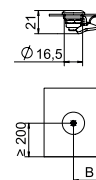
DRL / DRLU = 27 mm

DBKR = 27 mm

WDRL = 38 mm

WKLD = 58 mm

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



Vertical ladders

Vertical ladders



Vertical ladders

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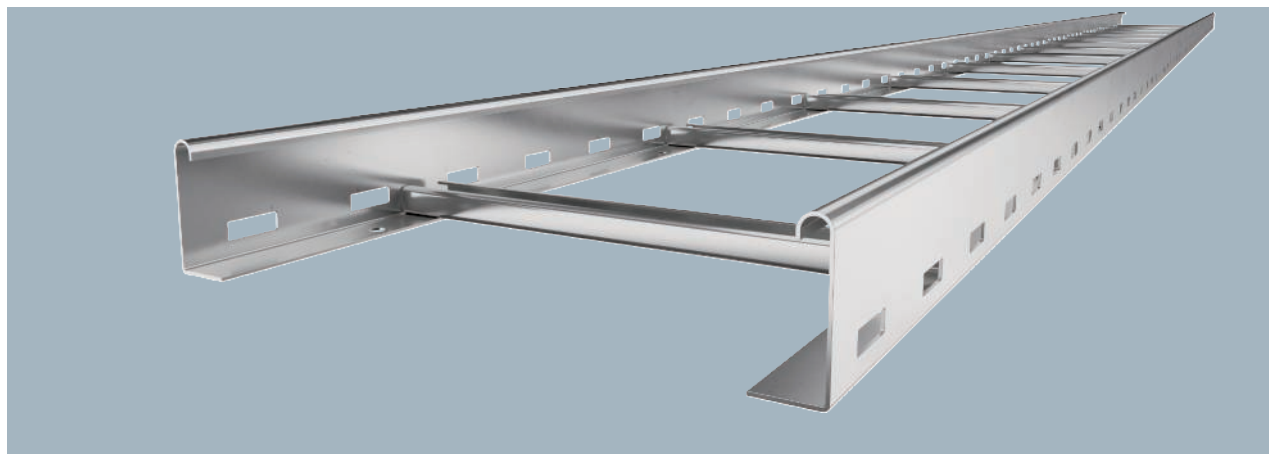
Clamp clips

188



Cable ladder LG 60, 6 m VS

VA VA 2B



Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 620 VS6 A2	200	6	267.067	6208700
LG 630 VS6 A2	300	6	288.733	6208703
LG 640 VS6 A2	400	6	314.400	6208706
LG 650 VS6 A2	500	6	332.400	6208709
LG 660 VS6 A2	600	6	354.066	6208712
LG 620 VS6 A4	200	6	267.733	6101200
LG 630 VS6 A4	300	6	288.733	6101208
LG 640 VS6 A4	400	6	314.400	6101216
LG 650 VS6 A4	500	6	341.666	6101223
LG 660 VS6 A4	600	6	354.000	6101232

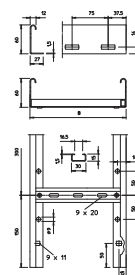
price/m

The cable ladder is shipped folded up. You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

Type	Length mm	Dim. B mm	Rail thick- ness mm	Usable cross- section cm ²	Rung spacing mm
LG 620 VS6 A2	6000	200	1.5	98	300
LG 630 VS6 A2	6000	300	1.5	148	300
LG 640 VS6 A2	6000	400	1.5	198	300
LG 650 VS6 A2	6000	500	1.5	248	300
LG 660 VS6 A2	6000	600	1.5	298	300

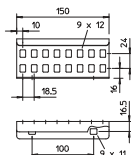
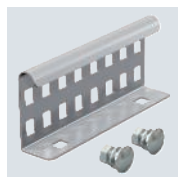
Dimensions



Vertical cable ladder accessories 60

Straight connector 60

VA 2B



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

/pc.

The bolt fastening ensures the continuity of the equipotential bonding.

Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

VA 2B

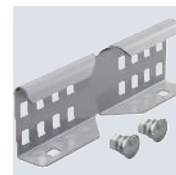
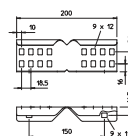
Angle connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LWVG 60 A2	60	10	24.000	6208898

/pc.

The bolt fastening ensures the continuity of the equipotential bonding.

Angle connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation.



VA 2B

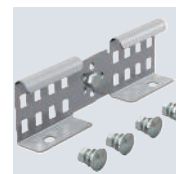
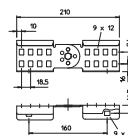
Adjustable connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LGVG 60 A2	60	10	28.500	6208947

/pc.

The bolt fastening ensures the continuity of the equipotential bonding.

Adjustable connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation. Angle can be adjusted vertically.



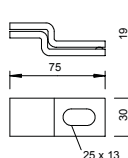
VA 2B

Wall bracket

Type	Pack Piece	Weight kg/100 pc.	Item no.
WB 30 75 A2	10	18.000	6019668

/pc.

Wall bracket for fastening vertical ladders, type LG 60, to concrete walls and masonry.



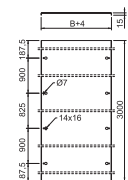
VA VA 2B

Cover for stand-off mounting

Type	Width mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL FAM 230 A2	230	1.50	3000	3	299.370	6051192
DRL FAM 330 A2	330	1.50	3000	3	417.140	6051194
DRL FAM 430 A2	430	1.50	3000	3	534.870	6051196
DRL FAM 530 A2	530	1.50	3000	3	652.640	6051198
DRL FAM 630 A2	630	1.50	3000	3	770.370	6051200
DRL FAM 230 A4	230	1.50	3000	3	299.370	6051210
DRL FAM 330 A4	330	1.50	3000	3	417.140	6051212
DRL FAM 430 A4	430	1.50	3000	3	534.870	6051214
DRL FAM 530 A4	530	1.50	3000	3	652.640	6051216
DRL FAM 630 A4	630	1.50	3000	3	770.370	6051218

price/m

Cover for stand-off mounting. Not suitable for the vertical ladders SLM and SLS.



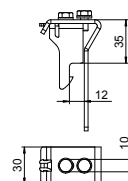
VA 2B

Spacer for cover

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
AH 35 A2	35	8	14.100	6065475

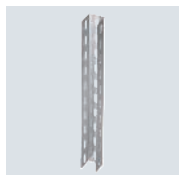
/pc.

Spacers for stand-off cover mounting on cable trays and cable ladders. Space height 35 mm, stainless steel 1.4301.



US 5 support

VA 2B



Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
US 5 300 A2	3000	2.5	1	737.000	6341152

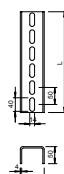
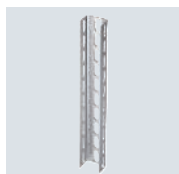
/pc.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.

U support in fixed lengths. Dimensions 50 x 50 mm.

US 7 support

VA 2B



Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
US 7 300 A2	3000	4	1	1,176.300	6341969
US 7 600 A2	6000	4	1	2,433.000	6341993

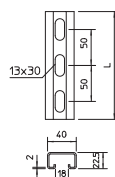
/pc.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

U support in fixed lengths. Dimensions 70 x 50 mm.

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

VA 2B



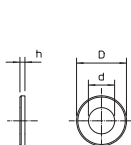
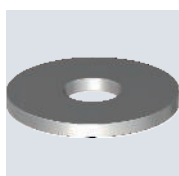
Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS4022P2000A2	2000	2	10	152.500	1121960

price/100 m

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

Fender washer

A2 2B



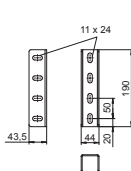
Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M8 D25 A2	M8	8.4	25	1.5	100	0.370	3403135
WS M10 D30 A2	M10	10.5	30	1.5	100	0.592	3403155

/100 pc.

Washer of particularly large outer diameter. In the case of connections on the MS 41 mounting rail, we recommend the external diameter of 40 mm.

U support connector VUS 5

VA 2B



Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 5 A4	1	64.800	6018509

/pc.

Including appropriate fastening material.

U support connector to connect US 5 supports.

VA 2B

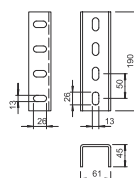
VUS 7 U support connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 7 A2	1	110.900	6018408

/pc.

Including appropriate fastening material.

U support connector to connect US 7 supports.



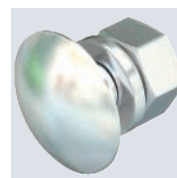
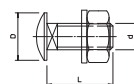
VA

Truss-head bolt with nut and washer

Type	Dimen- sion mm	Dim. L mm	Dim. d mm	Dim. D mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRS 8x35 A2	M 8 x 35	35	8	20	A2-70	50	2.700	6406823
FRS 10x20 A2	M 10 x 20	20	10	24	A2-70	50	4.100	6406866

/100 pc.

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



VA 2B

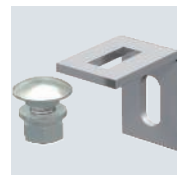
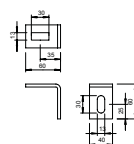
Mounting angle BW 60

Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 60 40 A2	10	16.000	6019587

/pc.

Including truss-head bolt M12 x 25.

Mounting angle of limb dimension 60 x 60 mm.



VA

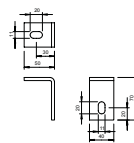
Mounting angle BW 70

Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 70 40 A2	10	19.900	6019710

/pc.

Including truss-head bolt M10 x 25.

Mounting angle of limb dimension 70 x 50 mm.



Clamp clip, single, plastic pressure trough

VA 2B



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056 12 A2	8-12	50	3.300	1159518
2056 16 A2	12-16	50	3.600	1159526
2056 22 A2	16-22	50	4.200	1159534
2056 28 A2	22-28	50	6.500	1159542
2056 34 A2	28-34	50	7.400	1159550
2056 40 A2	34-40	25	8.000	1159569
2056 46 A2	40-46	25	10.900	1159577
2056 52 A2	46-52	25	11.400	1159585
2056 58 A2	52-58	25	14.500	1159593
2056 64 A2	58-64	15	15.600	1159607
2056 70 A2	64-70	15	18.200	1159615
2056 76 A2	70-76	10	20.800	1159623

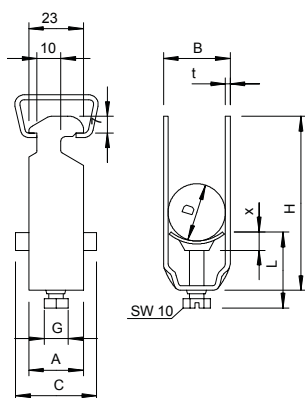
/100 pc.

Suitable for all C profile rails with slot width 16–17 mm.

Clip and bolt.

Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dimen- sion G	Dim. t mm	Dim. x mm	Dim. H mm	Dim. L mm	Max. torque Nm
2056 12 A2	8-12	23	16	34	M6	1.5	5	40	34	3
2056 16 A2	12-16	23	20	34	M6	1.5	5	44	34	3
2056 22 A2	16-22	23	27	34	M6	1.5	5	50	34	3
2056 28 A2	22-28	23	33	34	M6	2	5	58	34	3
2056 34 A2	28-34	23	39	34	M8	2	5.5	66	34	5
2056 40 A2	34-40	23	45	34	M8	2	5.5	72	37.5	5
2056 46 A2	40-46	23	51	40	M8	2	5.5	79	44.5	5
2056 52 A2	46-52	23	57	40	M8	2	6.5	86	44.5	5
2056 58 A2	52-58	23	64	40	M8	2.5	6.5	93	45.5	5
2056 64 A2	58-64	23	70	40	M8	2.5	6.5	99	45.5	5
2056 70 A2	64-70	23	76	40	M8	2.5	6.5	106	45.5	5
2056 76 A2	70-76	25	82	40	M8	2.5	6.5	114	45.5	5

VA 2B

Clamp clip, double, plastic pressure trough

Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056 2 22 A2	16-22	50	5.150	1161822
2056 2 28 A2	22-28	50	7.700	1161830
2056 2 34 A2	28-34	50	10.200	1161849
2056 2 40 A2	34-40	25	14.350	1161857
2056 2 46 A2	40-46	25	14.950	1161865
2056 2 52 A2	46-52	25	16.700	1161873
2056 2 58 A2	52-58	25	21.400	1161881
2056 2 64 A2	58-64	15	24.250	1161903

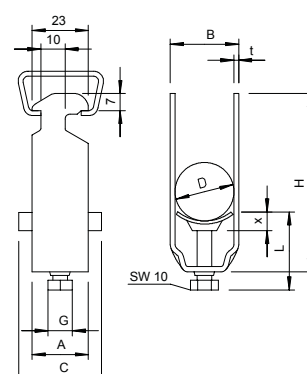
/100 pc.



Suitable for all C profile rails with slot width 16–17 mm; stainless steel clip and bolt, polypropylene pressure trough, halogen-free, light grey RAL 7035.

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. sion G mm	Dim. t mm	Dim. x mm	Dim. H mm	Dim. L mm	Max. torque Nm
2056 2 22 A2	16-22	23	27	34	M6	1.5	5	73	47	3
2056 2 28 A2	22-28	23	33	34	M6	2	5	87	47	3
2056 2 34 A2	28-34	23	39	34	M8	2	6	101	44.5	5
2056 2 40 A2	34-40	23	45	34	M8	2	6	114	44.5	5
2056 2 46 A2	40-46	23	51	40	M8	2	6	129	44.5	5
2056 2 52 A2	46-52	23	57	40	M8	2	6.5	129	45.5	5
2056 2 58 A2	52-58	23	64	40	M8	2.5	6.5	154	45.5	5
2056 2 64 A2	58-64	23	70	40	M8	2.5	6.5	167	44.5	5

Dimensions



VA 2B

Clamp clip, single, metal pressure trough

Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056W M 28 A2	22-28	100	7.800	1185706
2056W M 34 A2	28-34	100	9.400	1185708

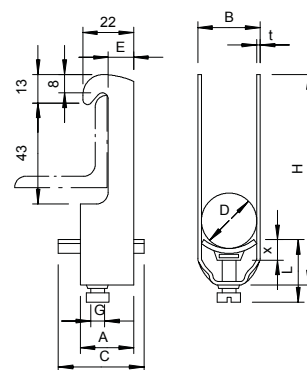
/100 pc.

Also suitable for angular steels with a 40 mm hip length; clip, pressure trough and screw made of hot-dip galvanised steel.



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. sion G mm	Dim. t mm	Dim. x mm	Dim. H mm	Dim. L mm	Max. torque Nm
2056W M 28 A2	22-28	23	33	28	M6	2	4	91	26	3
2056W M 34 A2	28-34	23	39	33	M8	2	4	99	29.5	5

Dimensions



Clamp clip, single, plastic pressure trough

VA 2B

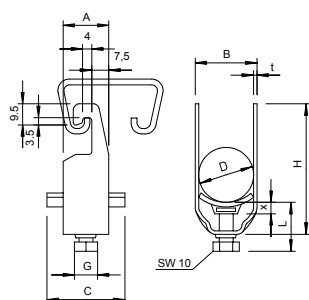


Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056U 12 A2	8-12	50	3.000	1178504
2056U 16 A2	12-16	50	3.200	1178512
2056U 22 A2	16-22	50	3.800	1178520
2056U 28 A2	22-28	50	5.350	1178539
2056U 34 A2	28-34	50	7.200	1178547
2056U 40 A2	34-40	25	8.100	1178555
2056U 46 A2	40-46	25	9.900	1178563
2056U 52 A2	46-52	25	11.200	1178571
2056U 58 A2	52-58	25	13.400	1178598
2056U 64 A2	58-64	15	14.300	1178601
2056U 70 A2	64-70	15	20.500	1178628
2056U 76 A2	70-76	10	19.100	1178636

/100 pc.

Suitable for all C profile rails with slot width 18 mm and 22 mm.
Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Dim. E mm	Dim. F mm	Dim. G mm	Dim. H mm	Dim. I mm	Dim. J mm	Dim. K mm	Dim. L mm	Max. torque Nm
2056U 12 A2	8-12	20	16	34	M6	1.5	5	42	34	3				
2056U 16 A2	12-16	20	20	34	M6	1.5	5	46	34	3				
2056U 22 A2	16-22	20	27	34	M6	1.5	5	53	34	3				
2056U 28 A2	22-28	20	33	34	M6	2	5	59	34	3				
2056U 34 A2	28-34	20	39	34	M8	2	5.5	67	37.5	5				
2056U 40 A2	34-40	20	45	34	M8	2	5.5	73	37.5	5				
2056U 46 A2	40-46	20	51	40	M8	2	5.5	79	37.5	5				
2056U 52 A2	46-52	20	57	40	M8	2	6.5	85	38.5	5				
2056U 58 A2	52-58	23	64	40	M8	2.5	6.5	91	38.5	5				
2056U 64 A2	58-64	23	70	40	M8	2.5	6.5	97	38.5	5				
2056U 70 A2	64-70	23	76	40	M8	2.5	6.5	103	38.5	5				
2056U 76 A2	70-76	25	82	40	M8	2.5	6.5	110	45.5	5				

Clamp clip, single, metal pressure trough

VA 2B

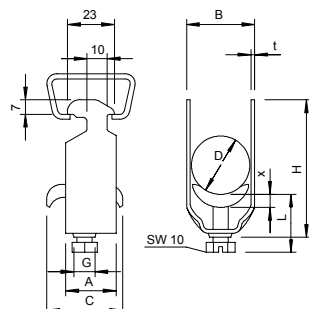


Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056 M 12 A2	8-12	50	3.200	1159712
2056 M 16 A2	12-16	50	3.500	1159716
2056 M 22 A2	16-22	50	4.400	1159722
2056 M 28 A2	22-28	25	6.100	1159728
2056 M 34 A2	28-34	25	7.700	1159734
2056 M 40 A2	34-40	25	8.600	1159740
2056 M 46 A2	40-46	25	9.600	1159746
2056 M 52 A2	46-52	25	10.400	1159752
2056 M 58 A2	52-58	15	13.100	1159758
2056 M 64 A2	58-64	15	14.500	1159764
2056 M 70 A2	64-70	15	16.100	1159770
2056 M 76 A2	70-76	10	18.300	1159776

/100 pc.

Suitable for all C profile rails with slot width 16-17 mm.
Clip, bolt and pressure trough all made of rust-proof stainless steel.

Dimensions



Type	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Dim. E mm	Dim. F mm	Dim. G mm	Dim. H mm	Dim. I mm	Dim. J mm	Dim. K mm	Dim. L mm	Max. torque Nm
2056 M 12 A2	23	16	30	M6	1.5	3.5	44	32.5	3				
2056 M 16 A2	23	20	30	M6	1.5	3.5	44	32.5	3				
2056 M 22 A2	23	27	30	M6	1.5	3.5	60	32.5	3				
2056 M 28 A2	23	33	30	M6	2	5	58	44	3				
2056 M 34 A2	23	39	35	M8	2	5	66	44	5				
2056 M 40 A2	23	45	35	M8	2	5	72	44	5				
2056 M 46 A2	23	51	35	M8	2	5	79	44	5				
2056 M 52 A2	23	57	35	M8	2	5	86	44	5				
2056 M 58 A2	23	64	35	M8	2	5	93	44	5				
2056 M 64 A2	23	70	35	M8	2.5	5	99	56	5				
2056 M 70 A2	25	76	35	M8	2.5	5	106	56	5				
2056 M 76 A2	25	82	40	M8	2.5	5	114	56	5				

VA 2B

Clamp clip, single, metal pressure trough

Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056U M 12 A4	8-12	100	3.300	1158207
2056U M 16 A4	12-16	100	3.520	1158211
2056U M 22 A4	16-22	100	3.590	1158215
2056U M 28 A4	22-28	100	4.930	1158219
2056U M 34 A4	28-34	100	6.656	1158223
2056U M 40 A4	34-40	100	8.360	1158227
2056U M 46 A4	40-46	100	10.890	1158231
2056U M 52 A4	46-52	100	11.660	1158235
2056U M 58 A4	52-58	100	14.740	1158239
2056U M 64 A4	58-64	100	15.730	1158243
2056U M 70 A4	64-70	50	18.200	1158247
2056U M 76 A4	70-76	25	20.600	1158251

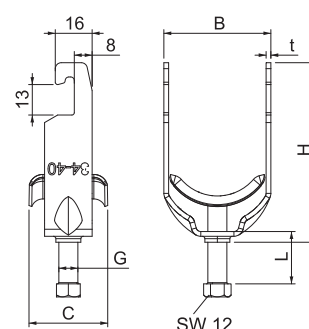
/100 pc.



Suitable for all C profile rails with slot width 18 mm and 22 mm.

Type	Dim. B mm	Dim. C mm	Dimen- sion G	t mm	Dim. H mm	Dim. L mm	Max. torque Nm
2056U M 12 A4	16	34	M6	1.5	43.5	25.5	3
2056U M 16 A4	20	34	M6	1.5	47.5	25.5	3
2056U M 22 A4	27	34	M6	1.5	54.5	22	3
2056U M 28 A4	33	34	M6	2	61	22	3
2056U M 34 A4	39	34	M8	2	69	28	5
2056U M 40 A4	45	34	M8	2	75.5	28	5
2056U M 46 A4	51	40	M8	2	81.5	28	5
2056U M 52 A4	57	40	M8	2	87.5	28	5
2056U M 58 A4	64	40	M8	2.5	93.5	30	5
2056U M 64 A4	70	40	M8	2.5	99.5	30	5
2056U M 70 A4	76	40	M8	2.5	105.5	30	5
2056U M 76 A4	82	40	M8	2.5	112.5	30	5

Dimensions



Clamp clips, fastening to angular steel

VA 2B

Clamp clip, single, plastic pressure trough

Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056W 22 A2	16-22	50	5.700	1185438
2056W 28 A2	22-28	50	7.800	1185446
2056W 34 A2	28-34	50	9.400	1185454
2056W 40 A2	34-40	25	10.000	1185462
2056W 46 A2	40-46	25	12.800	1185470
2056W 52 A2	46-52	25	13.600	1185489
2056W 58 A2	52-58	25	17.100	1185497

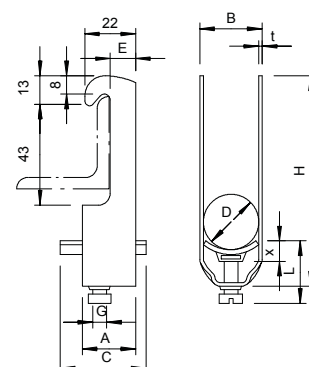
/100 pc.



Also suitable for angular steels of 40 mm shaft length; stainless steel clip and bolt, polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

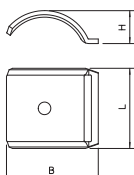
Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dimen- sion G	t mm	Dim. x mm	Dim. H mm	Dim. L mm	Max. torque Nm
2056W 22 A2	16-22	23	27	34	M6	1.5	5	85	41	3
2056W 28 A2	22-28	23	33	34	M6	2	5	91	42	3
2056W 34 A2	28-34	23	39	34	M8	2	5.5	99	52	5
2056W 40 A2	34-40	23	45	34	M8	2	5.5	105	54	5
2056W 46 A2	40-46	25	51	40	M8	2	5.5	111	55	5
2056W 52 A2	46-52	25	57	40	M8	2	6.5	117	57	5
2056W 58 A2	52-58	25	64	40	M8	2.5	6.5	123	58	5

Dimensions



Counter-trough, metal, universal

VA 2B



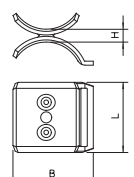
Type	Clamping range D mm	Dim. L mm	Dim. B mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
2058FW M 8 A2	4-8	35	13	225	100	0.249	1197096
2058FW M 12 A2	8-12	35	17.5	6.5	100	0.567	1197134
2058FW M 16 A2	12-16	35	21.5	7.7	100	0.770	1197177
2058FW M 22 A2	16-22	35	28	8.8	100	1.062	1197231
2058FW M 28 A2	22-28	35	34	10.4	100	1.356	1197290
2058FW M 34 A2	28-34	35	40	13.5	100	2.187	1197355
2058FW M 40 A2	34-40	35	46	15.1	100	2.576	1197428
2058FW M 46 A2	40-46	35	52	17.2	100	3.005	1197479
2058FW M 52 A2	46-52	35	58	19.2	50	3.425	1197533
2058FW M 58 A2	52-58	35	64	21.5	50	3.776	1197592
2058FW M 64 A2	58-64	35	70	24.5	50	4.203	1197606

/100 pc.

Irrespective of the rail, universally applicable by pushing onto a limb of the BBS clamp clip.

Double trough, metal

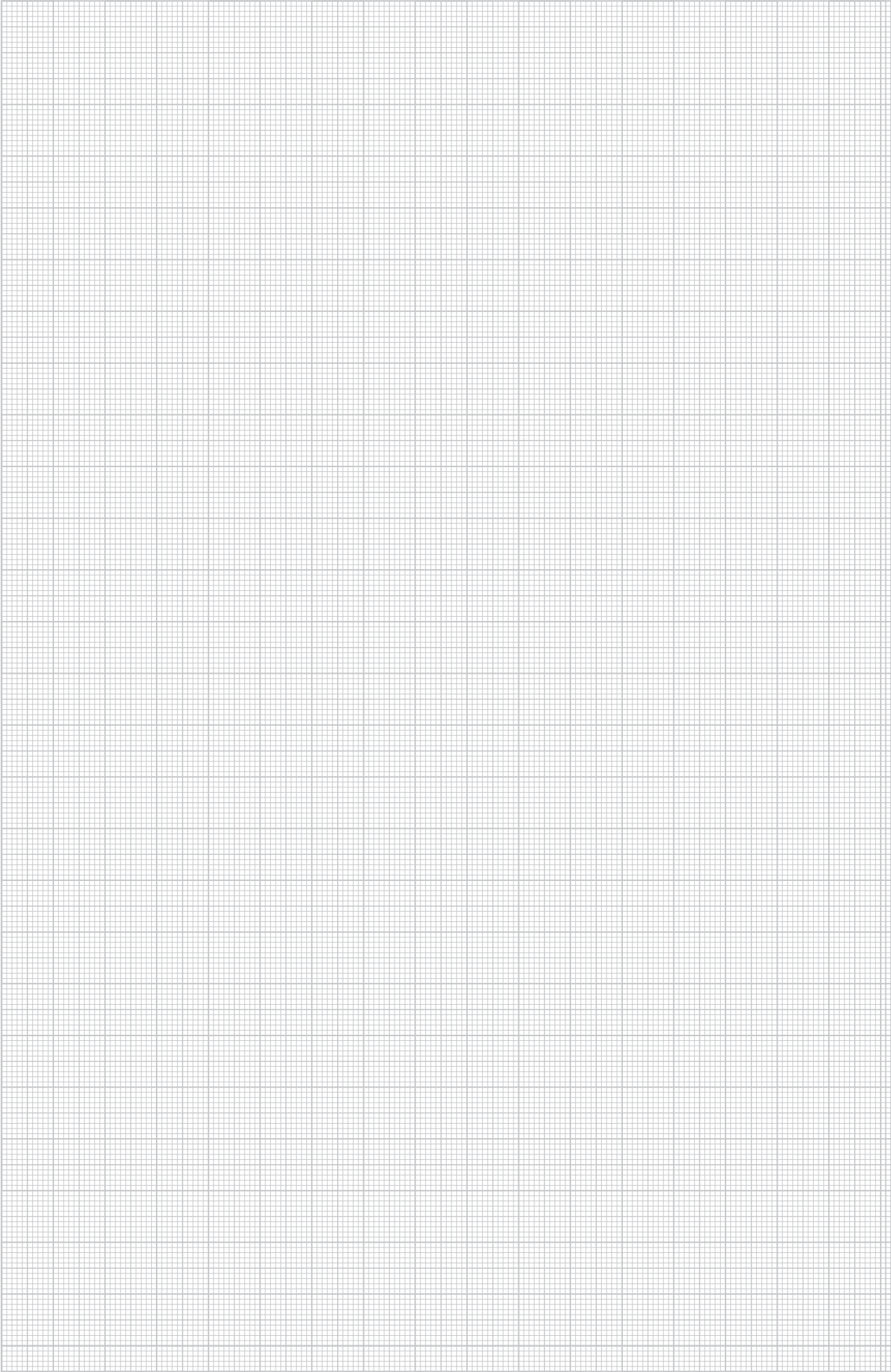
VA 2B



Type	Clamping range D mm	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
2058 M2 22 A2	16-22	500	50	2.300	1196597
2058 M2 28 A2	22-28	600	50	3.100	1196599
2058 M2 34 A2	28-34	300	50	3.760	1196601

/100 pc.

Clamp clips allows both cables and pipes to be fastened to profile rails. The clamp clips are hooked into the appropriate slot widths of the profile rails and the component to be fastened is pressed onto the profile rail with the pressure trough of the clamp clip and held in place.



Industrial ducts

Industrial ducts



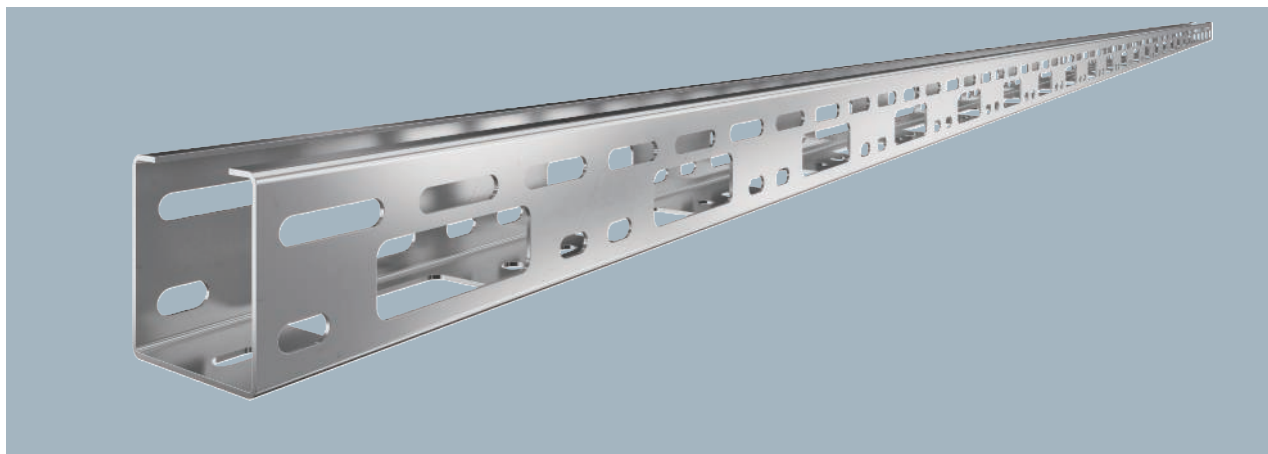
AZsmall ducts

196



AZ small duct 50

VA 2B



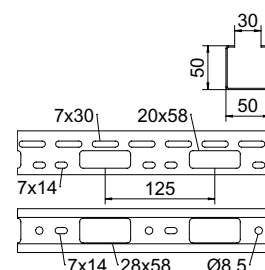
Type	Pack m	Weight kg/100 m	Item no.
AZK 050 A2	3	135.700	6075150

price/m

AZ channel with a side height of 50 mm.

Type	Length mm	Width mm	Side height mm	Metal thick- ness mm
AZK 050 A2	3000	50	50	1.50

Dimensions

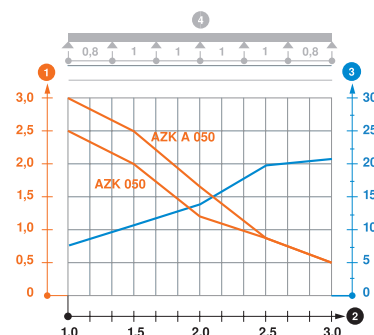


	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
AZK 050 A2	2.5	2	1.2	0.85	0.5

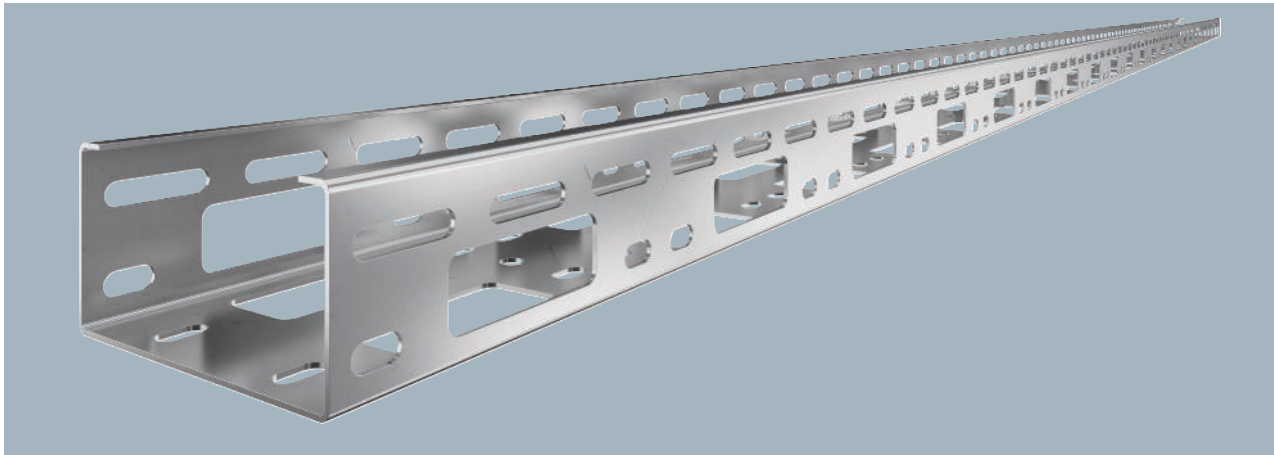
Load diagram, AZ small duct

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

Load



AZ small ducts



Type

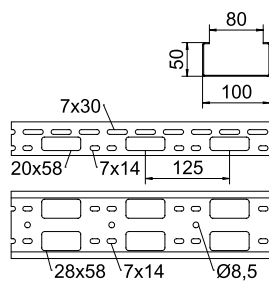
Pa
mk Weight
kg/100

Item no.

price/m

Type

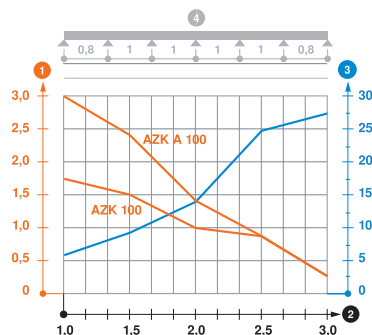
Type	Length mm	Width mm	Slab height mm	Thickness mm
AZK 100 A2	3000	100	50	1.50



	1.0 m	1.5 m	2.0 m	2.5 m	3.0 m
	kN/m	kN/m	kN/m	kN/m	kN/m
AZK 100 A2	1.7	1.5	1	0.8	0.25

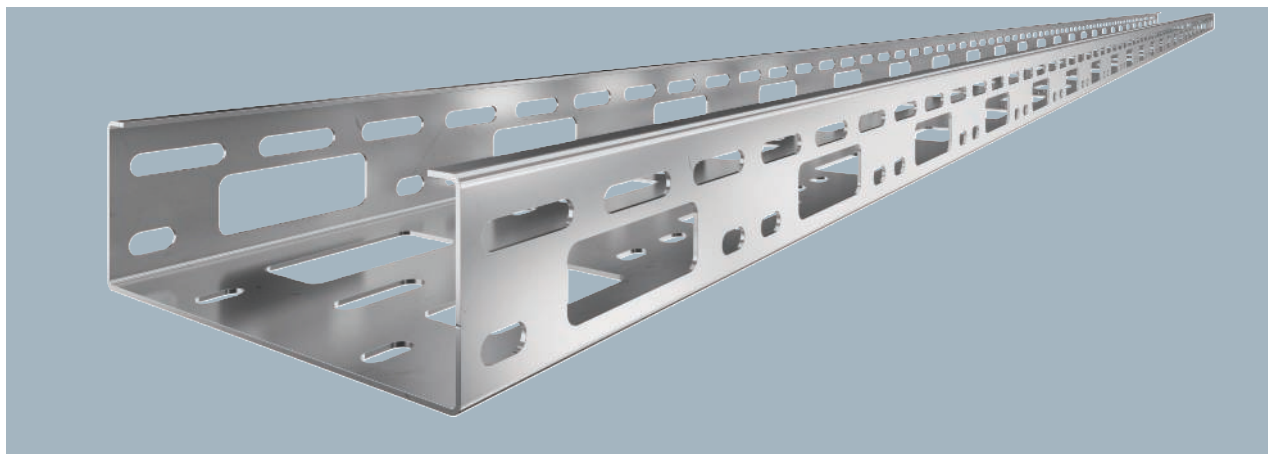
1 Permitted cable tray/ladder load in kN/m without man load

- 2 Support width in m
- 3 Rail bend in mm at permitted kN/m
- 4 Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



AZ small duct 150

VA 2B



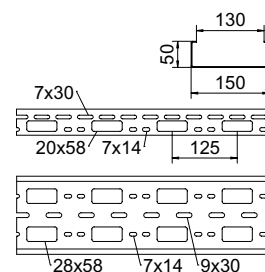
Type	Pack m	Weight kg/100 m	Item no.
AZK 150 A2	3	231.660	6075330

AZ channel with a side height of 50 mm.

price/m

Type	Length mm	Width mm	Side height mm	Metal thick- ness mm
AZK 150 A2	3000	150	50	1.50

Dimensions

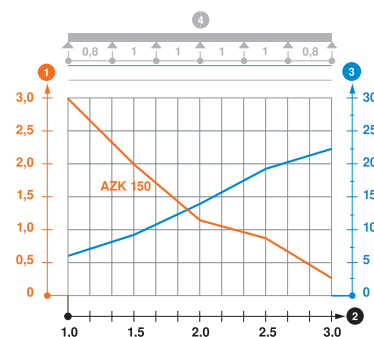


	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
AZK 150 A2	3	2	1.2	0.8	0.25

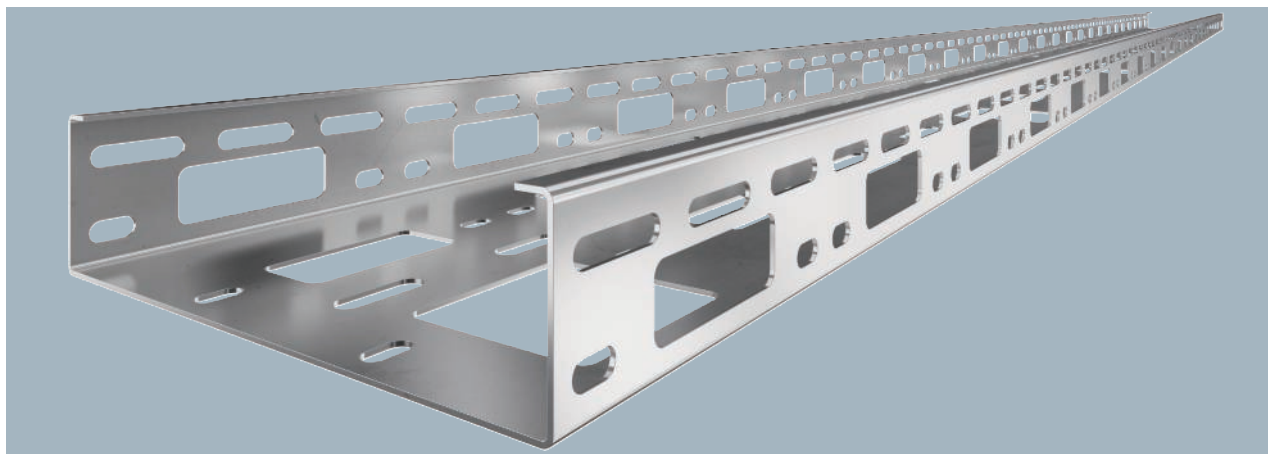
Load diagram, AZ small duct

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

Load



AZ small duct 200

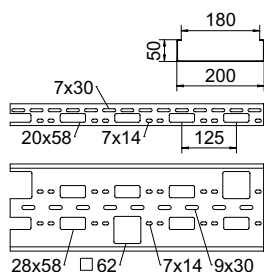


AZ channel with a side height of 50 mm.

Type	Pack m	Weight kg/100 m	Item no.
AZK 200 A2	3	280.340	6075355

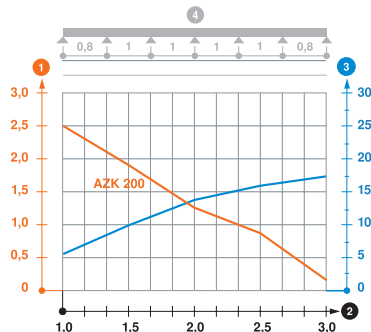
price/m

Dimensions



Type	Length mm	Width mm	Side height mm	Metal thick- ness mm
AZK 200 A2	3000	200	50	1.50

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
AZK 200 A2	2.5	1.9	1.3	0.8	0.3

Load diagram, AZ small duct

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

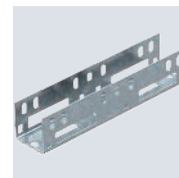
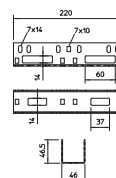
System accessories

Straight connector 50

Type	Pack Piece	Weight kg/100 pc.	Item no.
VF AZK 50 A2	25	27.400	6066629

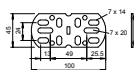
/pc.

Straight connector for connection of luminaire support channels and AZ channels.



Straight and angle connector 50

VA 2B



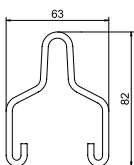
Type	Pack Piece	Weight kg/100 pc.	Item no.
VF AZK A2	10	7.746	6066569

/pc.

Straight and angle connector for connection of AZ channels.

Suspension bracket 50

VA 2B



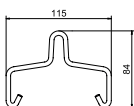
Type	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AHB 50 D4 A4	0.35	50	1.985	6066508

/100 pc.

Suspension bracket for chain or steel wire tensioning rope fastening of the luminaire support rail, type LTS 50, and the AZ small duct, type AZK 50.

Suspension bracket 100

VA 2B



Type	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AHB 100 D5 A4	0.6	50	4.060	6066514

/100 pc.

Suspension bracket for chain or steel wire tensioning rope fastening of the luminaire support rail, type LTS 100, and the AZ small duct, type AZK 100.

Cover with turn buckle

VA 2B



Type	Width mm	Length mm	Pack m	Weight kg/100 m	Item no.
AZDMD 50 A2	53	3000	30	57.200	6080197
AZDMD 100 A2	103	3000	3	99.933	6080294
AZDMD 150 A2	153	3000	3	139.200	6080870
AZDMD 200 A2	203	3000	3	178.470	6080895

price/m

Cover with turn buckle for AZ small duct.

Turn buckle 50

VA 2B



Type	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
AZDR 50 A2	50	10	2.800	6065309

/pc.

Turn buckle for installation in the cover for AZ small duct of width 50 mm at a later date.

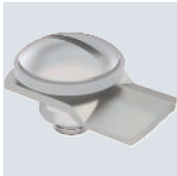
VA 2B

Turn buckle 100

Type	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
AZDR 100 A2	100	10	2.600	6065317

/pc.

Turn buckle for installation in the cover for AZ small duct and BKK system at a later date.



Directories

Directories

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Test marks

	American Bureau of Shipping, USA
	AENOR, Producto Certificado, Spain
	STOWARZYSZENIE ELEKTRYKÓW POLSKICH, Poland
	Lightning current-tested
	Lightning current-tested, Class H (100 kA)
	CEBEC, Belgium
	Canadian Standards Association, Canada
	DEMKO, Danmarks Elektriske Materielkontrol, Denmark
	Deutsches Institut für Bautechnik Berlin, Germany
	Det Norske Veritas
	ENEC Austria
	ATEX certificate for explosive areas
	ELEKTROTECHNICKÝ ZKUŠEBNÍ ÚSTAV, Czech Republic
	FIMKO, Finland
	Forschungs- und Materialprüfungsanstalt, Germany
	Russia, GOST The State Committee for Standards
	Russia, GOST The State Committee for Standards
	Test marks for technical resources, VDE Prüf- und Zertifizierungsinstitut Offenbach, Germany
	Halogen-free; without chlorine, fluorine and bromine
	INMETRO, Brazil
	KEMA-KEUR, Netherlands
	Indication of metric products
	MAGYAR ELEKTROTECHNIKAI ELLENŐRZŐ INTÉZET Budapest, Hungary
	NEMKO, Norway
	AFNOR Quality symbol of the French standardisation institute

	Underwriters Laboratories Inc., USA + CSA, Canada
	Österreichischer Verband für Elektrotechnik, Austria
	ISTITUTO ITALIANO DEL MARCHO DI QUALITÀ, Italy
	RINA 1861, Ship Classification, Certification and Services
	Underwriters Laboratories Inc., USA
	SEMKO An Inchcape Testing Services Company, Sweden
	Eidgenössisches Starkstrominspektorat, Switzerland
	South African Bureau of Standards
	Shock-tested, Bundesamt für Zivilschutz, Germany
	Sähkötarkastuskeskus Elinspektionscentralen Electrical Inspectorate, Finland
	Underwriters Laboratories Inc., USA
	Underwriters Laboratories Inc., USA
	Verband der Elektrotechnik, Elektronik, Informationstechnik e.V., Germany
	German Association of Electricians, tested safety
	5-year warranty

Pictogram explanation

Surfaces

	Strip galvanised
	Strip galvanised/plastic-coated
	Strip galvanised zinc/aluminium, double dip
	Bright
	Anodised
	Hot-dip galvanised
	Electrogalvanised
	Electrogalvanised/plastic-coated
	Electrogalvanised, yellow-chromated
	Electrogalvanised, yellow passivated
	Electrogalvanised, transparently passivated
	Primed
	Painted
	Welding primed
	Hot-dip galvanised
	Hot-dip galvanised 85 µm
	Copper-plated
	Nickel-plated
	Galvanised, Deltatone 500
	Galvanised, MAGNI 565
	Strip galvanised zinc/aluminium, double dip
	Zinc-aluminium coated, Galfan
	Zinc scale

Conformity symbol

	Communautés Européennes, EC declaration of conformity according to EC directives
	RoHS-conformant

Quality marks

	Halogen-free; without chlorine, fluorine and bromine
	Flame resistant 650 °C
	Flame resistant 750 °C
	Flame resistant 960 °C
	UV-resistant

Specific product symbols

	Diameter 60 mm
	Diameter 68 mm
	Transition from LPZ 2 to LPZ 3
	Acoustic signalling

Applications

	Remote signalling
	Acoustic signalling
	Integrated Service Digital Network, ISDN applications
	Digital Subscriber Line, DSL applications
	Analogue telecommunication
	Category 5 TwisterPair
	Channel Performance to American EIA/TIA standard
	Measuring, controlling and regulating systems
	TV applications
	SAT-TV applications
	MultiBase base
	LifeControl
	Intrinsically safe protection device for potentially explosive areas
	Channel Performance to ISO / IEC 11801
	Power over Ethernet
	230/400 V system
	Protection rating IP 54
	Protection rating IP 65

Lightning protection classes

	Protection device to DIN EN 61643-11 or IEC 61643-11
	Combination protection device made of type 1 and type 2
	Protection device to DIN EN 61643-11 or IEC 61643-11
	Protection device to DIN EN 61643-11 or IEC 61643-11

Lightning protection classes

	Protection device to DIN EN 61643-11 or IEC 61643-11
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Lightning protection zone

	Transition from LPZ 0 to LPZ 1
	Transition from LPZ 0 to LPZ 2
	Transition from LPZ 0 to LPZ 3
	Transition from LPZ 1 to LPZ 2
	Transition from LPZ 1 to LPZ 3
	Transition from LPZ 2 to LPZ 3

BSS maintenance of electrical function installation

	Fire-tested systems
	Escape route ceiling mounting with pressure clip
	OBO Grip, wall routing type
	OBO Grip, ceiling routing type
	Pressure clip for maintenance of electrical function, ceiling mounting

BSS anchor

	Fire protection anchor
	Fire protection bolt tie

BSS test marks/material class

	Maintenance of electrical function class E30
	Maintenance of electrical function class E90

Clamp clip base shapes

	Clamp clip for C profile rail, slot width 11–12 mm
	Clamp clip for C profile rail, slot width 16–17 mm
	Clamp clip for C profile rail, slot width 18–22 mm

Diameter

	Diameter 60 mm
	Diameter 68 mm
	Diameter 70 mm
	Diameter 74 mm

Entries

	4 cable entries
	6 cable entries

Entries

	7 cable entries
	8 cable entries
	9 cable entries
	10 cable entries
	12 cable entries
	10 cable entries ECO
	12 cable entries ECO
	14 cable entries ECO
	16 cable entries
	18 cable entries ECO
	24 cable entries

Gland thread

	Thread metric
	Thread Pg

Entry size

	M20 entry
	M25 entry
	M32 entry
	M40 entry

KTS side heights

	Cable tray, side height 35 mm
	Cable tray, side height 60 mm
	Cable tray, side height 85 mm
	Mesh cable tray, slant height 35 mm
	Mesh cable tray, slant height 55 mm

Materials

	Flat steel
	Angular steel
	U steel
	Round material

Nominal cross-section

	Nominal cross-section 1.5 mm²
	Nominal cross-section 1.5–2.5 mm²
	Nominal cross-section 2.5 mm²

Pictogram explanation

Nominal cross-section

	Nominal cross-section 2.5–4 mm²
	Nominal cross-section 4 mm²
	Nominal cross-section 4–6 mm²
	Nominal cross-section 6 mm²
	Nominal cross-section 10 mm²
	Nominal cross-section 16 mm²

Nominal voltage

	Nominal voltage 400 V
	Nominal voltage 500 V
	Nominal voltage 660 V

Polarity

	3-pole
	5-pole
	7-pole
	8-pole
	10-pole
	12-pole

Slot widths

	Slot width 7.5 mm
	Slot width 11 mm
	Slot width 11–12 mm
	Slot width 12 mm
	Slot width 15 mm
	Slot width 16 mm
	Slot width 16.5 mm
	Slot width 16–17 mm
	Slot width 17 mm
	Slot width 18 mm
	Slot width 22 mm
	Slot width 35 mm

Screw heads

	Philips screw
	Torx screw
	Phillips screw

Screw heads

	Pozidrive
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Firing devices

	Bolt-firing tool
	Nail device

Protection rating

	Protection rating IP 20
	Protection rating IP 30
	Protection rating IP 31
	Protection rating IP 44
	Protection rating IP 54
	Protection rating IP 55
	Protection rating IP 65
	Protection rating IP 66
	Protection rating IP 67
	Protection rating IP 68

Metals

	Aluminium
	Aluminium/steel
	Stainless steel, rustproof
	Stainless steel, rustproof
	Stainless steel, rustproof
	Copper
	Brass
	Steel
	Malleable iron
	Die-cast zinc

Plastics

	Acrylonitrile butadiene styrene
	Duroplast, Aminoplast, type 131.5
	Duroplast, melamine resin, type 150
	Ethylene vinyl acetate
	Fibre-proof material DIN 28091
	Fibre-glass-reinforced plastic
	Rubber mixture

Plastics

NBR	Nitrile rubber
PETR	Petrolatum
PA	Polyamide
PA/GF	Polyamide, fibre-glass reinforced
PBPT	Polybutylene terephthalate
PC	Polycarbonate
PE	Polyethylene
PP	Polypropylene
PP/GF	Polypropylene, fibre-glass reinforced
PS	Polystyrene
PVC	Polyvinylchloride
ZELL PE	Cellular polyethylene

Numeric directory

GTIN	Item no.	Page	GTIN	Item no.	Page	GTIN	Item no.	Page	GTIN	Item no.	Page	GTIN	Item no.	Page
5006619	/100 pc. 1008633	19	6489435	1147126	68	5668220	1159728	190	6609468	1362644	15	5023456	3141310	29
5006671	1008641	19	6489442	1147130	68	5668268	1159734	190	6609475	1362646	15	5023579	3141312	29
5006732	1008668	19	6489459	1147134	68	5668275	1159740	190	6609482	1362648	15	5594437	3141314	29
5006855	1008684	19	6489466	1147138	68	5668282	1159746	190	6600250	1362904	18	6096930	3141316	29
5006978	1008706	19	6489657	1147172	69	5668299	1159752	190	6600267	1362906	18	6096886	3141327	29
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5912132	1018679	19	6489909	1147230	70				6600335	1362922	18	6098392	3141484	29
5912170	1018693	19	6489916	1147234	70	5066071	1161822	189	6600311	1362926	18	6098408	3141492	29
5912231	1018705	19	6489923	1147238	70	5066132	1161830	189	6600328	1362930	18	6098439	3141494	29
5906476	1018717	19	6489992	1147336	70	5066194	1161849	189	6600359	1362934	18	6098446	3141502	29
5906506	1018729	19	6490004	1147340	70	5066255	1161857	189	6600366	1362938	18	6098453	3141504	29
			6490011	1147344	70	5066316	1161865	189	6600887	1362976	17	6098507	3141514	29
			6490028	1147348	70	5066378	1161873	189	6608874	1362978	17			
5627074	price/100 1104498	66				5066439	1161881	189	6608881	1362980	17			
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			6488988	1148088	67	5074656	1178512	190	6608928	1362988	17	5940401	3156020	77
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6470747	1119700	67	6489589	1148164	68	5075011	1178571	190		/100 pc.		5940494	3156027	77
5047650	1119702	67	6489596	1148168	68	5075073	1178598	190	5901792	1404168	23	5940500	3156028	77
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5905585	1121963	68	6489824	1148280	69	5079576	1185462	191	6342143	1486284	62	5940661	3156037	77
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5907114	1122476	69	6490301	1148410	71	5079699	1185489	191	6342211	1486292	62	5849513	3156042	77
6471225	1122925	69	6490318	1148414	71	5079750	1185497	191	6342228	1486294	62	5849582	3156044	77
5697558	1122928	69	6490325	1148418	71	6137169	1185706	189		price/100		5940739	3156054	77
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5697602	1122931	69	6490363	1148426	71				5923657	2046721	20	5940876	3156067	77
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5698265	1122988	69	6490448	1148476	71	5514039	1197096	192	5923701	2046726	20			
5698272	1122990	69	6490486	1148480	71	5514091	1197134	192	5923786	2046750	20	5261018	3168905	84
5698289	1122992	69	6490493	1148484	71	5514152	1197177	192	5923886	2046751	20			
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5805144	1124725	72	5912330	1158239	191	6599783	1362464	16	5924210	2046770	21	5909361	3400185	79
5805175	1124727	72	5912347	1158243	191	6599790	1362467	16	5924258	2046771	21			
5805182	1124729	73	5912354	1158247	191	6599806	1362469	16	5924272	2046772	21	5300496	3402304	71
5805199	1124731	73	5912361	1158251	191	6599813	1362472	16	5924296	2046773	21	5909415	3402306	80
5805205	1124733	73				6599820	1362474	16	5924302	2046774	21	5909422	3402308	80
5805212	1124735	73	5063612	1159518	188	6599837	1362478	16	5924333	2046775	21	5300557	3402312	77
5805229	1124737	74	5063674	1159526	188	6599844	1362482	16	5924340	2046776	21	5909477	3402314	80
5805236	1124739	74	5063735	1159534	188	6599851	1362486	16				5909484	3402316	80
5805243	1124741	75	5063797	1159542										

Numeric directory

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	/100 pc.			price/m						/pc.			price/m	
5944454	3403163	78	6102310	6001085	118	6804306	6016425	134	5880806	6041884	99	5832263	6059420	97
5946298	3403175	78	5431046	6001087	119	5863021	6016445	134	5880813	6041886	99	5832300	6059422	97
5946304	3403177	78	5166016	6001088	119	6013098	6016529	141	5880820	6041888	99	5832317	6059424	97
			5166023	6001090	119	6593880	6016574	146	5880837	6041890	99	5832324	6059426	97
5301936	3404331	78	5166061	6001091	119	6013210	6016642	131	5882176	6041960	99	5832355	6059428	97
5301998	3404358	78	5166078	6001093	119	6120079	6016648	131	5882183	6041962	99	5830689	6059722	90
6095506	3404372	78	5166085	6001095	119	5980698	6016665	139	5882190	6041964	99	5830702	6059726	90
6095513	3404377	78	5166122	6001097	119	5694069	6016676	132	5882206	6041966	99	5830740	6059728	90
6095520	3404381	78	5166139	6001099	119	6013333	6016731	132	5882213	6041968	99	5830757	6059730	90
6095537	3404385	78	6687190	6001860	133	6120253	6016764	132	5882220	6041970	99	5830764	6059732	90
			6687206	6001862	133	6013456	6016839	132				5830795	6059734	90
			6687213	6001864	133	6120437	6016859	132		price/m				
5909651	3405062	80	6687848	6001866	133				5706083	6047613	88	5694441	6062025	91
5909712	3405089	80	6687220	6001868	133	6013579	6017045	120	5706113	6047614	89	5694472	6062028	91
5909750	3405111	80	6687237	6001870	133	6120499	6017092	120	5706144	6047640	88	5694502	6062052	140
5909774	3405127	80	6687855	6001872	133	6295630	6017134	160	5706175	6047641	89	5694557	6062084	90
			6687862	6001874	133	6561261	6017164	134	5706182	6047656	88	5694564	6062086	90
6709557	3492003	83				6014354	6018408	42	5706199	6047657	89	5694601	6062173	122
6709564	3492008	83		price/m		6803873	6018412	42	5706205	6047691	88	5778431	6062255	97
6709595	3492012	83	5149620	6002451	121				5706236	6047692	89			
			5149637	6002457	121				5706243	6047721	88		/100 pc.	
	/100 pc.		5149644	6002460	121	6082773	6018509	38	5706250	6047722	89	5694618	6062280	91
6411825	3498322	83	5149675	6002463	121	6803453	6018512	37	5706267	6047737	88	5694625	6062282	120
6411849	3498328	83	5149682	6002466	121				5706298	6047738	89	5694656	6062284	154
6411863	3498336	83	5771586	6002469	121	5706007	6018517	33						
6411900	3498352	83	5874904	6002475	122	5618454	6018520	33	6219605	6051192	164	6619054	6065016	101
6411931	3498392	82	5874928	6002477	122				6219636	6051194	164		/pc.	
6429578	3498393	82	5874959	6002479	122	5403067	6019583	59	6219643	6051196	164	6064632	6065309	200
6411955	3498398	82	5874966	6002481	122	6014651	6019587	59	6219650	6051198	164	6064694	6065317	201
6429585	3498399	82	5874980	6002483	122	6014774	6019668	185	6219667	6051200	164	6046195	6065475	165
5940128	3498516	83	5875017	6002485	122	6046782	6019710	60	6219698	6051210	164	6055913	6065477	181
5940142	3498556	83							6219704	6051212	164			
5940180	3498666	83	6622047	6003623	145	5992288	6040520	93	6219711	6051214	164		/100 pc.	
			6622054	6003625	145	5992301	6040524	93	6219728	6051216	164	6257942	6066508	200
5901174	5300120	22	6622061	6003627	145	5992318	6040526	93	6219759	6051218	164	6257973	6066514	200
5901181	5300124	22	6622078	6003629	145	5992325	6040528	93					/pc.	
5901198	5300127	22	6622085	6003631	145	5992332	6040530	93	6692347	6052810	100	6065059	6066569	200
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5901075	5301174	22	6049561	6003873	64	5992394	6040548	93	6032235	6052837	100	6955459	6067675	92
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5901372	5302182	23	5686507	6005559	130	6041107	6040812	102	6059171	6052975	101	5889595	6068962	91
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5900696	5303185	22	5815846	6005635	125	6041275	6040832	102	5866190	6052986	101	5889663	6068984	91
5900702	5303188	22	5815853	6005637	127				5021124	6052991	100	5889670	6068986	91
5900719	5303191	22	5815860	6005642	129	5881957	6041180	93	5021155	6052993	100	5889687	6068988	91
5900726	5303194	22	5815877	6005645	131	5878322	6041184	93	5021162	6052994	100	5889717	6068990	91
5900764	5303197	22				5878339	6041186	93	5021216	6052995	100	5889724	6068992	91
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6622115	6000913	144	6952274	6015421	139	5878810	6041275	94	6044887	6056755	105	6069255	6075304	197
6622139	6000917	144	6952335	6015422	139	5878827	6041277	94	6050161	6056757	105	5811145	6075330	198
6622146														

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GTIN	Item no.	Page	GTIN	Item no.	Page	GTIN	Item no.	Page	GTIN	Item no.	Page	GTIN	Item no.	Page
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5403081	6091343	176	6165193	6221386	154	6802449	6227361	180	5020981	6341053	37	5395355	6342530	31
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	price/m		6443703	6225082	155		price/m		6183319	6341059	37	5706021	6348877	34
5683506	6098161	168	6443710	6225084	155	5751311	6227364	180	6237135	6341063	37	5018360	6348925	38
5683513	6098165	168	6443727	6225086	155	6802500	6227365	180	6183371	6341065	37	5018452	6348927	38
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5683568	6098173	168	6443741	6225090	155	5751328	6227366	180	6081554	6341101	37	6191536	6349196	43
5683575	6098177	168	6443758	6225102	155	6802531	6227367	180	6081615	6341105	37	6191659	6349277	43
	/pc.		6443765	6225104	155		price/m		6081677	6341109	37	6403189	6349279	43
5242536	6098483	170	6443772	6225106	155	5751359	6227368	180	6081738	6341113	37			
	price/m		6443789	6225108	155	6803590	6227369	180	6081790	6341117	37	6039593	6355834	62
			6443796	6225110	155		/pc.		6081851	6341121	37	6045181	6355835	62
5683582	6098571	170	6444199	6225250	155	5684107	6227724	171	6081912	6341125	37	6039548	6355836	63
5683599	6098573	170	6444205	6225252	155	5910077	6227730	178	6081974	6341129	37	6045211	6355837	63
5683605	6098575	170	6444212	6225254	155	5767923	6227836	171	6082094	6341133	37			
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5683629	6098579	170	6444236	6225258	155		/pc.		6082216	6341141	37	6859078	6357524	28
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6431991	6207208	153	6567454	6225890	155	5037293	6311206	174	6803736	6341758	42	5925248	6406205	76
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7253912	6424410	49	6804245	7075679	95	5866664	7134992	112			
7253967	6424412	49	6804283	7075681	95	5866671	7134994	112			
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7253585	6424434	46	6986361	7082479	98	6821297	7136133	108			
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7253677	6424442	47	6232093	7084048	100	5866701	7136143	108			
7253707	6424444	47	6232154	7084064	100	6256877	7136242	108			
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