

KTS Catalogue 2010/2011



Cable support systems

THINK CONNECTED.

Welcome to Customer Service

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Use the direct line to OBO Customer Service! On the Service Hotline +49 (0)2373 89-1500, we are available every day from 7.30 a.m. to 5.00 p.m. for any questions about the OBO product range for electrical installations. The newly structured OBO Customer Services can offer you the full works:

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- Knowledgeable advice on special application topics
- Quick, direct access to all the technical data of the OBO products – we also want to provide the best in customer relations!

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OBO KTS seminars: First-hand knowledge

With a comprehensive range of training courses and seminars on cable support systems, OBO is able to provide users with first-hand support. Alongside the basic theoretical principles, the programme also deals with practical implementation in everyday applications. Special calculation and application examples round off the comprehensive programme of knowledge transfer.

Invitations to tender, product information and datasheets

We can make life easier for you, with our comprehensive selection of materials designed for practical applications, which provide you with effective support with the planning and calculation of a project. These include:

- Invitations to tender
- Product information
- Information sheets
- Datasheets

These documents are continually updated and can be downloaded at no charge at any time from the Internet download area at www.obo.de.

Invitations to tender on the Internet at www.ausschreiben.de

More than 10,000 entries from the KTS, BSS, TBS, LFS, EGS and UFS ranges can be called up free of charge. Regular updates and extensions mean that you always have a comprehensive overview of the OBO products. All the current file formats – PDF, DOC, GAEB, HTML, TEXT, XML, ÖNORM – are available.

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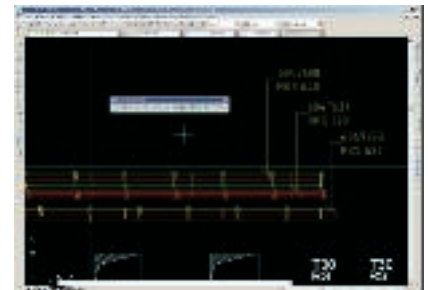
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OBO Construct KTS: Project planning, drawing, generation

Item No.	Description	Type	Unit	Design	Material	Quantity	Unit Price	Total Price
14.10.1	Support for cable tray	Support	mm	1000	1000	1000	1000	1000
14.10.2	Support for cable tray	Support	mm	1000	1000	1000	1000	1000
14.10.3	Support for cable tray	Support	mm	1000	1000	1000	1000	1000
14.10.4	Support for cable tray	Support	mm	1000	1000	1000	1000	1000
14.10.5	Support for cable tray	Support	mm	1000	1000	1000	1000	1000
14.10.6	Support for cable tray	Support	mm	1000	1000	1000	1000	1000
14.10.7	Support for cable tray	Support	mm	1000	1000	1000	1000	1000
14.10.8	Support for cable tray	Support	mm	1000	1000	1000	1000	1000
14.10.9	Support for cable tray	Support	mm	1000	1000	1000	1000	1000
14.10.10	Support for cable tray	Support	mm	1000	1000	1000	1000	1000



With the AutoCAD-based OBO Construct KTS software, OBO can offer planners, installation engineers and architects completely new options for the planning of cable support systems.

Besides the targeted assistance in the selection of the optimal cable support system, OBO Construct KTS provides information for the planning of cable route projects using the integrated Route Editor, and in the integration of function maintenance systems according to DIN 4102, Part 12.

A detailed parts list, created according to the user's specifications, provides a clear overview of the material quantities required and their gross prices.

Software highlights:

- Insertion of the cable routes (individually or using the program)
- Calculation of the usable cross-section with the option of specifying any number of cable assignments manually
- Automatic calculation of the load of standard support structures
- Menu-controlled KTS article selection integrated into the program

- Generation of detailed parts lists and transfer to a price enquiry in Microsoft Excel
- Integrated function maintenance systems
- Automatic labelling function
- Simple insertion and editing of fittings
- Language variants: German, English, French, Czech. This selection is continually being expanded.



Besides the OBO Construct KTS planning software, on the website, you can download the useful, independent Cable Filling tool to enable you to select the optimum cable support system and also calculate the cable routing and the filling factor.

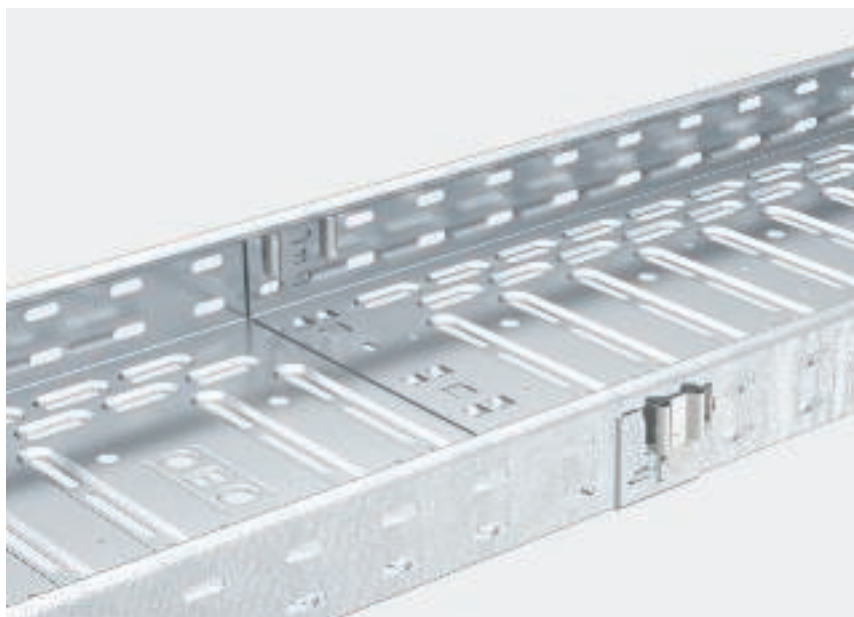
Technical note:

The OBO Construct KTS software can either be ordered directly from OBO or downloaded from the website at www.obo.de. Please note: AutoCAD (version from 2006 to 2010) is required (full version or LT version). The software can be used in full for test purposes for a period of 14 days. When the testing period has elapsed, the software is automatically deactivated. You will need to register if you wish to continue using the program. Registration costs 80 euros. Microsoft Windows and Excel are registered trademarks of the Microsoft Corporation, USA. AutoCAD is a registered trademark of Auto-

desk Incorporation, USA.



Standards, regulations and tests



Standardised work offers protection

OBO offers cable support systems made by professionals for professionals: The technical properties are guaranteed by DIN EN 61537 (follow-up to DIN VDE 0639). It describes all the relevant parameters – from the area of application, through test conditions, up to corrosion resistance and temperature classification. As a competent manufacturer of cable support systems, OBO subjects itself to these requirements on a daily basis. The tests described below guarantee the use of systems which fulfil the requirements of the systems.

Suitable protective clothing is required for safe handling during transport and processing.

CE-conformant

All products in this catalogue are CE-compliant in accordance with the appropriate EC directives. This also applies to standard parts such as bolts, washers and nuts that are components of various product systems. The appropriate EC declaration of conformity certifies agreement with the named directives or standards, but does

not guarantee properties. The safety instructions in the supplied product information and the general safety regulations must be complied with during installation and use.

Testing, equipotential bonding/protective conductor

Cable support systems must possess sufficient conductivity. Only this can ensure that the equipotential bonding and the connection to the earth potential is sufficient. A reduction in conductivity is often the result of contact resistances at joints.

To keep these contact resistances to a minimum on the OBO cable support systems, during the development process we placed great emphasis on a stable connection, which is free of contact resistance. Of course, the developed systems were tested in the BET laboratory. In this catalogue, the tested articles are marked with the test marks shown below. You can request the appropriate test reports at any time via our hotline.

Inclusion of the protective measures



Load tests for cable support systems

All the OBO articles and systems are subjected to practical load testing. The basic principles for the tests of OBO cable support systems are included in DIN EN 61537 and DIN VDE 0639. After the load test, the maximum load capacity can be determined for each component, depending on the support distances and specific article parameters, such as component dimensions. This is all shown in a chart, included with each component.

You can find additional information on the load tests for cable trays, brackets and suspended supports in this catalogue. The values given do not take resistance against environmental forces such as snow, wind and other outside influences into account.



Definition of electromagnetic compatibility (EMC)



In recent years, the use of electronic circuits has increased continually. Whether in industrial systems, medicine, households, in telecommunications systems or electrical building installations – everywhere, we see powerful electric equipment and systems, which switch ever greater currents, achieve greater radio ranges and transport ever more energy in smaller spaces.

However, the use of state-of-the-art technology means that the complexity of applications also increases. The consequence of this is that ever more opposing influences (electromagnetic interference) can occur from system parts and cables, causing damage and economic losses.

Here, we talk of electromagnetic compatibility.

Electromagnetic compatibility (EMC) is the ability of an electrical

unit to function satisfactorily in its electromagnetic environment, without inappropriately influencing this environment, to which other units also belong (VDE 0870-1). In terms of standardisation, electromagnetic compatibility is dealt with by the EMC directive 2004/108/EC. This means that electrical resources emit electromagnetic interferences (emission), which are picked up by other devices or units (immission) which act as receivers (interference sink). This means that the function of an interference sink can be severely reduced, meaning, in the worst case, total failure and economic losses. The interferences can spread along cables or in the form of electromagnetic waves.

Path of faults

Fault source (transmitting emissions)	Coupling of interference variables (spreading of interference)	Fault sink (receiving emissions)
For example - Mobile telephones - Switching components - Ignition systems - Frequency converters - Lighting strike - Welding devices	- Galvanic - Inductive - Capacitive - Electromagnetic	- Process computer - Radio receiver systems - Controllers - Converters - Measuring units



Guarantee of EMC



Guarantee of EMC

A systematic planning process is necessary to guarantee EMC. The interference sources must be identified and quantified. The coupling describes the spread of the interference from the interference source up to the influenced device, the interference sink. The task of EMC planning is to ensure the compatibility at the source, coupling path and sink using suitable measures. During their daily work, planners and installation engineers are confronted with this subject on an increasingly regular basis. This means that EMC is a basic factor to be taken into consideration during the planning of installations and cabling systems. Due to the high complexity of electromagnetic compatibility, the problems of EMC must be analysed and solved using simplifying hypotheses and models as well as experiments and measurements.

Cable support systems and their contribution to EMC

Cable support systems can make an important contribution to the improvement of EMC. They are passive and can thus make a safe, long-lasting contribution to EMC through the fact that cables are run within cable support systems or are shielded by them. Routing cables inside cable support systems greatly reduces the galvanic

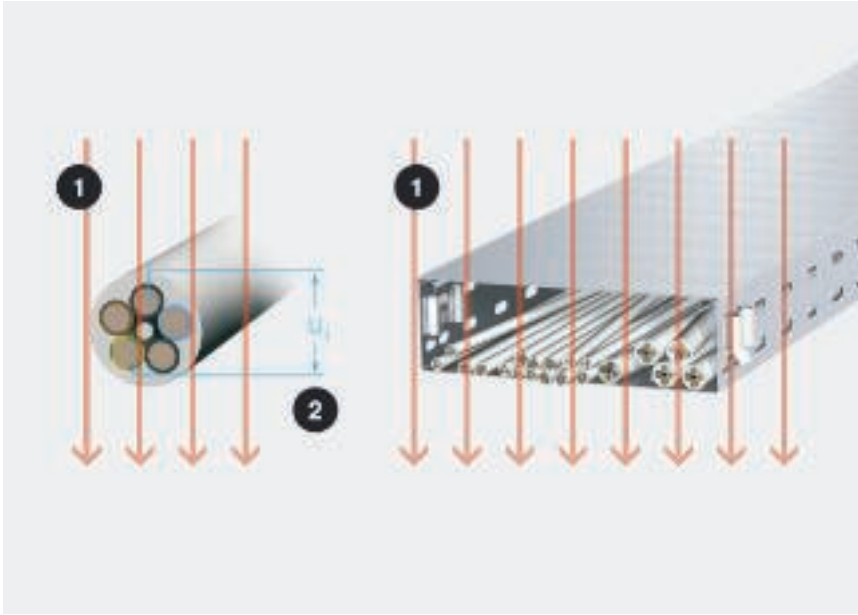
decoupling and coupling due to electrical and magnetic fields in the cables. Thus cable support systems can make a contribution to the reduction of coupling from the source to the sink. The shielding action of cable support systems can be quantified by the coupling resistance and the shield attenuation. This gives the planner important engineering parameters for cable support systems for the EMC engineering.

Lightning discharge

From the analysis of the effectiveness of EMC in buildings (EN 62305-4), we know that lightning discharge is one of the greatest sources of interference to be expected. This causes a direct current feed into the entire equipotential bonding system in the building and/or to magnetic decoupling of interference currents in electrical cables. With regard to these couplings, cable support systems can offer an effective contribution to the reduction of interference voltages.



Magnetic shield insulation of cable support systems



The magnetic field (H) of strength 3 kA/m in a defined experimental setup: without cable support system on the left, with cable support system on the right. 1 = Field H, 2 = V

The magnetic shield insulation of cable support systems is the ratio in decibels (dB) of an induced voltage into an unprotected cable to the induced voltage into the same cable, when this is in a cable support system.

Experimental structure to determine the magnetic shield insulation of cable support systems:

An unshielded cable (NYM-J 5x6 mm²) is subjected to an 8/20 magnetic field with a strength of 3 kA/m. Here, the induced voltage V1 is measured in the unshielded cable. The same cable is then positioned in the centre of a cable support system (once with a

cover, once without) and subjected to the same magnetic field of 3 kA/m. Here, the induced voltage V2 is measured in the unshielded cable.

The magnetic shield insulation is calculated from the measured values according to the formula:

$$\alpha_s = 20 \log (V1/V2) \text{ dB}$$

Experiment result:

The magnetic shield effect α_s of a cable support system could be clearly proved by the experiments and the simulation with an FEM program.

The best result of around 50 dB

was achieved with cable support systems (cable trays) with covers. Please refer to the information for the individual products to find the average measured values.

Note:

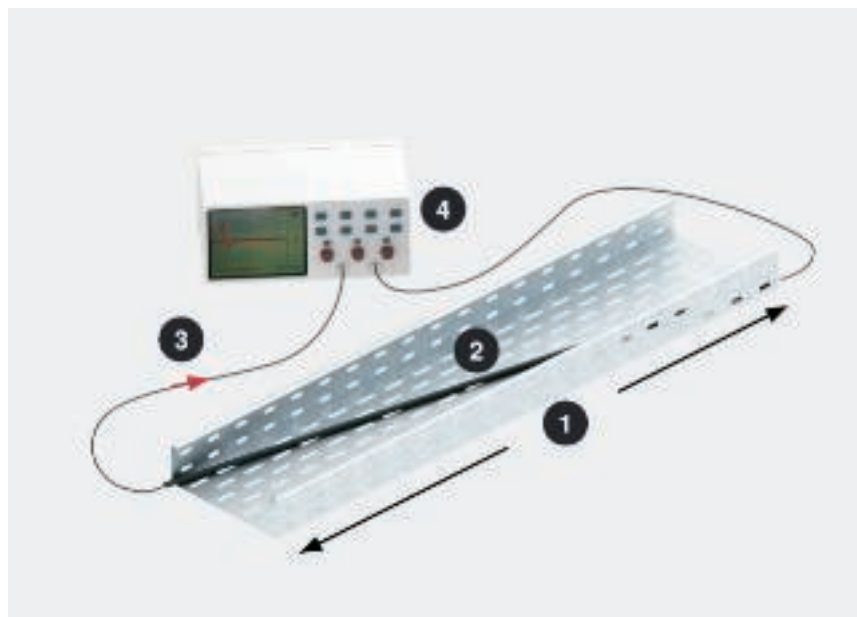
The shield insulation against electrical fields is almost perfect, like a Faraday cage.

Magnetic shield insulation 8/20 dB

Type, cable tray/cable ladder	Without cover	With cover
RKSM 630 FS	20	50
MKS 630 FS	20	50
MKS 630 FT	20	50
MKSU 630 FS	20	50
MKSU 630 FT	20	50
MKSU 630 VA	20	50
GRM 55/300 FS	15	25
LG 630 NS FT	10	15



Transfer impedance of cable support systems



$$Z'_T = \frac{U_{Stör}}{I_{Stör} \cdot L}$$

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

$V_{interference}$: Interference voltage measured in cable
 $I_{interference}$: Interference current, fed into the shield from outside (KTS)
 L : Length of the cable support system

Transfer impedance (coupling resistance) of cable support systems

The transfer impedance of a cable support system is the ratio of the measured voltage $V_{interference}$, measured in the lengthwise direction within the cable support system, to the coupled current $I_{interference}$.

The transfer impedance is determined in the same way as with the measurement of the electrical conductivity properties in Chapter 11.1. (DIN EN 61537).

If there is a lightning strike in a building, partial currents will flow through the entire equipotential bonding system.

Installed cables are best run within a cable support system. Installed

cable support systems are always included in the equipotential bonding system. In so doing, the partial current flows via the cable support system. A very small component can therefore still flow along the cables laid within the cable support system. This component is determined by the transfer impedance of the cable support system.

The following applies for the transfer impedance: $Z_T = V_{interference} / (I_{interference} \times L)$ [mΩ/m]

The values given are based on measurements, in which a pulse current of the wave shape 8/20 was passed through a defined length of a cable support system.

Experiment result:

The effect of the cable support against galvanic coupling was clearly proved by the experiments! The best result was achieved with cable support systems (cable trays) with covers. Please refer to the information for the individual products to find the average measured values.

Transfer impedance 8/20 mΩ/m

Type, cable tray/cable ladder	Without cover	With cover
MKS 630 FS	1.14	0.71
MKS 630 FT	1.14	0.71
MKSU 630 FS	0.44	0.09
MKSU 630 FT	0.44	0.09
GRM 55/300 FS	6.17	5.5



Surface testing and corrosion categories



Surface testing/salt spray mist test

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



Surface testing and corrosion categories

Corrosion categories to DIN EN ISO 12944

Corrosion category	Typical environment, inside	Typical environment, outside	Corrosion load	Average zinc loss
C 1	Heated buildings with neutral atmospheres, e.g. offices, shops, schools, hotels	-	Insignificant	<0.1 µm/a
C 2	Unheated buildings in which condensation can occur, e.g. warehouse, sports' halls	Atmosphere with low level of impurities – often rural areas	Low	0.1 to 0.7 µm/a
C 3	Production facilities with a high level of humidity and some air impurities, e.g. plants for food production, laundries, breweries, dairies	City and industrial atmosphere, considerable impurities through sulphur dioxide, coastal areas with low salt load	Medium	0.7 to 2.1 µm/a
C 4	Chemical plants, swimming pools, boatsheds over seawater	Industrial areas and coastal areas with low salt load	Strong	2.1 to 4.2 µm/a
C 5-I	Buildings or areas with almost constant condensation and with heavy impurities	Industrial areas with high levels of humidity and aggressive atmosphere	Very strong (industry)	4.2 to 8.4 µm/a
C 5-M	Buildings or areas with almost continuous condensation and with high levels of impurities	Coastal or offshore areas with salt load	Very strong (sea)	> 4.2 to 8.4 µm/a

Classification of corrosion resistance (from the draft of DIN EN 61537)

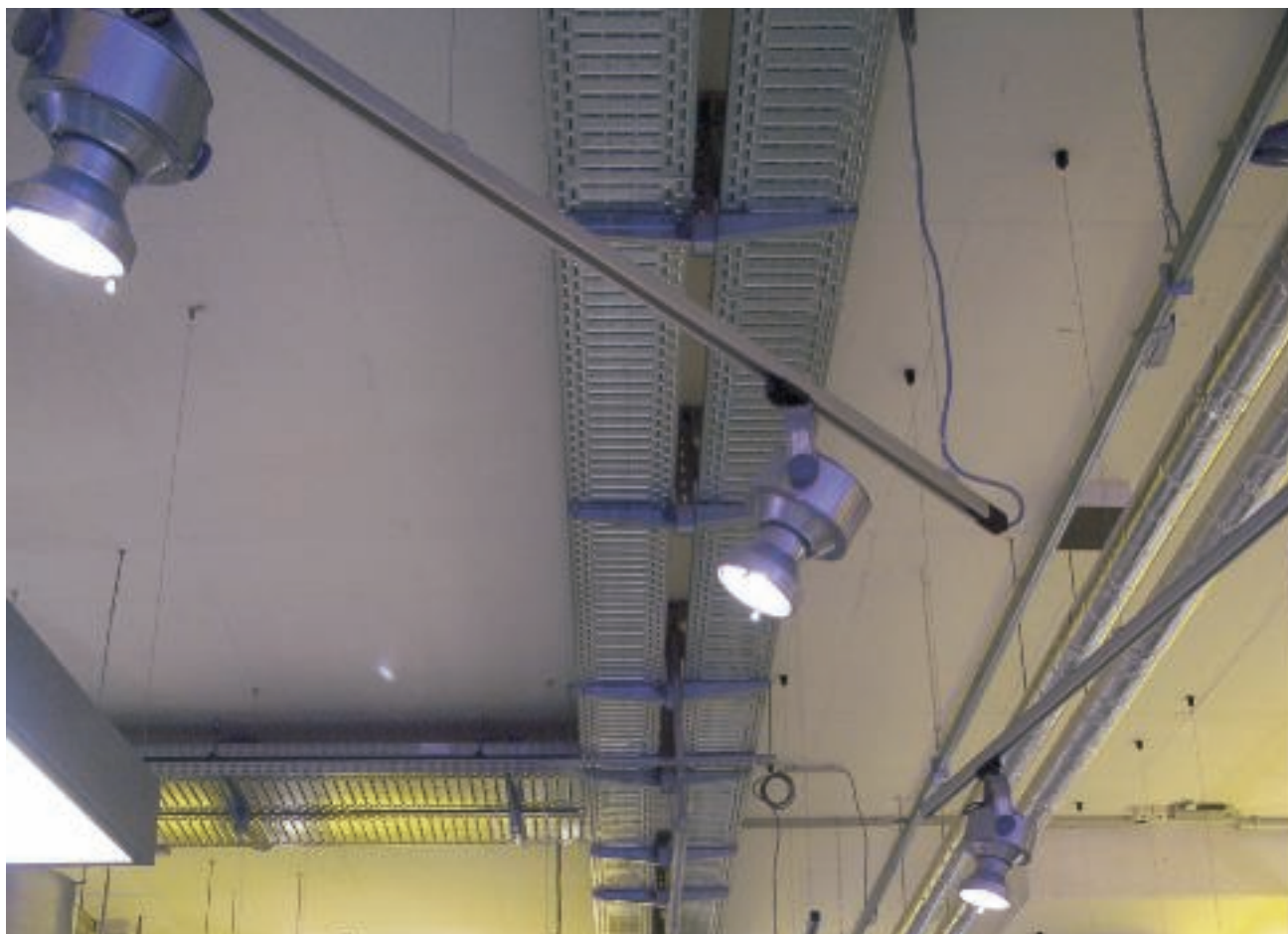
Class	Reference material and surface treatment
0*	None
1	Electroplated to a minimum thickness of 5 µm
2	Electroplated to a minimum thickness of 12 µm
3	Pre-galvanised to 275 degrees according to EN 10327 and EN 10326
4	Pre-galvanised to 350 degrees according to EN 10327 and EN 10326
5	Galvanised to a zinc coating thickness of (minimum) 45 µm according to ISO 1461
6	Galvanised to a zinc coating thickness of (minimum) 55 µm according to ISO 1461
7	Galvanised to a zinc coating thickness of (minimum) 70 µm according to ISO 1461
8	Galvanised to a zinc coating thickness of (minimum) 85 µm according to ISO 1461 (usually high-alloy silicon steel)
9A	Rustproof steel, manufactured according to ASTM: A 240/A 240M – 95 a designation S30403 or EN 10088 degree 1-4301 without finishing **
9B	Rustproof steel, manufactured according to ASTM: A 240/A 240M – 95 a designation S31603 or EN 10088 degree 1-4301 without finishing
9C	Rustproof steel, manufactured according to ASTM: A 240/A 240M – 95 a designation S30403 or EN 10088 degree 1-4301 with finishing **
9D	Rustproof steel, manufactured according to ASTM: A 240/A 240M – 95 a designation S31603 or EN 10088 degree 1-4404 with finishing **

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

** The end treatment process is used to improve the protection against crack corrosion and the contamination of other steels



Surfaces for use in internal areas



Whether indoors or outdoors, in aggressive atmospheres or under special hygienic conditions: OBO can offer the perfect surface and materials for your cable support system, no matter what the requirements may be. OBO cable support systems are machined from high-quality sheet steel or steel wire and are available with various surfaces. Different hardening and coating methods ensure tailor-made corrosion protection, specially tailored to the appropriate application. In addition, OBO cable support systems are available in stainless steel and with coloured coatings.

Indoor use

For indoor areas, OBO can offer cable support systems with galvanisation or strip galvanisation. They are particularly suited to dry atmospheres without any impact from aggressive pollutants.

Electro-galvanisation

- Electrolytic galvanisation in accordance with DIN EN 12329
 - Average coating thickness approx. 2.5–10 µm
 - According to RoHS guideline
- Components: Mesh cable trays and small parts such as bolts, washers and nuts

Strip galvanisation

- Hot-dip galvanised according to the strip-galvanising method in accordance with DIN EN 10327 (formerly DIN EN 10147 and DIN EN 10142)
- Average coating thickness approx. 20 µm
- Joints in the metal are protected by cathodic corrosion protection up to a thickness of 2.0 mm

Components: Metal products such as cable trays, fittings and barrier strips

Surfaces for use in external areas



Outdoor use

OBO can offer versions with hot dip galvanisation and double-dip galvanisation for outdoor and wet room use.

Hot-dip galvanisation

- Hot galvanisation using the dipping method according to DIN EN ISO 1461
- Coating thickness to DIN EN ISO 1461 approx. 40–60 µm
- Any interfaces added at a later date must also be galvanised to protect against corrosion

Components: Sheet steel products such as cable trays and welded components such as supports and brackets

Double-dip galvanisation

- Hot dipping with zinc-aluminium coating in accordance with DIN EN 10327
- Average coating thickness approx. 23 µm
- Joints in the metal are protected by cathodic corrosion protection up to a thickness of 2.0 mm

Components: Metal products such as covers, barrier strips and punched parts





Surfaces for use in tunnels, food or chemical industries



Applications: Tunnel construction, food or chemical industries

There are also OBO stainless steel systems for special hygiene and quality requirements for special visual criteria for open wiring.

SS304 stainless steel

- OBO Code: V2A
- European material number: 1.4301
- American material designation: 304
- Welded components are additionally passivated
- Unwelded components are rinsed and degreased

Components: V2A selection programme with the title "V2A stainless steel systems"

V4A stainless steel

- OBO Code: V4A
- European material number: 1.4571
- American material designation: 316 / 316 T
- Welded components are additionally passivated
- Unwelded components are rinsed and degreased

Components: V4A selection programme with the title "V4A stainless steel systems"

Surfaces for special visual requirements or special environmental loads



Applications with specific optical requirements or special environmental conditions

Colour-coated cable support systems are becoming ever more popular. The coating may be required for optical reasons or for reasons of corrosion protection:

Colour coatings for reasons of corrosion protection

- Cable support system in FT (hot-dip galvanised version)
- All RAL colours available
- Coating of the visible surfaces and/or the complete system
- Suitable for the colour of the structure when routed openly
- Separation of different voltages/functions (e.g. blue 230/400 V power supply; red weak current such as telephone line and IT)

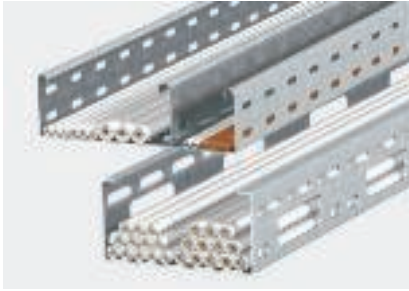
Colour-coated systems are not indicated specially in this catalogue. You can obtain details for these systems by contacting our telephone hotline on +49 (0)2373 89-1500.



Which cabling method is used?



Not all cables are the same. To select the perfect cable support system, you need to know which type of cables are to be laid: Are they sensitive data cables, which must be laid at a certain distance from each other on account of the necessary shielding? Or power cables, for which a not inconsiderable heat build-up must be allowed for? For all these applications OBO can offer tailor-made system solutions.



Universal cable trays

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



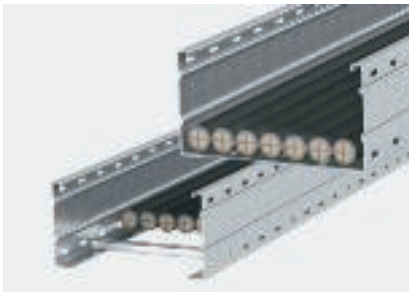
Mesh cable trays for the installation of light cables

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



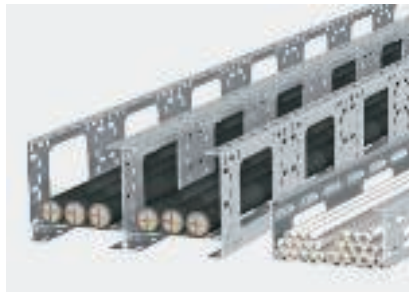
Cable ladders for power cables with a large cross-section

Areas of application: Cables and power conductors with large cross-sections. These can be fastened to the rungs using clamp clips. The high load capacity and good ventilation ensure perfect cable laying.



Wide span cable trays and ladders for large support distances

Areas of application: For installations in which the support distances are more than three metres, on account of the construction conditions.

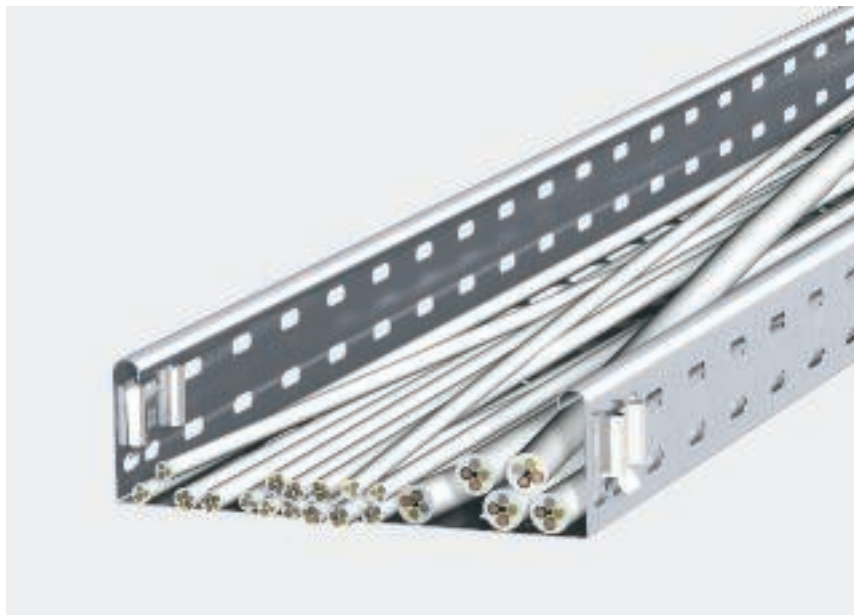


Modular system for special tasks

The product range that knows no bounds. The range of individually combinable products is particularly suited to complex installation tasks.



How can I work out the volume of cables?



The usable cross-section of the cable simulates the cavity in real laying.

An important criterion for the selection of the correct cable support system is the cable volume, for which there must be sufficient space in the cable tray. As the cables are never packed tightly together or are absolutely parallel, it is not enough to base the volume calculation solely on the cable diameter. A realistic calculation is provided by the formula $(2r)^2$. To save you work, we have listed the diameter and usable cross-section of the most important cable types below.

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

Calculation with the formula $(2r)^2$

The diameter says little about the actual space required by a cable. Calculate: $(2r)^2$. This value reflects the realistic space requirements, including the compartments.



Cable diameter (1) and space required (2)



How can I work out the volume of cables?



Insulated power cables

Type	Diameter mm	Usable cross-section cm ²
1 x 4	6.5	0.42
1 x 6	7	0.49
1 x 10	8	0.64
1 x 16	9.5	0.9
1 x 25	12.5	1.56
3 x 1.5	8.5	0.72
3 x 2.5	9.5	0.9
3 x 4	11	1.21
4 x 1.5	9	0.81
4 x 2.5	10.5	1.1
4 x 4	12.5	1.56
4 x 6	13.5	1.82
4 x 10	16.5	2.72
4 x 16	19	3.61
4 x 25	23.5	5.52
4 x 35	26	6.76
5 x 1.5	9.5	0.9
5 x 2.5	11	1.21
5 x 4	13.5	1.82
5 x 6	14.5	2.1
5 x 10	18	3.24
5 x 16	21.5	4.62
5 x 25	26	6.76
7 x 1.5	10.5	1.1
7 x 2.5	13	1.69



Insulated power cables

Type	Diameter mm	Usable cross-section cm ²
1 x 10	10.5	1.1
1 x 16	11.5	1.32
1 x 25	12.5	1.56
1 x 35	13.5	1.82
1 x 50	15.5	2.4
1 x 70	16.5	2.72
1 x 95	18.5	3.42
1 x 120	20.5	4.2
1 x 150	22.5	5.06
1 x 185	25	6.25
1 x 240	28	7.84
1 x 300	30	9
3 x 1.5	11.5	1.32
3 x 2.5	12.5	1.56
3 x 10	17.5	3.06
3 x 16	19.5	3.8
3 x 50	26	6.76
3 x 70	30	9
3 x 120	36	12.96
4 x 1.5	12.5	1.56
4 x 2.5	13.5	1.82
4 x 6	16.5	2.72
4 x 10	18.5	3.42
4 x 16	21.5	4.62
4 x 25	25.5	6.5
4 x 35	28	7.84
4 x 50	30	9
4 x 70	34	11.56
4 x 95	39	15.21
4 x 120	42	17.64
4 x 150	47	22
4 x 185	52	27
4 x 240	58	33.6
5 x 1.5	13.5	1.82
5 x 2.5	14.5	2.1
5 x 6	18.5	3.42
5 x 10	20.5	4.2
5 x 16	22.5	5.06
5 x 25	27.5	7.56
5 x 35	34	11.56
5 x 50	40	16



Telecommunications cables

Type	Diameter mm	Usable cross-section cm ²
2 x 2 x 0.6	5	0.25
4 x 2 x 0.6	5.5	0.3
6 x 2 x 0.6	6.5	0.42
10 x 2 x 0.6	7.5	0.56
20 x 2 x 0.6	9	0.81
40 x 2 x 0.6	11	1.12
60 x 2 x 0.6	13	1.69
100 x 2 x 0.6	17	2.89
200 x 2 x 0.6	23	5.29
2 x 2 x 0.8	6	0.36
4 x 2 x 0.8	7	0.49
6 x 2 x 0.8	8.5	0.72
10 x 2 x 0.8	9.5	0.9
20 x 2 x 0.8	13	1.69
40 x 2 x 0.8	16.5	2.72
60 x 2 x 0.8	20	4
100 x 2 x 0.8	25.5	6.5
200 x 2 x 0.8	32	10.24



IT cables Type Cat...

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



Coax cable (Standard)

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



How can I find a system of the appropriate volume?



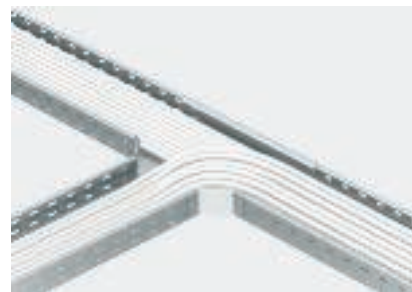
Cable height

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



Volume reserve

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



Branches

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



Separation of system levels

When selecting the volume, pay attention to the different conductors. To separate different voltage levels, you must take the required spacings into account.



Same usable cross-section, different requirements

The following table will help you to choose a cable support system of the right volume. It underlines the interplay of tray or conductor width, slant height and usable cross-section. The difference when laying the same volume of data and power cables should be taken into account: while it is possible to select a narrow, high tray for data cables, a wide, flat tray is necessary for power cables. When selecting the correct system, also observe with the current DIN/VDE standards (0298 T1 to T4). They provide information on the heating of conductors, depending on the amassment and the ambient temperature.



Examples

Flat, wide variant:

- e.g. for power cables
- Cable tray width: 300 mm
- Side rail height: 35 mm
- Usable cross-section: 103 cm²

Narrow, high variant:

- e.g. for data cables
- Cable tray width: 100 mm
- Side height: 110 mm
- Usable cross-section: 108 cm²



Reference laying types

Reference laying types

The specifications of DIN 298-4 with regard to the mass and ventilation of cables should be taken into account during laying.



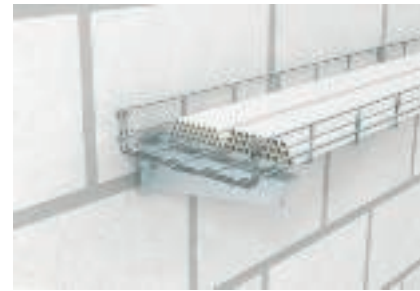
Reference laying type: C

Cable on unperforated cable tray, e.g. type MKSU



Reference laying type: E or F

Cable on perforated cable tray, horizontal/vertical, e.g. type RKS/MKS



Reference laying type: E, F or G

Cable or installation cable on mesh cable trays, e. g. type GR-Magic



How do I calculate the cable weight?



100 mm = 15 kg/m.



200 mm = 30 kg/m



300 mm = 45 kg/m



400 mm = 60 kg/m



500 mm = 75 kg/m



600 mm = 90 kg/m

Of equal significance for the selection of the cable support system most suited to the application is the load capacity of the system. This must be matched with the expected cable weight (including the reserve for later installation). There are three variants for determining the cable weight:

Variant 1: Orientation to experience values

The average load capacity of a cable tray can be calculated roughly using experience values. For a system with a strut height of 60 mm, a value of 15 kg per 100 mm width is valid for each metre of cable tray or cable ladder. However, more accurate than orientation to experience values is to calculate the cable load using the formula from DIN VDE 0639 Part 1 (Variant 2) or the manufacturer's specifications (Variant 3).

The graphics show the load capacities, based on experience values, of cable trays with a rail height of 60 mm, relative to cable tray widths of 100 to 600 mm.

Variant 2: Calculation formula according to VDE 0639 T1

To calculate a maximum approved

cable load, DIN VDE 0639 Part 1 (cable support systems) can offer a formula.

In the example calculation, the maximum approved cable load for a cable tray is worked out using the dimension 60 mm x 300 mm and a usable cross-section of 178 cm².

Variant 3: Exact calculation according to manufacturer's specifications

Most cable manufacturers offer a very accurate method of calculating cable weights, and appropriate lists or tables can be obtained from them. Important: The tables

only provide a rough overview. They are average values, which may vary from manufacturer to manufacturer. Please refer to the manufacturer's specifications for the exact values.

$$\text{Cable load (F)} = \frac{0.028 \text{ N}}{\text{m} \times \text{mm}^2} \times \text{usable-cross-section}$$

1. Cable load (F) = $\frac{0.028 \text{ N}}{\text{m} \times \text{mm}^2} \times 17,800 \text{ mm}^2 = 500 \text{ N/m}$
2. Conversion from Newtons (N) to kilograms (kg)
10 N ~ 1 kg – in our example, this means: 500 N/m = 50 kg/m
3. Maximum occurring load = 50 kg/m



Actual cable weights of different cable types



Insulated power cables

Type	Cable load kg/m
1 x 4	0.08
1 x 6	0.105
1 x 10	0.155
1 x 16	0.23
1 x 25	0.33
3 x 1.5	0.135
3 x 2.5	0.19
3 x 4	0.265
4 x 1.5	0.16
4 x 2.5	0.23
4 x 4	0.33
4 x 6	0.46
4 x 10	0.69
4 x 16	1.09
4 x 25	1.64
4 x 35	2.09
5 x 1.5	0.19
5 x 2.5	0.27
5 x 4	0.41
5 x 6	0.54
5 x 10	0.85
5 x 16	1.35
5 x 25	1.99
7 x 1.5	0.235
7 x 2.5	0.35



Insulated power cables

Type	Cable load kg/m
1 x 10	0.18
1 x 16	0.24
1 x 25	0.35
1 x 35	0.46
1 x 50	0.6
1 x 70	0.8
1 x 95	1.1
1 x 120	1.35
1 x 150	1.65
1 x 185	2
1 x 240	2.6
1 x 300	3.2
3 x 1.5	0.19
3 x 2.5	0.24
3 x 10	0.58
3 x 16	0.81
3 x 50	1.8
3 x 70	2.4
3 x 120	4
4 x 1.5	0.22
4 x 2.5	0.29
4 x 6	0.4
4 x 16	1.05
4 x 25	1.6
4 x 35	1.75
4 x 50	2.3
4 x 70	3.1
4 x 95	4.2
4 x 120	5.2
4 x 150	6.4
4 x 185	8.05
4 x 240	11
5 x 1.5	0.27
5 x 2.5	0.35
5 x 6	0.61
5 x 10	0.88
5 x 16	1.25
5 x 25	1.95
5 x 35	2.4
5 x 50	3.5



Telecommunications cables

Type	Cable load kg/m
2 x 2 x 0.6	0.03
4 x 2 x 0.6	0.035
6 x 2 x 0.6	0.05
10 x 2 x 0.6	0.065
20 x 2 x 0.6	0.11
40 x 2 x 0.6	0.2
60 x 2 x 0.6	0.275
100 x 2 x 0.6	0.445
200 x 2 x 0.6	0.87
2 x 2 x 0.8	0.04
4 x 2 x 0.8	0.055
6 x 2 x 0.8	0.08
10 x 2 x 0.8	0.115
20 x 2 x 0.8	0.205
40 x 2 x 0.8	0.38
60 x 2 x 0.8	0.54
100 x 2 x 0.8	0.875
200 x 2 x 0.8	1.79



IT cables Type Cat...

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

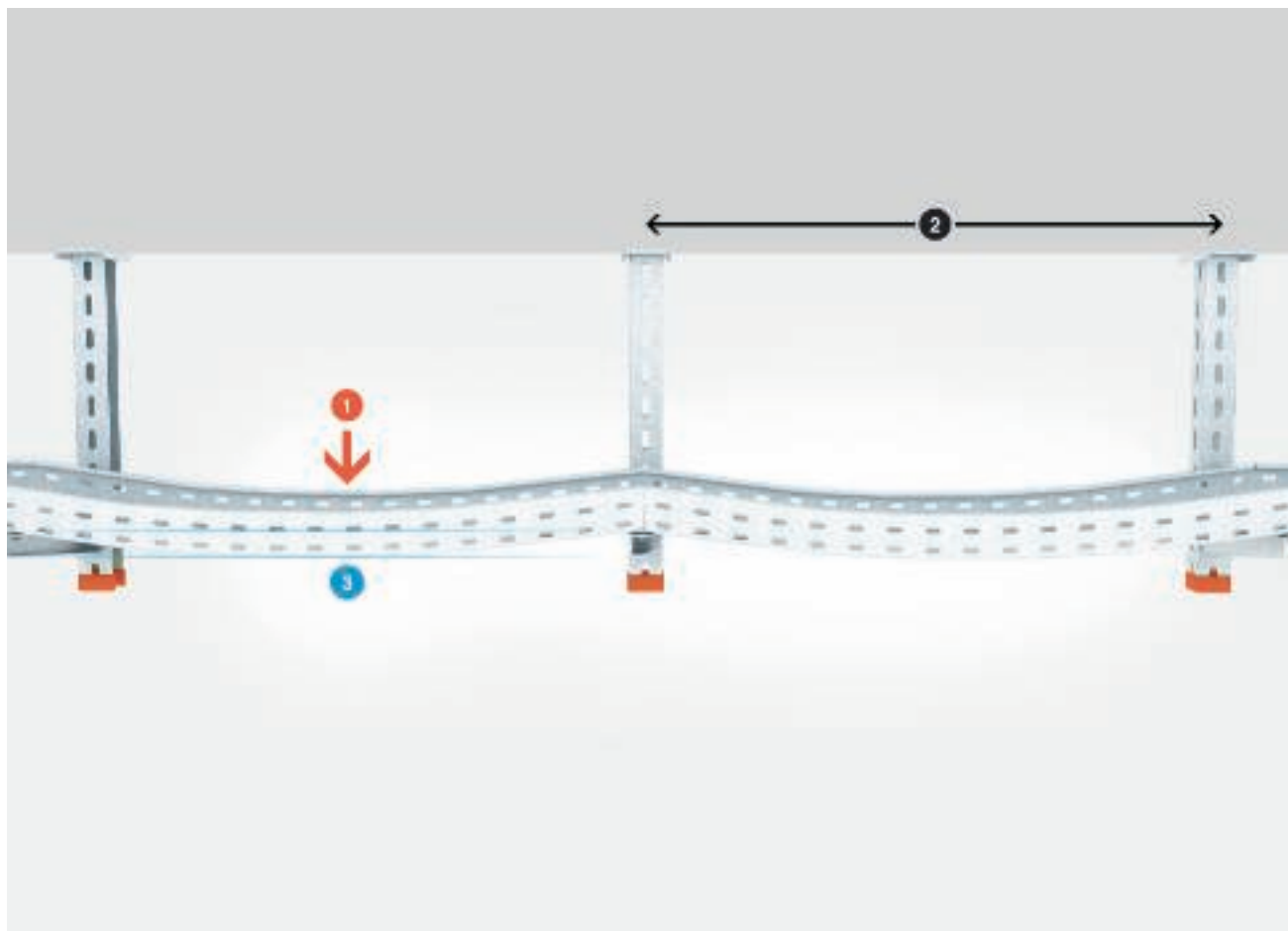


Coax cable (Standard)

Type	Cable load kg/m
SAT/BK cable	0.06



Which trays and ladders can support which cable load?

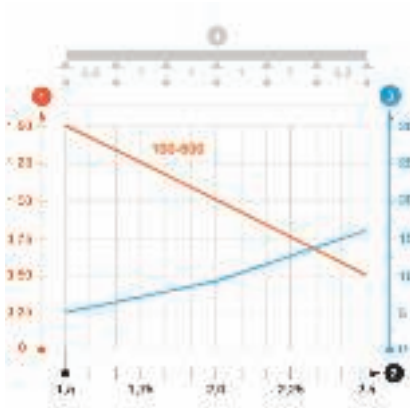


Explanation of the pictograms: 1 = load in kN without man load, 2 = support width in m, 3 = strut bend in mm

Load tests for cable support systems

All the OBO articles and systems are subjected to practical load testing. The basic principles for the tests of OBO cable support systems are included in DIN EN 61537 and DIN VDE 0639. After the load test, the maximum load capacity can be determined for each component, depending on the support distances and specific article parameters, such as component dimensions. This is shown in a diagram, included with each component.

You can find additional information on the load tests for cable trays, brackets and suspended supports in this catalogue. The values given do not take resistance against environmental forces such as snow, wind and other outside influences into account.



Load diagram, legend

- 1 = Load in kN/m without man load
- 2 = Support width in m
- 3 = Strut bending in mm
- 4 = Schematic diagram of the support widths for testing method
- = Approved load for the different tray widths depending on the support spacing
- = Rail bend according to the support width

Information 1: The testing process

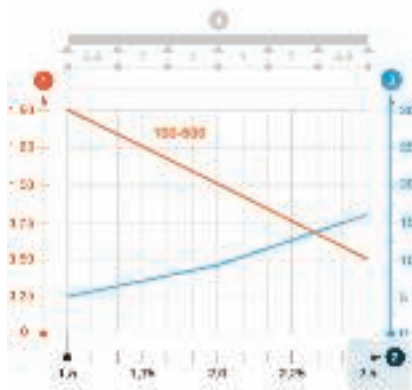
The basic principles of the tests of OBO cable support systems are included in VDE 0639 Part 1 and DIN EN 61537. The purpose of the tests is to determine the maximum load capacities for each component, depending on parameters such as component width, support spacing, etc. and to present this in a diagram to be included with each component. In our example, we have selected the cable tray MKS 60. The area highlighted in blue schematises the experiment setup with a variable support spacing (L) in the central area and a factor of $0.8 \times L$ at the front and rear ends of the cable tray.

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

The load capacity of the cable trays according to the support width can be read off in the diagram using the load curves – this is an example for the cable tray MKS 60/... for the tray widths 100 to 600 mm. A key factor for the load capacity of the cable trays is, beside the support spacing and side height, the material thickness, which varies according to type.

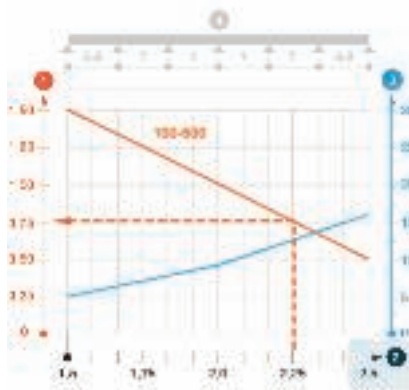


Which trays and ladders can support which cable load?



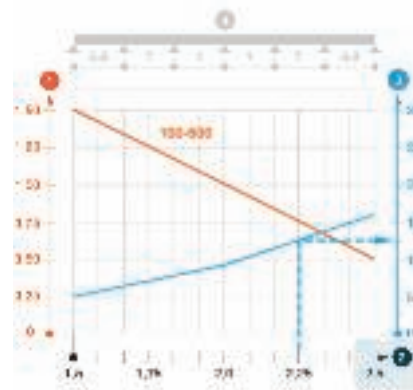
Information 3: Possible support spacings

The theoretically possible spans for the cable tray can be read off on the axis at the foot of the table. Using the load curves, it is easy to read off to what extent the load capacity of the system falls as the support spacing grows. On all OBO cable support systems (with the exception of the wide span trays), we recommend not exceeding a support spacing of 1.5 m, if possible.



Information 4: Ratio: load/span

Which load is possible at which support spacing? With the diagram, you can find the appropriate information at a glance. In our example (with the blue background) a span of 2.25 m on the MKS tray produces a maximum load capacity of 0.75 kN for each running metre of cable tray. Please note that, in this example, the volume of the cable tray may exceed the permitted load. Therefore, if at possible, do not exceed the support spacing of 1.5 m, as recommended by OBO.



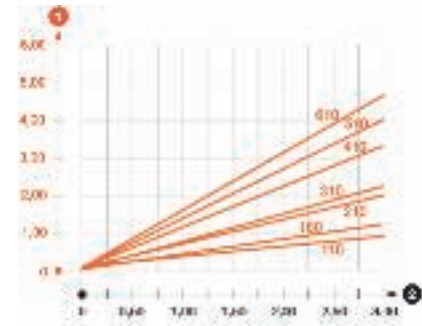
Information 5: W = Strut sag

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

The course of the blue curve clearly shows how quickly the cable tray will sag as the support spacing increases. In our example, the bend at a support spacing of 2.25 m is shown, here approximately 12 mm.



Which bracket can support which cable load?



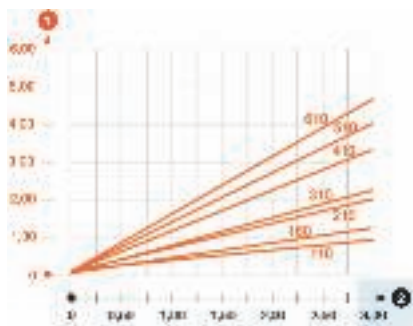
Load diagram, legend

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

Key components of the OBO cable support systems are the installation components, in particular the brackets and suspended supports. They connect the cable trays and ladders to the wall and to the ceiling, and are thus an important construction element of the overall system. When calculating the load capacity of a cable support system, the brackets and suspended supports must not be forgotten. The test diagram is also useful in selecting the right products.

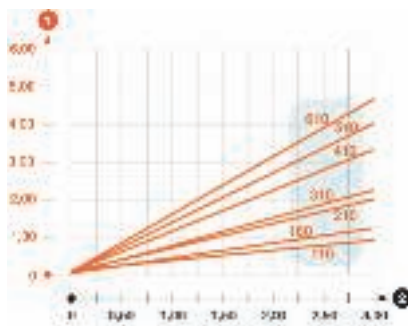


Which bracket can support which cable load?



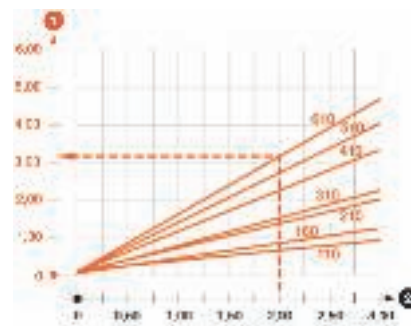
Information 1: Recommended maximum load of the brackets

The bracket is the part of the installation system upon which the cable tray or mesh cable tray is located. It is either directly connected to the wall or is connected to the ceiling using supports. The grey bar on the right edge of the diagram provides information on the maximum load capacity of the bracket.



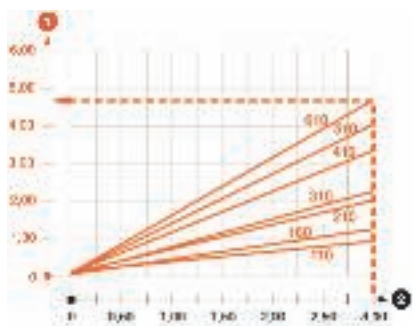
Information 2: Load curves for all bracket widths

The bending of the bracket is dependent on its width, which, in our example, can range from 110 mm to 610 mm. The load curves are assigned to the appropriate bracket type.



Information 3: Bending of the bracket tip at a specific load

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

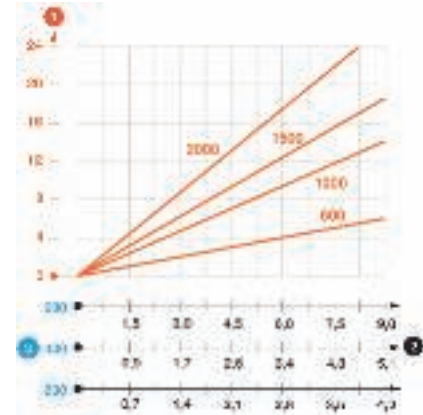
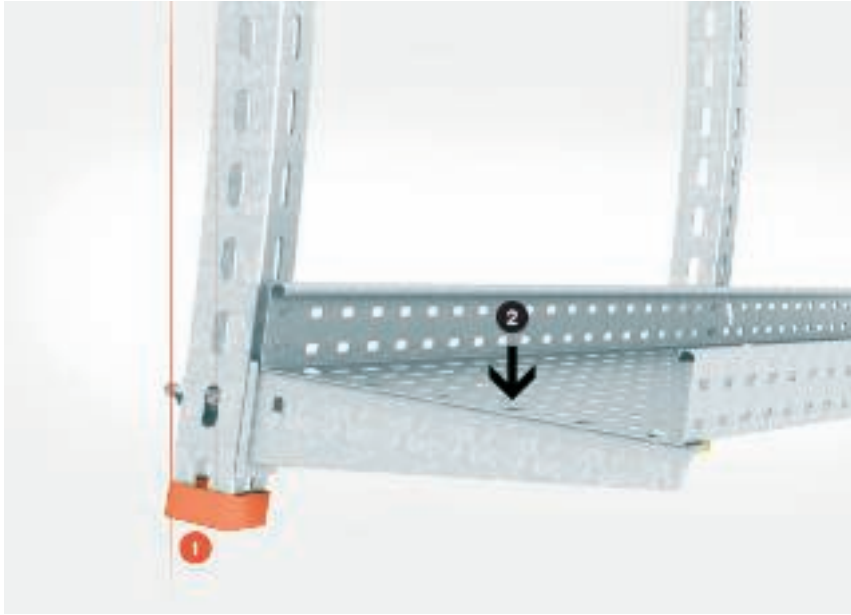


Information 4: Bending of the bracket tip at maximum load

The bending factor of the bracket at maximum load can also be seen in the diagram. In our example (shown in orange), the bend value for a 610 mm wide bracket at a maximum load of approx. 3.0 kN is approximately 4.5 mm. To minimise the bend, the centre of gravity of the cable load should be as close as possible to the wall or the support fastening.

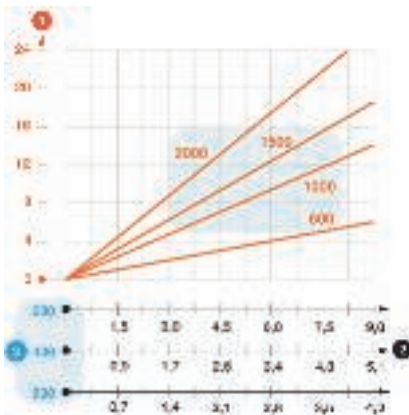


Which support can support which cable load?



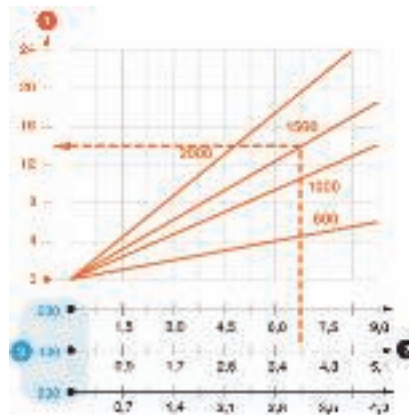
Load diagram, legend

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



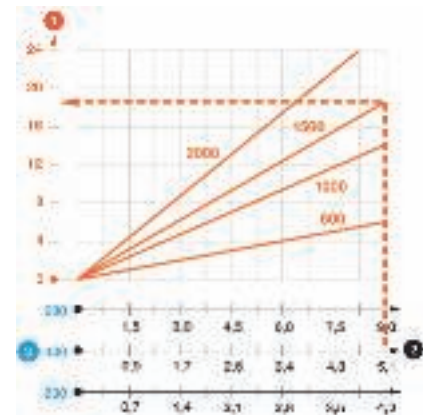
Information 1: Various support lengths and bracket widths

The load capacity of a cable support system is not just dependent on the width of a bracket, but also on the length of a suspended support. The load curves in the diagram provide information on the load capacity of a suspended support of length 600, 1,000, 1,500 or 2,000 mm, taking the bracket width into account.



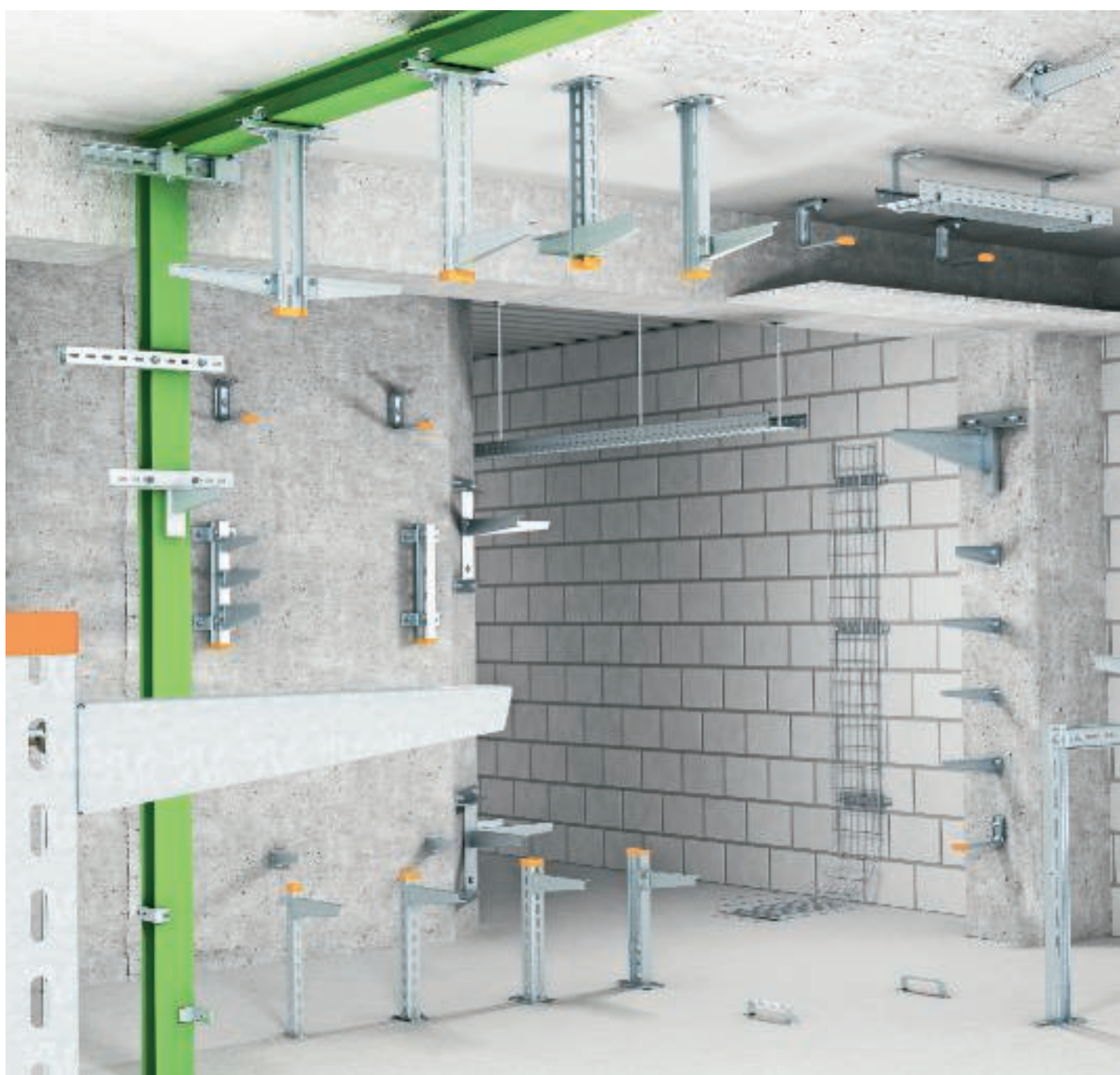
Information 2: Calculation of the deflection for the example

The weight of the total suspended support/bracket/cable tray system causes an excursion of the suspended support from the vertical. The excursion value can be read off from the axis on the left edge of the diagram. In our example (blue background), a 1,500 mm long suspended support, together with a 400 mm wide bracket and a weight load of 4 kN at the end of the support will produce an excursion of approximately 14 mm.



Information 3: Calculation of the excursion at maximum load for the example

The excursion of the suspended support at a maximum load can also be read off on the diagram. Our blue example shows an excursion of roughly 18 mm at the end of the support for a 1,500 mm long suspended support, in combination with a 400 mm wide bracket at a maximum cable load of approximately 5 kN.



Mounting systems



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Installation principle, universal systems

System components

1	Ceiling bracket
2	Trapezoidal fastening
3	Threaded rod
4	Central suspension
5	Suspension clamp
6	Stand-off bracket
7	Stand-off bracket



Mounting aid, universal systems



The universal systems are used for small loads. No matter whether the installation is a ceiling fastening, wall mounting or floor stand-off. The universal system contains all the fastenings with matching system accessories for any applications.

These suspension systems, which can be called basic installations, include centrally loaded ceiling

bracket or trapeze suspensions, which are used with threaded rods and central suspension hangers. When using central suspension hangers, the load should be even on both sides of the system. If an even load cannot be guaranteed, then other systems should be used.

The TP system is a range of light supports and brackets. This prod-

uct range, which consists of TP supports and brackets, can be used universally as ceiling and wall mounting.

On the following pages, you can select your preferred mounting variant from the mounting diagrams shown and combine the corresponding articles in the order section.

Mounting aid, universal systems



Application on the ceiling

Ceiling fastening for low loads on straight and sloping ceilings.



Trapezoidal plate application

Simple, quick fastening of a cable support system to trapezoidal metal roofs.



Installation of centre suspension

Installation of the central suspension MAH 60 on the ceiling using threaded rod 2078/M10 and ceiling bracket 12050. Maximum cable tray width 300 mm.



Universal mounting on the ceiling

The variable ceiling bracket, type DBV, allows threaded rod suspensions on straight and sloping ceilings.



Installation of trapeze suspension

Installation of a cable tray on a trapezoidal ceiling using a ceiling bracket, type TPB 100 and central suspension, type MAH 60. Maximum cable tray width 300 mm. The trapezoidal fastening is mounted using the lock, type TPB R.



Threaded rod suspension RKSM > 400 mm

The threaded rod suspension of RKSM cable trays > 400 mm can take place using two threaded rods.



Centre suspension with threaded rod

Direct centre suspension at low loads of a cable tray with threaded rod 2078/M10.



Installation of central suspension MAH 60

Insertion and alignment of the central suspension, MAH 60, in the cable tray.



Cable ladder centre suspension with threaded rod

Installation of a cable ladder with central suspension MAHU and a threaded rod.

Mounting aid, universal systems



Floor fastening at a distance

Installation of a cable tray at a distance using the stand-off bracket DBL. Maximum cable tray width 600 mm.



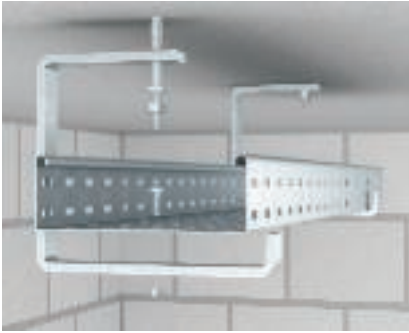
Stand-off of mesh cable trays

Floor stand-off of mesh cable trays with the stand-off bracket, type DBLG 20/... Screwless fastening of the mesh cable tray on the stand-off bracket using clamping lugs.



Threaded rod suspension with ceiling bracket

Ceiling mounting of a cable tray with AHB ceiling bracket and threaded rod 2078/M10. Maximum cable tray width 400 mm.



Direct fastening of the ceiling bracket

Direct mounting of the AHB ceiling bracket with anchor bolt on the ceiling. Maximum cable tray width 400 mm.



Ceiling mounting of TP wall and ceiling bracket

Universal mounting of the TPD wall and ceiling bracket on the ceiling (with DS 4 spacer). Maximum tray width 300 mm.



Installation of TP support with single-sided bracket fixing

Ceiling mounting of a TP support with spacer DS 4 and one-sided bracket mounting. Maximum tray width 300 mm.



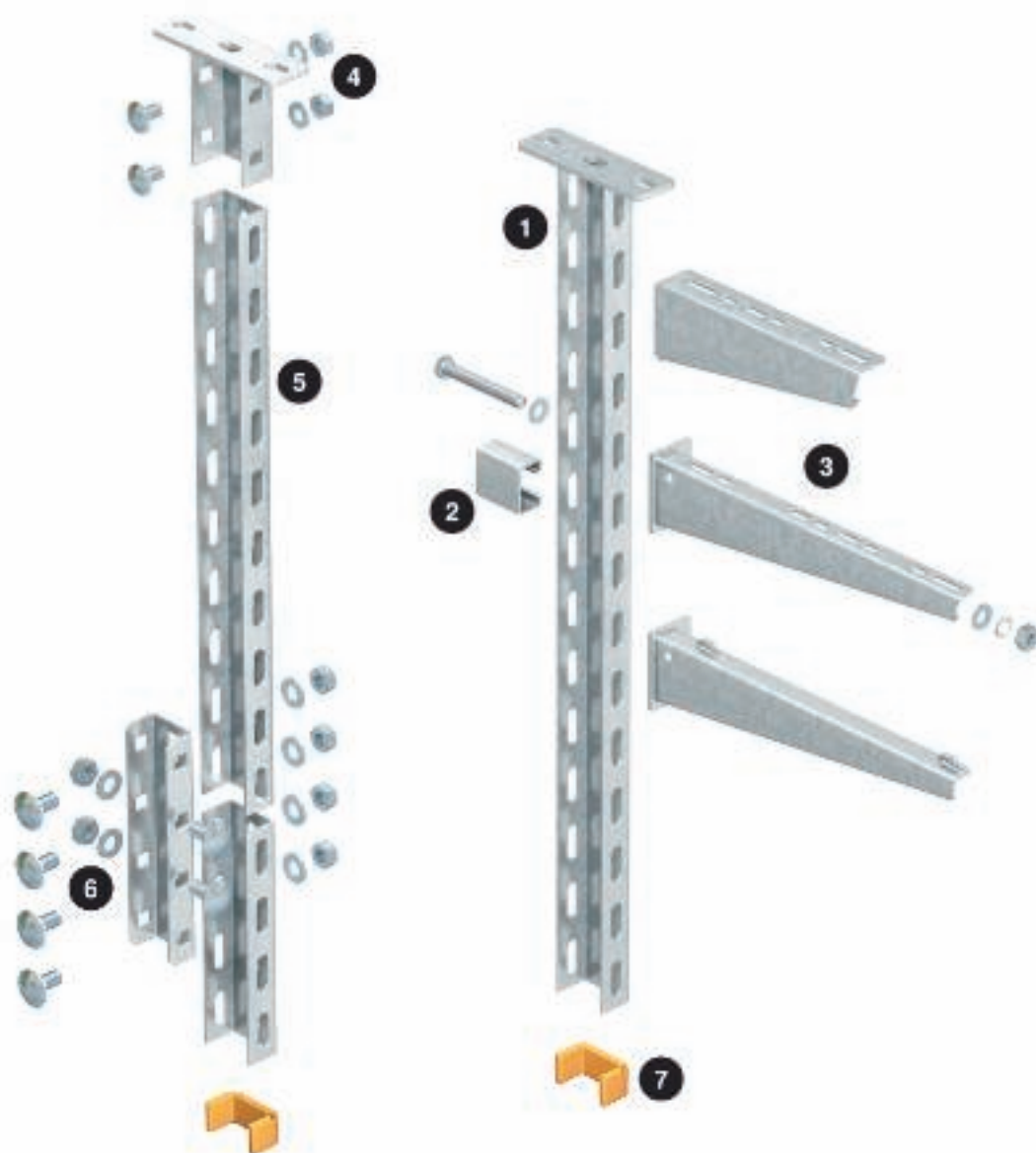
Complete mounting of a TP system

Installation of the TP support with head reinforcement and double-sided bracket mounting and mounting directly on the wall.

Installation principle, U support US 3

System components

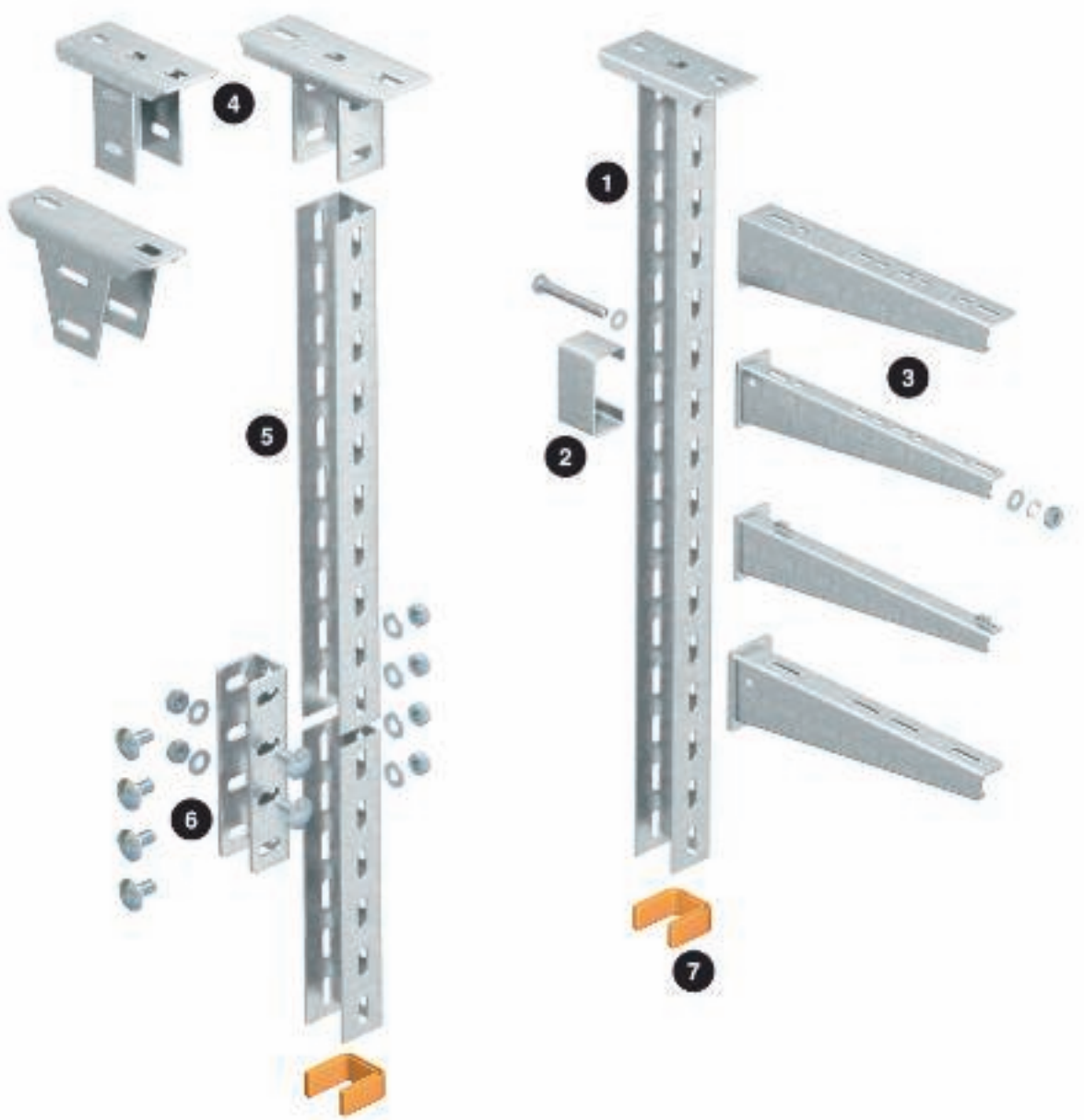
1	US 3 suspended support
2	Spacer
3	Wall and support brackets
4	Head plate
5	US 3 support
6	U support connector
7	Protective cap



Installation principle, U support US 5

System components

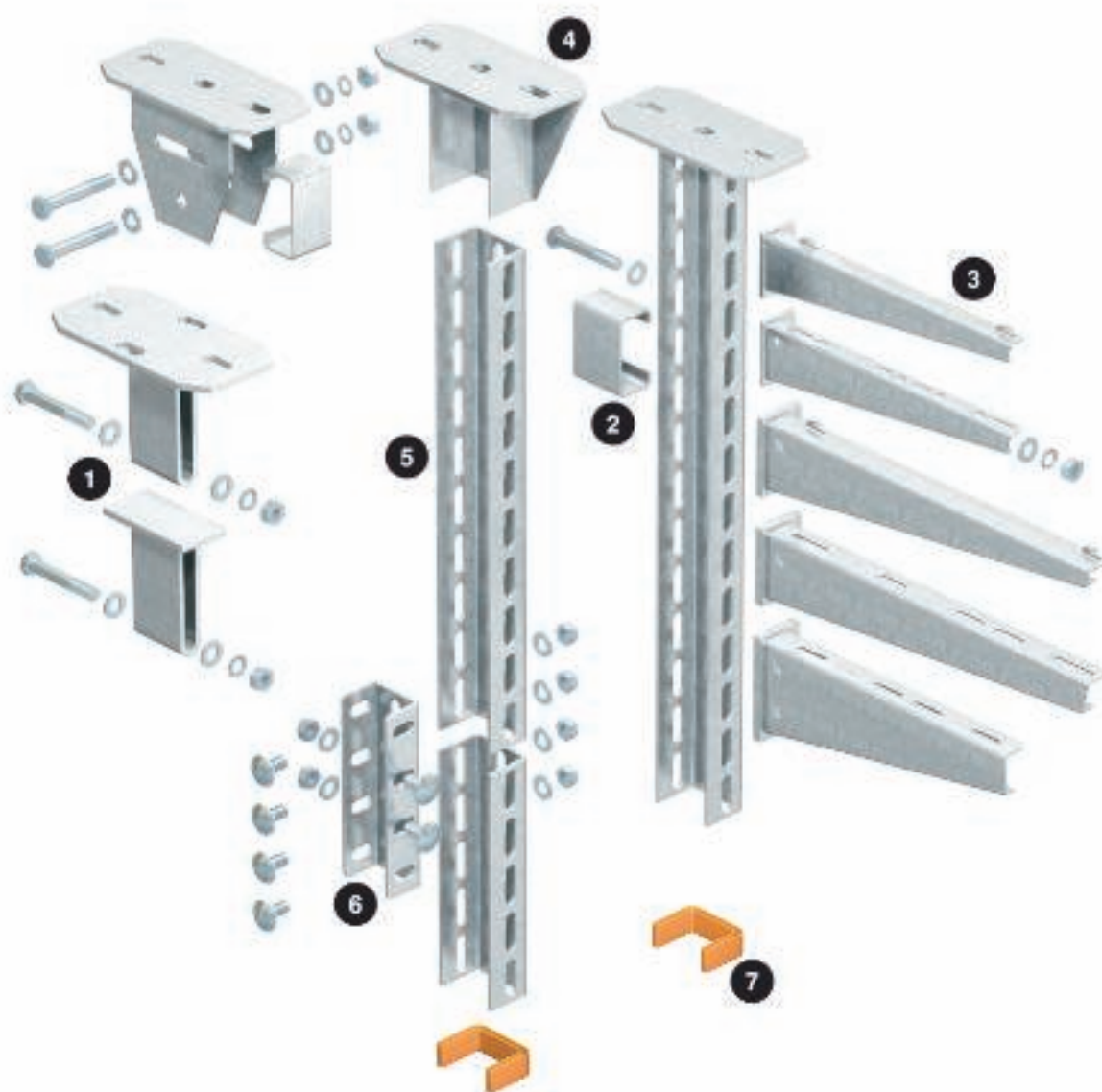
1	US 5 suspended support
2	Spacer
3	Wall and support brackets
4	Head plate
5	US 5 support
6	U support connector
7	Protective cap



Installation principle, U support US 7

System components

1	Head plate for welding
2	Spacer
3	Wall and support brackets
4	Heavy-duty head plate
5	US 7 support
6	U support connector
7	Protective cap



Mounting aid, U support and bracket systems



The perfectly matched U support family consists of US 3 (light-duty system), US 5 (medium-duty system) and US 7 (heavy-duty system). The U support range is particularly noted for its versatility. The U supports can be used as ceiling suspension, floor stand-off or as construction profiles. Besides the U support family with comprehensive accessories, you can also find the wall and support

brackets in this chapter. These can be fastened directly on the wall or on U supports. Classification takes place according to load capacity. The appropriate maximum load can be easily derived from the type of the different wall and support brackets MWA 12 (max. load 1.2 kN), AW 15 (max. load 1.5 kN), AW 30 (max. load 3.0 kN) and AW 55 (max. load 5.5 kN).

On the following pages, you can select your preferred mounting variant from the mounting diagrams shown and combine the corresponding articles in the order section. You can find a comprehensive article description and additional information for the articles, such as load and anchor diagrams, which can help you when selecting the system.

Mounting aid, U support and bracket systems



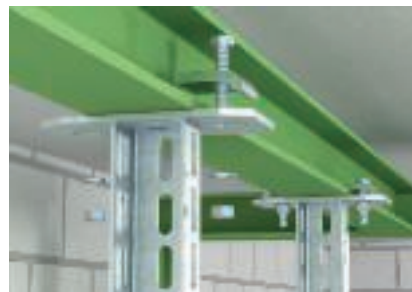
Ceiling mounting

Standard mounting of U supports US 3 K, US 5 K and US 7 K on the ceiling with fastening of the wall and support brackets.



Wall mounting

Direct fastening of wall and support brackets of type AW... on the wall.



Support mounting on steel girders

Clamp fastening of supports to steel girders.



Standard mounting of support with wall bracket, single-sided without spacer

Ceiling fastening of a support with single-sided bracket fastening. No spacer is required for widths up to and including 300 mm.



Standard mounting of support with wall and support bracket, single-sided with spacer

Ceiling fastening of a support with single-sided bracket fastening. For widths of over 400 mm, we recommend using a spacer.



Standard mounting of support with wall and support bracket, double-sided

Ceiling fastening of a support with double-sided bracket mounting.



Direct wall mounting of a bracket

Direct fastening of a bracket of type AW... on the wall.



Wall bracket, variable

Fastening of the variable wall bracket, type AWVL, with anchor bolt, type FAZ II, to vaulted or sloping walls/ceilings.



Support / bracket mounting

Fastening of U supports to concrete ceiling with anchor bolt FAZ II and AW bracket mounting on both sides of the support with spacer and direct bracket fastening on the wall.



Direct girder clamping

Direct girder clamping of an U support using KWS clamping angle. Route in longitudinal direction of steel girder.



Steel clamping with C profile, tray in longitudinal direction

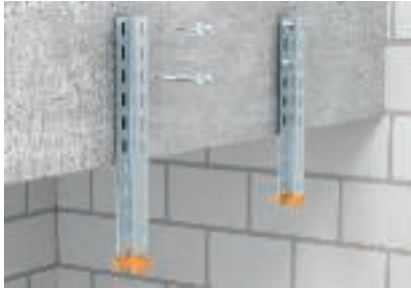
U suspended support mounting, clamped to steel girder with C profile CPS 4 G and TKH-L-25 light-duty chuck jaw. Tray route along steel girder.



Steel clamping with C profile, tray in transverse direction

U suspended support mounting, clamped to steel girder with C profile, type CPS, and TKH-L-25 light-duty chuck jaw. Tray route transverse to steel girder.

Mounting aid, U support and bracket systems



U support wall mounting

U supports are installed on walls or girders using FAZ II anchor bolts, directly through the system perforation in the U support.



U support connection

To connect U supports, use the appropriate U support connectors, types VUS 3, VUS 5 and VUS 7.



Cantilever beam on steel

U supports can be used as cantilever beams on steel girders with chuck jaws of type TKS-L-25. Use DSK spacers for safe functioning.



Head plate mounting

Installation of the standard head plate on support and ceiling. Use with spacer DSK 25 (US 3), DSK 45 (US 5) or DSK 61 (US 7).



Variable head plate

Fastening of the variable head plate KU 5 V to sloping concrete ceilings using anchor bolts, type FAZ II, and spacer DSK 47.



Installation of spacer

Installation of the spacer DSK 47 with US 5 supports or DSK 45 with US 7 supports in conjunction with a variable head plate KU 5 V or KU 7 VQP.



Head plate mounting

Installation of the head plate using the example KU 7 AOX for direct welding on steel girders.



Variable head plate

Fastening of the variable head plate KU 7 VQP to sloping concrete ceilings using anchor bolts, type FAZ II, and spacer DSK 45.



Adapter head plate, symmetrical

Symmetrical head plate KA-SY to increase the load capacity for the conjunction with supports, types US 7 K and IS 8 K.



Adapter head plate, asymmetrical

Asymmetrical head plate KA-ASY to increase the load capacity for the combination with supports, type US 7 K and IS 8 K.



Traverse

Installation of U supports US 3 K, US 5 K and US 7 K under the ceiling using anchor bolts, FAZ II, and use of a trapeze, consisting of U profile US 3, US 5 or US 7.



Clamp fastening of heavy-duty bracket

Clamp fastening of a heavy-duty bracket with clamping angles or clamping lugs on a vertical steel girder.

Mounting aid, U support and bracket systems



45° adapter plate, steel clamping

Installation of the 45° adapter plate, type KA-E 45, on the steel girder using clamping angles or chuck jaws. For additional support of trays at room corners.



45° adapter plate, concrete mounting

Installation of the 45° adapter plate, type KA-E, on a concrete wall. For additional support and implementation of trays at room corners.



Complete mounting of a ceiling fastening

Illustration of complete ceiling mounting with cable trays.



Variable head plate with US 3 support

Installation of the variable head plate, type KU 3 V on US 3 support.



Quick fastening of cable tray on bracket

Positioning the cable tray on the bracket.



Quick fastening of tray on bracket

Fixing of the cable tray on the bracket using quick connector.



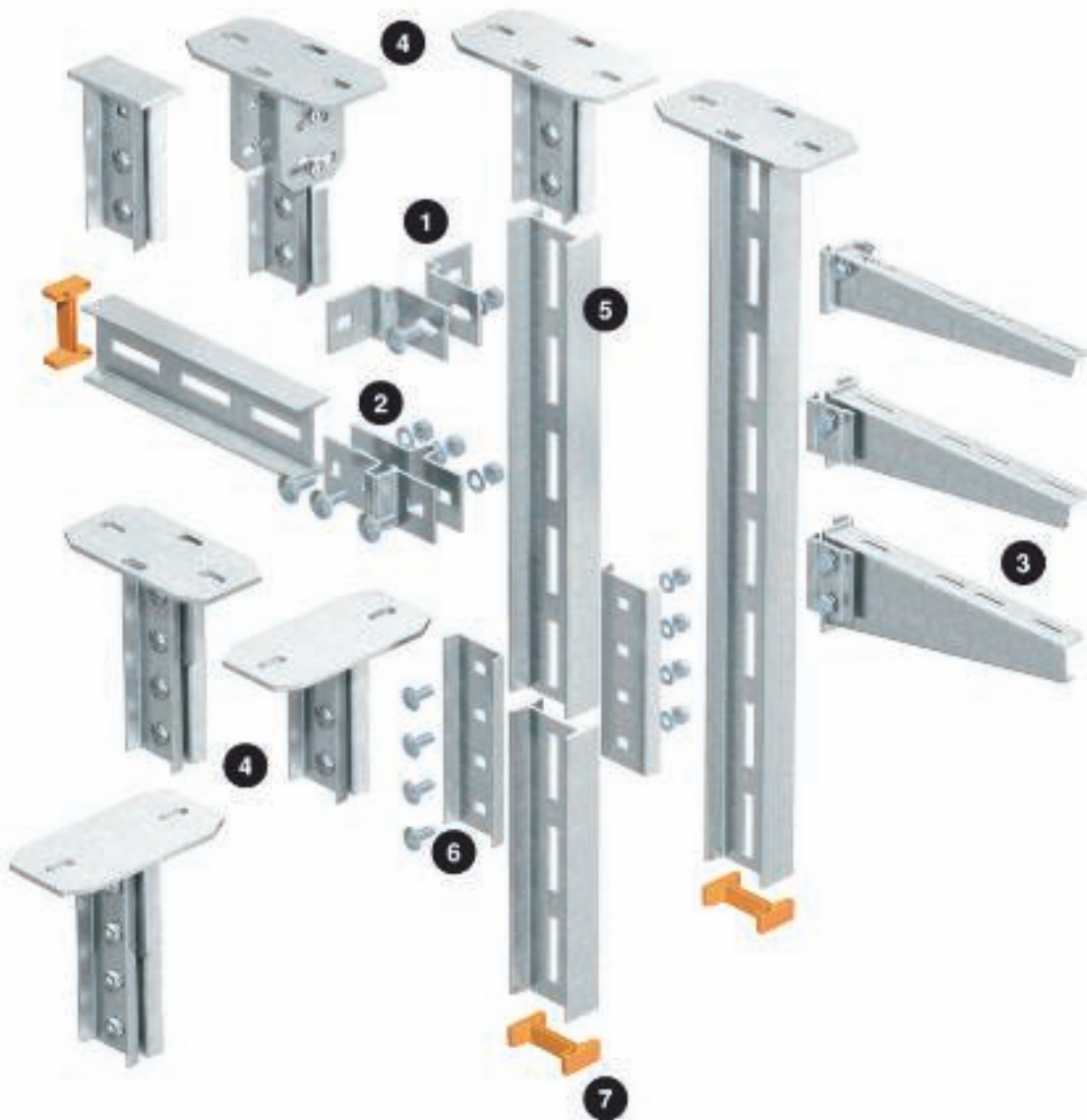
Wall bracket, variable

Fastening of the variable wall bracket, type AWV, with anchor bolt, type FAZ II, to vaulted or sloping walls/ceilings.

Installation principle, I support and bracket systems

System components

1	Mounting angle
2	Support strap
3	Support bracket
4	Head plate
5	I support
6	I support connector
7	Protective cap



Mounting aid, I support and bracket systems



The I support system from OBO Bettermann really comes into its own in situations where high loads must be carried, large distances must be bridged and difficult routes must be implemented. The I support system fulfils all the requirements of a heavy-duty mounting system. The high load capacities of all the system components permit the installation of complex structures. The comprehensive range of head

plates allows the implementation of all conceivable solutions. This heavy-duty system is used with large support spacings of wide span systems or for multi-layer set ups of standard cable trays and cable ladder systems. The combination of I supports and support brackets of type AS 15, AS 30 and AS 55 form a perfectly matched product range, the height of which can be infinitely adjusted.

On the following pages, you can select your preferred mounting variant from the installation diagrams shown and combine the corresponding articles in the order section. You can find a comprehensive article description and additional information for the articles, such as load and anchor diagrams, which can help you when selecting the system.

Mounting aid, I support and bracket systems



Application on the ceiling
Standard mounting of supports to concrete ceilings using anchor bolt, type FAZ II.



Application on steel girder
Clamp fastening of supports on steel girders using various chuck jaws, lengthwise or transverse to the steel girder.



Adapter plate application
Use of adapter plates for difficult tray routes at brackets and room corners.



Installation of I support
Standard mounting of I supports using anchor bolt, type FAZ II, to concrete ceiling.



I support connection
Installation of the I support connector VIS 8 to connect IS 8 supports.



Bracket mounting
Installation of a three-layer cable support system on the concrete ceiling using support bracket mounting, AS 15, AS 30 and AS 55.



Direct girder clamping
Direct girder clamping an I support using heavy-duty chuck jaw, type TKS-S-30. Route in longitudinal direction of steel girder.



Steel clamping with C profile, tray in longitudinal direction
I support with welded head plate mounting, clamped to steel girder with C profile and TKH-L-25 chuck jaw. Tray route along steel girder.



Steel clamping with C profile, tray in transverse direction
I support with welded head plate mounting, clamped to steel girder with C profile and TKH-L-25 chuck jaw. Tray route transverse to steel girder.



Head plate mounting
Fastening of the standard head plate, KI 8, for I support to concrete ceilings using anchor bolts, type FAZ II.



Head plate, variable (rotated through 90°)
Installation of the variable head plate, rotated through 90°, KI 8 VLK to sloping concrete ceilings using anchor bolts, type FAZ II.



Variable head plate
Installation of the variable head plate KI 8 VQP to sloping concrete ceilings using anchor bolts, type FAZ II.

Mounting aid, I support and bracket systems



Head plate, variable (transverse)

Installation of the variable, transversely adjustable head plate, type KI 8 VLP, on rising or falling steel structures with profile rail, type CPS 5 G and clamping angles, type KWH.



Wall mounting, I support

Installation of an I support on the wall using mounting angle, type BW 80/55, and anchor bolts, type FAZ II, to accept multiple support brackets, type AS.



Special structure

Example of installing of a special structure, consisting of I supports (ceiling/wall mounting) with transverse profile and various support brackets, type AS.



Adapter head plate, symmetrical

Symmetrical adapter head plate KA-SY to increase the load capacity for the conjunction with supports, types US 7 K and IS 8 K.



Adapter head plate, asymmetrical

Asymmetrical head plate KA-ASY to increase the load capacity for the combination with supports, type US 7 K and IS 8 K.



Installation of I support system

Example of complete installation of a three-layer I support system on a concrete ceiling using support bracket mounting, AS 15, AS 30 and AS 55.

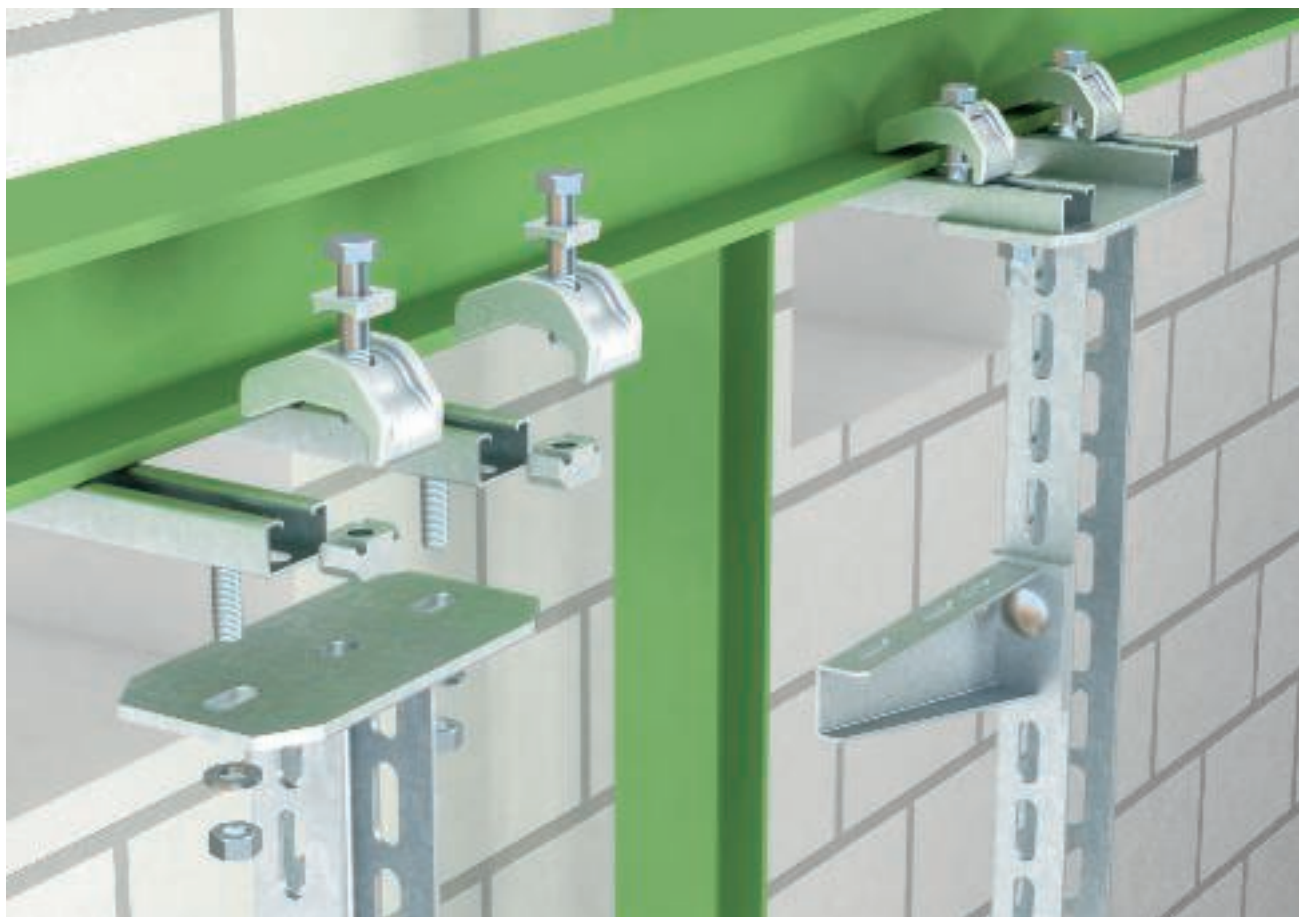
Installation principle, clamp fastening systems

System components

1	Chuck jaw, heavy-duty
2	Chuck jaw, light-duty
3	Adapter plate
4	45° adapter plate
5	Clamping lug/clamping angle
6	Beam clamp, horizontal
7	Beam clamp, vertical



Mounting aid, clamp fastening systems



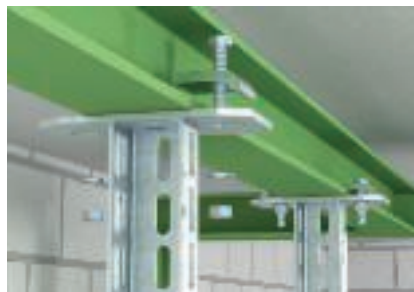
The clamp fastening systems with reduced installation times and work are a clear argument for the use of this system in all areas of professional electrical installations. Clamp fastening can be attached without difficult, often unpermitted drilling. The load range

runs from light-duty clamping angles to heavy-duty chuck jaws. The clamping lugs / clamping angles, type KL, KWH and KWS and the chuck jaws, type TKH and TKS, permit excellent connections without drilling or welding, on account of the perfect matching to

additional system articles.

On the following pages, you can select your preferred mounting variant from the mounting diagrams shown and combine the corresponding articles in the order section.

Mounting aid, clamp fastening systems



Application on horizontal steel girder

Clamp fastenings using clamping angles and chuck jaws on horizontal steel girders.



Application on sloping steel girder

Clamp fastenings using clamping angles and chuck jaws on sloping steel girders.



Application on vertical steel girder

Clamp fastenings using clamping angles and chuck jaws on vertical steel girders.



Steel clamping, C profile rail

Fastening of a C profile, type CPS 4 G or CPS 5 G, to steel girder using clamping angles, type KWS.



Direct girder clamping

Direct girder clamping an I support using chuck jaw (heavy duty), type TKS-S-30. Route along steel girder.



Clamp fastening with addition C profile

Use of an additional C profile rail, type CPS, for wider steel girders. Route along steel girder.



Clamping transverse to steel girder

Use with two C profile rails for tray mounting transverse to the steel girder.



Clamp fastening on sloping steel girders.

Example of a clamp fastening on sloping steel girders with C profile rail and clamping angles or clamping lugs. Route along steel girder.



Cantilever beam on steel

Installation of U support as cantilever beam on steel girder. Fastening with clamping angles or chuck jaws depending on load. Fastening with spacers, type DSK.



Cantilever beam with support

Cantilever beams made of U support construction clamped to steel girder for installing supports.



Clamp fastening on vertical steel girder

Installation of the adapter plate, type KA-AW, on the vertical steel girder using clamping angle or chuck jaws. Wall brackets of type AW are fixed to the adapter plate, using the hexagonal bolt SKS 12 x 40 GF.



45° adapter plate, steel clamping

Installation of the 45° adapter plate, type KA-E 45, on the steel girder using clamping angles or chuck jaws. For additional support of trays at room corners.

Mounting aid, clamp fastening systems



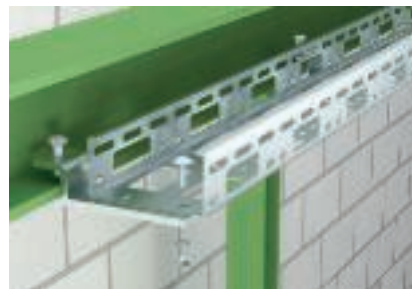
Vertical clamp fastening

Clamp fastening of a heavy-duty bracket with clamping angles or clamping lugs on a vertical steel girder.



Vertical clamp fastening

Installation of a mesh cable tray vertically on a steel girder, mounting with a beam clamp BFK and clamp GKS 50.



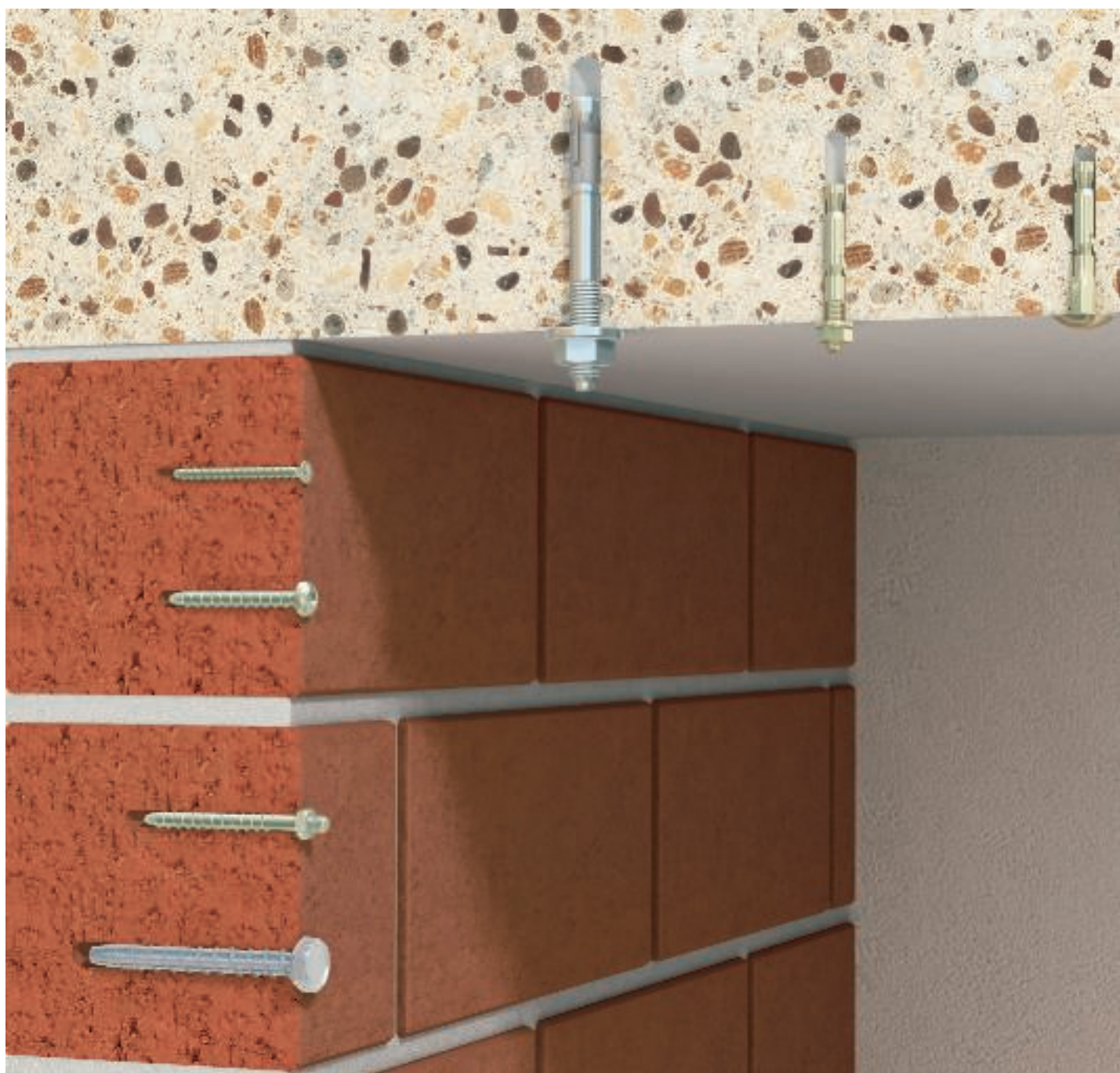
Horizontal clamp fastening

Installation of AZ channel using BFK beam clamp in a longitudinal direction on the steel girder. Maximum cable tray width 100 mm.



Clamp fastening on steel girder

Clamp fastening of U supports using chuck jaws and additional C profile rails.



Fastening systems

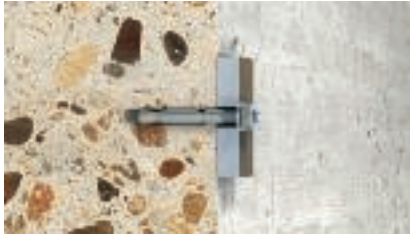


Mounting aid, heavy-duty and bolt ties	58
Mounting aid, injection ties	59





Mounting aid, heavy-duty and bolt ties



Anchor, type FNA, with threaded connection

Nail anchor, type FNA, with M8 threaded connection, usable in reinforced or unreinforced concrete C20/25 to C50/60, load capacity 0.5 kN. Suitable for function maintenance.



Anchor, type FNA, with drive-in head

Nail anchor, type FNA, with drive-in head, usable in reinforced or unreinforced concrete C20/25 to C50/60, load capacity 0.5 kN. Suitable for function maintenance.



Anchor bolt, type FAZ II

Anchor bolt, type FAZ II, for fixing heavy-duty anchorings in reinforced or unreinforced normal concrete C20/25 to C50/60, suitable for push-through mounting, with M8, M10 or M12 connection thread. Load capacity 4.3 kN (M8), 7.6 kN (M10), 11.9 kN (M12). With European technical approval. Suitable for function maintenance.



Impact tie type FZEA

Impact tie, type FZEA, with M8, M10, M12 internal thread. For acceptance of smaller loads, approved for normal concrete C20/25 to C50/60. Load capacity 3.0 kN (M8) and 3.6 kN (M10 and M12). Suitable for function maintenance.



Screw-in anchor, type MMS

Screw-in anchor with hexagonal head for direct mounting without additional anchors. Suitable for use in concrete and masonry. Approved for function maintenance and with European technical approval.



Heavy-duty anchor, type FH

Heavy-duty anchor, type FH, with M12 threaded connection, for fixing components with large loads, approved for normal concrete C20/25 to C50/60. Load capacity 8.26 kN, with European technical approval.



Hollow ceiling tie

Hollow ceiling tie, type FHY, with internal thread M8, M10. For use in pre-stressed concrete core slab ceilings. Load capacity 2.0 kN (M8) and 3.0 kN (M10). Approved for function maintenance.



Long shank dowel, type SXS

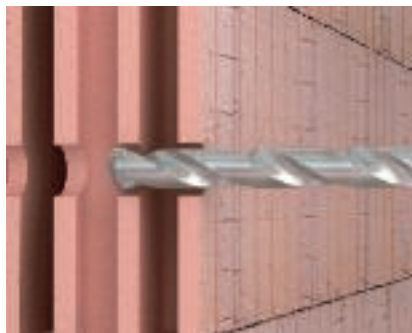
Long shank dowel, type SXS, for universal use. Load capacity up to 2.0 kN. With structure approval.

Mounting aid, injection tie



FIS injection tie system

Injection tie system, consisting of threaded bolt M10, sieve, mortar cartridge and pressing gun. For universal use, load capacity, depending on substrate, up to 1.7 kN. Suitable for function maintenance and with European technical approval.



Use in hollow brick

Drill the hole in the hollow brick according to the selected anchor size and then clean it.



Mounting preparations

Insert the fitting plastic sieve sleeve in the drill hole.



Applying the injection mortar

Press in the injection mortar from the cartridge from the base of the drill hole to the opening. In so doing, draw the point back slowly.



Inserting the anchor rod

Attach the anchor rod in the filled wire sleeve up to the set marking. The mortar pushes through the openings of the wire sleeve, forming a closure.



Mount the component

The component can be mounted when the injection mortar has hardened. Comply with the tightening torque in the approval. The hardening time is dependent on the ambient temperature.



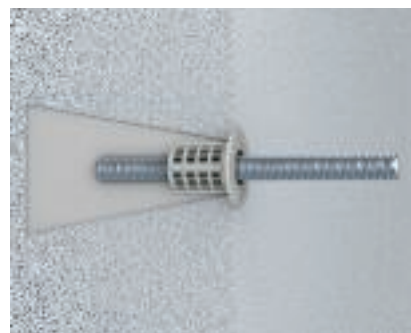
Use in porous concrete wall

Drilling of the anchor hole using the special PBB conical drill. In so doing, rotate the drill to create the back cut of the opening.



Applying the injection mortar

After thorough cleaning of the opening, insert the centring sleeve into the opening. Then insert mortar from the cartridge from the base of the drill hole to the opening.



Inserting the anchor rod

Attach the anchor rod in the filled wire sleeve up to the set marking. The mortar closes up the back-cut.



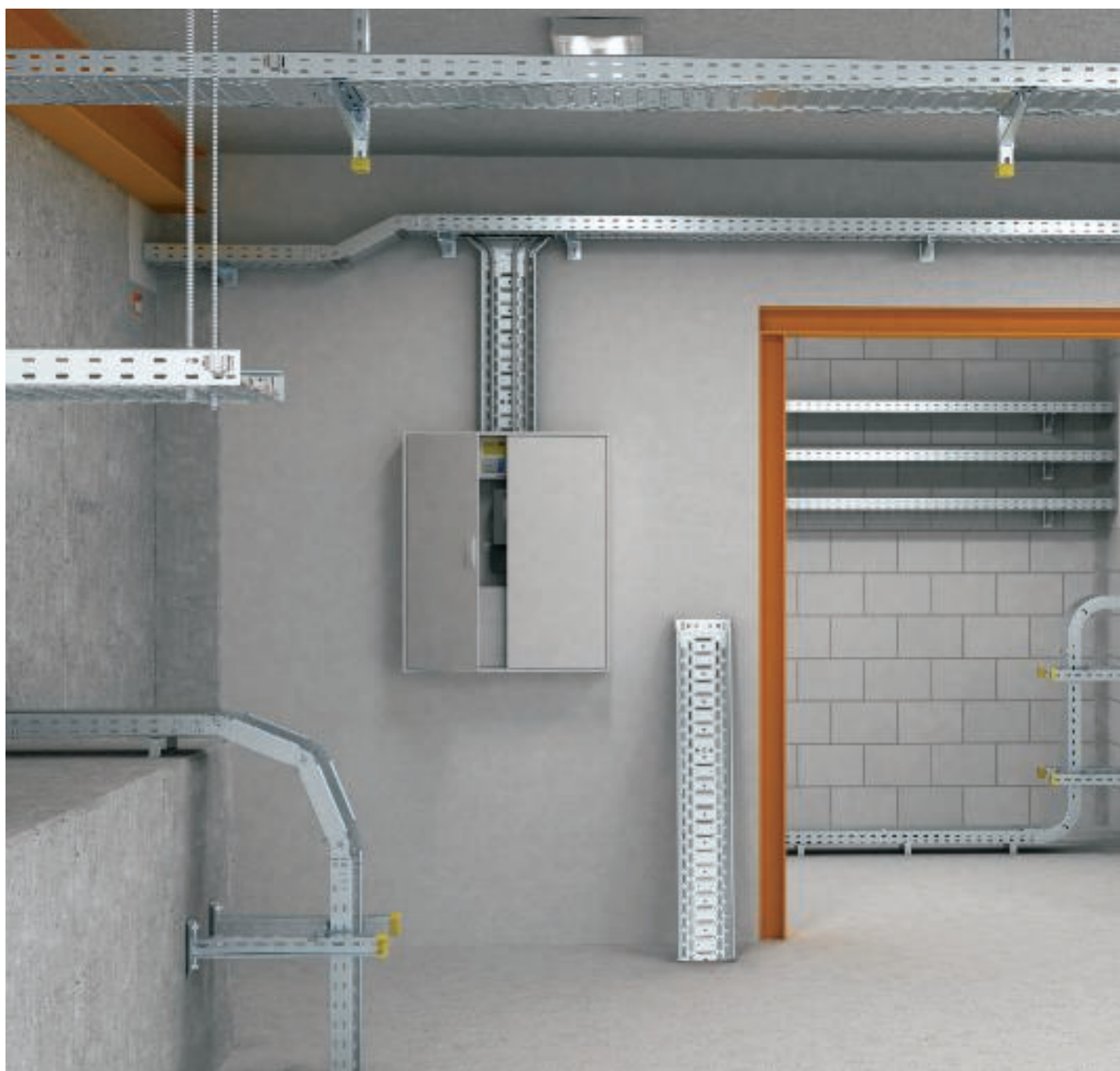


Mounting aid, injection tie



Mount the component

The component can be mounted when the injection mortar has hardened. Comply with the tightening torque in the approval. The hardening time is dependent on the ambient temperature.

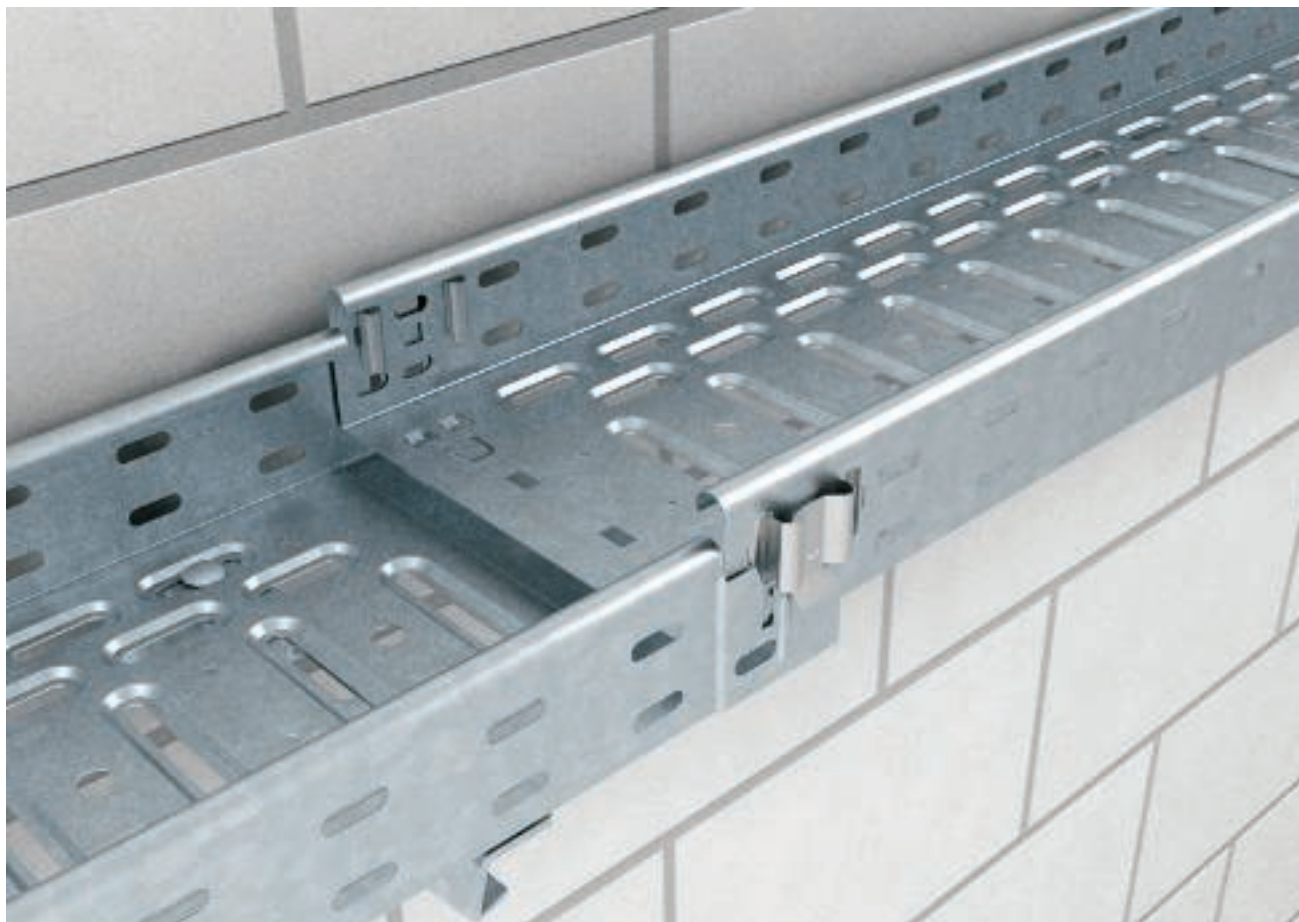




Mounting aid, cable tray system RKSM



Mounting aid, cable tray system RKSM



The RKS-Magic® cable tray system permits even faster straight connectors of the cable tray. The innovative, screwless straight connector can be mounted in the blink of an eye. Just connect the ends of the cable tray, lock them in place – and you're done! The long-lasting, static straight connectors can be permanently stabilised by bending the connection flaps. The RKS-Magic® cable tray is available with the side heights

35 and 60 mm. A comprehensive range of fittings with bends (45° and 90°), tees, add-on tees and cross-overs completes the system. 90° bends and adjustable vertical riser (rising/falling) are available for vertical changes of direction. When installing fittings, always plan additional supports. Besides the various fittings, the system also includes all types of connectors (straight, angle and adjustable connectors) and addi-

tional accessories such as barrier strips, joint plates, mounting plates and covers.

You can find detailed mounting examples and article descriptions on the following pages. The RKS-Magic® cable tray is tested for function maintenance. You can find comprehensive information on this in our new BSS fire protection systems catalogue.

Mounting aid, cable tray system RKSM



Centre suspension application

Direct centre suspension with threaded rod, type 2078/M10. This mounting variant is possible for RKS cable trays of width 50 to 200 mm.



Ceiling mounting application, U support and bracket

Standard mounting of a cable tray with support, type US., and suitable support bracket, type AW.



Wall mounting application with bracket

Standard cable tray mounting on the wall with wall and support brackets.



Straight connection, cable tray interconnection

The straight connection is created by simple connection of the cable trays. Please observe the mounting direction.



Straight connection, cable tray interconnection

The ongoing cable tray is inserted from above from the existing sleeve opening.



Straight connection, cable tray interconnection

The optimum straight connection is confirmed by an audible click. Then use a screwdriver, to turn over the connection lugs in the bottom – and you're done!



Straight connection, cable tray interconnection

It is possible to turn over the connection flap in the floor of the cable tray using a normal screwdriver.



Slackening the connection

Of course the connection can be loosened again. To do this, simply push a screwdriver under the spring element. This releases the lock function.



Connection of the cut end with the interconnection end

Cut ends and the sleeve side are connected using a conventional screw connection.



Mounting aid, cable tray system RKSM



Installation of RV connector set

The connector set RV 60 ... is used for cut ends. Simply clamp the two side sections in the side rail.



Installation of RV connector set

Push the corresponding joint plate down until it has locked in place – and you're done!



MWAM bracket with quick connector

For quick fastening of the cable tray on the bracket, the pre-equipped bracket, MWAM 12, is mounted on the wall or support.



Quick fastening of cable tray on the bracket

The quick fastening is aligned towards the bottom perforation. The cable tray is laid with the perforation on the quick fastening and then aligned.



Quick fastening of cable tray on the bracket

The quick fastening is pushed upwards and turned through 90°. After locking, the quick fastening is fastened permanently by tightening it.



Screwless barrier strip mounting

Screwless mounting of the barrier strip TSG ... with clamping piece KS KR. The barrier strip can be run over the joint without machining and can be connected without bolts using the TSGV barrier strip connector.



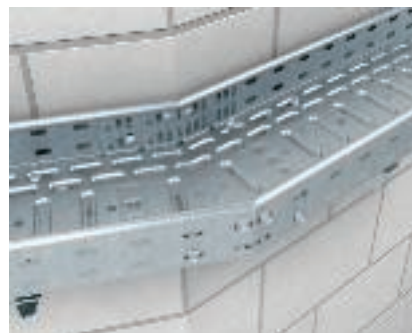
Screwed barrier strip mounting

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



Floor fastening

Floor fastening at a distance with stand-off bracket, type DBL.



Horizontal angle connection of cable trays

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

Mounting aid, cable tray system RKSM



Vertical adjustable connection of cable trays

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



Width change and end closure

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



Removal of the spring element

Before connecting fittings, please remove the spring element as shown. The fitting (from width 400 mm) or a cut cable tray is connected with regular straight connectors or the straight connector set.



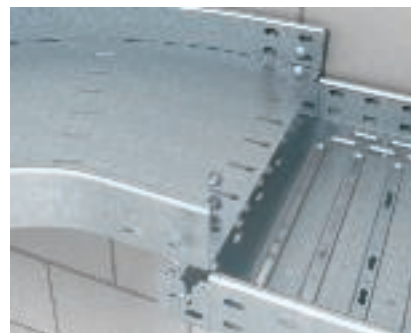
Installation of bend (width 100 – 300 mm)

With uncut lengths, remove the spring elements on the cable tray, push the bend into the tray on one side and, on the other side, over the connector and fasten it with truss-head bolts, type FRSB 6 x 12 mm. With cut lengths, always place the sleeveless side on the fitting.



Installation of bend (width 400 – 600 mm)

The bend is mounted without joints from a width of 400 mm. For this, the spring elements are removed from new cable trays. The cable tray is screwed to the bend using straight connectors (straight connector set) and the joint plate. Please order connecting material separately.



Fitting, width 400 – 600 mm, with cable tray sleeve

The cable tray sleeve side is connected to fittings of > 400 mm width conventionally using truss-head bolts of type FRSB 6x12 mm.



Installation of add-on tee (width 100 – 300 mm)

With uncut lengths, the spring elements of the cable tray are dismantled. The connectors of the add-on tee are pushed into the struts of the cable tray. The add-on tee is fastened using truss-head bolts of type FRSB 6x12 mm. With cut lengths, always place the sleeveless side on the fitting.



Installation of add-on tee (width 400 – 600 mm)

The add-on tee from a width of 400 mm is mounted without joints. For this, the spring elements are removed from new cable trays. The cable tray is screwed to the add-on tee using straight connectors (straight connector set) and the joint plate. Please order connecting material separately.



Installation of vertical add-on tee (bottom view)

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



Mounting aid, cable tray system RKSM



Installation of vertical add-on tee (top view)

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



Installation of tee (width 100 – 300 mm)

With uncut lengths, the spring elements of the cable tray are dismantled. The connectors of the horizontal tee are pushed into the struts of the cable tray. The horizontal tee is fastened using truss-head bolts of type FRSB 6x12 mm. With cut lengths, always place the sleeveless side on the fitting.



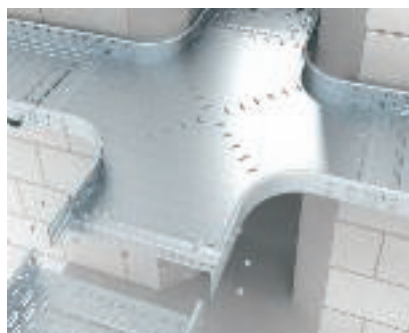
Installation of tee (width 400 – 600 mm)

The tee from a width of 400 mm is mounted without joints. For this, the spring elements are removed from new cable trays. The cable tray is screwed to the tee using straight connectors (straight connector set) and the joint plate. Please order connecting material separately.



Installation of cross-over (width 100 – 300 mm)

With uncut lengths, remove the spring elements on the cable tray, push the cross-over into the rail of the cable tray and fasten it with truss-head bolts, type FRSB 6 x 12 mm. With cut lengths, always place the sleeveless side on the fitting.



Installation of cross-over (width 400 – 600 mm)

The cross-over is mounted without joints from a width of 400 mm. For this, the spring elements are removed from new cable trays. The cable tray is screwed to the cross-over using straight connectors (straight connector set) and the joint plate. Please order connecting material separately.



90° bend (rising/falling)

The 90° vertical bend is pushed over the rail of the cable tray and bolted with truss-head bolts, FRSB M6x12 mm. The cover is placed on loosely and fastened using the incoming cable tray lid.

The cover clamp DKU can be used for additional fastening.



Installation of rising adjustable vertical bend

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



Installation of falling adjustable vertical bend

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



Joint reinforcement

Installation of the joint plate, type SSLB, for safe connection of cut cable trays or when mounting fittings. The SSLB joint plate can be installed above the joint plate of the quick connector set.

Mounting aid, cable tray system RKSM



Installation of bottom end plate

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



Mounting plate with quick fastening

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



Universal mounting plate

The MP UNI mounting plate is fastened on the side rail of the cable tray using a truss-head bolt.



Installation of cover with turn-buckle.

Cover with turn-buckles are fastened by turning the turn-buckle through 90°. Clamp fastening takes place under the rolled side rail of the cable tray.



Screwless cover fastening with cover clamp

Screwless cover mounting takes place with covers and the cover clamps, type DKU. The cover clamp is simply fixed in the perforation of the cable tray.



Installation of cover for fitting

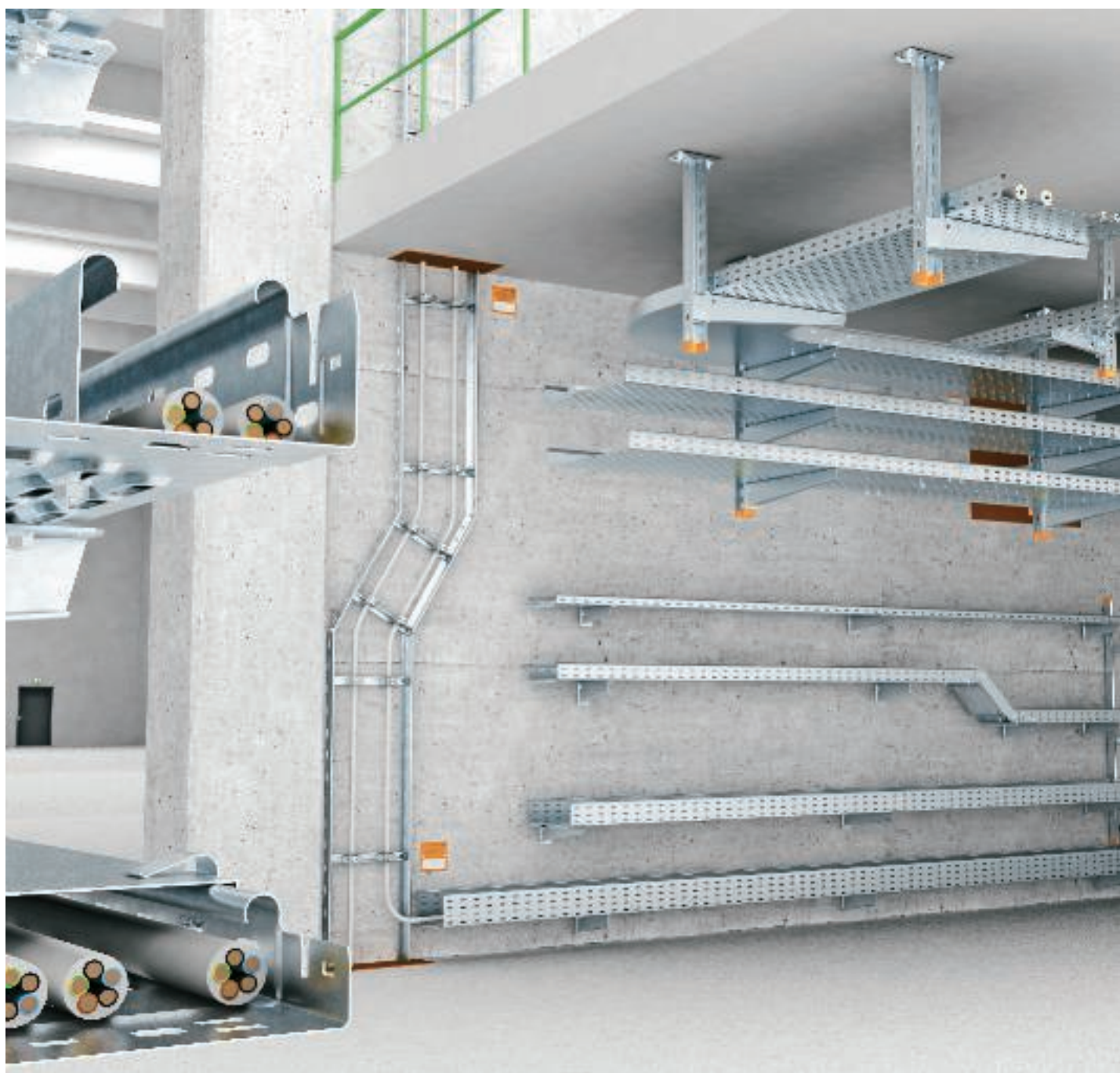
The fitting cover is installed using turn-buckles. To fit it, turn the turn-buckle through 90°.



Edge protection strip for plate ends

The edge protection strip can be used to cover the edges of plates. When selecting the strip, please take the appropriate plate thickness into account.





Contents

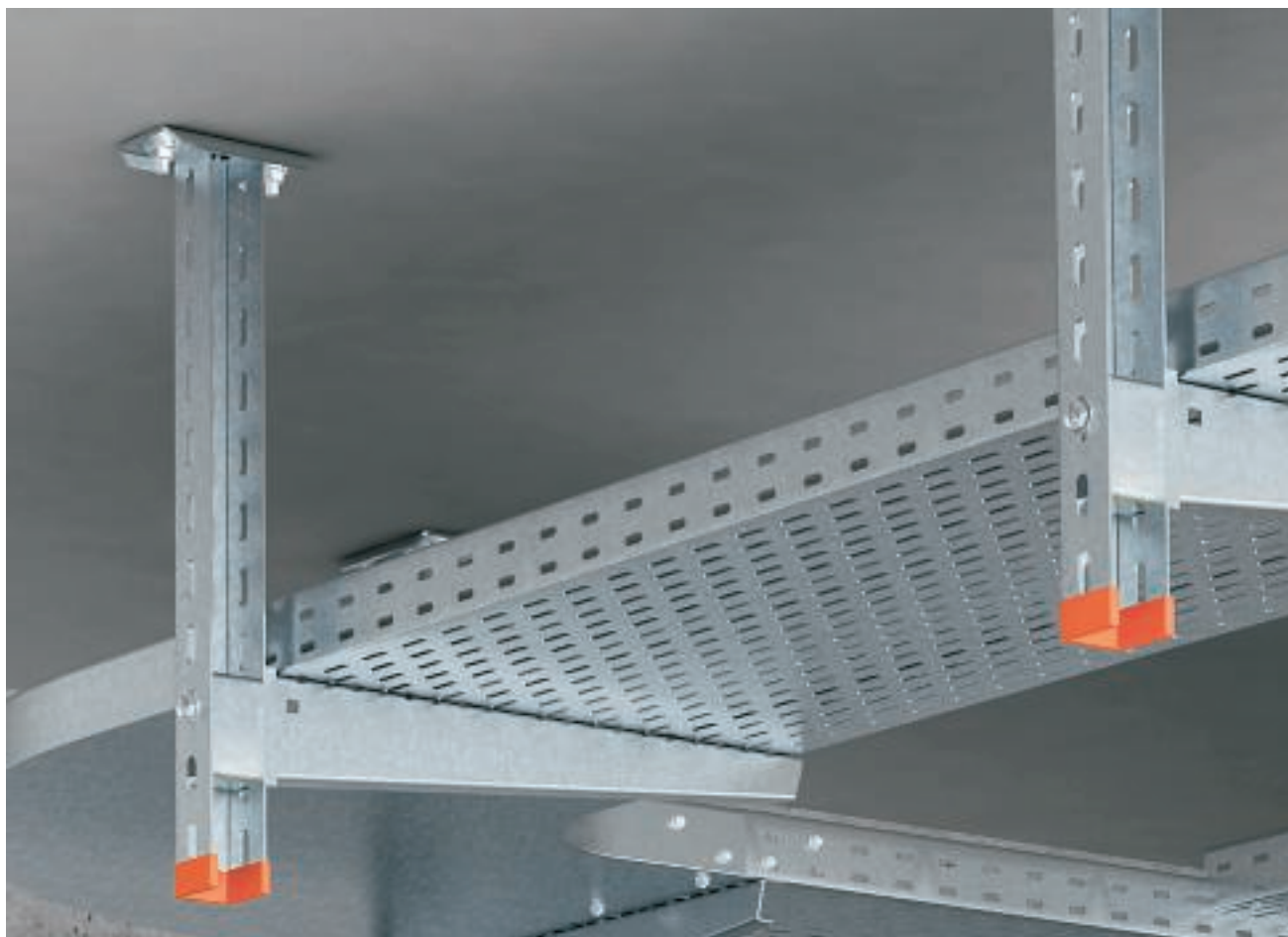


Mounting aid, cable tray systems MKS,SKS, DKS, IKS

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Mounting aid, cable tray system MKS, SKS



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

and materials ensure safe corrosion protection. Side heights of 35, 60, 85 and 110 mm up to the special cable tray systems DKS and IKS with 30% perforations and large entries and exits are available.

When mounting fittings, always plan additional supports.

Besides the various fittings, the system also includes all types of

connectors and additional accessories such as barrier strips, joint plates, mounting plates and covers.

You can find detailed mounting examples and article descriptions on the following pages. You can find comprehensive information on the use of function maintenance in our new BSS fire protection systems catalogue.

Mounting aid, cable tray system MKS, SKS



Centre suspension application

Centre suspension of the cable tray systems MKS, SKS, EKS, DKS and IKS with a central suspension hanger, type MAH, and threaded rod 2078/M10.



Ceiling mounting application

Ceiling mounting of a cable tray with support and wall and support bracket.



Wall mounting application with bracket

Standard mounting of a cable tray on the wall with wall and support brackets.



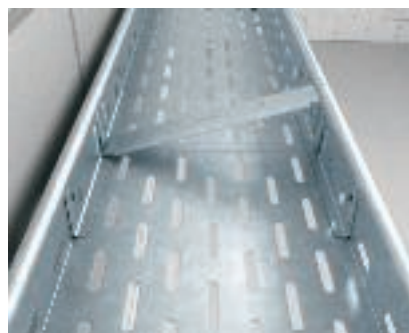
Screwless straight connector set, type RV

Illustration of the quick connector set RV.. contained in the scope of delivery, for strip galvanised cable trays (you can find information on the connectors in the article description).



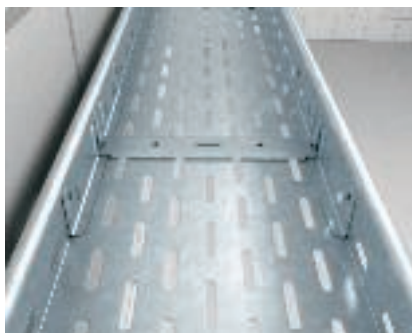
Installation of RV straight connector set

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



Screwless straight connector set, type RV

Push the corresponding joint plate down until it has locked in place.



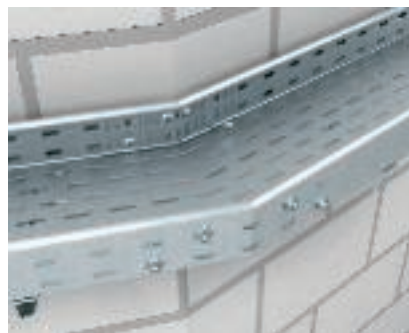
Screwless straight connector set, type RV

Correctly used RV straight connector set.



Straight connection with joint cover

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



Horizontal angle connection of cable trays

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



Vertical adjustable connection of cable trays

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



Bend creation with corner connector

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

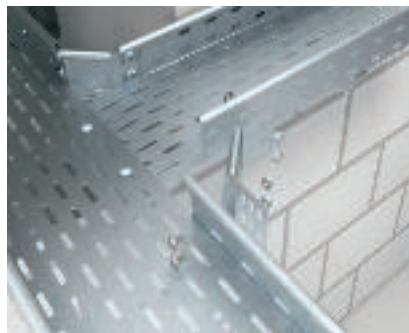


Mounting aid, cable tray system MKS, SKS



Direct connection with corner connectors

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



Branch with angle connectors

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



Installation of reducer / stop-end

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



Screwless barrier strip mounting

Screwless mounting of the barrier strip TSG ... with clamping piece KS KR. The barrier strip can be run over the joint without machining and can be connected without bolts using the TSGV barrier strip connector.



Barrier strip mounting with screw connection

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



Installation of bend (width 100 – 300 mm)

The bend in widths 100 to 300 mm is pushed into the rail on the one side and over the connector on the other. Additional supports should be planned for the area of the fittings.



Installation of bend (width 400 – 600 mm)

The bend in widths 400 to 600 mm is connected to the cable tray using connectors and a joint plate. Additional supports should be planned for the area of the fittings.



Installation of add-on tee (width 100 – 300 mm)

To mount the add-on tee, separate the cable tray rail and screw it tight. Additional supports should be planned for the area of the fittings.



Installation of add-on tee (width 400 – 600 mm)

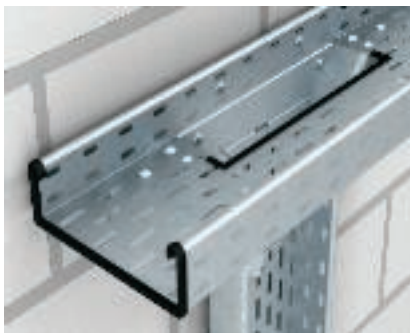
To mount the add-on tee, separate the cable tray rail and screw it tight. Additional supports should be planned for the area of the fittings.

Mounting aid, cable tray system MKS, SKS



Installation of vertical add-on tee

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



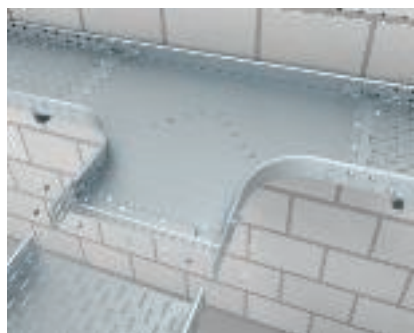
Installation of vertical add-on tee

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



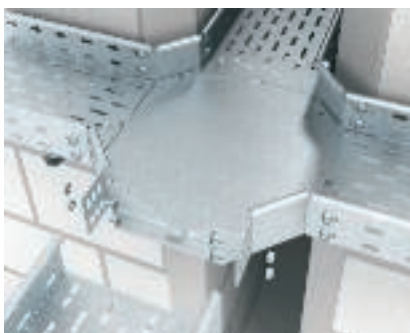
Installation of tee (width 100 – 300 mm)

The tee in widths 100 to 300 mm is pushed into the rail on the one side and over the connector on the other. Additional supports should be planned for the area of the fittings.



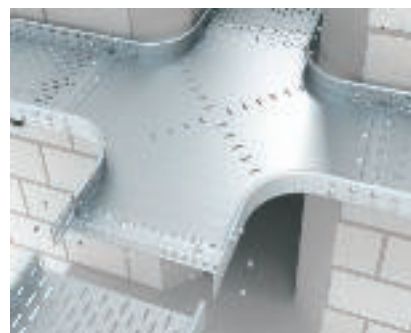
Installation of tee (width 400 – 600 mm)

The tee in widths 400 to 600 mm is connected to the cable tray using connectors and a joint plate. Additional supports should be planned for the area of the fittings.



Installation of cross-over (width 100 – 300 mm)

The cross-over in widths 100 to 300 mm is pushed over connectors and screwed tight. Additional supports should be planned for the area of the fittings.



Installation of cross-over (width 400 – 600 mm)

The cross-over in widths 400 to 600 mm is connected to the cable tray using connectors and a joint plate. Additional supports should be planned for the area of the fittings.



90° bend (rising/falling)

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



Installation of adjustable vertical bend element

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



Installation of rising adjustable vertical bend

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

Mounting aid, cable tray system MKS, SKS



Screwless cover mounting

Screwless installation of the cover, type DRLU, on a cable tray using the cover clamp, type DKU. The cover clamp locks in the top hole of the side rail.



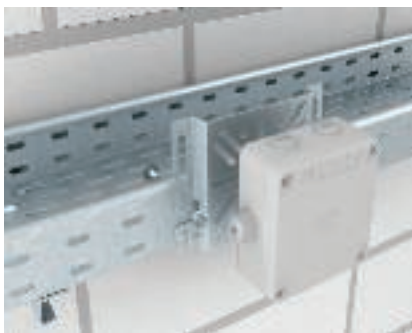
Installation of bottom end plate

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



Mounting plate with quick fastening

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



Universal mounting plate

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



Fastening on bracket

The cable tray is fastened to the bracket with truss-head bolts FRS M6 x 12.



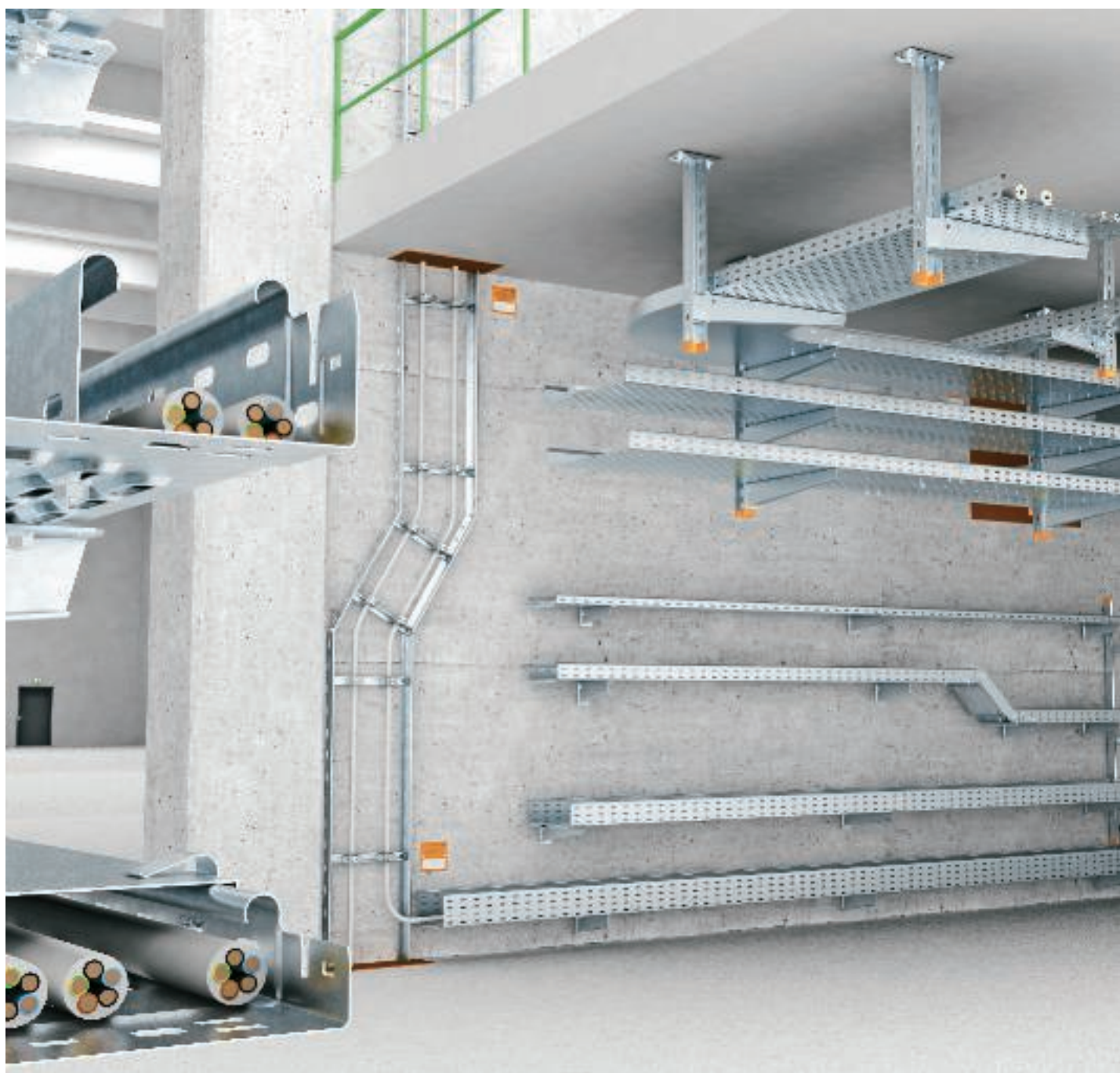
Cable tray mounting on steel girder

Cable tray mounting with chuck jaws of type TKS-L-25 and U supports as cantilever beams on steel girders. Use spacers, type DSK, for safe functioning.



Complete mounting of a cable tray system

Illustration of a multi-layer cable tray system mounted on the ceiling.



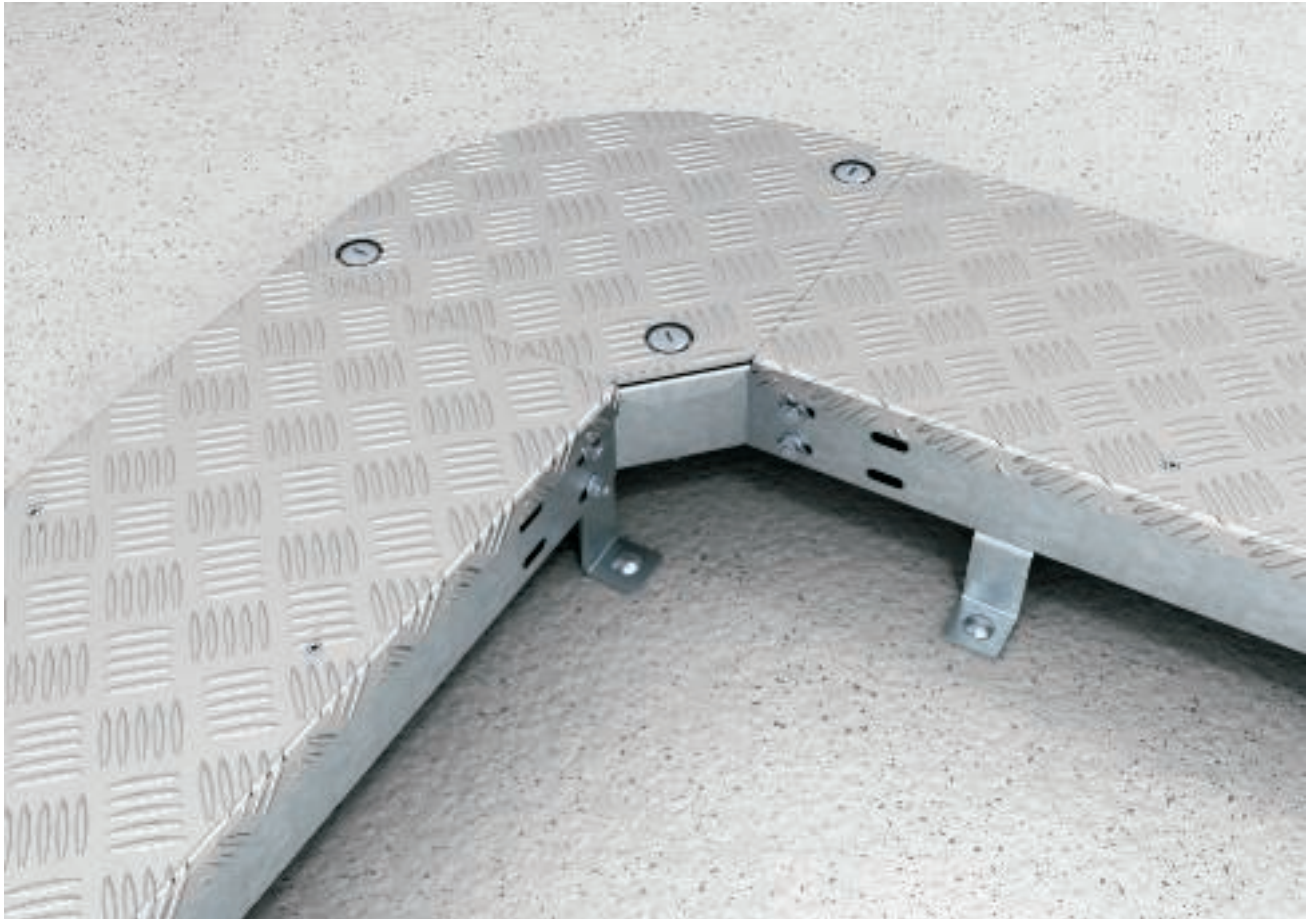
Walk-on cable tray system



Mounting aid, walk-on cable tray system



Mounting aid, walk-on cable tray system



Optimised for worldwide use in systems construction and in the automotive industry with its automated production lines, the walkable cable tray system from OBO Bettermann is ready for any task. The non-slip, impact-resistant alu-

minium profile-reinforced covers and the unperforated cable trays, type SKSU, which serve as the base, are absolutely suitable for the rough and tumble of everyday work. Comprehensive accessories, such as bends, add-on tees,

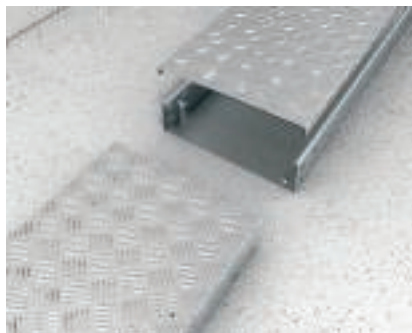
connectors with cover supports, barrier strips and all the fastening materials optimise this system for universal use and ensure a flexible system, which allows low-cost installations.

Mounting aid, walk-on cable tray system



Walkable cable tray system application

Walkable cable tray system, with stand-off on U profile structure.



Floor application

Installation of the walkable cable tray system directly on the ground.



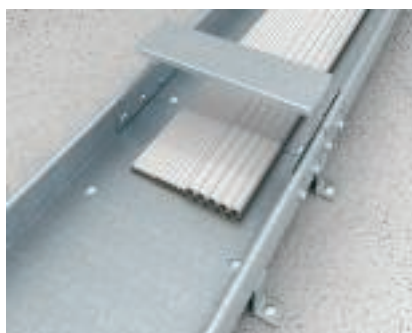
Stand off application

Installation and fastening of the walkable cable tray system for floor stand-off.



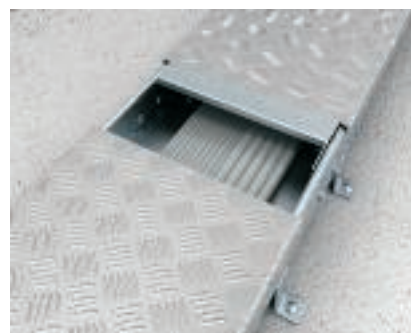
Straight connection

Creation of a straight cable tray connection using the combined straight connector / cover support, type RVS.



Installation of cover support

Insertion of the cover support, type RVS, on the straight connectors after cable routing.



Installation of cover support

Installation of an additional cover support in the centre of the cable tray for additional cover stabilisation from a width of 400 mm.



Barrier strip fastening

Installation of a barrier strip within the tray to separate cables and/or circuits and for additional cover stabilisation from a width of 400 mm.



Installation of bend

Bends of width 100 to 300 mm are pushed into the rail on the one side and over the connector on the other; standard connectors are required for widths 400 to 600 mm.



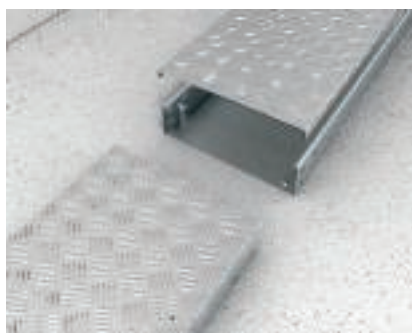
Installation of add-on tee

To install the add-on tee, type RAA, separate the cable tray rail and insert it in the add-on tee and screw it tight.



Cover mounting

Quick mounting of the cover through simple clipping on the cable tray.



Direct floor mounting

Installation of the walk-on cable tray system directly on the ground with nail tie, type FNA, or anchor bolt, type FAZ II.



Standoff

Floor stand-off of the walkable cable tray system with the stand-off bracket, type DBL.

Mounting aid, walk-on cable tray system



Mounting variant

Floor stand-off of the walkable cable tray system with special structure made of U supports. Mounting variant for possible installation of additional items beneath the cable tray.



Complete installation

Illustration of complete installation of the walkable cable tray system.



Mesh cable tray systems



Mounting aid, mesh cable tray GR-Magic	86
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Mounting aid, C mesh cable tray	93



Mounting aid, mesh cable tray system

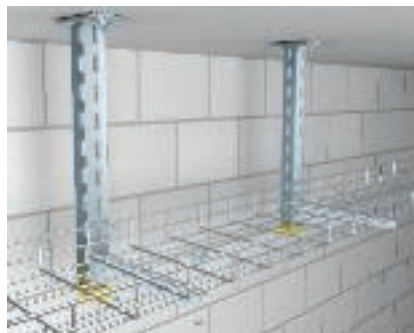


OBO Bettermann's mesh cable tray systems are the ideal basis for quick, safe and economical cable routing in all areas of professional electrical installations. The GR-Magic® mesh cable tray system with shaped connector for screwless quick mounting guarantees the shortest possible installa-

tion times, even for complex installation operations. The straight connectors are simply joined together – and you're done! The mesh cable trays are available with side heights of 35, 55 and 105 mm in the electro-galvanised "Titan look" version, hot-dip galvanised version and in

stainless steel. The comprehensive range of practical accessories, such as mesh cable tray bends, clamps, quick connectors, barrier strips, suspension profiles, brackets, etc. ensures that the product range is complete down to the smallest detail.

Mounting aid, mesh cable tray system



Ceiling mounting application

Installation of mesh cable tray with support, type US 3 K/... and appropriate wall and support bracket AW 15/...



Wall mounting of mesh cable trays

Wall mounting of mesh cable trays with wall bracket, type K 12 1818. Maximum mesh cable tray width 200 mm.



Floor/stand-off mounting application

Floor stand-off of mesh cable trays with the stand-off bracket, type DBLG 20/... Screwless fastening of the mesh cable tray on the stand-off bracket using clamping lugs.



Straight connection of Magic® mesh cable tray

Creation of a screwless straight connection of the mesh cable tray, type GR-Magic®, by interconnecting two stock lengths.



Straight connection of Magic® mesh cable tray

The permanent, stable connection is created by simple joining together.



Ceiling mounting with TP wall and ceiling bracket

Ceiling mounting of a mesh cable tray with TP wall and ceiling bracket, type TPDG. The mesh cable tray is fastened to the ceiling bracket without screws.



Ceiling mounting with TP support and bracket

Screwless mounting of a mesh cable tray on brackets of type TPSAG/...



Standoff of mesh cable trays

Floor stand-off of mesh cable trays with the stand off bracket, type DBLG 20/... Screwless fastening of the mesh cable tray on the stand off bracket using clamping lugs.



Screwed straight connection of mesh cable trays

Creation of a screwed straight connection of mesh cable trays with joint connectors, type GSV 34.



Mounting aid, mesh cable tray system



Screwless straight connection with quick connectors

Creation of a screwless straight connection of mesh cable trays using a quick connector, type GRV.



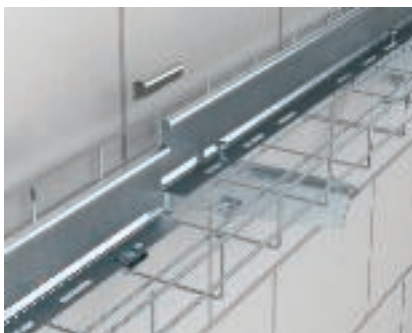
Screwless straight connection of mesh cable trays

Creation of a screwless straight connection of mesh cable trays with joint connectors, type GRS.



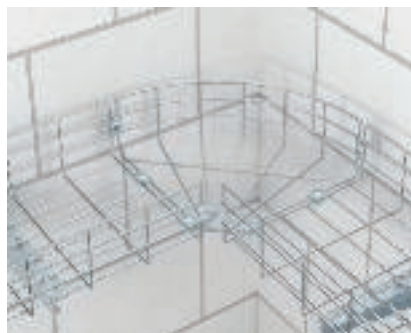
Screwless barrier strip fastening

Screwless fastening of a barrier strip in mesh cable trays with clamping piece, type KS GR. The screwless straight connection of the barrier strip is made using the barrier strip connector TSGV.



Screwed barrier strip fastening

Screwed fastening of a barrier strip in mesh cable trays with clamping piece, type GKT 38. The screwless straight connection of the barrier strip is made using the barrier strip connector TSGV.



Installation of a mesh cable tray bend

Installation of a mesh cable tray bend, type GRB 90, with joint connectors, type GSV 34, and corner connector, type GEV 36.



Installation of a mesh cable tray bend

Installation of a complete mesh cable tray bend using joint connectors, type GSV 34, and bent slotted steel strap.



Direct floor fastening

Direct floor mounting of mesh cable trays using clamp, type GKS 50.



Centre suspension

Suspension of a mesh cable tray using threaded rod, type 2078, and central suspension hanger, type K12 1818. Use with widths of up to 200 mm.



Trapeze suspension

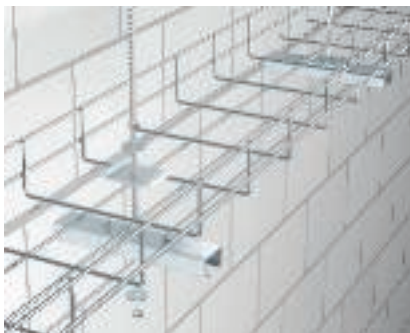
Suspension of a mesh cable tray using threaded rod, type 2078, and central suspension hanger, type K12 1818. Use with widths of 300 mm or more.

Mounting aid, mesh cable tray system



Wall mounting of mesh cable trays

Wall mounting of mesh cable trays with wall bracket, type K 12 1818. Maximum mesh cable tray width 200 mm.



Suspension with central suspension hanger

Suspension of a mesh cable tray with central suspension hanger, type GMS, and clamp, type GKS 50.



Suspension with side holder

Suspension of a mesh cable tray with side holders, type SH M 10 and threaded rods, type 2078/M10.



Side holder

Installation of the conduit take off bracket, type SH KAB, for accepting cable glands.



Mounting plate

Screwless quick fastening of the mounting plate, type MP UNI.



Identification plate

Installation of the identification plate, type KS-GR, in the side rail of the mesh cable tray.



Cover mounting

Mesh cable tray with cover, type DRLU. Cover fastening with cover clamp, type DKU, on the transverse wire of the mesh cable tray.



Vertical mesh cable tray installation

Vertical mesh cable tray mounting, fixed with beam clamp, type BFK, and clamp, type GKS 50, to steel girder.



Installation of mesh angle

Fastening of the mesh angle, type GW 40/80, to steel girders using beam clamps, type KL 20 or KL 30.



Creation of a mesh cable tray bend – round, overlapping

After appropriate cutting of the mesh cable trays, they can, together with joint connectors, type GSV 34, and an overlapping bent slotted steel strap, be combined to a round mesh cable tray bend.



Creation of a mesh cable tray bend – angular

After appropriate cutting of the mesh cable trays, they can, together with joint connectors, type GSV 34, and a bent slotted steel strap, be combined to a non-overlapping, angular mesh cable tray bend.



Creation of a mesh cable tray bend - round

Cutting out every second grid allows the creation of mesh cable tray bends with a larger radius. Fixing takes place using corner connectors, type GEV 36.





Mounting aid, mesh cable tray system



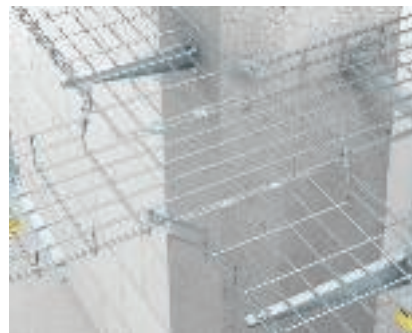
Rising and falling bends

Rising and falling vertical bends can be created by cutting every second grid in the side rail of the mesh cable tray.



Creation of a mesh cable tray tee

After cutting the side rails and bending the straps, the corner connector, type GEV 36, and the joint connector, type GSV 34, can be used to create tees.



Creation of a mesh cable tray cross-over

After cutting the side rails and bending the straps, the corner connector, type GEV 36, and the joint connector, type GSV 34, can be used to create cross-overs.



Creation of a vertical exit

After cutting the mesh cable tray base, the vertically branching, cut mesh cable tray can be fixed using the joint connector, type GSV 34.



Creation of a reduction

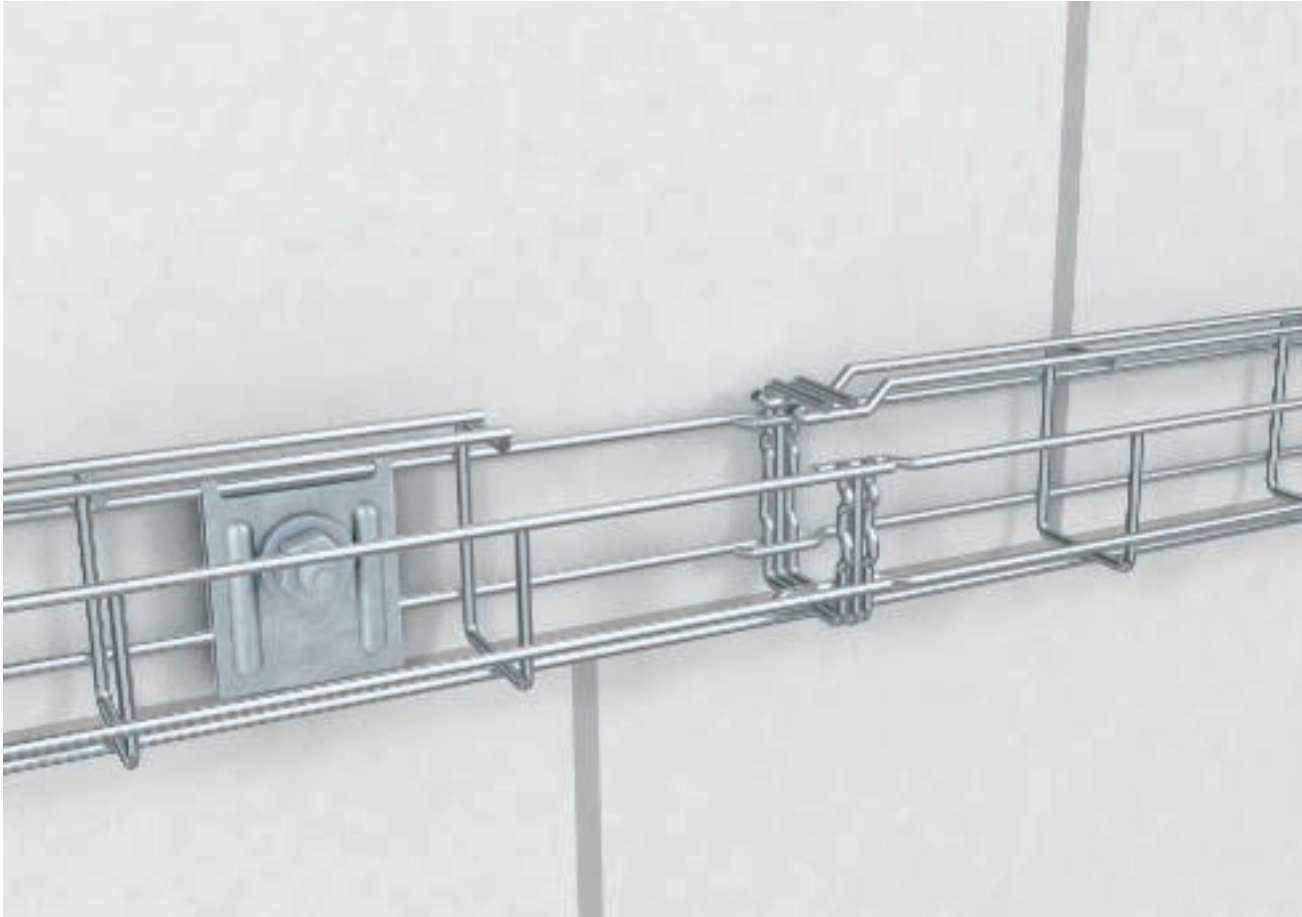
Reductions are possible by single-sided cutting of the different mesh cable tray widths, bending the flaps in the required direction and using the corner connectors, type GEV 36, and the joint connector, type GSV 34.



View of a complete installation

Illustration of complete mesh cable tray mounting.

Mounting aid, G mesh cable tray



The Magic G mesh cable tray is the ideal extension of the Magic solutions for the OBO Bettermann mesh cable tray systems. The quick Magic connection means that a screwless and

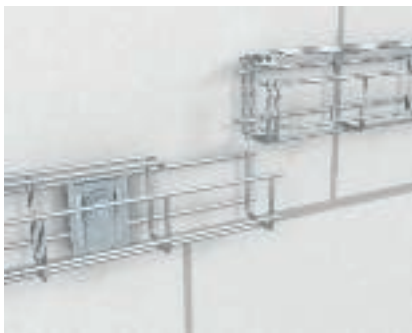
easy-to-mount variant is now offered for the G mesh cable tray system as well. Even in false ceiling mounting, it is an ideal alternative to save space through direct wall or ceil-

ing mounting. The Magic G mesh cable tray is available in four sizes and three surfaces, thus offering ideal solutions for all kinds of tasks.



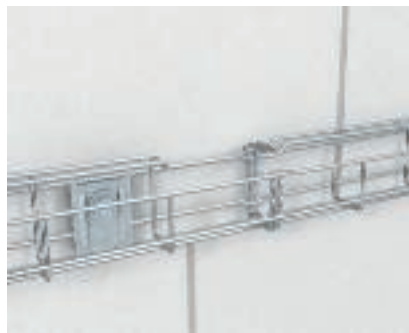


Mounting aid, G mesh cable tray



Straight connection of G Magic mesh cable tray

Creation of a screwless straight connection of the G mesh cable tray, type G GR-Magic®, by interconnecting two stock lengths.



Straight connection of G Magic mesh cable tray

The permanent, stable connection is created by plug connection.



Direct ceiling mounting

Direct ceiling mounting of the G mesh cable tray Magic using the clamping piece GKS 50 or GKB 34. Dependent on the grid width.



Ceiling mounting with TP wall and ceiling bracket

Ceiling mounting of a G mesh cable tray with TP wall and ceiling bracket, type TPDG. The mesh cable tray is fastened to the ceiling bracket without screws.



Wall mounting of G mesh cable trays

Wall mounting of G mesh cable trays with wall bracket, type K 12 1818.

Mounting aid, C mesh cable tray



The C mesh cable tray system from OBO Bettermann can fulfil the highest requirements for load capacities and versatility. The constructive "C" shape increases stability, allowing support widths

of up to three metres. This system, with its 50 mm side height, together with the optimised accessories such as joint connectors, clamps, barrier strips, installation profiles, etc. is an ideal ad-

dition to the overall mesh cable tray system and is used in industry and in all other areas of professional electrical installations.





Mounting aid, C mesh cable tray



Stand-off with vertical bend application

Installation of a vertical bend using installation profiles, type MW, for stood-off C mesh cable trays.



Wall mounting application

Wall mounting of C mesh cable trays and 90° bend.



Vertical bend application

Vertical bend mounting with 90° installation profile.



Straight connection of C mesh cable tray

Creation of a straight connection on C mesh cable trays with the joint connector, type GSV 34.



Vertical bends

Implementation of a vertical bend for C mesh cable trays using the installation profile, type MW 90/SL....



Horizontal bends

Implementation of a horizontal bend for C mesh cable trays with corner connector, type GEV 36.



Complete installation

Illustration of complete C mesh cable tray mounting.

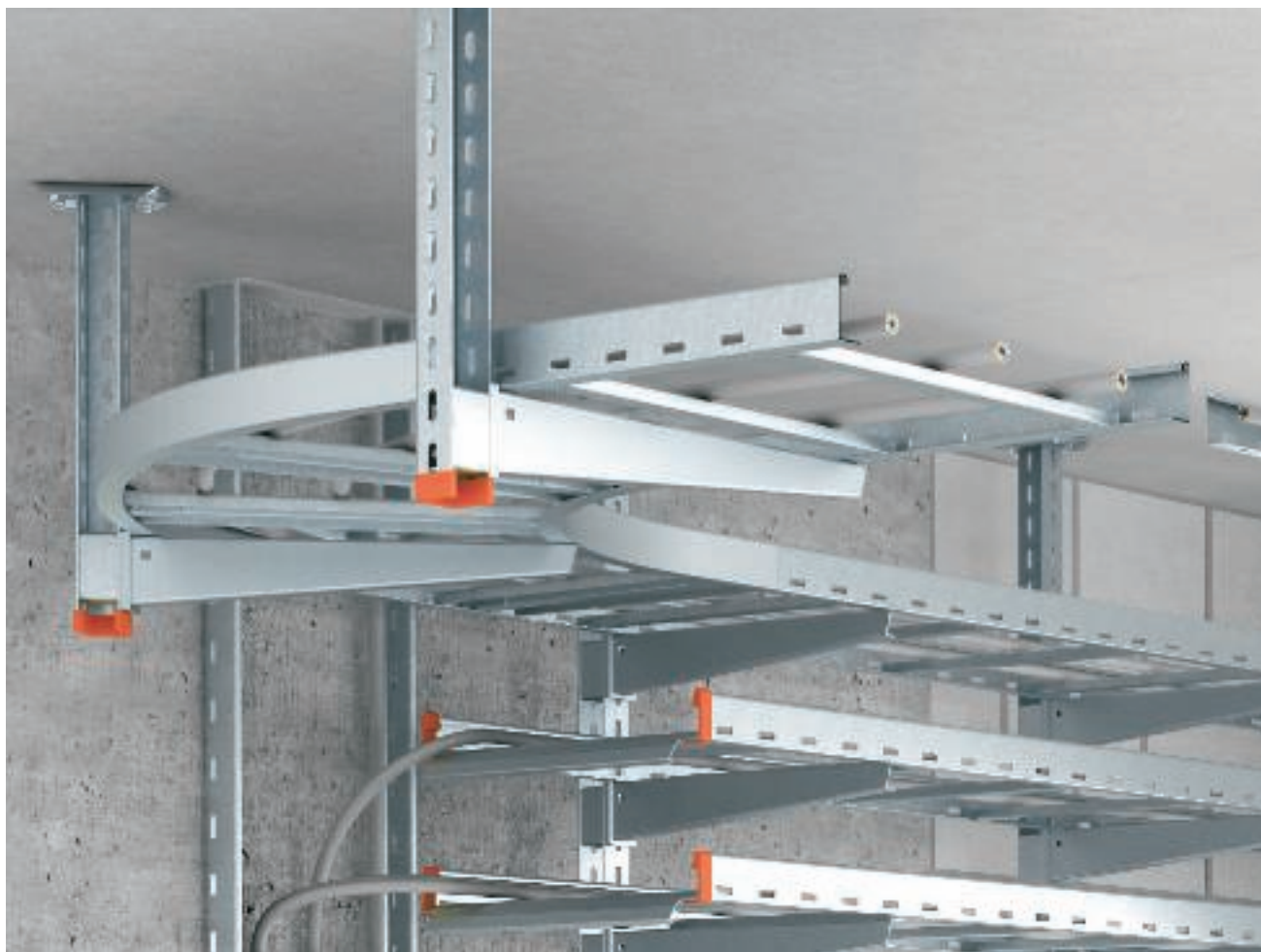




Mounting aid, cable ladder systems



Mounting aid, cable ladder system



The high load capacity and good ventilation of the OBO cable ladder systems can offer tangible benefits, in particular during the installation of power cables. OBO Bettermann's cable ladder systems can be used universally and, due to the continuous rail and rung perforation, can offer countless installation benefits. A

factor guaranteeing easy mounting is the option of integrated fastening of cables using OBO U clamps to the rungs, which are available in various different versions. OBO cable ladder systems are shipped folded up, thus saving space during transport and storage. OBO cable ladder systems can be supplied in lengths

of 3 m and 6 m, in all standard widths from 200 to 600 mm and width rail heights of 45, 60 and 110 mm. On the following pages, you can select your preferred installation variant from the installation diagrams shown and then combine the corresponding articles in the order section.

Mounting aid, cable ladder system



Support and threaded rod suspension application

Example of installing cable ladders with supports of U profiles and threaded rod suspension.



Jump application

Implementation of vertical jumps with adjustable connectors, e.g. for ceiling joists.



Threaded rod suspension application

Suspension of a cable ladder with threaded rods and U supports as a cross-section.



Support suspension

Suspension of a cable ladder with supports and support brackets.



Straight connection of cable ladders

Straight connection of cable ladder with straight connector, type LVG.



Horizontal angle connection of cable ladders

Horizontal angle connection with straight and angle connectors, type LWVG.



Vertical angle connection of cable ladders

Creation of a vertical angle connection using adjustable connectors, type LGVG.



Installation of falling adjustable vertical bend

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



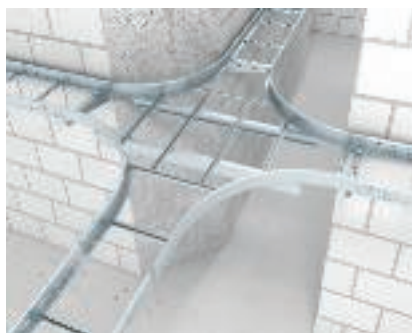
Installation of a cable ladder bend

Connection of the cable ladder with the bend, type LBI 90. Additional supports should be planned for the area of the fittings.



Installation of a tee

Installation of a tee, type LT, to create a vertical exit. Additional supports should be planned for the area of the fittings.



Installation of an cross-over

Installation of an cross-over, type LK, for the creation of two exits. Additional supports should be planned for the area of the fittings.



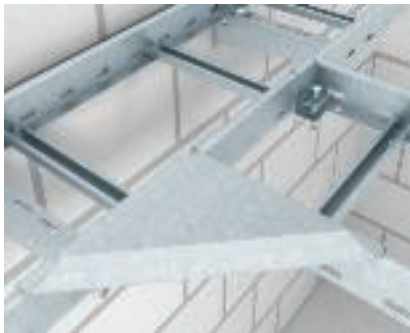
Installation of tee

Creation of a horizontal tee exit of two cable ladders at different heights. The support angle, type LAW, is required to fix two cable ladders.





Mounting aid, cable ladder system



Tee with corner plates

Creation of horizontal tees for cable ladders running at the same height. To increase the cable supporting surface, use corner plates of type LEB. Additional supports should be planned for the area of the exits.



Tee with support plate

Creation of horizontal tees for cable ladders running at the same height. To increase the cable supporting surface and to protect the cables, use support plates, type LALB. Additional supports should be planned for the area of the exits.



Vertical exit on support/bracket

Installation of a vertical exit in the area of the support/bracket. Fasten the cable ladder using the support, type LAL 70.



Vertical cable exit

The drop-out plate, type LAB, is used to increase the cable supporting surface for vertically exiting cables and as cable protection.



Screwless barrier strip fastening

Screwless fastening a barrier strip in cable ladders with clamping piece, type KS KL.



Screwless barrier strip fastening

Screwless mounting of the TSG barrier strip through the perforated rung of the cable ladders.



Straight barrier strip connection

Screwless straight connection of barrier strips in cable ladders using the barrier strip TSGV.



Cable ladder centre suspension with U profile

Installation of a cable ladder with central suspension hanger MAHU and a U support.



Cable ladder centre suspension with threaded rod

Installation of a cable ladder with central suspension hanger MAHU and a threaded rod.



Installation of insert plate

Installation of insert plates, type ELB-L.

Mounting aid, cable ladder system



Cover mounting

Positioning and fastening of the cover on the cable ladder using turn-buckle, type DRL.



Cable ladder as-delivered state

All cable ladders are supplied folded up.



Complete installation

Illustration of complete cable ladder mounting.



Wide span systems



Mounting aid, wide span cable ladder systems	104
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Mounting aid, wide span cable ladder systems



When you need to bridge wide spans and support high cable loads, the OBO wide span systems are the perfect solution. The product range comprises cable trays and cable ladders, in widths of 200 to 600 mm and side heights of 110 to 200 mm. A comprehensive range of accesso-

ries such as fittings and fastening material is particularly suited for fastening to concrete and steel framework. OBO wide span systems have proved their worth in many areas of industrial and plant construction. These systems are becoming ever more popular in buildings with steel framework.

OBO wide span systems are the complete product range for all applications and requirements and, with their large load capacity combined with large spans, can provide efficient and optimised power supplies.

Mounting aid, wide span cable ladder systems



Wide span fittings application

Mounting examples for horizontal and vertical changes of direction for wide span systems.



Wall mounting application

Direct wall mounting of wide span systems



Girder clamping application

Mounting of a wide span system clamped to steel girders.



Horizontal wide span angle connection

Horizontal angle connection of wide span cable ladders with angle connectors, type WRWVK.



Vertical wide span adjustable connection

Vertical angle connection of wide span cable ladders with adjustable connectors, type WRGV.



Fastening of wide span cable ladder

Fastening of wide span cable ladders to the bracket using clamp, type LKS 60/5.



Installation of 90° bend

Bend in combination with wide span cable ladder. The bend is connected to the wide span cable ladder using external connectors.



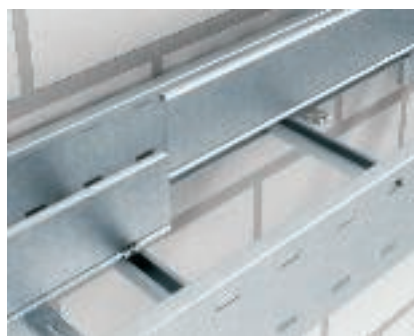
Installation of tee

Tee in conjunction with wide span cable ladder. The tee is connected to the wide span cable ladder using external connectors.



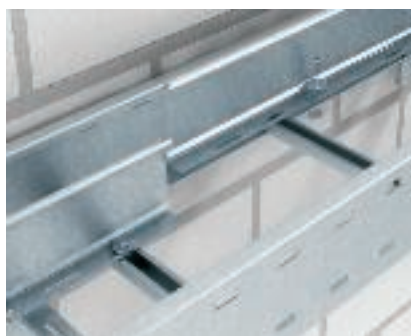
Installation of cross-over

Cross-over in combination with wide span cable ladder. The cross-over is connected to the wide span cable ladder using external connectors.



Screwless barrier strip fastening

Screwless fastening a barrier strip in wide span cable trays and cable ladders with clamping piece, type KS KL.



Screwed barrier strip fastening

Barrier strip mounting in wide span cable ladders. Fasten using slide nuts and hexagonal bolts.



Straight barrier strip connection

Screwless straight connection of barrier strips in wide span cable trays and cable ladders using the barrier strip TSGV.



Mounting aid, wide span cable ladder systems



Cover mounting

Installation of covers with turn-buckles.



Suspended construction, concrete

Suspension suitable for wide span system in concrete with IS 8 support and anchor bolts.



Suspended construction, steel

Suspension suitable for wide span system with IS 8 support, clamped to steel girder.



Wall bracket, heavy duty

Installation of the heavy-duty wall bracket, type AWSS, with clamping angle, type KWS, to steel girder to accept a wide span system. The wall bracket can also be mounted on concrete walls with anchor bolts.



45° adapter plate

Installation of the 45° adapter plate, type KA-E 45, on the steel girder using clamping angles, type KWS. The adapter plate can also be installed on concrete walls with anchor bolts.



Special structure

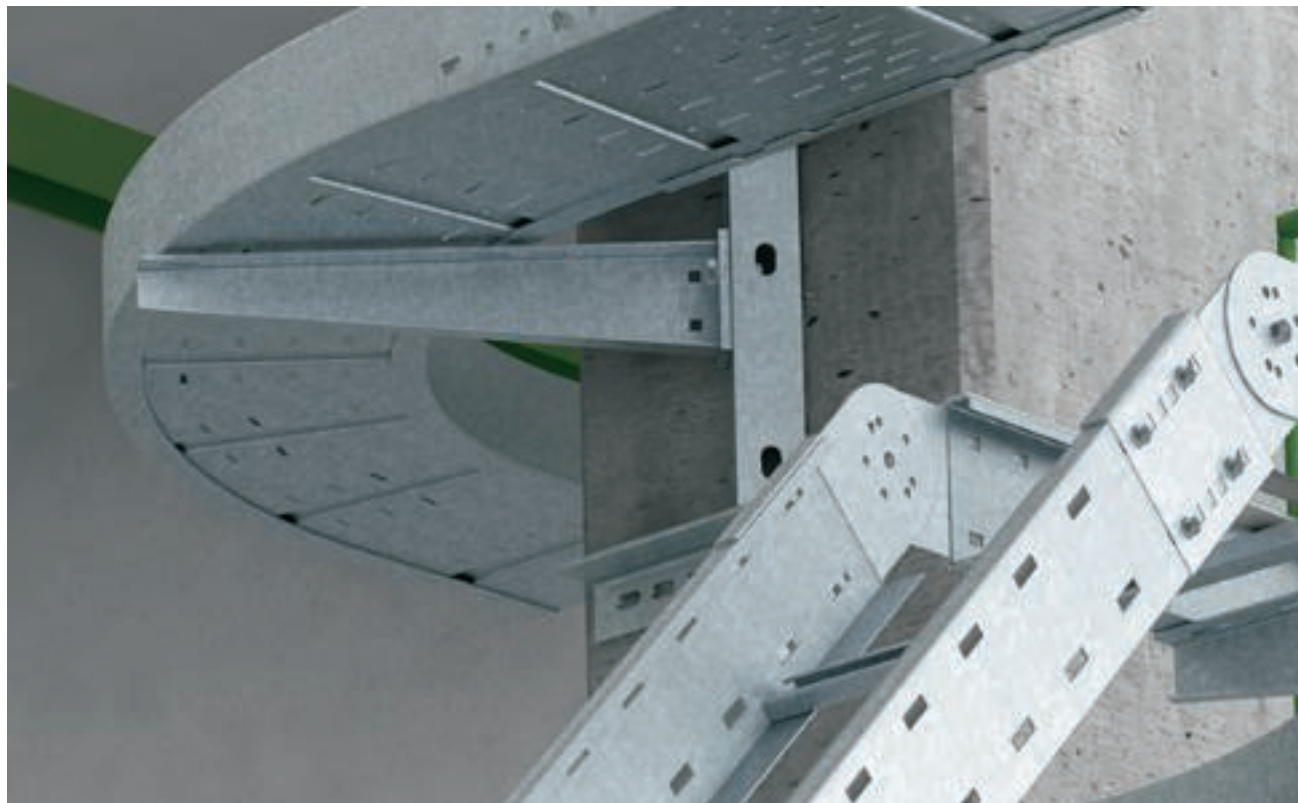
Special structure made of U supports for acceptance of a cable support system.



Mounting example

Double-sided support mounting of I profiles with transverse traverse. Fastening of a wide span cable ladder, type WKL 200, with clamp, type LKS 60/5, on the transverse profile.

Mounting aid, wide span cable tray systems



When you need to bridge wide spans and support high cable loads, the OBO wide span systems are the perfect solution. The product range comprises cable trays and cable ladders, in widths of 200 to 600 mm and side heights of 110 to 200 mm. A comprehensive range of accesso-

ries such as fittings and fastening material is particularly suited for fastening to concrete and steel framework. OBO wide span systems have proved their worth in many areas of industrial and plant construction. These systems are becoming ever more popular in buildings with steel framework.

OBO wide span systems are the complete product range for all applications and requirements and, with their large load capacity combined with large spans, can provide efficient and optimised power supplies.



Mounting aid, wide span cable tray systems



Wall mounting application

Direct wall mounting of wide span systems



Wide span straight connection

Horizontal straight connection of wide span cable trays with straight connector set, type WRVL.



Installation of 90° bend

Bend in combination with wide span cable trays. The bend is connected to the wide span cable tray using external connectors and a joint plate.



Creation of a tee with add-on corner

Removal of the side rails from the wide span tray.



Creation of a tee with add-on corner

Installation of the first add-on corner, type WEAS 110.



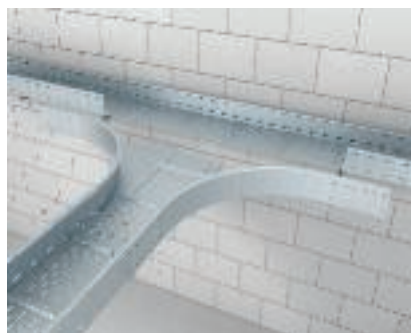
Creation of a tee with add-on corner

Installation of the second add-on corner, type WEAS 110.



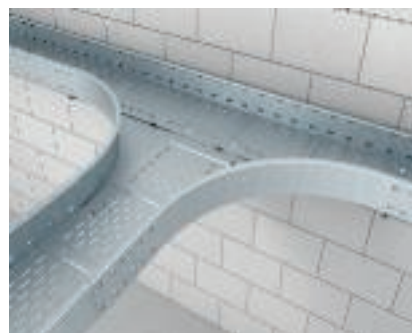
Creation of a tee with add-on corner

Removal of the side rail from the ongoing wide span tray.



Creation of a tee with add-on corner

Installation of the finished branch to the ongoing wide span tray.



Creation of a tee with add-on corner

Complete installation of a branch with add-on corner of type WEAS 110.



Installation of add-on tee

Add-on tee in combination with wide span cable tray. The side rail is removed for installation.



Screwless barrier strip fastening

Screwless fastening a barrier strip in wide span cable trays and cable ladders with clamping piece, type KS KL.



Straight barrier strip connection

Screwless straight connection of barrier strips in wide span cable trays and cable ladders using the barrier strip TSGV.

Mounting aid, wide span cable tray systems



Suspended construction, concrete

Suspension suitable for wide span system in concrete with IS 8 support and anchor bolts.



Suspended construction, steel

Suspension suitable for wide span system with IS 8 support, clamped to steel girder.



Special structure

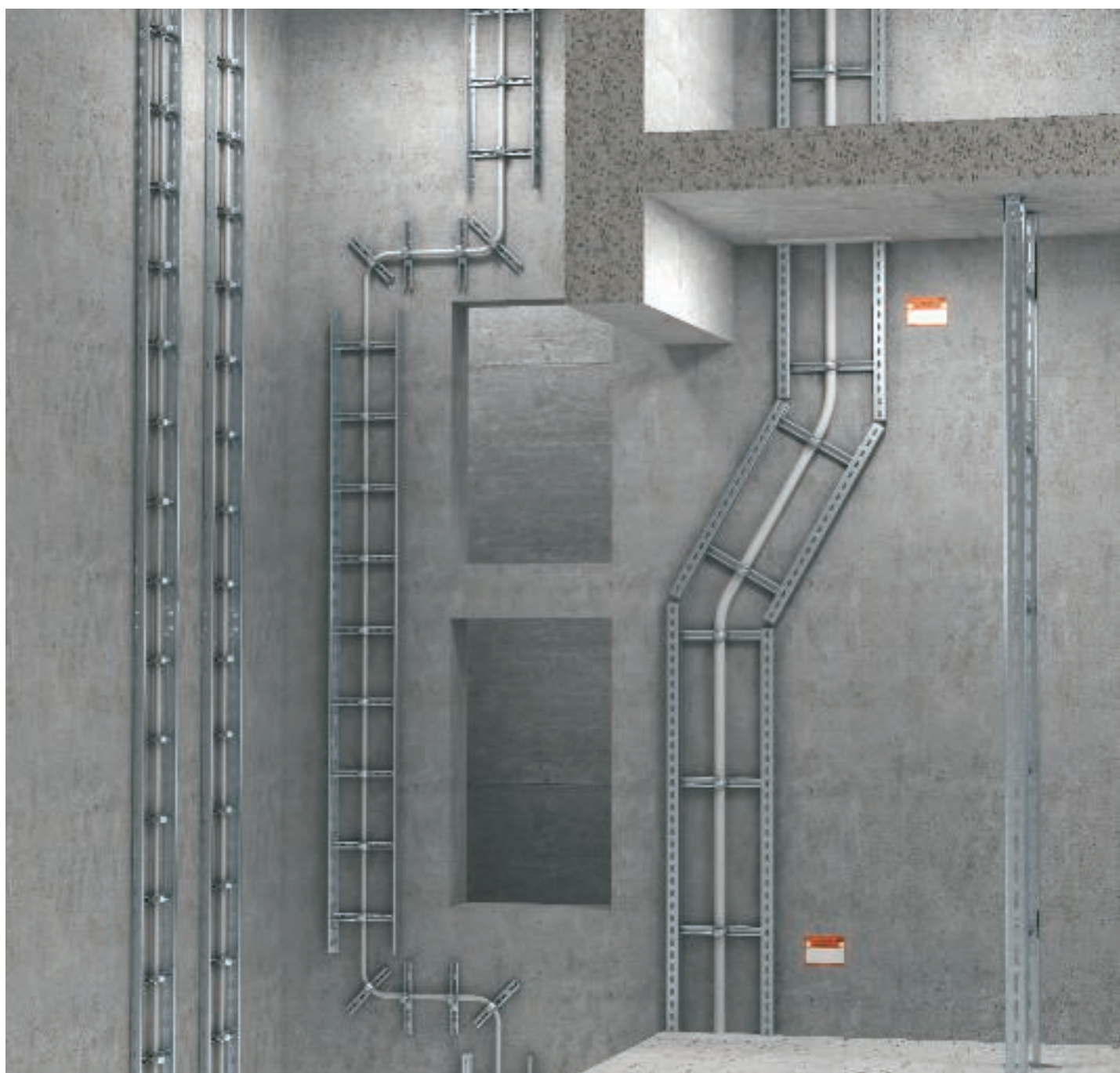
Special structure made of U supports for acceptance of a cable support system.



Mounting example

Double-sided support mounting of U profiles with transverse traverse. Fastening of a wide span cable tray, type WKSG 110, with truss-head bolts on the transverse profile.







Mounting aid, vertical ladder systems

Mounting aid, vertical ladder systems



OBO vertical ladder systems for vertical routing of all kinds of cables. Available as light-duty and medium-duty vertical ladders with a side height of 60 mm, as a heavy-duty vertical ladder with U supports and industrial vertical ladders with I supports. Both the

heavy-duty and industrial vertical ladder can be assembled in lengths different to that of the stock length. The side rails are U supports and I supports, which are connected using the appropriate rungs. The continuous rail perforation of the system and the

comprehensive accessories simplify and accelerate installation, which can take place either directly on the wall, clamped to a steel construction or also as a freestanding construction. In addition, there is the perfect interplay with OBO U clamps.

Mounting aid, vertical ladder systems



Wall mounting application

Wall mounting of a vertical ladder with mounting angles.



Change of direction application

Implementation of a change of direction with heavy-duty vertical ladder, type SLM.



Free-standing vertical ladder application

Mounting example for free-standing industrial vertical ladders, type SLS, fastened to the ceiling and floor.



Straight connection of vertical ladders

Connection of vertical ladders, types LG and SSL 60, with connectors, type LVG.



Angle connection of cable ladders

Creation of flexible vertical ladder angles with angle connector, type LWVG.



Adjustable connection of cable ladders

Creation of flexible vertical ladder angles with adjustable connector, type LGVG.



Cover mounting, vertical

Installation of the cover with spacer on a vertical ladder.



Illustration of vertical shaft

Illustration of complete vertical ladder mounting.



Direct wall mounting

Direct fastening of the vertical ladders LG and SSL with anchor bolts on the wall.



Wall mounting, light-duty vertical ladder

Wall mounting of light-duty vertical ladder, type SLL 45, with wall bracket, type WB 30/75.



Wall mounting, heavy-duty vertical ladder

Wall mounting of heavy-duty vertical ladder, type SLM 50, with mounting angle, type BW.



Vertical ladder installation on steel

Installation of the heavy-duty vertical ladder, type SLM 50, with cantilever beam made of U profile, on a steel construction.

Mounting aid, vertical ladder systems



Cable fastening with U clamp

Fastening of a cable to the rung with U clamp.



Fastening of industrial vertical ladder

Industrial vertical ladders are fastened to steel girders using mounting angle, type BW80/55.



Fastening of C profile rung

Fastening of C profile rung, type CK 40, in industrial vertical ladders, type SLS 80.



Fastening of angle rung

Fastening of the angle rung, type WSK 40, in industrial vertical ladders, type SLS 80.



Ceiling fastening

Fastening of a industrial vertical ladder, type SLS 80, to the ceiling using mounting angle, type BW.



I support fastening on steel girder

Fastening of industrial vertical ladders, type SLS 80, to steel girders using support claw, type TGK 30/42.



Installation of free-standing vertical ladder

Free-standing installation of cable ladders in a room using mounting angle of type BW or head plates, type KUS 5 (for heavy-duty vertical ladders of type SLM 50), or type KI 8 (for industrial ladders, type SLS 80).



Rung seat fixed to IS 8 support

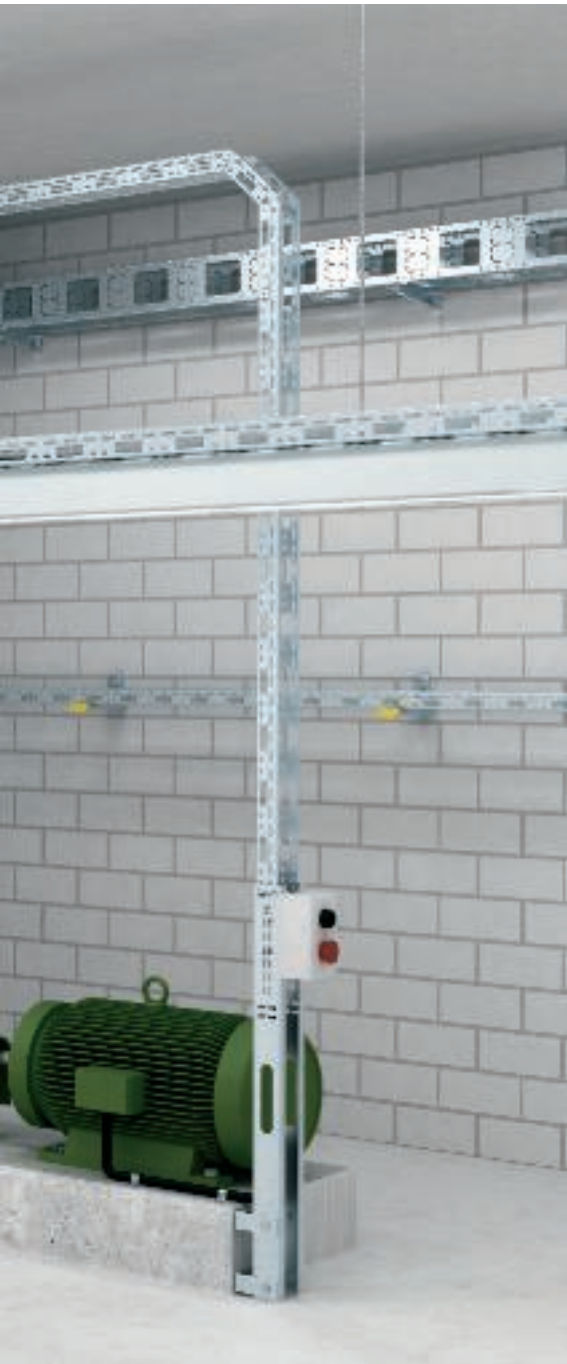
Fastening of the rung seat, type SA, with profile rail, type CPS 4, in I support.



Rung seat fixed to steel girder

Direct fastening (clamping) of the rung seat, type SAA, with profile rail, type CPS 4, on steel girder.





Mounting aid, luminaire support systems



OBO luminaire support systems simplify the installation of light systems in many areas of industry and buildings, but can also be used for flexible power and data supplies to machines and work-

stations – whether in industry, purpose-built buildings or in buildings with an attractive appearance. With the OBO luminaire support system, cable routing and the optimum positioning of lights

is child's play in any application. A pre-wired system can be created very easily with the GST 18 connection system.

Mounting aid, luminaire support systems



Luminaire support tray application

Suspension of the luminaire support tray with chain and suspension bracket.



Luminaire support tray application

Suspension of a luminaire support tray with central suspension hanger MAH and threaded rod.



Luminaire support tray application, colour-coated

Optically attractive installation in open areas with colour-coated luminaire support systems.



Straight connection of luminaire support tray

Horizontal straight connection of the luminaire support tray, type LTR with straight connector set, type RV 607.



Straight connection of luminaire support tray

Horizontal straight connection of the luminaire support tray, type LTS with straight and angle connector, type VF AZK.



Horizontal angle connection

Horizontal angle connection of the luminaire support tray, type LTS with straight and angle connector, type VF AZK.



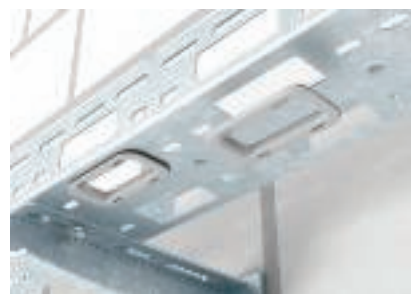
Vertical straight connection

Vertical straight connection of the luminaire support tray, type LTS, with two straight and angle connectors, type VF AZK.



Side rail cable protection ring

Insertion of the cable protection rings, type KSR 910, in the side rail of the luminaire support tray.



Bottom cable protection ring

Insertion of the cable protection rings, type KSR 915, in the bottom of the luminaire support tray.



Chain suspension

Implementation of a chain suspension for luminaire support systems with anchor, ceiling hook, type 948/TG6 and chain, type LTK-K.



Centre suspension

Efficient creation of centre suspensions. The luminaire support tray is fastened to the central suspension hanger without bolts.



Pre-wired luminaire supports

Mounting of a pre-terminated luminaire beneath a luminaire support tray.



Mounting aid, luminaire support systems



Mounting of luminaire support fitting

Mounting of luminaire support fitting by simple interconnection of fitting and luminaire support tray.



Cover mounting for luminaire support tray fittings

When mounting the covers, mount the fitting covers first and then straight covers. The straight covers overlap the fitting covers, securing them.

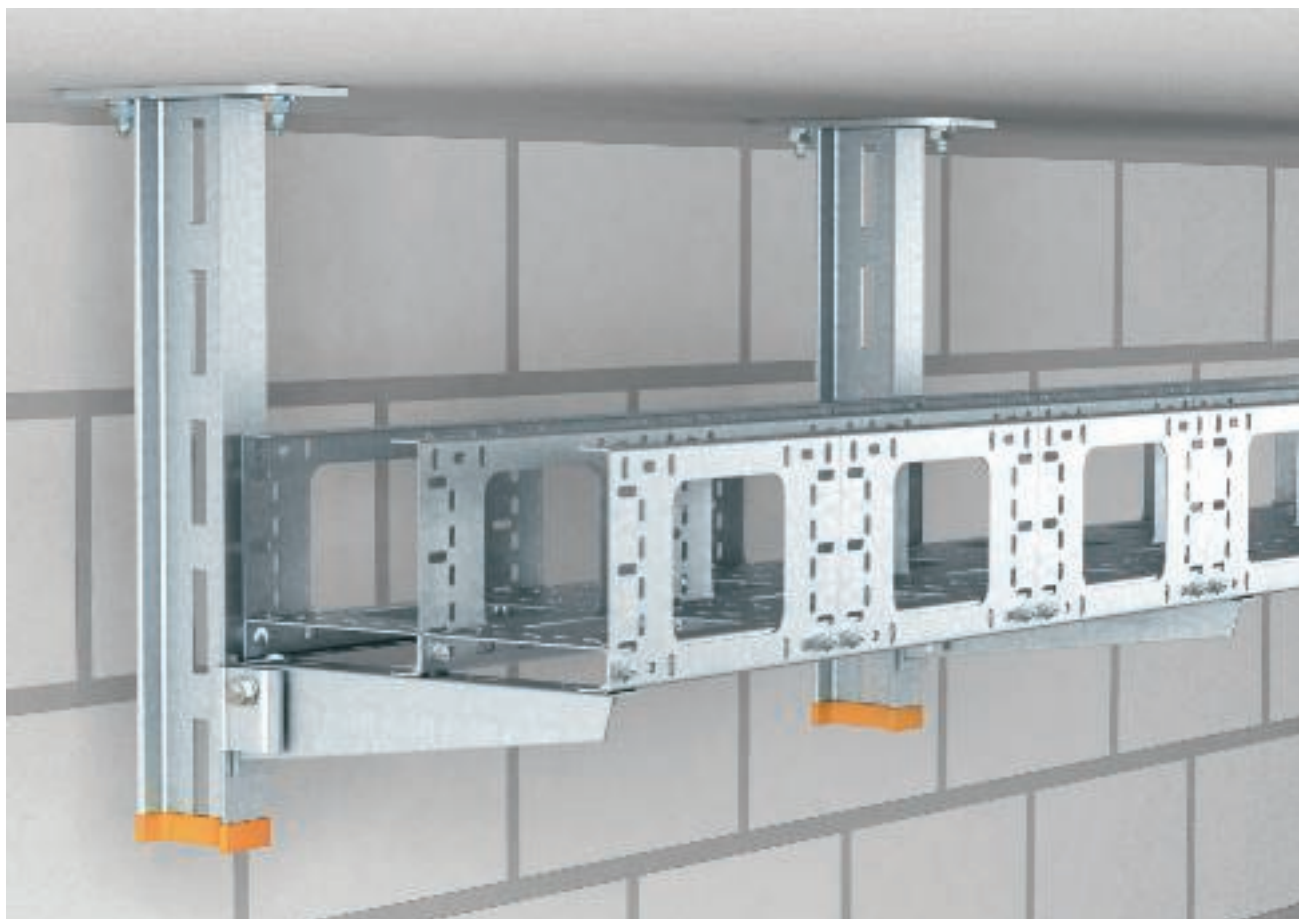




Mounting aid, AZ small duct



Mounting aid, modular systems



The modular systems: the product range with infinite opportunities. Exiting branches to individual consumers can be implemented with the AZ channel. The BKK system can be used as a cable

link in chemical plants, where large distances and high cable loads must be bridged safely with some fairly large support spacings. Electrical drives, such as motors, etc. are connected us-

ing the motor connection column. Thus the modular system, together with the individually combinable range of accessories, is the universal solution to any task.



Mounting aid, modular systems



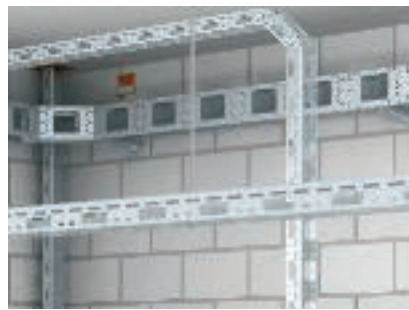
BKK system application

Installation of the BKK system under the ceiling using IS 8 supports.



Motor connection column application

Coupling of electric drives to the motor connection column.



AZ channel application

Example of installing the AZ channel as a suspension with threaded rod and the implementation of horizontal-vertical transitions.



Straight connection of AZ channel

Straight connection of AZ channel with connectors of type VF AZK.



90° angle connection

Angle connection of AZ channels with connectors of type VF AZK.



Vertical straight connection

Vertical angle connection of AZ channels with two connectors of type VF AZK.



90° vertical bend, falling

Installation of a falling vertical bend with adjustable connectors, type SV.



90° vertical bend, rising

Installation of a rising vertical bend with adjustable connectors, type SV.



Side rail cable protection ring

Insertion of the cable protection rings, type KSR-DR 910, in the side rail of the AZ channel.



Bottom cable protection ring

Insertion of the cable protection rings, type KSR 915, in the bottom of the AZ channel.



Cover fastening

Installation of the cover, type AZDMD, on an AZ channel.



Installation of motor connection column with column foot

Fastening of the motor connection column, type MAS 140/10, to the floor using column foot, type SF 140/11.



Mounting aid, modular systems



Installation of motor connection column with mounting bracket

Fastening of the motor connection column, type MAS 140/10, to the wall using mounting brackets, type BF 140/10.



Cover fastening

Fastening of the cover, type MASD 90, to the motor connection column.



Device plate mounting

Installation of the device plate, type GP, to the motor connection column.



Joint connection

Connection of straight joints in the BKK system using the joint connector, type SSV.



Installation of basic profile

Installation of the basic profile in the BKK system.



BKK straight fastening variant

Possible mounting variant of BKK profiles with straight joint.



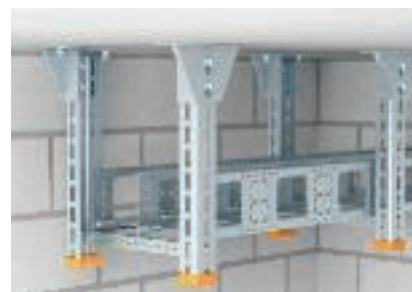
BKK offset fastening variant

Possible mounting variant of BKK profiles with offset joint. This mounting variant provides increased joint stability.



Angle connection

Simple bend creation with hinge connectors, type SV. For this, the side rails must be cut.



Mounting example

Example of U support installation with transverse profile and modular system.



Complete installation

Illustration of complete modular system mounting.





Mounting aid, stainless steel systems



The requirements placed on cable support systems are continually increasing. Rust-proof stainless steel cable support systems are used ever more frequently in various areas of application, such as the food and chemical industri-

es. Today, tunnel construction also requires the use of such systems. OBO Bettermann can offer perfect solutions for any requirements. Whether cable trays, cable ladders or mesh cable trays, in combination with the right mount-

ing systems, the complete product ranges can offer professional implementation of any task. Special surface and material designs can offer perfect corrosion protection.



Mounting aid, stainless steel systems



Central suspension with threaded rod

Cover fastening with threaded rod and central suspension for small loads.



Wall mounting

Direct fastening of wall and support brackets of type AW... on the wall.



Ceiling mounting

Standard mounting of U supports US 3 K, US 5 K and US 7 K on the ceiling.



Complete mounting of a ceiling fastening

Illustration of complete ceiling mounting with cable trays.



Mesh cable tray mounting

Mesh cable tray mounting with support, type US 3 K/... and appropriate wall and support bracket AW 15/...



Jump application

Implementation of vertical jumps with articulated connectors, e.g. for ceiling joists.



Wall mounting application

Direct wall mounting of wide span systems



Wide span fittings application

Mounting example for horizontal and vertical changes of direction for wide span systems.



Luminaire support rail application

Suspension of the luminaire support tray with chain and suspension clamp.



Complete mounting of a cable tray system

Illustration of a multi-layer cable tray system mounted on the ceiling.



Test marks

	Verband der Elektrotechnik, Elektronik, Informationstechnik e.V., Germany
	FIMKO, Finland
	KEMA-KEUR, Netherlands
	Österreichischer Verband für Elektrotechnik, Austria
	Eidgenössisches Starkstrominspektorat, Switzerland
	NEMKO, Norway
	SEMKO An Inchcape Testing Services Company, Sweden
	Indication of metric products
	DEMKO, Danmarks Elektriske Materielkontrol, Denmark
	Sähkötekniikan tutkimuskeskus Elinspektioscentralen Electrical Inspectorate, Finland
	Underwriters Laboratories Inc., USA
	Underwriters Laboratories Inc., USA
	Canadian Standards Association, Canada
	CEBEC, Belgium
	STOWARZYSZENIE ELEKTRYKÓW POLSKICH, Poland
	Forschungs- und Materialprüfungsanstalt, Germany
	Shock-tested, Bundesamt für Zivilschutz, Germany
	MAGYAR ELEKTROTECHNIKAI ELLENŐRZŐ INTÉZET Budapest, Hungary
DIBt	Deutsches Institut für Bautechnik Berlin, Germany
	ELEKTROTECHNICKÝ ZKUŠEBNÍ ÚSTAV, Czech Republic
	Test marks for technical resources, VDE Prüf- und Zertifizierungsinstitut Offenbach, Germany



Pictogram explanation

Fire protection

	Resistance time in minutes of the installation system during a fire
	Resistance time in minutes of the installation system during a fire

Materials

	Flat steel
	Angular steel
	U steel

Materials

	Aluminium
	Stainless steel, 1.4113
	Stainless steel, 1.4301
	Stainless steel, 1.4301
	Stainless steel, 1.4310
	Stainless steel, 1.4401
	Stainless steel, 1.4404
	Stainless steel, 1.4435
	Stainless steel, 1.4529
	Stainless steel, 1.4571
	Steel

Surfaces

	Hot-dip galvanised
	Electro-galvanised, yellow-chromated
	Zinc-aluminium coated, double-dip
	Strip-galvanised
	Electro-galvanised
	Primed
	Hot-dip galvanised
	Zinc-aluminium coated, Galfan

Miscellaneous

	BET-tested to DIN EN 61537
	Halogen-free; without chlorine, fluorine and bromine
	Magnetic shield insulation
	Easy mounting component



Metal materials

Alu — Aluminium

VA (1.4113) — Stainless steel, 1.4113

Material no 1.4113

VA (1.4301) — Stainless steel, 1.4301

VA (1.4303) — Stainless steel, 1.4301

Material no. 1.4303

VA (1.4310) — Stainless steel, 1.4310

VA (1.4401) — Stainless steel, 1.4401

VA (1.4404) — Stainless steel, 1.4404

VA (1.4435) — Stainless steel, 1.4435

VA (1.4529) — Stainless steel, 1.4529

VA (1.4571) — Stainless steel, 1.4571

St — Steel

Zn — Die-cast zinc



Plastic materials

CR — Chloroprene rubber

Temperature resistance:
permanently up to 120 °C, briefly up to approx. 150 °C and to approx. minus 30 °C*.

Resistant to

Oils and acids.

Unstable with

Fuels.

FA — Fibre sealing material

To DIN 28091, asbestos-free

Temperature resistance:
up to 300 °C.

GFK — Fibre-glass reinforced plastic GFK

Temperature resistance:
-50 to 130 °C.

Resistant to

High chemical resistance

Corrosion resistance

UV light resistance

NR — Natural rubber

Temperature resistance:
permanently up to 80 °C, briefly up to approx. 120 °C and to approx. minus 40 °C*.

Resistant to

Most acids.

Unstable with

Fuels, solvents, oils.

PA — Polyamide

Temperature resistance:
permanently up to approx. 90 °C, briefly up to about 130 °C
and to about minus 40 °C*.
Chem. resistance generally as for polyethylene.

Resistant to

Petrol, benzene, diesel oil, acetone, solvents for paints and lacquers, oils and greases.

Unstable with

Bleach, most acids, chlorine.

Risk of tension cracking

Low in air-humid conditions; only with some aqueous salt solutions.
Highly desiccated parts (high temperature and extremely low air humidity) are highly sensitive to fuels and various solvents.

PA/GF — Polyamide, fibreglass reinforced

Temperature resistance:
permanently up to 100–110 °C, briefly up to 160 °C
and to about minus 40 °C*.

Resistant to

Petrol, benzene, diesel oil, acetone, solvents for paints and lacquers, oils and greases.

Slightly susceptible to stress-cracking.

Unstable with

Bleach, most acids, chlorine.

Risk of tension cracking

Low in air-humid conditions; only with some aqueous salt solutions.
Highly desiccated parts (high temperature and extremely low air humidity) are highly sensitive to fuels and various solvents.

PC — Polycarbonate

Temperature resistance:
permanently up to approx. 110 °C (in water 60 °C), briefly up to 125 °C,
and to below minus 35 °C.

Resistant to

Petrol, turpentine, most weak acids.

Unstable with

Acetone, benzene, chlorine, methylene chloride, most concentrated acids.

Risk of tension cracking

Relatively low.

Media which can cause tension cracking include benzene, aromatic hydrocarbons, methanol, butanol, acetone, terpentine.

POM — Polyacetal

Temperature resistance:
permanently up to approx. 100 °C, briefly up to approx. 130 °C and to approx. minus 40 °C.

Resistant to

Acetone, ether, petrol, weak acetic acid, benzene, heating oil, oils and greases, toluene.

Unstable with

Methylene chloride, trichloroethylene, hydrochloric acid, nitric acid, sulphuric acid.

Risk of tension cracking

Low.

PE — Polyethylene

Temperature resistance:
hard types permanently up to about 90 °C, briefly up to about 105 °C,
soft types permanently up to about 80 °C, briefly up to about 100 °C and to about minus 40 °C*.

Resistant to

Alkalis and inorganic acids.

Conditionally resistant to

Acetone, organic acids, petrol, benzene, diesel oil, most oils.

Unstable with

Chlorine, hydrocarbons, oxidising acids.

Risk of tension cracking

Relatively high.

Stress cracks can be caused by, among others, acetone, various alcohols, formic acid, ethanol, petrol, benzene, butyric acid, acetic acid, formaldehyde, various oils, petroleum, propanol, nitric acid, hydrochloric acid, sulphuric acid, soap solutions, turpentine, trichloroethylene, citric acid.

PBPT — Polybutylene terephthalate

Thermoplastic polyester

Temperature resistance:
permanently up to 120 °C, briefly up to 140 °C and to approx. minus 40 °C.

Resistant to

Petrol, diesel oil, most weak acids, oils and greases.

Conditionally resistant to

Acetone, ammonia, benzene.

Unstable with

Strong acids, chlorine, fluorine, bromine vapour, bleach, trichloroethylene, methylene chloride.

Risk of tension cracking

Low.

PC — Polystyrene

Temperature resistance:
Because of its relatively high sensitivity to the effects of chemicals, its use is not recommended at temperatures above normal room temperature, about 25 °C.
Resistance to cold: to about minus 40 °C*.

Resistant to

Alkalis, most acids, alcohol.

Conditionally resistant to

Oils and greases.

Unstable with

Butyric acid, concentrated nitric acid, concentrated acetic acid, acetone, ether, petrol and benzene, solvents for paints and lacquers, chlorine, diesel fuel.

Risk of tension cracking

Relatively high.

Stress cracks can be caused by, among other things, acetone, ether, petrol, cyclohexane, heptane, methanol, propanol and the softeners used in some PVC cable mixes.

PVC — Polyvinylchloride

Temperature resistance:
permanently up to 65 °C, briefly up to 75 °C and to about minus 30 °C.

Resistant to

Weak acids, alkalis, oils and greases, petrol.

Unstable with

Strong acids, benzene, acetone, iodine, toluene, trichloroethylene.

Risk of tension cracking

Low, only with some solvents such as benzene and acetone.



Plastic materials

SBR — Styrene-butadiene rubber

Temperature resistance:
permanently up to 80 °C, briefly up to approx. 120 °C and to approx. minus 30 °C*.

Resistant to

Most acids.

Unstable with

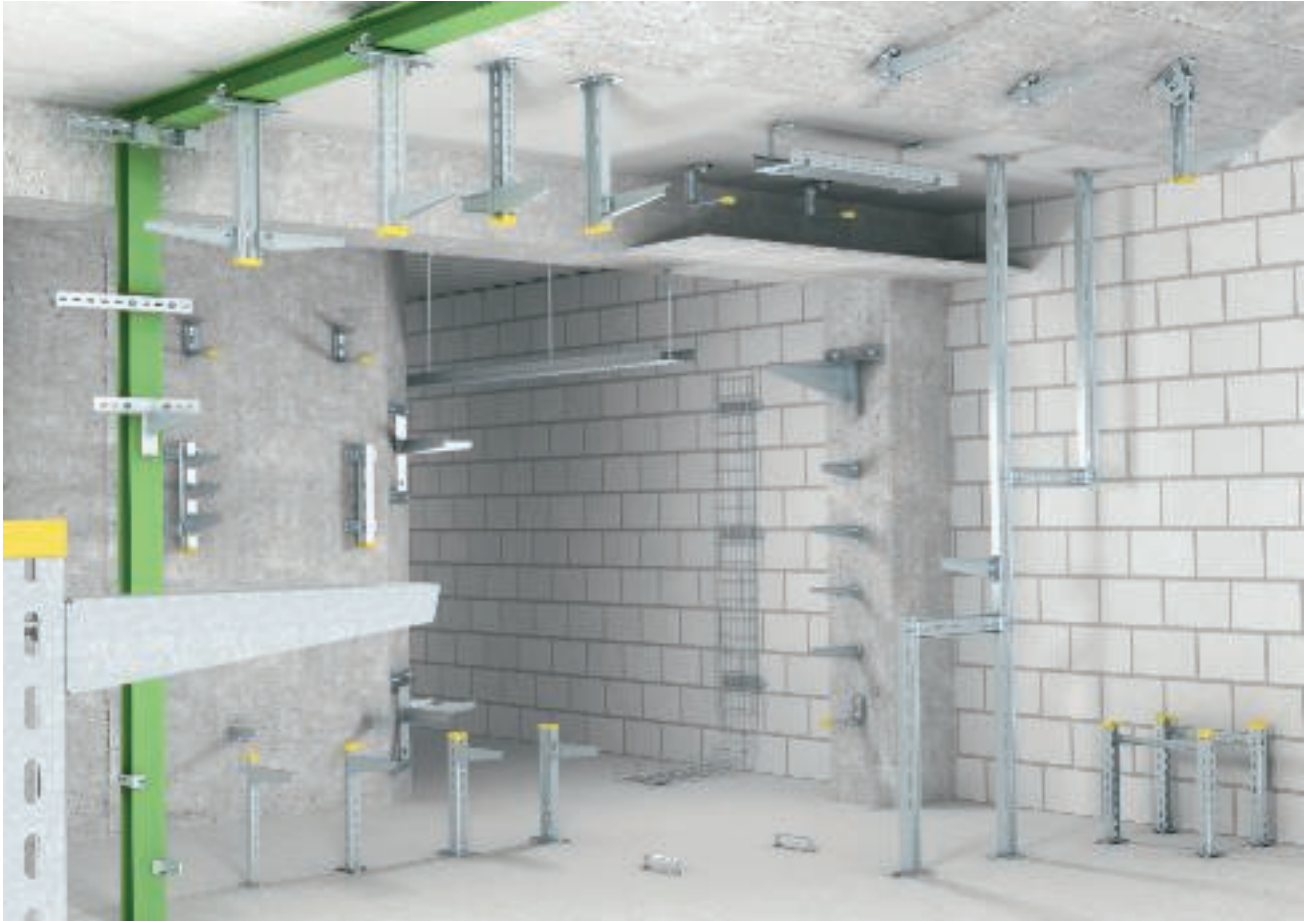
Fuels, solvents, oils.

*The minus values apply only for parts in the quiescent condition with no severe impact stress.

There is no plastic that is resistant to every chemical. The agents listed are only a small selection. Plastic parts are especially at risk in the presence of chemicals and high temperatures. Stress cracks may occur. If in doubt, please consult us and/or ask for a detailed chemical resistance table.

Stress crack formation: stress cracks may occur if plastic parts under tension are exposed to chemicals at the same time. Parts made of polystyrene and polyethylene are particularly susceptible. Stress cracks may even be caused by agents to which the plastic in question is resistant in the absence of stress. Typical examples of parts under constant stress when used as intended: grip clips, intermediate supports of cable glands, ribbon clips.





Mounting systems

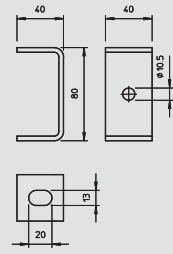
	Universal systems	Ceiling bracket Threaded rod Centre suspension	140
		TP wall and ceiling bracket TP suspended support TP support / wall and support bracket	143
	U support systems	US 3 suspended support	149
		US 5 suspended support	152
		US 7 suspended support	155
	Wall and support brackets	MWA12, load 1.2 kN MWAM12, load 1.2 kN MWAG12, load 1.2 kN	159
		AW15, load 1.5 kN AWG15, load 1.5 kN	162
		AW30, load 3.0 kN AW55, load 3.0 kN AW 80, load 3.0 kN	164
	Wall brackets	Variable	166
	Wall and clamping bracket	AWSS, heavy-duty design	167
	I support systems	IS 8 suspended support	169
	Support bracket IS8	AS 15, load 1.5 kN AS 30, load 3.0 kN AS 55, load 5.5 kN	173
	Clamp fastening systems	Chuck jaw Beam clamp Adapter plate	175
	Construction and profile rail systems	Profile rails Construction and suspension profile	178

Universal systems



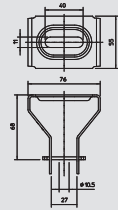
Ceiling bracket

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
DB FT	50	16.000	6356 10 9
ST Steel FT Hot-dip galvanised			/pc.
Ceiling bracket for threaded rod suspension.			



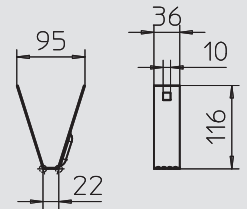
Ceiling bracket, variable

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
DBV FS	20	18.200	6356 05 5
ST Steel FS Strip-galvanised			/pc.
Ceiling bracket for suspension with threaded rods. The variable adjustment permits universal use. The locked threaded rod seat offers the option of infinite angle adjustment.			



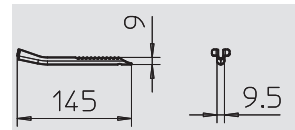
Trapezoidal fastening

Type	Material thickness	Support load	Pack.	Weight	Item No.
	mm	kN	pcs	kg/100 pcs.	
TPB 100 FS	1.5	0.8	50	9.900	6357 50 6
ST Steel FS Strip-galvanised					/pc.
Ceiling bracket for fastening to standard trapezoidal ceilings. Important: observe the statics of the trapezoidal metal ceiling.					



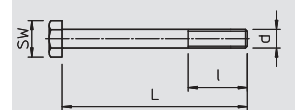
Bolt for trapezoidal fastening

Type	Material thickness	Breaking load	Pack.	Weight	Item No.
	mm	kN	pcs	kg/100 pcs.	
TPB R FS	1.5	0.8	1	3.700	6357 53 6
ST Steel FS Strip-galvanised					/pc.
Bolt for fastening and securing the trapezoidal suspension to trapezoidal ceilings. Important: Observe the statics of the trapezoidal metal ceiling.					



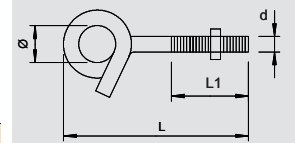
Hexagonal bolt

Type	Dimension	Dimension	Dimension	Dimension	SW	Pack.	Weight	Item No.
	mm	mm	mm	mm	mm	pcs	kg/100 pcs.	
SKS 10X110 G	M10 x 110	110	30	10	17	25	9.500	6418 24 4
ST Steel G Electrogalvanised								/pc.
Hexagonal bolt with washers and hexagonal nut.								



Ceiling hook

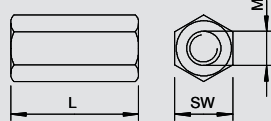
Type	Thread	Dimension d	Dimension L	Dimension L1	Dimension d Ø	Breaking load	Pack.	Weight	Item No.
		mm	mm	mm	mm	kN	pcs	kg/100 pcs.	
948 TG6	M6	6	70	46	13	1	25	5.000	3453 82 0
ST Steel G Electrogalvanised									/100 pc.
Tightly wound ceiling hook. Including two large washers and nuts.									



Threaded rod

Type	Thread	Dimension d	Dimension L	Pack.	Weight	Item No.
		mm	mm	pcs	kg/100 pcs.	
2078 M8 1M G	M8	8	1,000	50	30.000	3141 12 8
2078 M10 1M G	M10	10	1,000	25	49.000	3141 20 9
2078 M12 1M G	M12	12	1,000	20	100.000	3141 30 6
2078 M8 2M G	M8	8	2,000	25	60.000	3141 13 6
2078 M10 2M G	M10	10	2,000	25	98.000	3141 14 0
2078 M12 2M G	M12	12	2,000	20	140.000	3141 14 4
ST Steel G Electrogalvanised						/100 pc.
Threaded rod to DIN 976.						



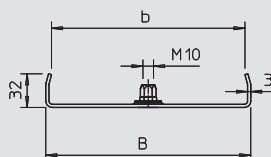


Connection sleeve

Type	Thread	Dimension M	Dimension L	SW	Pack.	Weight	Item No.
			mm	mm	pcs	kg/100 pcs.	
12005 M8 G	M8	8	30	13	50	2.000	6410 08 1
12005 M10 G	M10	10	40	17	50	6.000	6410 10 3
12005 M12 G	M12	12	40	19	25	7.000	6410 11 1

ST Steel **G** Electrogalvanised /100 pc.

Connection sleeve with continuous internal thread.



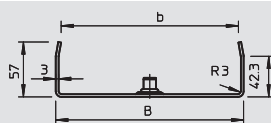
Central suspension for cable tray MAH 35

Type	For width	For threaded rod	Dimension B	Dimension b	Pack.	Weight	Item No.
	mm		mm	mm	pcs	kg/100 pcs.	
MAH 35 100 FS	100	M10	95	84	20	9.400	6358 69 0
MAH 35 200 FS	200	M10	195	184	20	18.600	6358 69 2
MAH 35 300 FS	300	M10	295	284	20	27.700	6358 69 4

ST Steel **FS** Strip-galvanised /pc.

Central suspension for cable trays with rolled side rail of side height 35 mm.

The central suspension possesses a rotatable M10 threaded sleeve. When filling, ensure an even distribution of the load (avoid one-sided filling).



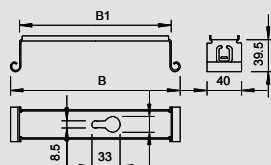
Central suspension for cable tray MAH 60

Type	For width	For threaded rod	Dimension B	Dimension b	Pack.	Weight	Item No.
	mm		mm	mm	pcs	kg/100 pcs.	
MAH 60 100 FS	100	M10	94	84	20	18.500	6358 70 5
MAH 60 150 FS	150	M10	144	134	20	23.000	6358 70 9
MAH 60 200 FS	200	M10	195	184	20	27.600	6358 71 3
MAH 60 300 FS	300	M10	295	284	20	36.700	6358 71 7
MAH 60 100 FT	100	M10	94	84	20	18.500	6358 75 2
MAH 60 150 FT	150	M10	144	134	20	23.000	6358 75 6
MAH 60 200 FT	200	M10	195	184	20	27.600	6358 76 0
MAH 60 300 FT	300	M10	295	284	20	36.700	6358 76 4

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Central suspension for cable trays with rolled side rail of side height 60 mm.

The central suspension possesses a rotatable M10 threaded sleeve. When filling, ensure an even distribution of the load (avoid one-sided filling).

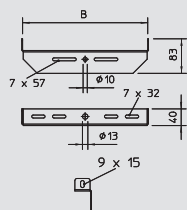


Central suspension for cable tray MAH

Type	For width	Dimension B	Dimension B1	Pack.	Weight	Item No.
	mm	mm	mm	pcs	kg/100 pcs.	
MAH 050 FS	50	47	26	50	5.000	6358 50 0
MAH 075 FS	75	72	51	50	6.500	6358 51 0
MAH 100 FS	100	97	76	50	7.500	6358 52 7
MAH 150 FS	150	147	126	50	8.000	6358 53 5
MAH 200 FS	200	197	176	50	12.500	6358 54 3

ST Steel **FS** Strip-galvanised /pc.

Central suspension for cable trays for attachment from the side rail of the cable tray.



Central suspension, universal

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
MAHU 200 FS	200	20	26.400	6358 85 3
MAHU 300 FS	300	20	39.300	6358 85 6
MAHU 400 FS	400	20	68.800	6358 86 0
MAHU 500 FS	500	20	85.800	6358 86 4
MAHU 600 FS	600	15	102.800	6358 86 8
MAHU 200 FT	200	20	29.400	6358 88 4
MAHU 300 FT	300	20	43.300	6358 88 8
MAHU 400 FT	400	20	75.800	6358 89 2
MAHU 500 FT	500	20	94.800	6358 89 6
MAHU 600 FT	600	15	112.800	6358 90 0

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Universal central suspension for fastening to threaded rods and supports.

Preferred use of this central suspension in combination with cable ladders and mesh cable trays.



Universal systems



Stand-off bracket

Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBL 50 100 FS	100	20	15.800	6015 50 6
DBL 50 150 FS	150	20	19.300	6015 51 4
DBL 50 200 FS	200	20	22.800	6015 52 2
DBL 50 300 FS	300	20	38.000	6015 53 0
DBL 50 400 FS	400	20	47.400	6015 54 9
DBL 50 500 FS	500	25	59.100	6015 55 2
DBL 50 600 FS	600	20	69.000	6015 55 5
DBL 50 100 FT	100	20	16.000	6015 56 5
DBL 50 150 FT	150	20	19.500	6015 57 3
DBL 50 200 FT	200	20	23.000	6015 58 1
DBL 50 300 FT	300	20	38.250	6015 60 3
DBL 50 400 FT	400	20	47.700	6015 61 1
DBL 50 500 FT	500	25	62.600	6015 61 4
DBL 50 600 FT	600	20	73.100	6015 61 7

ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.

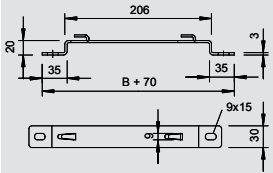
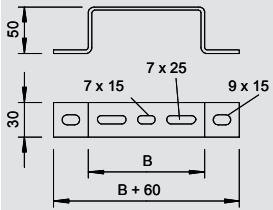
Stand-off bracket for cable trays and mesh cable trays.

Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBLG 20 050 FS	50	20	10.300	6015 64 6
DBLG 20 100 FS	100	20	13.800	6015 65 4
DBLG 20 150 FS	150	20	17.400	6015 65 8
DBLG 20 200 FS	200	20	20.900	6015 66 2
DBLG 20 300 FS	300	20	37.300	6015 67 0
DBLG 20 400 FS	400	20	46.700	6015 68 9
DBLG 20 500 FS	500	25	56.900	6015 69 3
DBLG 20 600 FS	600	25	66.400	6015 69 7
DBLG 20 050 FT	50	20	10.700	6015 64 8
DBLG 20 100 FT	100	20	14.300	6015 65 6
DBLG 20 150 FT	150	20	18.100	6015 66 0
DBLG 20 200 FT	200	20	21.700	6015 66 4
DBLG 20 300 FT	300	20	38.800	6015 67 2
DBLG 20 400 FT	400	20	48.600	6015 69 1
DBLG 20 500 FT	500	25	59.200	6015 69 5
DBLG 20 600 FT	600	25	69.100	6015 69 9

ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.

Stand-off bracket for stand-off of mesh cable trays on the floor or on the wall.

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



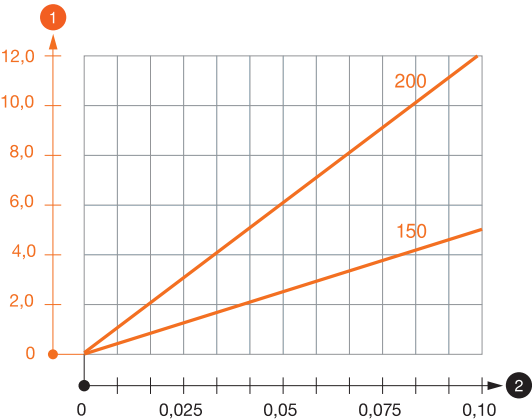
Wall angle bracket

Type	F in kN	Dimension L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WW 100 15 FS	0.1	158	50	25.000	6015 36 0
WW 100 20 FS	0.1	208	50	30.000	6015 37 9

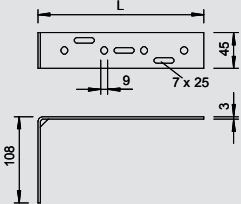
ST Steel FS Strip-galvanised /pc.

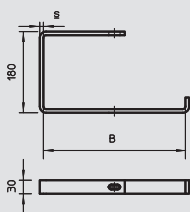
Wall angle bracket for fastening to masonry and concrete to accept low loads.

Load diagram, wall angle bracket WW 100



- 1 Bending of the bracket point at approved bracket load
 - 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm



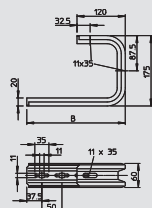


Ceiling bracket

Type	Width mm	Dimension s mm	Hole Ø mm	F in ceiling kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AHB 100 FT	100	6	11	0.6	10	54.000	6363 90 3
AHB 150 FT	150	8	11	0.6	10	87.000	6363 90 7
AHB 200 FT	200	8	11	0.6	10	101.000	6363 91 1
AHB 300 FT	300	8	11	0.35	10	130.000	6363 93 8
AHB 400 FT	400	8	11	0.2	10	157.000	6363 94 6

ST Steel **FT** Hot-dip galvanised /pc.

Ceiling bracket for cable support systems.



TP wall and ceiling bracket

Type	Width mm	For width mm	F in kN Wall	F in kN ceiling	Pack. pcs	Weight kg/100 pcs.	Item No.
TPD 145 FS	145	100	1.4	1.3	6	48.000	6363 80 6
TPD 245 FS	245	200	0.87	0.8	5	66.000	6363 81 4
TPD 345 FS	345	300	0.55	0.5	5	78.000	6363 82 2
TPD 145 FT	145	100	1.4	1.3	6	54.000	6363 86 1
TPD 245 FT	245	200	0.87	0.8	5	69.000	6363 86 5
TPD 345 FT	345	300	0.55	0.5	5	83.000	6363 86 9

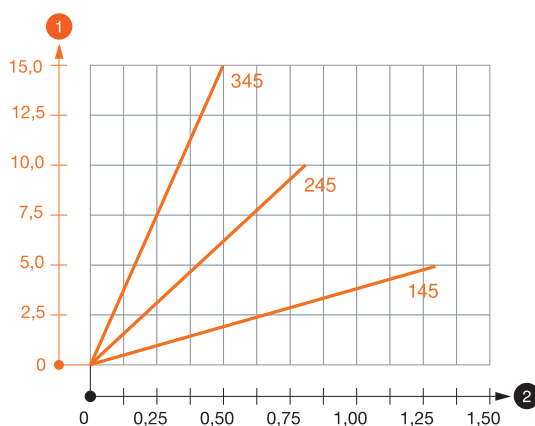
ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

TP wall and ceiling bracket for universal use.

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

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

Load diagram, ceiling bracket TPD



- 1 Bending of the bracket point at approved bracket load
 - 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm

Characteristic anchor load values for TPD wall and ceiling bracket

Single-sided ceiling bracket load				
Anchors	Max. total load F in kN			
	Bracket length in mm			
	145	245	345	
2.4	1.50	0.90	0.55	
4.3	1.50	1.20	0.80	

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



Universal systems



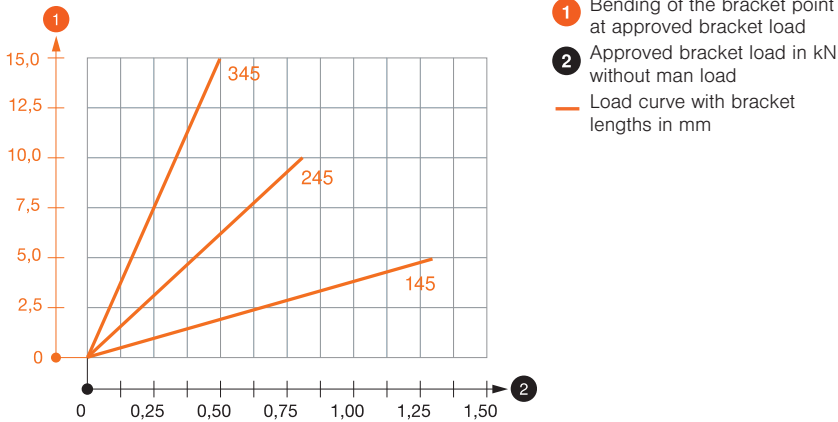
TP wall and ceiling bracket

Type	Width mm	For width mm	F in kN Wall	F in kN ceiling	Pack. pcs	Weight kg/100 pcs.	Item No.
TPDG 145 FS	145	100	1.4	1.3	6	53.000	6365 90 6
TPDG 195 FS	195	150	1.05	0.95	6	59.000	6365 91 4
TPDG 245 FS	245	200	0.87	0.8	5	68.000	6365 92 2
TPDG 345 FS	345	300	0.55	0.5	5	81.000	6365 94 9
TPDG 145 FT	145	100	1.4	1.3	6	56.000	6365 97 7
TPDG 245 FT	245	200	0.87	0.8	5	71.000	6365 98 1
TPDG 345 FT	345	300	0.55	0.5	5	86.000	6365 98 5

ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.

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

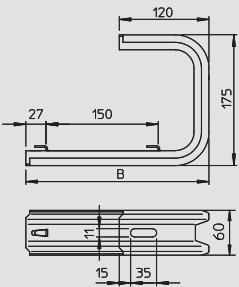
Load diagram, ceiling bracket TPDG

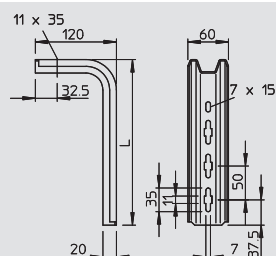


Characteristic anchor load values for TPDG wall and ceiling bracket

Single-sided bracket load			
Anchors	Max. total load F in kN		
	Bracket length in mm		
Appr.	145	245	345
F kN	1.50	0.90	0.55
2.4	1.50	1.20	0.80

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





TP suspended support

Type	Length mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
TPS 445 FS	445	1.05	15	73.000	6364 32 2
TPS 545 FS	545	0.8	15	80.000	6364 34 9
TPS 645 FS	645	0.61	15	99.000	6364 36 5
TPS 445 FT	445	1.05	15	63.000	6364 40 3
TPS 545 FT	545	0.8	15	75.500	6364 50 0
TPS 645 FT	645	0.61	15	88.000	6364 60 8

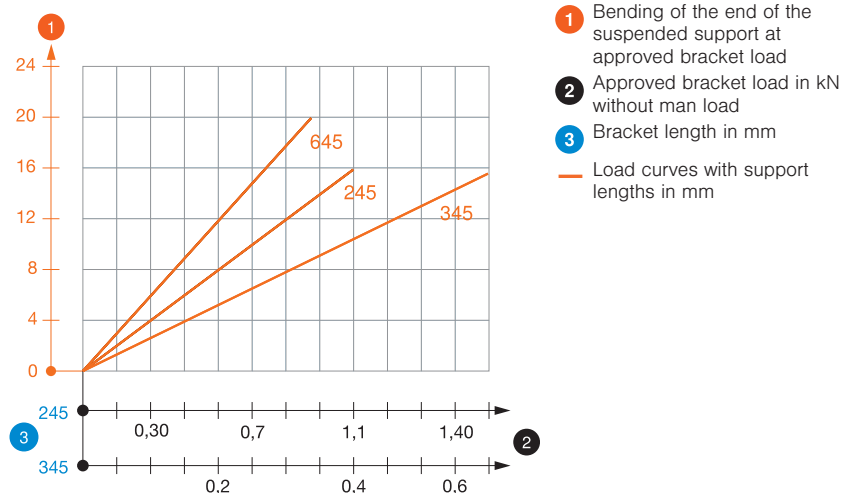
ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.

TP support for fastening to horizontal concrete ceilings.

If the support is fastened directly to the ceiling or the support is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.

Important: only use brackets of length 345 mm or less.

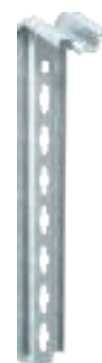
Load diagram, TP supports, type TPS



Characteristic anchor load values for TP support

Single-sided bracket load					Double-sided bracket load				
	Anchors	Max. total load F in kN				Anchors	Max. total load F in kN		
	Appr.	Bracket length in mm				Appr.	Bracket length in mm		
	F kN	145	245	345		F kN	145	245	345
	2.4	1.50	0.94	0.67		2.4	2.50	1.88	1.34
	4.3	1.50	1.05	0.85		4.3	2.50	2.50	1.70

Max. total load F = cable weight + cable tray + bracket + support. The tabular values for double-sided loads take the available axis spacing $a_i = 17$ cm into account. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).



Universal systems



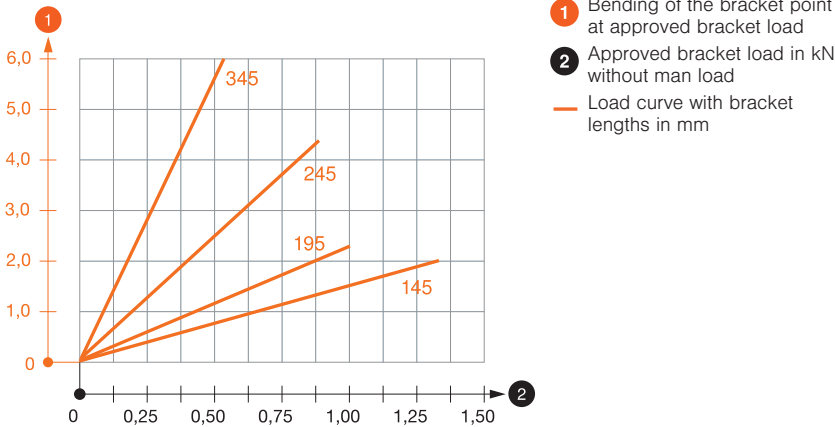
TP support / wall and support bracket

Type	Width	For	F in kN	Pack.	Weight	Item No.
	mm	width				
		mm	kN	pcs	kg/100 pcs.	
TPSA 145 FS	145	100	1.5	50	32.000	6364 10 1
TPSA 195 FS	195	150	1.0	20	38.000	6364 15 2
TPSA 245 FS	245	200	0.9	20	45.000	6364 20 9
TPSA 345 FS	345	300	0.55	20	59.000	6364 30 6
TPSA 145 FT	145	100	1.5	50	33.000	6364 65 9
TPSA 195 FT	195	150	1.0	20	43.000	6364 68 3
TPSA 245 FT	245	200	0.9	20	38.000	6364 66 7
TPSA 345 FT	345	300	0.55	20	51.000	6364 67 5

ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.

TP support/bracket for fixing to horizontal concrete ceilings and walls.
If the bracket is fastened directly to the ceiling or the bracket is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.

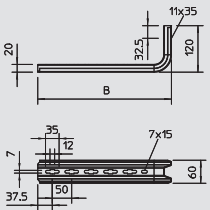
Load diagram, bracket TPSA

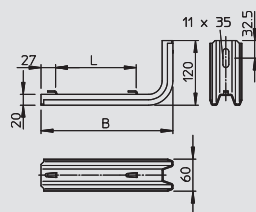


Characteristic anchor load values for TP bracket

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

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





TP support / wall and support bracket

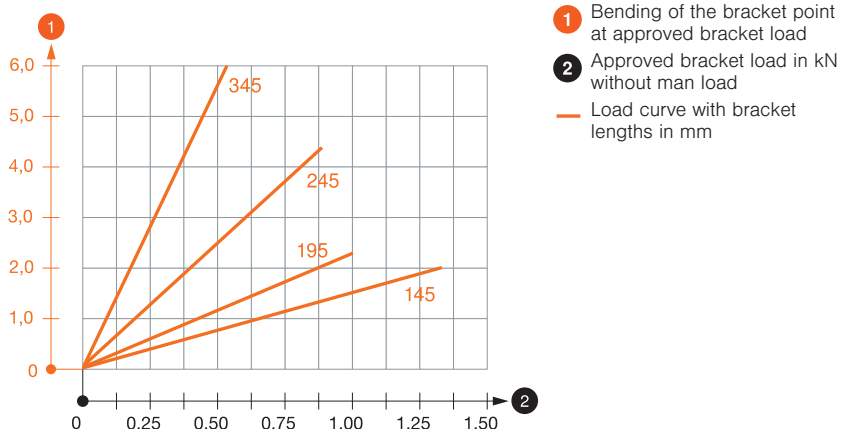
Type	Width mm	For width mm	F in kN	Pack. pcs	Weight kg/100 pcs.	Item No.
TPSAG 145 FS	145	100	1.5	50	33.000	6366 01 5
TPSAG 195 FS	195	150	1.0	20	41.000	6366 02 3
TPSAG 245 FS	245	200	0.9	20	48.000	6366 03 1
TPSAG 345 FS	345	300	0.55	20	61.000	6366 06 6
TPSAG 145 FT	145	100	1.5	50	33.000	6366 13 1
TPSAG 195 FT	195	150	1.0	20	42.000	6366 13 5
TPSAG 245 FT	245	200	0.9	20	49.000	6366 13 9
TPSAG 345 FT	345	300	0.55	20	65.000	6366 14 3

ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.

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

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

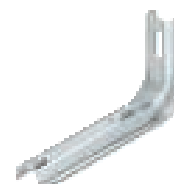
Load diagram, bracket TPSAG



Characteristic anchor load values for TP bracket

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

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



TP profile

Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TPSG 3000 FS	3,000	1	401.700	6366 09 0

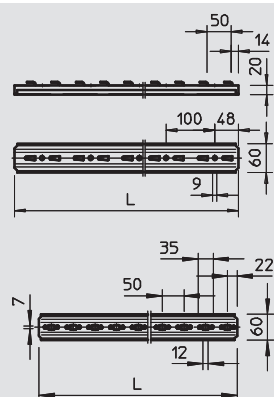
ST Steel FS Strip-galvanised /pc.

TP profile with clamping lugs.

Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TPS 3000 FS	3,000	1	401.000	6364 80 2

ST Steel FS Strip-galvanised /pc.

TP profile, perforated, in supply length 3000 mm.



Protective cap

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
TPS KS OR	Pastel orange	10	0.700	6364 62 5

PE Polyethylene

Protective cap to cover ends of TP supports.



Universal systems

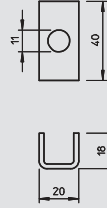


Spacer

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
DS 4 FS	20	3.700	6416 55 1
DS 4 FT	20	3.800	6416 58 6
ST Steel FS Strip-galvanised FT Hot-dip galvanised			/pc.

Spacer for use in brackets, type TP.

For static reasons, the spacer is always used to prevent the bracket from deforming when the fastening screws are tightened.

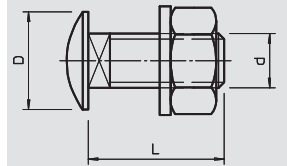


Truss-head bolt

Type	Grade	Dimen- sion mm	Dimen- sion L mm	Dimen- sion d mm	Dimen- sion D mm	Pack.	Weight	Item No.
						pcs	kg/100 pcs.	
FRS 10X25 F TPS	5.6	M10 x 25	25	10	18	50	4.300	6407 53 6
ST Steel F Hot-dip galvanised								/100 pc.

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

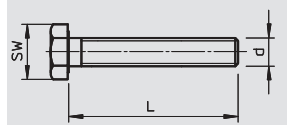
The truss-head bolt can be used in combination with hot-dip and double-dip galvanised articles.

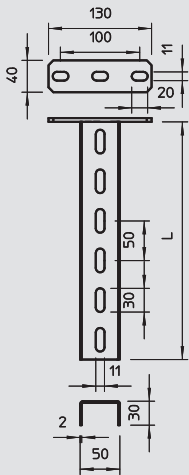


Hexagonal bolt

Type	Dimen- sion mm	Dimen- sion L mm	Dimen- sion d mm	SW	Pack.	Weight	Item No.
					pcs	kg/100 pcs.	
SKS 10X60 F	M10 x 60	60	10	17	20	6.000	6408 51 6
ST Steel F Hot-dip galvanised							/100 pc.

Hexagonal bolt for universal fixing of structure components.





US 3 suspended support

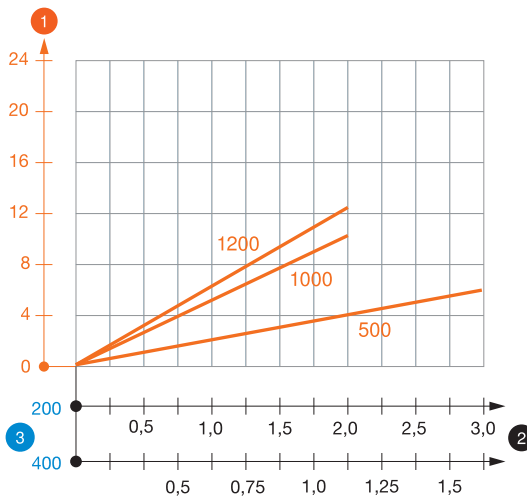
Type	Length mm	Material thickness mm	Tensile load kN	Bracket length 200 kN	Bracket length 400 kN	Pack. pcs	Weight kg/100 pcs.	Item No.
US 3 K 20 FT	200	2	5	2.7	1.5	1	50.500	6342 35 1
US 3 K 30 FT	300	2	5	2.7	1.5	1	64.400	6342 35 3
US 3 K 40 FT	400	2	5	2.7	1.5	4	78.300	6342 35 5
US 3 K 50 FT	500	2	5	2.7	1.5	1	92.300	6342 35 7
US 3 K 60 FT	600	2	5	2.1	1.1	1	106.200	6342 35 9
US 3 K 70 FT	700	2	5	2.1	1.1	1	120.200	6342 36 2
US 3 K 80 FT	800	2	5	2.1	1.1	1	134.100	6342 36 4
US 3 K 90 FT	900	2	5	2.1	1.1	1	147.800	6342 36 6
US 3 K 100 FT	1,000	2	5	2.1	1.1	1	162.000	6342 36 8
US 3 K 110 FT	1,100	2	5	2.1	1.1	1	175.900	6342 37 0
US 3 K 120 FT	1,200	2	5	2.1	1.1	1	189.900	6342 37 2

ST Steel **FT** Hot-dip galvanised /pc.

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

For fastening to horizontal concrete ceilings and steel girders. In the case of bracket mounting on both sides, or when mounting the bracket at the end of the support, use the spacer of type DSK 25.

Load diagram, U support, type US 3 K

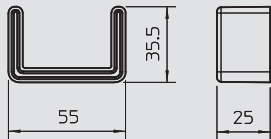


- 1 Bending of the end of the suspended support at approved bracket load
 - 2 Approved bracket load in kN without man load
 - 3 Bracket length in mm
- Load curves with support lengths in mm

Characteristic anchor load values for US 3 K suspended support

Single-sided bracket load						Double-sided bracket load					
Anchors		Max. total load F in kN				Anchors		Max. total load F in kN			
Appr.		Bracket length in mm				Appr.		Bracket length in mm			
F kN		100	200	300	400	F kN		100	200	300	400
2.4	1.68	1.26	1.00	0.83		2.4	3.00	2.56	2.25	1.95	
4.3	3.06	2.31	1.85	1.50		4.3	3.00	3.00	3.00	3.00	

Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing $a_i = 10$ cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).



Protective cap

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
US 3 KS OR	Pastel orange	20	1.070	6338 45 8

PE Polyethylene /pc.

Protective cap to cover the ends of US 3 supports.



U support and bracket systems

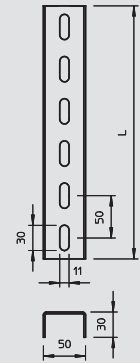


US 3 support FS

Type	Length	Material thickness	Pack.	Weight	Item No.
	mm	mm	pcs	kg/100 pcs.	
US 3 20 FS	200	2	1	26.600	6342 30 2
US 3 30 FS	300	2	1	39.900	6342 30 4
US 3 40 FS	400	2	1	53.200	6342 30 6
US 3 50 FS	500	2	1	66.500	6342 30 8
US 3 60 FS	600	2	1	79.800	6342 31 0
US 3 70 FS	700	2	1	93.400	6342 31 2
US 3 80 FS	800	2	1	106.500	6342 31 4
US 3 90 FS	900	2	1	119.800	6342 31 6
US 3 100 FS	1,000	2	1	133.100	6342 31 8
US 3 150 FS	1,500	2	1	199.600	6342 32 8
US 3 200 FS	2,000	2	1	266.100	6342 33 8
US 3 300 FS	3,000	2	1	399.100	6342 34 0
US 3 600 FS	6,000	2	1	798.400	6342 34 5

ST Steel **FS** Strip-galvanised /pc.

U support in fixed lengths. Dimensions 30 x 50 mm.
In the case of bracket mounting on both sides, or when mounting the bracket at the end of the suspended support, use the spacer of type DSK 25.

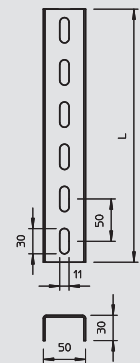


US 3 support FT

Type	Length	Material thickness	Pack.	Weight	Item No.
	mm	mm	pcs	kg/100 pcs.	
US 3 600 FT	6,000	2	1	834.300	6342 45 0

ST Steel **FT** Hot-dip galvanised /pc.

U support in fixed lengths. Dimensions 30 x 50 mm.
In the case of bracket installation on both sides, or when installing the bracket at the end of the support, use the spacer of type DSK 25.

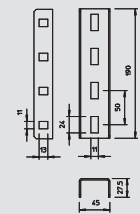


U support connector

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
VUS 3 FT	10	48.000	6018 51 3

ST Steel **FT** Hot-dip galvanised /pc.

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

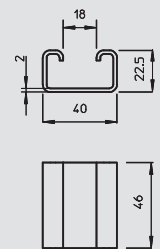


Spacer

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
DSK 25 FT	25	7.500	6416 44 6

ST Steel **FT** Hot-dip galvanised /pc.

Spacer for use in U 3 supports.

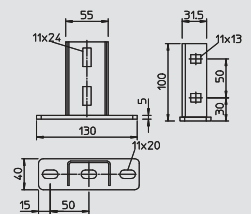


Head plate

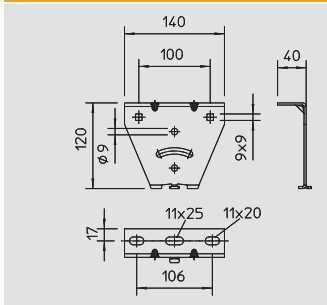
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KU 3 FT	10	46.800	6348 87 4

ST Steel **FT** Hot-dip galvanised /pc.

Head plate for mounting on US 3 supports.
The head plate can be mounted to fixed lengths of the U support, type US 3.
Including appropriate fastening material.



U support and bracket systems



Head plate, variable

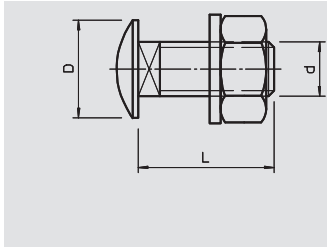
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KU 3 V FS	20	26.700	6348 88 1
KU 3 V FT	20	28.300	6348 88 3

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised

/pc.

Variable head plate for installation on US 3 supports and profile rails, type 2068.

The variable head plate can be mounted to fixed lengths of the U support, type US 3, or profile rails, type 2068. The maximum angle adjustment is 20° on one side.



Truss-head bolt

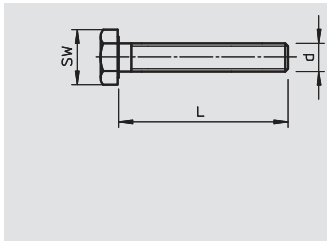
Type	Grade	Dimension	Dimension L	Dimension d	Dimension D	Pack.	Weight	Item No.
		mm	mm	mm	mm	pcs	kg/100 pcs.	
FRS 10X25 F 8.8	8.8	M10 x 25	25	10	24	50	4.500	6407 56 0

ST Steel **F** Hot-dip galvanised

/100 pc.

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

The truss-head bolt can be used in combination with hot-dip and double-dip galvanised articles.



Hexagonal bolt

Type	Dimension	Dimension L	Dimension d	SW	Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs	kg/100 pcs.	
SKS 10X80 F	M10 x 80	80	10	17	20	7.700	6418 25 0
SKS 10X90 F	M10 x 90	90	10	17	20	8.000	6418 25 2

ST Steel **F** Hot-dip galvanised

/pc.

Hexagonal bolt for universal fixing of structure components.



U support and bracket systems



US 5 suspended support

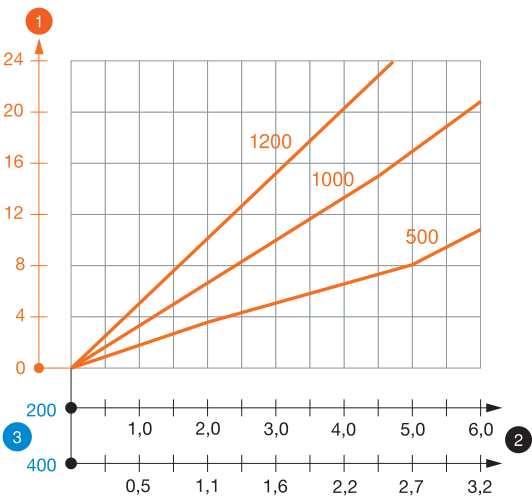
Type	Length mm	Material thickness mm	Tensile load kN	Bracket length 200 kN	Bracket length 400 kN	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 K 20 FT	200	2.5	10	5.75	3.1	1	85.000	6341 52 7
US 5 K 30 FT	300	2.5	10	5.75	3.1	2	110.000	6341 53 5
US 5 K 40 FT	400	2.5	10	5.75	3.1	1	136.000	6341 54 3
US 5 K 50 FT	500	2.5	10	5.75	3.1	1	161.000	6341 55 1
US 5 K 60 FT	600	2.5	10	5.75	3.1	1	186.000	6341 57 8
US 5 K 70 FT	700	2.5	10	5.75	3.1	1	211.000	6341 58 6
US 5 K 80 FT	800	2.5	10	5.75	3.1	1	236.000	6341 59 4
US 5 K 90 FT	900	2.5	10	5.75	3.1	1	262.000	6341 60 8
US 5 K 100 FT	1,000	2.5	10	5.75	3.1	1	287.000	6341 61 6
US 5 K 110 FT	1,100	2.5	10	4.0	2.2	1	311.000	6341 62 4
US 5 K 120 FT	1,200	2.5	10	4.0	2.2	1	338.000	6341 63 2

ST Steel **FT** Hot-dip galvanised /pc.

U support of dimensions 50 x 50 mm with welded head plate.

For fastening to horizontal concrete ceilings and steel girders. In the case of bracket mounting on both sides, or when mounting the bracket at the end of the support, use the spacer of type DSK 45.

Load diagram, U support, type US 5 K

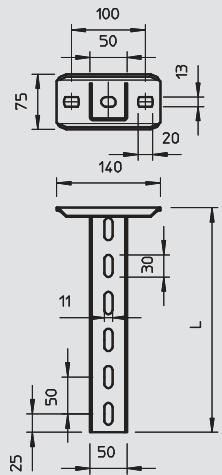


- 1 Bending of the end of the suspended support at approved bracket load
 - 2 Approved bracket load in kN without man load
 - 3 Bracket length in mm
- Load curves with support lengths in mm

Characteristic anchor load values for US 5 K suspended support

Single-sided bracket load						Double-sided bracket load									
	Anchors		Max. total load F in kN					Anchors		Max. total load F in kN					
	Appr.		Bracket length in mm					Appr.		Bracket length in mm					
	F kN	100	200	300	400	F kN		100	200	300	400	500	600		
	4.3	3.06	2.31	1.85	1.53		4.3	6.00	5.02	4.32	3.65	—	—		
	7.6	4.90	4.10	3.24	2.66		7.6	6.00	6.00	6.00	5.78	5.29	4.84		

Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing $a_i = 10$ cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

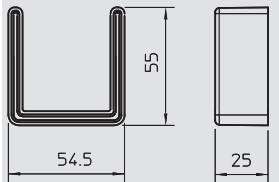


Protective cap

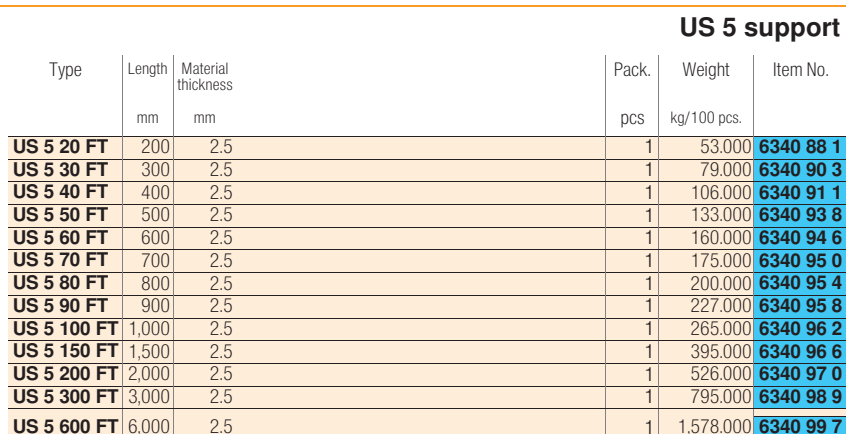
Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 KS OR	Pastel orange	20	1.300	6338 46 2

PE Polyethylene /pc.

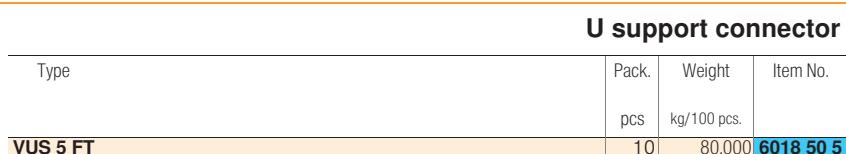
Protective cap for end covering of US 5 supports.



Mounting systems



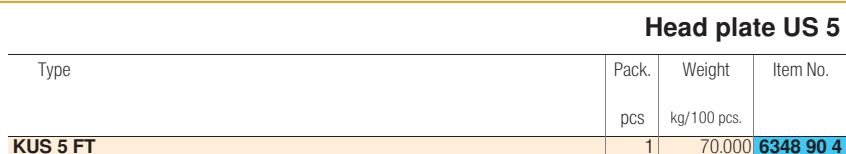
In the case of bracket mounting on both sides, or when mounting the bracket at the end of the suspended support, use the spacer of type DSK 45.



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



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



Head plate for installation in US 5 support.
When installing the head plate, please use the spacer, type DSK 45.



Head plate for reverse installation in US 5 support.
When installing the head plate, please use the spacer, type DSK 45.



The spacer, type DSK 47, is used for stabilisation when mounting the head plate. The maximum angle adjustment is approx. 30° on one side.

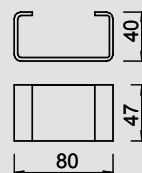


U support and bracket systems



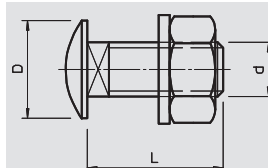
Spacer

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
DSK 47 FT	25	16.000	6416 50 4
ST Steel FT Hot-dip galvanised			/pc.
Spacer for use in head plate, type KU 5 V. For static reasons, the spacer is always used to increase stability to prevent the head plate from deforming when the hexagonal bolts are tightened.			



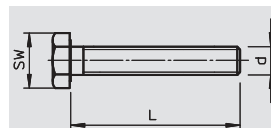
Truss-head bolt

Type	Grade	Dimension	Dimension L	Dimension d	Dimension D	Pack.	Weight	Item No.
		mm	mm	mm	mm	pcs	kg/100 pcs.	
FRS 10X25 F 8.8	8.8	M10 x 25	25	10	24	50	4.500	6407 56 0
ST Steel F Hot-dip galvanised								/100 pc.
Truss-head bolt with square neck. With washer and hexagonal nut. The truss-head bolt can be used in combination with hot-dip and double-dip galvanised articles.								

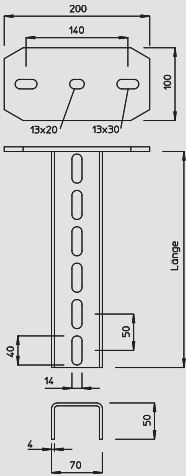


Hexagonal bolt

Type	Dimension	Dimension L	Dimension d	SW	Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs	kg/100 pcs.	
SKS 10X80 F	M10 x 80	80	10	17	20	7.700	6418 25 0
SKS 10X90 F	M10 x 90	90	10	17	20	8.000	6418 25 2
SKS 10X120 F	M10 x 120	120	10	17	20	13.500	3160 79 3
ST Steel F Hot-dip galvanised							/100 pc. /pc.
Hexagonal bolt for universal fixing of structure components.							



U support and bracket systems



US 7 suspended support

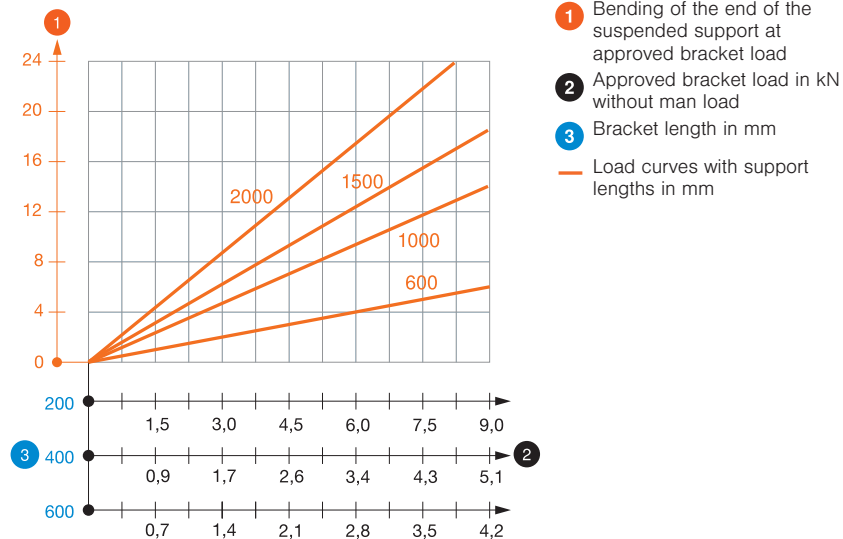
Type	Length mm	Material thickness mm	Tensile load kN	Bracket length 200 kN	Bracket length 400 kN	Bracket length 600 kN	Pack. pcs	Weight kg/100 pcs.	Item No.
US 7 K 20 FT	200	4	11	8.3	5.0	3.5	1	174.000	6339 01 8
US 7 K 30 FT	300	4	11	8.3	5.0	3.5	1	214.000	6339 03 4
US 7 K 40 FT	400	4	11	8.3	5.0	3.5	1	254.000	6339 05 0
US 7 K 50 FT	500	4	11	8.3	5.0	3.5	1	294.000	6339 07 7
US 7 K 60 FT	600	4	11	8.3	5.0	3.5	1	334.000	6339 09 3
US 7 K 70 FT	700	4	11	8.3	5.0	3.5	1	374.000	6339 11 5
US 7 K 80 FT	800	4	11	8.3	5.0	3.5	1	414.000	6339 13 1
US 7 K 90 FT	900	4	11	8.3	5.0	3.5	1	454.000	6339 16 6
US 7 K 100 FT	1,000	4	11	8.3	5.0	3.5	1	494.000	6339 18 2
US 7 K 110 FT	1,100	4	11	8.3	5.0	3.5	1	534.000	6339 19 0
US 7 K 120 FT	1,200	4	11	8.3	5.0	3.5	1	574.000	6339 20 4
US 7 K 130 FT	1,300	4	11	8.3	5.0	3.5	1	614.000	6339 21 2
US 7 K 140 FT	1,400	4	11	8.3	5.0	3.5	1	654.000	6339 22 0
US 7 K 150 FT	1,500	4	11	8.3	5.0	3.5	1	694.000	6339 23 9
US 7 K 160 FT	1,600	4	11	7.5	4.2	2.9	1	734.000	6339 24 7
US 7 K 170 FT	1,700	4	11	7.5	4.2	2.9	1	774.000	6339 25 5
US 7 K 180 FT	1,800	4	11	7.5	4.2	2.9	1	814.000	6339 26 3
US 7 K 190 FT	1,900	4	11	7.5	4.2	2.9	1	854.000	6339 27 1
US 7 K 200 FT	2,000	4	11	7.5	4.2	2.9	1	894.000	6339 29 8

ST Steel **FT** Hot-dip galvanised /pc.

Suspended support (U profile) of dimensions 70 x 50 mm with welded head plate.

For fastening to horizontal concrete ceilings and steel girders. In the case of bracket mounting on both sides, or when mounting the bracket at the end of the suspended support, use the spacer of type DSK 61.

Load diagram, U support, type US 7 K



Characteristic anchor load values for U support, type US 7 K

Single-sided bracket load								Double-sided bracket load							
	Anchors	Max. total load F in kN							Anchors	Max. total load F in kN					
	Appr.	Bracket length in mm							Appr.	Bracket length in mm					
	F kN	100	200	300	400	500	600		F kN	100	200	300	400	500	600
	4.3	3.49	2.79	2.36	2.00	1.76	1.56		4.3	6.39	5.49	4.89	4.39	3.89	3.49
	7.6	6.22	4.87	4.02	3.43	3.04	2.68		7.6	8.50	8.50	8.50	8.50	8.50	8.50

Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing $a_i = 14$ cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

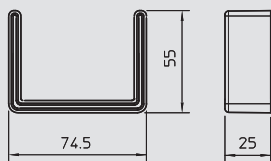


Protective cap



Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
US 7 KS OR	Pastel orange	20	1.800	6338 49 7
PE	Polyethylene			/pc.

Protective cap to cover the ends of US 7 supports.



U support and bracket systems



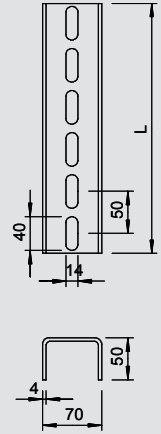
US 7 support

Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 7 20 FT	200	4	1	80.000	6340 01 6
US 7 30 FT	300	4	1	120.000	6340 03 2
US 7 40 FT	400	4	1	160.000	6340 05 9
US 7 50 FT	500	4	1	200.000	6340 07 5
US 7 60 FT	600	4	1	240.000	6340 09 1
US 7 70 FT	700	4	1	280.000	6340 11 3
US 7 80 FT	800	4	1	320.000	6340 14 8
US 7 90 FT	900	4	1	360.000	6340 16 4
US 7 100 FT	1,000	4	1	400.000	6340 18 0
US 7 110 FT	1,100	4	1	440.000	6340 19 9
US 7 120 FT	1,200	4	1	480.000	6340 20 2
US 7 130 FT	1,300	4	1	520.000	6340 21 0
US 7 140 FT	1,400	4	1	560.000	6340 22 9
US 7 150 FT	1,500	4	1	600.000	6340 23 7
US 7 160 FT	1,600	4	1	640.000	6340 24 5
US 7 170 FT	1,700	4	1	680.000	6340 25 3
US 7 180 FT	1,800	4	1	720.000	6340 26 1
US 7 190 FT	1,900	4	1	760.000	6340 28 8
US 7 200 FT	2,000	4	1	800.000	6340 29 6
US 7 300 FT	3,000	4	1	1,200.000	6340 37 7
US 7 400 FT	4,000	4	1	1,625.000	6340 39 3
US 7 600 FT	6,000	4	1	2,400.000	6340 31 8

ST Steel **FT** Hot-dip galvanised /pc.

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

In the case of bracket mounting on both sides, or when mounting the bracket at the end of the suspended support, use the spacer of type DSK 61.



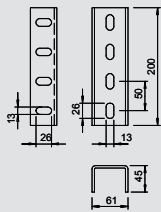
U support connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VUS 7 FT	10	114.000	6018 37 8

ST Steel **FT** Hot-dip galvanised /pc.

U support connector to connect US 7 supports.

Including appropriate fastening material.



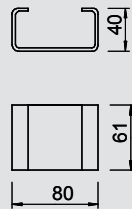
Spacer

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DSK 61 FT	20	26.000	6416 51 9

ST Steel **FT** Hot-dip galvanised /pc.

Spacer for use in U 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.



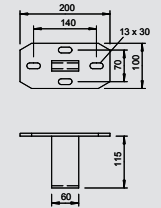
Head plate, light-duty

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KU 7 FT	10	160.000	6349 10 2

ST Steel **FT** Hot-dip galvanised /pc.

Light-duty head plate for mounting on US 7 support.

Please order fastening material (two hexagonal bolts SKS 12 x 80) separately.



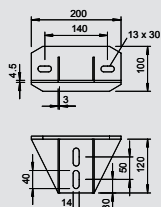
Head plate, heavy-duty

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KU 7 NOX FT	1	184.000	6349 05 6

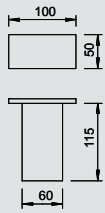
ST Steel **FT** Hot-dip galvanised /pc.

Heavy-duty head plate for installation in US 7 support.

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

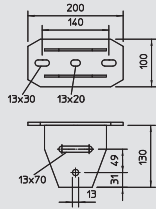


U support and bracket systems



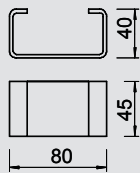
Head plate for welding

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KU 7 AOX FT	1	82.000	6349 21 8
ST Steel FT Hot-dip galvanised			/pc.
Head plate for US 7 support for welding on steel girder. Please order fastening material (two hexagonal bolts SKS 12 x 80) separately.			



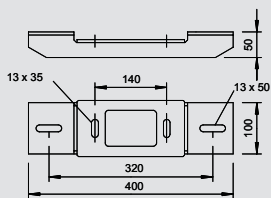
Head plate, variable

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KU 7 VQP FT	10	157.000	6349 15 3
ST Steel FT Hot-dip galvanised			/pc.
Variable head plate for mounting on US 7 support. Please order fastening material (two hexagonal bolts SKS 12 x 80 and spacer DSK 45) separately. The maximum angle adjustment is 30° on one side.			



Spacer

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
DSK 45 FT	25	19.000	6416 50 0
ST Steel FT Hot-dip galvanised			/pc.
Spacer for use in U 5 support and in the head plate, type KU 7 VQP. For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the all-round hexagonal bolt.			



Adapter head plate, symmetrical

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KA-SY FT	1	280.000	6346 80 4
ST Steel FT Hot-dip galvanised			/pc.

Adapter head plate, symmetrical, to increase the load capacity of supports, type US 7 K and IS 8 K.

The adapter head plate increases the load capacity of the IS 8 K and US 7 K supports, taking the characteristic anchor values into account.

Characteristic anchor load values for adapter head plate, symmetrical

Adapter head plate, symmetrical, single-sided								Adapter head plate, symmetrical, double-sided									
	Anchors		Max. total load F in kN							Anchors		Max. total load F in kN					
	Appr.		Bracket length in mm							Appr.		Bracket length in mm					
	F kN	100	200	300	400	500	600	F kN		100	200	300	400	500	600		
	7.6	5.56	4.98	4.58	4.13	3.81	3.54	7.6		10.00	10.00	9.16	8.26	7.62	7.08		
	9.91	7.44	6.66	6.05	5.54	5.10	4.73		9.91	10.00	10.00	10.00	10.00	10.00	9.46		

Max. total load F = cable weight + cable tray + bracket + support. The tabular values for double-sided loads take the available axis spacing $a_i = 32$ cm into account. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).



U support and bracket systems



Adapter head plate, asymmetrical

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KA-ASY FT	1	280.000	6346 82 0
ST Steel FT Hot-dip galvanised			/pc.

Adapter head plate, asymmetrical, to increase the load capacity of supports, type US 7 K and IS 8 K.

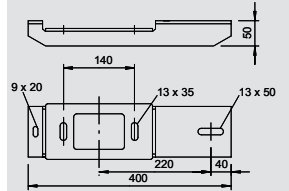
The adapter head plate increases the load capacity of the IS 8 K and US 7 K supports, taking the characteristic anchor values into account.

Characteristic anchor load values for adapter head plate, asymmetrical

Adapter head plate, asymmetrical, single-sided		Max. total load F in kN					
Anchors	Appr.	Bracket length in mm					
		F kN	100	200	300	400	500
		7.6	4.49	4.13	3.81	3.54	2.74
		9.91	6.02	5.52	5.10	4.73	4.63

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

The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

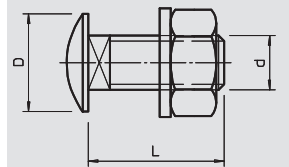


Truss-head bolt

Type	Grade	Dimension	Dimension L	Dimension d	Dimension D	Pack.	Weight	Item No.
		mm	mm	mm	mm	pcs	kg/100 pcs.	
FRS 12X25 F	5.6	M12 x 25	25	12	30	10	6.400	6406 25 4
ST Steel F Hot-dip galvanised								/100 pc.

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

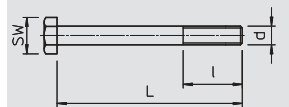
The truss-head bolt can be used in combination with hot-dip and double-dip galvanised articles.



Hexagonal bolt

Type	Dimension	Dimension L	Dimension d	Dimension D	SW	Pack.	Weight	Item No.
	mm	mm	mm	mm	mm	pcs	kg/100 pcs.	
SKS 12X80 F	M12 x 80	80	30	12	19	20	11.800	6418 28 7
SKS 12X100 F	M12 x 100	100	30	12	19	20	12.600	6418 29 5
SKS 12X110 F	M12 x 110	110	30	12	19	20	14.300	6418 31 7
SKS 12X130 F	M12 x 130	130	36	12	19	20	15.500	6408 47 8
ST Steel F Hot-dip galvanised								/100 pc.

Hexagonal bolt with hexagonal nut, washer and toothed disc.

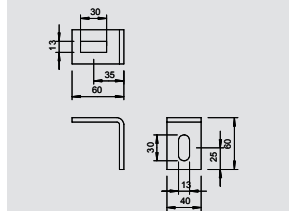


Mounting angle BW 60

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
BW 60 40 FT	10	22.000	6019 56 0
ST Steel FT Hot-dip galvanised			/pc.

Fastening bracket of limb dimension 60 x 60 mm.

Including truss-head bolt M12 x 25.

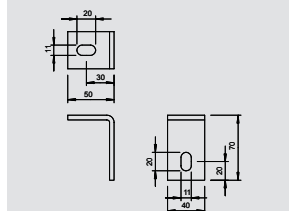


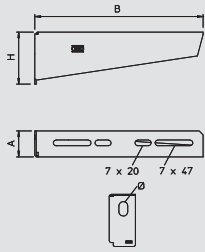
Mounting angle BW 70

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
BW 70 40 FT	10	22.000	6019 70 6
ST Steel FT Hot-dip galvanised			/pc.

Fastening bracket of limb dimension 70 x 50 mm.

Including truss-head bolt M10 x 25.





Wall and support bracket MWA 12

Type	Width mm	Dimension H mm	Dimension A mm	Hole Ø mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
MWA 12 11S FS	110	53	32.5	11	1.2	30	12.700	6424 71 6
MWA 12 21S FS	210	65	32.5	11	1.2	30	24.500	6424 73 2
MWA 12 31S FS	310	75	38	11	1.2	30	57.000	6424 74 0
MWA 12 41S FS	410	83	38	11	1.2	30	68.000	6424 75 9

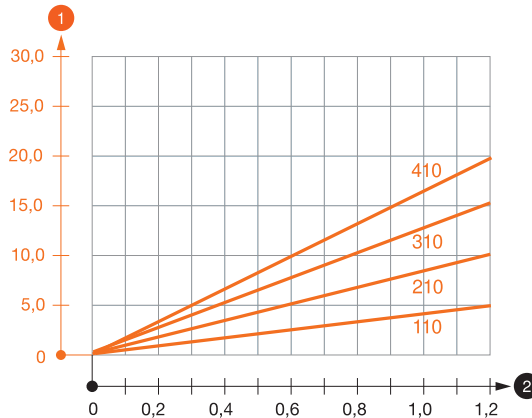
ST Steel **FS** Strip-galvanised

/pc.

Folded light-duty wall and support bracket.

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

Load diagram, bracket, type MWA 12



Characteristic anchor load values for wall and support bracket MWA 12

Bracket load					
F kN	Anchors		Max. total load F in kN		
	Appr.		Bracket length in mm		
	100	200	300	400	
2.4	0.73	0.61	0.49	0.44	
4.3	1.20	1.08	0.88	0.78	

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 class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

Load values for MWA 12 on suspended support

Max. total load F in kN					
Support	Bracket length in mm				
	100	200	300	400	
US 3 K/ 20 - 60	1.20	1.20	1.20	1.20	
US 3 K/ 70 - 120	1.20	1.20	1.20	1.20	
US 5 K/ 20 - 60	1.20	1.20	1.20	1.20	
US 5 K/ 70 - 120	1.20	1.20	1.20	1.20	



U support and bracket systems



Wall and support bracket MWAM 12

Type	Width mm	Dimension H mm	Dimension A mm	Hole Ø mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
MWAM 12 11 FS	110	53	32.5	11	1.2	30	14.300	6424 55 0
MWAM 12 21 FS	210	65	32.5	11	1.2	30	26.000	6424 55 2
MWAM 12 31 FS	310	75	38	11	1.2	30	51.900	6424 55 4
MWAM 12 41 FS	410	83	38	11	1.2	25	69.700	6424 55 6

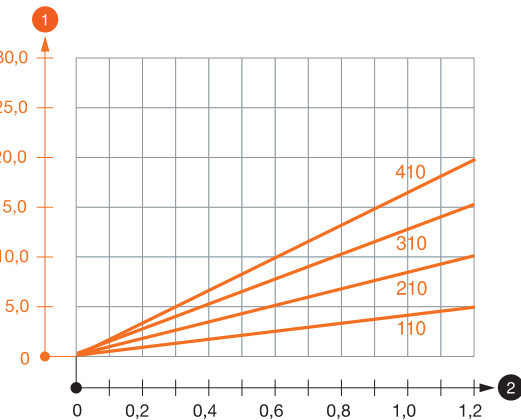
ST Steel **FS** Strip-galvanised /pc.

Folded light-duty wall and support bracket including quick connector.

Wall and support bracket MWAM.. including:

1. Two pre-mounted quick connectors for efficient cable tray fastening.
2. Truss-head bolt M10 x 25 for fastening on the U support.

Load diagram, bracket type MWAM 12



- 1 Bending of the bracket point at approved bracket load
 - 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm

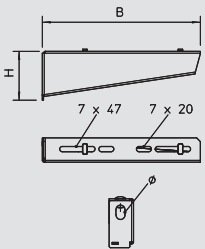
Characteristic anchor load values for wall and support bracket MWAM 12

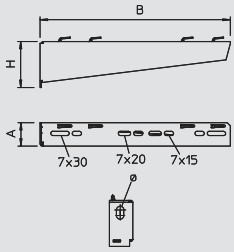
Bracket load		Max. total load F in kN			
Anchors	Appr.	Bracket length in mm			
		100	200	300	400
F kN	2.4	0.73	0.61	0.49	0.44
	4.3	1.20	1.08	0.88	0.78

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

Load values for MWAM 12 on support

Max. total load F in kN		Bracket length in mm			
Support		100	200	300	400
		1.20	1.20	1.20	1.20
US 3 K/ 20 - 60		1.20	1.20	1.20	1.20
US 3 K/ 70 - 120		1.20	1.20	1.20	1.20
US 5 K/ 20 - 60		1.20	1.20	1.20	1.20
US 5 K/ 70 - 120		1.20	1.20	1.20	1.20





Wall and support bracket MWAG 12

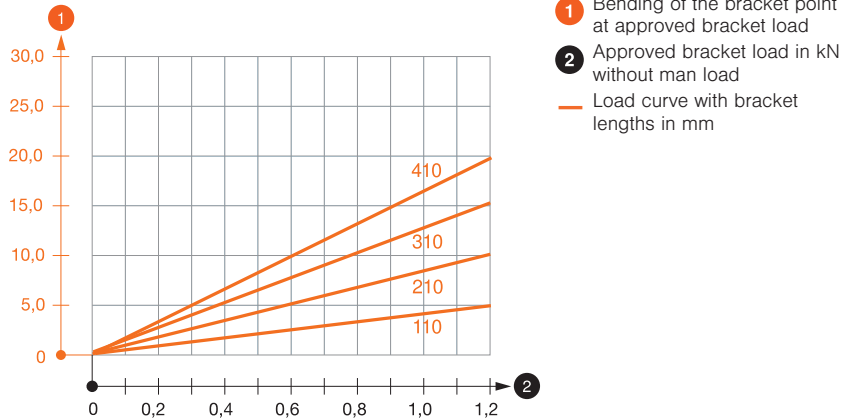
Type	Width mm	Dimension H mm	Dimension A mm	Hole Ø mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
MWAG 12 11 FS	110	53	32.5	11	1.2	30	12.700	6424 60 0
MWAG 12 21 FS	210	65	32.5	11	1.2	30	24.400	6424 60 8
MWAG 12 31 FS	310	75	38	11	1.2	30	50.300	6424 61 6
MWAG 12 41 FS	410	83	38	11	1.2	25	68.100	6424 62 4

ST Steel **FS** Strip-galvanised /pc.

Folded light-duty wall and support bracket for screwless mesh cable tray fastening.

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

Load diagram, bracket type MWAG 12



Characteristic anchor load values for wall and support bracket MWAG 12

Bracket load					
F kN	Anchors		Max. total load F in kN		
	Appr.		Bracket length in mm		
	100	200	300	400	
2.4	0.73	0.61	0.49	0.44	
4.3	1.20	1.08	0.88	0.78	

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 class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

Load values for MWAG 12 on suspended support

Max. total load F in kN					
Support	Bracket length in mm				
	100	200	300	400	
US 3 K/ 20 - 60	1.20	1.20	1.20	1.20	
US 3 K/ 70 - 120	1.20	1.20	1.20	1.20	
US 5 K/ 20 - 60	1.20	1.20	1.20	1.20	
US 5 K/ 70 - 120	1.20	1.20	1.20	1.20	



U support and bracket systems



Wall and support bracket AW 15

Type	Width mm	Dimension H mm	Dimension A mm	Hole Ø mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AW 15 11 FT	110	50	40	11	1.5	30	14.500	6420 65 6
AW 15 16 FT	160	55	40	11	1.5	30	21.000	6420 66 4
AW 15 21 FT	210	60	40	11	1.5	30	26.000	6420 68 0
AW 15 31 FT	310	65	40	11	1.5	30	32.500	6420 71 0
AW 15 41 FT	410	70	40	11	1.5	30	55.000	6420 74 5
AW 15 51 FT	510	75	40	11	1.5	20	72.000	6420 78 8
AW 15 56 FT	560	80	40	11	1.5	20	77.000	6420 79 6
AW 15 61 FT	610	80	40	11	1.5	20	85.000	6420 82 6

ST Steel

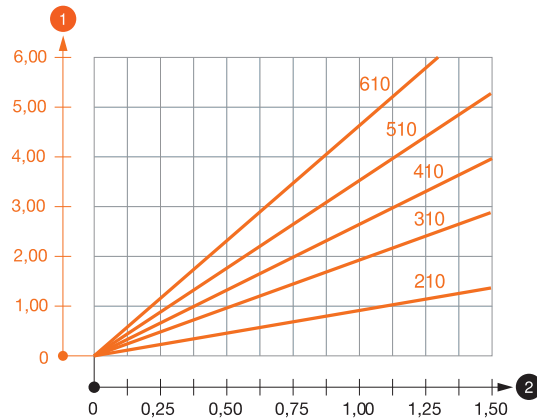
FT Hot-dip galvanised

/pc.

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

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

Load diagram, bracket, type AW 15



- 1 Bending of the bracket point at approved bracket load
 - 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm

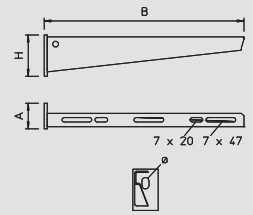
Characteristic anchor load values for wall and support bracket AW 15

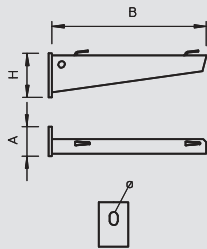
Bracket load		Max. total load F in kN							
F kN	Anchors	Bracket length in mm							
		100	150	200	300	400	500	600	
		2.4	0.73	0.65	0.61	0.49	0.44	0.41	0.38
4.3		1.31	1.16	1.08	0.88	0.78	0.73	0.66	

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 class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

Load values for AW 15 on suspended support

Max. total load F in kN		Bracket length in mm			
Support		100	200	300	400
		1.50	1.50	1.30	1.30
US 3 K/ 20 - 60		1.50	1.50	1.30	1.30
US 3 K/ 70 - 120		1.50	1.50	1.30	1.30
US 5 K/ 20 - 60		1.50	1.50	1.50	1.50
US 5 K/ 70 - 120		1.50	1.50	1.40	1.50





Wall and support bracket AWG 15

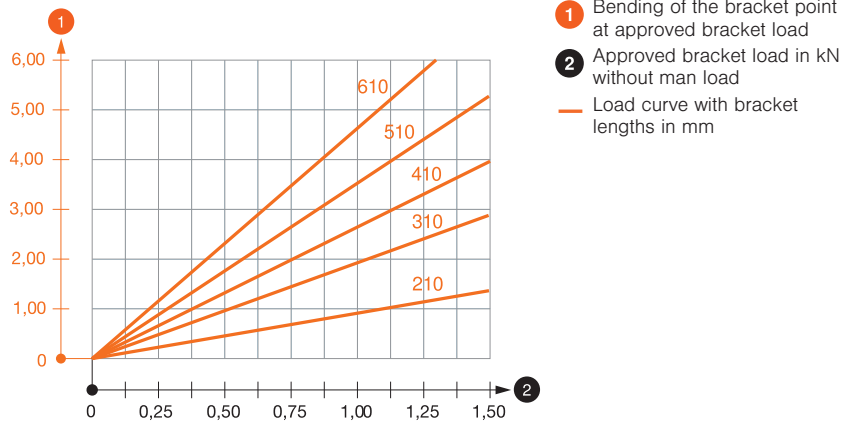
Type	Width mm	Dimension H mm	Dimension A mm	Hole Ø mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AW G 15 11 FT	110	50	40	11	1.5	30	14.000	6420 60 6
AW G 15 16 FT	160	55	40	11	1.5	30	20.000	6420 60 7
AW G 15 21 FT	210	60	40	11	1.5	30	26.000	6420 60 8
AW G 15 31 FT	310	65	40	11	1.5	30	35.000	6420 61 0
AW G 15 41 FT	410	70	40	11	1.5	30	56.000	6420 61 2
AW G 15 51 FT	510	75	40	11	1.5	20	69.000	6420 61 4
AW G 15 61 FT	610	80	40	11	1.5	20	84.000	6420 61 6

ST Steel **FT** Hot-dip galvanised /pc.

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

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

Load diagram, bracket type AW G 15



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

Bracket load		Max. total load F in kN							
F kN	Anchors	Bracket length in mm							
		100	150	200	300	400	500	600	
		2.4	0.73	0.65	0.61	0.49	0.44	0.41	0.38
4.3		1.31	1.16	1.08	0.88	0.78	0.73	0.66	

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 class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

Load values for AWG 15 on support

Max. total load F in kN		Bracket length in mm			
Support		100	200	300	400
		1.50	1.50	1.30	1.30
US 3 K/ 20 - 60		1.50	1.50	1.30	1.30
US 5 K/ 20 - 60		1.50	1.50	1.50	1.50
US 5 K/ 70 - 120		1.50	1.50	1.40	1.50



U support and bracket systems



Wall and support bracket AW 30

Type	Width mm	Dimension H mm	Dimension A mm	Hole Ø mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AW 30 11 FT	110	60	50	11	3.0	30	24.000	6419 70 4
AW 30 16 FT	160	65	50	11	3.0	30	34.000	6419 71 2
AW 30 21 FT	210	70	50	13	3.0	25	42.000	6419 72 0
AW 30 31 FT	310	80	50	13	3.0	25	63.000	6419 74 7
AW 30 41 FT	410	80	50	13	3.0	20	93.000	6419 76 3
AW 30 51 FT	510	90	50	13	3.0	10	132.500	6419 79 8
AW 30 56 FT	560	100	50	13	3.0	10	185.000	6419 84 4
AW 30 61 FT	610	100	50	13	3.0	10	167.000	6419 82 8
AW 30 71 FT	710	100	50	13	3.0	1	214.000	6419 83 6

ST Steel

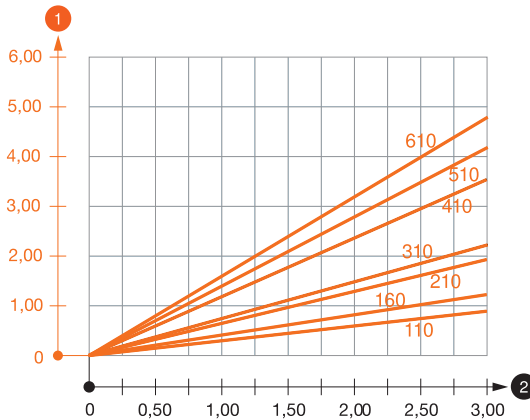
FT Hot-dip galvanised

/pc.

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

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

Load diagram, bracket, type AW 30



- 1 Bending of the bracket point at approved bracket load
 - 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm

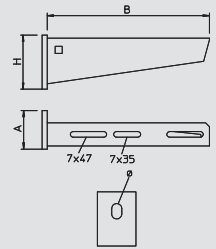
Characteristic anchor load values for wall and support bracket AW 30

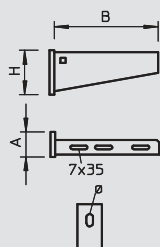
Bracket load		Max. total load F in kN						
F kN	Anchors	Bracket length in mm						
		100	150	200	300	400	500	600
4.3	2.00	1.49	1.35	1.19	0.92	0.89	0.89	
7.6	3.00	2.65	2.39	2.11	1.61	1.58	1.58	

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 class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

Load values for AW 30 on suspended support

Max. total load F in kN		Bracket length in mm			
Support		100	200	300	400
US 3 K/ 20 - 60		2.10	1.80	1.30	1.30
US 3 K/ 70 - 120		1.80	1.50	1.30	1.30
US 5 K/ 20 - 60		2.40	2.00	1.80	2.50
US 5 K/ 70 - 120		2.40	2.00	1.40	2.50





Wall and support bracket AW 55

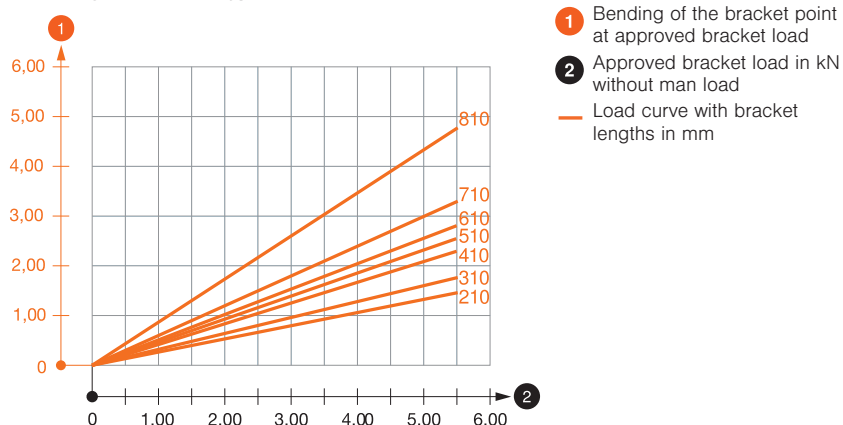
Type	Width mm	Dimension H mm	Dimension A mm	Hole Ø mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AW 55 21 FT	210	90	50	13.5	5.5	1	98.000	6418 55 4
AW 55 31 FT	310	110	50	13.5	5.5	1	130.000	6418 57 0
AW 55 41 FT	410	130	50	13.5	5.5	1	174.000	6418 59 7
AW 55 51 FT	510	145	60	13.5	5.5	1	259.000	6418 61 9
AW 55 56 FT	560	165	60	13.5	5.5	1	282.000	6418 62 7
AW 55 61 FT	610	165	60	13.5	5.5	1	305.000	6418 63 5
AW 55 71 FT	710	195	60	13.5	5.5	1	432.000	6418 65 1
AW 55 81 FT	810	195	60	13.5	5.5	1	497.000	6418 68 6
AW 55 91 FT	910	215	60	13.5	5.5	1	565.000	6418 70 8
AW 55 101 FT	1,010	230	60	13.5	5.5	1	645.000	6418 72 4

ST Steel **FT** Hot-dip galvanised /pc.

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

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

Load diagram, bracket, type AW 55



Characteristic anchor load values for wall and support bracket AW 55

Bracket load		Max. total load F in kN							
F kN	Anchors	Bracket length in mm							
	Appr.	200	300	400	500	600	700	800	
4.3	1.77	1.76	1.73	1.66	1.66	1.54	1.25		
7.6	3.15	3.10	3.08	2.94	2.94	2.73	2.22		
9.91	4.10	4.06	4.02	3.83	3.83	3.56	2.88		

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 class C20/25. Comply with the installation conditions of the DIBt approval (anchors).



U support and bracket systems



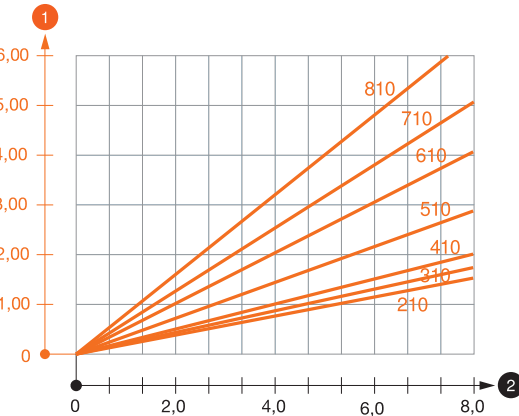
Wall bracket AW 80

Type	Width mm	Dimension H mm	Dimension A mm	Hole Ø mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AW 80 21 FT	210	110	50	17.5	8.0	1	109.000	6417 75 2
AW 80 31 FT	310	145	50	17.5	8.0	1	164.000	6417 77 9
AW 80 41 FT	410	165	50	17.5	8.0	1	219.000	6417 79 5
AW 80 51 FT	510	195	60	17.5	8.0	1	364.000	6417 81 7
AW 80 61 FT	610	210	60	17.5	8.0	1	444.000	6417 83 3
AW 80 71 FT	710	235	60	17.5	8.0	1	497.000	6417 86 8
AW 80 81 FT	810	260	60	17.5	8.0	1	637.000	6417 88 4

ST Steel **FT** Hot-dip galvanised /pc.

Heavy-duty wall bracket with welded head plate.
When fastening cable trays and ladders with truss-head bolts of size M6, please order large washers separately (perforation in bracket 9 x ...).

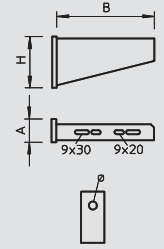
Load diagram, bracket type AW 80



Characteristic anchor load values for wall bracket AW 80

Bracket load		Max. total load F in kN							
Anchors	Appr.	Bracket length in mm							
		F kN	200	300	400	500	600	700	800
	7.6	4.43	4.69	4.32	4.36	4.01	3.42	3.20	
	9.91	5.78	6.12	5.63	5.69	5.23	4.46	4.18	

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

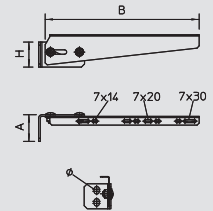


Wall bracket, variable AWVL FS

Type	Width mm	Dimension H mm	Dimension A mm	Hole Ø mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AWVL 11 FS	170	60	64	13	0.75	5	51.200	6419 46 4
AWVL 16 FS	220	60	64	13	0.65	5	55.200	6419 46 8
AWVL 21 FS	270	60	64	13	0.55	5	59.100	6419 47 2
AWVL 31 FS	370	60	64	13	0.4	5	67.200	6419 47 6
AWVL 41 FS	470	60	64	13	0.25	5	75.300	6419 48 0

ST Steel **FS** Strip-galvanised /pc.

Variable wall bracket for fixing to sloping or vaulted walls.
Usable bracket length dependent on adjustment angle. The largest possible adjustment angle is 60°.

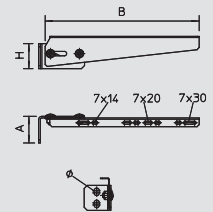


Wall bracket, variable AWVL FT

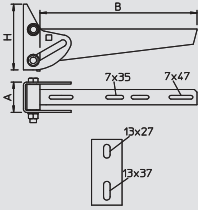
Type	Width mm	Dimension H mm	Dimension A mm	Hole Ø mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AWVL 11 FT	170	60	64	13	0.75	5	51.900	6419 50 1
AWVL 16 FT	220	60	64	13	0.65	5	56.200	6419 50 5
AWVL 21 FT	270	60	64	13	0.55	5	60.300	6419 50 9
AWVL 31 FT	370	60	64	13	0.4	5	68.900	6419 51 3
AWVL 41 FT	470	60	64	13	0.25	5	77.500	6419 51 7

ST Steel **FT** Hot-dip galvanised /pc.

Variable wall bracket for fixing to sloping or vaulted walls.
Usable bracket length dependent on adjustment angle. The largest possible adjustment angle is 60°.



U support and bracket systems



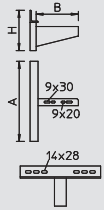
Wall bracket, variable AWW FT

Type	Width mm	Dimension H mm	Dimension A mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AWV 21 FT	210	130	60	0.9	5	150.000	6419 53 4
AWV 31 FT	310	130	60	0.9	5	170.000	6419 55 0
AWV 41 FT	410	130	60	0.9	5	171.000	6419 57 7
AWV 51 FT	510	130	60	0.9	5	235.000	6419 59 3
AWV 61 FT	610	130	60	0.9	5	240.000	6419 61 5

ST Steel **FT** Hot-dip galvanised /pc.

Variable wall bracket for fixing to sloping or vaulted walls.

Usable bracket length dependent on adjustment angle. The largest possible adjustment angle is 60°.



Wall and clamping bracket AWSS

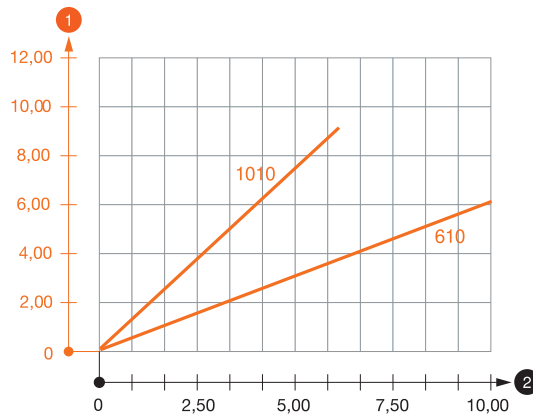
Type	Width mm	Dimension H mm	Dimension A mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AWSS 21 FT	210	335	400	10.0	1	323.000	6417 90 6
AWSS 31 FT	310	335	400	10.0	1	553.000	6417 91 0
AWSS 41 FT	410	335	400	10.0	1	598.000	6417 91 4
AWSS 51 FT	510	335	400	10.0	1	693.000	6417 91 8
AWSS 61 FT	610	335	400	10.0	1	763.000	6417 92 2
AWSS 71 FT	710	335	400	8.0	1	840.000	6417 92 6
AWSS 81 FT	810	341	400	7.0	1	923.000	6417 93 0
AWSS 91 FT	910	366	400	6.5	1	1,020.000	6417 93 4
AWSS 101 FT	1,010	359	400	6.0	1	1,134.000	6417 93 8

ST Steel **FT** Hot-dip galvanised /pc.

Wall bracket, heavy-duty.

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

Load diagram, bracket type AWSS



- 1 Bending of the bracket point at approved bracket load
 - 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm

Characteristic anchor load values for wall and clamping bracket AWSS

Bracket load							
	Anchors	Max. total load F in kN					
	Appr.	Bracket width in mm					
	F kN	200-600	700	800	900	1,000	
	7.6	10.00	8.00	7.00	6.50	6.00	
	9.91	10.00	8.00	8.00	6.50	6.00	

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. Observe the load capacity of the brackets (diagram) and the installation conditions of the DIBt approval (anchors).

The testing of the widths 710–1010 mm took place at the maximum route width (600 mm) with the load at the end of the bracket.



U support and bracket systems



Adapter plate

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
KA-E 45 FT	400	2	618.000	6346 75 8

ST Steel **FT** Hot-dip galvanised /pc.

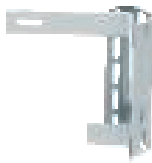
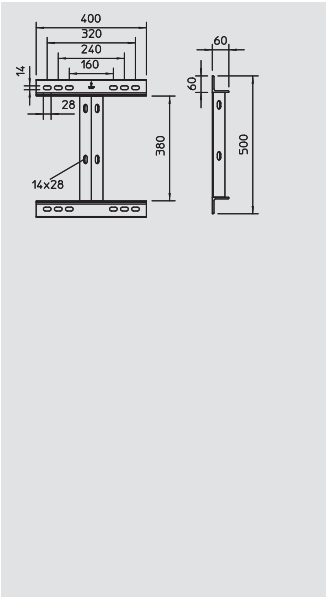
Adapter plate with slots for universal fastening to vertical steel girders and walls. Wall and support brackets are screwed to the adapter plate at a 45° angle.

To support cable support systems in building corners and jumps. The hexagonal bolts, type SKS 12 x 40 GF, are used to fasten the brackets to the adapter plate. Please order the appropriate quantity.

Characteristic anchor load values for adapter plate

Adapter plate, bracket load				
	Anchors	Max. total load F in kN		
	Appr.	KA-E 45 with bracket:		
	F kN	AW 30	AW 55	AW 80
	7.6	3.00	5.50	8.00

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. Observe the load capacity of the brackets (diagram) and the installation conditions of the DIBt approval (anchors). Mounting information: When using this component, please order a bracket which is 500 mm longer than the width of the tray/ladder.

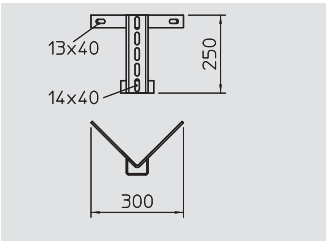


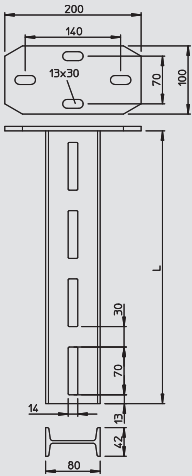
Corner seat

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KA-EA FT	1	201.000	6346 76 3

ST Steel **FT** Hot-dip galvanised /pc.

Corner seat with welded U profile for fastening to 90° external corners. Wall and support brackets are screwed to the U profile.





IS 8 support



Type	Length mm	Tensile load kN	Bracket length 200 kN	Bracket length 400 kN	Bracket length 600 kN	Pack. pcs	Weight kg/100 pcs.	Item No.
IS 8 K 20 FT	200	12	9.6	7.0	5.0	1	209.000	6361 02 1
IS 8 K 30 FT	300	12	9.6	7.0	5.0	5	265.000	6361 05 6
IS 8 K 40 FT	400	12	9.6	7.0	5.0	1	325.000	6361 07 2
IS 8 K 50 FT	500	12	9.6	7.0	5.0	1	383.000	6361 09 9
IS 8 K 60 FT	600	12	9.6	7.0	5.0	1	441.000	6361 11 0
IS 8 K 70 FT	700	12	9.6	7.0	5.0	1	499.000	6361 13 7
IS 8 K 80 FT	800	12	9.6	7.0	5.0	1	557.000	6361 15 3
IS 8 K 90 FT	900	12	9.6	7.0	5.0	1	615.000	6361 18 8
IS 8 K 100 FT	1,000	12	9.6	7.0	5.0	1	673.000	6361 21 8
IS 8 K 110 FT	1,100	12	9.6	7.0	5.0	1	731.000	6361 23 4
IS 8 K 120 FT	1,200	12	9.6	7.0	5.0	1	789.000	6361 25 0
IS 8 K 130 FT	1,300	12	9.6	7.0	5.0	1	847.000	6361 27 7
IS 8 K 140 FT	1,400	12	9.6	7.0	5.0	1	905.000	6361 29 3
IS 8 K 150 FT	1,500	12	9.6	7.0	5.0	1	963.000	6361 31 5
IS 8 K 160 FT	1,600	12	9.6	7.0	5.0	1	1,021.000	6361 33 1
IS 8 K 170 FT	1,700	12	9.6	7.0	5.0	1	1,079.000	6361 36 6
IS 8 K 180 FT	1,800	12	9.6	7.0	5.0	1	1,137.000	6361 38 2
IS 8 K 200 FT	2,000	12	9.6	7.0	5.0	1	1,253.000	6361 42 0

ST Steel

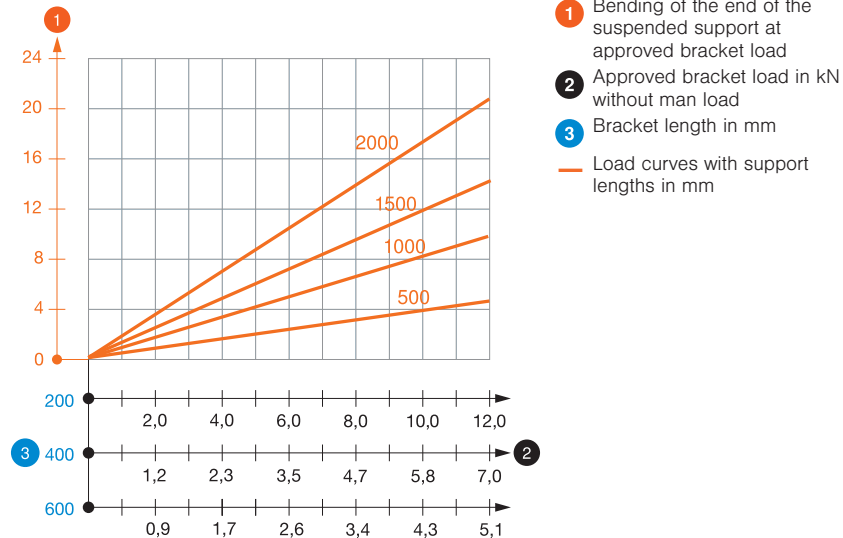
FT Hot-dip galvanised

/pc.

I suspended support with welded head plate. For fastening to horizontal concrete ceilings and steel girders.

Single and double-sided brackets of type AS 15, AS 30 and AS 55 can be fastened to the IS 8 K suspended support. The height of the brackets is infinitely adjustable.

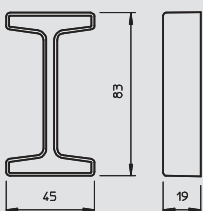
Load diagram, I support, type IS 8 K



Characteristic anchor load values for IS 8 K suspended support

Single-sided bracket load								Double-sided bracket load							
Anchors		Max. total load F in kN						Anchors		Max. total load F in kN					
Appr.		Bracket length in mm						Appr.		Bracket length in mm					
F kN		100	200	300	400	500	600	F kN		100	200	300	400	500	600
4.3	3.45	2.75	2.32	1.95	1.72	1.52		4.3	6.35	5.45	4.85	4.35	3.85	3.45	
7.6	6.18	4.73	3.98	3.39	3.00	2.64		7.6	10.00	9.55	8.81	7.90	7.26	6.76	
9.91	8.20	6.45	5.35	4.55	3.95	3.55		9.91	10.00	10.00	10.00	10.00	9.45	8.85	

Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing $a_i = 14$ cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).



Protective cap



Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
IS 8 KS OR	Pastel orange	20	0.800	6338 51 9

PE Polyethylene

/pc.

Protective cap for end cover of IS 8 supports.

I support systems



IS 8 support

Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
IS 8 30 FT	300	5	174.000	6337 03 1
IS 8 40 FT	400	5	232.000	6337 05 8
IS 8 50 FT	500	1	290.000	6337 06 6
IS 8 60 FT	600	1	348.000	6337 07 4
IS 8 70 FT	700	1	406.000	6337 08 2
IS 8 80 FT	800	1	464.000	6337 09 0
IS 8 90 FT	900	1	522.000	6337 10 4
IS 8 100 FT	1,000	1	580.000	6337 11 2
IS 8 110 FT	1,100	1	638.000	6337 12 0
IS 8 120 FT	1,200	1	696.000	6337 13 9
IS 8 130 FT	1,300	1	754.000	6337 14 7
IS 8 140 FT	1,400	1	812.000	6337 15 5
IS 8 150 FT	1,500	1	870.000	6337 16 3
IS 8 160 FT	1,600	1	928.000	6337 17 1
IS 8 170 FT	1,700	1	986.000	6337 19 8
IS 8 180 FT	1,800	1	1,044.000	6337 20 1
IS 8 190 FT	1,900	1	1,102.000	6337 22 8
IS 8 200 FT	2,000	1	1,160.000	6337 23 6
IS 8 300 FT	3,000	1	1,740.000	6337 24 4
IS 8 600 FT	6,000	1	3,460.000	6337 25 2

ST Steel **FT** Hot-dip galvanised /pc.

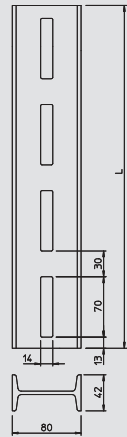
I support in fixed lengths. Dimensions 80 x 42 mm.

Single and double-sided brackets of type AS 15, AS 30 and AS 55 can be fastened to the IS 8 I support. The height of the brackets is infinitely adjustable.

Characteristic anchor load values for IS 8 suspended support

Wall fastening over the entire length								Side fastening on girder							
Anchors		Max. total load F in kN						Anchors		Max. total load F in kN					
Appr.		Bracket length in mm						Appr.		Bracket length in mm					
F kN		100	200	300	400	500	600	F kN		100	200	300	400	500	600
4.3	7.80	6.78	5.95	5.17	4.64	4.14		4.3	9.73	8.22	7.02	6.14	5.47	4.92	
7.6	11.35	8.25	7.63	7.11	6.47	5.38		7.6	12.53	10.98	8.52	7.65	6.78	6.13	

Max. total load F = cable weight + cable tray + bracket + support. The load capacity values increase considerably when used in uncracked concrete. Observe the load capacity of the brackets (diagram) and the installation conditions of the DIBt approval (anchors).

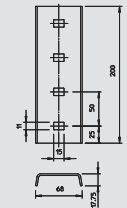


I support connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VIS 8 FT	5	87.000	6018 30 0

ST Steel **FT** Hot-dip galvanised /pc.

I support connector to connect IS 8 supports.
Including appropriate fastening material.

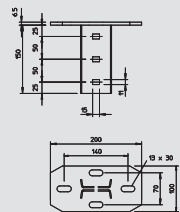


Head plate, lengthwise

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KI 8 FT	10	155.000	6347 05 3

ST Steel **FT** Hot-dip galvanised /pc.

Head plate for mounting on IS 8 support. The cable trays and ladders run in a straight direction.
Including appropriate fastening material.
Limit the length of the support to max. 2000 mm.

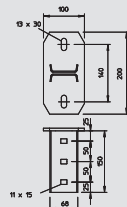


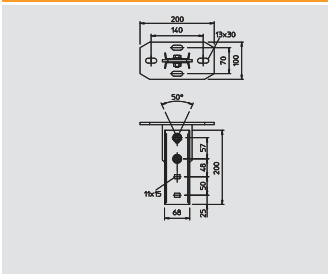
Head plate, crosswise

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KI 8 NOK FT	10	163.000	6347 06 1

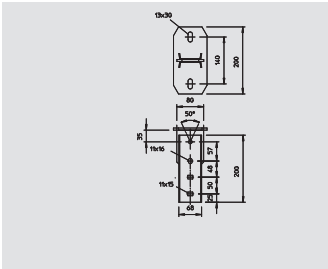
ST Steel **FT** Hot-dip galvanised /pc.

Head plate for installation in IS 8 support. The cable trays and ladders run in a transverse direction.
Including appropriate fastening material.
Limit the length of the support to max. 2000 mm.

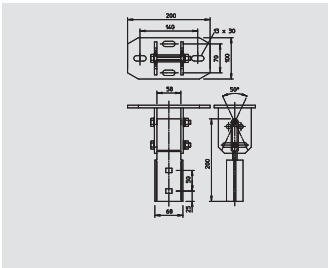




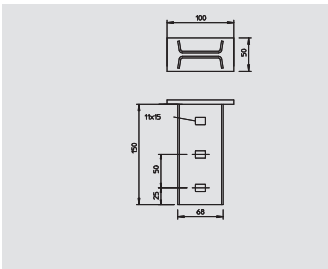
Head plate, variable			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KI 8 VQP FT	1	219.000	6348 10 6
ST Steel			/pc.
FT Hot-dip galvanised			
Variable head plate, adjustable in straight direction, for installation on IS 8 support. Including appropriate fastening material. Limit the length of the support to max. 2000 mm.			



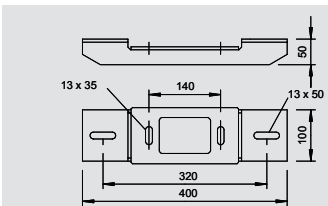
Head plate, variable, longitudinal			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KI 8 VLK FT	1	227.000	6348 15 7
ST Steel			/pc.
FT Hot-dip galvanised			
Variable head plate, adjustable in transverse direction, for installation on IS 8 support. Including appropriate fastening material. Limit the length of the support to max. 2000 mm.			



Head plate, variable, transverse			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KI 8 VLP FT	1	263.000	6347 84 3
ST Steel			/pc.
FT Hot-dip galvanised			
Variable head plate, adjustable in transverse direction, for installation on IS 8 support. Including appropriate fastening material. Limit the length of the support to max. 2000 mm.			



Head plate for welding			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KI 8 AOX FT	1	90.000	6347 08 8
ST Steel			/pc.
FT Hot-dip galvanised			
Head plate for welded mounting on IS 8 support. Including appropriate fixing material. Limit the length of the support to max. 2,000 mm.			



Adapter head plate, symmetrical			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KA-SY FT	1	280.000	6346 80 4
ST Steel			/pc.
FT Hot-dip galvanised			



Adapter head plate, symmetrical, to increase the load capacity of supports, type US 7 K and IS 8 K.

The adapter head plate increases the load capacity of the IS 8 K and US 7 K supports, taking the characteristic anchor values into account.

Characteristic anchor load values for adapter head plate, symmetrical



Diagram showing a single-sided adapter head plate with dimensions: t (thickness), h (height), b (width), and a (distance from edge to center of anchor).

Anchors		Max. total load F in kN					
Appr.		Bracket length in mm					
F kN	100	200	300	400	500	600	
7.6	5.56	4.98	4.58	4.13	3.81	3.54	
9.91	7.44	6.66	6.05	5.54	5.10	4.73	



Diagram showing a double-sided adapter head plate with dimensions: t (thickness), h (height), b (width), and a (distance from edge to center of anchor).

Anchors		Max. total load F in kN					
Appr.		Bracket length in mm					
F kN	100	200	300	400	500	600	
7.6	10.00	10.00	9.16	8.26	7.62	7.08	
9.91	10.00	10.00	10.00	10.00	10.00	9.46	

Max. total load F = cable weight + cable tray + bracket + support. The tabular values for double-sided loads take the available axis spacing $a_i = 32$ cm into account. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Adapter head plate, symmetrical, single-sided								Adapter head plate, symmetrical, double-sided													
		Anchors		Max. total load F in kN								Anchors		Max. total load F in kN							
		Appr.		Bracket length in mm								Appr.		Bracket length in mm							
		F kN		100	200	300	400	500	600			F kN		100	200	300	400	500	600		
				7.6	5.56	4.98	4.58	4.13	3.81	3.54					7.6	10.00	10.00	9.16	8.26	7.62	7.08
				9.91	7.44	6.66	6.05	5.54	5.10	4.73					9.91	10.00	10.00	10.00	10.00	10.00	9.46

Adapter head plate, symmetrical, single-sided								Adapter head plate, symmetrical, double-sided											
		Anchors		Max. total load F in kN								Anchors		Max. total load F in kN					
		Appr.		Bracket length in mm								Appr.		Bracket length in mm					
				F kN										F kN					
		100	200	300	400	500	600		100	200	300	400	500	600					
		7.6	5.56	4.98	4.58	4.13	3.81	3.54		7.6	10.00	10.00	9.16	8.26	7.62	7.08			
		9.91	7.44	6.66	6.05	5.54	5.10	4.73		9.91	10.00	10.00	10.00	10.00	10.00	9.46			

Adapter head plate, symmetrical, single-sided								Adapter head plate, symmetrical, double-sided											
		Anchors		Max. total load F in kN								Anchors		Max. total load F in kN					
		Appr.		Bracket length in mm								Appr.		Bracket length in mm					
				F kN										F kN					
		100	200	300	400	500	600		100	200	300	400	500	600					
		7.6	5.56	4.98	4.58	4.13	3.81	3.54	7.6	10.00	10.00	9.16	8.26	7.62	7.08				
		9.91	7.44	6.66	6.05	5.54	5.10	4.73	9.91	10.00	10.00	10.00	10.00	10.00	9.46				

Adapter head plate, symmetrical, single-sided								Adapter head plate, symmetrical, double-sided											
		Anchors		Max. total load F in kN								Anchors		Max. total load F in kN					
		Appr.		Bracket length in mm								Appr.		Bracket length in mm					
				F kN										F kN					
		100	200	300	400	500	600		100	200	300	400	500	600					
		7.6	5.56	4.98	4.58	4.13	3.81	3.54		7.6	10.00	10.00	9.16	8.26	7.62	7.08			
		9.91	7.44	6.66	6.05	5.54	5.10	4.73		9.91	10.00	10.00	10.00	10.00	10.00	9.46			

Adapter head plate, symmetrical, single-sided								Adapter head plate, symmetrical, double-sided											
		Anchors		Max. total load F in kN								Anchors		Max. total load F in kN					
		Appr.		Bracket length in mm								Appr.		Bracket length in mm					
				F kN										F kN					
		100	200	300	400	500	600		100	200	300	400	500	600					
		7.6	5.56	4.98	4.58	4.13	3.81	3.54	7.6	10.00	10.00	9.16	8.26	7.62	7.08				
		9.91	7.44	6.66	6.05	5.54	5.10	4.73	9.91	10.00	10.00	10.00	10.00	10.00	9.46				

Adapter head plate, symmetrical, single-sided								Adapter head plate, symmetrical, double-sided											
		Anchors		Max. total load F in kN								Anchors		Max. total load F in kN					
		Appr.		Bracket length in mm								Appr.		Bracket length in mm					
		F kN	100	200	300	400	500	600	F kN	100	200	300	400	500	600				
		7.6	5.56	4.98	4.58	4.13	3.81	3.54	7.6	10.00	10.00	9.16	8.26	7.62	7.08				
		9.91	7.44	6.66	6.05	5.54	5.10	4.73	9.91	10.00	10.00	10.00	10.00	10.00	9.46				

Adapter head plate, symmetrical, single-sided								Adapter head plate, symmetrical, double-sided											
		Anchors		Max. total load F in kN								Anchors		Max. total load F in kN					
		Appr.		Bracket length in mm								Appr.		Bracket length in mm					
		F kN	100	200	300	400	500	600	F kN	100	200	300	400	500	600				
		7.6	5.56	4.98	4.58	4.13	3.81	3.54	7.6	10.00	10.00	9.16	8.26	7.62	7.08				
		9.91	7.44	6.66	6.05	5.54	5.10	4.73	9.91	10.00	10.00	10.00	10.00	10.00	9.46				

Adapter head plate, symmetrical, single-sided								Adapter head plate, symmetrical, double-sided											
		Anchors		Max. total load F in kN								Anchors		Max. total load F in kN					
		Appr.		Bracket length in mm								Appr.		Bracket length in mm					
		F kN	100	200	300	400	500	600	F kN			100	200	300	400	500	600		
		7.6		5.56	4.98	4.58	4.13	3.81	3.54			7.6		10.00	10.00	9.16	8.26	7.62	7.08
		9.91		7.44	6.66	6.05	5.54	5.10	4.73			9.91		10.00	10.00	10.00	10.00	10.00	9.46

Adapter head plate, symmetrical, single-sided								Adapter head plate, symmetrical, double-sided											
		Anchors		Max. total load F in kN								Anchors		Max. total load F in kN					
		Appr.		Bracket length in mm								Appr.		Bracket length in mm					
		F kN	100	200	300	400	500	600	F kN			100	200	300	400	500	600		
		7.6		5.56	4.98	4.58	4.13	3.81	3.54			7.6		10.00	10.00	9.16	8.26	7.62	7.08
		9.91		7.44	6.66	6.05	5.54	5.10	4.73			9.91		10.00	10.00	10.00	10.00	10.00	9.46

Adapter head plate, symmetrical, single-sided								Adapter head plate, symmetrical, double-sided											
		Anchors		Max. total load F in kN								Anchors		Max. total load F in kN					
		Appr.		Bracket length in mm								Appr.		Bracket length in mm					
		F kN	100	200	300	400	500	600	F kN			100	200	300	400	500	600		
		7.6		5.56	4.98	4.58	4.13	3.81	3.54			7.6		10.00	10.00	9.16	8.26	7.62	7.08
		9.91		7.44	6.66	6.05	5.54	5.10	4.73			9.91		10.00	10.00	10.00	10.00	10.00	9.46

Adapter head plate, symmetrical, single-sided								Adapter head plate, symmetrical, double-sided											
		Anchors		Max. total load F in kN								Anchors		Max. total load F in kN					
		Appr.		Bracket length in mm								Appr.		Bracket length in mm					
		F kN	100	200	300	400	500	600	F kN			100	200	300	400	500	600		
		7.6		5.56	4.98	4.58	4.13	3.81	3.54			7.6		10.00	10.00	9.16	8.26	7.62	7.08
		9.91		7.44	6.66	6.05	5.54	5.10	4.73			9.91		10.00	10.00	10.00	10.00	10.00	9.46

Adapter head plate, symmetrical, single-sided								Adapter head plate, symmetrical, double-sided											
		Anchors		Max. total load F in kN								Anchors		Max. total load F in kN					
		Appr.		Bracket length in mm								Appr.		Bracket length in mm					
		F kN	100	200	300	400	500	600	F kN			100	200	300	400	500	600		
		7.6		5.56	4.98	4.58	4.13	3.81	3.54			7.6		10.00	10.00	9.16	8.26	7.62	7.08
		9.91		7.44	6.66	6.05	5.54	5.10	4.73			9.91		10.00	10.00	10.00	10.00	10.00	9.46

Adapter head plate, symmetrical, single-sided								Adapter head plate, symmetrical, double-sided											
		Anchors		Max. total load F in kN								Anchors		Max. total load F in kN					
		Appr.		Bracket length in mm								Appr.		Bracket length in mm					
		F kN	100	200	300	400	500	600	F kN			100	200	300	400	500	600		
		7.6		5.56	4.98	4.58	4.13	3.81	3.54			7.6		10.00	10.00	9.16	8.26	7.62	7.08
		9.91		7.44	6.66	6.05	5.54	5.10	4.73			9.91		10.00	10.00	10.00	10.00	10.00	9.46

Adapter head plate, symmetrical, single-sided								Adapter head plate, symmetrical, double-sided											
		Anchors		Max. total load F in kN								Anchors		Max. total load F in kN					
		Appr.		Bracket length in mm								Appr.		Bracket length in mm					
		F kN	100	200	300	400	500	600	F kN	100	200	300	400	500	600				
		7.6	5.56	4.98	4.58	4.13	3.81	3.54	7.6	10.00	10.00	9.16	8.26	7.62	7.08				
		9.91	7.44	6.66	6.05	5.54	5.10	4.73	9.91	10.00	10.00	10.00	10.00	10.00	9.46				

Adapter head plate, symmetrical, single-sided								Adapter head plate, symmetrical, double-sided											
		Anchors		Max. total load F in kN								Anchors		Max. total load F in kN					
		Appr.		Bracket length in mm								Appr.		Bracket length in mm					
		F kN	100	200	300	400	500	600	F kN			100	200	300	400	500	600		
		7.6		5.56	4.98	4.58	4.13	3.81	3.54			7.6		10.00	10.00	9.16	8.26	7.62	7.08
		9.91		7.44	6.66	6.05	5.54	5.10	4.73			9.91		10.00	10.00	10.00	10.00	10.00	9.46

Adapter head plate, symmetrical, single-sided								Adapter head plate, symmetrical, double-sided											
		Anchors		Max. total load F in kN								Anchors		Max. total load F in kN					
		Appr.		Bracket length in mm								Appr.		Bracket length in mm					
		F kN		100	200	300	400	500	600			F kN		100	200	300	400	500	600
		7.6		5.56	4.98	4.58	4.13	3.81	3.54			7.6		10.00	10.00	9.16	8.26	7.62	7.08
		9.91		7.44	6.66	6.05	5.54	5.10	4.73			9.91		10.00	10.00	10.00	10.00	10.00	9.46

I support systems



Adapter head plate, asymmetrical

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KA-ASY FT	1	280.000	6346 82 0

ST Steel **FT** Hot-dip galvanised /pc.

Adapter head plate, asymmetrical, to increase the load capacity of supports, type US 7 K and IS 8 K.

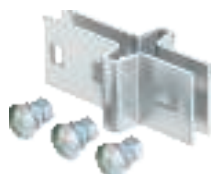
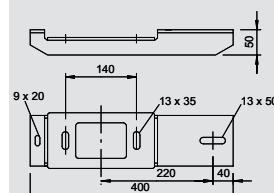
The adapter head plate increases the load capacity of the IS 8 K and US 7 K supports, taking the characteristic anchor values into account.

Characteristic anchor load values for adapter head plate, asymmetrical

Adapter head plate, asymmetrical, single-sided		Max. total load F in kN						
Anchors	Appr.	Bracket length in mm						
		F kN	100	200	300	400	500	600
	7.6	4.49	4.13	3.81	3.54	2.74	2.56	
	9.91	6.02	5.52	5.10	4.73	4.63	3.46	

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

The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).



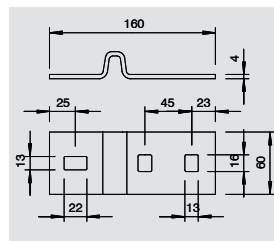
Support strap

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
AHIS 8 FT	10	88.000	6019 06 4

ST Steel **FT** Hot-dip galvanised /pc.

Support strap for right-angled connection of I supports.

Including appropriate fastening material.



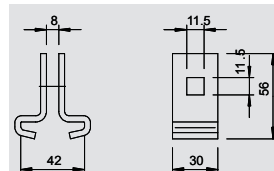
Support claw

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
TGK 30 42 FT	10	15.000	6018 96 3

ST Steel **FT** Hot-dip galvanised /pc.

Support claw with truss-head bolt, type FRS M10 x 25 for mounting on the IS 8 support.

The support claw can also be used in conjunction with the heavy-duty ladder, type SLS 80.



Mounting angle

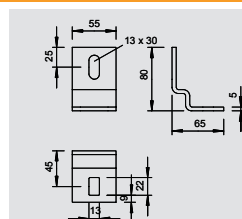
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
BW 80 55 FT	10	32.000	6019 52 8

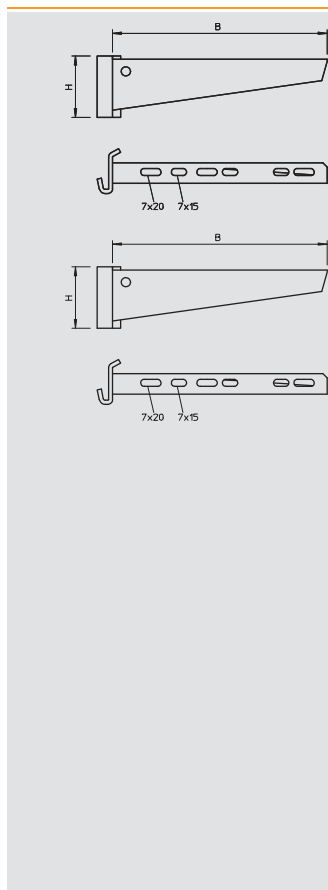
ST Steel **FT** Hot-dip galvanised /pc.

Mounting angle for mounting IS 8 supports on the wall.

The mounting angle can also be used in conjunction with the heavy-duty vertical ladder, type SLS 80.

Including fastening bolt M12x30.





Support bracket AS 15



Type	Width mm	Dimension H mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AS 15 11 FT	110	50	1.5	30	21.500	6421 32 6
AS 15 16 FT	160	55	1.5	30	26.500	6421 33 4
AS 15 21 FT	210	60	1.5	25	32.000	6421 35 0
AS 15 31 FT	310	65	1.5	25	42.000	6421 38 5
AS 15 41 FT	410	70	1.5	30	59.000	6421 42 3
AS 15 51 FT	510	75	1.5	10	73.000	6421 46 6
AS 15 61 FT	610	80	1.5	10	90.000	6421 49 0

ST Steel **FT** Hot-dip galvanised

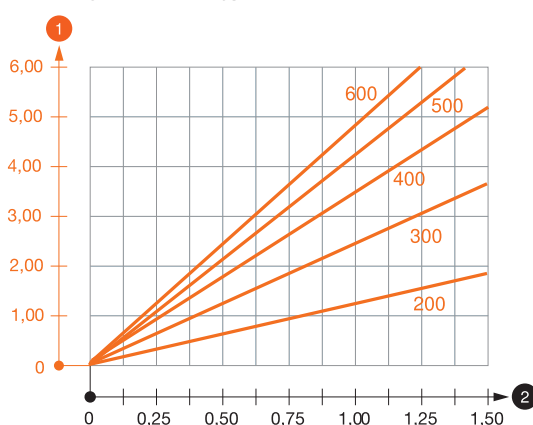
/pc.

Light-duty support bracket for infinitely adjustable fastening on IS 8 support.

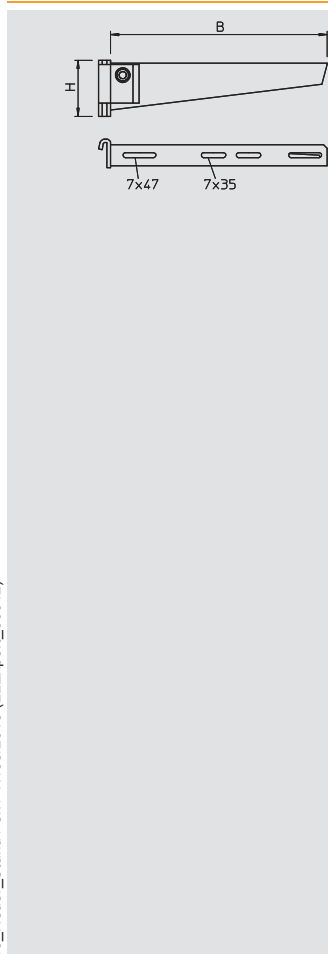
The support bracket can be fastened to both sides of the I support.

Tensioning hooks, including nuts and washer, can also be ordered individually under item number 6437184.

Load diagram, bracket type AS 15



- 1 Bending of the bracket point at approved bracket load
 - 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm



Support bracket AS 30



Type	Width mm	Dimension H mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AS 30 11 FT	110	60	3.0	30	30.000	6418 75 9
AS 30 16 FT	160	65	3.0	30	42.000	6418 76 7
AS 30 21 FT	210	70	3.0	25	49.000	6418 77 5
AS 30 31 FT	310	80	3.0	25	78.000	6418 79 1
AS 30 41 FT	410	80	3.0	20	110.000	6418 81 3
AS 30 51 FT	510	90	3.0	10	150.000	6418 84 8
AS 30 56 FT	560	100	3.0	10	165.000	6418 85 6
AS 30 61 FT	610	100	3.0	10	180.000	6418 86 4
AS 30 71 FT	710	100	3.0	1	214.000	6418 87 2

ST Steel **FT** Hot-dip galvanised

/pc.

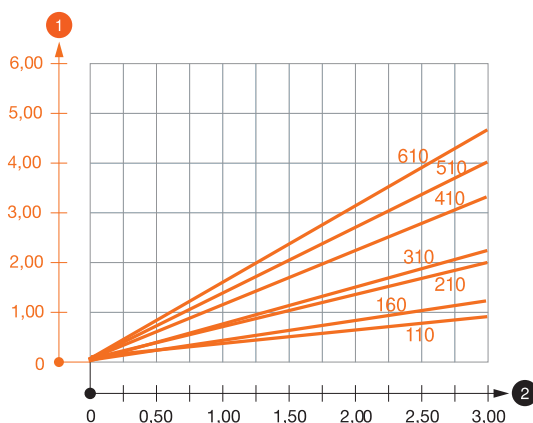
Medium-duty support bracket for infinitely adjustable fastening on IS 8 support.

The support bracket can be fastened to both sides of the I support. The clamping lug, including nut and washer can also be ordered separate.

For width 110 to 210, please order them under item number 6418961.

For width 310 to 610, please order them under item number 6419003.

Load diagram, bracket type AS 30



- 1 Bending of the bracket point at approved bracket load
 - 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm



I support systems



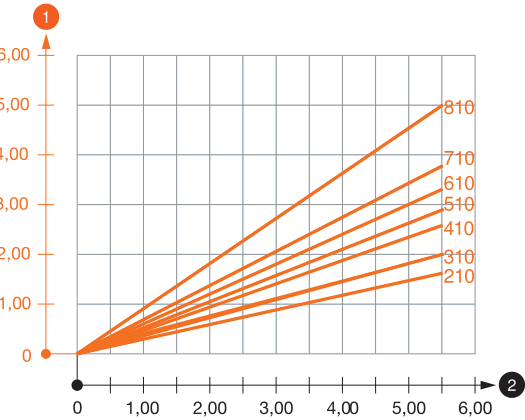
Support bracket AS 55

Type	Width mm	Dimension H mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AS 55 21 FT	210	90	5.5	1	81.000	6419 04 6
AS 55 31 FT	310	110	5.5	1	133.000	6419 06 2
AS 55 41 FT	410	130	5.5	1	183.000	6419 08 9
AS 55 51 FT	510	145	5.5	1	244.000	6419 10 0
AS 55 56 FT	560	165	5.5	1	260.000	6419 11 9
AS 55 61 FT	610	165	5.5	1	296.000	6419 12 7
AS 55 71 FT	710	195	5.5	1	400.000	6419 14 3
AS 55 81 FT	810	195	5.5	1	465.000	6419 17 8
AS 55 91 FT	910	195	5.5	1	530.000	6419 19 4
AS 55 101 FT	1,010	195	5.5	1	596.000	6419 20 8

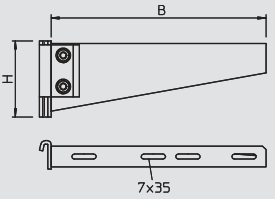
ST Steel **FT** Hot-dip galvanised /pc.

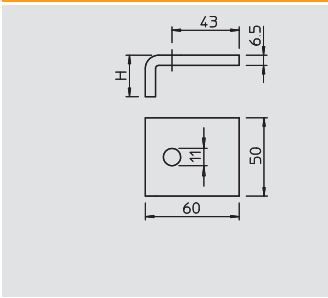
Heavy-duty support bracket for infinitely adjustable fastening on IS 8 support.
The support bracket can be fastened to both sides of the I support.

Load diagram, bracket type AS 55



- 1 Bending of the bracket point at approved bracket load
- 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm



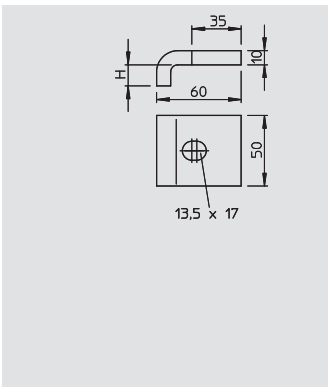


Clamping lug

Type	Height mm	Bolt	Pack. pcs	Weight kg/100 pcs.	Item No.
KL1 10 S FT	10	M10 x 40	10	22.500	6354 10 6
KL1 15 S FT	15	M10 x 50	10	24.000	6354 11 4
KL1 20 S FT	20	M10 x 50	10	25.000	6354 12 2

ST Steel FT Hot-dip galvanised /pc.

Clamping lug, type KL1, to fasten light support structures to steel girder flanges.
Choose the clamping lug according to the thickness of the flange.

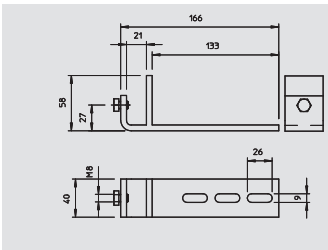


Clamping angle KWH

Type	Height mm	F in kN kN	Bolt	Pack. pair	Weight kg/100 pairs	Item No.
KWH 5 FT	5	5.7	M12 x 40	10	63.000	6355 02 1
KWH 10 FT	10	5.7	M12 x 50	10	68.000	6355 04 8
KWH 15 FT	15	5.7	M12 x 50	10	70.000	6355 05 6
KWH 20 FT	20	5.7	M12 x 60	10	76.000	6355 06 4
KWH 25 FT	25	5.7	M12 x 60	10	80.000	6355 07 2

ST Steel FT Hot-dip galvanised /pair

Clamping angle, with hammer-head bolt, type KWH, for fixing in the mounting rail, type CPS 5.
Choose the clamping angle according to the thickness of the flange.
The clamping angle is used in conjunction with profile rails of slot width 22 mm (e.g. type CPS 5).

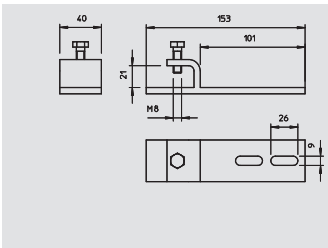


Beam clamp, vertical BFK 166

Type	Dimen- sion B mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BFK 166 58 20 FT	166	133	20	45.000	6003 88 8

ST Steel FT Hot-dip galvanised /pc.

Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp is vertical routing.

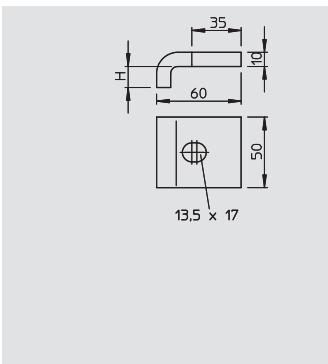


Beam clamp, horizontal BFK 153

Type	Dimen- sion B mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BFK 153 33 FT	153	101	25	37.000	6003 88 4

ST Steel FT Hot-dip galvanised /pc.

Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp is horizontal routing.

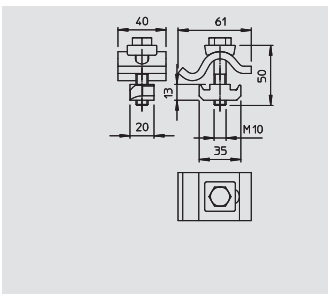


Clamping profile KWS

Type	Height mm	F in kN kN	Bolt	Pack. pair	Weight kg/100 pairs	Item No.
KWS 5 FT	5	5.7	M12 x 40	10	63.000	6355 21 8
KWS 10 FT	10	5.7	M12 x 50	10	68.000	6355 22 6
KWS 15 FT	15	5.7	M12 x 50	10	70.000	6355 23 4
KWS 20 FT	20	5.7	M12 x 60	10	76.000	6355 24 2
KWS 25 FT	25	5.7	M12 x 60	10	80.000	6355 25 0

ST Steel FT Hot-dip galvanised /pair

Clamping angle, with hexagonal bolt, type KWS, for direct fixing of constructions to steel girder flanges.
Choose the clamping angle according to the thickness of the flange.



Chuck jaw, light TKH

Type	Height mm	F in kN kN	Pack. pair	Weight kg/100 pairs	Item No.
TKH-L-25 FT	25	10.0	10	46.000	6355 81 2

ST Steel FT Hot-dip galvanised /pair

Chuck jaw with slide nut for fixing profile rails to steel girders.
The clamping range of the chuck jaw is limited to the maximum fastening thickness, 25 mm.
The chuck jaw is used in conjunction with profile rails of slot width 18 and 22 mm (type CPS 4; CPS 5; MS 22/41).

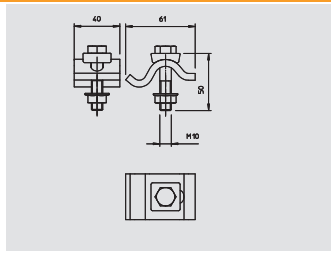


Clamp fastening systems



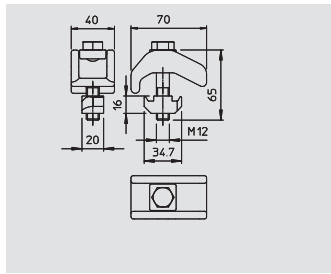
Chuck jaw, light TKS

Type	Height	F in kN	Pack.	Weight	Item No.
	mm	kN	pair	kg/100 pairs	
TKS-L-25 FT	25	10.0	10	39.000	6355 80 8
ST Steel FT Hot-dip galvanised /pair					
Chuck jaw with hexagonal nut for direct fastening of structures to steel girders. The clamping range of the chuck jaw is limited to the maximum fastening thickness, 25 mm.					



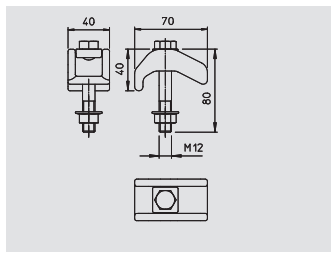
Chuck jaw, heavy TKH

Type	Height	F in kN	Pack.	Weight	Item No.
	mm	kN	pair	kg/100 pairs	
TKH-S-30 FT	30	21.0	10	81.000	6355 80 4
ST Steel FT Hot-dip galvanised /pair					
Heavy-duty chuck jaw with slide nut for fastening profile rails to steel girders. The clamping range of the chuck jaw is limited to the maximum fastening thickness, 30 mm. The chuck jaw is used in conjunction with profile rails of slot width 22 mm (e.g. type CPS 5).					



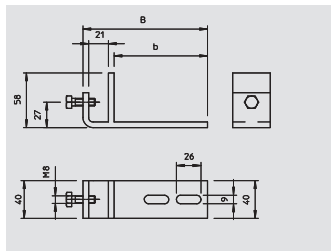
Chuck jaw, heavy TKS

Type	Height	F in kN	Pack.	Weight	Item No.
	mm	kN	pair	kg/100 pairs	
TKS-S-30 FT	30	21.0	10	82.000	6355 80 0
ST Steel FT Hot-dip galvanised /pair					
Heavy-duty chuck jaw with hexagonal nut for direct fastening of structures to steel girders. The clamping range of the chuck jaw is limited to the maximum fastening thickness, 30 mm.					



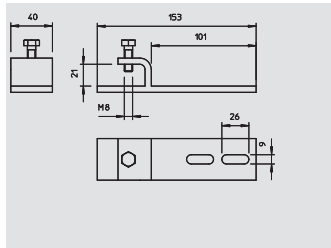
Beam clamp, vertical BFK 132

Type	Dimen- sion B	Dimen- sion b	Pack.	Weight	Item No.
	mm	mm	pcs	kg/100 pcs.	
BFK 132 58 FT	132	99	25	39.000	6003 88 0
ST Steel FT Hot-dip galvanised /pc.					
Beam clamp for clamping on the steel girder. The cable support system attached to the beam clamp is vertical routing.					



Beam clamp, horizontal BFK 187

Type	Dimen- sion B	Dimen- sion b	Pack.	Weight	Item No.
	mm	mm	pcs	kg/100 pcs.	
BFK 187 33 FT	187	135	20	43.000	6003 89 2
ST Steel FT Hot-dip galvanised /pc.					
Beam clamp for clamping on the steel girder. The cable support system attached to the beam clamp is horizontal routing.					



Adapter plate

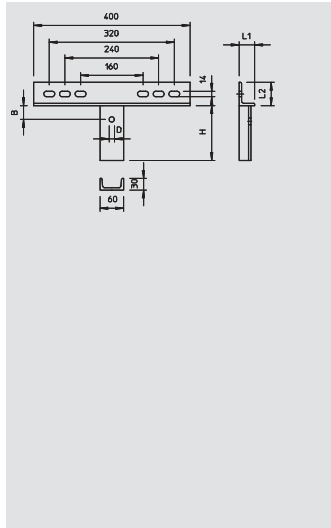
Type	Height	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
KA-AW 30 FT	140	1	260.000	6346 71 5
KA-AW 80 FT	270	1	450.000	6346 73 1
ST Steel FT Hot-dip galvanised /pc.				

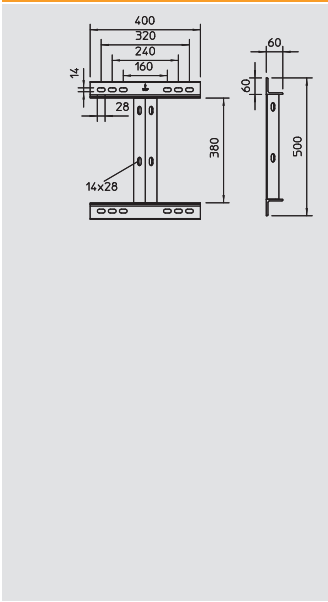
Adapter plate with slots for universal fastening to vertical steel girders and walls.
The bracket types AW 30, AW 55 ad AW 80 can be screwed to the adapter plate.
Please order the hexagonal bolt for bracket mounting (type SKS 12 x 40 GF) separately.

Characteristic anchor load values for adapter plate KA-AW

Adapter plate, bracket load				Adapter plate, bracket load			
		Anchors	Max. total load F in kN			Anchors	Max. total load F in kN
		Appr.	KA-AW 30 with bracket:			Appr.	KA-AW 80 with bracket:
		F kN	AW 30/11 - AW 30/61 AW 55/21 - AW 55/41			F kN	AW 55/51 - AW 55/101 AW 80/21 - AW 80/81
		7.6	3.00 5.50			7.6	5.50 8.00

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. Observe the load capacity of the brackets (diagram) and the installation conditions of the DIBt approval (anchors).





Adapter plate				
Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
KA-E 45 FT	400	2	618.000	6346 75 8
ST Steel	FT Hot-dip galvanised			/pc.

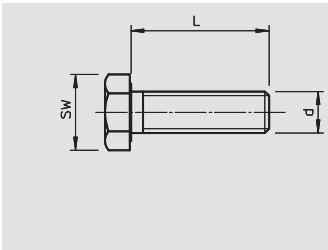
Adapter plate with slots for universal fastening to vertical steel girders and walls. Wall and support brackets are screwed to the adapter plate at a 45° angle.

To support cable support systems in building corners and jumps. The hexagonal bolts, type SKS 12 x 40 GF, are used to fasten the brackets to the adapter plate. Please order the appropriate quantity.

Characteristic anchor load values for adapter plate

Adapter plate, bracket load				
	Anchors	Max. total load F in kN		
	Appr.	KA-E 45 with bracket:		
	F kN	AW 30	AW 55	AW 80
		7.6	3.00	5.50 8.00

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. Observe the load capacity of the brackets (diagram) and the installation conditions of the DIBt approval (anchors). Mounting information: When using this component, please order a bracket which is 500 mm longer than the width of the tray/ladder.



Fastening bolt									
Type	Dimension	Dimension L	Dimension d	SW		Pack.	Weight	Item No.	
	mm	mm	mm	mm		pcs	kg/100 pcs.		
SKS 12X40 G F	M12 x 40	40	12	19		10	9.800	3164 02 0	
ST Steel	F	Hot-dip galvanised							/100 pc.

Hexagonal bolt with hexagonal nut, large washer and washer.

For fastening wall and support brackets on adapter plates.



Construction and profile rail systems

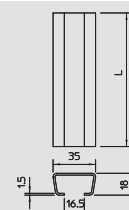


Profile rail

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item No.
2068 2M BK	Unperforated	35 x 18	1.5	2,000	20	90.000	1118 02 1
2068 2M FS	Unperforated	35 x 18	1.5	2,000	20	90.000	1118 22 6
2068 2M FT	Unperforated	35 x 18	1.5	2,000	20	89.400	1118 12 9

ST Steel **FS** Strip-galvanised **Bright** **FT** Hot-dip galvanised /100 m

Profile rail, unperforated, slot width 16.5 mm.



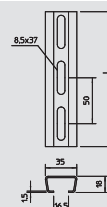
Profile rail

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2068 L 200 FT	Perforated	35 x 18	1.5	200	25	17.800	1119 69 6
2068 L 300 FT	Perforated	35 x 18	1.5	300	25	26.700	1119 69 3
2068 L 400 FT	Perforated	35 x 18	1.5	400	10	35.600	1119 69 0
2068 L 500 FT	Perforated	35 x 18	1.5	500	10	44.500	1119 68 7
2068 L 600 FT	Perforated	35 x 18	1.5	600	10	53.400	1119 68 4
2068 L 700 FT	Perforated	35 x 18	1.5	700	10	62.300	1119 68 1
2068 L 800 FT	Perforated	35 x 18	1.5	800	10	71.200	1119 67 8
2068 L 900 FT	Perforated	35 x 18	1.5	900	10	80.100	1119 67 5
2068 L 1M FT	Perforated	35 x 18	1.5	1,000	10	89.000	1119 67 2
2068 L 2M FT	Perforated	35 x 18	1.5	2,000	20	89.000	1119 65 6

ST Steel **FT** Hot-dip galvanised /100 m

/100 pc.

Profile rail, perforated, slot width 16.5 mm.

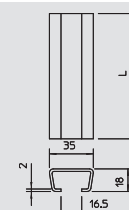


Profile rail

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item No.
2063 2M BK	Unperforated	35 x 18	2	2,000	20	116.000	1112 02 3
2063 2M FS	Unperforated	35 x 18	2	2,000	20	116.000	1112 12 0
2063 2M FT	Unperforated	35 x 18	2	2,000	20	121.350	1112 22 8

ST Steel **FS** Strip-galvanised **Bright** **FT** Hot-dip galvanised /100 m

Profile rail, unperforated, slot width 16.5 mm.

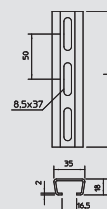


Profile rail

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item No.
2063 L 2M FS	Perforated	35 x 18	2	2,000	20	108.000	1112 70 8
2063 L 2M FT	Perforated	35 x 18	2	2,000	20	110.000	1112 75 9

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /100 m

Profile rail, perforated, slot width 16.5 mm.



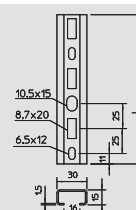
Profile rail

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
C30 L 2M FS	Perforated	30 x 15	1.5	2,000	20	70.200	1110 00 2
C30 L 200 FT	Perforated	30 x 15	1.5	200	25	14.040	1109 78 2
C30 L 300 FT	Perforated	30 x 15	1.5	300	25	21.060	1109 79 0
C30 L 400 FT	Perforated	30 x 15	1.5	400	10	28.080	1109 80 4
C30 L 500 FT	Perforated	30 x 15	1.5	500	10	35.100	1109 81 2
C30 L 600 FT	Perforated	30 x 15	1.5	600	10	42.120	1109 82 0
C30 L 700 FT	Perforated	30 x 15	1.5	700	10	49.140	1109 83 9
C30 L 800 FT	Perforated	30 x 15	1.5	800	10	56.160	1109 84 7
C30 L 900 FT	Perforated	30 x 15	1.5	900	10	63.180	1109 85 5

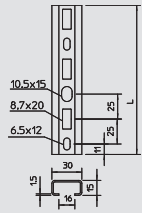
ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /100 m

/100 pc.

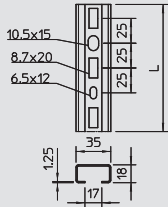
Profile rail, perforated, slot width 16 mm.



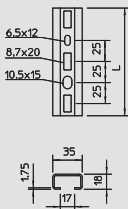
Construction and profile rail systems



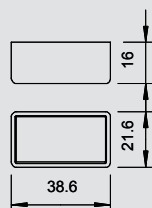
Profile rail							
Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
C30 L 1M FT	Perforated	30 x 15	1.5	1,000	10	70.200	1109 86 3
C30 L 2M FT	Perforated	30 x 15	1.5	2,000	20	70.200	1109 87 1
ST Steel FT Hot-dip galvanised							/100 m
Profile rail, perforated, slot width 16 mm.							



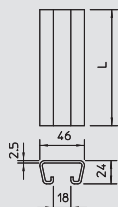
Profile rail							
Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
1268 L 200 FS	Perforated	35 x 18	1.25	200	25	14.300	1104 26 8
1268 L 300 FS	Perforated	35 x 18	1.25	300	25	21.450	1104 28 4
1268 L 400 FS	Perforated	35 x 18	1.25	400	10	28.550	1104 29 2
1268 L 500 FS	Perforated	35 x 18	1.25	500	10	35.750	1104 30 6
1268 L 600 FS	Perforated	35 x 18	1.25	600	10	42.900	1104 31 0
1268 L 700 FS	Perforated	35 x 18	1.25	700	10	50.050	1104 31 5
1268 L 800 FS	Perforated	35 x 18	1.25	800	10	57.200	1104 32 0
1268 L 900 FS	Perforated	35 x 18	1.25	900	10	64.350	1104 32 5
1268 L 1M FS	Perforated	35 x 18	1.25	1,000	10	71.500	1104 49 7
1268 L 2M FS	Perforated	35 x 18	1.25	2,000	20	71.500	1104 50 0
ST Steel FS Strip-galvanised							/100 m
							/100 pc.
Light-duty profile rail, perforated, slot width 17 mm.							



Profile rail							
Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
1268 SL 150 FS	Perforated	35 x 18	1.75	150	25	15.000	1104 34 9
1268 SL 200 FS	Perforated	35 x 18	1.75	200	25	20.000	1104 35 7
1268 SL 300 FS	Perforated	35 x 18	1.75	300	25	30.000	1104 37 3
1268 SL 400 FS	Perforated	35 x 18	1.75	400	10	40.000	1104 39 1
1268 SL 500 FS	Perforated	35 x 18	1.75	500	10	50.000	1104 40 3
1268 SL 600 FS	Perforated	35 x 18	1.75	600	10	60.000	1104 41 1
1268 SL 800 FS	Perforated	35 x 18	1.75	800	10	80.000	1104 42 7
1268 SL 900 FS	Perforated	35 x 18	1.75	900	10	90.000	1104 43 5
1268 SL 1M FS	Perforated	35 x 18	1.75	1,000	10	100.000	1104 44 5
1268 SL 2M FS	Perforated	35 x 18	1.75	2,000	20	100.000	1104 45 4
ST Steel FS Strip-galvanised							/100 m
							/100 pc.
Profile rail, perforated, slot width 17 mm.							



Protective cap				Pack.	Weight	Item No.
Type	Colour			pcs	kg/100 pcs.	
1268 SK OR	Pastel orange			50	0.420	1124 50 2
PE Polyethylene						/100 pc.
Protective cap for profile rail types 1268 and 1268 S.						



Profile rail, heavy-duty							
Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
2100 FT	Unperforated	46 x 24	2.5	2,000	10	220.000	1120 20 4
ST Steel FT Hot-dip galvanised							/100 m
Heavy-duty profile rail, unperforated, slot width 18 mm.							
Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item No.
2110 FT	Unperforated	56 x 30	3	2,000	10	300.000	1121 22 7
ST Steel FT Hot-dip galvanised							/100 m
Heavy-duty profile rail, unperforated, slot width 22 mm.							



Construction and profile rail systems

Profile rail, perforated

Type	Version	Interface	Dimension b x h mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
CPS 4L 2M FT	Perforated	FT	40 x 22,5	2	2,000	10	160.000	1121 97 9
CPS 4L 6M FT	Perforated	FT	40 x 22,5	2	6,000	1	160.000	1121 89 8

ST Steel **FT** Hot-dip galvanised

/100 m

Heavy-duty profile rail, perforated, slot width 18 mm.

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
CPS 5 G 220 FT	Perforated	50 x 30	3	220	1	69.000	6349 40 4
CPS 5 G 260 FT	Perforated	50 x 30	3	260	1	81.500	6349 41 2
CPS 5 G 300 FT	Perforated	50 x 30	3	300	1	94.000	6349 43 9
CPS 5 G 340 FT	Perforated	50 x 30	3	340	1	107.000	6349 44 7
CPS 5 G 380 FT	Perforated	50 x 30	3	380	1	119.000	6349 46 3

ST Steel **FT** Hot-dip galvanised

/pc.

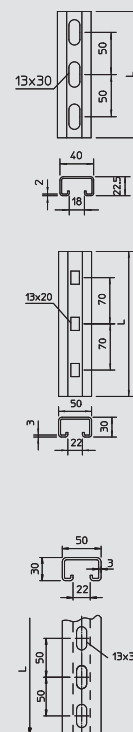
Heavy-duty profile rail. In fixed lengths, with rectangular perforation and a slot width of 22 mm.

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
CPS 5 L 2M FT	Perforated	50 x 30	3	2,000	2	282.500	1121 46 4
CPS 5 L 6M FT	Perforated	50 x 30	3	6,000	6	282.500	1121 47 2

ST Steel **FT** Hot-dip galvanised

/100 m

Heavy-duty profile rail with continuous perforation, slot width 22 mm.



Protective cap

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
CPS 4 SK OR	Pastel orange	25	0.932	1124 55 3

PE Polyethylene

/100 pc.

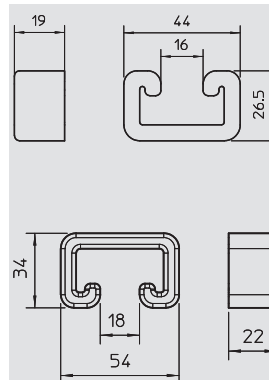
Protective cap for profile rail, types CPS 4 and MS 22.

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
CPS 5 SK OR	Pastel orange	20	1.420	1124 56 1

PE Polyethylene

/100 pc.

Protective caps for profile rail, types CPS 5 and CPS 5G.



Profile rail, perforated

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
MS 22 L 3M FT	Perforated	40x22,5	2	3,000	3	160.000	1122 74 2
MS 22 L 6M FT	Perforated	40x22,5	2	6,000	6	160.000	1122 74 6

ST Steel **FT** Hot-dip galvanised

/100 m

Heavy-duty profile rail with continuous perforation, slot width 18 mm.

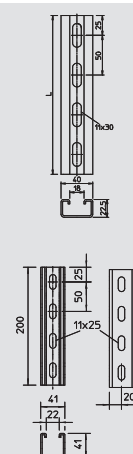
Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
MS 41 LS 3M FT	Perforated	41x41	2.5	3,000	3	235.000	1122 48 3
MS 41 LS 6M FT	Perforated	41x41	2.5	6,000	6	235.000	1122 48 7

ST Steel **FT** Hot-dip galvanised

/100 m

Heavy-duty profile/mounting rail with continuous, three-sided perforation, slot width 22 mm.

Additional versions and appropriate accessories for the MS 41 system are listed in the new VBS catalogue.



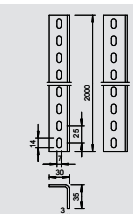
Angle profile

Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WP 30 35 FT	2,000	10	257.000	6373 10 0
WP 30 35 5000 FT	5,000	1	643.000	6373 10 3

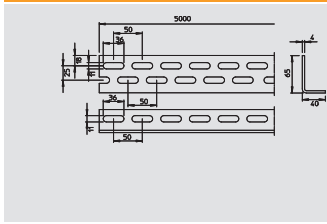
ST Steel **FT** Hot-dip galvanised

/pc.

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

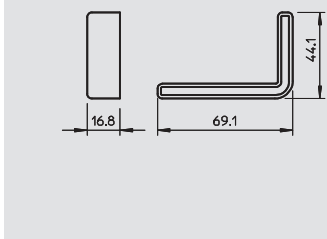
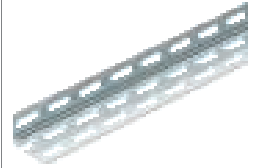


Construction and profile rail systems



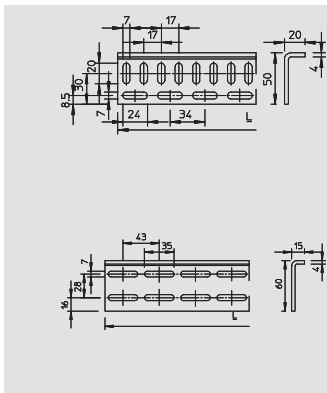
Angle profile				
Type	Length	Pack.	Weight	Item No.
	mm	m	kg/100 m	
WP 40 65 FT	5,000	1	240.000	6373 07 0
ST Steel	FT Hot-dip galvanised		/m	

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



Protective cap				
Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
WPK SR OR	Pastel orange	20	0.600	6372 88 1
WPK SL OR	Pastel orange	20	0.600	6372 89 8
PE Polyethylene			/pc.	

Protective cap to cover the ends of angle profile, type WE 40/65.



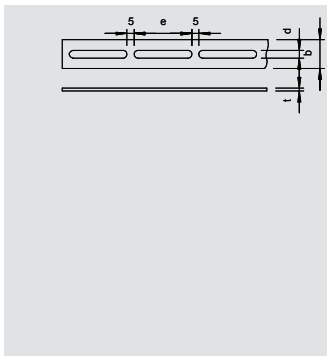
Angle profile

Type	Length	Plate thickness	Pack.	Weight	Item No.
	mm	mm	m	kg/100 m	
WESP 50 20 BK	3,000	4	1	159.000	7105 66 5
ST Steel	Bright				/m

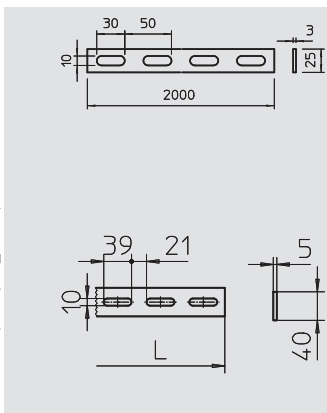
Angle profile with double row of holes for creation of suspended and support structures.

Type	Length	Plate thickness	Pack.	Weight	Item No.
	mm	mm	m	kg/100 m	
WESP 60 15 BK	3,000	4	1	179.000	7105 96 7
ST Steel	Bright				/m

Angle profile with double straight perforation to create suspension and support constructions.



Slotted steel strap							
Type	Length	Dimension b	Dimension t	Dimension e	Dimension d	Weight	Item No.
	mm	mm	mm	mm	mm	kg/100 m	
5050 20X3 3M FT	3,000	20	3	40	6.5	36.800	1465 76 7
5050 25X3 3M FT	3,000	25	3	40	6.5	48.900	1465 77 5
5050 30X3 3M FT	3,000	30	3	40	6.5	64.000	1465 79 1
5050 SB30x3 FT	3,000	30	3	40	8.5	54.000	1466 26 7
5050 30X4 3M FT	3,000	30	4	60	8.5	71.600	1465 80 5
5050 40X4 3M FT	3,000	40	4	70	8.5	103.800	1465 82 1
ST Steel	FT Hot-dip galvanised					/100 m	
Perforated slotted steel strap in strips.							
Length: 3,000 mm.							



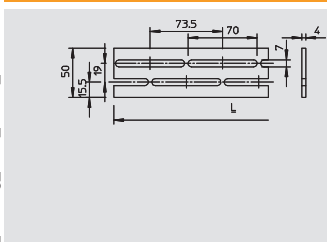
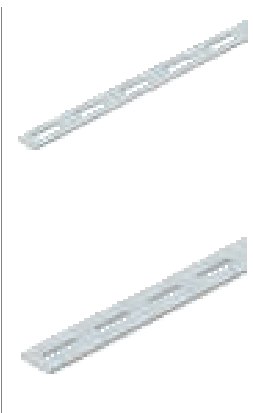
Construction and suspension profile

Type	Length	Version	Pack.	Weight	Item No.
	mm		m	kg/100 m	
SLH 42 FT	2,000	Perforated	1	51.500	7103 61 1
ST Steel		FT Hot-dip galvanised			/m

Perforated rail profile of ship ladder, SL 42, for creation of suspension and support structures.

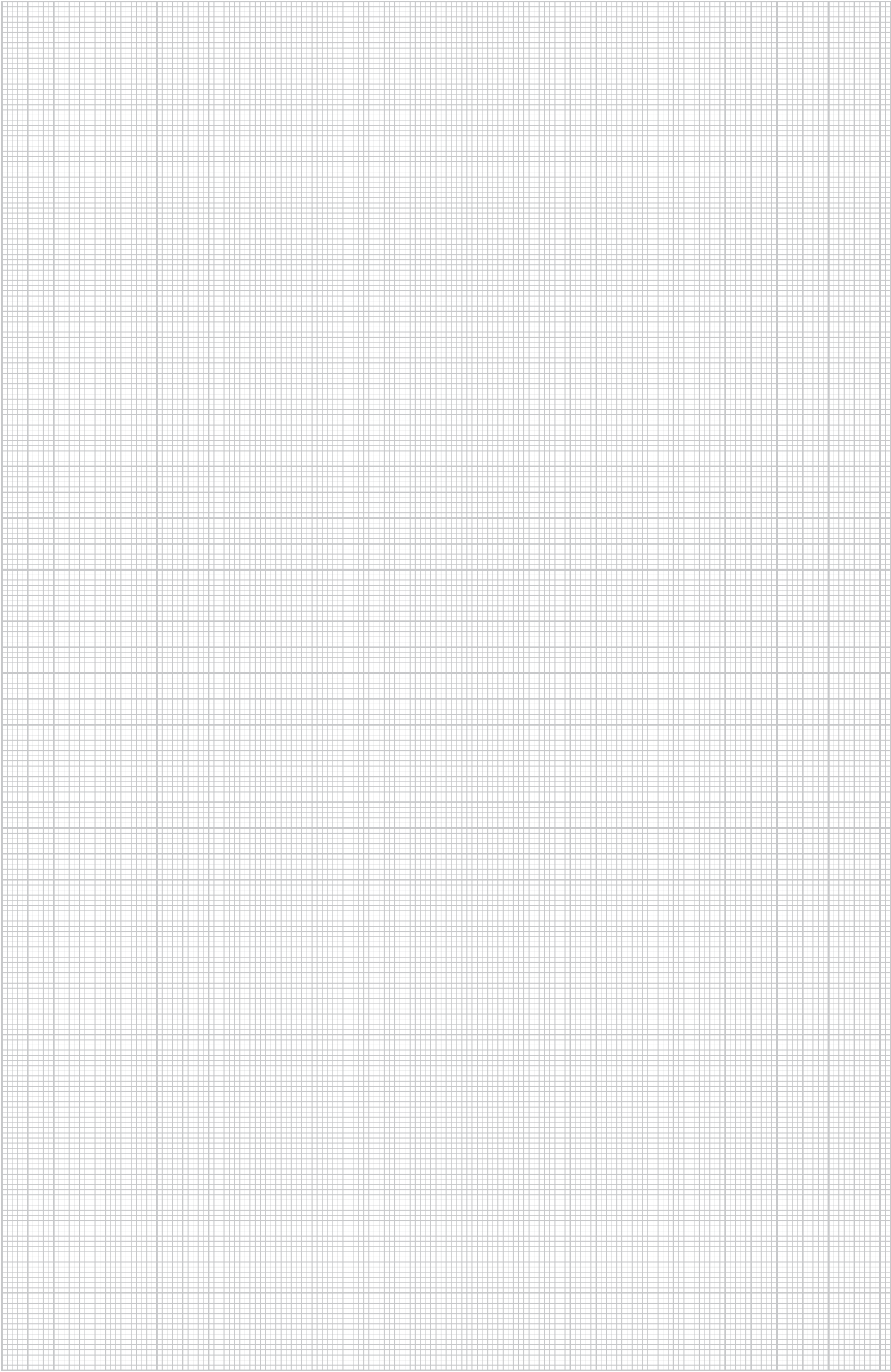
Type	Length	Version	Pack.	Weight	Item No.
	mm		m	kg/100 m	
SLH 62 FT	3,000	Perforated	1	136.000	7103 64 3
ST Steel		FT Hot-dip galvanised			/m

Perforated side rail of ship cable ladder, SL 62, for creation of suspension and support structures.



Construction and suspension profile					
Type	Length	Plate thickness	Pack.	Weight	Item No.
	mm	mm	m	kg/100 m	
FESP L 50 4 BK	3,000	4	15	117.000	7104 96 0
ST Steel	Bright			/m	
Flat iron frame with double, offset longitudinal hole row for creation of suspended and support structures.					







Fastening systems

	Screw and fastening systems	Quick fastening RKSM Truss-head bolt Hexagonal bolts Washers Hexagonal nuts	186
		Slide nuts Hammer head bolts	189
	Anchor systems	Nail tie Bolt tie Heavy-duty anchor Impact tie Cavity ceiling tie Fire protection screw tie Injection tie	191
	Surface refinement and edge protection	Zinc spray Edge protection strip	194
	Earthing systems	Earthing screw	195



Bolt and fastening systems



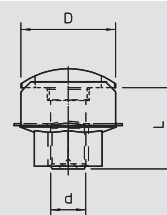
Quick fastening

Type	Grade	Dimension mm	Dimension L mm	Dimension d mm	Dimension D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FCM F	5.6	M6 x 12	12	6	13.5	50	0.720	6424 54 8

ST Steel **F** Hot-dip galvanised /100 pc.

Quick connector for efficient fastening of cable tray on brackets.

The quick fastening can then be mounted in all brackets with 7 x ... perforation at a later date.

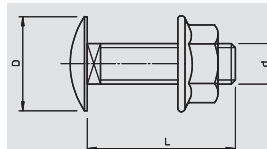


Truss-head bolt with combination nut

Type	Grade	Dimension mm	Dimension L mm	Dimension d mm	Dimension D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRSB 6X12 VZ G	5.6	M6 x 12	12	6	13.5	10	0.840	6406 13 3
FRSB 6X12 VZ G	5.6	M6 x 12	12	6	13.5	100	0.796	6406 13 0
FRSB 6X20 G	5.6	M6 x 20	20	6	13.5	100	0.903	6406 18 1
FRSB 6X12 VZ F	5.6	M6 x 12	12	6	13.5	10	0.840	6406 12 5
FRSB 6X12 F	5.6	M6 x 12	12	6	13.5	100	0.990	6406 12 2
FRSB 6X15 F	5.6	M6 x 15	15	6	13.5	100	0.800	6406 15 7
FRSB 6X20 F	5.6	M6 x 20	20	6	13.5	100	1.000	6406 20 3
FRSB 6X30 F	5.6	M6 x 30	30	6	13.5	100	1.200	6406 90 7

ST Steel **F** Hot-dip galvanised **G** Electrogalvanised /100 pc.

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



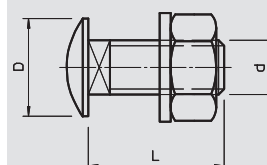
Truss-head bolt with nut and washer

Type	Grade	Dimension mm	Dimension L mm	Dimension d mm	Dimension D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRS 8X16 F 8.8	8.8	M8 x 16	16	8	20	50	2.200	6406 96 3
FRS 8X16 F 5.6	5.6	M8 x 16	16	8	20	50	2.000	6406 93 9
FRS 8X20 F	5.6	M8 x 20	20	8	20	50	2.100	6406 97 1
FRS 8X25 F	8.8	M8 x 25	25	8	20	50	2.300	6406 99 8
FRS 8X35 F	5.6	M8 x 35	35	8	20	50	2.700	6407 04 8
FRS 10X20 F	5.6	M10 x 20	20	10	24	50	4.100	6407 47 1
FRS 10X25 F	5.6	M10 x 25	25	10	24	50	4.500	6407 52 8
FRS 10X25 F 8.8	8.8	M10 x 25	25	10	24	50	4.500	6407 56 0
FRS 10X25 F TPS	5.6	M10 x 25	25	10	18	50	4.300	6407 53 6
FRS 10X30 F	8.8	M10 x 30	30	10	24	50	4.400	6407 57 9
FRS 12X25 F	5.6	M12 x 25	25	12	30	10	6.400	6406 25 4
FRS 12X30 F	5.6	M12 x 30	30	12	30	20	6.800	6406 27 0

ST Steel **F** Hot-dip galvanised /100 pc.

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

The truss-head bolt can be used in combination with hot-dip and double-dip galvanised articles.

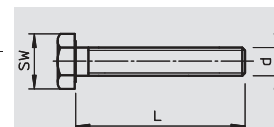


Hexagonal bolt

Type	Dimension mm	Dimension L mm	Dimension d mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
342 M8X20 G	M8 x 20	20	8	13	100	1.230	3158 20 9
342 M8X25 G	M8 x 25	25	8	13	100	1.390	3158 24 1
342 M8X30 G	M8 x 30	30	8	13	100	1.550	3158 30 6
342 M10X20 G	M10 x 20	20	10	17	100	2.320	3160 20 3
342 M10X30 G	M10 x 30	30	10	17	100	2.820	3160 30 0
342 M10X40 G	M10 x 40	40	10	17	50	3.240	3160 40 8
342 M10X50 G	M10 x 50	50	10	17	50	3.820	3160 50 5
342 M10X60 G	M10 x 60	60	10	17	50	4.330	3160 60 2
342 M12X30 G	M12 x 30	30	12	19	50	4.020	3162 30 3
342 M12X40 G	M12 x 40	40	12	19	50	4.740	3162 40 0
342 M12X50 G	M12 x 50	50	12	19	50	5.450	3162 50 8

ST Steel **G** Electrogalvanised /100 pc.

Hexagonal bolt to ISO 4017 with metric thread.

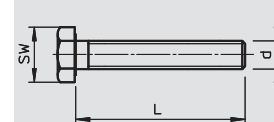


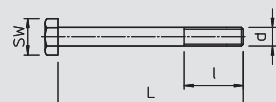
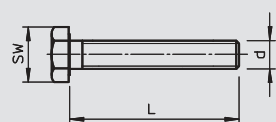
Hexagonal bolt with nut and washer

Type	Dimension mm	Dimension L mm	Dimension d mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 6X12 F	M6 x 10	12	6	10	100	0.810	3156 49 4
SKS 6X20 F	M6 x 20	20	6	10	100	0.900	3156 51 6
SKS 6X30 F	M6 x 30	30	6	10	100	1.100	3156 52 4

ST Steel **F** Hot-dip galvanised /100 pc.

Hexagonal bolt for universal fixing of structure components.





Hexagonal bolt with nut and washer

Type	Dimension mm	Dimension L mm	Dimension d mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 8X16 F	M8 x 16	16	8	13	50	1.190	3158 62 4
SKS 8X20 F	M8 x 20	20	8	13	50	1.270	3158 63 2
SKS 8X30 F	M8 x 30	30	8	13	50	2.300	3158 64 0

ST Steel **F** Hot-dip galvanised /100 pc.

Hexagonal bolt for universal fixing of structure components.

Type	Dimension mm	Dimension L mm	Dimension d mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 10X25 F	M10 x 25	25	10	17	50	4.200	3160 73 4
SKS 10X30 F	M10 x 30	30	10	17	50	4.400	3160 74 2
SKS 10X40 F	M10 x 40	40	10	17	50	4.700	3160 75 0
SKS 10X60 F	M10 x 60	60	10	17	20	6.000	6408 51 6
SKS 10X80 F	M10 x 80	80	10	17	20	7.700	6418 25 0
SKS 10X90 F	M10 x 90	90	10	17	20	8.000	6418 25 2
SKS 10X120 F	M10 x 120	120	10	17	20	13.500	3160 79 3

ST Steel **F** Hot-dip galvanised /100 pc.

Hexagonal bolt for universal fixing of structure components.

Type	Dimension mm	Dimension L mm	Dimension d mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 12X30 F	M12 x 30	30	12	19	20	7.200	3163 09 1
SKS 12X40 F	M12 x 40	40	12	19	25	7.800	3163 11 3
SKS 12X60 F	M12 x 60	60	12	19	25	9.000	3163 15 6

ST Steel **F** Hot-dip galvanised /100 pc.

Hexagonal bolt for universal fastening of construction components.

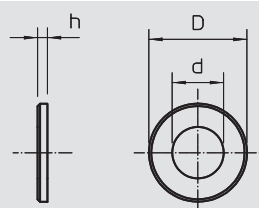
Type	Dimension mm	Dimension L mm	Dimension d mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 12X80 F	M12 x 80	80	12	19	20	11.800	6418 28 7
SKS 12X100 F	M12 x 100	100	12	19	20	12.600	6418 29 5
SKS 12X110 F	M12 x 110	110	12	19	20	14.300	6418 31 7
SKS 12X130 F	M12 x 130	130	12	19	20	15.500	6408 47 8

ST Steel **F** Hot-dip galvanised /100 pc.

Hexagonal bolt with hexagonal nut, washer and toothed disc.



Washer



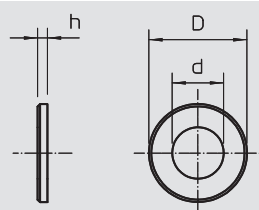
Type	Dimension d mm	Dimension D mm	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
966 M6 F	6.6	12	1.6	100	0.114	3402 44 4
966 M8 F	9	16	1.6	100	0.214	3402 45 2
966 M10 F	11	20	2	100	0.408	3402 46 0
966 M12 F	13.5	24	2.5	100	0.627	3402 47 9

ST Steel **F** Hot-dip galvanised /100 pc.

Washer for universal use.



Large washer



Type	Dimension d mm	Dimension D mm	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN440 7 F	6.6	22	2	100	0.550	6408 70 2
DIN440 9 F	9	28	3	100	1.344	6408 71 0
DIN440 11 F	11	34	3	100	1.985	6408 72 9
DIN440 14 F	13.5	44	4	100	4.736	6408 73 7

ST Steel **F** Hot-dip galvanised /100 pc.

Washer of particularly large outer diameter.



Bolt and fastening systems



Large washer

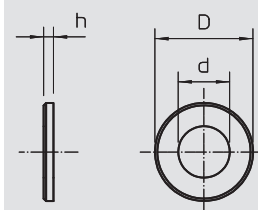
Type	Dimension d mm	Dimension D mm	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
964 M4 G	4.3	15	1.2	100	0.156	3403 02 5
964 M5 G	5.3	20	1.2	100	0.274	3403 04 1
964 M6 G	6.4	25	1.2	100	0.415	3403 08 4
964 M6 G	6.4	30	1.3	100	0.675	3403 09 2
964 M6 G	6.4	20	1.5	100	0.262	3403 07 6
964 M8 G	8.4	25	1.2	100	0.370	3403 13 0
964 M8 G	8.4	20	1.5	100	0.240	3403 12 2
964 M10 G	10.5	30	1.5	100	0.592	3403 16 5

ST Steel

G Electrogalvanised

/100 pc.

Washer of particularly large outer diameter.



Lock plate

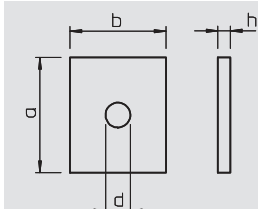
Type	Dimension a mm	Dimension b mm	Dimension d mm	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
K 60 FT	60	50	13	6.5	10	15.700	6348 40 8
K 70 FT	70	70	17	6.5	10	24.000	6348 44 0

ST Steel

FT Hot-dip galvanised

/pc.

Lock plate to increase the contact surface for pass-through installation of brackets and supports.



Serrated washer

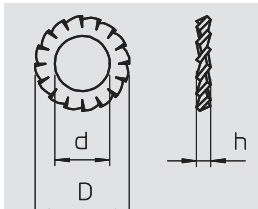
Type	Dimension d mm	Dimension D mm	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 6798 A M6 G	6.4	11	2.1	100	0.036	3404 06 4
DIN 6798 A M8 G	8.4	15	2.4	100	0.080	3404 08 0
DIN 6798 A M10 G	10.5	18	2.7	100	0.125	3404 10 2
DIN 6798 A M12 G	13	20.5	3	100	0.170	3404 12 9

ST Steel

G Electrogalvanised

/100 pc.

Serrated washer to DIN 6798, shape A.



Lock washer

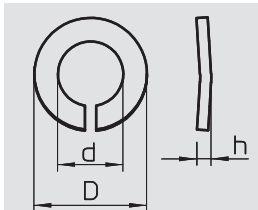
Type	Dimension d mm	Dimension D mm	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 128 A M6 G	6.3	11.8	2.1	100	0.083	3405 06 0
DIN 128 A M8 G	8.3	14.8	2.6	100	0.160	3405 08 7
DIN 128 A M10 G	10.5	18.1	3	100	0.253	3405 10 9
DIN 128 A M12 G	12.5	21.1	3.5	100	0.382	3405 12 5

ST Steel

G Electrogalvanised

/100 pc.

Lock washer according to DIN 128, shape A.



Combination nut

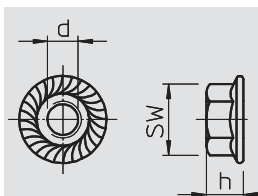
Type	Dimension d mm	Dimension h mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KM M6 G	6	6	10	100	0.315	6408 95 8
KM M6 F	6	6	10	100	0.315	6408 96 2

ST Steel

F Hot-dip galvanised G Electrogalvanised

/100 pc.

Nut with pressed washer.



Hexagonal nut

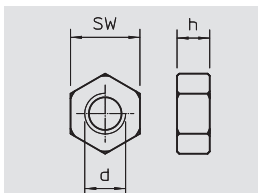
Type	Dimension d mm	Dimension h mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 934 M4 G	4	3.2	7	100	0.081	3400 04 2
DIN 934 M5 G	5	4.7	8	100	0.123	3400 05 0
DIN 934 M6 G	6	5.2	10	100	0.225	3400 06 9
DIN 934 M8 G	8	6.8	13	100	0.474	3400 08 5
DIN 934 M10 G	10	8.4	17	100	1.084	3400 10 7
DIN 934 M12 G	12	10.8	19	100	1.730	3400 12 3

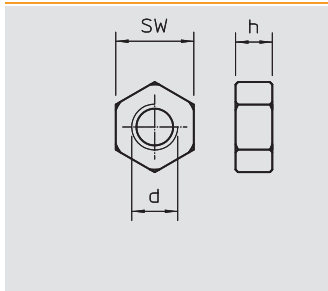
ST Steel

G Electrogalvanised

/100 pc.

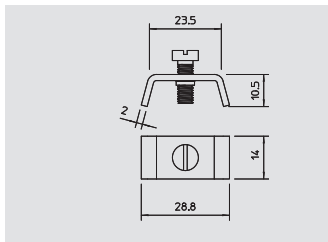
Hexagonal nut to DIN 934 with metric thread.





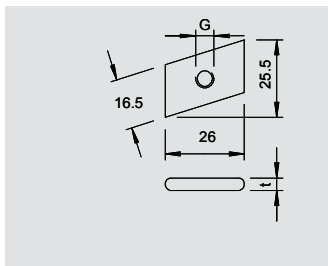
Hexagonal nut						
Type	Dimension d mm	Dimension h mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN934 M6 F	6	5.2	10	100	0.250	3400 34 4
DIN934 M8 F	8	6.8	13	100	0.520	3400 35 2
DIN934 M10 F	10	8.4	17	100	1.160	3400 36 0
DIN934 M12 F	12	10.8	19	100	1.730	3400 37 9
ST Steel			F Hot-dip galvanised			/100 pc.

Hexagonal nut to DIN 934 with metric thread.



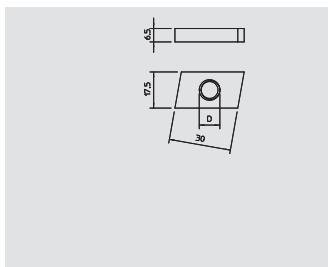
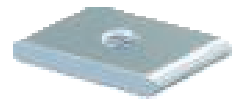
Slide nut						
Type	Thread	Version	Pack. pcs	Weight kg/100 pcs.	Item No.	
T5012 M5x13 G	M5	With bolt M5 x 13	100	1.151	1140 01 9	
T5012 O.S. M5 G	M5	No bolt	100	0.903	1140 21 3	
ST Steel		G Electrogalvanised			/100 pc.	

Slide nut for profile rails with a slot width of 16–17 mm.



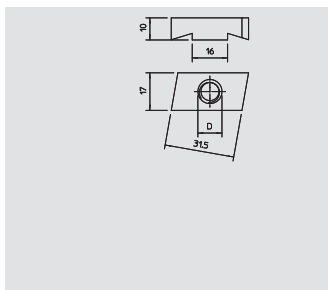
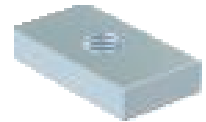
Slide nut						
Type	Dimension G mm	Dimension t mm	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
5019 M6 OS G	6	4	No screw	100	1.150	1144 10 3
5019 M8 OS G	8	5	No screw	100	1.450	1144 11 1
5019 M10 OS G	10	6	No screw	100	1.650	1144 13 8
ST Steel			G Electrogalvanised			/100 pc.

Slide nut for profile rails with a slot width of 16–17 mm.



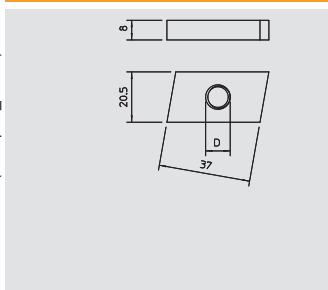
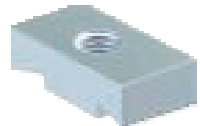
Slide nut						
Type	Dimension D mm	Recommended load capacity kN	Pack. pcs	Weight kg/100 pcs.	Item No.	
GMH18 M6 G	6	1.94	50	2.400	1146 50 5	
GMH18 M8 G	8	3.57	50	2.300	1146 51 3	
GMH18 M10 G	10	5.7	50	2.300	1146 52 1	
ST Steel			G Electrogalvanised		/100 pc.	

Slide nut for profile rails with a slot width of 18 mm.



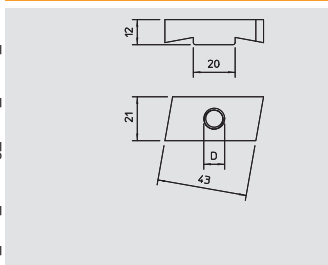
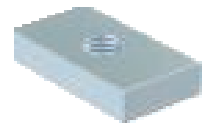
Slide nut						
Type	Dimension D mm	Recommended load capacity kN	Pack. pcs	Weight kg/100 pcs.	Item No.	
HGMH18 M6 G	6	1.94	50	3.600	1146 71 8	
HGMH18 M8 G	8	3.57	50	2.300	1146 72 6	
HGMH18 M10 G	10	5.7	50	2.300	1146 73 4	
HGMH18 M12 G	12	8.32	50	2.000	1146 74 2	
ST Steel			G Electrogalvanised		/100 pc.	

Slide nut for profile rails with a slot width of 18 mm.



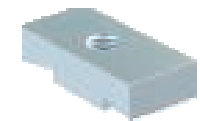
Slide nut						
Type	Dimension D mm	Recommended load capacity kN	Pack. pcs	Weight kg/100 pcs.	Item No.	
GMH22 M6 G	6	1.94	50	4.500	1146 60 2	
GMH22 M8 G	8	3.57	50	4.300	1146 61 0	
GMH22 M10 G	10	5.7	50	4.300	1146 62 9	
GMH22 M12 G	12	8.32	50	4.200	1146 63 7	
ST Steel			G Electrogalvanised		/100 pc.	

Slide nut for profile rails with a slot width of 22 mm.



Slide nut						
Type	Dimension D mm	Recommended load capacity kN	Pack. pcs	Weight kg/100 pcs.	Item No.	
HGMH22 M8 G	8	3.57	50	4.300	1146 80 7	
HGMH22 M10 G	10	5.7	50	4.200	1146 81 5	
HGMH22 M12 G	12	8.32	50	4.100	1146 82 3	
ST Steel			G Electrogalvanised		/100 pc.	

Slide nut for profile rails with a slot width of 22 mm.



Bolt and fastening systems



Hammer-head bolt

Type	Thread	Dimension L mm	Dimension D mm	Dimension t mm	Washer Ø mm	Grade	Box quantity pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
5022 M6X25 F	M6	25	6	5	12	4.6	500	50	1.960	1151 01 0
5022 M6X30 F	M6	30	6	5	12	4.6	500	50	1.992	1151 02 9
5022 M8X25 F	M8	25	8	5	16	4.6	300	50	2.120	1151 21 5
5022 M8X30 F	M8	30	8	5	16	4.6	300	50	2.990	1151 22 3
5022 M8X40 F	M8	40	8	5	16	4.6	200	50	3.600	1151 25 8
5022 M10x25 F	M10	25	10	6	20	4.6	300	50	4.360	1151 40 1
5022 M10x30 F	M10	30	10	6	20	4.6	200	50	4.580	1151 42 8
5022 M10x40 F	M10	40	10	6	20	4.6	200	50	5.070	1151 44 4
5022 M12x30 G	M12	30	12	6	24	4.6	250	25	6.130	1151 62 2
5022 M12x40 G	M12	40	12	6	24	4.6	150	25	6.900	1151 64 9

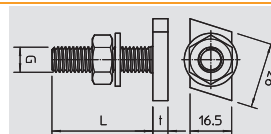
ST Steel

F Hot-dip galvanised

G Electrogalvanised

/100 pc.

Hammer-head bolt with washer and nut for profile rails with slot width 16–17 mm.



Hammer-head bolt

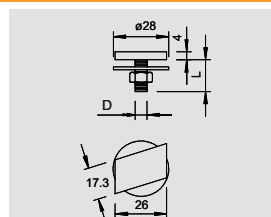
Type	Thread	Dimension L mm	Dimension D mm	Washer Ø mm	Grade	Box quantity pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
5026 M6X20 G	M6	20	6	28	4.6	300	50	2.870	1151 70 3
5026 M8X25 G	M8	25	8	28	4.6	300	50	3.320	1151 71 1

ST Steel

G Electrogalvanised

/100 pc.

Hammer-head bolt with washer and nut for profile rails with slot width 16–17 mm.



Hook-head bolt

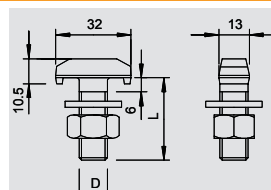
Type	Thread	Dimension L mm	Dimension D mm	Washer Ø mm	Grade	Box quantity pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
5023 M10x30 G	M10	30	10	20	5.6	300	50	4.130	1153 41 2
5023 M10x35 G	M10	35	10	20	5.6	200	50	4.690	1153 42 0
5023 M10x40 G	M10	40	10	20	5.6	250	25	4.970	1153 43 9
5023 M12x30 G	M12	30	12	24	5.6	150	25	6.450	1153 61 7
5023 M12x35 G	M12	35	12	24	5.6	150	25	6.800	1153 62 5
5023 M12x40 G	M12	40	12	24	5.6	150	25	7.200	1153 63 3
5023 M12x50 G	M12	50	12	24	5.6	150	25	7.840	1153 64 1

ST Steel

G Electrogalvanised

/100 pc.

Hook-head bolt with washer and nut for profile rails with slot width 18 mm.



Hook-head bolt

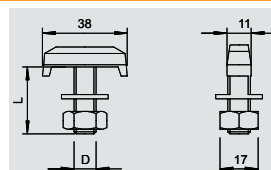
Type	Thread	Dimension L mm	Dimension D mm	Washer Ø mm	Grade	Box quantity pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
5024 M10x30 G	M10	30	10	20	5.6	200	50	5.540	1154 41 9
5024 M10x35 G	M10	35	10	20	5.6	200	50	5.710	1154 42 7
5024 M10x40 G	M10	40	10	20	5.6	250	25	5.980	1154 43 5
5024 M12x30 G	M12	30	12	24	5.6	150	25	7.610	1154 60 5
5024 M12x35 G	M12	35	12	24	5.6	150	25	7.944	1154 61 3
5024 M12x40 G	M12	40	12	24	5.6	150	25	8.160	1154 62 1
5024 M12x50 G	M12	50	12	24	5.6	150	25	8.836	1154 64 8

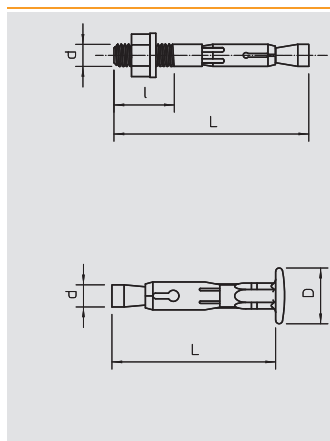
ST Steel

G Electrogalvanised

/100 pc.

Hook-head bolt with washer and nut for profile rails with slot width 22 mm.





Nail tie

Type	Thread	Dimension d mm	Dimension L mm	Bore hole depth mm	Dimension L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FNA II 6X30 M6/5	M6	6	13	40	53	100	1.400	3498 42 5

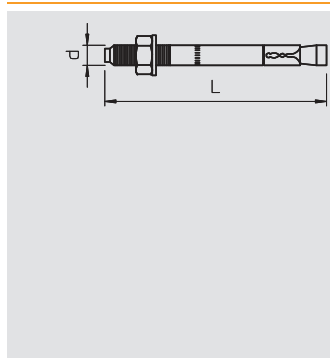
ST Steel **G** Electrogalvanised /100 pc.

Nail tie with M6 thread. European technical approval for concrete. Fire resistance class to F120 according to fire protection testing report.

Type	Dimension D mm	Dimension d mm	Dimension L mm	Bore hole depth mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FNA II 6X30/5	15	6	40	40	100	1.120	3498 46 8

ST Steel **G** Electrogalvanised /100 pc.

Nail tie with drive-in head. European technical approval for concrete. Fire resistance class to F120 according to fire protection testing report.

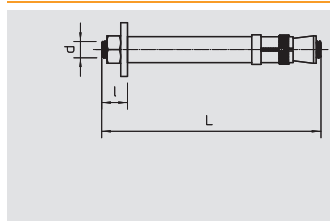


Bolt tie

Type	Thread	Dimension L mm	Dimension d mm	Clamping range mm	Perm. load range, tension zone kN	Pack. pcs	Weight kg/100 pcs.	Item No.
FAZ II 8 10 GS	M8	77	8	10	2.4	50	3.720	3498 50 6
FAZ II 8 30 GS	M8	97	8	30	2.4	50	3.800	3498 48 4
FAZ II 10 10 GS	M10	95	10	10	4.3	50	7.680	3498 54 9
FAZ II 10 30	M10	115	10	30	4.3	25	7.520	3498 58 1
FAZ II 10 100	M10	185	10	100	4.3	20	11.500	3498 59 7
FAZ II 12 10	M12	110	12	10	7.6	20	10.400	3498 65 4

ST Steel **G** Electrogalvanised /100 pc.

Bolt tie for fastening high loads. Matches OBO mounting systems and wall support brackets and supports.

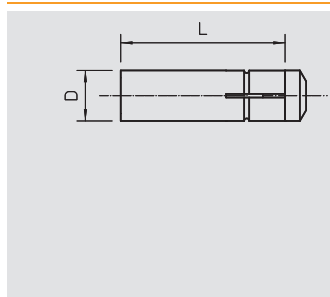


Heavy-duty anchor

Type	Thread	Dimension L mm	Dimension d mm	Clamping range mm	Perm. load range, tension zone kN	Pack. pcs	Weight kg/100 pcs.	Item No.
FH II 18X80	M12	120	18	10	9.91	10	20.000	3498 74 3

ST Steel **G** Electrogalvanised /100 pc.

Heavy-duty anchor for fastening components with large loads.



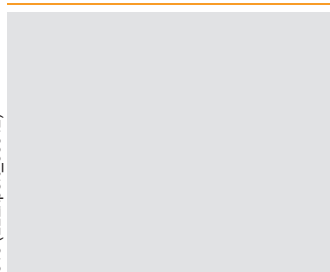
Impact tie

Type	Thread	Dimension D mm	Dimension L mm	Screw-in depth min.-max. mm	Perm. load range, tension zone kN	Pack. pcs	Weight kg/100 pcs.	Item No.
FZEA II 10X40 G	M8	10	40	11-17	1.5	100	1.550	3492 03 6
FZEA II 12X40 G	M10	12	40	13-19	1.5	100	2.075	3492 06 0
FZEA II 14X40 G	M12	14	40	15-21	1.5	50	2.750	3492 09 5

ST Steel **G** Electrogalvanised /100 pc.

Undercut steel anchor with internal thread.

Approval no.: Z-21.1-958

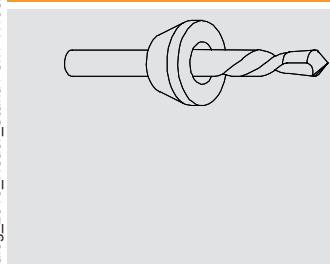


Impact mandrel

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
FZED 10X40 G	5	10.500	3492 62 1
FZED 12X40 G	5	17.800	3492 66 4
FZED 14X40 G	5	25.000	3492 69 9

ST Steel **G** Electrogalvanised /pc.

The impact mandrel guarantees correct, approved mounting of the FZEA tie.



Universal drill

Type	Bore hole Ø mm	Box quantity pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
FZUB 10X40	10	10	1	11.800	3492 33 8
FZUB 12X40	12	10	1	12.200	3492 36 2
FZUB 14X40	14	10	1	12.500	3492 39 7

ST Steel Bright /pc.

The universal drill for SDS seats guarantees correct, approved mounting of the FZEA tie.



Anchor systems



Cavity ceiling tie

Type	Thread	Dimension d mm	Dimension D mm	Dimension L mm	Screw-in depth min-max mm	Bore hole depth mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FH M8	M8	8	12	43	43-55	50	25	1.300	3498 76 0
FH M10	M10	10	16	52	52-60	60	20	3.200	3498 76 4

ST Steel

G

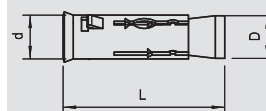
Electrogalvanised

/100 pc.

Cavity ceiling tie with internal thread for use in stressed concrete core slab ceilings.

Construction approval no.: Z-21.1-1711

The approved loads apply to the appropriate ceiling thickness.



Fire protection bolt tie

Type	Dimension mm	Anchor length mm	Bore hole Ø mm	Pack. pcs	Weight kg/100 pcs.	Item No.
HMS-KS5X50	5 x 50	50	4	200	0.460	3498 20 4

ST Steel

G

Electrogalvanised

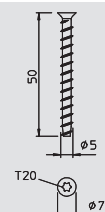
/100 pc.

Fire protection bolt tie with conical countersunk head, drive T20, drill hole 4 mm. Fire protection tested according to DIN 4102. Fire resistance class to F90.

Substrate

The bolt ties are suitable for screwing into the following types of masonry:

- Calcareous sandstone – full brick (KSV)
- Calcareous sandstone – hollow brick (KSL)
- Whole brick (Vz)



Fire protection bolt tie

Type	Dimension mm	Anchor length mm	Bore hole Ø mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MMS6X50	6 x 50	50	5	100	0.960	3498 10 7

ST Steel

GC

Electrogalvanised, yellow-chromated

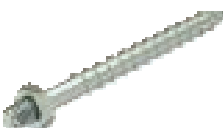
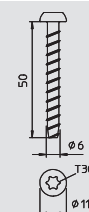
/100 pc.

Fire protection bolt tie with pan head, drive T30, drill hole 5 mm. Fire protection tested according to DIN 4102. Fire resistance class to F90.

Substrate

The bolt ties are suitable for screwing into the following types of masonry:

- Calcareous sandstone – full brick (KSV)
- Calcareous sandstone – hollow brick (KSL)
- Whole brick (Vz)



Fire protection bolt tie

Type	Thread	Dimension mm	Anchor length mm	Bore hole Ø mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MMS-ST6X60	M6	6 x 60	60	5	100	1.400	3498 26 3

ST Steel

G

Electrogalvanised

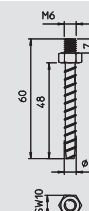
/100 pc.

Fire protection bolt tie with M6 thread and hexagonal head, WAF 10, drill hole 5 mm. Fire protection tested according to DIN 4102. Fire resistance class to F90.

Substrate

The bolt ties are suitable for screwing into the following types of masonry:

- Calcareous sandstone – full brick (KSV)
- Calcareous sandstone – hollow brick (KSL)
- Whole brick (Vz)



Fire protection bolt tie

Type	Dimension mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MMS10X80	10 x 80	50	3.800	3498 12 3
MMS10X100	10 x 100	50	4.600	3498 15 8

ST Steel

G

Electrogalvanised

/100 pc.

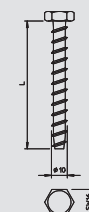
Fire protection bolt tie with hexagonal head for direct installation without additional anchors.

Substrate: concrete or masonry. WAF 16. Drill hole 8 mm. Fire protection tested according to DIN 4102. Fire resistance class to F90.

Substrate

The bolt ties are suitable for screwing into the following types of masonry:

- Calcareous sandstone – full brick (KSV)
- Calcareous sandstone – hollow brick (KSL)
- Whole brick (Vz)



Two-component injection mortar

Type	Unit TE	Contents	Pack.	Weight	Item No.
		I	pcs	kg/100 pcs.	
FIS V 360 S	180	0.36	6	133.333	3488 40 3

/pc.

Two-component injection mortar for universal, spread-free anchoring in concrete and stone substrates.

Scope of delivery includes two static mixers.



Anchor rod

Type	Dimension L mm	Dimension d mm	SW mm	Pack.	Weight	Item No.
				pcs	kg/100 pcs.	
FIS A M6X70	70	6	10	10	1.800	3488 29 2
FIS A M8X90	90	8	13	10	3.800	3488 29 8
FIS A M10X110	110	10	17	10	6.600	3488 30 6
FIS A M10X130	130	10	17	10	7.940	3488 30 8
FIS A M12X120	120	12	19	10	10.800	3488 31 2

ST Steel

G Electrogalvanised

/100 pc.

Injection threaded rod for use in injection mortar.

For use in conjunction with injection tie sleeves and injection mortar.

Approval for masonry: Z-21.3-1824



Injection tie sleeve

Type	Dimension d mm	Dimension L mm	Consumption TE	Pack.	Weight	Item No.
				pcs	kg/100 pcs.	
FIS H 12X50 K	12	50	5	50	0.225	3488 45 2
FIS H 12X85 K	12	85	10	50	0.420	3488 46 4
FIS H 16X85 K	16	75	12	50	1.000	3488 46 2
FIS H 20X85 K	20	85	15	20	0.690	3488 46 8

PP Polypropylene

/100 pc.

Injection tie sleeve for use in hollow brick and stones in combination with injection mortar system.

For use of the injection mortar system in porous materials and Poroton stones.

Approval for masonry: Z-21.3-1824



Pressing gun

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
FIS AK	Red	1	140.000	3488 52 7

/pc.

Pressing gun for two-component injection mortar.



Centring sleeve

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
FIS PBZ	—	10	0.350	3488 51 5

PP Polypropylene

/100 pc.

Centring sleeve for using the injection tie system in porous concrete



Conical drill

Type	Bore hole Ø mm	Box quantity pcs	Pack.	Item No.
			pcs	
FIS PBB	15	1	1	3488 52 5

ST Steel

/pc.

Conical drill PBB with SDS chuck for correct, approval mounting of the injection tie system in porous concrete.





Surface refinement and edge protection



Zinc spray

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
ZSF	1	45.000	2362 97 0

/pc.

Zinc spray for treatment of unprotected surfaces and cutting edges. Can contents: 400 ml.
The zinc spray can be used in the temperature range -20 °C to 150 °C.



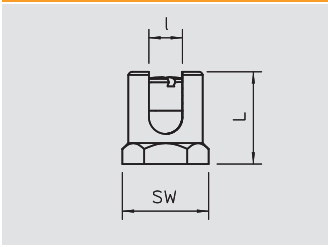
Edge protection strip

Type	For plate thickness mm	Dimension h mm	Colour	Length mm	Weight kg/100 m	Item No.
KSB 2 PVC	1-2	10	Black	10,000	8.000	6072 90 9
KSB 4 PVC	1-4	15	Black	10,000	14.000	6072 89 5

PVC Polyvinylchloride /100 m

Edge protection strip with steel inlay for covering the cut plate ends.

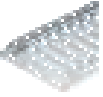




Earthing screw								
Type	Dimen- sion L mm	Dimen- sion I mm	Cross- section mm²	SW mm	Thread	Pack. pcs	Weight kg/100 pcs.	Item No.
B 33020	22	8	25	18	M6	50	3.100	6404 00 6
B 33021	26	10	35	21	M6	50	4.800	6404 01 4
CuZn Brass Bright /100 pc.								
Earthing screw for fastening the equipotential bonding wire to the cable support system.								



Cable tray systems

	Side height 35 mm	Cable tray	
		Perforated, material thickness 0.75 mm	198
		Perforated, material thickness 1.0 mm	
		Connector 35 mm	200
		Fittings 35 mm	201
	Side height 60 mm	Perforated, material thickness 0.75 mm	203
		Perforated, material thickness 1.0 mm	
		Perforated, material thickness 1.5 mm	
		Perforated, material thickness 2.0 mm	
		Unperforated, material thickness 1.0 mm	206
		Unperforated, material thickness 1.5 mm	
		Special, material thickness 1.0 mm	208
		Special, material thickness 1.5 mm	
		Connector 60 mm	210
		Fittings 60 mm	211
	Side height 85 mm	Perforated, material thickness 1.0 mm	215
		Perforated, material thickness 1.5 mm	
		Special, material thickness 1.0 mm	216
		Special, material thickness 1.5 mm	
		Connector 85 mm	217
	Side height 110 mm	Perforated, material thickness 1.0 mm	221
		Perforated, material thickness 1.5 mm	
		Unperforated, material thickness 1.5 mm	222
		Connector 110 mm	223
	System accessories 35, 60, 85, 110	Joint plate	227
		Floor end plate	227
		Mounting plate	227
		Covers	228

Side height 35



Cable tray RKS-Magic®

Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm ²	Dimen- sion x mm	Dimen- sion y mm	Dimen- sion t mm	Appr. load:		Weight kg/100 m	Item No.
								1.5 m	2.0 m		
RKSM 310 FS	100	0.75	3,050	33	—	50	—	0.75	0.35	106.700	6047 41 7
RKSM 320 FS	200	0.75	3,050	68	100	150	—	0.75	0.35	152.300	6047 43 3
RKSM 330 FS	300	0.75	3,050	103	200	250	100	0.75	0.35	213.300	6047 46 0

ST Steel

FS Strip-galvanised

/m

RKSM 35 = Efficient magic cable tray system with 35 mm side height.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.

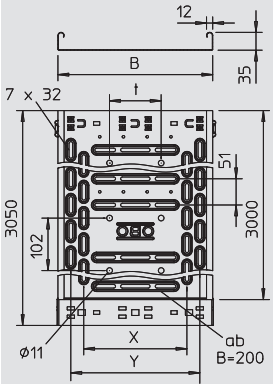
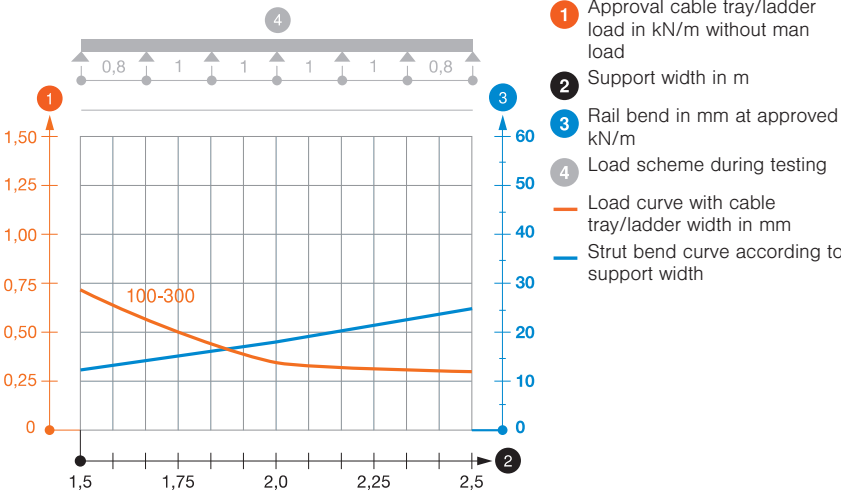
Cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation, with beaded straight base perforation, 7 x 20 mm, for bracket mounting and, from the width 200 mm, with 7 x 32 mm transverse beading for cable ventilation and simplified mounting. With 11 mm perforation for direct threaded rod suspension. Continuous side perforation, 7 x 20 mm, as connector perforation.

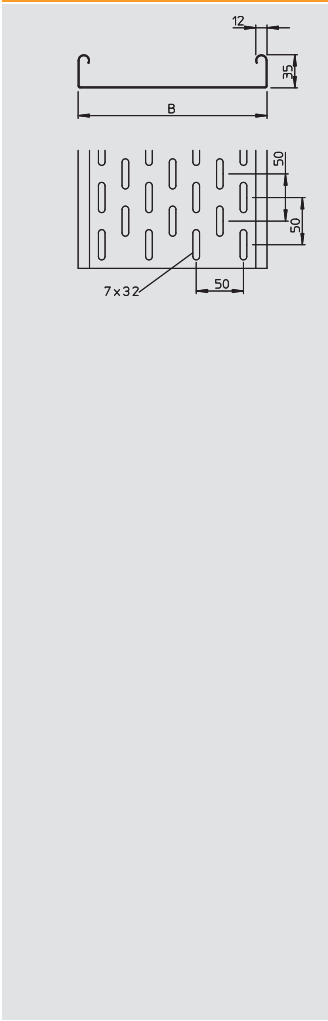
The stock length is 35 mm, the usable length when combined is 35 mm.

The spring element FED 35 can be ordered separately as an accessory part (spare) for the cable tray RKS-Magic with a side height of 35 mm under the article number 6068853.

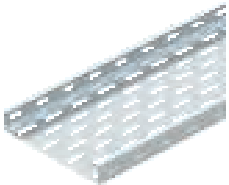
The continuous equipotential bonding is guaranteed without additional components. VDE and function maintenance (DIN 4102 Part 12) tested cable tray system.

Load diagram, cable tray, type RKSM 35





Cable tray MKS

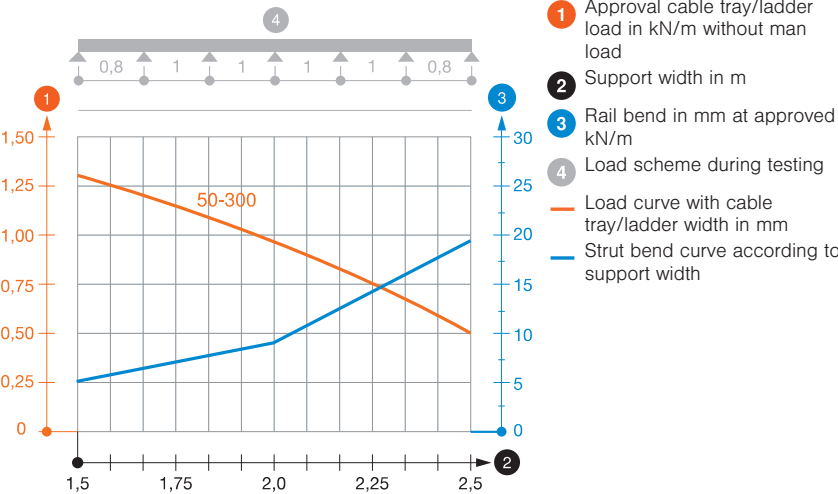


Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm²	Appr. load:			Weight kg/100 m	Item No.
					1.5 m kN/m	2.0 m kN/m	2.5 m kN/m		
MKS 305 FS	50	1	3,000	16	1.25	0.9	0.5	104.000	6053 51 3
MKS 310 FS	100	1	3,000	33	1.25	0.9	0.5	131.600	6053 54 8
MKS 315 FS	150	1	3,000	50,5	1.25	0.9	0.5	158.300	6053 57 2
MKS 320 FS	200	1	3,000	68	1.25	0.9	0.5	199.200	6053 59 9
MKS 330 FS	300	1	3,000	103	1.25	0.9	0.5	266.600	6053 63 7
MKS 305 FT	50	1	3,000	16	1.25	0.9	0.5	113.300	6053 04 1
MKS 310 FT	100	1	3,000	33	1.25	0.9	0.5	133.000	6053 10 6
MKS 315 FT	150	1	3,000	50,5	1.25	0.9	0.5	165.000	6053 16 5
MKS 320 FT	200	1	3,000	68	1.25	0.9	0.5	197.000	6053 20 3
MKS 330 FT	300	1	3,000	103	1.25	0.9	0.5	269.000	6053 30 0

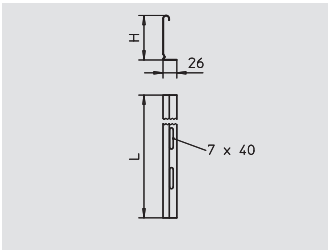
ST Steel FS Strip-galvanised FT Hot-dip galvanised /m

MKS 35 = Medium-duty cable tray system with a side height of 35 mm.
Magnetic shield insulation without cover 20 dB, with cover 50 dB.
FS version includes RV 35 straight connector set.

Load diagram, cable tray, type MKS 35



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

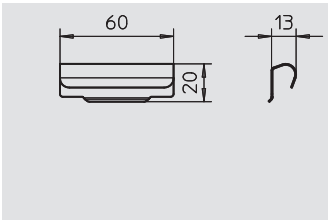


Barrier strip

Type	Dimen- sion H mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
TSG 30 FS	30	3,000	45	0.000	6062 05 0
TSG 30 DD	30	3,000	45	0.000	6062 31 4

ST Steel FS Strip-galvanised DD Zinc-aluminium coated, double-dip /m

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

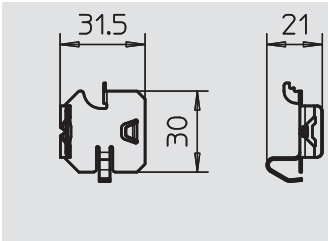


Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1.000	6067 97 0

V2A Stainless steel, 1.4310 /pc.

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



Clamping piece for barrier strip fastening

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KR VA4310	30	0.580	6062 28 0

V2A Stainless steel, 1.4310 /100 pc.

Clamping piece for screwless fastening of barrier strips in the cable tray types RKSM, MKS and SKS.



Side height 35



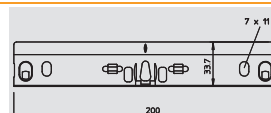
Straight connector set

Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RV 305 FS	35	50	10	13.100	6068 08 1
RV 310 FS	35	100	10	14.400	6068 10 3
RV 320 FS	35	200	10	16.900	6068 11 1
RV 330 FS	35	300	10	19.400	6068 13 8

ST Steel **FS** Strip-galvanised /pc.

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

The continuous earthing connection is guaranteed without a screw connection.



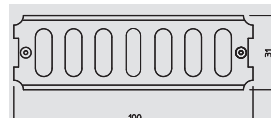
Straight connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RLVK 35 FS	35	10	5.100	6067 08 5
RLVK 35 FT	35	10	5.100	6067 30 1

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

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

Including appropriate fastening material.



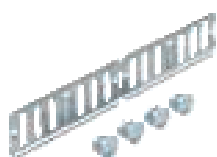
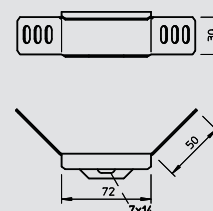
Angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WKV 35 FS	35	5	6.800	6043 03 8

ST Steel **FS** Strip-galvanised /pc.

Angle connector for cable trays with a side height of 35 mm.

Including appropriate fastening material.

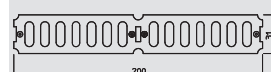


Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWVL 35 FS	35	10	10.500	6067 10 7
RWVL 35 FT	35	10	10.500	6067 32 8

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Straight and angle connector for cable trays, fittings and barrier strips with a side height of 35 mm.

Including appropriate fastening material.



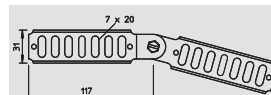
Articulated connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGV 35 FS	35	10	11.000	7082 00 2
RGV 35 FT	35	10	11.000	7082 12 6

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Adjustable connector for cable trays and barrier strips with a side height of 35 mm.

Including appropriate fastening material.



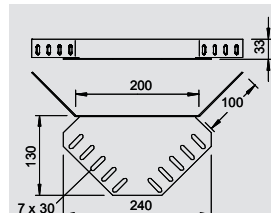
Corner connector

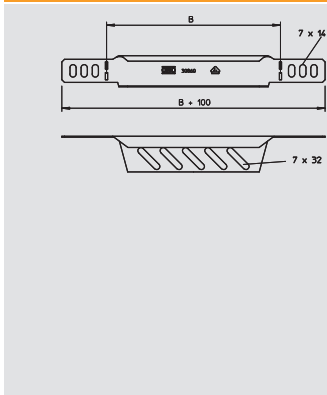
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
REV 35 FS	35	10	39.000	6067 95 6
REV 35 DD	35	10	39.000	6069 30 4

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /pc.

Corner connector for cable trays with side height 35 mm.

Fastening materials should be ordered separately.



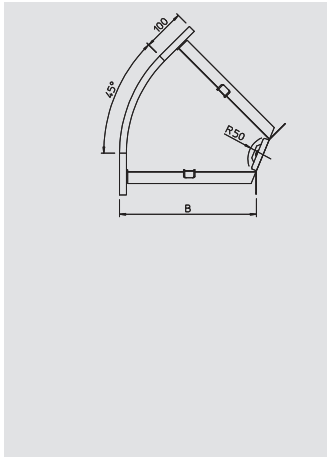
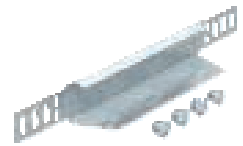


Reducer bracket and end closure

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWEB 305 FS	50	1	3.100	7108 05 2
RWEB 310 FS	100	1	5.500	7108 10 9
RWEB 320 FS	200	1	12.300	7108 20 6
RWEB 330 FS	300	1	18.300	7108 31 1
RWEB 310 DD	100	1	5.500	7107 01 3
RWEB 320 DD	200	1	12.300	7107 04 8
RWEB 330 DD	300	1	18.300	7107 06 4

ST Steel FS Strip-galvanised DD Zinc-aluminium coated, double-dip /pc.

Reducer / stop-end for cable trays with side height 35 mm.
Including appropriate fastening material.

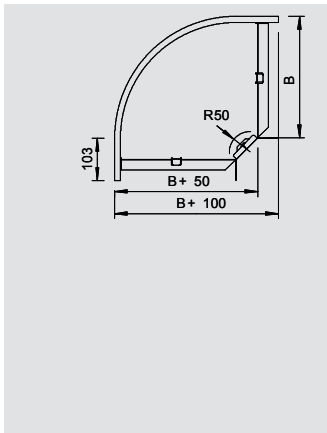


45° bend

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 45 310 FS	100	1	40.000	6043 70 4
RB 45 320 FS	200	1	60.000	6043 71 2
RB 45 330 FS	300	1	90.000	6043 72 0
RB 45 305 FT	50	1	38.000	7065 07 8
RB 45 310 FT	100	1	43.000	7065 11 6
RB 45 315 FT	150	1	54.000	7065 16 7
RB 45 320 FT	200	1	65.000	7065 21 3
RB 45 330 FT	300	1	97.000	7065 31 0

ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.

45° bend, horizontal, for all cable tray types of 35 mm side height.
The WKV 35 angle connector is designed for 90° bends and can be adjusted to 45° on site.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

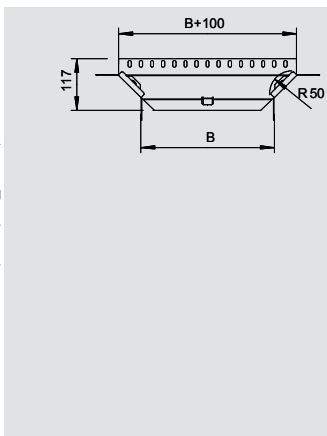


90° bend

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 90 310 FS	100	1	31.100	6043 11 9
RB 90 315 FS	150	1	30.000	6043 12 3
RB 90 320 FS	200	1	64.300	6043 12 7
RB 90 330 FS	300	1	112.300	6043 13 5
RB 90 305 FT	50	1	83.000	7124 07 0
RB 90 310 FT	100	1	48.000	7124 12 0
RB 90 320 FT	200	1	98.000	7124 23 6
RB 90 330 FT	300	1	150.000	7124 32 5

ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.

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



Add-on tee

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RAA 305 FS	50	1	31.000	6040 31 4
RAA 310 FS	100	1	30.000	6040 32 2
RAA 320 FS	200	1	35.000	6040 34 9
RAA 330 FS	300	1	50.000	6040 35 7
RAA 305 FT	50	1	33.000	7120 06 0
RAA 310 FT	100	1	33.000	7120 11 7
RAA 320 FT	200	1	38.000	7120 21 4
RAA 330 FT	300	1	55.000	7120 31 1

ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.

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



Side height 35

90° vertical bend

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 305 S FS	50	1	1	45.000	7007 17 0
RBV 310 S FS	100	1	1	56.000	7007 17 4
RBV 315 S FS	150	1	1	66.900	7007 17 8
RBV 320 S FS	200	1	1	77.900	7007 18 2
RBV 330 S FS	300	1	1	199.700	7007 18 6

ST Steel **FS** Strip-galvanised /pc.

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

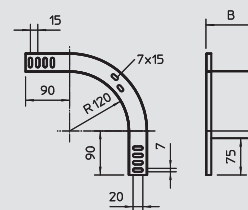
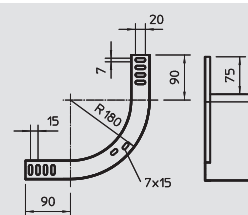
The vertical bend is pushed over the end of the cable tray and screwed tight. Fastening materials should be ordered separately.

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 305 F FS	50	1	1	42.900	7007 20 0
RBV 310 F FS	100	1	1	51.700	7007 20 4
RBV 315 F FS	150	1	1	60.500	7007 20 8
RBV 320 F FS	200	1	1	69.300	7007 21 2
RBV 330 F FS	300	1	1	86.900	7007 21 6

ST Steel **FS** Strip-galvanised /pc.

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

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



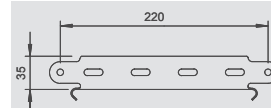
Adjustable vertical bend element

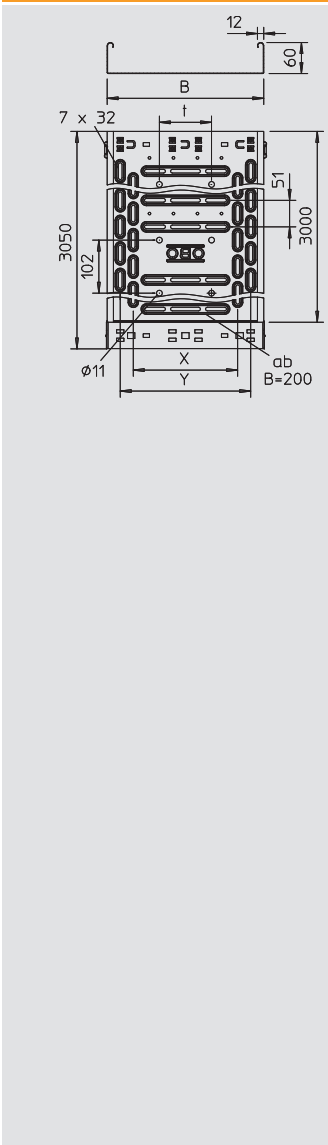
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGBEV 305 FS	50	1	28.700	7005 00 8
RGBEV 310 FS	100	1	38.400	7005 02 4
RGBEV 315 FS	150	1	45.000	7005 01 6
RGBEV 320 FS	200	1	58.800	7005 04 0
RGBEV 330 FS	300	1	79.100	7005 06 7
RGBEV 305 FT	50	1	30.700	7074 05 0
RGBEV 310 FT	100	1	41.200	7074 10 7
RGBEV 315 FT	150	1	49.000	7074 15 8
RGBEV 320 FT	200	1	63.000	7074 20 4
RGBEV 330 FT	300	1	84.800	7074 30 1

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Adjustable vertical bend element, for all cable tray types with a side height of 35 mm.

No additional connectors or joint plates required. Fastening materials should be ordered separately.





Cable tray RKS-Magic®

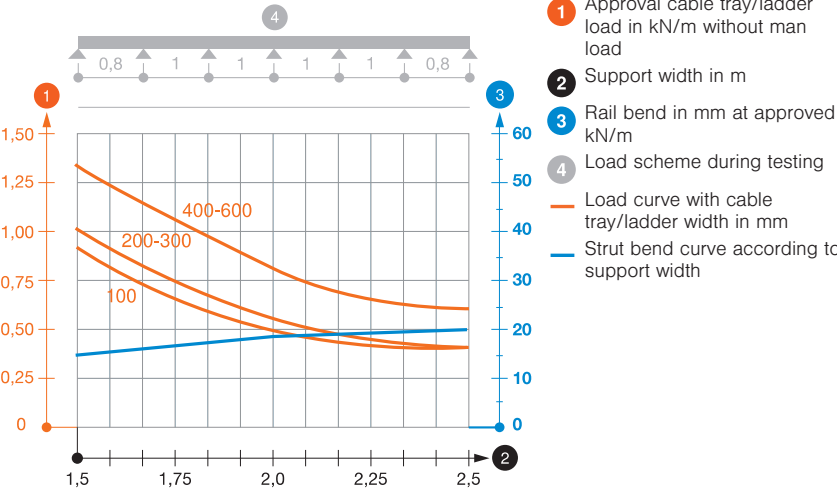


Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm ²	Dimen- sion x mm	Dimen- sion y mm	Dimen- sion t mm	Appr. load:			Weight kg/100 m	Item No.
								1.5 m	2.0 m	2.5 m		
RKSM 610 FS	100	0.75	3,050	58	—	50	—	0.9	0.5	0.4	134.300	6047 61 1
RKSM 615 FS	150	0.75	3,050	88	50	100	—	1.0	0.55	0.4	157.700	6047 63 0
RKSM 620 FS	200	0.75	3,050	118	100	150	—	1.0	0.55	0.4	183.000	6047 63 8
RKSM 630 FS	300	0.75	3,050	178	200	250	100	1.0	0.55	0.4	239.000	6047 65 4
RKSM 640 FS	400	0.9	3,050	238	300	350	200	1.35	0.8	0.6	331.300	6047 68 9
RKSM 650 FS	500	0.9	3,050	298	400	450	300	1.35	0.8	0.6	392.300	6047 71 9
RKSM 660 FS	600	0.9	3,050	358	450	550	400	1.35	0.8	0.6	453.330	6047 73 5

ST Steel FS Strip-galvanized /m

RKSM 60 = efficient magic cable tray system with 60 mm side height.
Magnetic shield insulation without cover 20 dB, with cover 50 dB.
Cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation, with beaded straight base perforation, 7 x 20 mm, for bracket mounting and, from the width 200 mm, with 7 x 32 mm transverse beading for cable ventilation and simplified mounting. With 11 mm perforation for direct threaded rod suspension. Continuous side perforation, 7 x 20 mm, as connector perforation.
The stock length is 60 mm, the usable length when combined is 60 mm.
The spring element FED 60 can be ordered separately as a accessory part (spare) for the cable tray RKS-Magic with a side height of 60 mm under the article number 6068859.
The continuous equipotential bonding is guaranteed without additional components.
VDE and function maintenance (DIN 4102 Part 12) tested cable tray system.

Load diagram, cable tray, type RKSM 60



Side height 60



Cable tray MKS

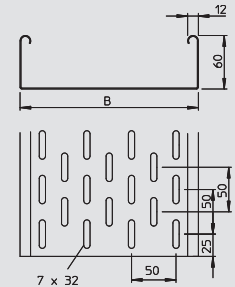
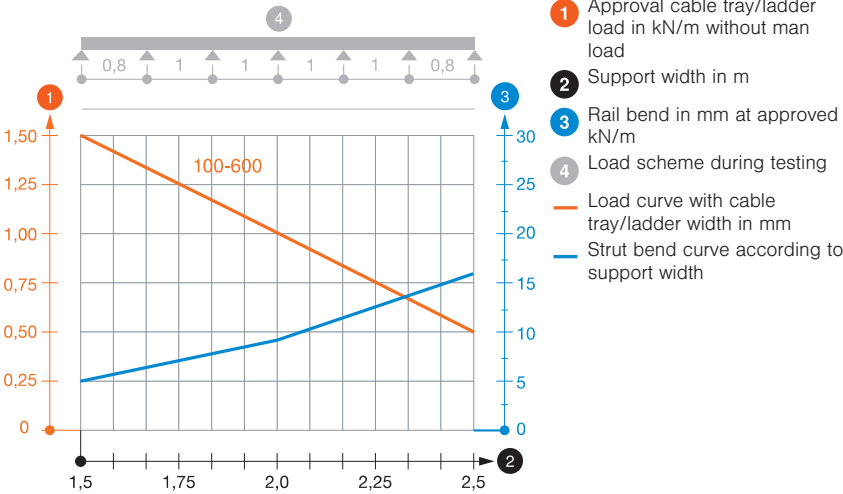
Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm ²	Appr. load:			Weight kg/100 m	Item No.
					1.5 m kN/m	2.0 m kN/m	2.5 m kN/m		
MKS 605 FS	50	1	3,000	28	1.5	1.0	0.5	143.200	6055 05 2
MKS 610 FS	100	1	3,000	58	1.5	1.0	0.5	173.000	6055 10 9
MKS 615 FS	150	1	3,000	88	1.5	1.0	0.5	227.600	6055 14 1
MKS 620 FS	200	1	3,000	118	1.5	1.0	0.5	238.600	6055 20 6
MKS 630 FS	300	1	3,000	178	1.5	1.0	0.5	304.600	6055 30 3
MKS 640 FS	400	1	3,000	238	1.5	1.0	0.5	368.000	6055 40 0
MKS 650 FS	500	1	3,000	298	1.5	1.0	0.5	433.500	6055 50 8
MKS 660 FS	600	1	3,000	358	1.5	1.0	0.5	498.000	6055 52 4
MKS 605 FT	50	1	3,000	28	1.5	1.0	0.5	133.000	6055 51 6
MKS 610 FT	100	1	3,000	58	1.5	1.0	0.5	188.000	6055 53 2
MKS 615 FT	150	1	3,000	88	1.5	1.0	0.5	215.600	6055 55 9
MKS 620 FT	200	1	3,000	118	1.5	1.0	0.5	261.000	6055 57 5
MKS 630 FT	300	1	3,000	178	1.5	1.0	0.5	331.000	6055 61 3
MKS 640 FT	400	1	3,000	238	1.5	1.0	0.5	402.000	6055 66 4
MKS 650 FT	500	1	3,000	298	1.5	1.0	0.5	510.000	6055 69 9
MKS 660 FT	600	1	3,000	358	1.5	1.0	0.5	527.600	6055 71 0

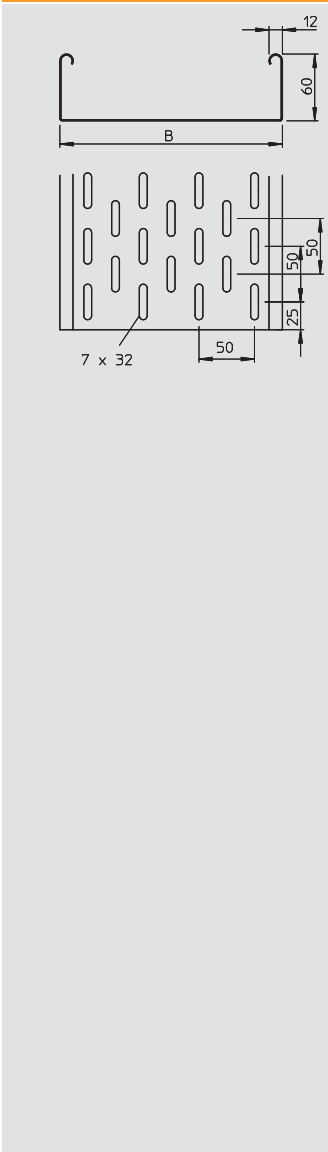
ST Steel FS Strip-galvanised FT Hot-dip galvanised /m

MKS 60 = medium-duty cable tray system with a side height of 60 mm. FS version includes RV 60 straight connector set.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Load diagram, cable tray, type MKS 60





Cable tray SKS



Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm ²	Appr. load:				Weight kg/100 m	Item No.
					1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m		
SKS 610 FS	100	1.5	3,000	58	2.65	1.8	1.15	0.5	239.400	6056 10 5
SKS 615 FS	150	1.5	3,000	88	2.65	1.8	1.15	0.5	254.000	6056 15 6
SKS 620 FS	200	1.5	3,000	118	2.65	1.8	1.15	0.5	356.800	6056 20 2
SKS 630 FS	300	1.5	3,000	178	2.65	1.8	1.15	0.5	455.300	6056 29 6
SKS 640 FS	400	1.5	3,000	238	2.65	1.8	1.15	0.5	522.400	6056 40 7
SKS 650 FS	500	1.5	3,000	298	2.65	1.8	1.15	0.5	650.300	6056 50 4
SKS 660 FS	600	1.5	3,000	358	2.65	1.8	1.15	0.5	726.600	6056 60 1
SKS 610 FT	100	1.5	3,000	58	2.65	1.8	1.15	0.5	270.000	6056 63 6
SKS 615 FT	150	1.5	3,000	88	2.65	1.8	1.15	0.5	335.000	6056 64 4
SKS 620 FT	200	1.5	3,000	118	2.65	1.8	1.15	0.5	407.400	6056 65 2
SKS 630 FT	300	1.5	3,000	178	2.65	1.8	1.15	0.5	536.200	6056 67 9
SKS 640 FT	400	1.5	3,000	238	2.65	1.8	1.15	0.5	603.000	6056 69 5
SKS 650 FT	500	1.5	3,000	298	2.65	1.8	1.15	0.5	689.000	6056 71 7
SKS 660 FT	600	1.5	3,000	358	2.65	1.8	1.15	0.5	791.400	6056 73 3

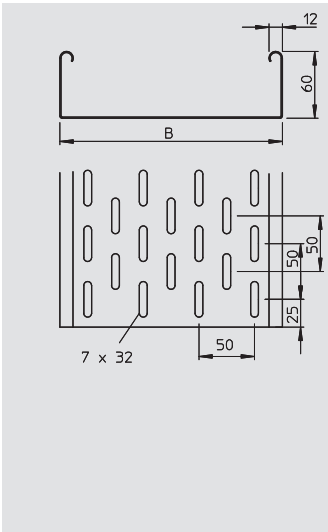
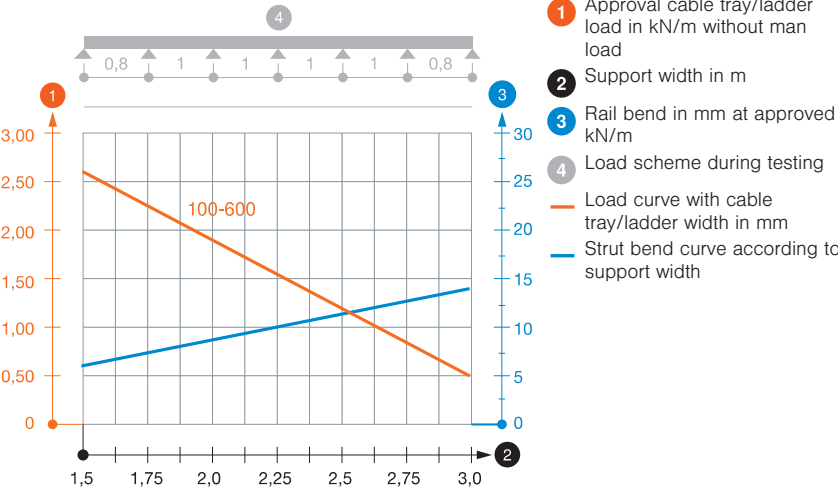
ST Steel FS Strip-galvanised FT Hot-dip galvanised /m

SKS 60 = heavy-duty cable tray system with 60 mm side height. FS version includes RV 60 straight connector set.

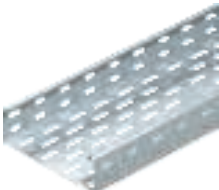
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

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

Load diagram, cable tray, type SKS 60



Cable tray EKS



Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm ²	Weight kg/100 m	Item No.
EKS 610 FS	100	2	3,000	58	350.000	6056 14 8
EKS 620 FS	200	2	3,000	118	482.000	6056 22 9
EKS 630 FS	300	2	3,000	178	608.000	6056 32 6
EKS 640 FS	400	2	3,000	238	764.000	6056 42 3
EKS 650 FS	500	2	3,000	298	852.000	6056 52 0
EKS 660 FS	600	2	3,000	358	1,003.000	6056 62 8
EKS 610 FT	100	2	3,000	58	367.000	6056 77 6
EKS 620 FT	200	2	3,000	118	507.000	6056 79 2
EKS 630 FT	300	2	3,000	178	640.000	6056 80 6
EKS 640 FT	400	2	3,000	238	804.000	6056 97 0
EKS 650 FT	500	2	3,000	298	897.000	6056 98 9
EKS 660 FT	600	2	3,000	358	1,055.000	6056 99 7

ST Steel FS Strip-galvanised FT Hot-dip galvanised /m

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

Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Straight connectors should be ordered separately for all the versions.

Side height 60



Cable tray MKSU

Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm ²	Appr. load:				Weight kg/100 m	Item No.
					1.5 m kN/m	1.75 m kN/m	2.0 m kN/m	2.5 m kN/m		
MKSU 610 FS	100	1	3,000	58	1.5	1.25	1.0	0.5	189.000	6063 16 0
MKSU 615 FS	150	1	3,000	88	1.5	1.25	1.0	0.5	229.300	6063 17 9
MKSU 620 FS	200	1	3,000	118	1.5	1.25	1.0	0.5	266.700	6063 18 7
MKSU 630 FS	300	1	3,000	178	1.5	1.25	1.0	0.5	347.000	6063 20 9
MKSU 640 FS	400	1	3,000	238	1.5	1.25	1.0	0.5	426.000	6063 22 5
MKSU 610 FT	100	1	3,000	58	1.5	1.25	1.0	0.5	201.000	6064 30 2
MKSU 615 FT	150	1	3,000	88	1.5	1.25	1.0	0.5	250.000	6064 31 9
MKSU 620 FT	200	1	3,000	118	1.5	1.25	1.0	0.5	290.000	6064 34 5
MKSU 630 FT	300	1	3,000	178	1.5	1.25	1.0	0.5	378.000	6064 39 6
MKSU 640 FT	400	1	3,000	238	1.5	1.25	1.0	0.5	464.000	6064 42 6

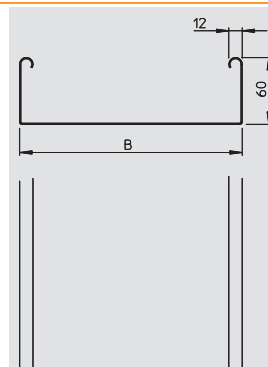
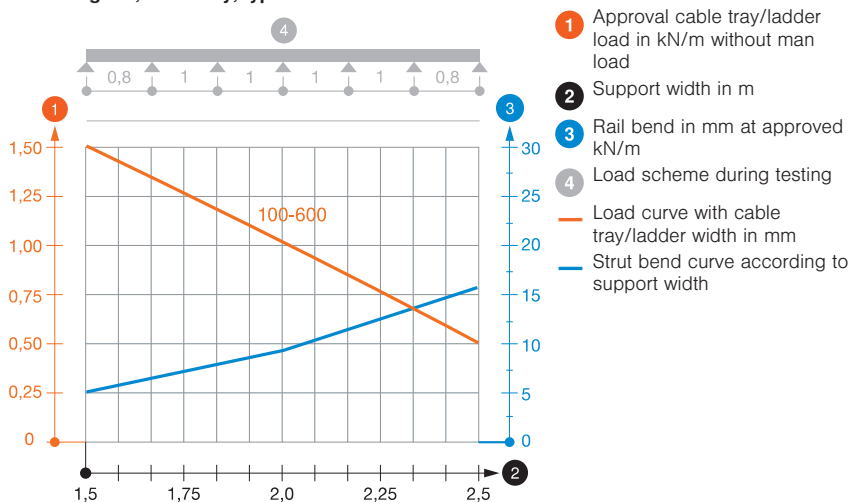
ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /m

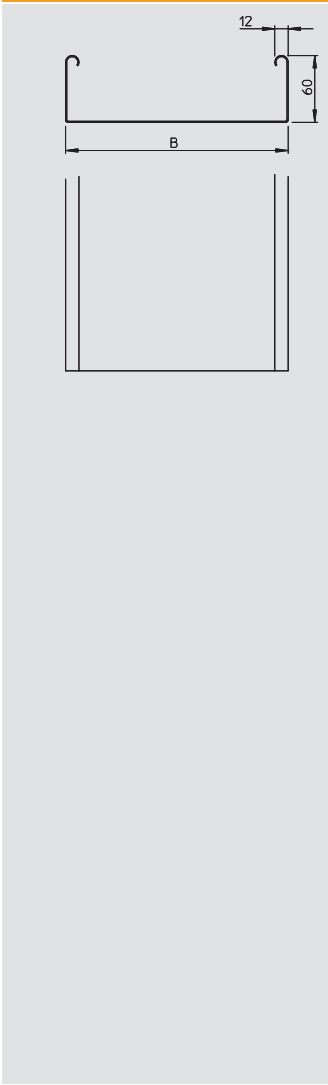
MKSU 60 = medium-duty cable tray system, unperforated, with a side height of 60 mm. Straight connectors should be ordered in the appropriate quantity.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.

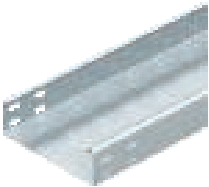
The cable tray has connector perforations on both sides.

Load diagram, cable tray, type MKSU 60





Cable tray SKSU



Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm ²	Appr. load:				Weight kg/100 m	Item No.
					1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m		
SKSU 610 FS	100	1.5	3,000	58	2.6	1.9	1.1	0.55	286.000	6063 23 4
SKSU 620 FS	200	1.5	3,000	118	2.6	1.9	1.1	0.55	400.000	6063 23 6
SKSU 630 FS	300	1.5	3,000	178	2.6	1.9	1.1	0.55	516.000	6063 23 8
SKSU 640 FS	400	1.5	3,000	238	2.6	1.9	1.1	0.55	639.000	6063 95 0
SKSU 650 FS	500	1.5	3,000	298	2.6	1.9	1.1	0.55	756.700	6063 24 1
SKSU 660 FS	600	1.5	3,000	358	2.6	1.9	1.1	0.55	877.000	6063 27 6
SKSU 610 FT	100	1.5	3,000	58	2.6	1.9	1.1	0.55	303.000	6064 30 7
SKSU 620 FT	200	1.5	3,000	118	2.6	1.9	1.1	0.55	427.300	6064 35 3
SKSU 630 FT	300	1.5	3,000	178	2.6	1.9	1.1	0.55	555.000	6064 40 9
SKSU 640 FT	400	1.5	3,000	238	2.6	1.9	1.1	0.55	687.000	6064 43 5
SKSU 650 FT	500	1.5	3,000	298	2.6	1.9	1.1	0.55	802.000	6064 51 5
SKSU 660 FT	600	1.5	3,000	358	2.6	1.9	1.1	0.55	929.700	6064 52 3

ST Steel FS Strip-galvanised FT Hot-dip galvanised /m

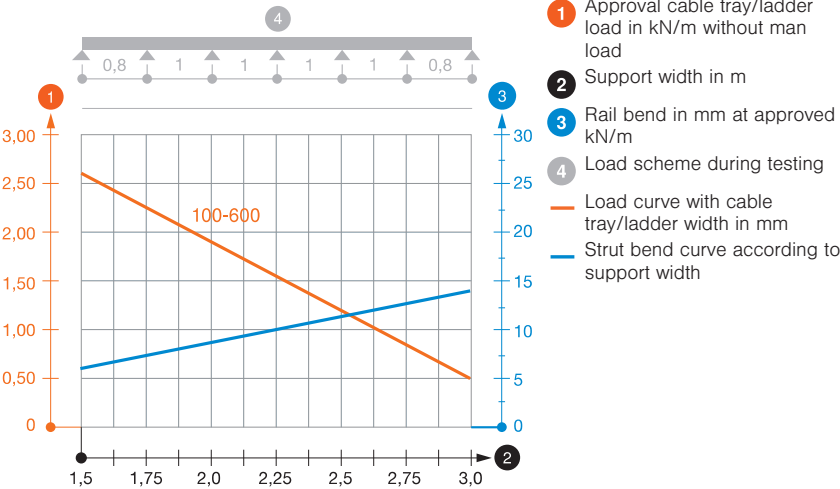
SKS 60 = heavy-duty cable tray system, unperforated, with 60 mm side height.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.

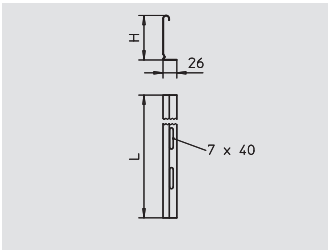
The cable tray has connector perforations on both sides.

Straight connectors should be ordered separately and in the appropriate quantity.

Load diagram, cable tray, type SKSU 60



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

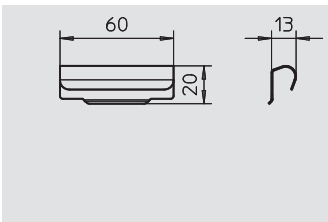


Barrier strip

Type	Dimen- sion H mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
TSG 60 FS	60	3,000	45	0.000	6062 06 8
TSG 60 DD	60	3,000	45	0.000	6062 32 7

ST Steel FS Strip-galvanised DD Zinc-aluminium coated, double-dip /m

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

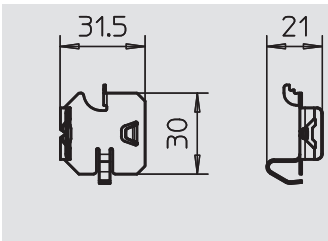


Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1.000	6067 97 0

V2A Stainless steel, 1.4310 /pc.

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



Clamping piece for barrier strip fastening

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KR VA4310	30	0.580	6062 28 0

V2A Stainless steel, 1.4310 /100 pc.

Clamping piece for screwless fastening of barrier strips in the cable tray types RKSM, MKS and SKS.



Side height 60



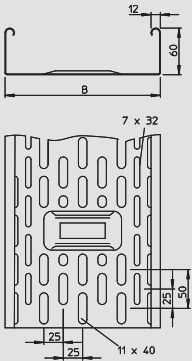
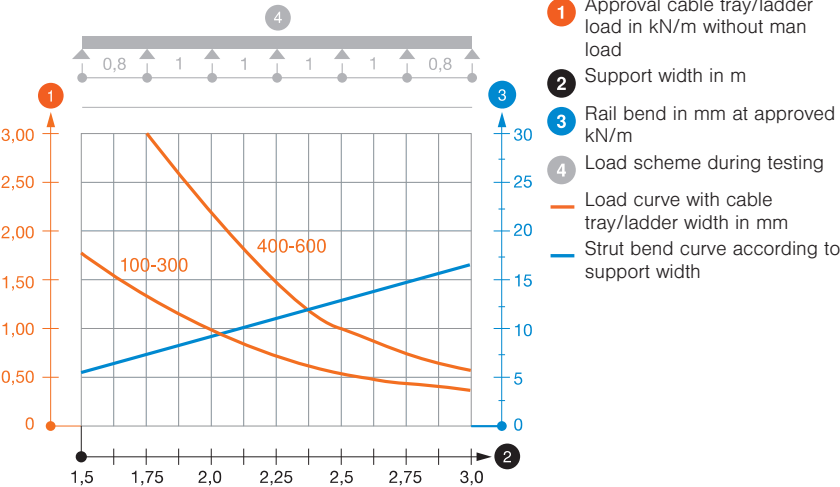
Cable tray DKS

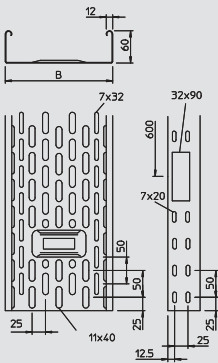
Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm²	Appr. load:				Weight kg/100 m	Item No.
					1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m		
DKS 610 FS	100	1	3,000	58	1.75	0.95	0.5	0.4	157.000	6085 01 6
DKS 620 FS	200	1	3,000	118	1.75	0.95	0.5	0.4	213.000	6085 03 2
DKS 630 FS	300	1	3,000	178	1.75	0.95	0.5	0.4	265.000	6085 05 9
DKS 640 FS	400	1.5	3,000	238	3.0	2.25	1.0	0.65	491.000	6085 20 2
DKS 650 FS	500	1.5	3,000	298	3.0	2.25	1.0	0.65	569.000	6085 22 9
DKS 660 FS	600	1.5	3,000	358	3.0	2.25	1.0	0.65	645.000	6085 24 5
DKS 610 FT	100	1	3,000	58	1.75	0.95	0.5	0.4	171.000	6085 32 6
DKS 620 FT	200	1	3,000	118	1.75	0.95	0.5	0.4	233.000	6085 34 2
DKS 630 FT	300	1	3,000	178	1.75	0.95	0.5	0.4	288.000	6085 36 9
DKS 640 FT	400	1.5	3,000	238	3.0	2.25	1.0	0.65	521.000	6085 51 2
DKS 650 FT	500	1.5	3,000	298	3.0	2.25	1.0	0.65	603.000	6085 53 9
DKS 660 FT	600	1.5	3,000	358	3.0	2.25	1.0	0.65	685.000	6085 55 5

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /m

DKS 60 = perforated cable tray system with 60 mm side height.
Magnetic shield insulation without cover 20 dB, with cover 50 dB.
Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.
Bottom penetration from width 200 mm.
Connecting parts should be ordered in the appropriate quantity.

Load diagram, cable tray, type DKS 60





Cable tray IKS

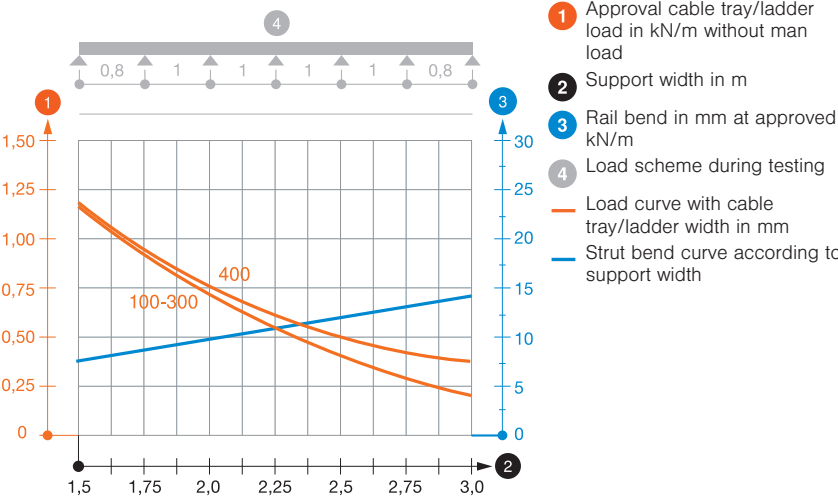


Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm²	Appr. load:			Weight kg/100 m	Item No.
					1.5 m kN/m	2.0 m kN/m	2.5 m kN/m		
IKS 610 FS	100	1	3,000	58	1.17	0.75	0.4	153.000	6087 11 6
IKS 620 FS	200	1	3,000	118	1.17	0.75	0.4	210.000	6087 13 2
IKS 630 FS	300	1	3,000	178	1.17	0.75	0.4	260.000	6087 14 0
IKS 640 FS	400	1	3,000	238	1.17	0.75	0.4	320.000	6087 15 9

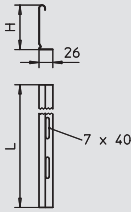
ST Steel **FS** Strip-galvanised /m

IKS 60 = installation cable tray system with 60 mm side height.
Magnetic shield insulation without cover 20 dB, with cover 50 dB.
Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.
Bottom penetration from width 200 mm. Offset side holes every 300 mm.
Connecting parts should be ordered in the appropriate quantity.

Load diagram, cable tray, type IKS 60



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

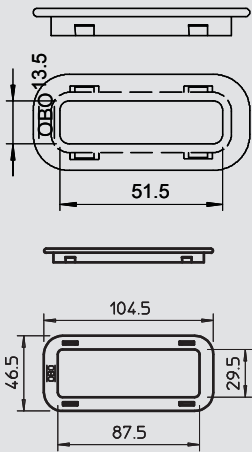


Barrier strip

Type	Dimen- sion H mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
TSG 45 FS	45	3,000	45	0.000	6062 03 3
TSG 45 DD	45	3,000	45	0.000	6062 32 1

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /m

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



Cable protection ring

Type	Colour	For perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-910 PE	Light grey	20 x 58	25	0.450	6066 71 2

PE Polyethylene /pc.

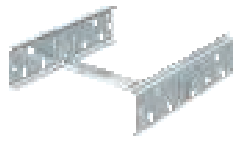
Cable protection ring for bottom penetrations in cable trays of type DKS, IKS and for side penetrations in AZ channels and luminaire support trays.

Type	Colour	For side perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-DR 920 PE	Light grey	32 x 90	25	0.640	6087 96 5

PE Polyethylene /pc.

Cable protection ring for side penetrations in the side rails of the IKS cable tray.

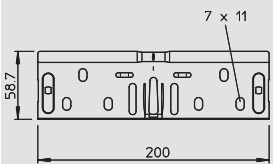
Side height 60



Straight connector set

Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RV 605 FS	60	50	10	17.100	6068 14 6
RV 607 FS	60	75	10	17.800	6068 15 0
RV 610 FS	60	100	10	18.400	6068 15 4
RV 615 FS	60	150	10	19.600	6068 16 2
RV 620 FS	60	200	10	20.900	6068 17 0
RV 630 FS	60	300	10	23.400	6068 18 9
RV 640 FS	60	400	10	30.900	6068 19 7
RV 650 FS	60	500	10	34.700	6068 20 0
RV 660 FS	60	600	10	38.400	6068 21 9
RV 610 DD	60	100	10	18.400	6068 35 1
RV 615 DD	60	150	10	19.600	6068 35 5
RV 620 DD	60	200	10	20.900	6068 35 9
RV 630 DD	60	300	10	23.400	6068 36 3
RV 640 DD	60	400	10	30.900	6068 36 7
RV 650 DD	60	500	10	34.700	6068 37 1
RV 660 DD	60	600	10	38.400	6068 37 5

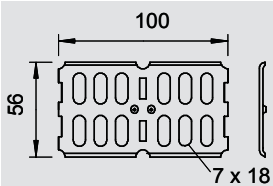
ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /pc.
 Straight connector set for straight, screwless connections of cable trays and fittings with a side height of 60 mm.
 The continuous earthing connection is guaranteed without a screw connector.



Straight connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RLVK 60 FS	60	10	9.200	6067 09 3
RLVK 60 FT	60	10	10.700	6067 60 3

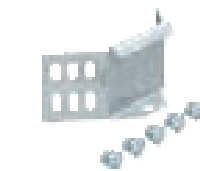
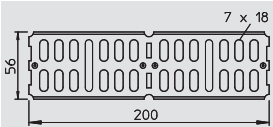
ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.
 Straight connector for straight connection of cable trays, fittings and barrier strips with a side height of 60 mm.
 Including appropriate fastening material.



Straight and angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWVL 60 FS	60	10	15.600	6067 11 5
RWVL 60 FT	60	10	17.400	6067 61 1

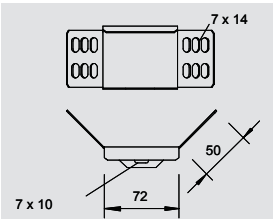
ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.
 Straight and angle connector for cable trays, fittings and barrier strips with a side height of 60 mm.
 Including appropriate fastening material.



Angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WKV 60 FS	60	5	13.000	6043 06 2
WKV 60 FT	60	5	14.000	6042 91 0

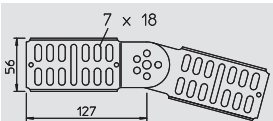
ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.
 Angle connector for cable trays with a side height of 60 mm.
 Including appropriate fastening material.

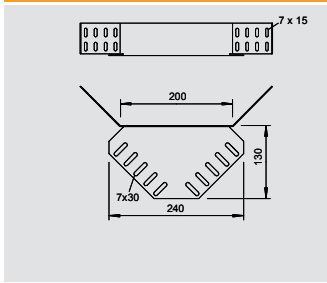


Articulated connector

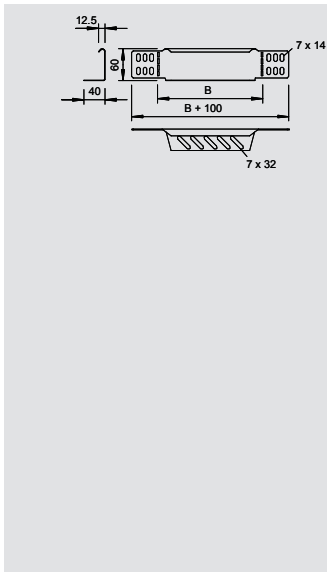
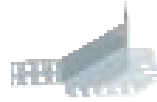
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGV 60 FS	60	10	24.000	7082 01 0
RGV 60 FT	60	10	24.000	7082 22 3

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.
 Adjustable connector for cable trays and barrier strips with a side height of 60 mm.
 Including appropriate fastening material.

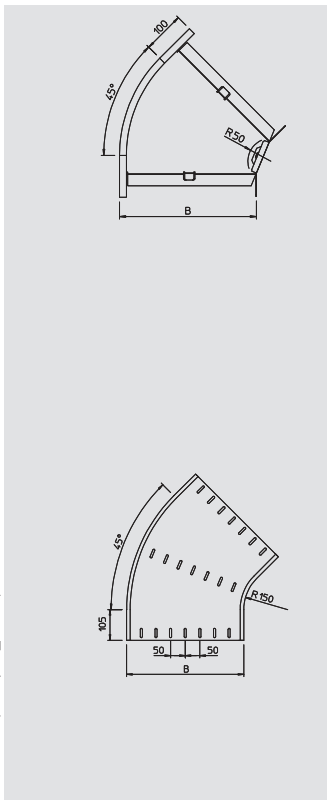




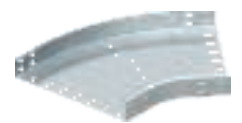
Corner connector				
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
REV 60 FS	60	10	50.000	6067 97 2
REV 60 DD	60	10	50.000	6069 41 0
ST Steel FS Strip-galvanised DD Zinc-aluminium coated, double-dip /pc.				
Corner connector for cable trays with side height 60 mm. Fastening materials should be ordered separately.				



Reducer bracket and end closure					
Type	Side height	Width	Pack.	Weight	Item No.
	mm	mm	pcs	kg/100 pcs.	
RWEB 610 FS	60	100	1	8.800	7109 10 5
RWEB 615 FS	60	150	1	13.600	7109 15 6
RWEB 620 FS	60	200	1	17.600	7109 20 2
RWEB 630 FS	60	300	1	25.600	7109 29 6
RWEB 640 FS	60	400	1	33.500	7109 40 7
RWEB 650 FS	60	500	1	41.500	7109 50 4
RWEB 660 FS	60	600	1	49.500	7109 60 1
RWEB 605 DD	60	50	1	6.000	7107 14 5
RWEB 610 DD	60	100	1	8.600	7106 10 6
RWEB 615 DD	60	150	1	13.400	7106 11 0
RWEB 620 DD	60	200	1	17.500	7106 11 4
RWEB 630 DD	60	300	1	25.400	7106 11 8
RWEB 640 DD	60	400	1	33.000	7106 12 2
RWEB 650 DD	60	500	1	41.300	7106 12 6
RWEB 660 DD	60	600	1	49.200	7106 13 0
ST Steel FS Strip-galvanised DD Zinc-aluminium coated, double-dip /pc.					
Reducer/end closure for cable trays with side height 60 mm.					
Including appropriate fastening material.					



45° bend				
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 45 610 FS	100	1	33.000	6043 76 3
RB 45 615 FS	150	1	43.000	6043 75 5
RB 45 620 FS	200	1	54.000	6043 77 1
RB 45 630 FS	300	1	82.000	6043 79 8
RB 45 610 FT	100	1	48.000	7066 11 2
RB 45 615 FT	150	1	62.000	7066 15 8
RB 45 620 FT	200	1	75.000	7066 22 8
RB 45 630 FT	300	1	110.000	7066 31 7
ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.				
45° bend, horizontal, for all cable tray types of 60 mm side height. The fitting is shipped in an unmounted state. The WKV 60 angle connector is designed for 90° bends and can be adjusted to 45° on site. Including appropriate fastening material.				
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 45 640 FS	400	1	212.200	7000 38 3
RB 45 650 FS	500	1	279.500	7000 40 5
RB 45 660 FS	600	1	352.600	7000 42 1
RB 45 640 FT	400	1	212.200	7066 40 6
RB 45 650 FT	500	1	279.500	7066 50 3
RB 45 660 FT	600	1	352.600	7066 60 0
ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.				
45° bend, horizontal, for all cable tray types of 60 mm side height. Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.				



Side height 60



90° bend

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RB 90 610 FS	100	1	56.000	6043 21 6
RB 90 615 FS	150	1	57.300	6043 20 8
RB 90 620 FS	200	1	95.000	6043 22 4
RB 90 630 FS	300	1	150.000	6043 23 2
RB 90 610 FT	100	1	60.000	7125 10 0
RB 90 615 FT	150	1	80.000	7125 18 9
RB 90 620 FT	200	1	101.000	7125 22 0
RB 90 630 FT	300	1	160.000	7125 30 5

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

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

The fitting is shipped in an unmounted state.

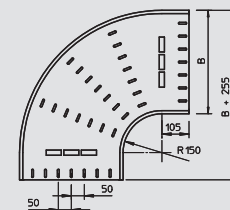
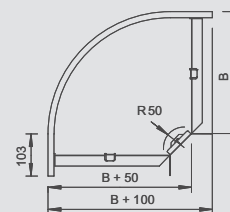
Including appropriate fastening material.

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RB 90 640 FS	400	1	523.400	7001 29 0
RB 90 650 FS	500	1	683.400	7001 30 4
RB 90 660 FS	600	1	864.900	7001 31 2
RB 90 640 FT	400	1	570.500	7125 41 0
RB 90 650 FT	500	1	744.900	7125 52 6
RB 90 660 FT	600	1	942.700	7125 58 5

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

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

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



Add-on tee

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RAA 610 FS	100	1	43.000	6040 40 3
RAA 615 FS	150	1	38.000	6040 41 1
RAA 620 FS	200	1	40.000	6040 43 8
RAA 630 FS	300	1	50.000	6040 44 6
RAA 610 FT	100	1	60.000	7121 10 9
RAA 615 FT	150	1	41.000	7121 20 5
RAA 620 FT	200	1	43.000	7121 21 0
RAA 630 FT	300	1	55.000	7121 31 8

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /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.

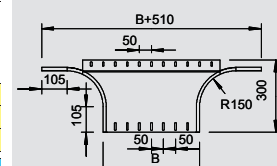
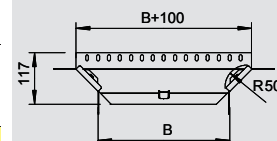
Including appropriate fastening material.

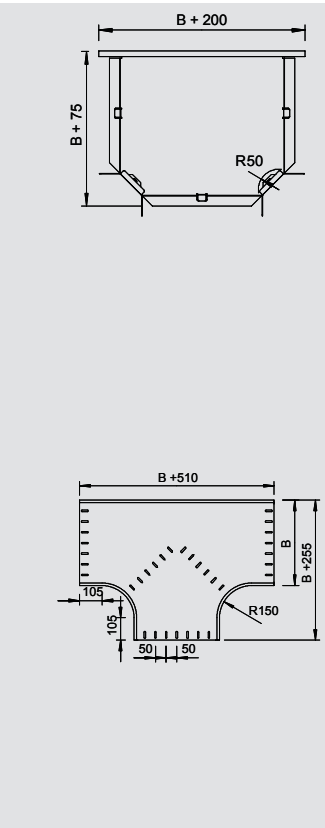
Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RAA 640 FS	400	1	220.000	7002 39 4
RAA 650 FS	500	1	255.000	7002 41 6
RAA 660 FS	600	1	285.000	7002 43 2
RAA 640 FT	400	1	240.000	7121 40 7
RAA 650 FT	500	1	280.000	7121 50 4
RAA 660 FT	600	1	310.000	7121 60 1

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

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

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





Horizontal tee				
Type	Width	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
RT 610 FS	100	1	70.000	6043 41 0
RT 615 FS	150	1	75.000	6043 40 2
RT 620 FS	200	1	122.000	6043 42 9
RT 630 FS	300	1	190.000	6043 43 7
RT 610 FT	100	1	75.000	7117 11 6
RT 615 FT	150	1	102.000	7117 16 2
RT 620 FT	200	1	130.000	7117 20 9
RT 630 FT	300	1	210.000	7117 30 6

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Horizontal tee, for all cable tray types of 60 mm side height.

The fitting is shipped in an unmounted state. All the sides are designed for the same cable tray width.

Including appropriate fastening material.

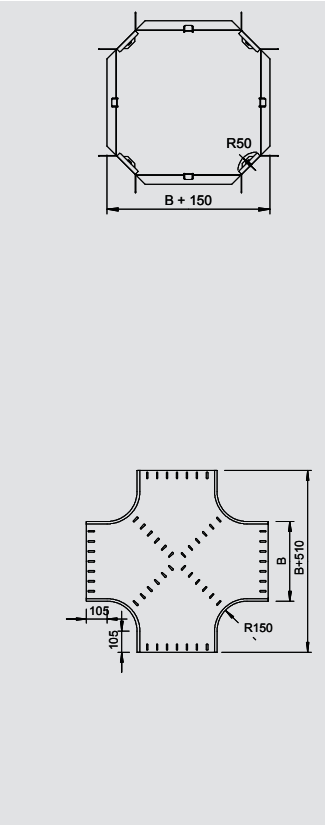
Type	Width	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
RT 640 FS	400	1	629.000	7003 39 0
RT 650 FS	500	1	804.000	7003 41 2
RT 660 FS	600	1	1,001.000	7003 43 9
RT 640 FT	400	1	629.000	7117 39 6
RT 650 FT	500	1	804.500	7117 50 7
RT 660 FT	600	1	1,001.700	7117 60 4

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Horizontal tee, for all cable tray types of 60 mm side height.

Fitting in round design. The interior radius of the fitting is 150 mm. All the sides are designed for the same cable tray width.

Fastening materials should be ordered separately.



Horizontal cross-over				
Type	Width	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
RK 610 FS	100	1	69.900	6043 61 5
RK 615 FS	150	1	90.000	6043 60 7
RK 620 FS	200	1	110.900	6043 62 3
RK 630 FS	300	1	168.400	6043 63 1
RK 610 FT	100	1	75.000	7113 11 0
RK 615 FT	150	1	102.000	7113 15 8
RK 620 FT	200	1	130.000	7113 21 8
RK 630 FT	300	1	200.000	7113 31 5

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Horizontal cross-over for all cable tray types of 60 mm side height.

The fitting is shipped in an unmounted state. All the sides are designed for the same cable tray width.

Including appropriate fastening material.

Type	Width	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
RK 640 FS	400	1	800.000	7004 39 7
RK 650 FS	500	1	1,120.000	7004 41 9
RK 660 FS	600	1	1,250.000	7004 43 5
RK 640 FT	400	1	860.000	7113 40 4
RK 650 FT	500	1	1,190.000	7113 50 1
RK 660 FT	600	1	1,340.000	7113 60 9

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Horizontal cross-over for all cable tray types of 60 mm side height.

Fitting in round design. The interior radius of the fitting is 150 mm. All the sides are designed for the same cable tray width.

Fastening materials should be ordered separately.



Side height 60

90° vertical bend

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RBV 605 S FS	50	1	50.000	7007 00 1
RBV 610 S FS	100	1	66.000	7007 00 5
RBV 615 S FS	150	1	78.000	7007 00 9
RBV 620 S FS	200	1	95.000	7007 01 3
RBV 630 S FS	300	1	124.000	7007 01 7
RBV 640 S FS	400	1	153.000	7007 02 1
RBV 650 S FS	500	1	181.000	7007 02 5
RBV 660 S FS	600	1	210.000	7007 02 9

ST Steel **FS** Strip-galvanised /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.

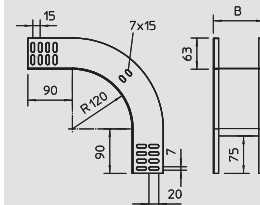
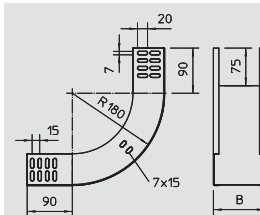
Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RBV 605 F FS	50	1	49.000	7007 05 1
RBV 610 F FS	100	1	61.000	7007 05 5
RBV 615 F FS	150	1	73.000	7007 05 9
RBV 620 F FS	200	1	84.000	7007 06 3
RBV 630 F FS	300	1	107.000	7007 06 7
RBV 640 F FS	400	1	130.000	7007 07 1
RBV 650 F FS	500	1	153.000	7007 07 5
RBV 660 F FS	600	1	176.000	7007 07 9

ST Steel **FS** Strip-galvanised /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.



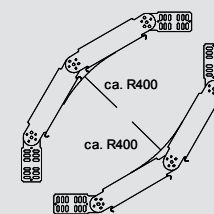
90° adjustable vertical bend

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RGBV 610 FS	100	1	171.600	7006 32 2
RGBV 615 FS	150	1	194.000	7006 33 0
RGBV 620 FS	200	1	219.000	7006 34 9
RGBV 630 FS	300	1	264.000	7006 36 5
RGBV 640 FS	400	1	311.000	7006 38 1
RGBV 650 FS	500	1	394.000	7006 41 1
RGBV 660 FS	600	1	448.000	7006 44 6
RGBV 610 FT	100	1	171.600	7079 10 9
RGBV 615 FT	150	1	194.800	7079 14 1
RGBV 620 FT	200	1	217.800	7079 20 6
RGBV 630 FT	300	1	264.600	7079 30 3
RGBV 640 FT	400	1	311.000	7079 40 0
RGBV 650 FT	500	1	394.200	7079 50 8
RGBV 660 FT	600	1	448.200	7079 60 5

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

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

The bend is shipped in an unmounted state. No additional fastening materials are required.



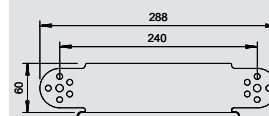
Adjustable vertical bend element

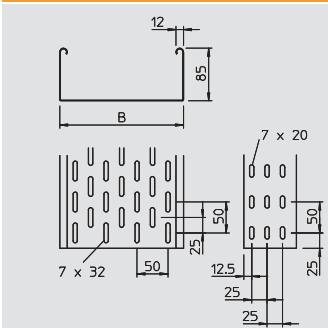
Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RGBEV 610 FS	100	1	48.100	7005 32 6
RGBEV 615 FS	150	1	61.500	7005 33 4
RGBEV 620 FS	200	1	63.600	7005 34 2
RGBEV 630 FS	300	1	80.400	7005 36 9
RGBEV 640 FS	400	1	114.000	7005 38 5
RGBEV 650 FS	500	1	134.000	7005 40 7
RGBEV 660 FS	600	1	154.800	7005 42 3
RGBEV 610 FT	100	1	52.400	7075 10 3
RGBEV 615 FT	150	1	61.800	7075 15 4
RGBEV 620 FT	200	1	69.300	7075 20 0
RGBEV 630 FT	300	1	87.600	7075 30 8
RGBEV 640 FT	400	1	123.000	7075 40 5
RGBEV 650 FT	500	1	144.000	7075 50 2
RGBEV 660 FT	600	1	166.400	7075 59 6

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

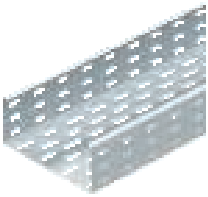
Adjustable vertical bend element, for all cable tray types with a side height of 60 mm.

No additional connectors or joint plates required. Fastening materials should be ordered separately.





Cable tray MKS

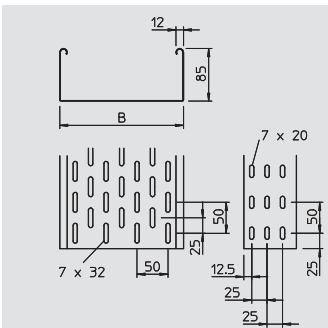
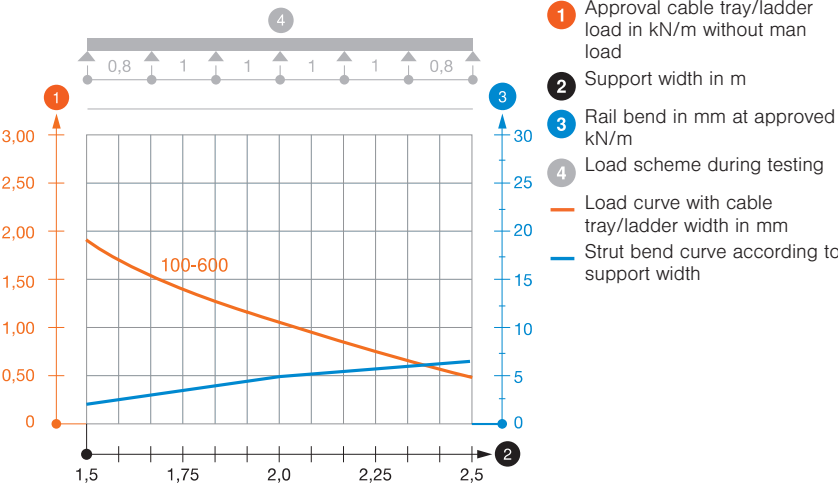


Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm ²	Appr. load:				Weight kg/100 m	Item No.
					1.5 m kN/m	1.75 m kN/m	2.0 m kN/m	2.5 m kN/m		
MKS 810 FS	100	1	3,000	83	1.75	1.4	1.1	0.5	207.900	6057 10 1
MKS 820 FS	200	1	3,000	186	1.75	1.4	1.1	0.5	273.300	6057 20 9
MKS 830 FS	300	1	3,000	253	1.75	1.4	1.1	0.5	338.700	6057 30 6
MKS 840 FS	400	1	3,000	338	1.75	1.4	1.1	0.5	403.300	6057 40 3
MKS 850 FS	500	1	3,000	423	1.75	1.4	1.1	0.5	469.700	6057 50 0
MKS 860 FS	600	1	3,000	508	1.75	1.4	1.1	0.5	536.700	6057 53 5

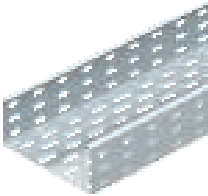
ST Steel **FS** Strip-galvanised /m

MKS 85 = medium-duty cable tray system with a side height of 85 mm.
Magnetic shield insulation without cover 20 dB, with cover 50 dB.
Including connector, type RLVL 85.

Load diagram, cable tray, type MKS 85



Cable tray SKS

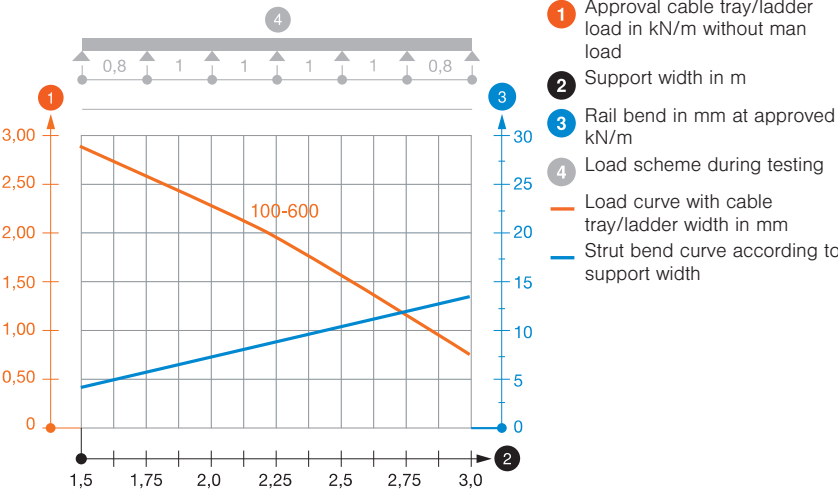


Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm ²	Appr. load:				Weight kg/100 m	Item No.
					1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m		
SKS 810 FS	100	1.5	3,000	83	2.8	2.25	1.5	0.75	311.800	6058 10 8
SKS 820 FS	200	1.5	3,000	186	2.8	2.25	1.5	0.75	410.000	6058 20 5
SKS 830 FS	300	1.5	3,000	253	2.8	2.25	1.5	0.75	508.100	6058 30 2
SKS 840 FS	400	1.5	3,000	338	2.8	2.25	1.5	0.75	605.300	6058 39 6
SKS 850 FS	500	1.5	3,000	423	2.8	2.25	1.5	0.75	704.700	6058 50 7
SKS 860 FS	600	1.5	3,000	508	2.8	2.25	1.5	0.75	802.700	6058 60 4
SKS 810 FT	100	1.5	3,000	83	2.8	2.25	1.5	0.75	330.500	6058 62 0
SKS 820 FT	200	1.5	3,000	186	2.8	2.25	1.5	0.75	434.600	6058 64 7
SKS 830 FT	300	1.5	3,000	253	2.8	2.25	1.5	0.75	538.500	6058 66 3
SKS 840 FT	400	1.5	3,000	338	2.8	2.25	1.5	0.75	641.600	6058 69 8
SKS 850 FT	500	1.5	3,000	423	2.8	2.25	1.5	0.75	746.800	6058 72 8
SKS 860 FT	600	1.5	3,000	508	2.8	2.25	1.5	0.75	850.800	6058 74 4

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /m

SKS 85 = heavy-duty cable tray system with 85 mm side height.
Magnetic shield insulation without cover 20 dB, with cover 50 dB.
FS version includes connector, type RLVL 85.

Load diagram, cable tray, type SKS 85



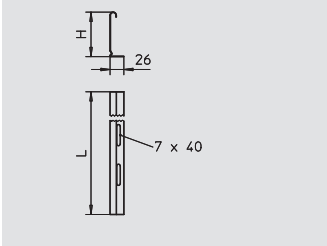
Side height 85



Barrier strip

Type	Dimension H mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 85 FS	85	3,000	45	0.000	6062 11 4
TSG 85 DD	85	3,000	45	0.000	6062 33 1
ST Steel FS Strip-galvanised DD Zinc-aluminium coated, double-dip /m					

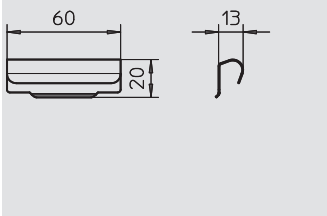
Barrier strip for separation of cables of different voltages or functions.



Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1.000	6067 97 0
V2A Stainless steel, 1.4310 /pc.			

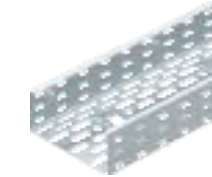
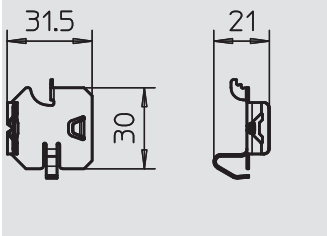
Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.



Clamping piece for barrier strip fastening

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KR VA4310	30	0.580	6062 28 0
V2A Stainless steel, 1.4310 /100 pc.			

Clamping piece for screwless fastening of barrier strips in the cable tray types RKSM, MKS and SKS.

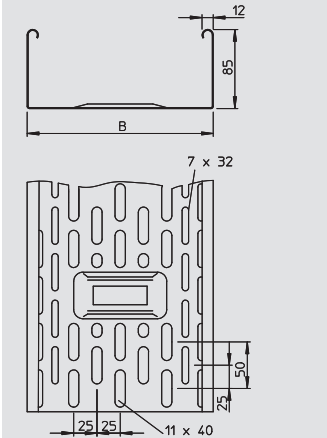
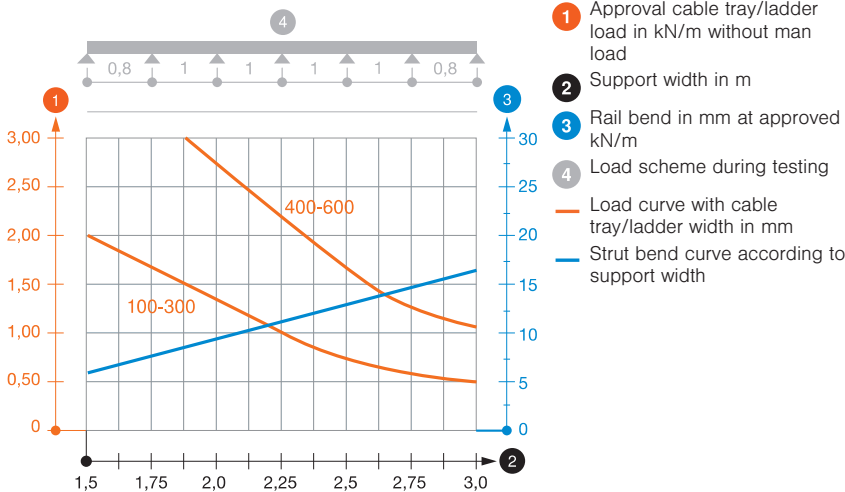


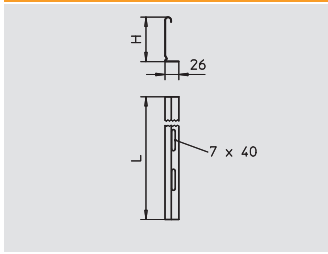
Cable tray DKS

Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm²	Appr. load:				Weight kg/100 m	Item No.
					1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m		
DKS 810 FT	100	1	3,000	83	2.0	1.1	0.65	0.5	210.000	6086 47 0
DKS 820 FT	200	1	3,000	186	2.0	1.1	0.65	0.5	272.000	6086 49 7
DKS 830 FT	300	1	3,000	253	2.0	1.1	0.65	0.5	327.000	6086 51 9
DKS 840 FT	400	1.5	3,000	338	3.0	2.75	1.5	1.1	579.000	6086 65 9
DKS 850 FT	500	1.5	3,000	423	3.0	2.75	1.5	1.1	662.000	6086 67 5
DKS 860 FT	600	1.5	3,000	508	3.0	2.75	1.5	1.1	734.000	6086 69 1
ST Steel FT Hot-dip galvanised /m										

DKS 85 = perforated cable tray system with 85 mm side height.
 Magnetic shield insulation without cover 20 dB, with cover 50 dB.
 Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.
 Bottom penetration from width 200 mm.
 Connecting parts should be ordered in the appropriate quantity.

Load diagram, cable tray, type DKS 85



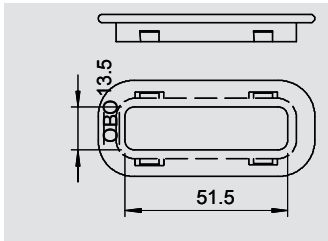


Barrier strip

Type	Dimension H mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 60 FS	60	3,000	45	0.000	6062 06 8
TSG 60 DD	60	3,000	45	0.000	6062 32 7

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /m

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

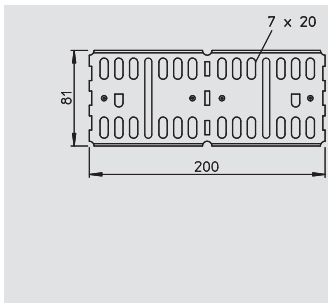


Cable protection ring

Type	Colour	For perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-910 PE	Light grey	20 x 58	25	0.450	6066 71 2

PE Polyethylene /pc.

Cable protection ring for bottom penetrations in cable trays of type DKS, IKS and for side penetrations in AZ channels and luminaire support trays.



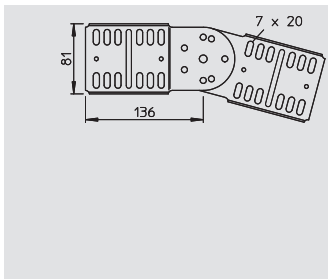
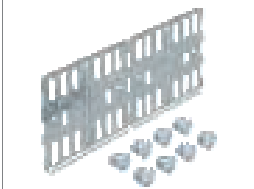
Straight and angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RLVL 85 FS	85	10	26.500	6067 12 3
RLVL 85 FT	85	10	23.500	6067 81 6

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Straight and angle connector for cable trays, fittings and barrier strips with a side height of 85 mm.

Including appropriate fastening material.



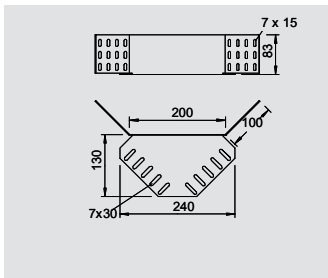
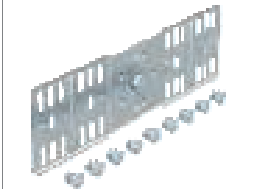
Articulated connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGV 85 FS	85	10	34.000	7082 02 9
RGV 85 FT	85	10	34.000	7082 32 0

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Adjustable connector for cable trays and barrier strips with a side height of 85 mm.

Including appropriate fastening material.



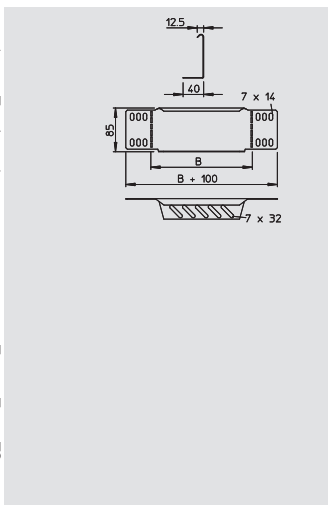
Corner connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
REV 85 FS	85	10	61.000	6067 98 0
REV 85 DD	85	10	61.000	6069 32 0

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /pc.

Corner connector for cable trays with side height 85 mm.

Fastening materials should be ordered separately.



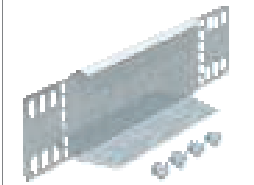
Reducer bracket and end closure

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWEB 810 FS	100	1	12.500	7110 10 3
RWEB 820 FS	200	1	23.400	7110 20 0
RWEB 830 FS	300	1	33.300	7110 30 8
RWEB 840 FS	400	1	43.200	7110 40 5
RWEB 850 FS	500	1	53.200	7110 50 2
RWEB 860 FS	600	1	63.000	7110 61 8
RWEB 810 DD	100	1	12.600	7107 31 5
RWEB 820 DD	200	1	23.300	7107 33 1
RWEB 830 DD	300	1	33.300	7107 36 6
RWEB 840 DD	400	1	43.200	7107 38 2
RWEB 850 DD	500	1	53.100	7107 40 4
RWEB 860 DD	600	1	63.100	7107 42 0

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /pc.

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

Including appropriate fastening material.



Side height 85



45° bend

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RB 45 810 FS	100	1	60.000	7000 47 2
RB 45 820 FS	200	1	85.000	7000 49 9
RB 45 830 FS	300	1	120.000	7000 51 0
RB 45 810 FT	100	1	65.000	7067 11 9
RB 45 820 FT	200	1	90.000	7067 21 6
RB 45 830 FT	300	1	130.000	7067 31 3

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

45° bend, horizontal, for all cable tray types of 85 mm side height.

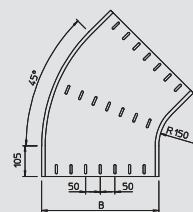
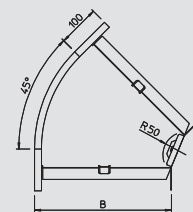
The fitting is shipped in an unmounted state. The WKV 85 angle connector is designed for 90° bends and can be adjusted to 45° on site. Including appropriate fastening material.

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RB 45 840 FS	400	1	320.000	7000 52 9
RB 45 850 FS	500	1	380.000	7000 54 5
RB 45 860 FS	600	1	490.000	7000 56 1
RB 45 840 FT	400	1	340.000	7067 40 2
RB 45 850 FT	500	1	400.000	7067 49 6
RB 45 860 FT	600	1	520.000	7067 60 7

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

45° bend, horizontal, for all cable tray types of 85 mm side height.

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



90° bend

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RB 90 810 FS	100	1	65.000	7001 76 2
RB 90 820 FS	200	1	150.000	7001 78 9
RB 90 830 FS	300	1	180.000	7001 80 0
RB 90 810 FT	100	1	70.000	7126 12 7
RB 90 820 FT	200	1	160.000	7126 21 6
RB 90 830 FT	300	1	200.000	7126 30 1

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

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

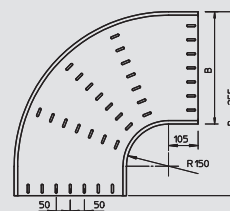
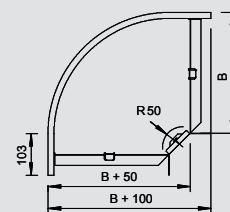
The fitting is shipped in an unmounted state. Including appropriate fastening material.

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RB 90 840 FS	400	1	500.000	7001 81 9
RB 90 850 FS	500	1	650.000	7001 83 5
RB 90 860 FS	600	1	820.000	7001 85 1
RB 90 840 FT	400	1	540.000	7126 41 7
RB 90 850 FT	500	1	690.000	7126 51 4
RB 90 860 FT	600	1	870.000	7126 61 1

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

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

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



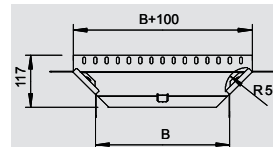
Add-on tee

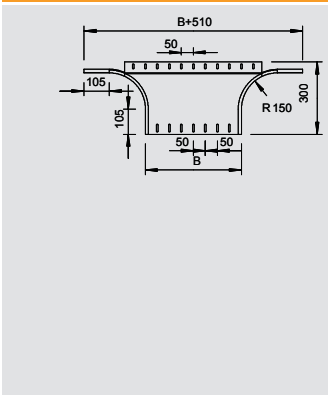
Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RAA 810 FS	100	1	40.000	7002 47 5
RAA 820 FS	200	1	45.000	7002 49 1
RAA 830 FS	300	1	60.000	7002 51 3
RAA 810 FT	100	1	45.000	7122 10 9
RAA 820 FT	200	1	50.000	7122 21 3
RAA 830 FT	300	1	65.000	7122 31 0

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

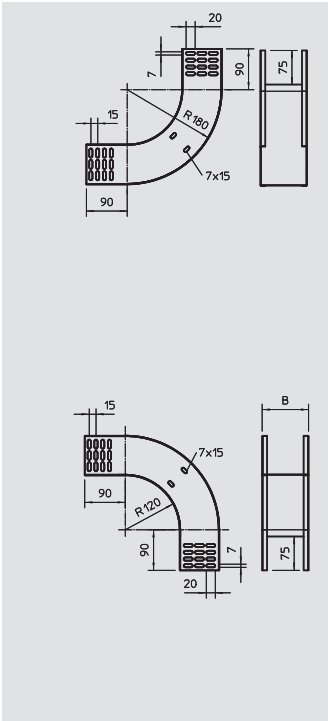
Add-on tee for horizontal and vertical use. For all cable tray types of 85 mm side height.

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





Add-on tee				
Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RAA 840 FS	400	1	230.000	7002 52 1
RAA 850 FS	500	1	265.000	7002 55 6
RAA 860 FS	600	1	295.000	7002 57 2
RAA 840 FT	400	1	250.000	7122 40 3
RAA 850 FT	500	1	290.000	7122 50 0
RAA 860 FT	600	1	320.000	7122 60 8
ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.				
Add-on tee for horizontal and vertical use. For all cable tray types of 85 mm side height.				
Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.				



90° vertical bend

Type	Width	Plate thickness	Pack.	Weight	Item No.
	mm	mm	pcs	kg/100 pcs.	
RBV 810 S FS	100	1	1	97.100	7007 23 0
RBV 820 S FS	200	1	1	132.600	7007 23 4
RBV 830 S FS	300	1	1	156.200	7007 23 8
RBV 840 S FS	400	1	1	179.900	7007 24 2
RBV 850 S FS	500	1	1	203.500	7007 24 6
RBV 860 S FS	600	1	1	227.100	7007 25 0

ST SteelFS Strip-galvanised/pc.

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

The vertical bend is pushed over the end of the cable tray and screwed tight.

Fastening materials should be ordered separately.

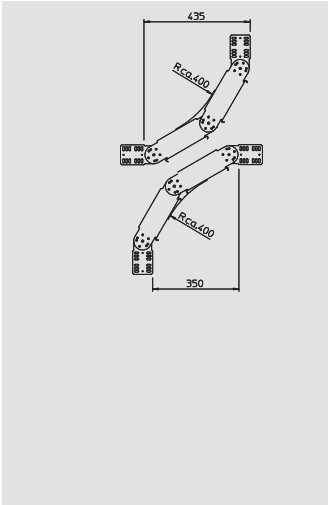
Type	Width	Plate thickness	Pack.	Weight	Item No.
	mm	mm	pcs	kg/100 pcs.	
RBV 810 F FS	100	1	1	86.600	7007 27 0
RBV 820 F FS	200	1	1	104.200	7007 27 4
RBV 830 F FS	300	1	1	121.800	7007 27 8
RBV 840 F FS	400	1	1	139.500	7007 28 2
RBV 850 F FS	500	1	1	157.100	7007 28 6
RBV 860 F FS	600	1	1	174.700	7007 29 0

ST SteelFS Strip-galvanised/pc.

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

The vertical bend is pushed over the end of the cable tray and screwed tight.

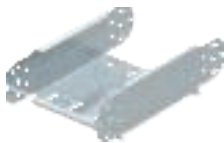
Fastening materials should be ordered separately.



90° adjustable vertical bend				
Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RGBV 810 FS	100	1	226.000	7006 46 2
RGBV 820 FS	200	1	273.000	7006 48 9
RGBV 830 FS	300	1	320.000	7006 50 0
RGBV 840 FS	400	1	366.000	7006 52 7
RGBV 850 FS	500	1	449.000	7006 54 3
RGBV 860 FS	600	1	503.000	7006 57 8
RGBV 810 FT	100	1	260.000	7080 10 7
RGBV 820 FT	200	1	325.000	7080 20 4
RGBV 830 FT	300	1	380.000	7080 30 1
RGBV 840 FT	400	1	434.700	7080 40 9
RGBV 850 FT	500	1	488.200	7080 50 6
RGBV 860 FT	600	1	549.700	7080 60 3
ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.				
90° adjustable vertical bend, for all cable tray types with a side height of 85 mm.				
The bend is shipped in an unmounted state. No additional fastening materials are required.				



Side height 85

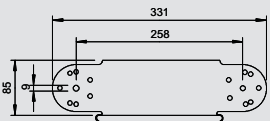


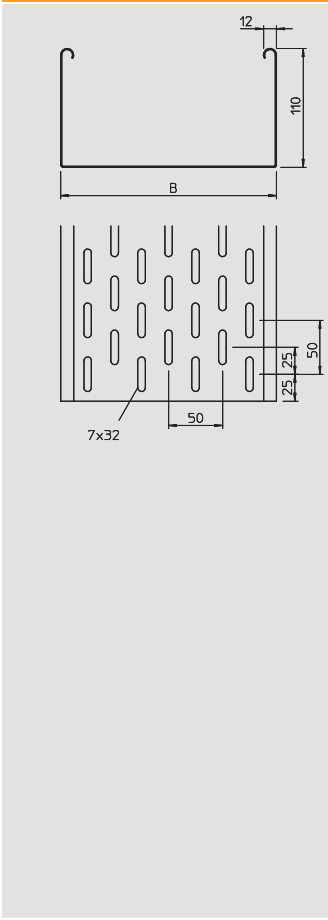
Adjustable vertical bend element

Type	Width mm	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
RGBEV 810 FS	100	1	70.000	7005 46 6
RGBEV 820 FS	200	1	91.900	7005 48 2
RGBEV 830 FS	300	1	112.400	7005 50 4
RGBEV 840 FS	400	1	132.700	7005 52 0
RGBEV 850 FS	500	1	153.100	7005 54 7
RGBEV 860 FS	600	1	173.400	7005 56 3
RGBEV 810 FT	100	1	70.100	7076 09 6
RGBEV 820 FT	200	1	98.500	7076 20 7
RGBEV 830 FT	300	1	120.500	7076 30 4
RGBEV 840 FT	400	1	142.300	7076 40 1
RGBEV 850 FT	500	1	164.100	7076 50 9
RGBEV 860 FT	600	1	185.900	7076 60 6

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Adjustable vertical bend element, for all cable tray types with a side height of 85 mm.
No additional connectors or joint plates required. Fastening materials should be ordered separately.





Cable tray MKS



Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm ²	Appr. load:				Weight kg/100 m	Item No.
					1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m		
MKS 110 FS	100	1	3,000	108	1.85	1.3	0.75	0.6	243.100	6060 10 2
MKS 120 FS	200	1	3,000	218	1.85	1.3	0.75	0.6	308.500	6060 19 6
MKS 130 FS	300	1	3,000	328	1.85	1.3	0.75	0.6	373.900	6060 30 7
MKS 140 FS	400	1	3,000	438	1.85	1.3	0.75	0.6	438.700	6060 40 4
MKS 150 FS	500	1	3,000	548	1.85	1.3	0.75	0.6	503.700	6060 41 2
MKS 155 FS	550	1	3,000	603	1.85	1.3	0.75	0.6	536.700	6060 52 8

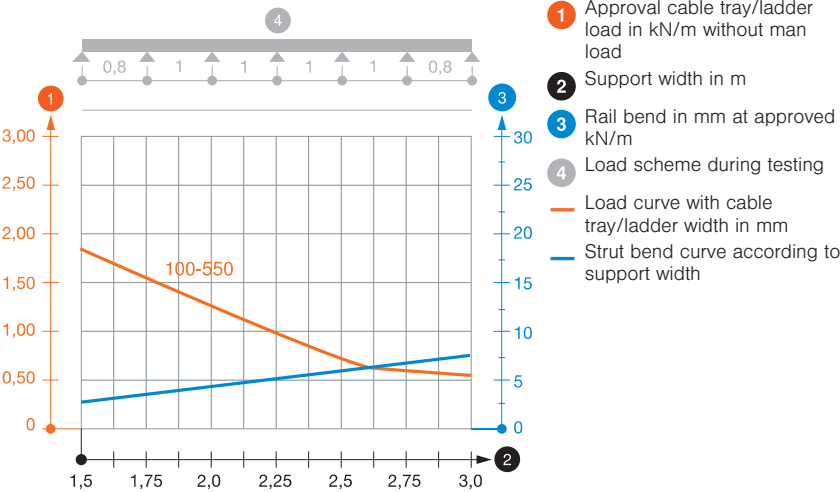
ST Steel FS Strip-galvanised /m

MKS 110 = medium-duty cable tray system with a side height of 110 mm.

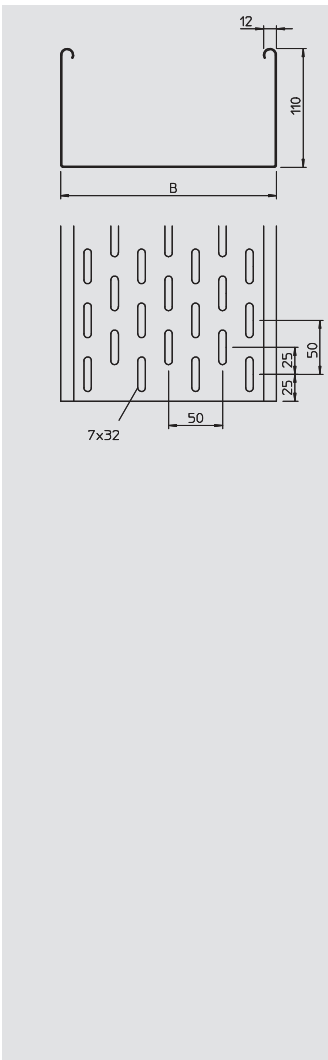
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Including connector, type RLVL 110.

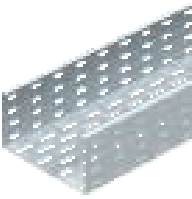
Load diagram, cable tray, type MKS 110



- 1 Approval cable tray/ladder load in kN/m without man load
 - 2 Support width in m
 - 3 Rail bend in mm at approved 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



Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm ²	Appr. load:				Weight kg/100 m	Item No.
					1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m		
SKS 110 FS	100	1.5	3,000	108	3.0	2.4	1.2	0.8	243.000	6061 10 9
SKS 120 FS	200	1.5	3,000	218	3.0	2.4	1.2	0.8	308.200	6061 20 6
SKS 130 FS	300	1.5	3,000	328	3.0	2.4	1.2	0.8	373.300	6061 30 3
SKS 140 FS	400	1.5	3,000	438	3.0	2.4	1.2	0.8	438.700	6061 40 0
SKS 150 FS	500	1.5	3,000	548	3.0	2.4	1.2	0.8	503.700	6061 50 8
SKS 155 FS	550	1.5	3,000	603	3.0	2.4	1.2	0.8	804.700	6061 55 9
SKS 110 FT	100	1.5	3,000	108	3.0	2.4	1.2	0.8	383.200	6061 60 5
SKS 120 FT	200	1.5	3,000	218	3.0	2.4	1.2	0.8	490.000	6061 62 1
SKS 130 FT	300	1.5	3,000	328	3.0	2.4	1.2	0.8	570.000	6061 65 6
SKS 140 FT	400	1.5	3,000	438	3.0	2.4	1.2	0.8	697.400	6061 67 2
SKS 150 FT	500	1.5	3,000	548	3.0	2.4	1.2	0.8	725.100	6061 70 2
SKS 155 FT	550	1.5	3,000	603	3.0	2.4	1.2	0.8	852.900	6061 72 9

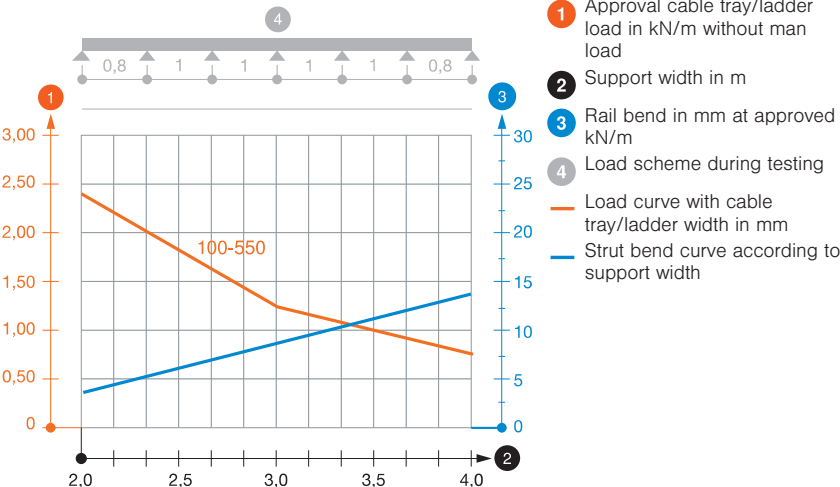
ST Steel FS Strip-galvanised FT Hot-dip galvanised /m

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

Magnetic shield insulation without cover 20 dB, with cover 50 dB.

FS version includes connector, type RLVL 110.

Load diagram, cable tray, type SKS 110



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

Side height 110



Cable tray SKSU

Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm²	Appr. load:				Weight kg/100 m	Item No.
					1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m		
SKSU 110 FS	100	1.5	3,000	108	3.0	2.4	1.2	0.8	406.200	6063 40 3
SKSU 120 FS	200	1.5	3,000	218	3.0	2.4	1.2	0.8	524.000	6063 43 8
SKSU 130 FS	300	1.5	3,000	328	3.0	2.4	1.2	0.8	637.000	6063 45 4
SKSU 140 FS	400	1.5	3,000	438	3.0	2.4	1.2	0.8	759.500	6063 47 0
SKSU 150 FS	500	1.5	3,000	548	3.0	2.4	1.2	0.8	872.000	6063 49 7
SKSU 155 FS	550	1.5	3,000	603	3.0	2.4	1.2	0.8	932.000	6063 50 0
SKSU 110 FT	100	1.5	3,000	108	3.0	2.4	1.2	0.8	420.000	6064 79 5
SKSU 120 FT	200	1.5	3,000	218	3.0	2.4	1.2	0.8	551.000	6064 83 3
SKSU 130 FT	300	1.5	3,000	328	3.0	2.4	1.2	0.8	694.000	6064 88 4
SKSU 140 FT	400	1.5	3,000	438	3.0	2.4	1.2	0.8	823.000	6064 92 2
SKSU 150 FT	500	1.5	3,000	548	3.0	2.4	1.2	0.8	925.000	6064 96 5
SKSU 155 FT	550	1.5	3,000	605	3.0	2.4	1.2	0.8	988.000	6064 97 3

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /m

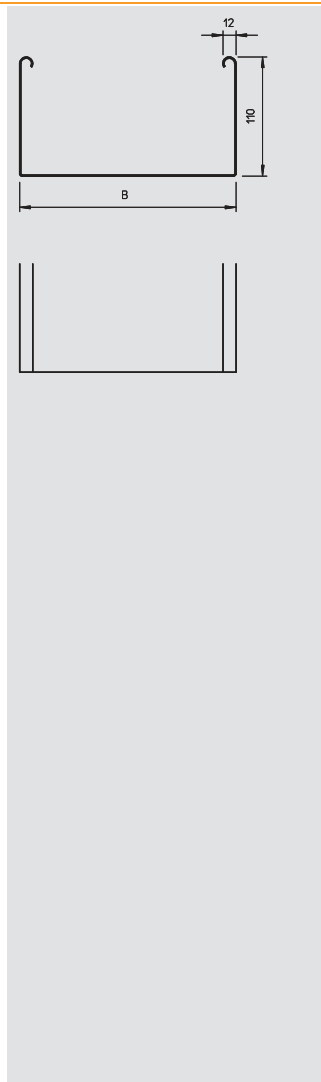
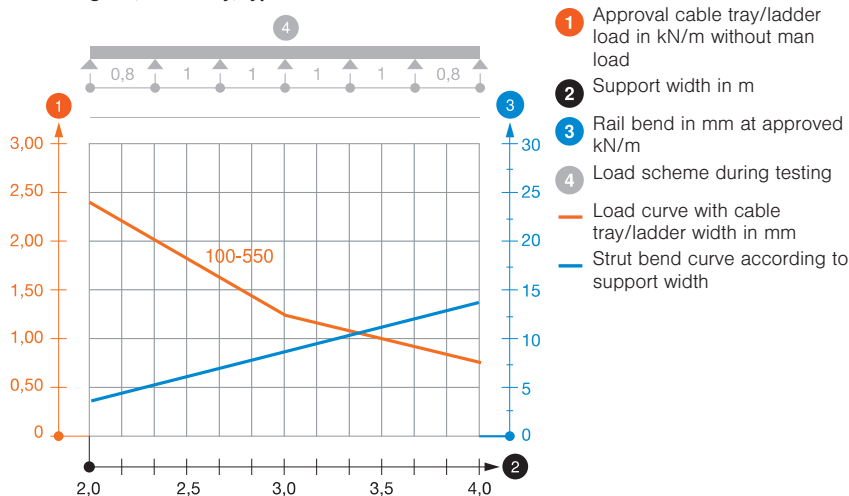
SKS 110 = heavy-duty cable tray system, unperforated, with 110 mm side height.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.

The cable tray has connector perforations on both sides.

Straight connectors should be ordered separately and in the appropriate quantity.

Load diagram, cable tray, type SKSU 110

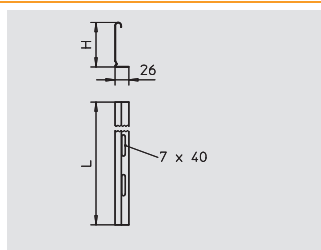


Barrier strip

Type	Dimen- sion H mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
TSG 110 FS	110	3,000	30	0.000	6062 12 2
TSG 110 DD	110	3,000	30	0.000	6062 33 5

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /m

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

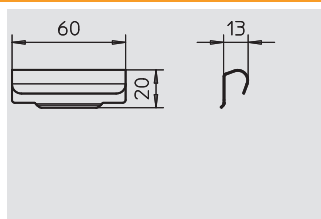


Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1.000	6067 97 0

V2A Stainless steel, 1.4310 /pc.

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

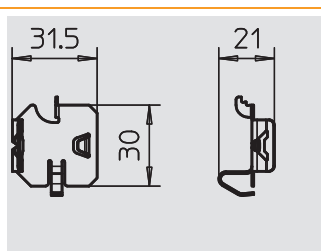


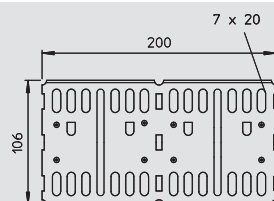
Clamping piece for barrier strip fastening

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KR VA4310	30	0.580	6062 28 0

V2A Stainless steel, 1.4310 /100 pc.

Clamping piece for screwless fastening of barrier strips in the cable tray types RKSM, MKS and SKS.





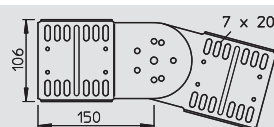
Straight and angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RLVL 110 FS	110	10	29.500	6067 13 1
RLVL 110 FT	110	10	29.500	6067 91 3

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

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

Including appropriate fastening material.



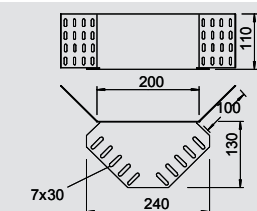
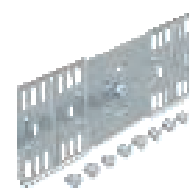
Articulated connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGV 110 FS	110	10	64.000	7082 03 7
RGV 110 FT	110	10	64.000	7082 43 6

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

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

Including appropriate fastening material.



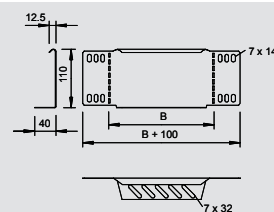
Corner connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
REV 110 FS	110	10	72.000	6067 99 9
REV 110 DD	110	10	72.000	6069 33 9

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /pc.

Corner connector for cable trays with side height 110 mm.

Fastening materials should be ordered separately.



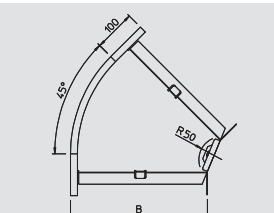
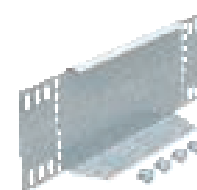
Reducer bracket and end closure

Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWEB 110 FS	110	100	1	16.400	7111 09 6
RWEB 120 FS	110	200	1	29.000	7111 20 7
RWEB 130 FS	110	300	1	41.000	7111 30 4
RWEB 140 FS	110	400	1	52.900	7111 42 8
RWEB 150 FS	110	500	1	64.800	7111 50 9
RWEB 155 FS	110	550	1	70.700	7111 54 1
RWEB 110 DD	110	100	1	16.300	7107 45 5
RWEB 120 DD	110	200	1	29.100	7107 47 1
RWEB 130 DD	110	300	1	41.000	7107 50 1
RWEB 140 DD	110	400	1	52.800	7107 53 6
RWEB 150 DD	110	500	1	64.700	7107 55 2
RWEB 155 DD	110	550	1	70.700	7107 56 0

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /pc.

Reducer / stop-end for cable trays with side height 110 mm.

Including appropriate fastening material.



45° bend

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 45 110 FS	100	1	70.000	7000 63 4
RB 45 120 FS	200	1	100.000	7000 65 0
RB 45 130 FS	300	1	135.000	7000 67 7
RB 45 110 FT	100	1	150.000	7068 11 5
RB 45 120 FT	200	1	110.000	7068 21 2
RB 45 130 FT	300	1	145.000	7068 32 8

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

45° bend, horizontal, for all cable tray types of 110 mm side height.

The fitting is shipped in an unmounted state. The WKV 110 angle connector is designed for 90° bends and can be adjusted to 45° on site.

Including appropriate fastening material.



Side height 110



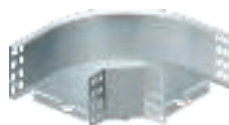
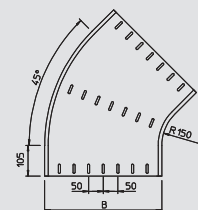
45° bend

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RB 45 140 FS	400	1	340.000	7000 68 5
RB 45 150 FS	500	1	400.000	7000 70 7
RB 45 155 FS	550	1	450.000	7000 71 5
RB 45 140 FT	400	1	365.000	7068 40 9
RB 45 150 FT	500	1	425.000	7068 50 6
RB 45 155 FT	550	1	480.000	7068 55 7

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

45° bend, horizontal, for all cable tray types of 110 mm side height.

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



90° bend

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RB 90 110 FS	100	1	80.000	7001 89 4
RB 90 120 FS	200	1	140.000	7001 91 6
RB 90 130 FS	300	1	210.000	7001 93 2
RB 90 110 FT	100	1	85.000	7127 10 3
RB 90 120 FT	200	1	150.000	7127 22 7
RB 90 130 FT	300	1	230.000	7127 32 0

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

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

The fitting is shipped in an unmounted state.

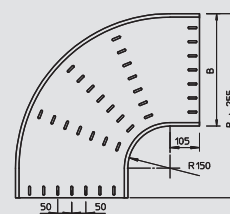
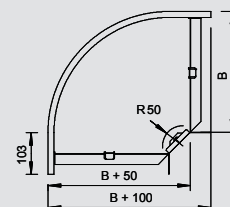
Including appropriate fastening material.

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RB 90 140 FS	400	1	540.000	7001 94 0
RB 90 150 FS	500	1	700.000	7001 96 7
RB 90 155 FS	550	1	780.000	7001 97 5
RB 90 140 FT	400	1	575.000	7127 41 3
RB 90 150 FT	500	1	750.000	7127 49 9
RB 90 155 FT	550	1	840.000	7127 54 5

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

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

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



Add-on tee

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RAA 110 FS	100	1	45.000	7002 63 7
RAA 120 FS	200	1	55.000	7002 65 3
RAA 130 FS	300	1	70.000	7002 68 8
RAA 110 FT	100	1	50.000	7123 11 6
RAA 120 FT	200	1	60.000	7123 21 3
RAA 130 FT	300	1	75.000	7123 31 0

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Add-on tee for horizontal and vertical use. For all cable tray types of 110 mm side height.

The fitting is shipped in an unmounted state.

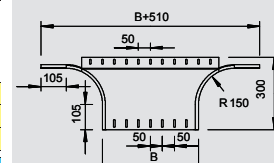
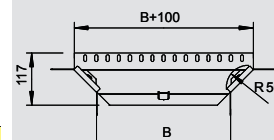
Including appropriate fastening material.

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RAA 140 FS	400	1	250.000	7002 69 6
RAA 150 FS	500	1	285.000	7002 72 6
RAA 155 FS	550	1	300.000	7002 73 4
RAA 140 FT	400	1	270.000	7123 39 6
RAA 150 FT	500	1	310.000	7123 50 7
RAA 155 FT	550	1	325.000	7123 55 8

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Add-on tee for horizontal and vertical use. For all cable tray types of 110 mm side height.

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





Horizontal tee



Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RT 110 FS	100	1	105.000	7003 63 3
RT 120 FS	200	1	160.000	7003 66 8
RT 130 FS	300	1	235.000	7003 68 4
RT 110 FT	100	1	110.000	7119 11 9
RT 120 FT	200	1	180.000	7119 21 6
RT 130 FT	300	1	250.000	7119 31 3

ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.

Horizontal tee, for all cable tray types of 110 mm side height.

The fitting is shipped in an unmounted state. All the sides are designed for the same cable tray width.

Including appropriate fastening material.

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RT 140 FS	400	1	770.000	7003 69 2
RT 150 FS	500	1	950.000	7003 71 4
RT 155 FS	550	1	1,020.000	7003 72 2
RT 140 FT	400	1	825.000	7119 40 2
RT 150 FT	500	1	1,020.000	7119 49 6
RT 155 FT	550	1	1,100.000	7119 55 0

ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.

Horizontal tee, for all cable tray types of 110 mm side height.

Fitting in round design. The interior radius of the fitting is 150 mm. All the sides are designed for the same cable tray width.

Fastening materials should be ordered separately.



Cable tray systems



Horizontal cross-over



Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RK 110 FS	100	1	110.000	7004 64 8
RK 120 FS	200	1	160.000	7004 66 4
RK 130 FS	300	1	220.000	7004 68 0
RK 110 FT	100	1	120.000	7115 11 3
RK 120 FT	200	1	175.000	7115 21 0
RK 130 FT	300	1	240.000	7115 31 8

ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.

Horizontal cross-over for all cable tray types of 110 mm side height.

The fitting is shipped in an unmounted state. All the sides are designed for the same cable tray width.

Including appropriate fastening material.

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RK 140 FS	400	1	900.000	7004 69 9
RK 150 FS	500	1	1,100.000	7004 71 0
RK 155 FS	550	1	1,250.000	7004 72 9
RK 140 FT	400	1	960.000	7115 40 7
RK 150 FT	500	1	1,180.000	7115 50 4
RK 155 FT	550	1	1,340.000	7115 55 5

ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.

Horizontal cross-over for all cable tray types of 110 mm side height.

Fitting in round design. The interior radius of the fitting is 150 mm. All the sides are designed for the same cable tray width.

Fastening materials should be ordered separately.



90° vertical bend



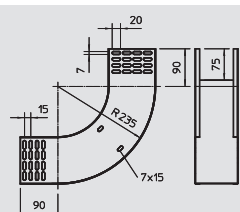
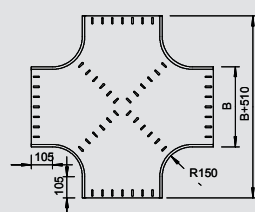
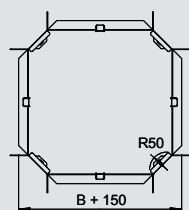
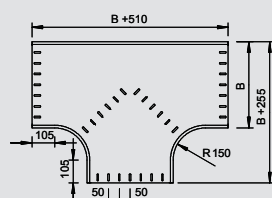
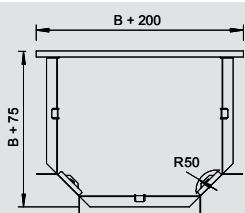
Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RBV 110 S FS	100	1	1	120.100	7007 31 0
RBV 120 S FS	200	1	1	151.300	7007 31 4
RBV 130 S FS	300	1	1	182.400	7007 31 8
RBV 140 S FS	400	1	1	213.600	7007 32 2
RBV 150 S FS	500	1	1	244.800	7007 32 6
RBV 155 S FS	600	1	1	260.400	7007 33 0

ST Steel FS Strip-galvanised /pc.

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

The vertical bend is pushed over the end of the cable tray and screwed tight.

Fastening materials should be ordered separately.





90° vertical bend

Type	Width	Plate thickness	Pack.	Weight	Item No.
	mm	mm	pcs	kg/100 pcs.	
RBV 110 F FS	100	1	1	106.300	7007 35 0
RBV 120 F FS	200	1	1	124.000	7007 35 4
RBV 130 F FS	300	1	1	141.600	7007 35 8
RBV 140 F FS	400	1	1	159.200	7007 36 2
RBV 150 F FS	500	1	1	176.900	7007 36 6
RBV 155 F FS	600	1	1	185.700	7007 37 0

ST Steel

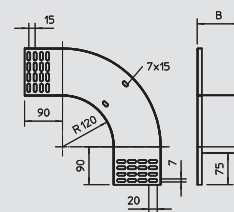
FS Strip-galvanised

/DC.

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

The vertical bend is pushed over the end of the cable tray and screwed tight.

Fastening materials should be ordered separately.



90° adjustable vertical bend

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RGBV 110 FS	100	1	304.800	7006 62 4
RGBV 120 FS	200	1	351.000	7006 64 0
RGBV 140 FS	400	1	444.000	7006 68 3
RGBV 150 FS	500	1	527.500	7006 70 5
RGBV 110 FT	100	1	363.000	7081 10 3
RGBV 120 FT	200	1	420.000	7081 20 0
RGBV 130 FT	300	1	578.300	7081 30 8
RGBV 140 FT	400	1	530.000	7081 40 5
RGBV 150 FT	500	1	580.000	7081 50 2
RGBV 155 FT	550	1	554.600	7081 55 3

ST Steel

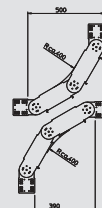
FS Strip-galvanised FT Hot-dip galvanised

FT

/pc.

90° adjustable vertical bend, for all cable tray types with a side height of 110 mm.

The bend is shipped in an unmounted state. No additional fastening materials are required.



Adjustable vertical bend element

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RGBEV 110 FS	100	1	101.100	7005 62 8
RGBEV 120 FS	200	1	119.600	7005 64 4
RGBEV 130 FS	300	1	137.200	7005 66 0
RGBEV 140 FS	400	1	156.700	7005 68 7
RGBEV 150 FS	500	1	193.600	7005 70 9
RGBEV 155 FS	550	1	204.900	7005 71 7
RGBEV 110 FT	100	1	101.100	7077 10 6
RGBEV 120 FT	200	1	119.600	7077 20 3
RGBEV 130 FT	300	1	147.100	7077 30 0
RGBEV 140 FT	400	1	156.700	7077 40 8
RGBEV 150 FT	500	1	193.600	7077 50 5
RGBEV 155 FT	550	1	204.900	7077 55 5

ST Steel

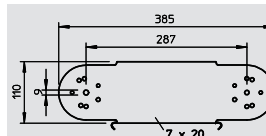
FS Strip-galvanised FT Hot-dip galvanised

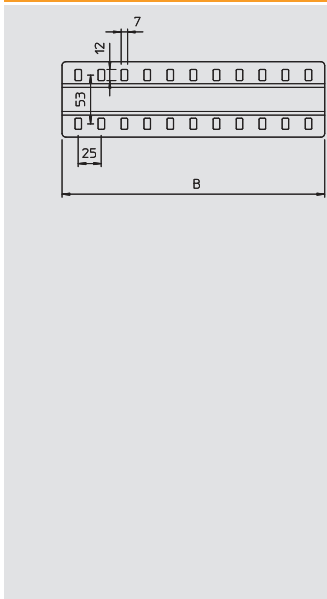
FT

/pc.

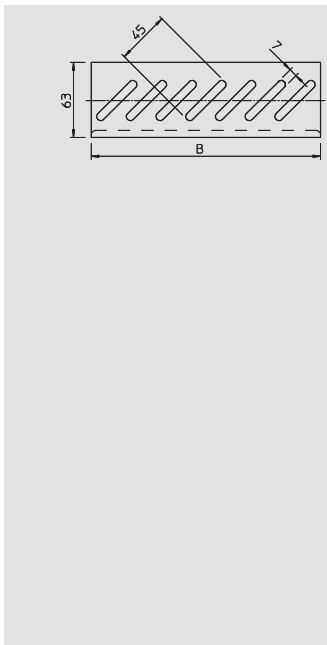
Adjustable vertical bend element, for all cable tray types with a side height of 110 mm.

No additional connectors or joint plates required. Fastening materials should be ordered separately.

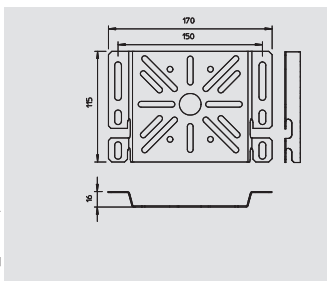




					Joint plate	
Type	Width	Quantity of bolts	Pack.	Weight	Item No.	
	mm	pc.	pcs	kg/100 pcs.		
SSLB 100 FS	85	2	20	7.700	7070 20 5	
SSLB 150 FS	135	2	20	12.200	7070 20 9	
SSLB 200 FS	185	2	20	16.700	7070 21 3	
SSLB 300 FS	285	3	20	25.700	7070 21 7	
SSLB 400 FS	385	4	20	34.700	7070 22 1	
SSLB 500 FS	485	5	20	43.700	7070 22 5	
SSLB 550 FS	535	5	20	48.200	7070 22 9	
SSLB 600 FS	585	6	20	52.700	7070 23 3	
SSLB 100 DD	85	2	20	7.700	7070 30 6	
SSLB 150 DD	135	2	20	12.200	7070 31 0	
SSLB 200 DD	185	2	20	16.700	7070 31 4	
SSLB 300 DD	285	3	20	25.700	7070 31 8	
SSLB 400 DD	385	4	20	34.700	7070 32 2	
SSLB 500 DD	485	5	20	43.700	7070 32 6	
SSLB 550 DD	535	5	20	48.200	7070 33 0	
SSLB 600 DD	585	6	20	52.700	7070 33 4	
ST Steel	FS Strip-galvanised	DD Zinc-aluminium coated, double-dip	/pc.			
Wide joint plate for use in all cable trays and wide span cable trays.						
Including appropriate fastening material.						



Floor end plate				
Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
BEB 050 FS	50	100	2.500	7083 04 1
BEB 100 FS	100	100	5.400	7083 10 6
BEB 150 FS	150	100	8.400	7083 15 7
BEB 200 FS	200	100	11.400	7083 20 3
BEB 300 FS	300	100	17.200	7083 30 0
BEB 400 FS	400	100	23.100	7083 40 8
BEB 500 FS	500	50	29.000	7083 50 5
BEB 550 FS	550	50	32.000	7083 55 6
BEB 600 FS	600	50	35.000	7083 60 2
BEB 050 DD	50	100	2.500	7083 61 6
BEB 100 DD	100	100	5.400	7083 61 8
BEB 150 DD	150	100	8.400	7083 62 2
BEB 200 DD	200	100	11.400	7083 62 6
BEB 300 DD	300	100	17.200	7083 63 0
BEB 400 DD	400	100	23.100	7083 63 4
BEB 500 DD	500	50	29.000	7083 63 8
BEB 550 DD	550	50	32.000	7083 64 0
BEB 600 DD	600	50	35.000	7083 64 2
ST Steel	FS Strip-galvanised	DD Zinc-aluminium coated, double-dip	/pc.	
Floor end plate for floor reinforcement at the ends of the cable tray and as cable protection.				
For fastening, please order bolts, type FRSB M6 x 12, separately.				

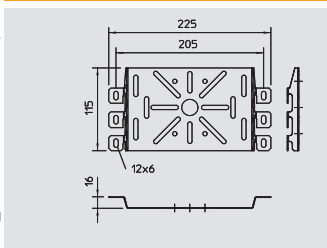


					Mounting plate		
Type	Height	Width	Pack.	Weight	Item No.		
	mm	mm	pcs	kg/100 pcs.			
MP UNI FS	115	170	40	13.300	7084 77 3		
MP UNI DD	115	170	40	13.300	7085 11 4		

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /pc.

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

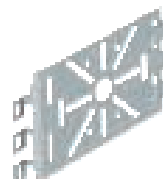
Please order the truss-head bolt, type FRSB 6 x 12, separately.



					Mounting plate		
Type	Height	Width	Pack.	Weight	Item No.		
	mm	mm	pcs	kg/100 pcs.			
MP 225 UNI FS	115	225	20	20.000	7084 87 0		
ST Steel	FS Strip-galvanised		/pc.				

Mounting plate for universal use on side rails of cable trays and mesh cable trays.

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



System accessories 35, 60, 85, 110

Mounting plate



Type	Height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MP FL FS	235	120	40	19.200	7084 75 7
MP FL DD	235	120	40	19.200	7085 10 8

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /pc.

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

Please order the truss-head bolt, type FRS B6 x 12, separately.



Mounting plate

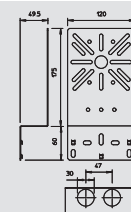


Type	Height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MP WI KL. FS	210	120	20	20.200	7084 76 5
MP WI KL. DD	210	120	20	20.200	7085 11 1

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /pc.

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

Please order the truss-head bolt, type FRS B6 x 12, separately.



Mounting plate

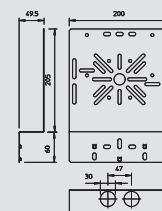


Type	Height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MP WI GR. FS	240	200	25	40.000	7084 78 1
MP WI GR. DD	240	200	25	40.000	7085 11 2

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /pc.

Curved mounting plate, for fixing on the side rail of the cable tray.

Please order the truss-head bolt, type FRS B6 x 12, separately.



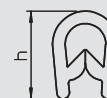
Edge protection strip



Type	For plate thickness mm	Dimension h mm	Colour	Length mm	Weight kg/100 m	Item No.
KSB 2 PVC	1-2	10	Black	10,000	8.000	6072 90 9
KSB 4 PVC	1-4	15	Black	10,000	14.000	6072 89 5

PVC Polyvinylchloride /100 m

Edge protection strip with steel inlay for covering the cut plate ends.



Cover, unperforated



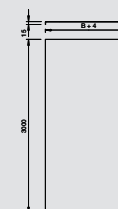
Type	Width mm	Plate thickness mm	Length mm	Weight kg/100 m	Item No.
DRLU 050 FS	50	0.75	3,000	44.700	6052 05 6
DRLU 100 FS	100	0.75	3,000	74.200	6052 10 3
DRLU 150 FS	150	0.75	3,000	138.200	6052 15 3
DRLU 200 FS	200	1	3,000	177.400	6052 21 0
DRLU 300 FS	300	1	3,000	255.900	6052 30 7
DRLU 400 FS	400	1	3,000	334.400	6052 40 5
DRLU 500 FS	500	1.25	3,000	516.100	6052 51 2
DRLU 550 FS	550	1.25	3,000	565.200	6052 57 1
DRLU 600 FS	600	1.25	3,000	614.300	6052 60 9

ST Steel **FS** Strip-galvanised /m

Cover for cable trays and mesh cable trays.

Take appropriate constructive protection measures if there are high wind speeds.

Cross beading from 500 mm width.





Cover, unperforated

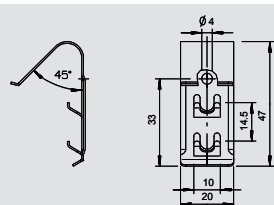
Type	Width mm	Plate thickness mm	Length mm	Weight kg/100 m	Item No.
DRLU 050 DD	50	0.75	3,000	44.700	6052 64 0
DRLU 100 DD	100	0.75	3,000	74.200	6052 64 3
DRLU 150 DD	150	0.75	3,000	138.200	6052 64 7
DRLU 200 DD	200	1	3,000	177.400	6052 65 0
DRLU 300 DD	300	1	3,000	255.900	6052 65 6
DRLU 400 DD	400	1	3,000	334.400	6052 66 2
DRLU 500 DD	500	1.25	3,000	516.200	6052 66 8
DRLU 550 DD	550	1.25	3,000	565.200	6052 67 1
DRLU 600 DD	600	1.25	3,000	614.300	6052 67 4

ST Steel **DD** Zinc-aluminium coated, double-dip /m

Cover for cable trays and mesh cable trays.

Take appropriate constructive protection measures if there are high wind speeds.

Cross beading from 500 mm width.



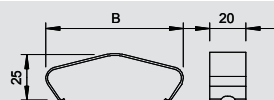
Cover clamp, universal

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DKU 60 VA4310	60	0.650	6065 60 0
DKU 120 VA4310	120	0.650	6065 61 0

V2A Stainless steel, 1.4310 /100 pc.

Cover clamp for universal fastening of covers on cable trays, mesh cable trays and AZ small ducts.

Depending on the tray width, 4–6 cover clamps are required for secure fastening of a 3 m cover.



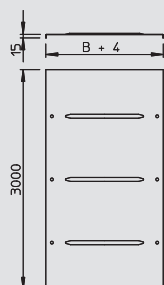
Cover clamp

Type	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DKL 35 VA4310	50.9	50	1.400	6065 50 3
DKL 45 VA4310	60.9	50	1.600	6065 51 1
DKL 60 VA4310	75.9	50	1.800	6065 53 8
DKL 85 VA4310	95.9	20	2.100	6065 54 6
DKL 110 VA4310	120.9	20	2.400	6065 55 4

V2A Stainless steel, 1.4310 /pc.

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

Cover clamp for additional fastening of the cover, e.g. in case of high wind load.



Cover with turn-buckle

Type	Width mm	Plate thickness mm	Length mm	Weight kg/100 m	Item No.
DRL 050 FS	50	0.75	3,000	62.100	6052 05 3
DRL 075 FS	75	0.75	3,000	81.700	6052 02 9
DRL 100 FS	100	0.75	3,000	101.300	6052 09 6
DRL 150 FS	150	1	3,000	140.600	6052 15 0
DRL 200 FS	200	1	3,000	179.800	6052 20 7
DRL 300 FS	300	1	3,000	258.300	6052 30 4
DRL 400 FS	400	1	3,000	336.800	6052 40 1
DRL 500 FS	500	1.25	3,000	518.500	6052 50 9
DRL 550 FS	550	1.25	3,000	567.600	6052 56 8
DRL 600 FS	600	1.25	3,000	616.700	6052 60 6
DRL 050 DD	50	0.75	3,000	45.900	6052 70 0
DRL 100 DD	100	0.75	3,000	76.600	6052 70 3
DRL 150 DD	150	1	3,000	106.000	6052 70 6
DRL 200 DD	200	1	3,000	179.800	6052 70 9
DRL 300 DD	300	1	3,000	258.300	6052 71 2
DRL 400 DD	400	1	3,000	336.800	6052 71 5
DRL 500 DD	500	1.25	3,000	518.400	6052 71 8
DRL 550 DD	550	1.25	3,000	567.600	6052 72 1
DRL 600 DD	600	1.25	3,000	616.700	6052 72 4

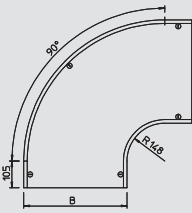
ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /m

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

Take appropriate constructive protection measures if there are high wind speeds.

Cross beading from 500 mm width.





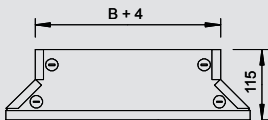
Cover for 90° bend

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFB 90 400 FS	400	1.25	1	336.000	7129 68 8
DFB 90 500 FS	500	1.25	1	451.000	7129 71 8
DFB 90 550 FS	550	1.25	1	518.000	7129 72 6
DFB 90 600 FS	600	1.25	1	585.000	7129 73 4
DFB 90 400 DD	400	1.25	1	336.000	7130 58 9
DFB 90 500 DD	500	1.25	1	451.000	7130 60 0
DFB 90 550 DD	550	1.25	1	613.000	7130 61 9
DFB 90 600 DD	600	1.25	1	695.000	7130 62 7

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /pc.

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

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



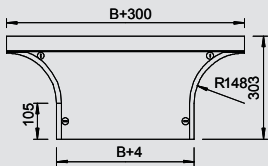
Cover for add-on tee

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFAA 100 FS	100	1	1	18.000	7128 42 8
DFAA 150 FS	150	1	1	23.000	7128 43 6
DFAA 200 FS	200	1	1	28.000	7128 44 4
DFAA 300 FS	300	1	1	38.000	7128 46 0
DFAA 050 DD	50	1	1	15.000	7131 29 1
DFAA 100 DD	100	1	1	20.000	7131 30 5
DFAA 150 DD	150	1	1	25.000	7131 31 0
DFAA 200 DD	200	1	1	30.000	7131 32 1
DFAA 300 DD	300	1	1	40.000	7131 34 8

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /pc.

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

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

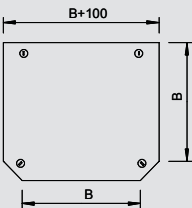


Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFAA 400 FS	400	1.25	1	150.000	7128 48 7
DFAA 500 FS	500	1.25	1	170.000	7128 50 9
DFAA 550 FS	550	1.25	1	185.000	7128 51 7
DFAA 600 FS	600	1.25	1	200.000	7128 52 5
DFAA 400 DD	400	1.25	1	152.000	7131 35 6
DFAA 500 DD	500	1.25	1	172.000	7131 36 4
DFAA 550 DD	550	1.25	1	187.000	7131 37 2
DFAA 600 DD	600	1.25	1	202.000	7131 38 0

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /pc.

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

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



Cover for T branch piece

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFT 100 FS	100	1	1	25.000	7128 21 5
DFT 150 FS	150	1	1	40.000	7128 22 3
DFT 200 FS	200	1	1	60.000	7128 23 1
DFT 300 FS	300	1	1	115.000	7128 26 6
DFT 050 DD	50	1	1	15.000	7129 30 0
DFT 100 DD	100	1	1	27.000	7129 31 9
DFT 150 DD	150	1	1	45.000	7129 32 7
DFT 200 DD	200	1	1	65.000	7129 33 5
DFT 300 DD	300	1	1	125.000	7129 35 1

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /pc.

Cover for tee with pre-mounted turn-buckle.

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



System accessories 35, 60, 85, 110



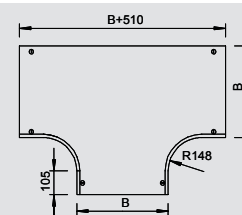
Cover for T branch piece

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFT 400 FS	400	1.25	1	500.000	7128 28 2
DFT 500 FS	500	1.25	1	670.000	7128 30 4
DFT 550 FS	550	1.25	1	750.000	7128 31 2
DFT 600 FS	600	1.25	1	850.000	7128 32 0
DFT 400 DD	400	1.25	1	620.000	7129 38 6
DFT 500 DD	500	1.25	1	820.000	7129 40 8
DFT 550 DD	550	1.25	1	930.000	7129 41 6
DFT 600 DD	600	1.25	1	1,050.000	7129 42 4

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /pc.

Cover for tee with pre-mounted turn-buckle.

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



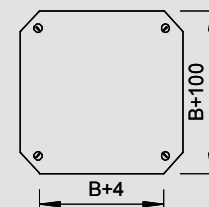
Cover for horizontal cross-over

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFK 100 FS	100	1	1	30.000	7128 61 4
DFK 150 FS	150	1	1	45.000	7128 62 2
DFK 200 FS	200	1	1	70.000	7128 63 0
DFK 300 FS	300	1	1	125.000	7128 65 7
DFK 100 DD	100	1	1	33.000	7131 08 9
DFK 150 DD	150	1	1	49.000	7131 09 7
DFK 200 DD	200	1	1	77.000	7131 10 0
DFK 300 DD	300	1	1	137.000	7131 12 7

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /pc.

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

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



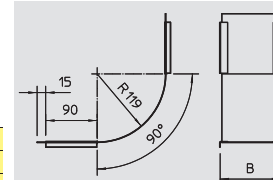
Cover for 90° vertical bend, rising

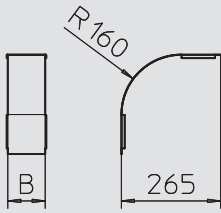
Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBV 050 S FS	50	0.75	1	18.000	7130 80 1
DBV 100 S FS	100	0.75	1	29.000	7130 80 5
DBV 150 S FS	150	0.75	1	39.000	7130 80 9
DBV 200 S FS	200	0.75	1	50.000	7130 81 3
DBV 300 S FS	300	0.75	1	72.000	7130 81 7
DBV 400 S FS	400	0.75	1	94.000	7130 82 1
DBV 500 S FS	500	0.75	1	115.000	7130 82 5
DBV 600 S FS	600	0.75	1	137.000	7130 82 9

ST Steel **FS** Strip-galvanised /pc.

Cover for all rising vertical bends.

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





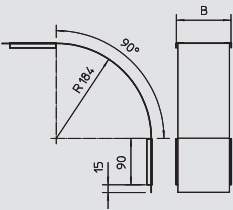
Cover for 90° vertical bend, falling, side height 35

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBV 35 050 F FS	50	0.75	1	10.000	7130 76 0
DBV 35 100 F FS	100	0.75	1	23.000	7130 76 4
DBV 35 150 F FS	150	0.75	1	37.000	7130 76 8
DBV 35 200 F FS	200	0.75	1	45.000	7130 77 2
DBV 35 300 F FS	300	0.75	1	67.000	7130 77 6

ST Steel **FS** Strip-galvanised /pc.

Cover for falling vertical bends of side height 35.

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



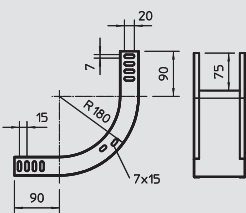
Cover for 90° vertical bend, falling, side height 60

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBV 60 050 F FS	50	0.75	1	21.000	7130 84 7
DBV 60 100 F FS	100	0.75	1	35.000	7130 85 2
DBV 60 150 F FS	150	0.75	1	48.000	7130 85 6
DBV 60 200 F FS	200	0.75	1	62.000	7130 86 0
DBV 60 300 F FS	300	0.75	1	89.000	7130 86 4
DBV 60 400 F FS	400	0.75	1	117.000	7130 86 8
DBV 60 500 F FS	500	0.75	1	145.000	7130 87 2
DBV 60 600 F FS	600	0.75	1	173.000	7130 87 6

ST Steel **FS** Strip-galvanised /pc.

Cover for falling vertical bends of side height 60.

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



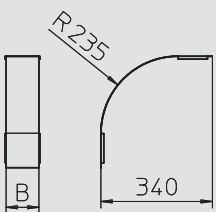
Cover for 90° vertical bend, falling, side height 85

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBV 85 100 F FS	100	0.75	1	27.000	7130 99 0
DBV 85 200 F FS	200	0.75	1	53.000	7130 99 4
DBV 85 300 F FS	300	0.75	1	78.000	7130 99 8
DBV 85 400 F FS	400	0.75	1	103.000	7131 00 2
DBV 85 500 F FS	500	0.75	1	129.000	7131 00 6
DBV 85 600 F FS	600	0.75	1	154.000	7131 01 0

ST Steel **FS** Strip-galvanised /pc.

Cover for falling vertical bends of side height 85.

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



Cover for 90° vertical bend, falling, side height 110

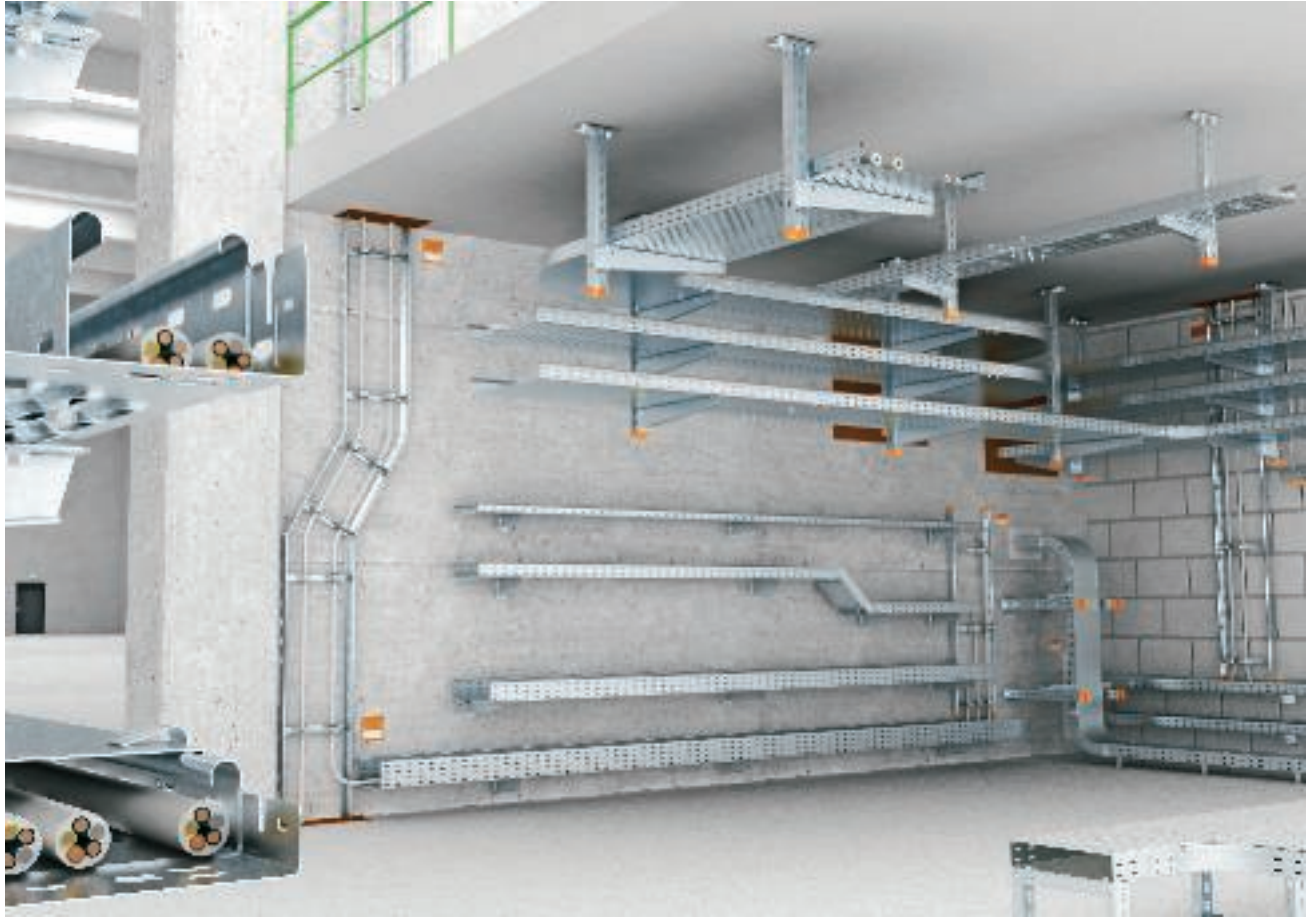
Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBV 110 100 F FS	100	0.75	1	23.000	7131 03 0
DBV 110 200 F FS	200	0.75	1	45.000	7131 03 4
DBV 110 300 F FS	300	0.75	1	67.000	7131 03 8
DBV 110 400 F FS	400	0.75	1	89.000	7131 04 2
DBV 110 500 F FS	500	0.75	1	110.000	7131 04 6
DBV 110 550 F FS	600	0.75	1	121.000	7131 05 0

ST Steel **FS** Strip-galvanised /pc.

Cover for falling vertical bends of side height 110.

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





Cable tray systems, walk-on

	Cable tray	Side height 60 mm	236
		Side height 110 mm	237
	Straight connectors	Straight connector set	238
		Barrier strip connector	237
	Barrier strip	-	237
	Fittings	-	238
	Covers	-	240

Cable tray system, walk-on



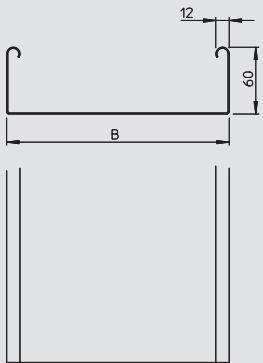
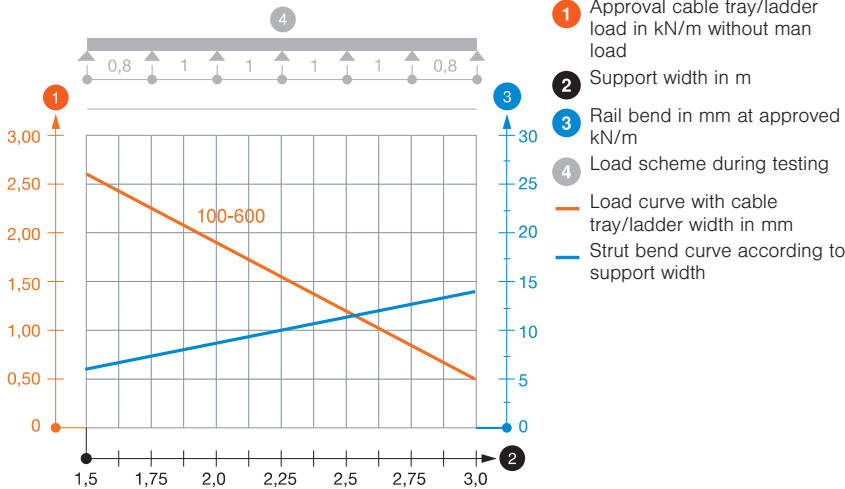
Cable tray SKSU 60

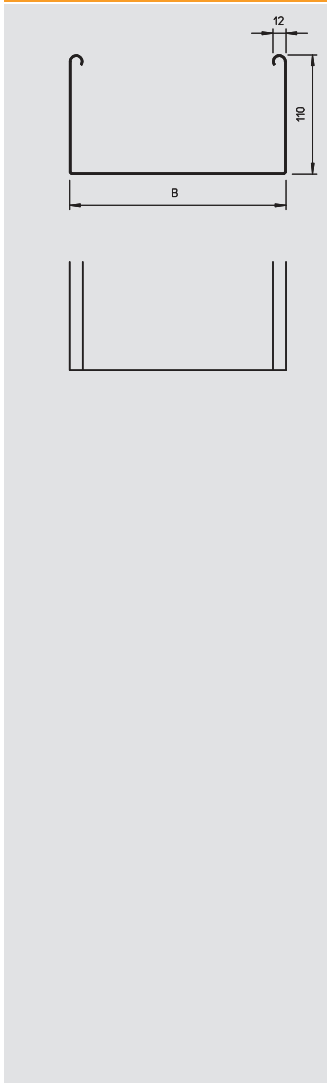
Type	Width	Plate	Length	Useful	Appr. load:				Weight	Item No.
	mm	thickness	mm	cross-section	1.5 m	2.0 m	2.5 m	3.0 m		
		mm	mm	cm ²	kN/m	kN/m	kN/m	kN/m	kg/100 m	
SKSU 610 FS	100	1.5	3,000	58	2.6	1.9	1.1	0.55	286.000	6063 23 4
SKSU 620 FS	200	1.5	3,000	118	2.6	1.9	1.1	0.55	400.000	6063 23 6
SKSU 630 FS	300	1.5	3,000	178	2.6	1.9	1.1	0.55	516.000	6063 23 8
SKSU 640 FS	400	1.5	3,000	238	2.6	1.9	1.1	0.55	639.000	6063 95 0
SKSU 650 FS	500	1.5	3,000	298	2.6	1.9	1.1	0.55	756.700	6063 24 1
SKSU 660 FS	600	1.5	3,000	358	2.6	1.9	1.1	0.55	877.000	6063 27 6
SKSU 610 FT	100	1.5	3,000	58	2.6	1.9	1.1	0.55	303.000	6064 30 7
SKSU 620 FT	200	1.5	3,000	118	2.6	1.9	1.1	0.55	427.300	6064 35 3
SKSU 630 FT	300	1.5	3,000	178	2.6	1.9	1.1	0.55	555.000	6064 40 9
SKSU 640 FT	400	1.5	3,000	238	2.6	1.9	1.1	0.55	687.000	6064 43 5
SKSU 650 FT	500	1.5	3,000	298	2.6	1.9	1.1	0.55	802.000	6064 51 5
SKSU 660 FT	600	1.5	3,000	358	2.6	1.9	1.1	0.55	929.700	6064 52 3

ST Steel FS Strip-galvanised FT Hot-dip galvanised /m

SKS 60 = heavy-duty cable tray system, unperforated, with 60 mm side height.
Magnetic shield insulation without cover 20 dB, with cover 50 dB.
The cable tray has connector perforations on both sides.
Straight connectors should be ordered separately and in the appropriate quantity.

Load diagram, cable tray, type SKSU 60





Cable tray SKSU 110



Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm²	Appr. load:				Weight kg/100 m	Item No.
					1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m		
SKSU 110 FS	100	1.5	3,000	108	3.0	2.4	1.2	0.8	406.200	6063 40 3
SKSU 120 FS	200	1.5	3,000	218	3.0	2.4	1.2	0.8	524.000	6063 43 8
SKSU 130 FS	300	1.5	3,000	328	3.0	2.4	1.2	0.8	637.000	6063 45 4
SKSU 140 FS	400	1.5	3,000	438	3.0	2.4	1.2	0.8	759.500	6063 47 0
SKSU 150 FS	500	1.5	3,000	548	3.0	2.4	1.2	0.8	872.000	6063 49 7
SKSU 155 FS	550	1.5	3,000	603	3.0	2.4	1.2	0.8	932.000	6063 50 0
SKSU 110 FT	100	1.5	3,000	108	3.0	2.4	1.2	0.8	420.000	6064 79 5
SKSU 120 FT	200	1.5	3,000	218	3.0	2.4	1.2	0.8	551.000	6064 83 3
SKSU 130 FT	300	1.5	3,000	328	3.0	2.4	1.2	0.8	694.000	6064 88 4
SKSU 140 FT	400	1.5	3,000	438	3.0	2.4	1.2	0.8	823.000	6064 92 2
SKSU 150 FT	500	1.5	3,000	548	3.0	2.4	1.2	0.8	925.000	6064 96 5
SKSU 155 FT	550	1.5	3,000	605	3.0	2.4	1.2	0.8	988.000	6064 97 3

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /m

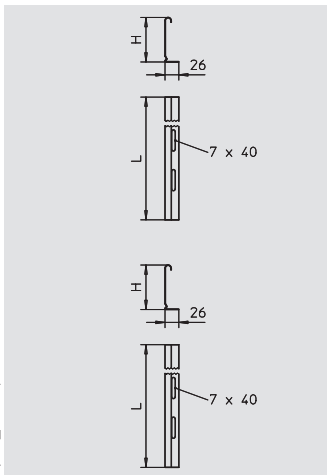
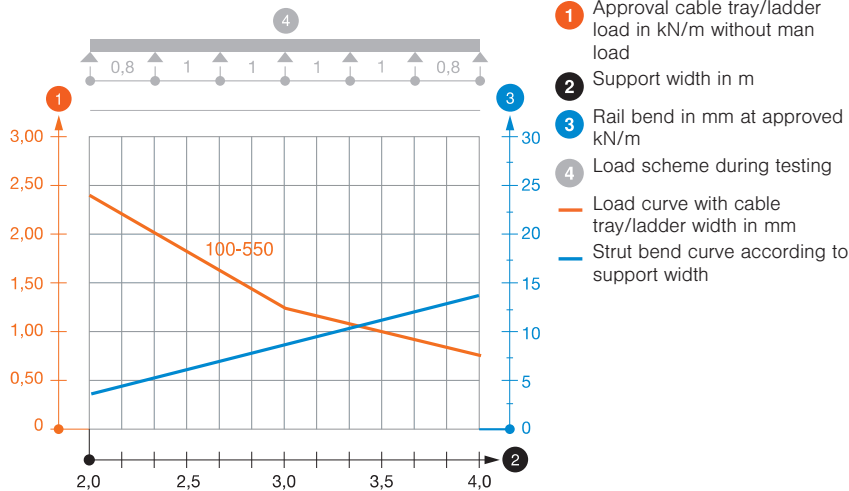
SKS 110 = heavy-duty cable tray system, unperforated, with 110 mm side height.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.

The cable tray has connector perforations on both sides.

Straight connectors should be ordered separately and in the appropriate quantity.

Load diagram, cable tray, type SKSU 110



Barrier strip

Type	Dimen- sion H mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
TSG 60 FS	60	3,000	45	0.000	6062 06 8
TSG 60 DD	60	3,000	45	0.000	6062 32 7

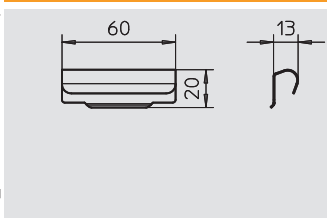
ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /m

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

Type	Dimen- sion H mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
TSG 110 FS	110	3,000	30	0.000	6062 12 2
TSG 110 DD	110	3,000	30	0.000	6062 33 5

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /m

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



Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1.000	6067 97 0

V2A Stainless steel, 1.4310 /pc.

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



Cable tray system, walk-on

Straight connector set

Type	Width mm	Height mm	Dimension L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RVS 60 10 DD	100	60	180	5	28.000	6068 77 1
RVS 60 20 DD	200	60	180	5	57.000	6068 77 3
RVS 60 30 DD	300	60	180	5	85.000	6068 77 5
RVS 60 40 DD	400	60	180	5	113.000	6068 77 7
RVS 60 50 DD	500	60	180	5	141.000	6068 77 9
RVS 60 60 DD	600	60	180	5	169.000	6068 78 1

ST Steel **DD** Zinc-aluminium coated, double-dip /pc.

Connector and ceiling support for the walkable cable tray system. The straight connectors are attached to the side rail of the cable tray and are fixed with the suitable bolts, type FRS M6 x 12. Then the appropriate cover support is inserted. From a width of 400 mm, we recommend inserting additional cover supports in the centre of the cable tray.

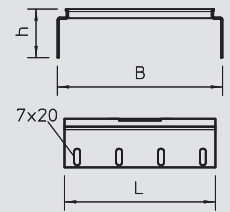
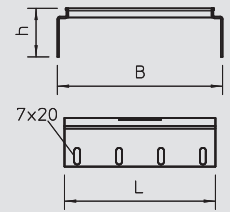
The bolt fastening ensures the continuity of the equipotential bonding. Including appropriate bolts with combination nuts.

Type	Width mm	Height mm	Dimension L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RVS 110 10 DD	100	110	180	5	76.000	6068 78 9
RVS 110 20 DD	200	110	180	5	89.000	6068 79 1
RVS 110 30 DD	300	110	180	5	102.000	6068 79 3
RVS 110 40 DD	400	110	180	5	115.000	6068 79 5
RVS 110 50 DD	500	110	180	5	128.000	6068 79 7
RVS 110 55 DD	550	110	180	5	135.000	6068 79 9

ST Steel **DD** Zinc-aluminium coated, double-dip /pc.

Connector and ceiling support for the walkable cable tray system. The straight connectors are attached to the side rail of the cable tray and are fixed with the suitable bolts, type FRS M6 x 12. Then the appropriate cover support is inserted. From a width of 400 mm, we recommend inserting additional cover supports in the centre of the cable tray.

The bolt fastening ensures the continuity of the equipotential bonding. Including appropriate bolts with combination nuts.



90° bend

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 90 610 FS	100	1	56.000	6043 21 6
RB 90 620 FS	200	1	95.000	6043 22 4
RB 90 630 FS	300	1	150.000	6043 23 2
RB 90 610 FT	100	1	60.000	7125 10 0
RB 90 620 FT	200	1	101.000	7125 22 0
RB 90 630 FT	300	1	160.000	7125 30 5

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

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

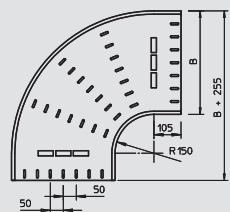
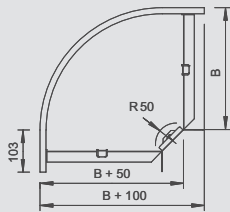
The fitting is shipped in an unmounted state. Including appropriate fastening material.

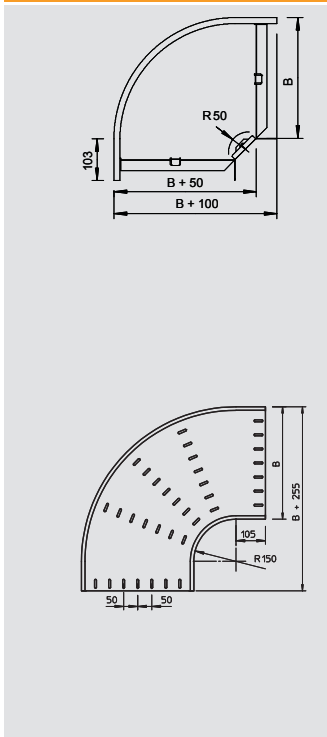
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB 90 640 FS	400	1	523.400	7001 29 0
RB 90 650 FS	500	1	683.400	7001 30 4
RB 90 660 FS	600	1	864.900	7001 31 2
RB 90 640 FT	400	1	570.500	7125 41 0
RB 90 650 FT	500	1	744.900	7125 52 6
RB 90 660 FT	600	1	942.700	7125 58 5

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

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

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





90° bend				
Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RB 90 110 FS	100	1	80.000	7001 89 4
RB 90 120 FS	200	1	140.000	7001 91 6
RB 90 130 FS	300	1	210.000	7001 93 2
RB 90 110 FT	100	1	85.000	7127 10 3
RB 90 120 FT	200	1	150.000	7127 22 7
RB 90 130 FT	300	1	230.000	7127 32 0

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

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

The fitting is shipped in an unmounted state.

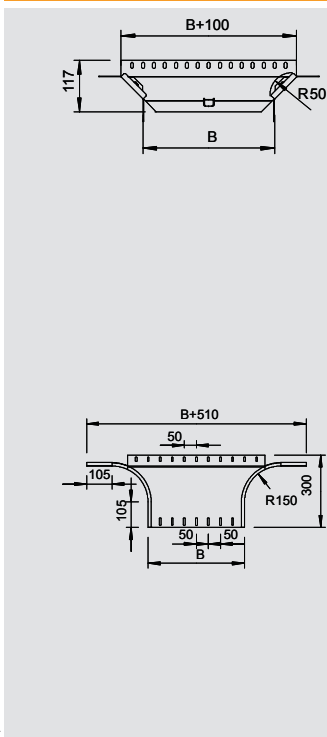
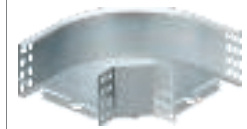
Including appropriate fastening material.

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RB 90 140 FS	400	1	540.000	7001 94 0
RB 90 150 FS	500	1	700.000	7001 96 7
RB 90 155 FS	550	1	780.000	7001 97 5
RB 90 140 FT	400	1	575.000	7127 41 3
RB 90 150 FT	500	1	750.000	7127 49 9
RB 90 155 FT	550	1	840.000	7127 54 5

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

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

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



Add-on tee				
Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RAA 610 FS	100	1	43.000	6040 40 3
RAA 620 FS	200	1	40.000	6040 43 8
RAA 630 FS	300	1	50.000	6040 44 6
RAA 610 FT	100	1	60.000	7121 10 9
RAA 620 FT	200	1	43.000	7121 21 0
RAA 630 FT	300	1	55.000	7121 31 8

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /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.

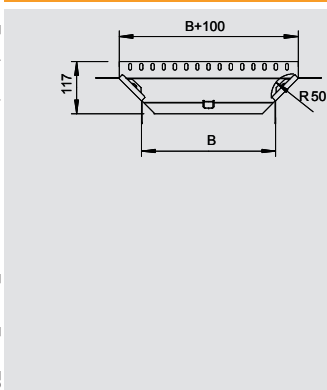
Including appropriate fastening material.

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RAA 640 FS	400	1	220.000	7002 39 4
RAA 650 FS	500	1	255.000	7002 41 6
RAA 660 FS	600	1	285.000	7002 43 2
RAA 640 FT	400	1	240.000	7121 40 7
RAA 650 FT	500	1	280.000	7121 50 4
RAA 660 FT	600	1	310.000	7121 60 1

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

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

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



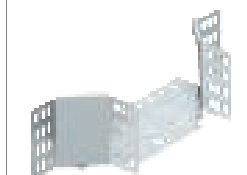
Add-on tee				
Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
RAA 110 FS	100	1	45.000	7002 63 7
RAA 120 FS	200	1	55.000	7002 65 3
RAA 130 FS	300	1	70.000	7002 68 8
RAA 110 FT	100	1	50.000	7123 11 6
RAA 120 FT	200	1	60.000	7123 21 3
RAA 130 FT	300	1	75.000	7123 31 0

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Add-on tee for horizontal and vertical use. For all cable tray types of 110 mm side height.

The fitting is shipped in an unmounted state.

Including appropriate fastening material.



Cable tray system, walk-on



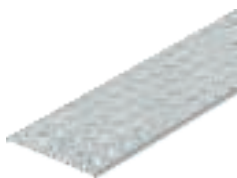
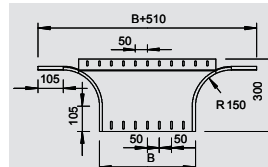
Add-on tee

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RAA 140 FS	400	1	250.000	7002 69 6
RAA 150 FS	500	1	285.000	7002 72 6
RAA 155 FS	550	1	300.000	7002 73 4
RAA 140 FT	400	1	270.000	7123 39 6
RAA 150 FT	500	1	310.000	7123 50 7
RAA 155 FT	550	1	325.000	7123 55 8

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Add-on tee for horizontal and vertical use. For all cable tray types of 110 mm side height.

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



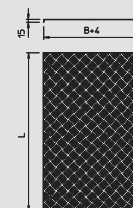
Cover with corrugated sheet

Type	Width mm	Plate thickness mm	Length mm	Weight kg/100 m	Item No.
DRL BKS10 ALU	100	2.5	1,000	101.000	6052 75 0
DRL BKS20 ALU	200	2.5	1,000	171.000	6052 75 2
DRL BKS30 ALU	300	2.5	1,000	236.000	6052 75 5
DRL BKS40 ALU	400	2.5	1,000	303.000	6052 75 7
DRL BKS50 ALU	500	2.5	1,000	365.000	6052 75 9
DRL BKS55 ALU	550	2.5	1,000	405.000	6052 76 1
DRL BKS60 ALU	600	2.5	1,000	438.000	6052 76 3

Al Aluminium /m

Corrugated aluminium cover, with clamping springs for screwless cover mounting, walkable.

The cover can be used for side heights 60 and 110 mm.



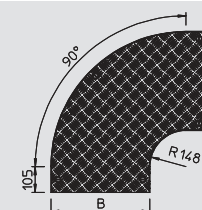
Cover with corrugated sheet for 90° bend

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFB BKS90100	100	4.5	1	55.500	7130 74 1
DFB BKS90200	200	4.5	1	135.200	7130 74 3
DFB BKS90300	300	4.5	1	261.400	7130 74 5
DFB BKS90400	400	4.75	1	618.000	7130 74 7
DFB BKS90500	500	4.75	1	842.000	7130 74 9
DFB BKS90550	550	4.75	1	964.000	7130 75 1
DFB BKS90600	600	4.75	1	1,093.000	7130 75 3

Al Aluminium **DD** Zinc-aluminium coated, double-dip /pc.

Cover for 90° bend with pre-mounted turn-buckle, walkable due to additional checker plate.

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



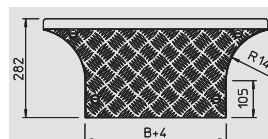
Cover with corrugated sheet for add-on tee

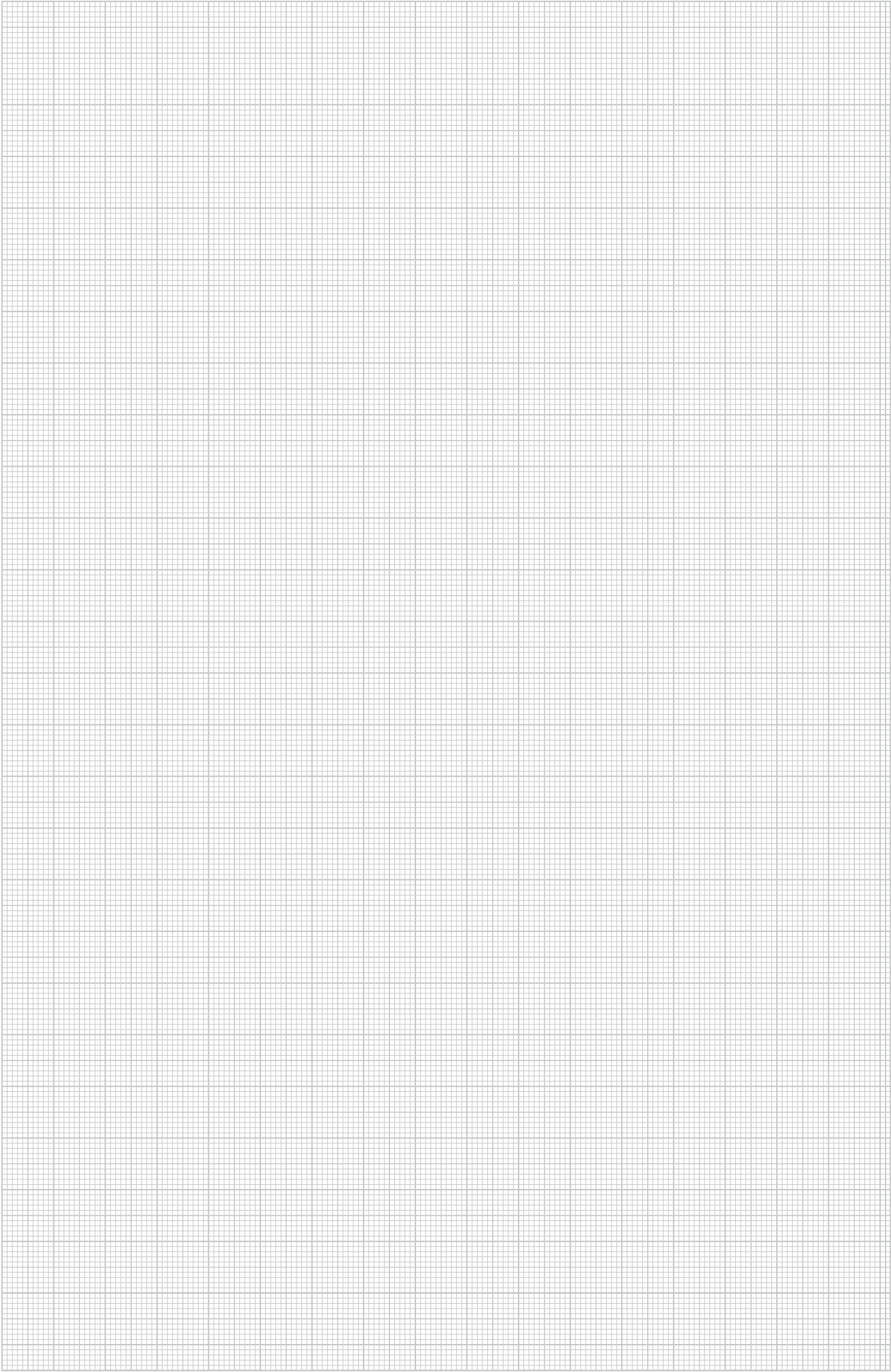
Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFAA BKS100 DD	100	4.5	1	39.000	7131 45 0
DFAA BKS200 DD	200	4.5	1	65.000	7131 45 2
DFAA BKS300 DD	300	4.5	1	91.000	7131 45 4
DFAA BKS400 DD	400	4.75	1	247.000	7131 45 6
DFAA BKS500 DD	500	4.75	1	291.000	7131 45 8
DFAA BKS550 DD	550	4.75	1	318.000	7131 46 0
DFAA BKS600 DD	600	4.75	1	343.000	7131 46 2

Al Aluminium **DD** Zinc-aluminium coated, double-dip /pc.

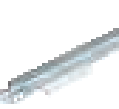
Cover for add-on tee with pre-mounted turn-buckle, walkable due to additional checker plate.

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





Mesh cable tray systems

	Side height 35 mm	Barrier strip	244
		Barrier strip connector	244
	Side height 55 mm	Mesh cable tray GR-Magic	245
		With barrier strip	246
		Barrier strip	246
		Barrier strip connector	247
	Side height 105 mm	Fittings	247
		Mesh cable tray GR-Magic	248
		Barrier strip	248
		Barrier strip connector	248
	Accessories for side height 35, 55, 105 mm	Fittings	249
		Connector	250
		Clamping piece	
		Wall clamp and central hanger	
		Stand-off bracket	
		Central suspension	
	G mesh cable tray Magic	Mounting plate	
		Covers	254
		Mesh angle	254
		Side height 50 mm	255
	C mesh cable tray	Side height 75 mm	255
		Side height 125 mm	255
		Side height 150 mm	255
	C mesh cable tray	Side height 50 mm	256

Side height 35



Mesh cable tray GR-Magic®

Type	Width	Wire Ø	Length	Useful cross-section	Appr. load:			Weight	Item No.
	mm	mm	mm	cm²	1.0 m	1.5 m	2.0 m		
					kN/m	kN/m	kN/m	kg/100 m	
GRM 35 50 G	50	3.9	3,000	17.5	0.25	0.11	0.1	45.300	6000 06 0
GRM 35 100 G	100	3.9	3,000	35	0.25	0.11	0.1	49.300	6000 06 2
GRM 35 150 G	150	3.9	3,000	52.5	0.25	0.11	0.1	63.100	6000 06 3
GRM 35 200 G	200	3.9	3,000	70	0.3	0.14	0.1	76.800	6000 06 4
GRM 35 300 G	300	4.8	3,000	105	0.75	0.22	0.15	159.100	6000 06 6
GRM 35 50 FT	50	3.9	3,000	17.5	0.25	0.11	0.1	46.300	6000 06 9
GRM 35 100 FT	100	3.9	3,000	35	0.25	0.11	0.1	50.400	6000 07 1
GRM 35 150 FT	150	3.9	3,000	52.5	0.25	0.11	0.1	64.500	6000 07 2
GRM 35 200 FT	200	3.9	3,000	70	0.3	0.14	0.3	78.600	6000 07 3
GRM 35 300 FT	300	4.8	3,000	105	0.75	0.22	0.15	162.700	6000 07 5

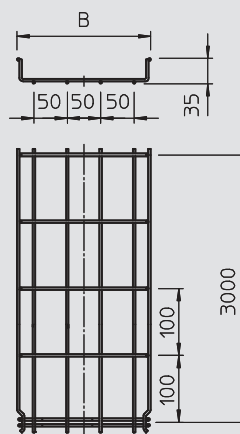
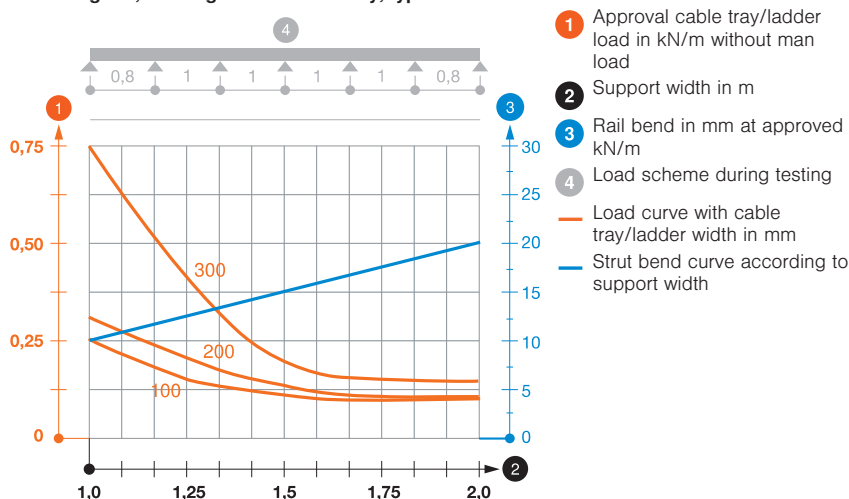
ST Steel **G** Electrogalvanised **FT** Hot-dip galvanised /m

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

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

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

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

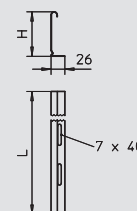


Barrier strip

Type	Dimension H	Dimension L	Pack.	Weight	Item No.
	mm	mm	m	kg/100 m	
TSG 30 FS	30	3,000	45	0.000	6062 05 0
TSG 30 DD	30	3,000	45	0.000	6062 31 4

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /m

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



Barrier strip connector

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
TSGV VA4310	10	1.000	6067 97 0

V2A Stainless steel, 1.4310 /pc.

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

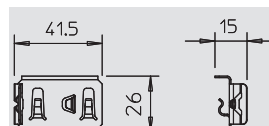


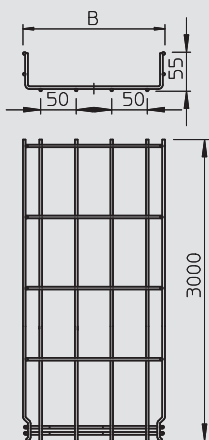
Clamping piece for barrier strip fastening

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KS GR VA4310	30	0.830	6062 28 2

V2A Stainless steel, 1.4310 /100 pc.

Clamping piece for fastening barrier strips in mesh cable trays.





Mesh cable tray GR-Magic®



Type	Width mm	Wire Ø mm	Length mm	Useful cross- section cm²	Appr. load:			Weight kg/100 m	Item No.
					1.0 m kN/m	1.5 m kN/m	2.0 m kN/m		
GRM 55 100 F	100	3.9	3,000	40	0.25	0.12	0.08	72.000	6001 04 0
GRM 55 150 F	150	3.9	3,000	63	0.25	0.12	0.08	85.700	6001 04 4
GRM 55 200 F	200	3.9	3,000	87	0.25	0.12	0.08	99.600	6001 04 7
GRM 55 300 F	300	4.8	3,000	129	0.6	0.28	0.25	192.600	6001 05 0
GRM 55 400 F	400	4.8	3,000	175	0.6	0.28	0.25	234.600	6001 05 3
GRM 55 500 F	500	4.8	3,000	220	0.75	0.38	0.25	276.500	6001 05 6
GRM 55 600 F	600	4.8	3,000	265	0.75	0.38	0.25	318.400	6001 05 9
GRM 55 50 G	50	3.9	3,000	16	0.25	0.12	0.08	67.000	6001 44 1
GRM 55 100 G	100	3.9	3,000	40	0.25	0.12	0.08	72.400	6001 44 2
GRM 55 150 G	150	3.9	3,000	63	0.25	0.12	0.08	85.800	6001 44 4
GRM 55 200 G	200	3.9	3,000	87	0.25	0.12	0.08	100.000	6001 44 6
GRM 55 200 4.8 G	200	4.8	3,000	87	0.6	0.28	0.25	151.000	6001 44 7
GRM 55 300 G	300	4.8	3,000	129	0.6	0.28	0.25	194.500	6001 44 8
GRM 55 400 G	400	4.8	3,000	175	0.6	0.28	0.25	236.700	6001 45 0
GRM 55 500 G	500	4.8	3,000	220	0.75	0.38	0.25	279.000	6001 45 2
GRM 55 600 G	600	4.8	3,000	265	0.75	0.38	0.25	321.200	6001 45 4
GRM 55 50 FT	50	3.9	3,000	16	0.25	0.12	0.08	70.000	6001 41 5
GRM 55 100 FT	100	3.9	3,000	40	0.25	0.12	0.08	71.330	6001 41 6
GRM 55 150 FT	150	3.9	3,000	63	0.25	0.12	0.08	89.900	6001 41 8
GRM 55 200 FT	200	3.9	3,000	87	0.25	0.12	0.08	103.500	6001 42 0
GRM 55 200 4.8 FT	200	4.8	3,000	87	0.6	0.28	0.25	154.300	6001 42 1
GRM 55 300 FT	300	4.8	3,000	129	0.6	0.28	0.25	200.700	6001 42 4
GRM 55 400 FT	400	4.8	3,000	175	0.6	0.28	0.25	244.300	6001 42 8
GRM 55 500 FT	500	4.8	3,000	220	0.75	0.38	0.25	287.900	6001 43 2
GRM 55 600 FT	600	4.8	3,000	265	0.75	0.38	0.25	331.600	6001 43 6

ST Steel F Hot-dip galvanised G Electrogalvanised FT Hot-dip galvanised /m

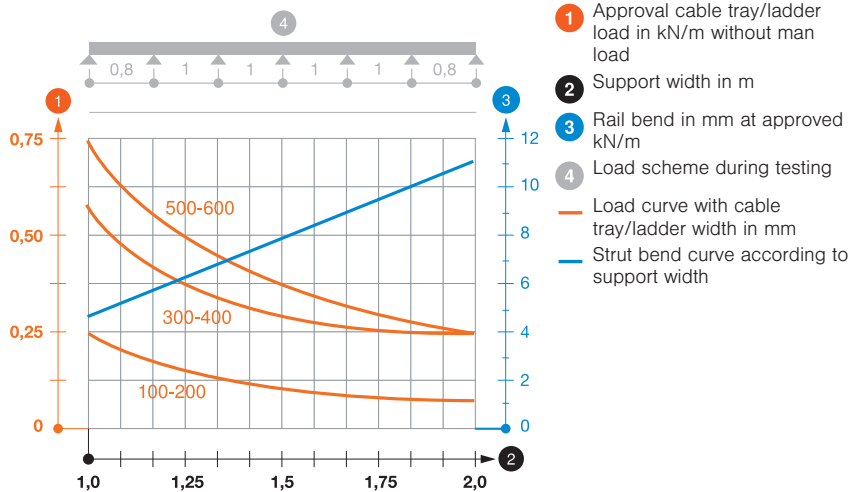
Mesh cable tray with shaped connector of side height 55 mm.

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

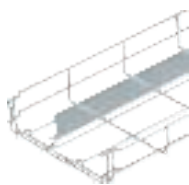
No additional connection components are required for the mesh cable tray, it is simply inter-locked. The grid width is 50 x 100 mm (exception: GRM 55/50 = 20 x 100 mm).

Description, surface F = pre-galvanised wires according to DIN EN 10244/2 (surface approx. 10 µm).

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



Side height 55



Mesh cable tray GR-Magic® with barrier strip

Type	Width mm	Dimension A mm	Wire Ø mm	Length mm	Useful cross-section cm²	Appr. load: 1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	Weight kg/100 m	Item No.
GRM-T 55 100 G	100	59.5	3.9	3,000	40	0.35	0.25	0.13	116.500	6006 45 3
GRM-T 55 200 G	200	59.5	3.9	3,000	87	0.35	0.25	0.13	144.100	6006 45 5
GRM-T 55 300 G	300	199.5	4.8	3,000	129	0.75	0.45	0.3	238.600	6006 45 6
GRM-T 55 400 G	400	299.5	4.8	3,000	175	0.75	0.45	0.3	280.800	6006 45 7
GRM-T 55 500 G	500	399.5	4.8	3,000	220	0.75	0.45	0.3	323.100	6006 45 8

ST Steel

G Electrogalvanised

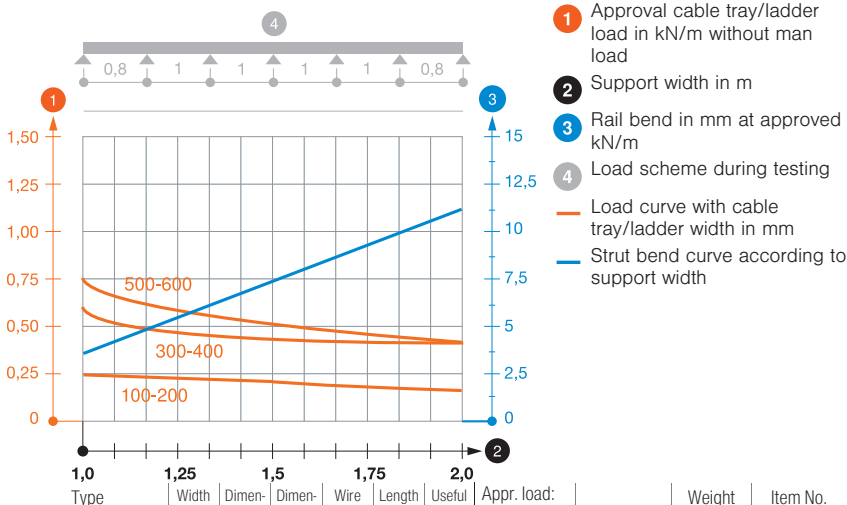
/m

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

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

No additional connection components are required for the mesh cable tray, it is simply inter-locked. The grid width is 50 x 100 mm.

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



Type	Width mm	Dimension I1 mm	Dimension I2 mm	Wire Ø mm	Length mm	Useful cross-section cm²	Appr. load: 1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	Weight kg/100 m	Item No.
GRM-2T 55 200 G	200	69	69	3.9	3,000	87	0.62	0.38	0.26	188.200	6006 39 5
GRM-2T 55 300	300	119	119	4.8	3,000	129	0.97	0.58	0.45	282.700	6006 39 6
GRM-2T 55 400 G	400	118	230	4.8	3,000	175	1.5	0.8	0.55	336.700	6006 39 7

ST Steel

G Electrogalvanised

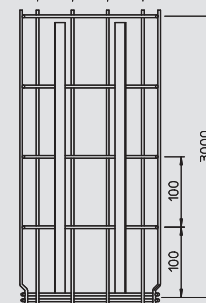
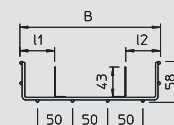
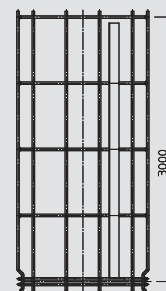
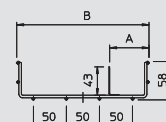
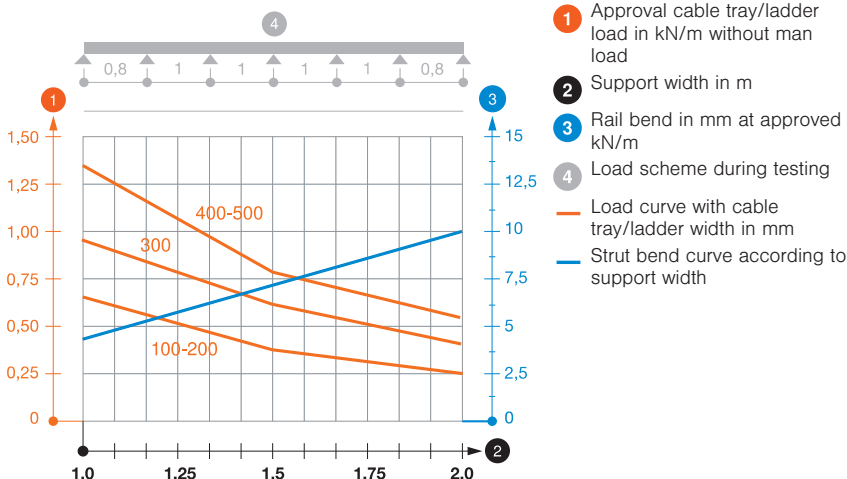
/m

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

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

No additional connection components are required for the mesh cable tray, it is simply inter-locked. The grid width is 50 x 100 mm.

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



Barrier strip

Type	Dimension H mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 45 FS	45	3,000	45	0.000	6062 03 3
TSG 45 DD	45	3,000	45	0.000	6062 32 1

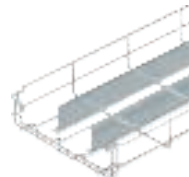
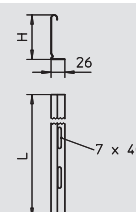
ST Steel

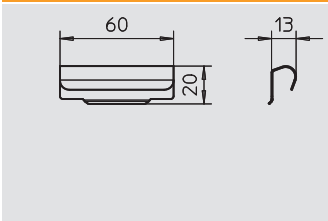
FS Strip-galvanised

DD Zinc-aluminium coated, double-dip

/m

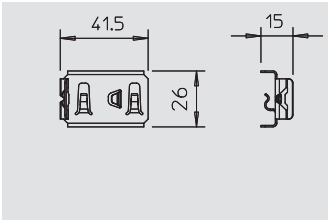
Barrier strip for separation of cables of different voltages or functions.





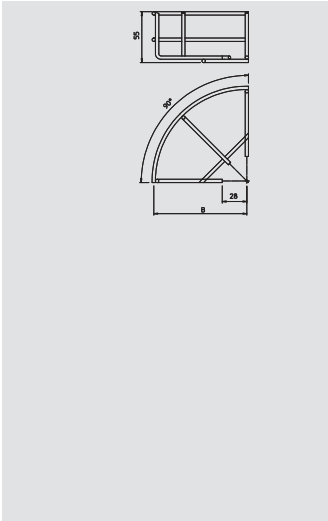
Barrier strip connector

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
TSGV VA4310	10	1.000	6067 97 0
V2A Stainless steel, 1.4310			/pc.
Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.			



Clamping piece for barrier strip fastening

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KS GR VA4310	30	0.830	6062 28 2
V2A Stainless steel, 1.4310			/100 pc.
Clamping piece for fastening barrier strips in mesh cable trays.			



90° mesh cable tray bend

Type	Width	Wire Ø	Pack.	Weight	Item No.
	mm	mm	pcs	kg/100 pcs.	
GRB 90 510 G	100	3.9	1	7.000	6001 92 0
GRB 90 515 G	150	3.9	1	14.400	6001 99 8
GRB 90 520 G	200	3.9	1	18.400	6001 93 9
GRB 90 530 G	300	4.4	1	41.700	6001 94 7
GRB 90 540 G	400	4.8	1	65.500	6001 95 5
GRB 90 550 G	500	4.8	1	95.000	6001 96 3
GRB 90 560 G	600	4.8	1	114.000	6001 97 1
GRB 90 510 FT	100	3.9	1	7.500	6002 21 8
GRB 90 515 FT	150	3.9	1	15.100	6002 22 2
GRB 90 520 FT	200	3.9	1	20.000	6002 22 6
GRB 90 530 FT	300	4.4	1	43.500	6002 23 4
GRB 90 540 FT	400	4.8	1	68.000	6002 24 2
GRB 90 550 FT	500	4.8	1	100.000	6002 25 0
GRB 90 560 FT	600	4.8	1	118.000	6002 26 9
ST Steel	G Electrogalvanised	FT Hot-dip galvanised			/pc.
90° bend, horizontal, for all mesh cable trays of 55 mm side height.					



Side height 105



Mesh cable tray GR-Magic®

Type	Width mm	Wire Ø mm	Length mm	Useful cross- section cm²	Appr. load:			Weight kg/100 m	Item No.
					1.0 m	1.5 m	2.0 m		
					kN/m	kN/m	kN/m		
GRM 105 100 G	100	3.9	3,000	82	0.8	0.55	0.37	100.000	6002 40 2
GRM 105 150 G	150	3.9	3,000	130	0.8	0.55	0.37	110.900	6002 40 4
GRM 105 200 G	200	4.8	3,000	175	0.8	0.55	0.37	194.500	6002 40 6
GRM 105 300 G	300	4.8	3,000	268	1.1	0.75	0.53	236.700	6002 40 8
GRM 105 400 G	400	4.8	3,000	363	1.1	0.75	0.53	278.000	6002 41 0
GRM 105 500 G	500	4.8	3,000	459	1.25	0.85	0.6	319.000	6002 41 5
GRM 105 600 G	600	4.8	3,000	554	1.25	0.85	0.6	359.000	6002 41 7
GRM 105 100 FT	100	3.9	3,000	82	0.8	0.55	0.37	103.700	6002 43 1
GRM 105 150 FT	150	3.9	3,000	130	0.8	0.55	0.37	116.200	6002 43 3
GRM 105 200 FT	200	4.8	3,000	175	0.8	0.55	0.37	200.700	6002 43 5
GRM 105 300 FT	300	4.8	3,000	268	1.1	0.75	0.53	244.300	6002 43 7
GRM 105 400 FT	400	4.8	3,000	363	1.1	0.75	0.53	288.000	6002 43 9
GRM 105 500 FT	500	4.8	3,000	459	1.25	0.85	0.6	333.000	6002 44 3
GRM 105 600 FT	600	4.8	3,000	554	1.25	0.85	0.6	370.000	6002 44 5

ST Steel

G Electrogalvanised

FT Hot-dip galvanised

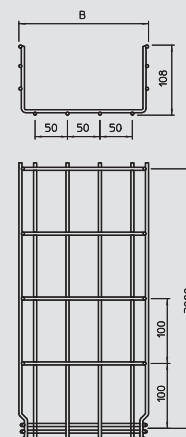
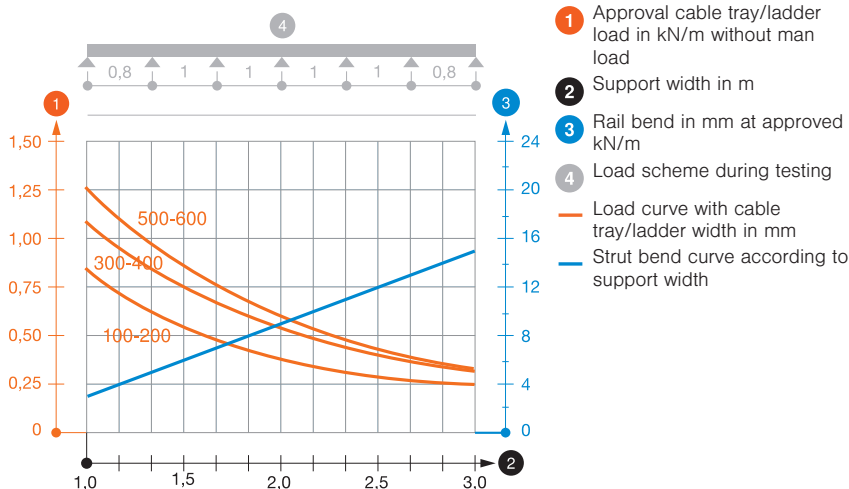
/m

Mesh cable tray with shaped connector of side height 105 mm.

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

No additional connection components are required for the mesh cable tray, it is simply inter-locked. The grid width is 50 x 100 mm.

Load diagram, mesh cable tray, type GRM 105



Barrier strip

Type	Dimension H mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 85 FS	85	3,000	45	0.000	6062 11 4
TSG 85 DD	85	3,000	45	0.000	6062 33 1

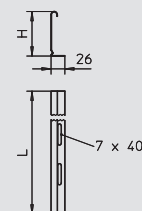
ST Steel

FS Strip-galvanised

DD Zinc-aluminium coated, double-dip

/m

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



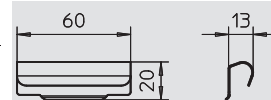
Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1.000	6067 97 0

V2A Stainless steel, 1.4310

/pc.

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



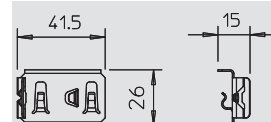
Clamping piece for barrier strip fastening

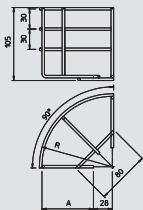
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS GR VA4310	30	0.830	6062 28 2

V2A Stainless steel, 1.4310

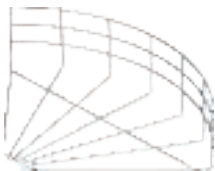
/100 pc.

Clamping piece for fastening barrier strips in mesh cable trays.





90° mesh cable tray bend



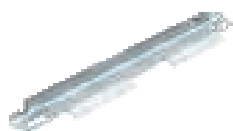
Type	Width mm	Wire Ø mm	Pack.	Weight	Item No.
			pcs	kg/100 pcs.	
GRB 90 110 G	100	3.9	1	9.500	6002 37 0
GRB 90 115 G	150	3.9	1	18.800	6002 37 2
GRB 90 120 G	200	4.4	1	30.400	6002 37 4
GRB 90 130 G	300	4.8	1	51.200	6002 37 6
GRB 90 140 G	400	4.8	1	78.900	6002 37 8
GRB 90 145 G	450	4.8	1	101.300	6002 38 0
GRB 90 150 G	500	4.8	1	111.700	6002 38 2
GRB 90 160 G	600	4.8	1	132.400	6002 38 4
GRB 90 110 FT	100	3.9	1	10.000	6002 30 7
GRB 90 115 FT	150	3.9	1	19.700	6002 31 1
GRB 90 120 FT	200	4.4	1	31.000	6002 31 5
GRB 90 130 FT	300	4.8	1	63.000	6002 32 3
GRB 90 140 FT	400	4.8	1	81.900	6002 33 1
GRB 90 150 FT	500	4.8	1	116.000	6002 35 8
GRB 90 160 FT	600	4.8	1	137.400	6002 36 6

ST Steel G Electrogalvanised FT Hot-dip galvanised /pc.

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



Accessories for side height 35, 55, 105 mm

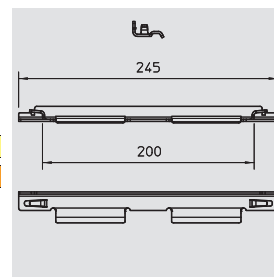


Mesh cable tray connector, long

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GRV 245 FS	245	50	13.500	6016 68 0
GRV 245 DD	245	50	13.500	6016 68 4
ST Steel	FS Strip-galvanised	DD Zinc-aluminium coated, double-dip	/pc.	

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

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

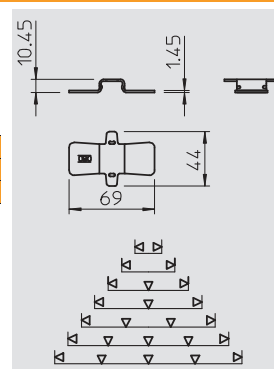


Quick connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GRS 3.9 DD	50	2.500	6016 54 5
GRS 4.4 DD	50	2.500	6016 55 3
GRS 4.8 DD	50	2.500	6016 56 1
ST Steel	DD Zinc-aluminium coated, double-dip	/pc.	

Quick connector for screwless straight connection of mesh cable trays without special tools.

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



Joint connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GSV 34 G	25	3.000	6016 59 6
ST Steel	G Electrogalvanised	/pc.	

Screwed version of joint connector for cable trays.

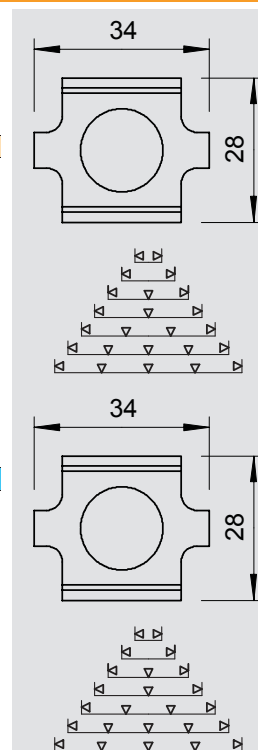
Including FRS M6 x 20 bolt with nut-and-washer assembly.



Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GSV 34 FT	25	3.000	6016 63 4
ST Steel	FT Hot-dip galvanised	/pc.	

Screwed version of joint connector for mesh cable trays.

Including FRS M6 x 20 bolt with nut-and-washer assembly.

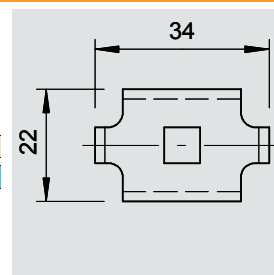


Clamping piece

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
GKS 34 G	100	2.000	6016 85 5
GKS 34 FT	100	2.000	6016 82 0
ST Steel	G Electrogalvanised	FT Hot-dip galvanised	/pc.

Clamp for fastening mesh cable trays to wall or support brackets.

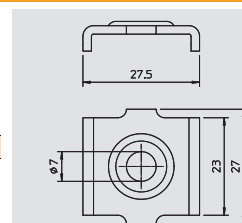
Including FRS M6 x 20 bolt with nut-and-washer assembly.



Clamping piece

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GKB 34 G	50	1.000	6016 67 4
ST Steel	G Electrogalvanised	/pc.	

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



Accessories for side height 35, 55, 105 mm

Accessories for side height 35, 55, 105 mm



Wall clamp and central hanger

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
K 12 1818 FS	25	7.600	6437 10 9
K12 1818 VA4301	25	7.600	6016 42 1

ST Steel **V2A** Stainless steel, 1.4301 **FS** Strip-galvanised /pc.

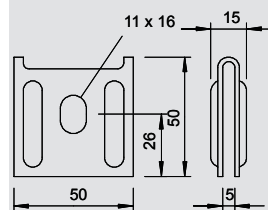
Wall clamp and central hanger for mesh cable trays.

Recommendation:

As wall mounting up to max. mesh cable tray width 200 mm.

As centre suspension up to max. mesh cable tray width 200 mm.

As a trapeze suspension from a width of 300 mm.



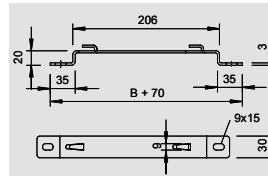
Stand-off bracket

Type	Dimension B mm	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
DBLG 20 050 FS	50	20	10.300	6015 64 6
DBLG 20 100 FS	100	20	13.800	6015 65 4
DBLG 20 150 FS	150	20	17.400	6015 65 8
DBLG 20 200 FS	200	20	20.900	6015 66 2
DBLG 20 300 FS	300	20	37.300	6015 67 0
DBLG 20 400 FS	400	20	46.700	6015 68 9
DBLG 20 500 FS	500	25	56.900	6015 69 3
DBLG 20 600 FS	600	25	66.400	6015 69 7
DBLG 20 050 FT	50	20	10.700	6015 64 8
DBLG 20 100 FT	100	20	14.300	6015 65 6
DBLG 20 150 FT	150	20	18.100	6015 66 0
DBLG 20 200 FT	200	20	21.700	6015 66 4
DBLG 20 300 FT	300	20	38.800	6015 67 2
DBLG 20 400 FT	400	20	48.600	6015 69 1
DBLG 20 500 FT	500	25	59.200	6015 69 5
DBLG 20 600 FT	600	25	69.100	6015 69 9

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Stand-off bracket for stand-off of mesh cable trays on the floor or on the wall.

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



Threaded rod

Type	Thread	Dimension d mm	Dimension L mm	Pack.	Weight	Item No.
				pcs	kg/100 pcs.	
2078 M8 1M G	M8	8	1,000	50	30.000	3141 12 8
2078 M10 1M G	M10	10	1,000	25	49.000	3141 20 9
2078 M12 1M G	M12	12	1,000	20	100.000	3141 30 6
2078 M8 VA	M8	8	1,000	50	30.000	3141 31 0
2078 M10 VA	M10	10	1,000	25	49.000	3141 31 2
2078 M12 VA	M12	12	1,000	20	70.000	3141 31 4

ST Steel **V2A** Stainless steel, 1.4301 **G** Electrogalvanised /100 pc.

Threaded rod to DIN 976.

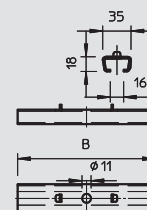


Central suspension

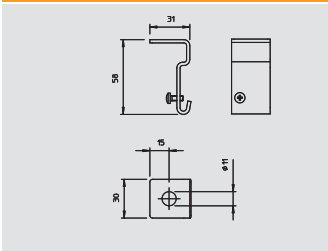
Type	Dimension B mm	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
GMS 170 FS	170	25	20.000	6015 40 0
GMS 270 FS	270	25	32.000	6015 40 2
GMS 370 FS	370	25	43.000	6015 40 4
GMS 470 FS	470	10	55.000	6015 40 6
GMS 570 FS	570	10	67.000	6015 40 8
GMS 170 VA4401	170	25	20.000	6015 41 8
GMS 270 VA4401	270	25	32.000	6015 41 9
GMS 370 VA4401	370	25	43.000	6015 42 0
GMS 470 VA4401	470	10	55.000	6015 42 1
GMS 570 VA4401	570	10	67.000	6015 42 2

ST Steel **V4A** Stainless steel, 1.4401 **FS** Strip-galvanised /pc.

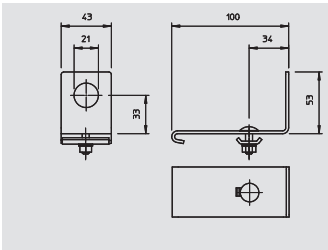
Central suspension including clamp for mesh cable tray suspensions.



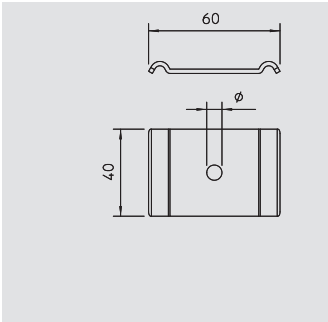
Accessories for side height 35, 55, 105 mm



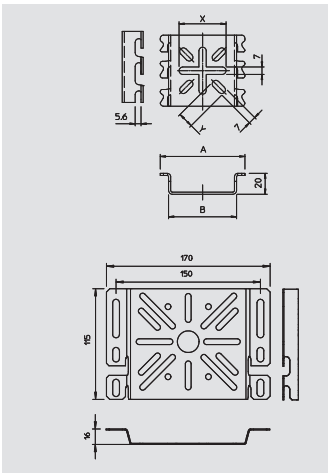
				Side holder
Type	For threaded rod	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SH M10 FS	M10	50	5.500	6015 33 6
SH M10 FT	M10	50	5.800	6015 33 8
ST Steel	FS Strip-galvanised	FT Hot-dip galvanised	/pc.	
Side holder for suspension of mesh cable trays.				



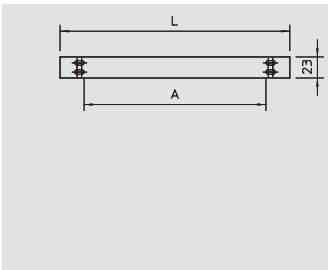
Side holder				
Type	Hole Ø	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
SH KAB 20 FS	20	20	21.000	6015 42 5
SH KAB 25 FS	25	20	21.000	6015 43 3
ST Steel	FS Strip-galvanised	/pc.		
Side holder with perforation for accepting cable glands.				



Clamping piece				
Type	Hole Ø mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GKS 50 07 FS	7	50	4.000	6015 26 3
GKS 50 11 FS	11	50	4.000	6015 27 6
GKS 50 07 FT	7	50	4.500	6015 27 1
GKS 50 FT	11	50	4.100	6015 27 8
ST Steel	FS Strip-galvanised	FT Hot-dip galvanised	/pc.	
Clamp for fastening mesh cable trays on the ground or on stand-off brackets of type DBL. Use on mesh cable trays with 50 x 100 mm grid only.				



Mounting plate							
Type	Dimension A	Dimension B	Dimension x	Dimension y	Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs	kg/100 pcs.	
MPG 65 FT	81	65	45	15	30	9.200	6006 48 6
MPG 90 FT	111	95	45	38	30	16.800	6006 48 7
ST Steel	FT	Hot-dip galvanised					/pc.
Mounting for screwless fastening on mesh cable trays.							
Type	Height	Width			Pack.	Weight	Item No.
	mm	mm			pcs	kg/100 pcs.	
MP UNI FS	115	170			40	13.300	7084 77 3
MP UNI DD	115	170			40	13.300	7085 11 4
ST Steel	FS	DD	Strip-galvanised Zinc-aluminium coated, double-dip				/pc.
Mounting plate, for fastening on the side rail of cable support systems.							
Please order the truss-head bolt, type FR5B 6 x 12, separately.							



Identification plate					
Type	Length	Dimension A	Pack.	Weight	Item No.
	mm	mm	pcs	kg/100 pcs.	
KS-GR150 VA4301	150	100	20	0.810	6017 70 2
KS-GR250 VA4301	250	200	20	1.350	6017 70 5
V2A Stainless steel, 1.4301					/pc.
Identification plate for screwless fastening on mesh cable trays.					
The identification plate is blank and can be used for individual labelling.					



Accessories for side height 35, 55, 105 mm

Cover, unperforated

Type	Width mm	Plate thickness mm	Length mm	Weight kg/100 m	Item No.
DRLU 050 FS	50	0.75	3,000	44.700	6052 05 6
DRLU 100 FS	100	0.75	3,000	74.200	6052 10 3
DRLU 150 FS	150	0.75	3,000	138.200	6052 15 3
DRLU 200 FS	200	1	3,000	177.400	6052 21 0
DRLU 300 FS	300	1	3,000	255.900	6052 30 7
DRLU 400 FS	400	1	3,000	334.400	6052 40 5
DRLU 500 FS	500	1.25	3,000	516.100	6052 51 2
DRLU 600 FS	600	1.25	3,000	614.300	6052 60 9

ST Steel **FS** Strip-galvanised /m

Cover for cable trays and mesh cable trays.

Take appropriate constructive protection measures if there are high wind speeds.

Cross beading from 500 mm width.

Type	Width mm	Plate thickness mm	Length mm	Weight kg/100 m	Item No.
DRLU 050 DD	50	0.75	3,000	44.700	6052 64 0
DRLU 100 DD	100	0.75	3,000	74.200	6052 64 3
DRLU 150 DD	150	0.75	3,000	138.200	6052 64 7
DRLU 200 DD	200	1	3,000	177.400	6052 65 0
DRLU 300 DD	300	1	3,000	255.900	6052 65 6
DRLU 400 DD	400	1	3,000	334.400	6052 66 2
DRLU 500 DD	500	1.25	3,000	516.200	6052 66 8
DRLU 600 DD	600	1.25	3,000	614.300	6052 67 4

ST Steel **DD** Zinc-aluminium coated, double-dip /m

Cover for cable trays and mesh cable trays.

Take appropriate constructive protection measures if there are high wind speeds.

Cross beading from 500 mm width.

Cover clamp, universal

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DKU 60 VA4310	60	0.650	6065 60 0
DKU 120 VA4310	120	0.650	6065 61 0

V2A Stainless steel, 1.4310 /100 pc.

Cover clamp for universal fastening of covers on cable trays, mesh cable trays and AZ small ducts.

Depending on the tray width, 4–6 cover clamps are required for secure fastening of a 3 m cover.

Mesh angle

Type	Length mm	Weight kg/100 m	Item No.
GW 40 80 FT	2,000	63.000	6003 81 8

ST Steel **FT** Hot-dip galvanised /m

Mesh angle for routing cables in steel girders.

Beam clamp

Type	Height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KL 20 FT	20	10	20.000	6003 85 0
KL 30 FT	30	10	21.500	6003 86 9

ST Steel **FT** Hot-dip galvanised /pc.

Beam clamp for fastening the mesh angle, type GW 40/80 to steel girders.

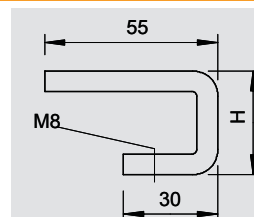
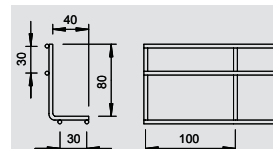
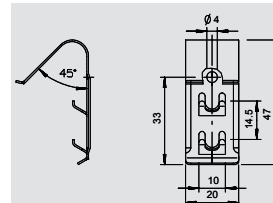
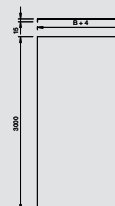
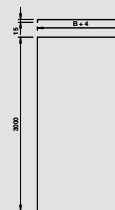
When selecting the beam clamp, please take the flange thickness of the steel girder into account.

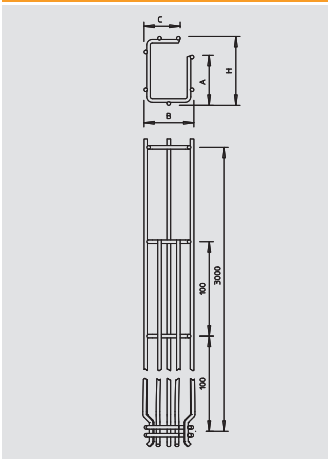
Bolt cutter

Type	Length mm	Cutting area mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GR BS	450	3–6.0	1	160.000	6017 70 0

ST Steel /pc.

Bolt cutter for cutting mesh cable trays.

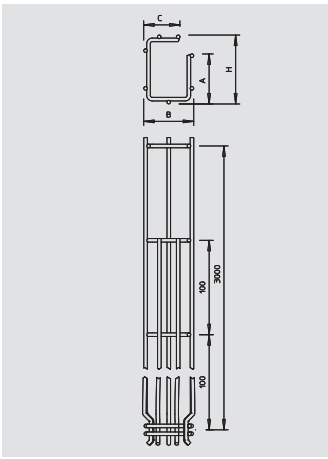
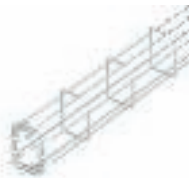




G mesh cable tray Magic, side height 50 mm

Type	Dimen- sion B mm	Dimen- sion H mm	Dimen- sion C mm	Dimen- sion A mm	Length mm	Weight kg/100 m	Item No.
G-GRM 50 50 G	55	55	33	40	3,000	67.100	6005 53 5
G-GRM 50 50 FT	55	55	33	40	3,000	68.600	6005 52 0

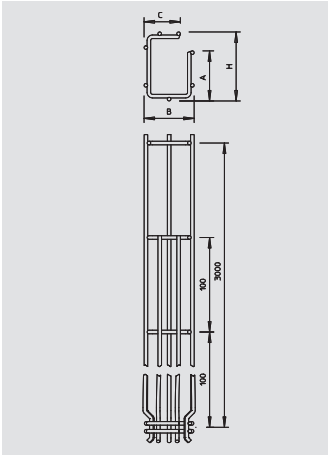
ST Steel G Electrogalvanised FT Hot-dip galvanised /m
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.



G mesh cable tray Magic, side height 75 mm

Type	Dimen- sion B mm	Dimen- sion H mm	Dimen- sion C mm	Dimen- sion A mm	Length mm	Weight kg/100 m	Item No.
G-GRM 75 50 G	53	73	40	53	3,000	79.900	6005 53 8
G-GRM 75 50 FT	53	73	40	53	3,000	81.700	6005 52 3

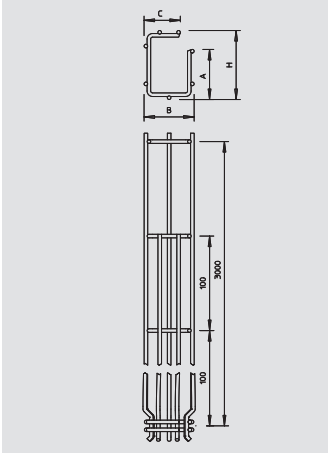
ST Steel G Electrogalvanised FT Hot-dip galvanised /m
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.



G mesh cable tray Magic, side height 125 mm

Type	Dimen- sion B mm	Dimen- sion H mm	Dimen- sion C mm	Dimen- sion A mm	Length mm	Weight kg/100 m	Item No.
G-GRM 125 75 G	75	125	40	96	3,000	109.000	6005 54 1
G-GRM 125 75 FT	75	125	40	96	3,000	111.500	6005 52 6

ST Steel G Electrogalvanised FT Hot-dip galvanised /m
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.



G mesh cable tray Magic, side height 150 mm

Type	Dimen- sion B mm	Dimen- sion H mm	Dimen- sion C mm	Dimen- sion A mm	Length mm	Weight kg/100 m	Item No.
G-GRM 150 100 G	100	155	70	120	3,000	128.000	6005 54 4
G-GRM 150 100 FT	100	155	70	120	3,000	130.900	6005 52 9

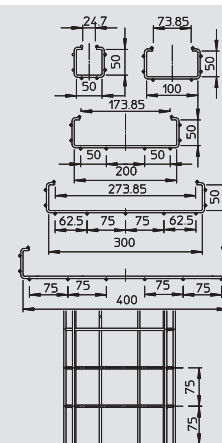
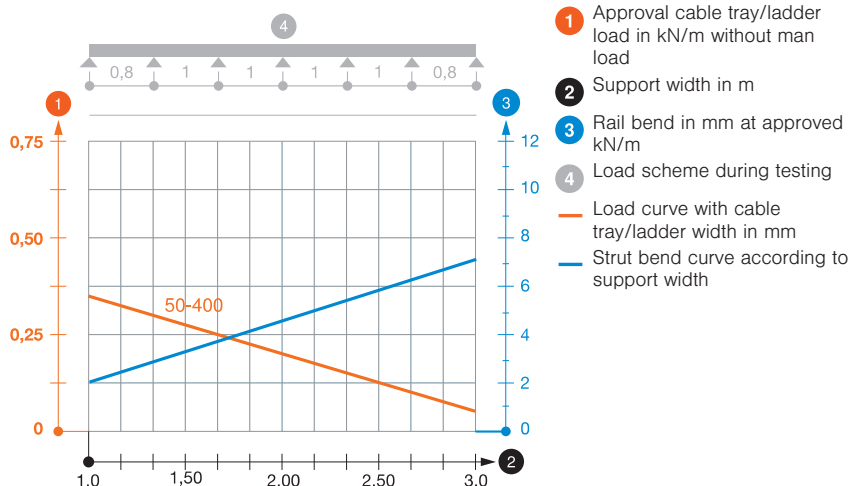
ST Steel G Electrogalvanised FT Hot-dip galvanised /m
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.





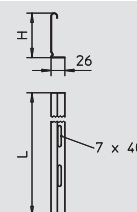
Type	Width	Wire Ø	Length	Useful cross-section	Appr. load:			Weight	Item No.
	mm	mm	mm	cm²	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m		
CGR 50 50 FT	50	4.5	3,000	13	0.32	0.25	0.18	132.000	6017 42 8
CGR 50 100 FT	100	4.5	3,000	34	0.32	0.25	0.18	140.000	6017 43 6
CGR 50 200 FT	200	4.5	3,000	75	0.32	0.25	0.18	180.000	6017 44 4
CGR 50 300 FT	300	4.5	3,000	116	0.32	0.25	0.18	210.000	6017 45 2
CGR 50 400 FT	400	4.5	3,000	157	0.32	0.25	0.18	240.000	6017 46 0

Load diagram, C mesh cable tray, type CGR 50



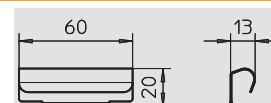
Type	Dimension H mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 30 FS	30	3,000	45	0.000	6062 05 0
TSG 30 DD	30	3,000	45	0.000	6062 31 4
ST Steel	FS Strip-galvanised	DD Zinc-aluminium coated, double-dip			
/m					

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



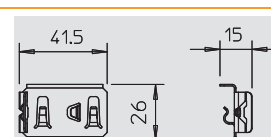
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
TSGV VA4310	10	1.000	6067 97 0
V2A Stainless steel, 1.4310			/pc.

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



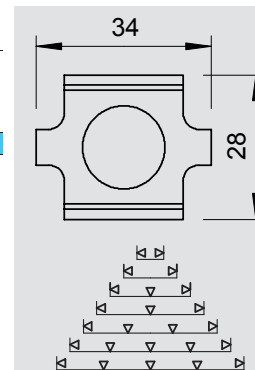
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KS GR VA4310	30	0.830	6062 28 2
V2A Stainless steel, 1.4310			/100 pc.

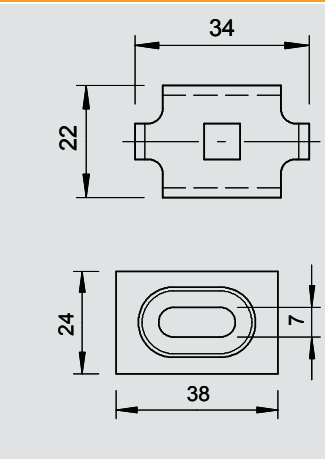
Clamping piece for fastening barrier strips in mesh cable trays.



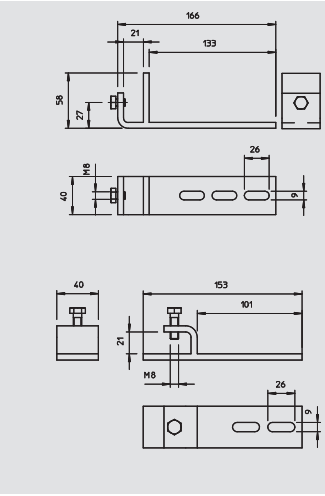
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
GSV 34 FT	25	3.000	6016 63 4
ST Steel FT Hot-dip galvanised			/pc.

Screwed version of joint connector for mesh cable trays.
Including FRS M6 x 20 bolt with nut-and-washer assembly.





Clamping piece			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
GKS 34 FT	100	2.000	6016 82 0
ST Steel FT Hot-dip galvanised			/pc.
Clamp for fastening mesh cable trays to wall or support brackets. Including FRS M6 x 20 bolt with nut-and-washer assembly.			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
GKT 38 FT	100	2.400	6017 06 1
ST Steel FT Hot-dip galvanised			/pc.
Clamping piece for fastening barrier strip in mesh cable trays. Including FRS M6 x 20 bolt with nut-and-washer assembly.			



Beam clamp

Type	Dimen- sion B mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BFK 132 58 FT	132	99	25	39.000	6003 88 0
BFK 166 58 20 FT	166	133	20	45.000	6003 88 8
ST Steel	FT	Hot-dip galvanised			/pc.

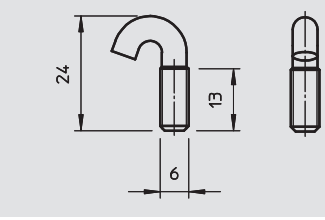
Beam clamp for clamping on the steel girder.

The cable support system attached to the beam clamp is vertical routing.

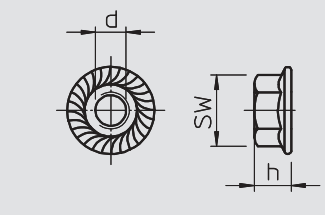
Type	Dimen- sion B mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BFK 153 33 FT	153	101	25	37.000	6003 88 4
BFK 187 33 FT	187	135	20	43.000	6003 89 2
ST Steel	FT	Hot-dip galvanised			/pc.

Beam clamp for clamping on the steel girder.

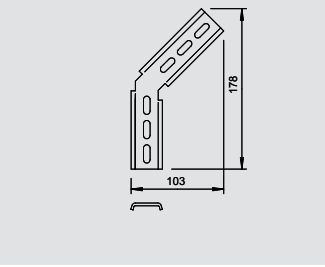
The cable support system attached to the beam clamp is horizontal routing.



Hook screw				
Type	Thread	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
HS M6 VA4567	M6	100	0.500	1154 99 0
V2A	Stainless steel, 1.4567			/100 pc.
Hook screw for fastening mesh cable trays on the bracket or the beam clamp, type BFK.				



Combination nut						
Type	Dimen- sion d	Dimen- sion h	SW	Pack.	Weight	Item No.
	mm	mm	mm	pcs	kg/100 pcs.	
KM M6 VA4301	6	6	10	100	0.315	6408 96 6
V2A	Stainless steel, 1.4301					/100 pc.
Nut with pressed washer.						



45° installation profile			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
MW 45 SL10 FT	50	21.000	6017 32 0
ST Steel FT Hot-dip galvanised			/pc.
45° installation profile, vertical, for C mesh cable tray and GR-Magic mesh cable tray with a side height of 55 mm. Each with two clamps of type KS 23/35.			



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Mesh cable tray systems



C mesh cable tray



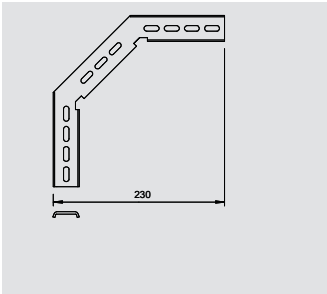
90° installation profile

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
MW 90 SL17 FT	50	27.000	6017 34 7
MW 90 SL23 FT	25	35.400	6017 35 5

ST Steel
 FT Hot-dip galvanised
 /pc.

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

Each with two clamps of type KS 23/35.



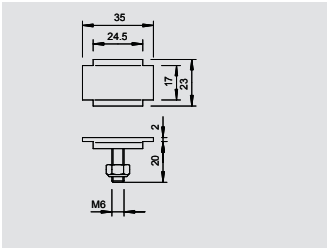
Clamping piece

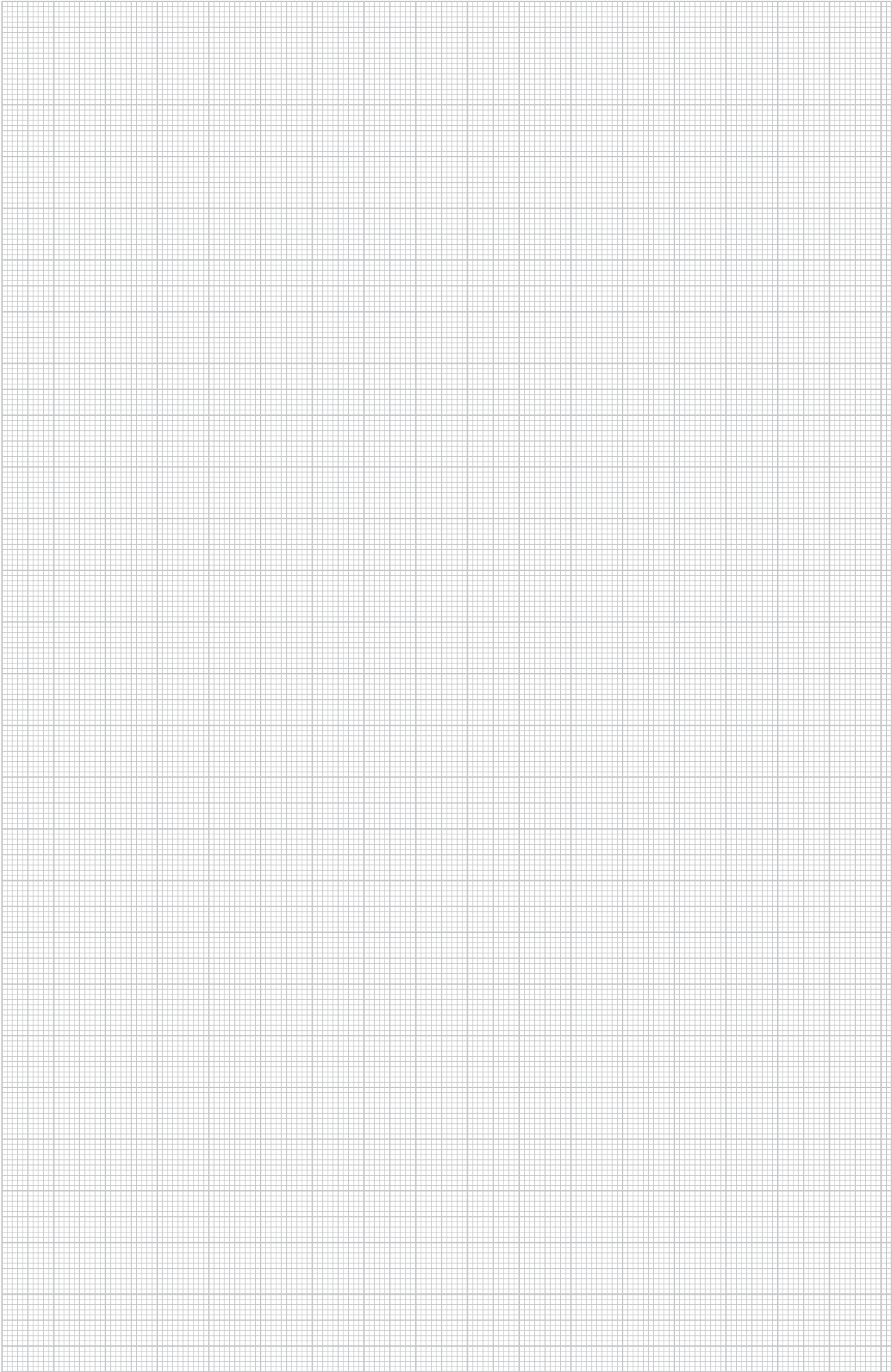
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KS 23 35 FT	100	2.015	6015 17 4

ST Steel
 FT Hot-dip galvanised
 /pc.

Clamp for installation profile, type MW 45 and MW 90.

Including self-locking M6 hexagonal nut.



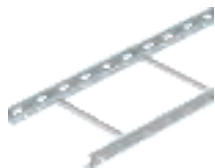


Cable ladder systems

	Side rail height 45 mm	Normal rung, ladder length 3.0 m, bar thickness 1.25 mm	262
		Normal rung, ladder length 6.0 m, bar thickness 1.25 mm	
		Normal rung, ladder length 3.0 m, bar thickness 2.0 mm	263
		Normal rung, ladder length 6.0 m, bar thickness 2.0 mm	
		Connector, side rail height 45 mm	263
		Fittings, side rail height 45 mm	265
	Side rail height 60 mm	Normal rung, ladder length 3.0 m, bar thickness 1.5 mm	266
		Normal rung, ladder length 6.0 m, bar thickness 1.5 mm	
		Reinforced rung, ladder length 3.0 m, bar thickness 1.5 mm	267
		Reinforced rung, ladder length 6.0 m, bar thickness 1.5 mm	
		Connector, side rail height 60 mm	267
		Fittings, side rail height 60 mm	268
	Side rail height 110 mm	Reinforced rung, ladder length 3.0 m, strut thickness 1.5 mm	271
		Reinforced rung, ladder length 6.0 m, strut thickness 1.5 mm	
		Connector, side rail height 110 mm	271
		Fittings, side rail height 110 mm	273
	Accessories for side rail height 45, 60, 110 mm	Clamping pieces	274
		Support	
		Insert plates	275
		Covers	275



Side rail height 45 mm



Cable ladder LG 45

Type	Width mm	Rail thickness mm	Length mm	Useful cross- section cm ²	Appr. load:				Weight kg/100 m	Item No.
					1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m		
LG 420 NS 3000FS	200	1.25	3,000	68	1.8	1.4	1.0	0.55	188.300	6200 50 8
LG 430 NS 3000FS	300	1.25	3,000	103	1.8	1.4	1.0	0.55	202.500	6200 51 1
LG 440 NS 3000FS	400	1.25	3,000	138	1.8	1.4	1.0	0.55	216.700	6200 51 4
LG 450 NS 3000FS	500	1.25	3,000	173	1.8	1.4	1.0	0.55	243.700	6200 51 7
LG 460 NS 3000FS	600	1.25	3,000	208	1.8	1.4	1.0	0.55	260.800	6200 52 0
LG 420 NS 6000FS	200	1.25	6,000	68	1.8	1.4	1.0	0.55	188.500	6200 58 3
LG 430 NS 6000FS	300	1.25	6,000	103	1.8	1.4	1.0	0.55	205.500	6200 58 6
LG 440 NS 6000FS	400	1.25	6,000	138	1.8	1.4	1.0	0.55	216.800	6200 58 9
LG 450 NS 6000FS	500	1.25	6,000	173	1.8	1.4	1.0	0.55	243.800	6200 59 2
LG 460 NS 6000FS	600	1.25	6,000	208	1.8	1.4	1.0	0.55	260.800	6200 59 5
LG 420 NS FT	200	1.25	6,000	68	1.8	1.4	1.0	0.55	203.000	6200 60 5
LG 430 NS FT	300	1.25	6,000	103	1.8	1.4	1.0	0.55	218.000	6200 60 8
LG 440 NS FT	400	1.25	6,000	138	1.8	1.4	1.0	0.55	233.000	6200 61 1
LG 450 NS FT	500	1.25	6,000	173	1.8	1.4	1.0	0.55	261.300	6200 61 4
LG 460 NS FT	600	1.25	6,000	208	1.8	1.4	1.0	0.55	278.000	6200 61 7

ST Steel

FS Strip-galvanised

FT Hot-dip galvanised

/m

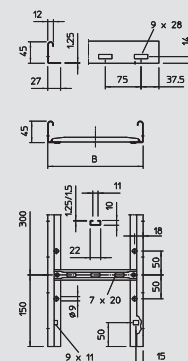
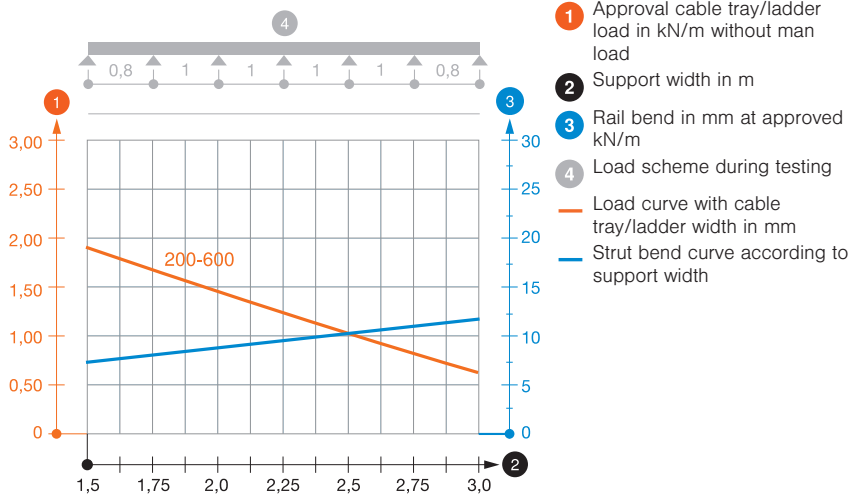
Cable ladder with perforated side rail of side height 45 mm with riveted C profile rungs, open in an upwards direction.

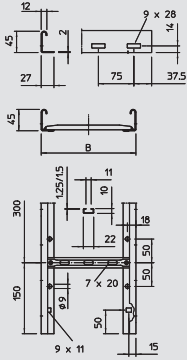
Magnetic shield insulation without cover 10 dB, with cover 15 dB.

The cable ladder is shipped folded up.

You can find the appropriate U clamp of type 2056/N in the vertical ladder systems chapter.

Load diagram, cable ladder, type LG 45 NS





Cable ladder SLG 45



Type	Width mm	Rail thickness mm	Length mm	Useful cross- section cm ²	Appr. load:				Weight kg/100 m	Item No.
					1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m		
SLG 420 NS 3 FS	200	2	3,000	68	2.75	2.0	1.0	0.55	281.800	6200 54 0
SLG 430 NS 3 FS	300	2	3,000	103	2.75	2.0	1.0	0.55	295.800	6200 54 3
SLG 440 NS 3 FS	400	2	3,000	138	2.75	2.0	1.0	0.55	310.200	6200 54 6
SLG 450 NS 3 FS	500	2	3,000	173	2.75	2.0	1.0	0.55	337.200	6200 54 9
SLG 460 NS 3 FS	600	2	3,000	208	2.75	2.0	1.0	0.55	354.200	6200 55 2
SLG 420 NS 6 FS	200	2	6,000	68	2.75	2.0	1.0	0.55	281.800	6200 62 3
SLG 430 NS 6 FS	300	2	6,000	103	2.75	2.0	1.0	0.55	295.800	6200 62 6
SLG 440 NS 6 FS	400	2	6,000	138	2.75	2.0	1.0	0.55	310.200	6200 62 9
SLG 450 NS 6 FS	500	2	6,000	173	2.75	2.0	1.0	0.55	337.200	6200 63 2
SLG 460 NS 6 FS	600	2	6,000	208	2.75	2.0	1.0	0.55	354.200	6200 63 5
SLG 420 NS FT	200	2	6,000	68	2.75	2.0	1.0	0.55	295.700	6200 64 6
SLG 430 NS FT	300	2	6,000	103	2.75	2.0	1.0	0.55	310.700	6200 64 9
SLG 440 NS FT	400	2	6,000	138	2.75	2.0	1.0	0.55	325.700	6200 65 2
SLG 450 NS FT	500	2	6,000	173	2.75	2.0	1.0	0.55	354.000	6200 65 5
SLG 460 NS FT	600	2	6,000	208	2.75	2.0	1.0	0.55	372.300	6200 65 8

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /m

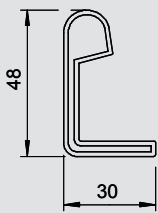
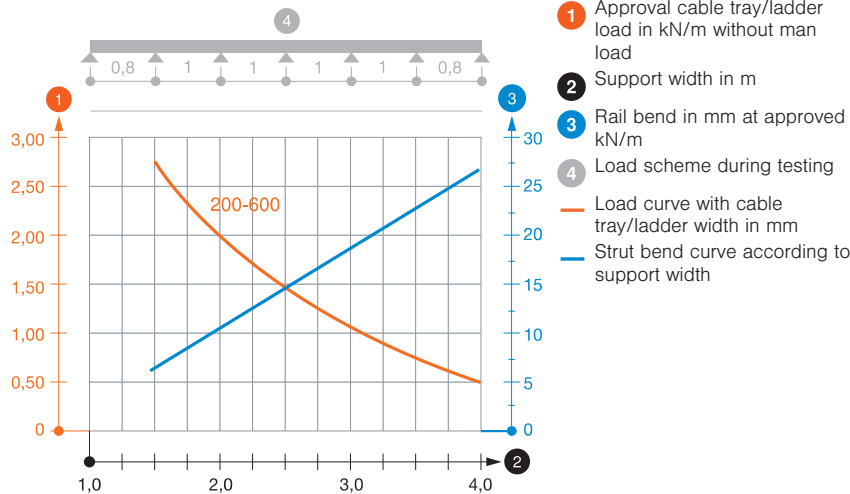
Cable ladder with perforated side rail of side height 45 mm with riveted C profile rungs, open in an upwards direction.

Magnetic shield insulation without cover 10 dB, with cover 15 dB.

The cable ladder is shipped folded up.

You can find the appropriate U clamp of type 2056N in the vertical ladder systems chapter.

Load diagram, cable ladder, type SLG 45 NS

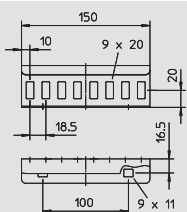


Protective cap

Type	Colour	Pack. pair	Weight kg/100 pairs	Item No.
SKH 45 OR	Pastel orange	40	0.800	6222 50 2

PE Polyethylene /pair

Protective cap to cover cable ladder ends of side height 45 mm.



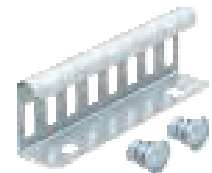
Straight connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LVG 45 FS	45	20	16.000	6200 83 2
LVG 45 FT	45	20	15.200	6200 83 5

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Straight connector as external connector to connect cable ladders and fittings with a side height of 45 mm and continuous side perforation.

The screw fastening ensures the continuity of the equipotential bonding.



Side rail height 45 mm

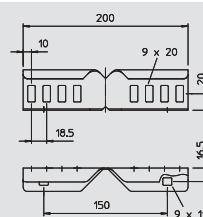


Angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LWVG 45 FS	45	20	17.600	6200 88 2
LWVG 45 VA4301	45	20	17.600	6200 88 5

ST Steel **V2A** Stainless steel, 1.4301 **FS** Strip-galvanised Bright /pc.
Angle connector as external connector to join cable ladders and fittings with a side height of 45 mm and continuous rail perforation.

The screw fastening ensures the continuity of the equipotential bonding.

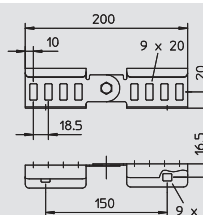


Articulated connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LGVG 45 FS	45	10	22.000	6200 92 6
LGVG 45 FT	45	10	24.000	6200 92 9

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.
Adjustable connector as external connector to join cable ladders and fittings with a side height of 45 mm and continuous rail perforation. Angle can be adjusted vertically.

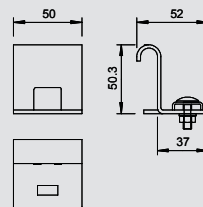
The screw fastening ensures the continuity of the equipotential bonding.



Connection piece

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LAS 45 FS	10	13.000	6221 30 0
LAS 45 FT	10	13.000	6221 31 9

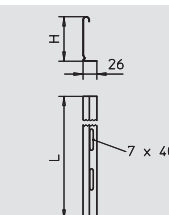
ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.
Connector for creation of branches at the same height at a later date.
To increase the cable bracket, use a combination of corner plates of type LEB.



Barrier strip

Type	Dimen- sion H mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
TSG 30 FS	30	3,000	45	0.000	6062 05 0
TSG 30 DD	30	3,000	45	0.000	6062 31 4

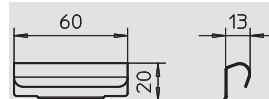
ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /m
Barrier strip for separation of cables of different voltages or functions.



Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1.000	6067 97 0

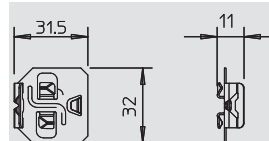
V2A Stainless steel, 1.4310 /pc.
Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.



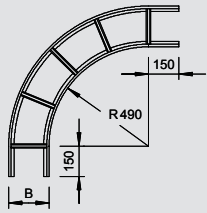
Clamping piece for barrier strip fastening

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KL VA4310	30	0.512	6062 28 4

V2A Stainless steel, 1.4310 /100 pc.
Clamping piece for screwless fastening of barrier strips in cable ladders.



Side rail height 45 mm

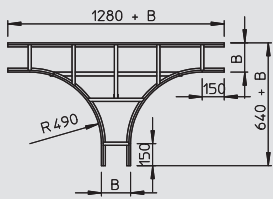


90° bend

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LBI 90 420 FS	200	1	238.000	6203 02 7
LBI 90 430 FS	300	1	286.000	6203 03 5
LBI 90 440 FS	400	1	316.000	6203 04 3
LBI 90 450 FS	500	1	376.000	6203 05 1
LBI 90 460 FS	600	1	446.000	6203 07 8
LBI 90 420 FT	200	1	251.000	6203 12 4
LBI 90 430 FT	300	1	302.000	6203 13 2
LBI 90 440 FT	400	1	333.000	6203 14 0
LBI 90 450 FT	500	1	396.000	6203 15 9
LBI 90 460 FT	600	1	470.000	6203 16 7

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

90° bend, horizontal, for all cable ladder types of 45 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

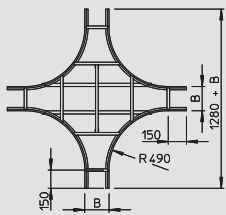


Horizontal tee

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LT 420 FS	200	1	437.000	6205 53 4
LT 430 FS	300	1	513.000	6205 54 2
LT 440 FS	400	1	570.000	6205 55 0
LT 450 FS	500	1	637.000	6205 56 9
LT 460 FS	600	1	731.000	6205 57 7
LT 420 FT	200	1	460.000	6205 62 3
LT 430 FT	300	1	540.000	6205 63 1
LT 440 FT	400	1	600.000	6205 65 8
LT 450 FT	500	1	671.000	6205 66 6
LT 460 FT	600	1	770.000	6205 67 4

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Horizontal tee, for all cable ladder types of 45 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

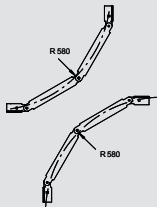


Horizontal cross-over

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LK 420 FT	200	1	640.000	6206 12 3
LK 430 FT	300	1	750.000	6206 13 1
LK 440 FT	400	1	820.000	6206 15 8
LK 450 FT	500	1	900.000	6206 16 6
LK 460 FT	600	1	1,020.000	6206 17 4

ST Steel **FT** Hot-dip galvanised /pc.

Horizontal cross-over for all cable ladder types of 45 mm side height.
Connectors should be ordered separately and in the appropriate quantity.



90° adjustable vertical bend

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LGBV 420 FS	200	1	165.000	6205 03 8
LGBV 430 FS	300	1	186.000	6205 04 6
LGBV 440 FS	400	1	202.000	6205 05 4
LGBV 450 FS	500	1	233.000	6205 06 2
LGBV 460 FS	600	1	252.000	6205 07 0
LGBV 420 FT	200	1	174.000	6205 12 7
LGBV 430 FT	300	1	196.000	6205 13 5
LGBV 440 FT	400	1	213.000	6205 14 3
LGBV 450 FT	500	1	246.000	6205 15 1
LGBV 460 FT	600	1	266.000	6205 17 8

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

90° adjustable vertical bend, for all cable ladder types with a side height of 45 mm.
The fitting is shipped in an unmounted state including adjustable connectors and the appropriate bolts.



Side rail height 60 mm



Cable ladder LG 60 NS

Type	Width mm	Rail thickness mm	Length mm	Appr. load:				Weight kg/100 m	Item No.
				2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m		
LG 620 NS 3000FS	200	1.5	3,000	2.25	1.5	1.0	0.4	253.800	6208 50 6
LG 630 NS 3000FS	300	1.5	3,000	2.25	1.5	1.0	0.4	268.000	6208 50 9
LG 640 NS 3000FS	400	1.5	3,000	2.25	1.5	1.0	0.4	282.200	6208 51 2
LG 650 NS 3000FS	500	1.5	3,000	2.25	1.5	1.0	0.4	308.800	6208 51 5
LG 660 NS 3000FS	600	1.5	3,000	2.25	1.5	1.0	0.4	325.500	6208 51 8
LG 620 NS 6000FS	200	1.5	6,000	2.25	1.5	1.0	0.4	253.800	6208 58 1
LG 630 NS 6000FS	300	1.5	6,000	2.25	1.5	1.0	0.4	268.000	6208 58 4
LG 640 NS 6000FS	400	1.5	6,000	2.25	1.5	1.0	0.4	282.200	6208 58 7
LG 650 NS 6000FS	500	1.5	6,000	2.25	1.5	1.0	0.4	308.800	6208 59 0
LG 660 NS 6000FS	600	1.5	6,000	2.25	1.5	1.0	0.4	325.500	6208 59 3
LG 620 NS 6000FT	200	1.5	6,000	2.25	1.5	1.0	0.4	270.000	6208 60 3
LG 630 NS 6000FT	300	1.5	6,000	2.25	1.5	1.0	0.4	285.000	6208 60 6
LG 640 NS 6000FT	400	1.5	6,000	2.25	1.5	1.0	0.4	300.000	6208 60 9
LG 650 NS 6000FT	500	1.5	6,000	2.25	1.5	1.0	0.4	328.300	6208 61 2
LG 660 NS 6000FT	600	1.5	6,000	2.25	1.5	1.0	0.4	345.800	6208 61 5

ST Steel

FS Strip-galvanised

FT Hot-dip galvanised

/m

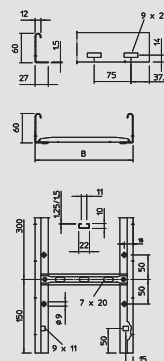
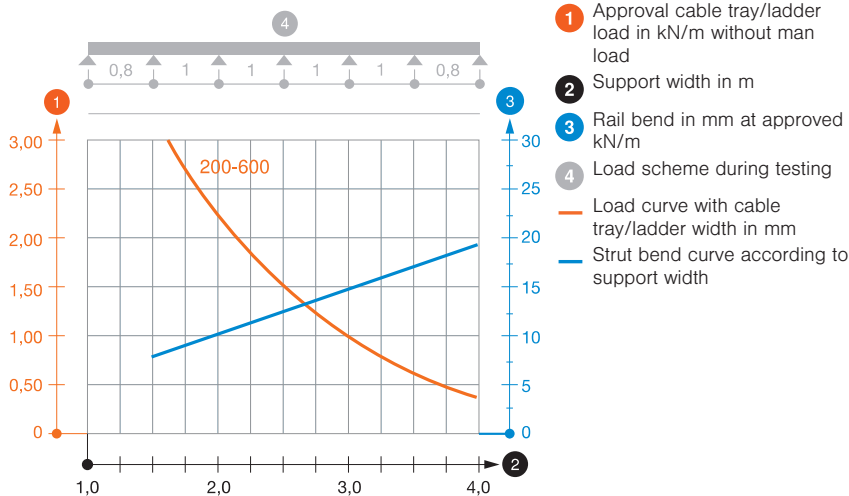
Cable ladder with perforated side rail of side height 60 mm with riveted C profile rungs, open in an upwards direction (NS version).

Magnetic shield insulation without cover 10 dB, with cover 15 dB.

The cable ladder is shipped folded up.

You can find the appropriate U clamp of type 2056N in the vertical ladder systems chapter.

Load diagram, LG 60 NS





Type	Width	Rail thickness	Length	Appr. load:				Weight	Item No.
	mm	mm		2.0 m	2.5 m	3.0 m	4.0 m		
	mm	mm	mm	kN/m	kN/m	kN/m	kN/m	kg/100 m	
LG 620 VS 3000FS	200	1.5	3,000	2.0	1.5	1.15	0.45	281.700	6208 53 8
LG 630 VS 3000FS	300	1.5	3,000	2.0	1.5	1.15	0.45	306.000	6208 54 1
LG 640 VS 3000FS	400	1.5	3,000	2.0	1.5	1.15	0.45	330.000	6208 54 4
LG 650 VS 3000FS	500	1.5	3,000	2.0	1.5	1.15	0.45	354.300	6208 54 7
LG 660 VS 3000FS	600	1.5	3,000	2.0	1.5	1.15	0.45	378.300	6208 55 0
LG 620 VS 3000FT	200	1.5	3,000	2.0	1.5	1.15	0.45	298.300	6208 56 2
LG 630 VS 3000FT	300	1.5	3,000	2.0	1.5	1.15	0.45	324.300	6208 56 6
LG 640 VS 3000FT	400	1.5	3,000	2.0	1.5	1.15	0.45	350.000	6208 57 0
LG 650 VS 3000FT	500	1.5	3,000	2.0	1.5	1.15	0.45	376.000	6208 57 4
LG 660 VS 3000FT	600	1.5	3,000	2.0	1.5	1.15	0.45	401.700	6208 57 8
LG 620 VS 6000FS	200	1.5	6,000	2.0	1.5	1.15	0.45	273.800	6208 62 7
LG 630 VS 6000FS	300	1.5	6,000	2.0	1.5	1.15	0.45	298.000	6208 63 0
LG 640 VS 6000FS	400	1.5	6,000	2.0	1.5	1.15	0.45	322.200	6208 63 3
LG 650 VS 6000FS	500	1.5	6,000	2.0	1.5	1.15	0.45	346.300	6208 63 6
LG 660 VS 6000FS	600	1.5	6,000	2.0	1.5	1.15	0.45	370.500	6208 63 9
LG 620 VS 6000FT	200	1.5	6,000	2.0	1.5	1.15	0.45	290.000	6208 65 0
LG 630 VS 6000FT	300	1.5	6,000	2.0	1.5	1.15	0.45	315.800	6208 65 3
LG 640 VS 6000FT	400	1.5	6,000	2.0	1.5	1.15	0.45	334.200	6208 65 6
LG 650 VS 6000FT	500	1.5	6,000	2.0	1.5	1.15	0.45	367.500	6208 65 9
LG 660 VS 6000FT	600	1.5	6,000	2.0	1.5	1.15	0.45	393.300	6208 66 1

ST Steel FS Strip-galvanised FT Hot-dip galvanised /m

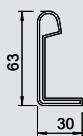
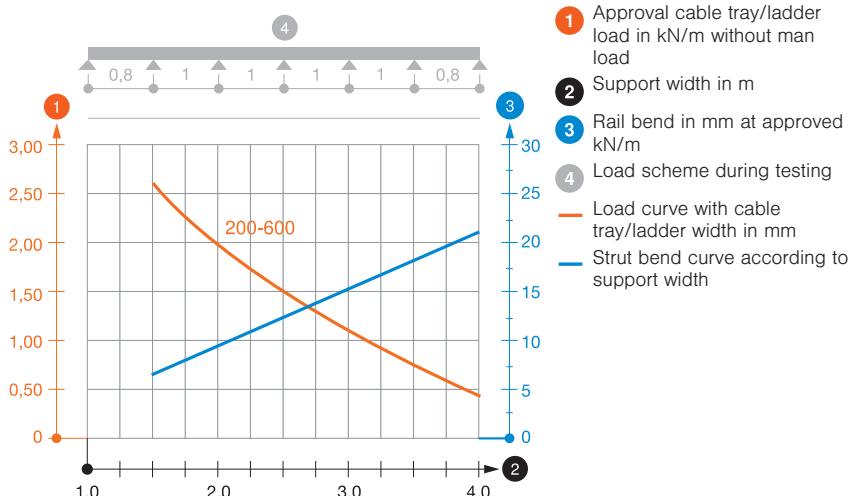
Cable ladder with perforated side rail of side height 60 mm with riveted C profile rungs, open in an upwards direction (VS version).

Magnetic shield insulation without cover 10 dB, with cover 15 dB.

The cable ladder is shipped folded up.

You can find the appropriate U clamp of type 2056 in the vertical ladder systems chapter.

Load diagram, LG 60 VS

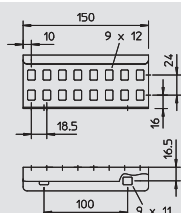


Protective cap

Type	Colour	Pack. pair	Weight kg/100 pairs	Item No.
SKH 60 OR	Pastel orange	40	1.100	6222 53 7

PE	Polyethylene	/pair

Protective cap to cover cable ladder ends of side height 60 mm.



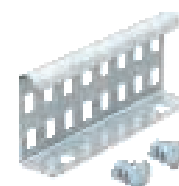
Straight connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LVG 60 FS	60	20	20.000	6208 84 0
LVG 60 FT	60	20	22.000	6208 84 3

ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.

Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.



Side rail height 60 mm



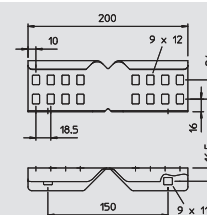
Angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LWVG 60 FS	60	20	24.000	6208 89 5
LWVG 60 VA4301	60	20	24.000	6208 89 8

ST Steel **V2A** Stainless steel, 1.4301 **FS** Strip-galvanised Bright /pc.

Angle connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.



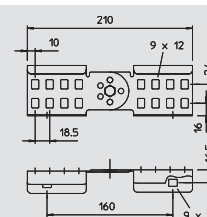
Articulated connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LGVG 60 FS	60	10	27.000	6208 94 1
LGVG 60 FT	60	10	29.000	6208 94 4

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Adjustable connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation. Angle can be adjusted vertically.

The bolt fastening ensures the continuity of the equipotential bonding.



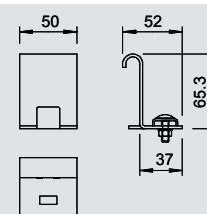
Connection piece

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LAS 60 FS	10	15.000	6221 35 1
LAS 60 FT	10	15.000	6221 37 8

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Connector for creation of branches at the same height at a later date.

To increase the cable supporting surface, use a conjunction of corner plates of type LEB.

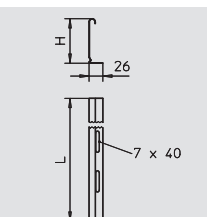


Barrier strip

Type	Dimension H mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 45 FS	45	3,000	45	0.000	6062 03 3
TSG 45 DD	45	3,000	45	0.000	6062 32 1

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /m

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

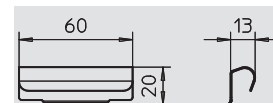


Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1.000	6067 97 0

V2A Stainless steel, 1.4310 /pc.

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



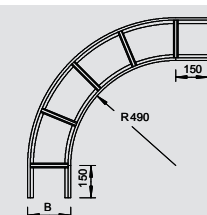
90° bend

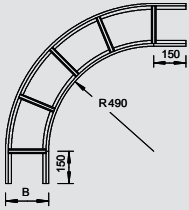
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LBI 90 620 NS FS	200	1	297.000	6211 03 8
LBI 90 630 NS FS	300	1	351.000	6211 04 6
LBI 90 640 NS FS	400	1	404.000	6211 05 4
LBI 90 650 NS FS	500	1	470.000	6211 06 2
LBI 90 660 NS FS	600	1	544.000	6211 07 0
LBI 90 620 NS FT	200	1	313.000	6211 12 7
LBI 90 630 NS FT	300	1	370.000	6211 13 5
LBI 90 640 NS FT	400	1	426.000	6211 14 3
LBI 90 650 NS FT	500	1	495.000	6211 15 1
LBI 90 660 NS FT	600	1	573.000	6211 17 8

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

90° bend, horizontal, for cable ladders with NS rungs and a side height of 60 mm.

Connectors should be ordered separately and in the appropriate quantity.





90° bend

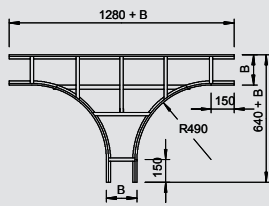


Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LBI 90 620 VS FS	200	1	358.000	6211 22 4
LBI 90 630 VS FS	300	1	412.000	6211 23 2
LBI 90 640 VS FS	400	1	497.000	6211 24 0
LBI 90 650 VS FS	500	1	558.000	6211 25 9
LBI 90 660 VS FS	600	1	664.000	6211 26 7
LBI 90 620 VS FT	200	1	380.000	6211 32 1
LBI 90 630 VS FT	300	1	437.000	6211 34 8
LBI 90 640 VS FT	400	1	526.000	6211 35 6
LBI 90 650 VS FT	500	1	592.000	6211 36 4
LBI 90 660 VS FT	600	1	704.000	6211 37 2

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

90° bend, horizontal, for cable ladders with VS rungs and a side height of 60 mm.

Connectors should be ordered separately and in the appropriate quantity.



Horizontal tee

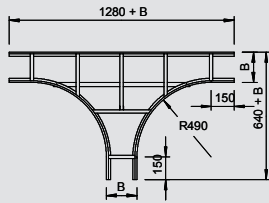


Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LT 620 NS FS	200	1	583.000	6213 52 9
LT 630 NS FS	300	1	662.000	6213 53 7
LT 640 NS FS	400	1	731.000	6213 54 5
LT 650 NS FS	500	1	836.000	6213 55 3
LT 660 NS FS	600	1	895.000	6213 56 1
LT 620 NS FT	200	1	614.000	6213 63 4
LT 630 NS FT	300	1	697.000	6213 64 2
LT 640 NS FT	400	1	770.000	6213 65 0
LT 650 NS FT	500	1	880.000	6213 66 9
LT 660 NS FT	600	1	943.000	6213 67 7

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Horizontal tee, for cable ladders with NS rungs and a side height of 60 mm.

Connectors should be ordered separately and in the appropriate quantity.

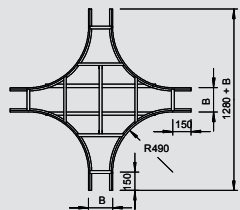


Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LT 620 VS FS	200	1	677.000	6213 72 3
LT 630 VS FS	300	1	789.000	6213 73 1
LT 640 VS FS	400	1	871.000	6213 75 8
LT 650 VS FS	500	1	952.000	6213 76 6
LT 660 VS FS	600	1	1,094.000	6213 77 4
LT 620 VS FT	200	1	718.000	6213 82 0
LT 630 VS FT	300	1	837.000	6213 83 9
LT 640 VS FT	400	1	924.000	6213 84 7
LT 650 VS FT	500	1	1,009.000	6213 85 5
LT 660 VS FT	600	1	1,160.000	6213 86 3

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

T piece, horizontal, for cable ladders with VS rungs and a side height of 60 mm.

Connectors should be ordered separately and in the appropriate quantity.



Horizontal cross-over



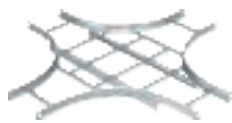
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LK 620 NS FS	200	1	798.000	6214 02 9
LK 630 NS FS	300	1	950.000	6214 03 7
LK 640 NS FS	400	1	978.000	6214 04 5
LK 650 NS FS	500	1	1,064.000	6214 05 3
LK 660 NS FS	600	1	1,187.000	6214 06 1
LK 620 NS FT	200	1	840.000	6214 13 4
LK 630 NS FT	300	1	1,000.000	6214 14 2
LK 640 NS FT	400	1	1,030.000	6214 15 0
LK 650 NS FT	500	1	1,185.000	6214 16 9
LK 660 NS FT	600	1	1,250.000	6214 17 7

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Horizontal cross-over for cable ladders with NS rungs and a side height of 60 mm.

Connectors should be ordered separately and in the appropriate quantity.

Side rail height 60 mm

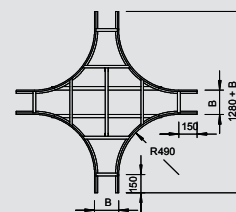


Horizontal cross-over

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
LK 620 VS FS	200	1	935.000	6214 22 3
LK 630 VS FS	300	1	1,080.000	6214 23 1
LK 640 VS FS	400	1	1,175.000	6214 25 8
LK 650 VS FS	500	1	1,271.000	6214 26 6
LK 660 VS FS	600	1	1,445.000	6214 27 4
LK 620 VS FT	200	1	993.000	6214 32 0
LK 630 VS FT	300	1	1,145.000	6214 33 9
LK 640 VS FT	400	1	1,247.000	6214 34 7
LK 650 VS FT	500	1	1,348.000	6214 35 5
LK 660 VS FT	600	1	1,533.000	6214 36 3

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Horizontal cross-over for cable ladders with VS rungs and a side height of 60 mm.
Connectors should be ordered separately and in the appropriate quantity.



90° adjustable vertical bend

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
LGBV 620 NS FS	200	1	217.000	6213 02 2
LGBV 630 NS FS	300	1	238.000	6213 03 0
LGBV 640 NS FS	400	1	254.000	6213 04 9
LGBV 650 NS FS	500	1	285.000	6213 05 7
LGBV 660 NS FS	600	1	304.000	6213 06 5
LGBV 620 NS FT	200	1	229.000	6213 13 8
LGBV 630 NS FT	300	1	251.000	6213 14 6
LGBV 640 NS FT	400	1	268.000	6213 15 4
LGBV 650 NS FT	500	1	315.000	6213 16 2
LGBV 660 NS FT	600	1	321.000	6213 17 0

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

90° adjustable vertical bend, for cable ladders with NS rung and a side height of 60 mm.

The fitting is shipped in an unmounted state including adjustable connectors and the appropriate bolts.

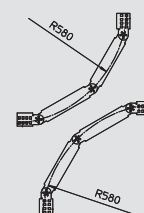
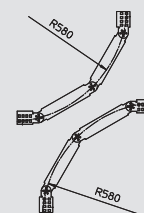


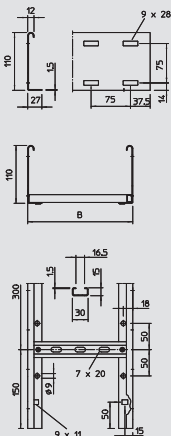
Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
LGBV 620 VS FS	200	1	262.000	6213 22 7
LGBV 630 VS FS	300	1	289.000	6213 23 5
LGBV 640 VS FS	400	1	317.000	6213 24 3
LGBV 650 VS FS	500	1	344.000	6213 25 1
LGBV 660 VS FS	600	1	372.000	6213 27 8
LGBV 620 VS FT	200	1	276.000	6213 32 4
LGBV 630 VS FT	300	1	305.000	6213 33 2
LGBV 640 VS FT	400	1	334.000	6213 34 0
LGBV 650 VS FT	500	1	363.000	6213 35 9
LGBV 660 VS FT	600	1	392.000	6213 36 7

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

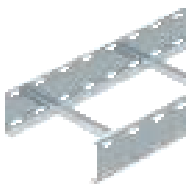
90° adjustable vertical bend, for cable ladders with VS rung and a side height of 60 mm.

The fitting is shipped in an unmounted state including adjustable connectors and the appropriate bolts.





Cable ladder LG 110



Type	Width mm	Rail thickness mm	Length mm	Useful cross- section cm ²	Appr. load:				Weight kg/100 m	Item No.
					2.0 m kN/m	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m		
LG 112 3000 FS	200	1.5	3,000	188	3.1	1.4	0.65	0.5	382.000	6216 40 4
LG 113 3000 FS	300	1.5	3,000	283	3.1	1.4	0.65	0.5	406.000	6216 40 7
LG 114 3000 FS	400	1.5	3,000	378	3.1	1.4	0.65	0.5	430.300	6216 41 0
LG 115 3000 FS	500	1.5	3,000	475	3.1	1.4	0.65	0.5	454.300	6216 41 3
LG 116 3000 FS	600	1.5	3,000	568	3.1	1.4	0.65	0.5	478.700	6216 41 6
LG 112 3000 FT	200	1.5	3,000	188	3.1	1.4	0.65	0.5	405.000	6216 42 3
LG 113 3000 FT	300	1.5	3,000	283	3.1	1.4	0.65	0.5	430.700	6216 42 6
LG 114 3000 FT	400	1.5	3,000	378	3.1	1.4	0.65	0.5	456.700	6216 42 9
LG 115 3000 FT	500	1.5	3,000	475	3.1	1.4	0.65	0.5	482.300	6216 43 2
LG 116 3000 FT	600	1.5	3,000	568	3.1	1.4	0.65	0.5	508.300	6216 43 5
LG 112 6000 FS	200	1.5	6,000	188	3.1	1.4	0.65	0.5	382.000	6216 44 2
LG 113 6000 FS	300	1.5	6,000	283	3.1	1.4	0.65	0.5	406.200	6216 44 5
LG 114 6000 FS	400	1.5	6,000	378	3.1	1.4	0.65	0.5	430.300	6216 44 8
LG 115 6000 FS	500	1.5	6,000	475	3.1	1.4	0.65	0.5	454.500	6216 45 1
LG 116 6000 FS	600	1.5	6,000	568	3.1	1.4	0.65	0.5	478.700	6216 45 4
LG 112 6000 FT	200	1.5	6,000	188	3.1	1.4	0.65	0.5	405.000	6216 46 5
LG 113 6000 FT	300	1.5	6,000	283	3.1	1.4	0.65	0.5	430.800	6216 46 8
LG 114 6000 FT	400	1.5	6,000	378	3.1	1.4	0.65	0.5	456.700	6216 47 1
LG 115 6000 FT	500	1.5	6,000	475	3.1	1.4	0.65	0.5	482.500	6216 47 4
LG 116 6000 FT	600	1.5	6,000	568	3.1	1.4	0.65	0.5	508.300	6216 47 7

ST Steel FS Strip-galvanised FT Hot-dip galvanised /m

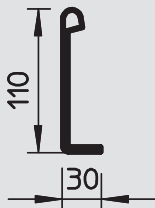
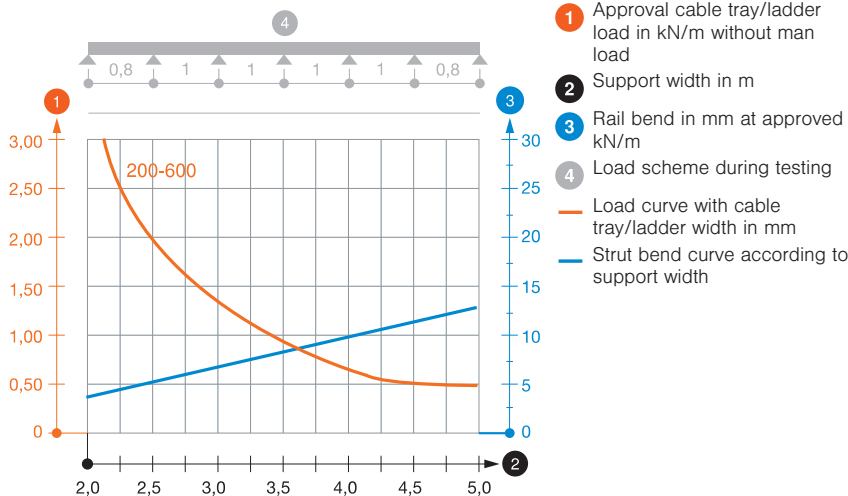
Cable ladder with perforated side rail of side height 110 mm with riveted C profile rungs, open in an upwards direction.

Magnetic shield insulation without cover 10 dB, with cover 15 dB.

The cable ladder is shipped folded up.

You can find the appropriate U clamp of type 2056 in the vertical ladder systems chapter.

Load diagram, cable ladder, type LG 110 VS

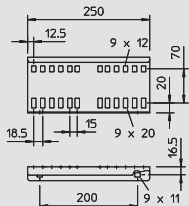


Protective cap

Type	Colour	Pack.	Weight	Item No.
SKH 110 OR	Pastel orange	pair	kg/100 pairs	
		20	1.400	6222 55 3

PE Polyethylene /pair

Protective cap to cover cable ladder ends of side height 110 mm.



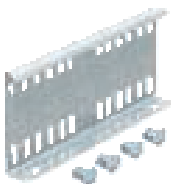
Straight connector

Type	Side height mm	Pack.	Weight	Item No.
LVG 110 FS	110	pcs	kg/100 pcs.	
		20	41.600	6216 54 5
LVG 110 FT	110	20	44.900	6216 54 8

ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.

Straight connector as external connector to connect cable ladders and fittings with a side height of 110 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.



Side rail height 110 mm

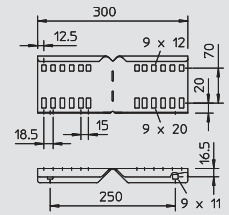


Angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LWVG 110 FS	110	20	48.800	6216 58 7
LWVG 110 VA4301	110	20	48.800	6216 59 0

ST Steel **V2A** Stainless steel, 1.4301 **FS** Strip-galvanised Bright /pc.
Angle connector as external connector to join cable ladders and fittings with a side height of 110 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.

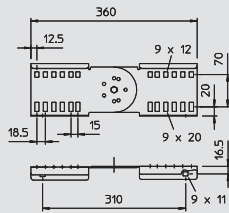


Articulated connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LGVG 110 FS	110	10	61.000	6216 65 0
LGVG 110 FT	110	10	65.000	6216 65 3

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.
Adjustable connector as external connector to join cable ladders and fittings with a side height of 110 mm and continuous rail perforation. Angle can be adjusted vertically.

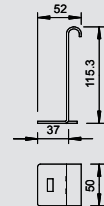
The bolt fastening ensures the continuity of the equipotential bonding.



Connection piece

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LAS 110 FS	10	20.000	6221 41 6
LAS 110 FT	10	20.000	6221 42 4

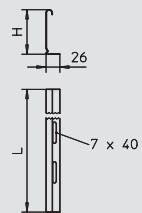
ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.
Connector for creation of branches at the same height at a later date.
To increase the cable supporting surface, use a conjunction of corner plates of type LEB.



Barrier strip

Type	Dimen- sion H mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
TSG 85 FS	85	3,000	45	0.000	6062 11 4
TSG 85 DD	85	3,000	45	0.000	6062 33 1

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /m
Barrier strip for separation of cables of different voltages or functions.



Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1.000	6067 97 0

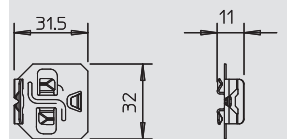
V2A Stainless steel, 1.4310 /pc.
Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.

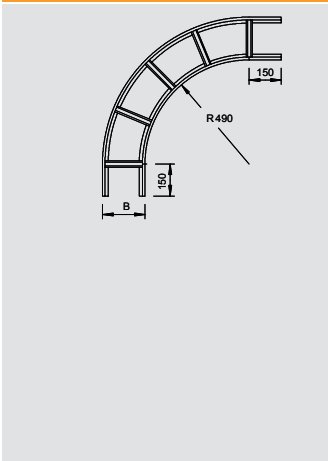


Clamping piece for barrier strip fastening

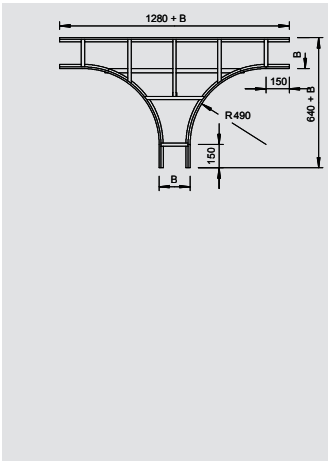
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KL VA4310	30	0.512	6062 28 4

V2A Stainless steel, 1.4310 /100 pc.
Clamping piece for screwless fastening of barrier strips in cable ladders.

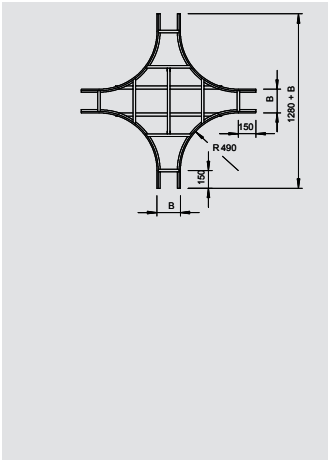




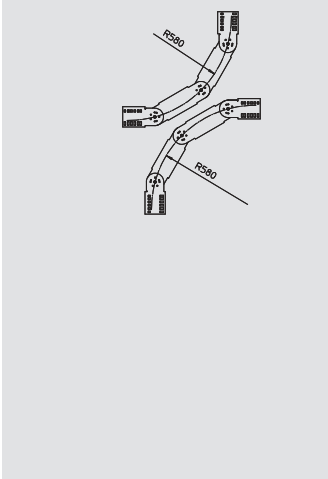
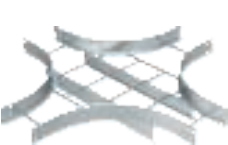
90° bend				
Type	Width mm	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
LBI 90 112 FS	200	1	498.000	6217 62 1
LBI 90 113 FS	300	1	562.000	6217 64 8
LBI 90 114 FS	400	1	655.000	6217 65 6
LBI 90 115 FS	500	1	726.000	6217 66 4
LBI 90 116 FS	600	1	840.000	6217 67 2
LBI 90 112 FT	200	1	528.000	6217 72 9
LBI 90 113 FT	300	1	595.000	6217 73 7
LBI 90 114 FT	400	1	694.000	6217 74 5
LBI 90 115 FT	500	1	762.000	6217 75 3
LBI 90 116 FT	600	1	890.000	6217 76 1
ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.				
90° bend, horizontal, for all cable ladder types of 110 mm side height.				
Connectors should be ordered separately and in the appropriate quantity.				



Horizontal tee				
Type	Width mm	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
LT 112 FS	200	1	893.000	6219 22 5
LT 113 FS	300	1	1,068.000	6219 23 3
LT 114 FS	400	1	1,159.000	6219 24 1
LT 115 FS	500	1	1,188.000	6219 26 8
LT 116 FS	600	1	1,409.000	6219 27 6
LT 112 FT	200	1	940.000	6219 32 2
LT 113 FT	300	1	1,132.000	6219 33 0
LT 114 FT	400	1	1,228.000	6219 34 9
LT 115 FT	500	1	1,251.000	6219 35 7
LT 116 FT	600	1	1,493.000	6219 36 5
ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.				
Horizontal tee, for all cable ladders with a side height of 110 mm.				
Connectors should be ordered separately and in the appropriate quantity.				



Horizontal cross-over				
Type	Width mm	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
LK 112 FS	200	1	1,221.000	6219 52 7
LK 113 FS	300	1	1,362.000	6219 53 5
LK 114 FS	400	1	1,465.000	6219 54 3
LK 115 FS	500	1	1,568.000	6219 55 1
LK 116 FS	600	1	1,853.000	6219 57 8
LK 112 FT	200	1	1,286.000	6219 62 4
LK 113 FT	300	1	1,434.000	6219 63 2
LK 114 FT	400	1	1,543.000	6219 64 0
LK 115 FT	500	1	1,651.000	6219 65 9
LK 116 FT	600	1	1,963.000	6219 66 7
ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.				
Horizontal cross-over for all cable ladders with a side height of 110 mm.				
Connectors should be ordered separately and in the appropriate quantity.				



90° adjustable vertical bend				
Type	Width mm	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
LGBV 112 FS	200	1	402.000	6218 82 2
LGBV 113 FS	300	1	431.000	6218 83 0
LGBV 114 FS	400	1	460.000	6218 84 9
LGBV 115 FS	500	1	489.000	6218 85 7
LGBV 116 FS	600	1	519.000	6218 86 5
LGBV 112 FT	200	1	426.000	6218 93 8
LGBV 113 FT	300	1	457.000	6218 94 6
LGBV 114 FT	400	1	488.000	6218 95 4
LGBV 115 FT	500	1	519.000	6218 96 2
LGBV 116 FT	600	1	540.000	6218 97 0
ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.				
90° adjustable vertical bend, for all cable ladder types with a side height of 110 mm.				
The fitting is shipped in an unmounted state including adjustable connectors and the appropriate bolts.				



Accessories for side rail height 45, 60, 110 mm



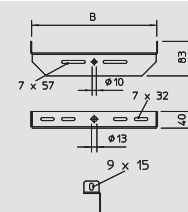
Central suspension, universal

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MAHU 200 FS	200	20	26.400	6358 85 3
MAHU 300 FS	300	20	39.300	6358 85 6
MAHU 400 FS	400	20	68.800	6358 86 0
MAHU 500 FS	500	20	85.800	6358 86 4
MAHU 600 FS	600	15	102.800	6358 86 8
MAHU 200 FT	200	20	29.400	6358 88 4
MAHU 300 FT	300	20	43.300	6358 88 8
MAHU 400 FT	400	20	75.800	6358 89 2
MAHU 500 FT	500	20	94.800	6358 89 6
MAHU 600 FT	600	15	112.800	6358 90 0

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Universal central suspension for fastening to threaded rods and supports.

Preferred use of this central suspension in combination with cable ladders and mesh cable trays.



Clamping piece

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LKS 40 FS	50	3.400	6221 07 6
LKS 40 FT	50	3.400	6221 08 4

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

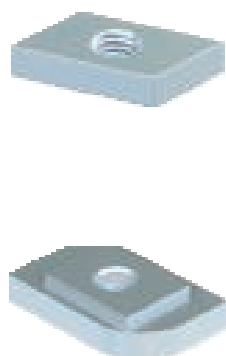
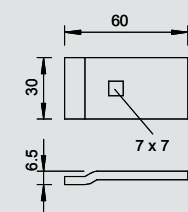
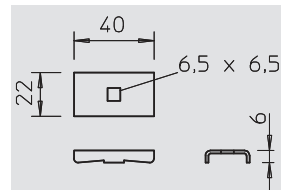
Clamping piece for fastening cable ladders.

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LKS60 4 FT	50	8.000	6221 12 2

ST Steel **FT** Hot-dip galvanised /pc.

Clamp for fastening cable ladders.

Fastening on brackets, type MWA 12, AW 15, AW 30 and AW 55, using the enclosed truss-head bolt FRS M6x20.



Slide nut

Type	Thread	Version	For rail with slot width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
5015 M6 OS VA	M6	No bolt	11-12	100	0.440	1141 10 4

V2A Stainless steel, 1.4301 /100 pc.

Slide nut for profile rails with a slot width of 11-12 mm.

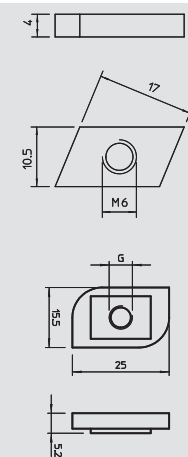
For NS rung, mountable from above.

Type	Thread	Version	For rail with slot width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
5017 M6 OS VA	M6	No bolt	16-17	100	0.985	1143 12 3

V4A Stainless steel, 1.4571 /100 pc.

Slide nut for profile rails with a slot width of 16-17 mm.

For VS rung, mountable from above.

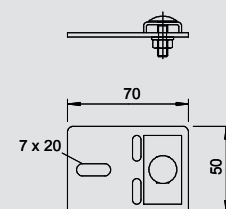


Support

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LAL 70 FS	20	10.200	6221 00 9
LAL 70 VA4301	20	10.200	6221 01 7

ST Steel **V2A** Stainless steel, 1.4301 **FS** Strip-galvanised /pc.

Support for fastening rising or falling cable ladders.

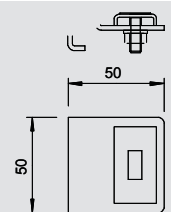


Support profile

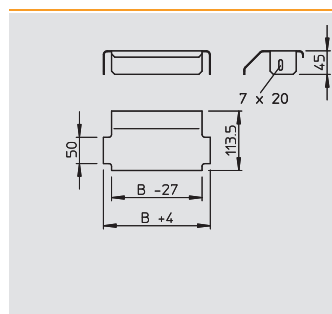
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LAW FT	10	10.000	6221 51 3

ST Steel **FT** Hot-dip galvanised /pc.

Support profile for creation of branches at different heights at a later date.



Accessories for side rail height 45, 60, 110 mm

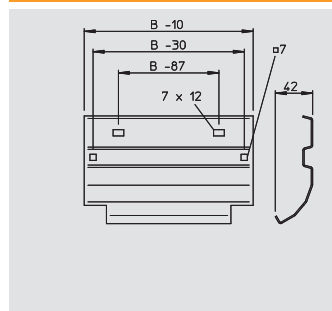


Support plate

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
LALB 20 FT	200	10	36.000	6221 85 8
LALB 30 FT	300	10	53.000	6221 86 6
LALB 40 FT	400	10	70.000	6221 87 4
LALB 50 FT	500	10	86.000	6221 88 2
LALB 60 FT	600	10	116.000	6221 89 0

ST Steel **FT** Hot-dip galvanised /pc.

Support plate to increase the cable volume and for cable protection

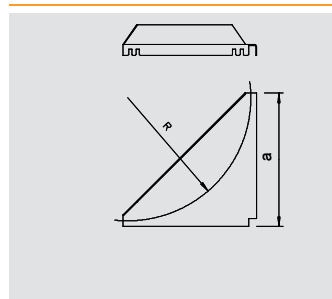


Exit plate

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
LAB 20 FT	200	20	40.000	6220 43 6
LAB 30 FT	300	25	60.000	6220 44 4
LAB 40 FT	400	25	79.000	6220 45 2
LAB 50 FT	500	15	98.000	6220 46 0
LAB 60 FT	600	15	117.000	6220 47 9

ST Steel **FT** Hot-dip galvanised /pc.

Exit plate for mounting on the rung for vertically exiting cables.

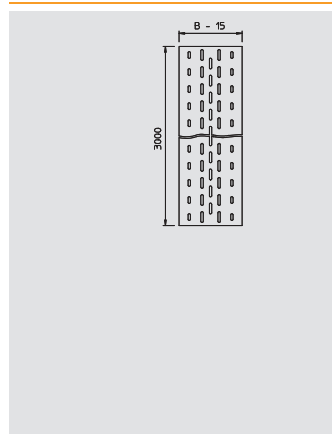


Corner plate

Type	Radius	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
LEB 25 FS	250	1	64.300	6221 20 3
LEB 50 FS	500	1	206.200	6221 24 6
LEB 25 DD	250	1	64.300	6221 21 6
LEB 50 DD	500	1	206.200	6221 25 9

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /pc.

Corner plate to increase the radius and the the cable supporting area.

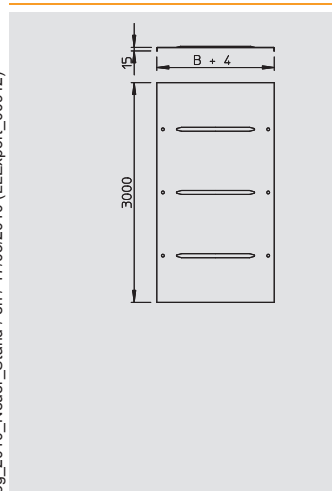
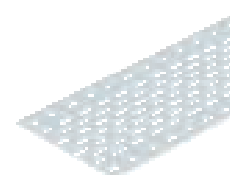


Insertion plate

Type	Width	Plate thickness	Length	Weight	Item No.
	mm	mm	mm	kg/100 m	
ELB-L 20 FS	200	1	3,000	129.000	6103 23 5
ELB-L 30 FS	300	1	3,000	202.000	6103 25 1
ELB-L 40 FS	400	1	3,000	270.000	6103 28 6
ELB-L 50 FS	500	1	3,000	339.000	6103 31 6
ELB-L 60 FS	600	1	3,000	396.000	6103 33 2
ELB-L 20 FT	200	1	3,000	140.000	6103 42 1
ELB-L 30 FT	300	1	3,000	222.000	6103 44 8
ELB-L 40 FT	400	1	3,000	300.000	6103 45 6
ELB-L 50 FT	500	1	3,000	373.000	6103 46 4
ELB-L 60 FT	600	1	3,000	436.000	6103 48 0

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /m

Insertion plate for use in cable ladders.



Cover

Type	Width	Plate thickness	Length	Weight	Item No.
	mm	mm	mm	kg/100 m	
DRL 200 FS	200	1	3,000	179.800	6052 20 7
DRL 300 FS	300	1	3,000	258.300	6052 30 4
DRL 400 FS	400	1	3,000	336.800	6052 40 1
DRL 500 FS	500	1.25	3,000	518.500	6052 50 9
DRL 600 FS	600	1.25	3,000	616.700	6052 60 6
DRL 200 DD	200	1	3,000	179.800	6052 70 9
DRL 300 DD	300	1	3,000	258.300	6052 71 2
DRL 400 DD	400	1	3,000	336.800	6052 71 5
DRL 500 DD	500	1.25	3,000	518.400	6052 71 8
DRL 600 DD	600	1.25	3,000	616.700	6052 72 4

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /m

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

Take appropriate constructive protection measures if there are high wind speeds.

Cross beading from 500 mm width.





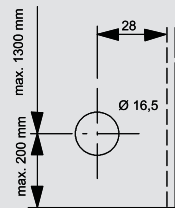
Accessories for side rail height 45, 60, 110 mm



Turn-buckle

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
DRLM 316 DD	10	2.800	6222 36 6
DRLM 316 VA4301	10	2.800	6222 35 8
ST Steel	V2A Stainless steel, 1.4301	DD Zinc-aluminium coated, double-dip	/pc.

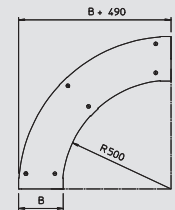
Turn-buckle for additional installation or installation at a later date.
Single-sided turn-buckle. Use for cover widths of 50 – 600 mm.



Cover for 90° bend

Type	Width mm	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
BID 90 200 FT	200	1	180.000	6239 15 3
BID 90 300 FT	300	1	400.000	6239 16 1
BID 90 400 FT	400	1	570.000	6239 18 8
BID 90 500 FT	500	1	760.000	6239 19 6
BID 90 600 FT	600	1	980.000	6239 21 8
ST Steel	FT Hot-dip galvanised			/pc.

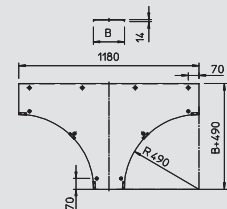
Cover with turn-buckles for covering 90° cable ladder bends.

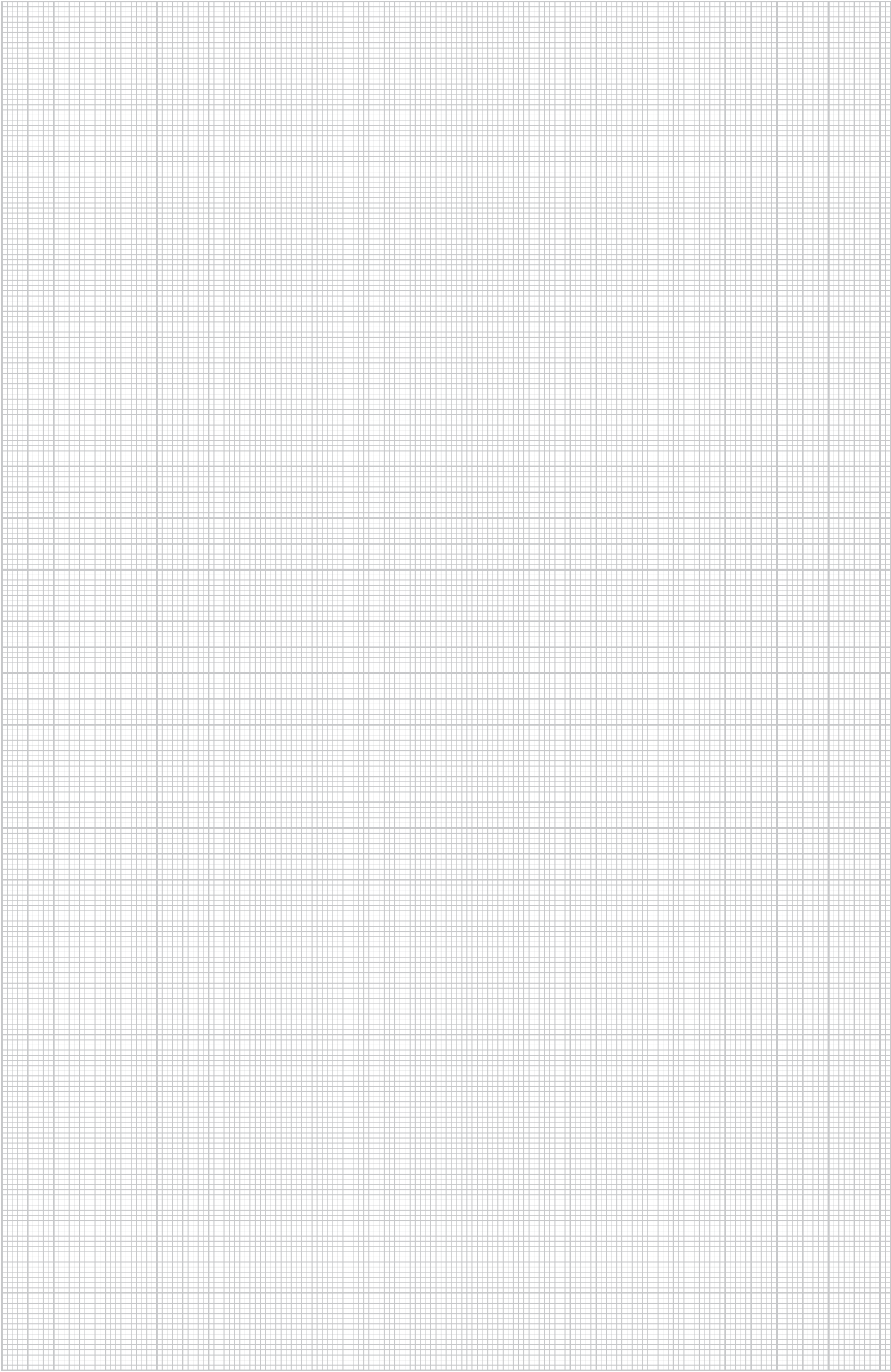


Cover for T piece

Type	Width mm	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
T D 200 FT	200	1	480.000	6239 77 3
T D 300 FT	300	1	650.000	6239 78 1
T D 400 FT	400	1	1,075.000	6239 80 3
T D 500 FT	500	1	1,202.000	6239 81 1
T D 600 FT	600	1	1,510.000	6239 83 8
ST Steel	FT Hot-dip galvanised			/pc.

Cover with turn-buckles for covering tees.





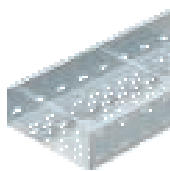


Wide span systems

	Wide span cable tray, side height 110 mm	Cable tray length 6.0 m, rail thickness 2.0 mm	280
		Connector	280
		Fittings	281
	Wide span cable tray, side height 160 mm	Cable tray length 6.0 m, rail thickness 2.0 mm	283
		Connector	283
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	Wide span cable ladder, side height 110 mm	Cable ladder length 6.0 m, rail thickness 2.0 mm	286
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		Fittings	287
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	Accessories for cable tray/cable ladder, side rail height 110, 160 mm	Covers	292
		Insert plate	293
	Wide span cable ladder, side height 200 mm	Cable ladder length 6.0 m, rail thickness 2.5 mm	294
		Connector	294
		Fittings	295
	Accessories for wide span cable ladder, 200 mm	Covers	297



Wide span cable tray, side height 110 mm



Wide span cable tray WKSJ 110

Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm ²	Appr. load:				Weight kg/100 m	Item No.
					4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	8.0 m kN/m		
WKSJ 120 FS	200	2	6,000	202	1.6	1.1	0.75	0.2	710.000	6098 11 1
WKSJ 130 FS	300	2	6,000	305	1.6	1.1	0.75	0.2	815.000	6098 11 5
WKSJ 140 FS	400	2	6,000	408	2.0	1.5	1.0	0.4	920.000	6098 11 9
WKSJ 150 FS	500	2	6,000	511	2.0	1.5	1.0	0.4	1,023.000	6098 12 3
WKSJ 160 FS	600	2	6,000	614	2.0	1.5	1.0	0.4	1,128.000	6098 12 7
WKSJ 120 FT	200	2	6,000	202	1.6	1.1	0.75	0.2	748.000	6098 14 1
WKSJ 130 FT	300	2	6,000	305	1.6	1.1	0.75	0.2	862.000	6098 14 5
WKSJ 140 FT	400	2	6,000	408	2.0	1.5	1.0	0.4	973.000	6098 14 9
WKSJ 150 FT	500	2	6,000	511	2.0	1.5	1.0	0.4	1,085.000	6098 15 3
WKSJ 160 FT	600	2	6,000	614	2.0	1.5	1.0	0.4	1,197.000	6098 15 7

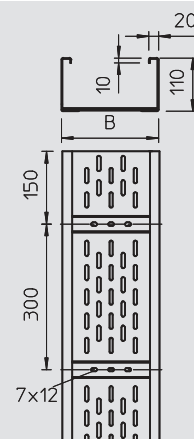
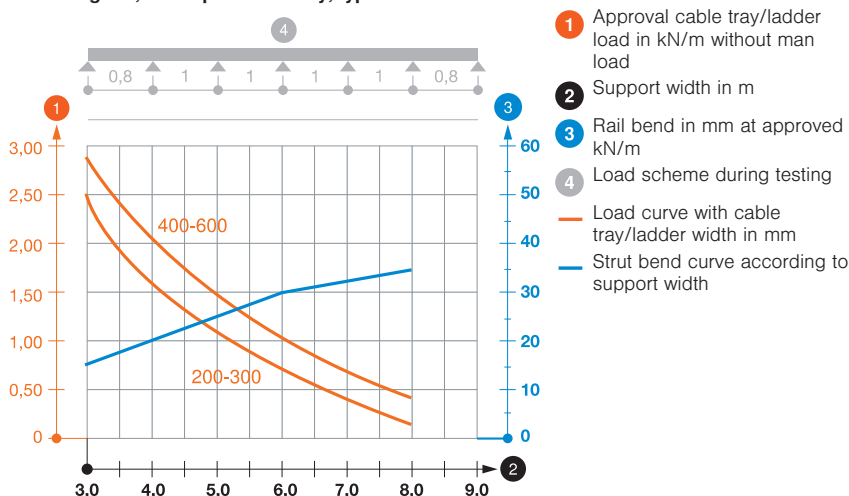
ST Steel FS Strip-galvanised FT Hot-dip galvanised /m

WKSJ 110 = wide span cable tray system, perforated, with a side height of 110 mm.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.

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

Load diagram, wide span cable tray, type WKSJ 110



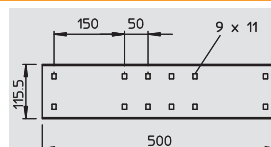
Straight connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRVL 110 FS	110	2	143.000	6091 16 4
WRVL 110 FT	110	2	149.000	6091 18 0

ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.

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

Including appropriate bolts, washers and nuts.



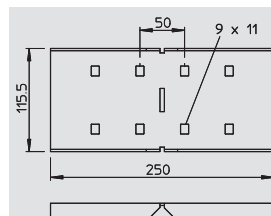
Angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWVK 110 FS	110	2	90.000	6091 37 7
WRWVK 110 VA4301	110	2	90.000	6091 39 3

ST Steel V2A Stainless steel, 1.4301 FS Strip-galvanised /pc.

Angle connector for wide span cable trays and ladders with a side height of 110 mm.

Including appropriate bolts, washers and nuts.



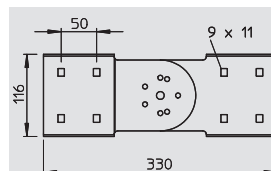
Articulated connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRGV 110 FS	110	2	119.000	6091 31 8
WRGV 110 FT	110	2	119.000	6091 33 4

ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.

Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.

Including appropriate bolts, washers and nuts.



Wide span systems



ST Steel FS Strip-galvanised DD Zinc-aluminium coated, double-dip /m
Barrier strip for separation of cables of different voltages or functions.



V2A	Stainless steel, 1.4310	/pc.
Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.		



V2A	Stainless steel, 1.4310	/100 pc.
Clamping piece for screwless fastening of barrier strips in cable ladders.		



ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.

90° bend, horizontal, for all wide span cable trays of 110 mm side height.

For further stabilisation, additional supports should be planned for the area of the fittings.



ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Add-on tee for horizontal use. For all wide span cable trays of 110 mm side height.
For further stabilisation, additional supports should be planned for the area of the fittings.



ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Add-on corner for wide span cable trays and ladders with a side height of 110 mm.

Wide span cable tray, side height 110 mm



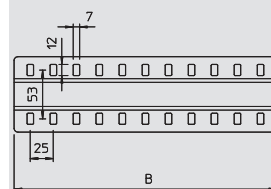
Joint plate

Type	Width mm	Quantity of bolts pc.	Pack. pcs	Weight kg/100 pcs.	Item No.
SSLB 100 FS	85	2	20	7.700	7070 20 5
SSLB 150 FS	135	2	20	12.200	7070 20 9
SSLB 200 FS	185	2	20	16.700	7070 21 3
SSLB 300 FS	285	3	20	25.700	7070 21 7
SSLB 400 FS	385	4	20	34.700	7070 22 1
SSLB 500 FS	485	5	20	43.700	7070 22 5
SSLB 550 FS	535	5	20	48.200	7070 22 9
SSLB 600 FS	585	6	20	52.700	7070 23 3
SSLB 100 DD	85	2	20	7.700	7070 30 6
SSLB 150 DD	135	2	20	12.200	7070 31 0
SSLB 200 DD	185	2	20	16.700	7070 31 4
SSLB 300 DD	285	3	20	25.700	7070 31 8
SSLB 400 DD	385	4	20	34.700	7070 32 2
SSLB 500 DD	485	5	20	43.700	7070 32 6
SSLB 550 DD	535	5	20	48.200	7070 33 0
SSLB 600 DD	585	6	20	52.700	7070 33 4

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /pc.

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

Including appropriate fastening material.



Wide span cable tray, side height 160 mm



Wide span cable tray WKSG 160

Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm ²	Appr. load:				Weight kg/100 m	Item No.
					5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m		
WKSG 162 FS	200	2	6,000	302	1.8	1.4	1.0	0.7	868.330	6098 50 1
WKSG 163 FS	300	2	6,000	455	1.8	1.4	1.0	0.7	971.670	6098 50 5
WKSG 164 FS	400	2	6,000	608	2.0	1.6	1.3	1.0	1,076.670	6098 50 9
WKSG 165 FS	500	2	6,000	761	2.0	1.6	1.3	1.0	1,180.000	6098 51 3
WKSG 166 FS	600	2	6,000	914	2.0	1.6	1.3	1.0	1,305.000	6098 51 7
WKSG 162 FT	200	2	6,000	302	1.8	1.4	1.0	0.7	921.700	6098 55 0
WKSG 163 FT	300	2	6,000	455	1.8	1.4	1.0	0.7	1,038.300	6098 55 4
WKSG 164 FT	400	2	6,000	608	2.0	1.6	1.3	1.0	1,150.000	6098 55 8
WKSG 165 FT	500	2	6,000	761	2.0	1.6	1.3	1.0	1,271.700	6098 56 2
WKSG 166 FT	600	2	6,000	914	2.0	1.6	1.3	1.0	1,388.300	6098 56 6

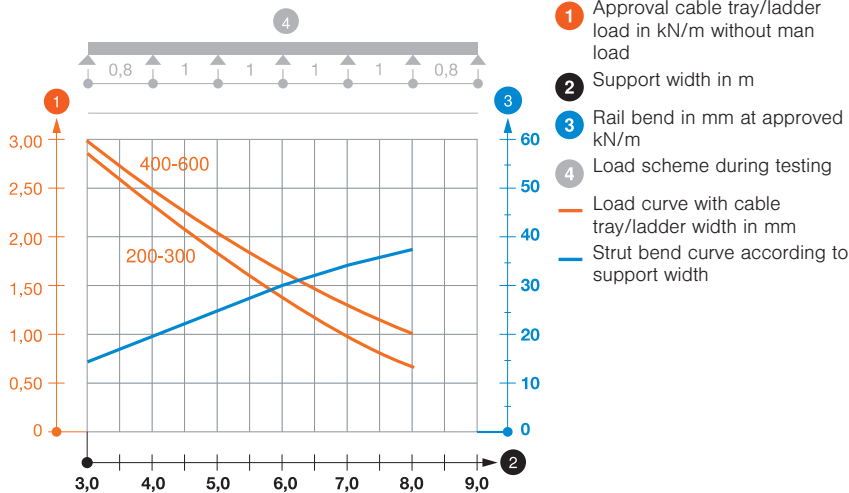
ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /m

WKSG 160 = wide span cable tray system, perforated, with a side height of 160 mm.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.

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

Load diagram, wide span cable tray, type WKSG 160



Straight connector

Type	Side height mm	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
WRVL 160 FS	160	2	218.000	6227 70 8
WRVL 160 FT	160	2	218.000	6227 71 6

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

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

Including appropriate bolts, washers and nuts.

45° angle connector, horizontal

Type	Side height mm	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
WRWV 160 I FS	160	1	234.000	6227 90 2
WRWV 160 I FT	160	1	234.000	6227 91 0

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

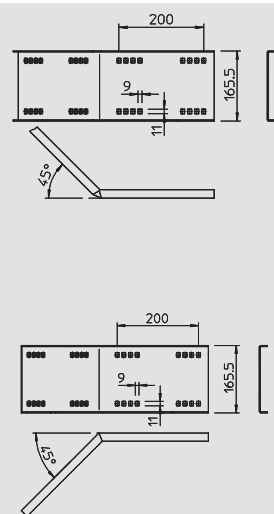
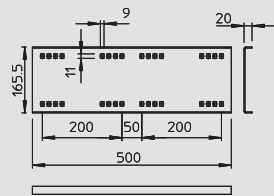
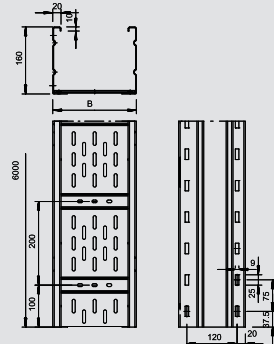
Including appropriate bolts, washers and nuts.

Type	Side height mm	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
WRWV 160 A FS	160	1	234.000	6227 85 6
WRWV 160 A FT	160	1	234.000	6227 86 4

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

Including appropriate bolts, washers and nuts.



Wide span cable tray, side height 160 mm

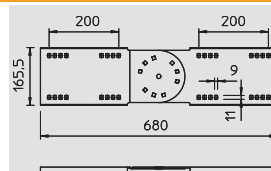


Articulated connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRGV 160 FS	160	2	310.000	6027 95 3
WRGV 160 FT	160	2	320.000	6027 96 1

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Articulated connector for wide span cable trays and ladders with a side height of 160 mm. Including appropriate bolts, washers and nuts.



Barrier strip

Type	Dimension H mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 110 FS	110	3,000	30	0.000	6062 12 2
TSG 110 DD	110	3,000	30	0.000	6062 33 5

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /m

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

Type	Dimension H mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 135 FS	135	3,000	15	100.000	6062 13 2

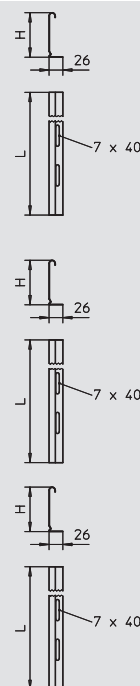
ST Steel **FS** Strip-galvanised /m

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

Type	Dimension H mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 135 DD	135	3,000	15	0.000	6062 33 8

ST Steel **DD** Zinc-aluminium coated, double-dip /m

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

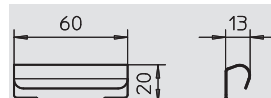


Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1.000	6067 97 0

V2A Stainless steel, 1.4310 /pc.

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

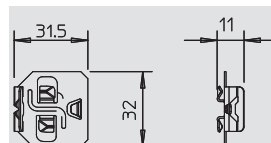


Clamping piece for barrier strip fastening

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KL VA4310	30	0.512	6062 28 4

V2A Stainless steel, 1.4310 /100 pc.

Clamping piece for screwless fastening of barrier strips in cable ladders.



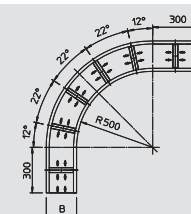
90° bend

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRB 90 162 FS	200	1	1,390.000	6098 70 3
WRB 90 163 FS	300	1	1,683.000	6098 70 7
WRB 90 164 FS	400	1	1,920.000	6098 71 1
WRB 90 165 FS	500	1	2,214.000	6098 71 5
WRB 90 166 FS	600	1	2,526.000	6098 71 9
WRB 90 162 FT	200	1	1,460.000	6098 73 0
WRB 90 163 FT	300	1	1,771.000	6098 73 4
WRB 90 164 FT	400	1	2,023.000	6098 73 8
WRB 90 165 FT	500	1	2,335.000	6098 74 2
WRB 90 166 FT	600	1	2,667.000	6098 74 6

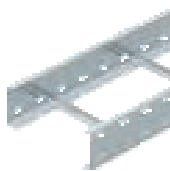
ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

90° bend, horizontal, for all wide span cable trays of 160 mm side height.

For further stabilisation, additional supports should be planned for the area of the fittings.



Wide span cable ladder, side height 110 mm



Wide span cable ladder WKLG 110

Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm²	Appr. load: 4.0 m	5.0 m	6.0 m	7.0 m	Weight kg/100 m	Item No.
WKLG 1120 FS	200	2	6,000	186	1.6	1.1	0.8	0.4	550.300	6311 00 8
WKLG 1130 FS	300	2	6,000	281	1.6	1.1	0.8	0.4	575.300	6311 01 2
WKLG 1140 FS	400	2	6,000	376	2.1	1.5	1.0	0.7	600.300	6311 01 6
WKLG 1150 FS	500	2	6,000	471	2.1	1.5	1.0	0.7	625.700	6311 02 0
WKLG 1160 FS	600	2	6,000	566	2.1	1.5	1.0	0.7	650.700	6311 02 4
WKLG 1120 FT	200	2	6,000	186	1.6	1.1	0.8	0.4	609.300	6311 05 9
WKLG 1130 FT	300	2	6,000	281	1.6	1.1	0.8	0.4	635.700	6311 06 3
WKLG 1140 FT	400	2	6,000	376	2.1	1.5	1.0	0.7	662.300	6311 06 7
WKLG 1150 FT	500	2	6,000	471	2.1	1.5	1.0	0.7	689.000	6311 07 1
WKLG 1160 FT	600	2	6,000	566	2.1	1.5	1.0	0.7	715.700	6311 07 5

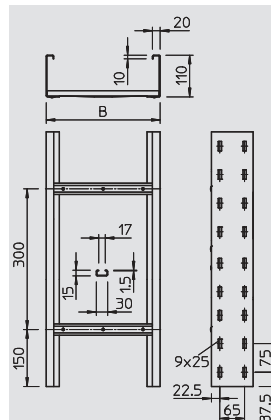
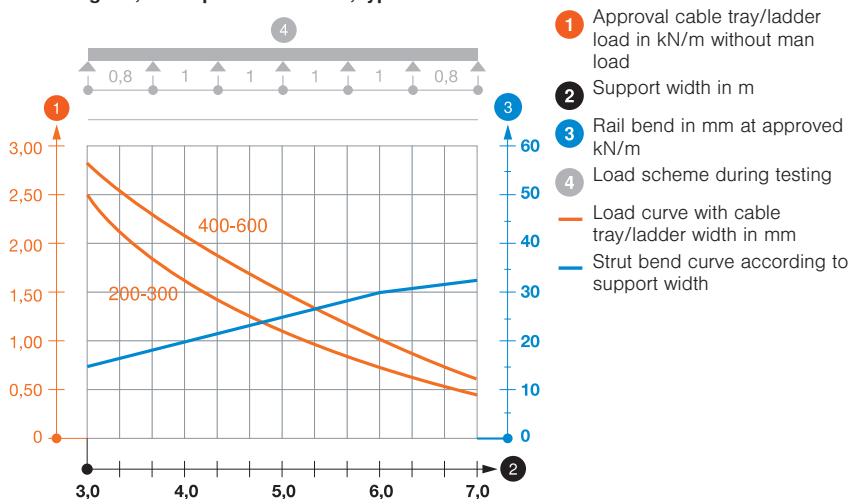
ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /m

WKLG 110 = wide span cable ladder with perforated side rails of side height of 110 mm.

Magnetic shield insulation without cover 10 dB, with cover 15 dB.

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

Load diagram, wide span cable ladder, type WKLG 110

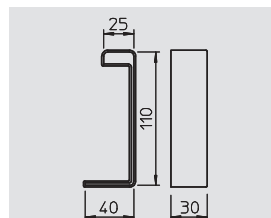


Protective cap

Type	Colour	Pack. pair	Weight kg/100 pairs	Item No.
SKHW 110 OR	Pastel orange	20	4.400	6310 39 8

PE Polyethylene /pair

Protective cap to cover the ends of wide span cable ladders.



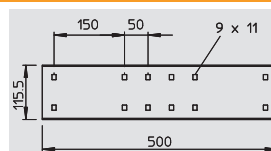
Straight connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRVL 110 FS	110	2	143.000	6091 16 4
WRVL 110 FT	110	2	149.000	6091 18 0

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

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

Including appropriate bolts, washers and nuts.



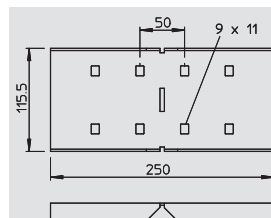
Angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWVK 110 FS	110	2	90.000	6091 37 7
WRWVK 110 VA4301	110	2	90.000	6091 39 3

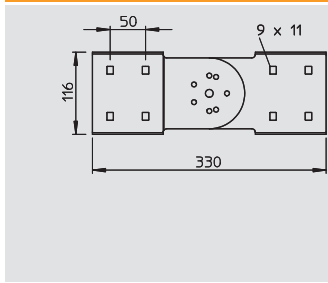
ST Steel **V2A** Stainless steel, 1.4301 **FS** Strip-galvanised /pc.

Angle connector for wide span cable trays and ladders with a side height of 110 mm.

Including appropriate bolts, washers and nuts.



Wide span cable ladder, side height 110 mm

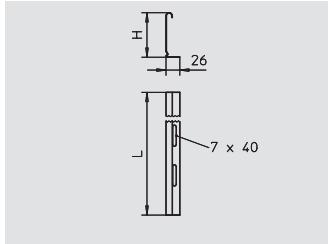
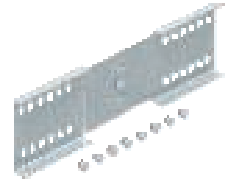


Articulated connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRGV 110 FS	110	2	119.000	6091 31 8
WRGV 110 FT	110	2	119.000	6091 33 4

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Adjustable connector for wide span cable trays and ladders with a side height of 110 mm. Including appropriate bolts, washers and nuts.

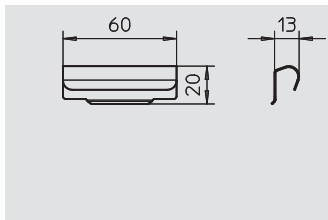


Barrier strip

Type	Dimension H mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 85 FS	85	3,000	45	0.000	6062 11 4
TSG 85 DD	85	3,000	45	0.000	6062 33 1

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /m

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

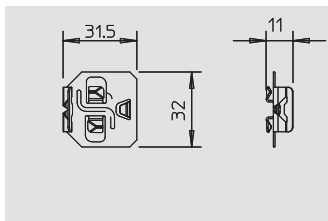


Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1.000	6067 97 0

V2A Stainless steel, 1.4310 /pc.

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

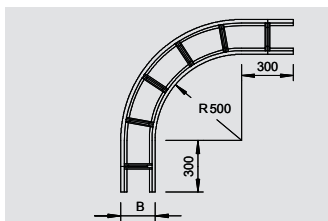


Clamping piece for barrier strip fastening

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KL VA4310	30	0.512	6062 28 4

V2A Stainless steel, 1.4310 /100 pc.

Clamping piece for screwless fastening of barrier strips in cable ladders.



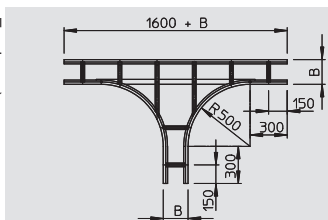
90° bend

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WLB 90 112 FS	200	1	900.000	6312 33 0
WLB 90 113 FS	300	1	1,030.000	6312 34 9
WLB 90 114 FS	400	1	1,130.000	6312 35 7
WLB 90 115 FS	500	1	1,230.000	6312 36 5
WLB 90 116 FS	600	1	1,330.000	6312 37 3
WLB 90 112 FT	200	1	940.000	6312 43 8
WLB 90 113 FT	300	1	1,070.000	6312 44 6
WLB 90 114 FT	400	1	1,180.000	6312 45 4
WLB 90 115 FT	500	1	1,270.000	6312 46 2
WLB 90 116 FT	600	1	1,370.000	6312 47 0

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

90° bend, horizontal, for all wide span cable ladders of 110 mm side height.

For further stabilisation, additional supports should be planned for the area of the fittings.



T branch piece

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WLT 1120 FS	200	1	1,750.000	6312 63 2
WLT 1130 FS	300	1	1,870.000	6312 64 0
WLT 1140 FS	400	1	1,990.000	6312 65 9
WLT 1150 FS	500	1	2,150.000	6312 66 7
WLT 1160 FS	600	1	2,340.000	6312 67 5
WLT 1120 FT	200	1	1,830.000	6312 71 3
WLT 1130 FT	300	1	1,950.000	6312 72 1
WLT 1140 FT	400	1	2,080.000	6312 74 8
WLT 1150 FT	500	1	2,250.000	6312 75 6
WLT 1160 FT	600	1	2,440.000	6312 76 4

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

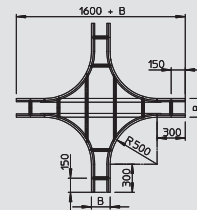
Horizontal tee, for all wide span cable ladders of 110 mm side height.

For further stabilisation, additional supports should be planned for the area of the fittings.



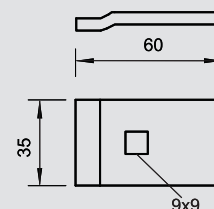
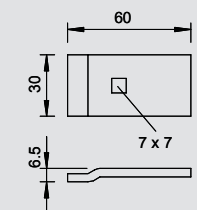
Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
WLK 1120 FT	200	1	2,616.000	6312 93 4
WLK 1130 FT	300	1	2,844.000	6312 94 2
WLK 1140 FT	400	1	2,997.000	6312 95 0
WLK 1150 FT	500	1	3,145.000	6312 96 9
WLK 1160 FT	600	1	3,295.000	6312 97 7

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

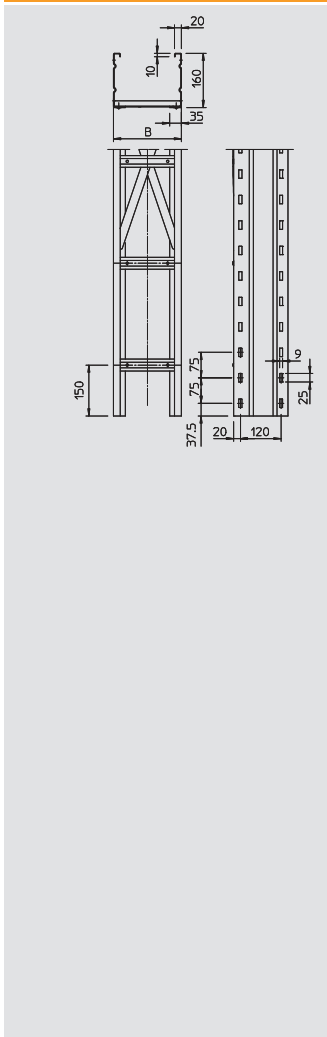


Clamp for fastening cable ladders.
Fastening on brackets, type MWA 12, AW 15, AW 30 and AW 55, using the enclosed truss-head bolt FRS M6x20.

Clamp for fastening wide span cable ladders.
Fastening on bracket, type AW 80, and AWSS using the enclosed truss-head bolt FRS M8x20.



Wide span cable ladder, side height 160 mm



Wide span cable ladder WKL 160

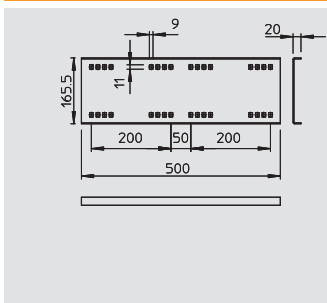
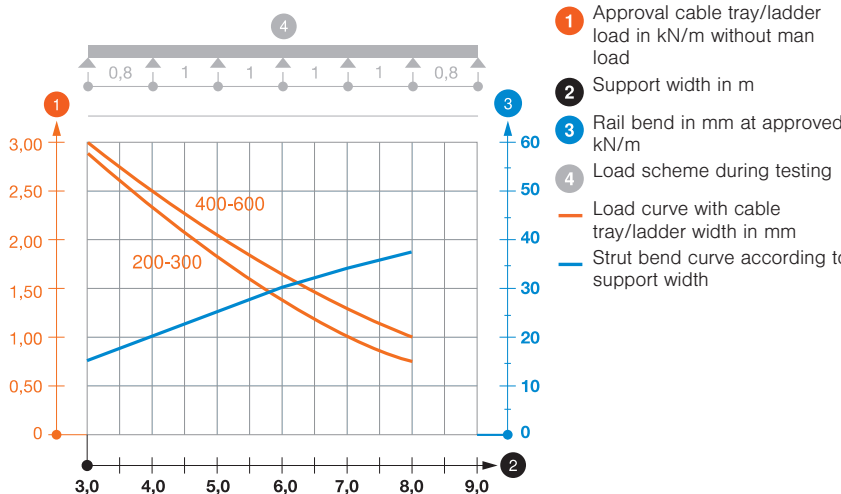
Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm ²	Appr. load:				Weight kg/100 m	Item No.
					5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m		
WKL 1620 FS	200	2	6,000	282	1.8	1.4	1.0	0.7	737.300	6227 02 3
WKL 1630 FS	300	2	6,000	427	1.8	1.4	1.0	0.7	767.300	6227 03 1
WKL 1640 FS	400	2	6,000	572	2.0	1.6	1.3	1.0	797.300	6227 05 8
WKL 1650 FS	500	2	6,000	717	2.0	1.6	1.3	1.0	828.500	6227 06 6
WKL 1660 FS	600	2	6,000	857	2.0	1.6	1.3	1.0	859.300	6227 07 4
WKL 1620 FT	200	2	6,000	282	1.8	1.4	1.0	0.7	770.700	6227 12 0
WKL 1630 FT	300	2	6,000	427	1.8	1.4	1.0	0.7	802.500	6227 13 9
WKL 1640 FT	400	2	6,000	572	2.0	1.6	1.3	1.0	835.000	6227 14 7
WKL 1650 FT	500	2	6,000	717	2.0	1.6	1.3	1.0	867.300	6227 15 5
WKL 1660 FT	600	2	6,000	857	2.0	1.6	1.3	1.0	900.000	6227 16 3

ST Steel FS Strip-galvanised FT Hot-dip galvanised /m

WKL 160 = wide span cable ladder with perforated side rails of side height of 160 mm.
Magnetic shield insulation without cover 10 dB, with cover 15 dB.

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

Load diagram, wide span cable ladder, type WKL 160



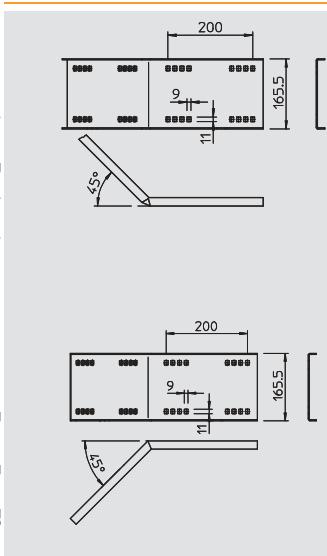
Straight connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRVL 160 FS	160	2	218.000	6227 70 8
WRVL 160 FT	160	2	218.000	6227 71 6

ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.

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

Including appropriate bolts, washers and nuts.



Angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRV 160 I FS	160	1	234.000	6227 90 2
WRV 160 I FT	160	1	234.000	6227 91 0

ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.

45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

Including appropriate bolts, washers and nuts.

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRV 160 A FS	160	1	234.000	6227 85 6
WRV 160 A FT	160	1	234.000	6227 86 4

ST Steel FS Strip-galvanised FT Hot-dip galvanised /pc.

45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

Including appropriate bolts, washers and nuts.



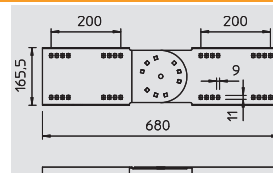
Wide span cable ladder, side height 160 mm

Articulated connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRGV 160 FS	160	2	310.000	6227 95 3
WRGV 160 FT	160	2	320.000	6227 96 1

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Articulated connector for wide span cable trays and ladders with a side height of 160 mm. Including appropriate bolts, washers and nuts.



Barrier strip

Type	Dimension H mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 110 FS	110	3,000	30	0.000	6062 12 2
TSG 110 DD	110	3,000	30	0.000	6062 33 5

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /m

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

Type	Dimension H mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 135 FS	135	3,000	15	100.000	6062 13 2

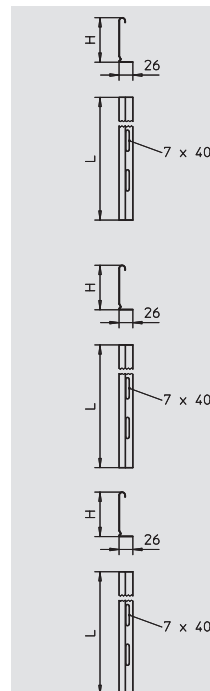
ST Steel **FS** Strip-galvanised /m

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

Type	Dimension H mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 135 DD	135	3,000	15	0.000	6062 33 8

ST Steel **DD** Zinc-aluminium coated, double-dip /m

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

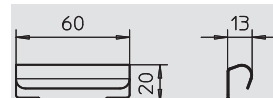


Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1.000	6067 97 0

V2A Stainless steel, 1.4310 /pc.

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

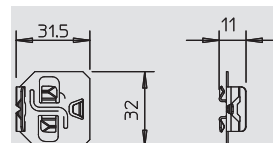


Clamping piece for barrier strip fastening

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KL VA4310	30	0.512	6062 28 4

V2A Stainless steel, 1.4310 /100 pc.

Clamping piece for screwless fastening of barrier strips in cable ladders.



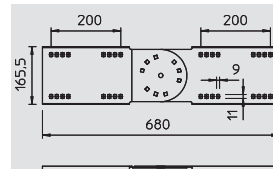
90° bend

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WLB 90 162 FS	200	1	1,145.000	6229 33 6
WLB 90 163 FS	300	1	1,250.000	6229 34 4
WLB 90 164 FS	400	1	1,355.000	6229 35 2
WLB 90 165 FS	500	1	1,505.000	6229 36 0
WLB 90 166 FS	600	1	1,620.000	6229 37 9
WLB 90 162 FT	200	1	1,200.000	6229 42 5
WLB 90 163 FT	300	1	1,310.000	6229 43 3
WLB 90 164 FT	400	1	1,420.000	6229 44 1
WLB 90 165 FT	500	1	1,575.000	6229 46 8
WLB 90 166 FT	600	1	1,695.000	6229 47 6

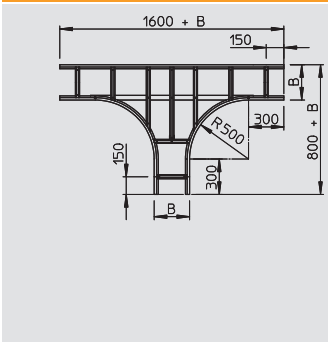
ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

90° bend, horizontal, for all wide span cable ladders of 160 mm side height.

For further stabilisation, additional supports should be planned for the area of the fittings.



Wide span cable ladder, side height 160 mm



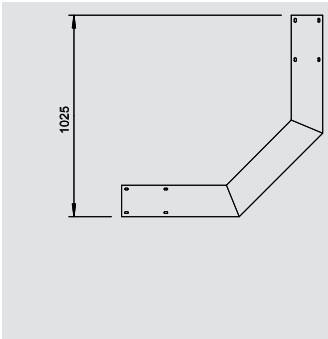
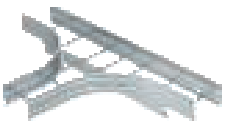
T branch piece

Type	Width mm	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
WLT 1620 FT	200	1	2,345.000	6229 72 7
WLT 1630 FT	300	1	2,565.000	6229 73 5
WLT 1640 FT	400	1	2,725.000	6229 74 3
WLT 1650 FT	500	1	2,885.000	6229 75 1
WLT 1660 FT	600	1	3,040.000	6229 77 8

ST Steel **FT** Hot-dip galvanised /pc.

Horizontal tee, for all wide span cable ladders of 160 mm side height.

For further stabilisation, additional supports should be planned for the area of the fittings.



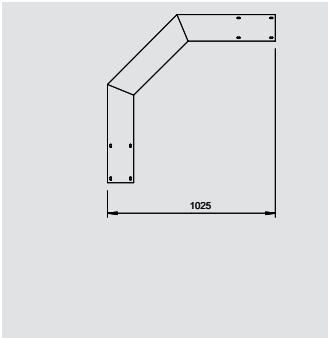
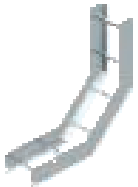
90° vertical bend, rising

Type	Width mm	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
WLBS 90 162 FT	200	1	1,275.000	6230 42 3
WLBS 90 163 FT	300	1	1,335.000	6230 43 1
WLBS 90 164 FT	400	1	1,385.000	6230 45 8
WLBS 90 165 FT	500	1	1,445.000	6230 46 6
WLBS 90 166 FT	600	1	1,495.000	6230 47 4

ST Steel **FT** Hot-dip galvanised /pc.

90° vertical bend, for all wide span cable ladders of 160 mm side height.

For further stabilisation, additional supports should be planned for the area of the fittings.



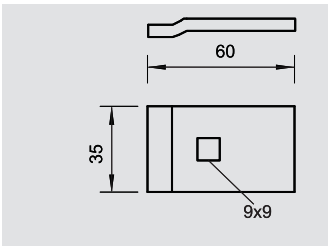
90° vertical bend, falling

Type	Width mm	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
WLBF 90 162 FT	200	1	1,275.000	6230 72 5
WLBF 90 163 FT	300	1	1,335.000	6230 73 3
WLBF 90 164 FT	400	1	1,385.000	6230 74 1
WLBF 90 165 FT	500	1	1,445.000	6230 76 8
WLBF 90 166 FT	600	1	1,495.000	6230 77 6

ST Steel **FT** Hot-dip galvanised /pc.

90° vertical bend, for all wide span cable ladders of 160 mm side height.

For further stabilisation, additional supports should be planned for the area of the fittings.



Clamping piece

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
LKS 60 5 FT	50	10.000	6232 48 5

ST Steel **FT** Hot-dip galvanised /pc.

Clamp for fastening wide span cable ladders.

Fastening on bracket, type AW 80, and AWSS using the enclosed truss-head bolt FRS M8x20.



Accessories for cable tray/cable ladder side rail height 110, 160 mm

Cover

Type	Width mm	Plate thickness mm	Length mm	Weight kg/100 m	Item No.
WDRL 1116 20 FS	200	1	3,000	190.000	6227 42 2
WDRL 1116 30 FS	300	1	3,000	268.000	6227 43 0
WDRL 1116 40 FS	400	1	3,000	347.000	6227 44 9
WDRL 1116 50 FS	500	1.5	3,000	530.000	6227 45 7
WDRL 1116 60 FS	600	1.5	3,000	628.000	6227 46 5
WDRL 1116 20 DD	200	1	3,000	184.000	6227 60 0
WDRL 1116 30 DD	300	1	3,000	260.000	6227 60 4
WDRL 1116 40 DD	400	1	3,000	425.000	6227 60 8
WDRL 1116 50 DD	500	1.5	3,000	625.000	6227 61 2
WDRL 1116 60 DD	600	1.5	3,000	742.000	6227 61 6

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /m

Cover with turn-buckles for wide span cable tray and wide span cable ladder with side heights of 110 and 160 mm.

Take appropriate constructive protection measures if there are high wind speeds.

Transverse bead from 500 mm width.

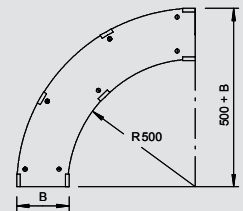


Cover for 90° bend

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDBRL 90 20 FS	200	1	1	150.000	6231 46 2
WDBRL 90 30 FS	300	1	1	240.000	6231 47 0
WDBRL 90 40 FS	400	1	1	440.000	6231 48 9
WDBRL 90 50 FS	500	1	1	580.000	6231 49 7
WDBRL 90 60 FS	600	1	1	750.000	6231 50 0
WDBRL 90 20 DD	200	1	1	245.000	6231 52 7
WDBRL 90 30 DD	300	1	1	383.000	6231 53 5
WDBRL 90 40 DD	400	1	1	545.000	6231 54 3
WDBRL 90 50 DD	500	1	1	721.000	6231 55 1
WDBRL 90 60 DD	600	1	1	945.000	6231 57 8

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /pc.

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

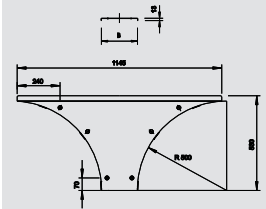


Cover for add-on tee

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WAAD 200 FS	200	1.5	1	193.000	6231 90 0
WAAD 300 FS	300	1.5	1	234.000	6231 90 4
WAAD 400 FS	400	1.5	1	413.000	6231 90 8
WAAD 500 FS	500	1.5	1	476.000	6231 91 2
WAAD 600 FS	600	1.5	1	538.000	6231 91 6
WAAD 200 DD	200	1.5	1	193.000	6231 92 2
WAAD 300 DD	300	1.5	1	234.000	6231 92 6
WAAD 400 DD	400	1.5	1	413.000	6231 93 0
WAAD 500 DD	500	1.5	1	476.000	6231 93 4
WAAD 600 DD	600	1.5	1	538.000	6231 93 8

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /pc.

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

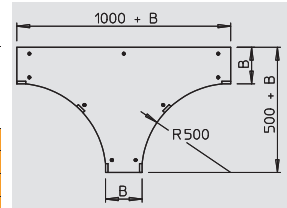


Cover for T piece

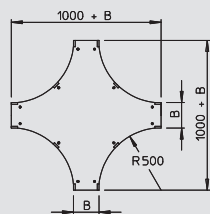
Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDTRL 200 DD	200	1	1	392.000	6231 66 7
WDTRL 300 DD	300	1	1	552.000	6231 67 5
WDTRL 400 DD	400	1	1	1,050.000	6231 68 3
WDTRL 500 DD	500	1.25	1	1,410.000	6231 69 1
WDTRL 600 DD	600	1.25	1	1,720.000	6231 70 5

ST Steel **DD** Zinc-aluminium coated, double-dip /pc.

Cover for wide span tee with pre-mounted turn-buckles.



Accessories for cable tray/cable ladder side rail height 110, 160 mm



Cover for horizontal cross-over

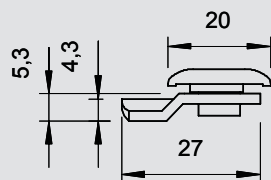
Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WDKRL 200 DD	200	1	1	520.000	6231 80 2
WDKRL 300 DD	300	1	1	720.000	6231 81 0
WDKRL 400 DD	400	1	1	1.500.000	6231 82 9
WDKRL 500 DD	500	1.25	1	1.950.000	6231 83 7
WDKRL 600 DD	600	1.25	1	2.350.000	6231 84 5

ST Steel

DD Zinc-aluminium coated, double-dip

/pc.

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



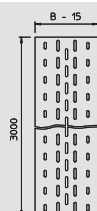
Turn-buckle

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
WDR 317 VA4301	10	2.800	6227 62 7

V2A Stainless steel, 1.4301

/pc.

Turn-buckle for additional installation or installation at a later date in wide span covers of side heights 110 and 160 mm.



Insertion plate

Type	Width mm	Plate thickness mm	Length mm	Weight kg/100 m	Item No.
ELB-L 20 FS	200	1	3.000	129.000	6103 23 5
ELB-L 30 FS	300	1	3.000	202.000	6103 25 1
ELB-L 40 FS	400	1	3.000	270.000	6103 28 6
ELB-L 50 FS	500	1	3.000	339.000	6103 31 6
ELB-L 60 FS	600	1	3.000	396.000	6103 33 2
ELB-L 20 FT	200	1	3.000	140.000	6103 42 1
ELB-L 30 FT	300	1	3.000	222.000	6103 44 8
ELB-L 40 FT	400	1	3.000	300.000	6103 45 6
ELB-L 50 FT	500	1	3.000	373.000	6103 46 4
ELB-L 60 FT	600	1	3.000	436.000	6103 48 0

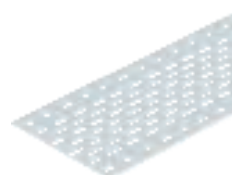
ST Steel

FS Strip-galvanised

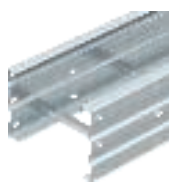
FT Hot-dip galvanised

/m

Insertion plate for use in cable ladders.



Wide span cable ladder, side height 200 mm



Wide span cable ladder WKL 200

Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm ²	Appr. load:					Weight kg/100 m	Item No.
					6.0 m kN/m	7.0 m kN/m	8.0 m kN/m	9.0 m kN/m	10.0 m kN/m		
WKL 2020 FT	200	2.5	6,000	344	3.0	2.5	2.0	1.4	1.0	1,320.000	6232 02 7
WKL 2030 FT	300	2.5	6,000	524	3.0	2.5	2.0	1.4	1.0	1,358.000	6232 03 5
WKL 2040 FT	400	2.5	6,000	704	3.0	2.5	2.0	1.4	1.0	1,398.000	6232 04 3
WKL 2050 FT	500	2.5	6,000	884	3.0	2.5	2.0	1.4	1.0	1,440.000	6232 05 1
WKL 2060 FT	600	2.5	6,000	1064	3.0	2.5	2.0	1.4	1.0	1,480.000	6232 07 8

ST Steel

FT Hot-dip galvanised

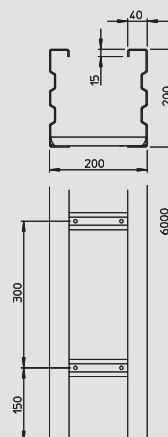
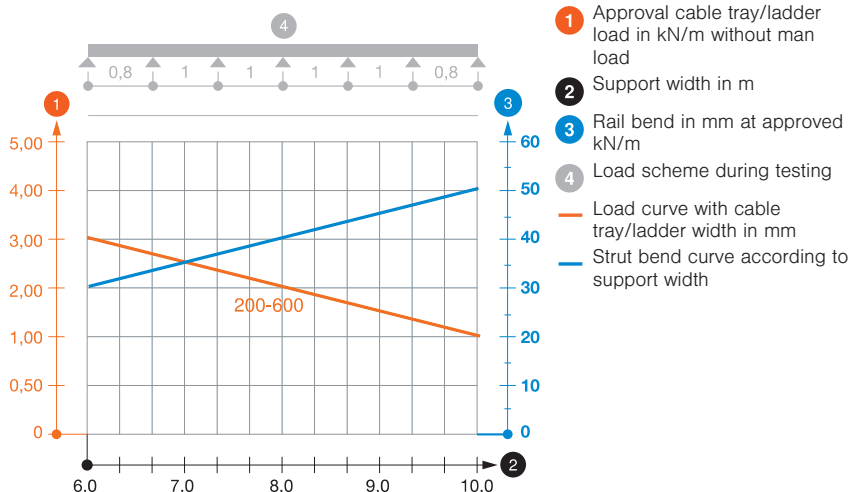
/m

WKL 200 = wide span cable ladder with a side height of 200 mm.

Magnetic shield insulation without cover 10 dB, with cover 15 dB.

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

Load diagram, wide span cable ladder, type WKL 200



Straight connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRV 200 FT	200	4	298.000	6232 50 7

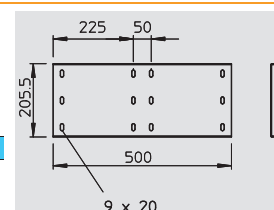
ST Steel

FT Hot-dip galvanised

/pc.

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

Including appropriate bolts, washers and nuts.



45° angle connector, horizontal

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWV 200 I FT	200	4	322.000	6232 61 2

ST Steel

FT Hot-dip galvanised

/pc.

45° angle connector, horizontal, for wide span cable ladders of 200 mm side height.

Including appropriate bolts, washers and nuts.

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWV 200 A FT	200	4	322.000	6232 60 4

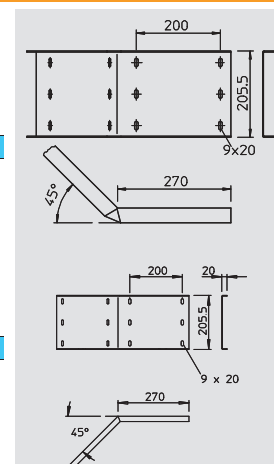
ST Steel

FT Hot-dip galvanised

/pc.

45° angle connector, horizontal, for wide span cable ladders of 200 mm side height.

Including appropriate bolts, washers and nuts.



45° angle connector, vertical

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWV 200 V FT	200	4	343.000	6232 66 3

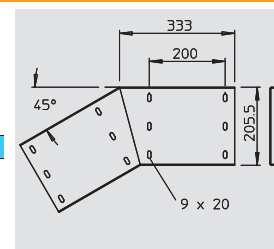
ST Steel

FT Hot-dip galvanised

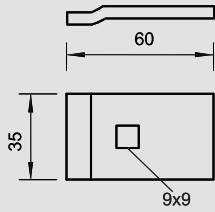
/pc.

45° angle connector, vertical, for wide span cable ladders of 200 mm side height.

Including appropriate bolts, washers and nuts.



Wide span cable ladder, side height 200 mm



Type

Clamping piece

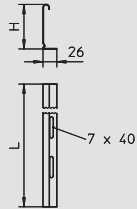
LKS 60 5 FT

ST Steel **FT** Hot-dip galvanised

Clamp for fastening wide span cable ladders.

Fastening on bracket, type AW 80, and AWSS using the enclosed truss-head bolt FRS M8x20.

Pack.	Weight	Item No.
pcs	kg/100 pcs.	
50	10.000	6232 48 5
/pc.		



Type

Barrier strip

TSG 110 FS

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip

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

Type

Dimension H

Dimension L

mm mm

TSG 110 DD

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip

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

Type

Dimension H

Dimension L

mm mm

TSG 135 FS

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip

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

Type

Dimension H

Dimension L

mm mm

TSG 135 DD

ST Steel **DD** Zinc-aluminium coated, double-dip

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

Type

Dimension H

Dimension L

mm mm

TSG 135 DD

ST Steel **DD** Zinc-aluminium coated, double-dip

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

Type

Dimension H

Dimension L

mm mm

TSG 135 DD

ST Steel **DD** Zinc-aluminium coated, double-dip

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

Type

Dimension H

Dimension L

mm mm

TSG 135 DD

ST Steel **DD** Zinc-aluminium coated, double-dip

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

Type

Dimension H

Dimension L

mm mm

TSG 135 DD

ST Steel **DD** Zinc-aluminium coated, double-dip

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

Type

Dimension H

Dimension L

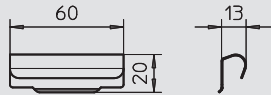
mm mm

TSG 135 DD

ST Steel **DD** Zinc-aluminium coated, double-dip

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

Pack.	Weight	Item No.
m	kg/100 m	
30	0.000	6062 12 2
30	0.000	6062 33 5
/m		



Type

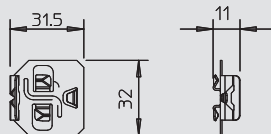
Barrier strip connector

TSGV VA4310

V2A Stainless steel, 1.4310

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

Pack.	Weight	Item No.
pcs	kg/100 pcs.	
10	1.000	6067 97 0
/pc.		



Type

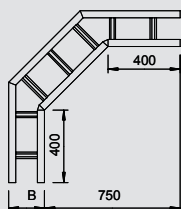
Clamping piece for barrier strip fastening

KS KL VA4310

V2A Stainless steel, 1.4310

Clamping piece for screwless fastening of barrier strips in cable ladders.

Pack.	Weight	Item No.
pcs	kg/100 pcs.	
30	0.512	6062 28 4
/100 pc.		



Type

90° bend

WLB 90 2020 FT

WLB 90 2030 FT

WLB 90 2040 FT

WLB 90 2050 FT

WLB 90 2060 FT

ST Steel **FT** Hot-dip galvanised

90° bend, horizontal, for all wide span cable ladders of 200 mm side height.

For further stabilisation, additional supports should be planned for the area of the fittings.

Pack.	Weight	Item No.
pcs	kg/100 pcs.	
1	1.885.000	6233 42 2
1	2.065.000	6233 43 0
1	2.245.000	6233 44 9
1	2.425.000	6233 45 7
1	2.605.000	6233 46 5
/pc.		



Wide span systems



Wide span cable ladder, side height 200 mm

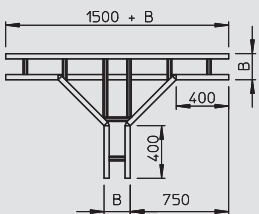


T branch piece

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
WLT 2020 FT	200	1	3,385.000	6233 62 7
WLT 2030 FT	300	1	3,590.000	6233 63 5
WLT 2040 FT	400	1	3,800.000	6233 64 3
WLT 2050 FT	500	1	4,100.000	6233 65 1
WLT 2060 FT	600	1	4,320.000	6233 67 8

ST Steel FT Hot-dip galvanised /pc.

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

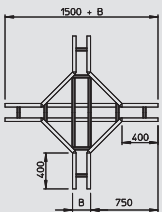


Horizontal cross-over

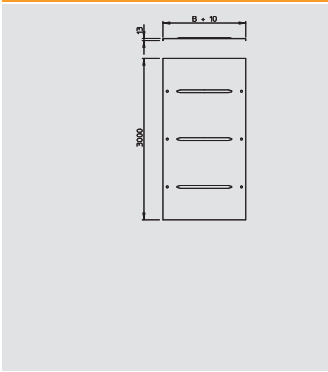
Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
WKLK 2020 FT	200	1	4,675.000	6233 72 4
WKLK 2030 FT	300	1	4,900.000	6233 73 2
WKLK 2040 FT	400	1	5,125.000	6233 74 0
WKLK 2050 FT	500	1	5,480.000	6233 75 9
WKLK 2060 FT	600	1	5,720.000	6233 76 7

ST Steel FT Hot-dip galvanised /pc.

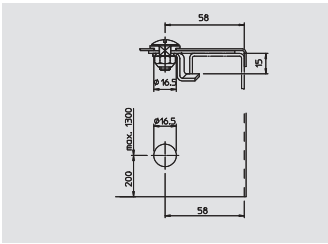
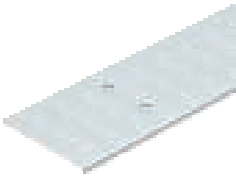
Horizontal cross-over for all wide span cable ladders of 200 mm side height.
For further stabilisation, additional supports should be planned for the area of the fittings.



Accessories for wide span cable ladder 200 mm



				Cover
Type	Width	Length	Weight	Item No.
	mm	mm	kg/100 m	
WKLD 2020 DD	200	3,000	270.000	6232 38 0
WKLD 2030 DD	300	3,000	390.000	6232 38 4
WKLD 2040 DD	400	3,000	507.000	6232 38 8
WKLD 2050 DD	500	3,000	624.000	6232 39 2
WKLD 2060 DD	600	3,000	744.000	6232 39 6
ST Steel	DD Zinc-aluminium coated, double-dip			/m
Cover for wide span cable ladders of side height 200 mm.				
Take appropriate constructive protection measures if there are high wind speeds.				
Transverse bead from 500 mm width				



				Turn-buckle	
Type	Pack.	Weight	Item No.		
	pcs	kg/100 pcs.			
WDR 317 A VA4301		10	2.800	6232 43 4	
V2A	Stainless steel, 1.4301			/pc.	
Turn-buckle for additional installation or installation at a later date in the cover for wide span cable ladders, type WKLD 200.					





Ladder systems

	Light-duty vertical ladder	Vertical ladder length 3.0 m, rung distance 300 mm Vertical ladder length 6.0 m, rung distance 300 mm	300
	Medium-duty vertical ladder	Vertical ladder length 3.0 m, rung distance 300 mm Vertical ladder length 6.0 m, rung distance 300 mm	302
		Light/medium-duty vertical ladder accessories Connector Cover	303
	Heavy-duty vertical ladder with US 5 support	Vertical ladder length 3.0 m, rung distance 600 mm, rung CPS4	304
	Vertical ladder, heavy-duty, modular system	Vertical ladder length 0.2–6.0 m with US 3 support Vertical ladder length 0.2–6.0 m with US 5 support Vertical ladder length 0.2–6.0 m with US 7 support Rung	304 306
	Industrial vertical ladder	With W40 rung, vertical ladder length 6.0 m, rung distance 600 mm With C40 rung, vertical ladder length 6.0 m, rung distance 600 mm	307 307
	Clamp clip	For C profile, slot width 11–12 mm For C profile, slot width 16–17 mm For C profile, slot width 18–22 mm For angular steels For flat iron	310 310 312 313 314

Light-duty vertical ladder



Light-duty vertical ladder, 3,000 mm

Type	Width mm	Rail thickness mm	Length mm	Appr. load:				Weight kg/100 m	Item No.
				2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m		
LG 620 VS 3000FS	200	1.5	3,000	2.0	1.5	1.15	0.45	281.700	6208 53 8
LG 630 VS 3000FS	300	1.5	3,000	2.0	1.5	1.15	0.45	306.000	6208 54 1
LG 640 VS 3000FS	400	1.5	3,000	2.0	1.5	1.15	0.45	330.000	6208 54 4
LG 650 VS 3000FS	500	1.5	3,000	2.0	1.5	1.15	0.45	354.300	6208 54 7
LG 660 VS 3000FS	600	1.5	3,000	2.0	1.5	1.15	0.45	378.300	6208 55 0
LG 620 VS 3000FT	200	1.5	3,000	2.0	1.5	1.15	0.45	298.300	6208 56 2
LG 630 VS 3000FT	300	1.5	3,000	2.0	1.5	1.15	0.45	324.300	6208 56 6
LG 640 VS 3000FT	400	1.5	3,000	2.0	1.5	1.15	0.45	350.000	6208 57 0
LG 650 VS 3000FT	500	1.5	3,000	2.0	1.5	1.15	0.45	376.000	6208 57 4
LG 660 VS 3000FT	600	1.5	3,000	2.0	1.5	1.15	0.45	401.700	6208 57 8

ST Steel FS Strip-galvanised FT Hot-dip galvanised /m

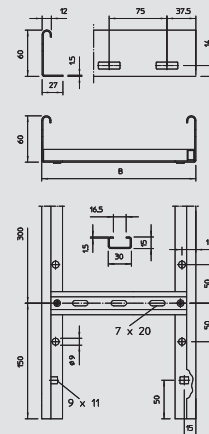
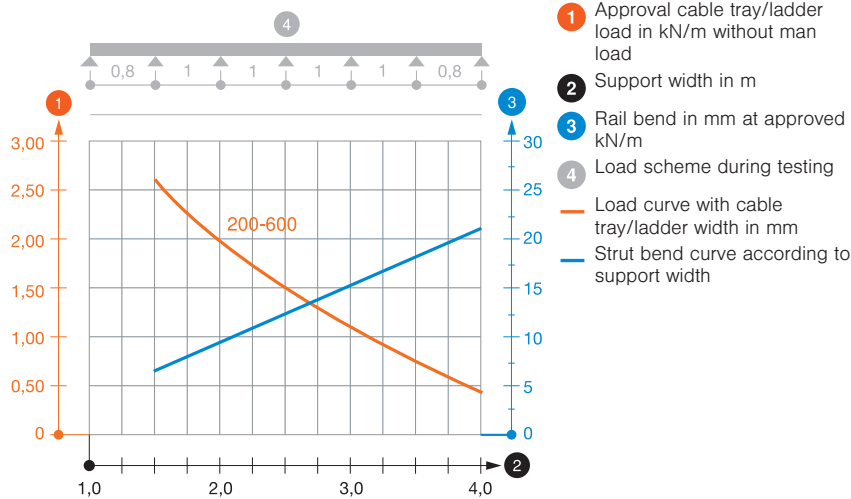
Cable ladder with perforated side rail of side height 60 mm with riveted C profile rungs, open in an upwards direction (VS version).

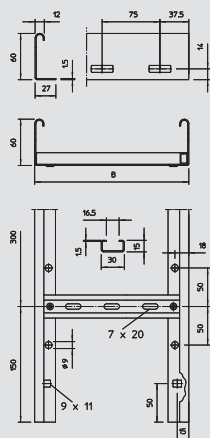
Magnetic shield insulation without cover 10 dB, with cover 15 dB.

The cable ladder is shipped folded up.

You can find the appropriate U clamp of type 2056 in the vertical ladder systems chapter.

Load diagram, LG 60 VS





Light-duty vertical ladder, 6,000 mm



Type	Width mm	Rail thickness mm	Length mm	Appr. load:				Weight kg/100 m	Item No.
				2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m		
LG 620 VS 6000FS	200	1.5	6,000	2.0	1.5	1.15	0.45	273.800	6208 62 7
LG 630 VS 6000FS	300	1.5	6,000	2.0	1.5	1.15	0.45	298.000	6208 63 0
LG 640 VS 6000FS	400	1.5	6,000	2.0	1.5	1.15	0.45	322.200	6208 63 3
LG 650 VS 6000FS	500	1.5	6,000	2.0	1.5	1.15	0.45	346.300	6208 63 6
LG 660 VS 6000FS	600	1.5	6,000	2.0	1.5	1.15	0.45	370.500	6208 63 9
LG 620 VS 6000FT	200	1.5	6,000	2.0	1.5	1.15	0.45	290.000	6208 65 0
LG 630 VS 6000FT	300	1.5	6,000	2.0	1.5	1.15	0.45	315.800	6208 65 3
LG 640 VS 6000FT	400	1.5	6,000	2.0	1.5	1.15	0.45	334.200	6208 65 6
LG 650 VS 6000FT	500	1.5	6,000	2.0	1.5	1.15	0.45	367.500	6208 65 9
LG 660 VS 6000FT	600	1.5	6,000	2.0	1.5	1.15	0.45	393.300	6208 66 1

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /m

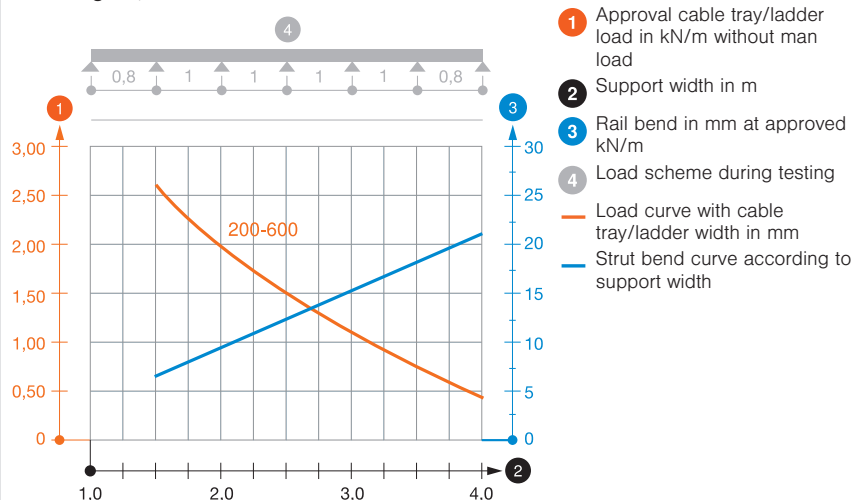
Cable ladder with perforated side rail of side height 60 mm with riveted C profile rungs, open in an upwards direction (VS version).

Magnetic shield insulation without cover 10 dB, with cover 15 dB.

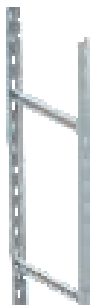
The cable ladder is shipped folded up.

You can find the appropriate clamp clip of type 2056 in the vertical ladder systems section.

Load diagram, LG 60 VS



Medium-duty vertical ladder



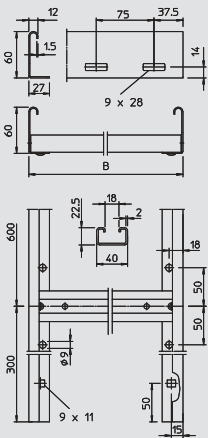
Medium-duty vertical ladder, 6,000 mm

Type	Width mm	Length mm	Weight kg/100 m	Item No.
SLL 620 CPS 4 FS	200	6,000	273.000	6010 62 0
SLL 630 CPS 4 FS	300	6,000	299.500	6010 62 2
SLL 640 CPS 4 FS	400	6,000	325.800	6010 62 4
SLL 650 CPS 4 FS	500	6,000	352.300	6010 62 6
SLL 660 CPS 4 FS	600	6,000	378.800	6010 62 8
SLL 620 CPS 4 FT	200	6,000	286.300	6010 63 0
SLL 630 CPS 4 FT	300	6,000	314.000	6010 63 2
SLL 640 CPS 4 FT	400	6,000	341.700	6010 63 4
SLL 650 CPS 4 FT	500	6,000	369.200	6010 63 6
SLL 660 CPS 4 FT	600	6,000	396.800	6010 63 8

ST Steel
 FS Strip-galvanised
 FT Hot-dip galvanised
 /m

Vertical ladder with perforated side rail of side height 60 mm with riveted C profile rungs, open in an upwards direction.

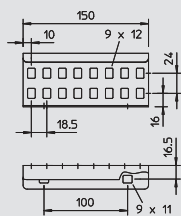
Fastening takes place directly on the wall or using the wall brackets, type WB 30/75. The slot dimension of the rung is 18 mm and the appropriate U clamp is type 2056U.





Type	Colour	Pack. pair	Weight kg/100 pairs	Item No.
SKH 60 OR	Pastel orange	40	1.100	6222 53 7
PE	Polyethylene			/pair

Protective cap to cover cable ladder ends of side height 60 mm.



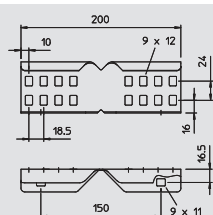
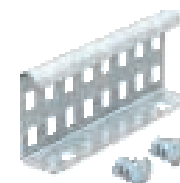
Straight connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LVG 60 FS	60	20	20.000	6208 84 0
LVG 60 FT	60	20	22.000	6208 84 3

ST Steel FS Strip-galvanised FT Hot-dip galvanised

Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.



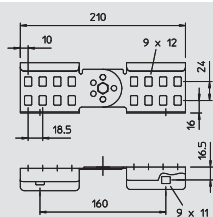
Angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LWVG 60 FS	60	20	24.000	6208 89 5
LWVG 60 VA4301	60	20	24.000	6208 89 8

ST	Steel	V2A	Stainless steel, 1.4301	FS	Strip-galvanised	Bright

Angle connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.



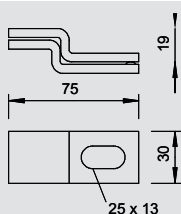
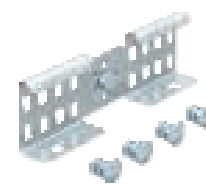
Articulated connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LGVG 60 FS	60	10	27.000	6208 94 1
LGVG 60 FT	60	10	29.000	6208 94 4

ST Steel FS Strip-galvanised FT Hot-dip galvanised

Adjustable connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation. Angle can be adjusted vertically.

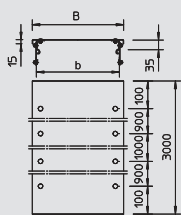
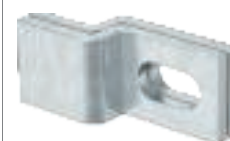
The bolt fastening ensures the continuity of the equipotential bonding.



Wall bracket

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
WB 30 75 FT	10	20.000	6019 61 7
ST Steel	FT Hot-dip galvanised		/pc.

Wall bracket for fastening vertical ladders, type SLL 60, to concrete walls and masonry.



Cover with spacer

Type	Length	Dimension b	Dimension B	Weight	Item No.
	mm	mm	mm		
DRL AB 230 FT SO	3,000	200	230	355.000	7195 25 3
DRL AB 330 FT SO	3,000	300	330	485.000	7195 25 7
DRL AB 430 FT SO	3,000	400	430	610.000	7195 26 1
DRL AB 530 FT SO	3,000	500	530	750.000	7195 26 5
DRL AB 630 FT SO	3,000	600	630	865.000	7195 26 9

ST Steel FT Hot-dip galvanised/SOMY

Cover with spacers for vertical ladders and cable ladders with 60 mm side height.

Set consists of one cover and eight unmounted spacers.

Additional spacers can be ordered individually under the item number 7195273.



Heavy-duty vertical ladder with US 5 support



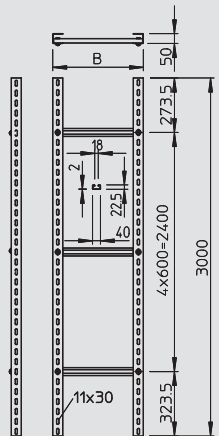
Heavy-duty vertical ladder, 3,000 mm

Type	Width mm	Length mm	Weight kg/100 m	Item No.
SLM 50 C40 2 FT	200	3,000	580.000	6010 46 6
SLM 50 C40 3 FT	300	3,000	615.000	6010 47 4
SLM 50 C40 4 FT	400	3,000	640.000	6010 48 2
SLM 50 C40 5 FT	500	3,000	675.000	6010 49 0
SLM 50 C40 6 FT	600	3,000	695.000	6010 50 4
SLM 50 C40 7 FT	700	3,000	720.000	6010 51 2
SLM 50 C40 8 FT	800	3,000	750.000	6010 52 0
SLM 50 C40 9 FT	900	3,000	775.000	6010 53 9
SLM 50 C40 10 FT	1,000	3,000	805.000	6010 54 7
SLM 50 C40 11 FT	1,100	3,000	835.000	6010 55 5
SLM 50 C40 12 FT	1,200	3,000	860.000	6010 56 3

ST Steel **FT** Hot-dip galvanised /m

Vertical ladder of side height 50 mm with screwed-in C profile rungs, open in an upwards direction.

The ladder is shipped in an unmounted state.
The appropriate U clamp is type 2056U.



US 5 support

Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 20 FT	200	2.5	1	53.000	6340 88 1
US 5 30 FT	300	2.5	1	79.000	6340 90 3
US 5 40 FT	400	2.5	1	106.000	6340 91 1
US 5 50 FT	500	2.5	1	133.000	6340 93 8
US 5 60 FT	600	2.5	1	160.000	6340 94 6
US 5 70 FT	700	2.5	1	175.000	6340 95 0
US 5 80 FT	800	2.5	1	200.000	6340 95 4
US 5 90 FT	900	2.5	1	227.000	6340 95 8
US 5 100 FT	1,000	2.5	1	265.000	6340 96 2
US 5 150 FT	1,500	2.5	1	395.000	6340 96 6
US 5 200 FT	2,000	2.5	1	526.000	6340 97 0
US 5 300 FT	3,000	2.5	1	795.000	6340 98 9
US 5 600 FT	6,000	2.5	1	1,578.000	6340 99 7

ST Steel **FT** Hot-dip galvanised /pc.

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

In the case of bracket mounting on both sides, or when mounting the bracket at the end of the suspended support, use the spacer of type DSK 45.

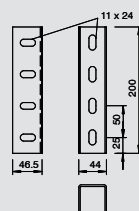


U support connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VUS 5 FT	10	80.000	6018 50 5

ST Steel **FT** Hot-dip galvanised /pc.

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

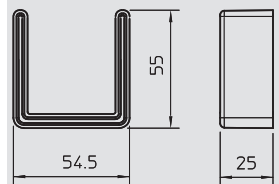


Protective cap

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 KS OR	Pastel orange	20	1.300	6338 46 2

PE Polyethylene /pc.

Protective cap for end covering of US 5 supports.



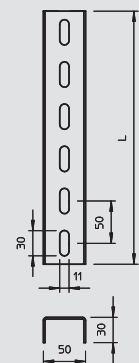
US 3 support

Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 3 600 FT	6,000	2	1	834.300	6342 45 0

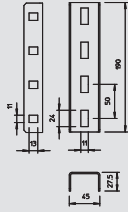
ST Steel **FT** Hot-dip galvanised /pc.

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

In the case of bracket installation on both sides, or when installing the bracket at the end of the support, use the spacer of type DSK 25.

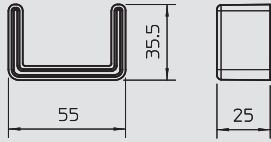


Heavy-duty vertical ladder with US 5 support



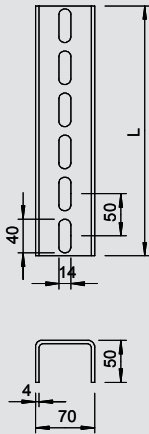
U support connector

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
VUS 3 FT	10	48.000	6018 51 3
ST Steel FT Hot-dip galvanised			/pc.
U support connector to connect US 3 supports. Including appropriate fastening material.			



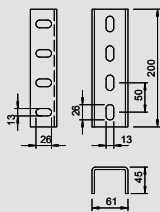
Protective cap

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
US 3 KS OR	Pastel orange	20	1.070	6338 45 8
PE Polyethylene				/pc.
Protective cap to cover the ends of US 3 supports.				



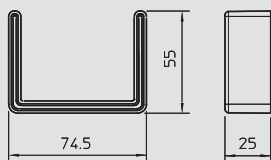
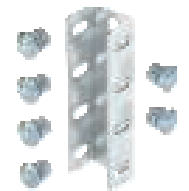
US 7 support

Type	Length	Material thickness	Pack.	Weight	Item No.
	mm	mm	pcs	kg/100 pcs.	
US 7 20 FT	200	4	1	80.000	6340 01 6
US 7 30 FT	300	4	1	120.000	6340 03 2
US 7 40 FT	400	4	1	160.000	6340 05 9
US 7 50 FT	500	4	1	200.000	6340 07 5
US 7 60 FT	600	4	1	240.000	6340 09 1
US 7 70 FT	700	4	1	280.000	6340 11 3
US 7 80 FT	800	4	1	320.000	6340 14 8
US 7 90 FT	900	4	1	360.000	6340 16 4
US 7 100 FT	1,000	4	1	400.000	6340 18 0
US 7 110 FT	1,100	4	1	440.000	6340 19 9
US 7 120 FT	1,200	4	1	480.000	6340 20 2
US 7 130 FT	1,300	4	1	520.000	6340 21 0
US 7 140 FT	1,400	4	1	560.000	6340 22 9
US 7 150 FT	1,500	4	1	600.000	6340 23 7
US 7 160 FT	1,600	4	1	640.000	6340 24 5
US 7 170 FT	1,700	4	1	680.000	6340 25 3
US 7 180 FT	1,800	4	1	720.000	6340 26 1
US 7 190 FT	1,900	4	1	760.000	6340 28 8
US 7 200 FT	2,000	4	1	800.000	6340 29 6
US 7 300 FT	3,000	4	1	1,200.000	6340 37 7
US 7 400 FT	4,000	4	1	1,625.000	6340 39 3
US 7 600 FT	6,000	4	1	2,400.000	6340 31 8
ST Steel FT Hot-dip galvanised					/pc.
U support in fixed lengths. Dimensions 70 x 50 mm. In the case of bracket mounting on both sides, or when mounting the bracket at the end of the suspended support, use the spacer of type DSK 61.					



U support connector

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
VUS 7 FT	10	114.000	6018 37 8
ST Steel FT Hot-dip galvanised			/pc.
U support connector to connect US 7 supports. Including appropriate fastening material.			



Protective cap

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
US 7 KS OR	Pastel orange	20	1.800	6338 49 7
PE Polyethylene				/pc.
Protective cap to cover the ends of US 7 supports.				



Heavy-duty vertical ladder with US 5 support



Rung CPS 4

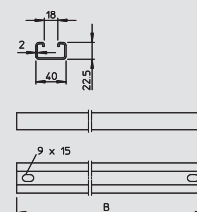
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
CPS 4 SPR 492 FT	492	10	81.500	6007 24 4
CPS 4 SPR 592 FT	592	10	96.000	6007 25 2
CPS 4 SPR 692 FT	692	10	113.000	6007 26 0
CPS 4 SPR 792 FT	792	10	130.000	6007 27 9
CPS 4 SPR 892 FT	892	10	145.000	6007 28 7
CPS 4 SPR 992 FT	992	10	162.000	6007 29 5
CPS 4 SPR1092 FT	1,092	10	178.000	6007 30 9
CPS 4 SPR1192 FT	1,192	10	194.000	6007 31 7

ST Steel **FT** Hot-dip galvanised /pc.

CPS 4 rung for use in heavyweight vertical ladders.

Maximum rung load 175 kg.

The appropriate clamp clip is type 2056U.



Rung seat

Type	Pack. pair	Weight kg/100 pairs	Item No.
SA CPS 4 FT	5	83.600	6007 49 6

ST Steel **FT** Hot-dip galvanised /pair

Rung seat for fastening rungs of type CPS 4 to IS 8 supports.

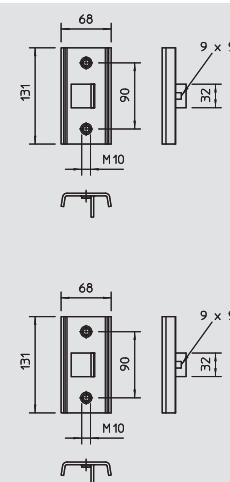
The set consists of two rung seats, two hexagonal bolts M8 x 16 mm and four hexagonal bolts M10 x 25 mm.

Type	Pack. pair	Weight kg/100 pairs	Item No.
SAA CPS 4 FT	5	82.600	6007 49 8

ST Steel **FT** Hot-dip galvanised /pair

Rung seat for fastening rungs of type CPS 4 in steel girders.

The set consists of two head plates, two truss-head bolts M8 x 16 mm and four hexagonal bolts with coned point M10 x 30 mm.



Technical drawing of the 14x70 profile. The left side shows a cross-section with a total width of 14x70. The right side shows a side view with the following dimensions: a top flange width of 80, a web height of 150, a total height of 19x300-5700, and a bottom flange width of 150. The web thickness is 22.5, and the flange thickness is 12. The distance between the flanges is 40.

/m

The appropriate clamp clip is type 2056U.

/m

The appropriate U clamp is type 2056W.

/pc.

Protective cap for end cover of IS 8 supports.

[illegible]

/pc.

Including appropriate fastening material.

/pc.

Maximum rung load 175 kg.

Industrial vertical ladder

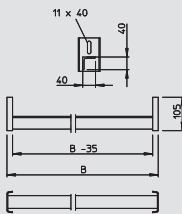


Rung WSK 40

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WSK 40 40 FT	354	4	122.000	6008 04 6
WSK 40 50 FT	454	4	147.000	6008 05 4
WSK 40 60 FT	554	4	172.000	6008 06 2
WSK 40 70 FT	654	4	197.000	6008 07 0
WSK 40 80 FT	754	4	222.000	6008 08 9
WSK 40 90 FT	854	4	245.000	6008 09 7
WSK 40 100 FT	954	4	272.000	6008 10 0
WSK 40 110 FT	1,054	4	296.000	6008 11 9
WSK 40 120 FT	1,154	4	321.000	6008 12 7

ST Steel
 FT Hot-dip galvanised
 /pc.

Angle profile rungs for use in heavy duty vertical ladders and in IS 8 supports.
 Maximum rung load 250 kg.

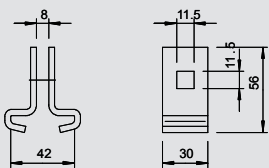


Support claw

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TGK 30 42 FT	10	15.000	6018 96 3

ST Steel
 FT Hot-dip galvanised
 /pc.

Support claw with truss-head bolt, type FRS M10 x 25 for mounting on the IS 8 support.
 The support claw can also be used in conjunction with the heavy-duty ladder, type SLS 80.

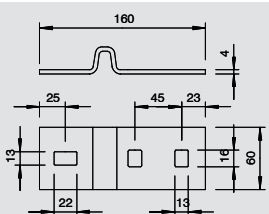


Support strap

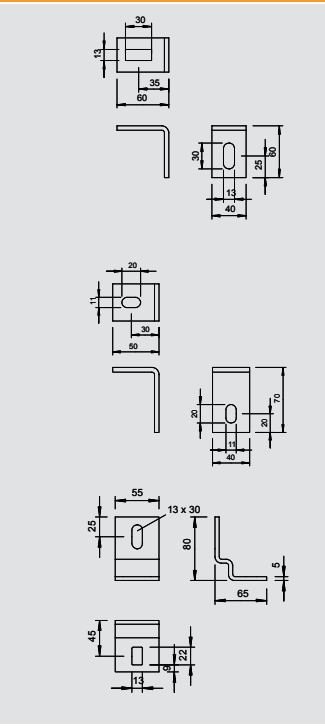
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
AHIS 8 FT	10	88.000	6019 06 4

ST Steel
 FT Hot-dip galvanised
 /pc.

Support strap for right-angled connection of I supports.
 Including appropriate fastening material.



Vertical ladder system accessories 60, US 5, IS 8



Fastening bracket

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
BW 60 40 FT	10	22.000	6019 56 0
ST Steel FT Hot-dip galvanised	/pc.		
Fastening bracket of limb dimension 60 x 60 mm. Including truss-head bolt M12 x 25.			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
BW 70 40 FT	10	22.000	6019 70 6
ST Steel FT Hot-dip galvanised	/pc.		
Fastening bracket of limb dimension 70 x 50 mm. Including truss-head bolt M10 x 25.			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
BW 80 55 FT	10	32.000	6019 52 8
ST Steel FT Hot-dip galvanised	/pc.		
Mounting angle for mounting IS 8 supports on the wall. The mounting angle can also be used in conjunction with the heavy-duty vertical ladder, type SLS 80. Including fastening bolt M12x30.			



Clamp clip



Clamp clip (BBS clamp)

Type	Clamping range D	Dimension H	Dimension L	Dimension t	Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs	kg/100 pcs.	
2056N 12 FT	8-12	34	34	1.5	100	2.500	1163 12 4
2056N 16 FT	12-16	38	34	1.5	100	2.750	1163 16 7
2056N 22 FT	16-22	44	34	1.5	100	3.100	1163 22 1
2056N 28 FT	22-28	51	34	2	100	4.600	1163 28 0
2056N 34 FT	28-34	59	37.5	2	100	5.900	1163 34 5
2056N 40 FT	34-40	66	37.5	2	100	6.300	1163 39 6
2056N 46 FT	40-46	72	37.5	2	100	7.650	1163 46 9
2056N 52 FT	46-52	79	37.5	2	100	8.750	1163 52 3
2056N 58 FT	52-58	86	45.5	2.5	100	11.000	1163 58 2
2056N 64 FT	58-64	92	45.5	2.5	100	12.100	1163 64 7
2056N 70 FT	64-70	99	45.5	2.5	50	13.550	1163 70 1

ST Steel

FT Hot-dip galvanised

/100 pc.

Suitable for all C profile rails with slot width 11–12 mm; at least 6.5 mm clear internal height and at least 18.5 mm clear internal width.

Clip and bolt made of hot-dip galvanised steel.

Polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Version with welding and/or locknuts for use under difficult circumstances and for shake protection on request.

Type	Clamping range D	Dimension H	Dimension L	Dimension t	Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs	kg/100 pcs.	
2056N 2 12 FT	8-12	49	47	1.5	50	3.500	1164 12 0
2056N 2 16 FT	12-16	57	47	1.5	50	3.850	1164 16 3
2056N 2 22 FT	16-22	70	47	1.5	50	4.650	1164 22 8
2056N 2 28 FT	22-28	84	47	2	50	7.500	1164 28 7
2056N 2 34 FT	28-34	97	56.5	2	50	10.050	1164 34 1
2056N 2 40 FT	34-40	110	56.5	2	50	10.050	1164 40 6
2056N 2 46 FT	40-46	124	56.5	2	50	11.050	1164 46 5
2056N 2 52 FT	46-52	137	57.5	2	50	12.400	1164 51 1
2056N 2 58 FT	52-58	150	57.5	2.5	50	15.600	1164 58 9

ST Steel

FT Hot-dip galvanised

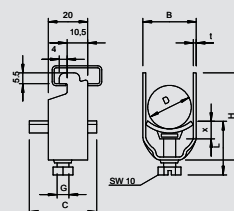
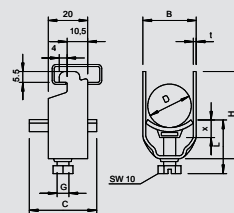
/100 pc.

Suitable for all C profile rails with slot width 11–12 mm; at least 6.5 mm clear internal height and at least 18.5 mm clear internal width.

Clip and bolt made of hot-dip galvanised steel.

Polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Version with welding and/or locknuts for use under difficult circumstances and for shake protection on request.



Clamp clip (BBS clamp)

Type	Clamping range D	Dimension H	Dimension L	Dimension t	Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs	kg/100 pcs.	
2056 12 FT	8-12	40	34	1.5	100	3.540	1160 12 5
2056 16 FT	12-16	44	34	1.5	100	3.820	1160 16 8
2056 22 FT	16-22	50	34	1.5	100	4.508	1160 22 2
2056 28 FT	22-28	58	34	2	100	6.240	1160 28 1
2056 34 FT	28-34	58	34	2	100	7.680	1160 34 6
2056 40 FT	34-40	72	37.5	2	100	8.260	1160 40 0
2056 46 FT	40-46	79	44.5	2	100	10.900	1160 45 1
2056 52 FT	46-52	79	44.5	2	100	11.900	1160 52 4
2056 58 FT	52-58	93	45.5	2.5	100	14.300	1160 58 3
2056 64 FT	58-64	99	45.5	2.5	100	15.600	1160 64 8
2056 70 FT	64-70	106	45.5	2.5	50	18.200	1160 70 2
2056 76 FT	70-76	114	45.5	2.5	25	20.600	1160 76 1
2056 82 FT	76-82	121	45.5	2.5	25	22.000	1160 82 6
2056 90 FT	82-90	130	57.5	3	25	26.200	1160 90 7
2056 100 FT	90-100	140	57.5	3	25	27.800	1160 99 0

ST Steel

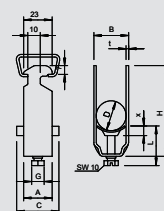
FT Hot-dip galvanised

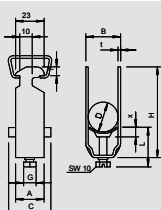
/100 pc.

Suitable for all C profile rails with slot width 16–17 mm.

Hot-dip galvanised steel clip and bolt, polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Version with welding and/or locknuts for use under difficult circumstances and for shake protection on request.





Version with welding and/or locknuts for use under difficult circumstances and for shake protection on request.

Fluor
Chlor
Brom

Version with welding and/or locknuts for use under difficult circumstances and for shake protection on request.



The clamp clips 2056/ALU, in the version for one cable according to VDE 0298-1, are suitable for individual routing of single-wire cables in rotary current networks, as there is no closed circuit. However, the lower mechanical resistance of the aluminium clips must be taken into account for short circuits, i.e. keep the distance between the clips as short as possible in a longitudinal direction and ensure sufficient side spacing between the cables.

Clamp clip



Clamp clip (BBS clamp)

Type	Clamping range D	Dimension H	Dimension L	Dimension t	Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs	kg/100 pcs.	
2056 2 12 ALU	8-12	52	34	1.5	50	1.000	1183 38 9
2056 2 16 ALU	12-16	61	34	1.5	50	1.250	1183 39 7
2056 2 22 ALU	16-22	73	47	1.5	50	1.500	1183 40 0
2056 2 28 ALU	22-28	87	47	2	50	2.000	1183 41 9
2056 2 34 ALU	28-34	101	44.5	2	50	3.200	1183 42 7
2056 2 40 ALU	34-40	114	44.5	2	50	3.750	1183 43 5
2056 2 46 ALU	40-46	129	44.5	2	50	4.850	1183 44 3
2056 2 52 ALU	46-52	142	45.5	2	50	5.300	1183 45 1
2056 2 58 ALU	52-58	154	45.5	2.5	50	6.000	1183 47 8

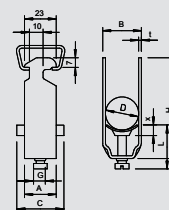
Al Aluminium

/100 pc.

Suitable for all C profile rails with 16–17 mm slot width; aluminium ALMg 3 clamp and bolt, polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

(Metal pressure troughs on request.)

The clamp clips 2056/ALU, in the version for one cable according to VDE 0298-1, are suitable for individual routing of single-wire cables in rotary current networks, as there is no closed circuit. However, the lower mechanical resistance of the aluminium clips must be taken into account for short circuits, i.e. keep the distance between the clips as short as possible in a longitudinal direction and ensure sufficient side spacing between the cables.



Clamp clip (BBS clamp)

Type	Clamping range D	Dimension H	Dimension L	Dimension t	Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs	kg/100 pcs.	
2056 M 12 FT	8-12	40	32.5	1.5	100	3.200	1156 00 4
2056 M 16 FT	12-16	44	32.5	1.5	100	3.500	1156 01 2
2056 M 22 FT	16-22	50	46.5	1.5	100	4.400	1156 02 0
2056 M 28 FT	22-28	58	46.5	2	100	6.100	1156 03 9
2056 M 34 FT	28-34	66	44	2	100	7.700	1156 04 7
2056 M 40 FT	34-40	72	44	2	100	8.600	1156 05 5
2056 M 46 FT	40-46	79	44	2	100	9.600	1156 06 3
2056 M 52 FT	46-52	86	44	2	100	10.400	1156 07 1
2056 M 58 FT	52-58	93	44	2.5	100	13.100	1156 09 8
2056 M 64 FT	58-64	99	56	2.5	100	14.500	1156 10 1
2056 M 70 FT	64-70	106	56	2.5	50	16.100	1156 12 8
2056 M 76 FT	70-76	114	56	2.5	25	18.300	1156 13 6
2056 M 82 FT	76-82	121	56	2.5	25	19.100	1156 14 4
2056 M 90 FT	82-90	130	56	3	25	23.300	1156 15 2
2056 M 100 FT	90-100	140	56	3	25	25.400	1156 16 0

ST Steel

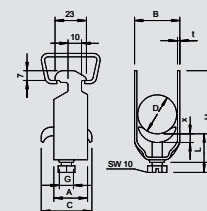
FT Hot-dip galvanised

/100 pc.

Suitable for all C profile rails with slot width 16–17 mm.

Clip, bolt and pressure trough made of hot-dip galvanised steel.

Version with welding and/or locknuts for use under difficult circumstances and for shake protection on request.



Clamp clip (BBS clamp)

Type	Clamping range D	Dimension H	Dimension L	Dimension t	Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs	kg/100 pcs.	
2056U 12 FT	8-12	42	34	1.5	100	3.150	1175 12 2
2056U 16 FT	12-16	46	34	1.5	100	3.600	1175 16 5
2056U 22 FT	16-22	53	34	1.5	100	4.200	1175 21 1
2056U 28 FT	22-28	59	34	2	100	5.800	1175 28 9
2056U 34 FT	28-34	67	37.5	2	100	7.500	1175 34 3
2056U 40 FT	34-40	73	37.5	2	100	8.100	1175 40 8
2056U 46 FT	40-46	79	37.5	2	100	10.000	1175 46 7
2056U 52 FT	46-52	85	38.5	2	100	11.200	1175 52 1
2056U 58 FT	52-58	91	38.5	2.5	100	13.400	1175 58 0
2056U 64 FT	58-64	97	38.5	2.5	100	14.300	1175 64 5
2056U 70 FT	64-70	103	38.5	2.5	50	15.250	1175 69 6
2056U 76 FT	70-76	110	45.5	2.5	25	20.600	1175 76 9
2056U 82 FT	76-82	116	45.5	2.5	25	22.000	1175 82 3
2056U 90 FT	82-90	125	45.5	3	25	26.200	1175 90 4
2056U 100 FT	90-100	135	45.5	3	25	30.000	1175 99 8

ST Steel

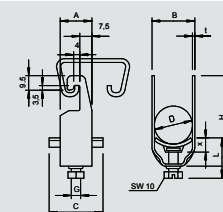
FT Hot-dip galvanised

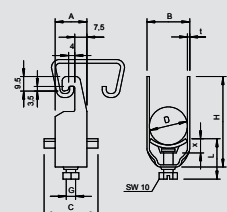
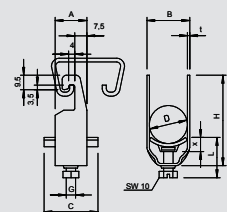
/100 pc.

Suitable for all C profile rails with slot width 18 mm. Also suitable for flat, angular and U irons of 4–12 mm material thickness.

Clip and bolt made of hot-dip galvanised steel.

Polypropylene pressure trough, halogen-free, colour light grey RAL 7035.





Clamp clip (BBS clamp)

Type	Clamping range D	Dimension H	Dimension L	Dimension t	Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs	kg/100 pcs.	
2056U 2 12 FT	8-12	56	34	1.5	50	2.850	1176 12 9
2056U 2 16 FT	12-16	64	34	1.5	50	3.050	1176 16 1
2056U 2 22 FT	16-22	77	47	1.5	50	4.950	1176 22 6
2056U 2 28 FT	22-28	89	47	2	50	6.940	1176 28 5
2056U 2 34 FT	28-34	103	44.5	2	50	9.500	1176 33 1
2056U 2 40 FT	34-40	115	44.5	2	50	11.350	1176 40 4
2056U 2 46 FT	40-46	128	44.5	2	50	11.350	1176 46 3
2056U 2 52 FT	46-52	140	45.5	2	50	15.050	1176 52 8
2056U 2 58 FT	52-58	152	45.5	2.5	50	19.800	1176 58 7

ST Steel **FT** Hot-dip galvanised /100 pc.

Suitable for all C profile rails with slot width 18 mm. Also suitable for flat, angular and U irons of 4-12 mm material thickness.

Clip and bolt made of hot-dip galvanised steel.

Polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Type	Clamping range D	Dimension H	Dimension L	Dimension t	Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs	kg/100 pcs.	
2056U 3 12 FT	8-12	70	47	1.5	50	4.750	1177 12 5
2056U 3 16 FT	12-16	82	47	1.5	50	4.850	1177 16 8
2056U 3 22 FT	16-22	101	47	1.5	50	6.600	1177 22 2
2056U 3 28 FT	22-28	119	47	2	50	10.500	1177 28 1
2056U 3 34 FT	28-34	139	44.5	2	50	13.250	1177 34 6
2056U 3 40 FT	34-40	157	44.5	2	50	14.400	1177 40 0
2056U 3 46 FT	40-46	177	56.5	2	50	18.950	1177 45 1

ST Steel **FT** Hot-dip galvanised /100 pc.

Suitable for all C profile rails with slot width 18 mm. Also suitable for flat, angular and U irons of 4-12 mm material thickness.

Clip and bolt made of hot-dip galvanised steel.

Polypropylene pressure trough, halogen-free, colour light grey RAL 7035.



Clamp clip (BBS clamp)

Type	Clamping range D	Dimension H	Dimension L	Dimension t	Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs	kg/100 pcs.	
2056W 12 FT	8-12	74	27	1.5	100	4.450	1180 12 6
2056W 16 FT	12-16	78	27	1.5	100	4.890	1180 16 9
2056W 22 FT	16-22	85	27	1.5	100	5.700	1180 22 3
2056W 28 FT	22-28	91	27	2	100	7.800	1180 28 2
2056W 34 FT	28-34	99	31.5	2	100	9.400	1180 34 7
2056W 40 FT	34-40	105	31.5	2	100	10.000	1180 40 1
2056W 46 FT	40-46	111	31.5	2	100	12.800	1180 46 0
2056W 58 FT	52-58	123	32.5	2.5	50	17.100	1180 58 4
2056W 64 FT	58-64	130	32.5	2.5	50	18.600	1180 64 9
2056W 52 FT	46-52	117	32.5	2	100	13.600	1180 52 5
2056W 70 FT	64-70	136	32.5	2.5	50	18.500	1180 68 1
2056W 76 FT	70-76	143	38.5	2.5	25	20.600	1180 76 2
2056W 82 FT	76-82	149	38.5	2.5	25	22.000	1180 82 7
2056W 90 FT	82-90	158	38.5	3	25	26.200	1180 90 8

ST Steel **FT** Hot-dip galvanised /100 pc.

Suitable for angular steel of 40 mm limb length.

Clip and bolt made of hot-dip galvanised steel.

Polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Type	Clamping range D	Dimension H	Dimension L	Dimension t	Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs	kg/100 pcs.	
2056W 2 12 FT	8-12	88	34	1.5	50	5.150	1181 12 2
2056W 2 16 FT	12-16	96	34	1.5	50	5.700	1181 16 5
2056W 2 22 FT	16-22	109	34	1.5	50	7.050	1181 21 1
2056W 2 28 FT	22-28	121	34	2	50	10.350	1181 28 9
2056W 2 34 FT	28-34	135	37.5	2	50	11.600	1181 34 3
2056W 2 40 FT	34-40	147	37.5	2	50	12.700	1181 40 8
2056W 2 46 FT	40-46	160	37.5	2	50	16.750	1181 46 7
2056W 2 52 FT	46-52	172	38.5	2	50	18.200	1181 52 1
2056W 2 58 FT	52-58	185	38.5	2.5	50	23.000	1181 58 0

ST Steel **FT** Hot-dip galvanised /100 pc.

Suitable for angular steel of 40 mm limb length.

Clip and bolt made of hot-dip galvanised steel.

Polypropylene pressure trough, halogen-free, colour light grey RAL 7035.



Clamp clip



Clamp clip (BBS clamp)

Type	Clamping range D	Dimension H	Dimension L	Dimension t	Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs	kg/100 pcs.	
2056F 12 FT	8-12	43	34	1.5	100	3.700	1169 12 2
2056F 16 FT	12-16	47	34	1.5	100	3.900	1169 16 5
2056F 22 FT	16-22	54	34	1.5	100	4.500	1169 21 1
2056F 28 FT	22-28	60	34	2	100	6.000	1169 28 9
2056F 34 FT	28-34	68	37.5	2	100	8.000	1169 34 3
2056F 40 FT	34-40	74	37.5	2	100	8.500	1169 40 8
2056F 46 FT	40-46	80	37.5	2	100	10.600	1169 46 7
2056F 52 FT	46-52	86	38.5	2	100	11.700	1169 52 1
2056F 58 FT	52-58	92	38.5	2.5	100	13.050	1169 58 0
2056F 64 FT	58-64	98	38.5	2.5	100	14.800	1169 64 5
2056F 70 FT	64-70	104	38.5	2.5	50	17.700	1169 69 6
2056F 76 FT	70-76	111	45.5	2.5	25	20.600	1169 76 9
2056F 82 FT	76-82	117	45.5	2.5	25	22.000	1169 82 3
2056F 90 FT	82-90	126	45.5	3	25	26.200	1169 90 4

ST Steel

FT Hot-dip galvanised

/100 pc.

Suitable for flat, bracket and U irons of 4–12 mm material thickness.

Clip and bolt made of hot-dip galvanised steel.

Polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Version with welding and/or locknuts for use under difficult circumstances and for shake protection on request.

Type	Clamping range D	Dimension H	Dimension L	Dimension t	Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs	kg/100 pcs.	
2056F 2 12 FT	8-12	57	34	1.5	50	4.250	1170 12 0
2056F 2 16 FT	12-16	65	34	1.5	50	4.550	1170 16 3
2056F 2 22 FT	16-22	78	47	1.5	50	5.200	1170 22 8
2056F 2 28 FT	22-28	90	47	2	50	7.900	1170 28 7
2056F 2 34 FT	28-34	104	44.5	2	50	9.900	1170 34 1
2056F 2 40 FT	34-40	116	44.5	2	50	11.200	1170 40 6
2056F 2 46 FT	40-46	128	44.5	2	50	12.000	1170 46 5
2056F 2 52 FT	46-52	140	45.5	2	50	16.600	1170 51 1

ST Steel

FT Hot-dip galvanised

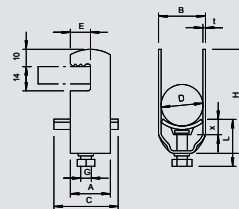
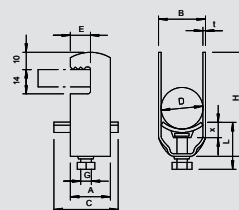
/100 pc.

Suitable for flat, bracket and U irons of 4–12 mm material thickness.

Clip and bolt made of hot-dip galvanised steel.

Polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Version with welding and/or locknuts for use under difficult circumstances and for shake protection on request.



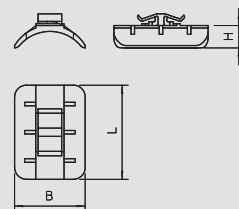
Counter-trough

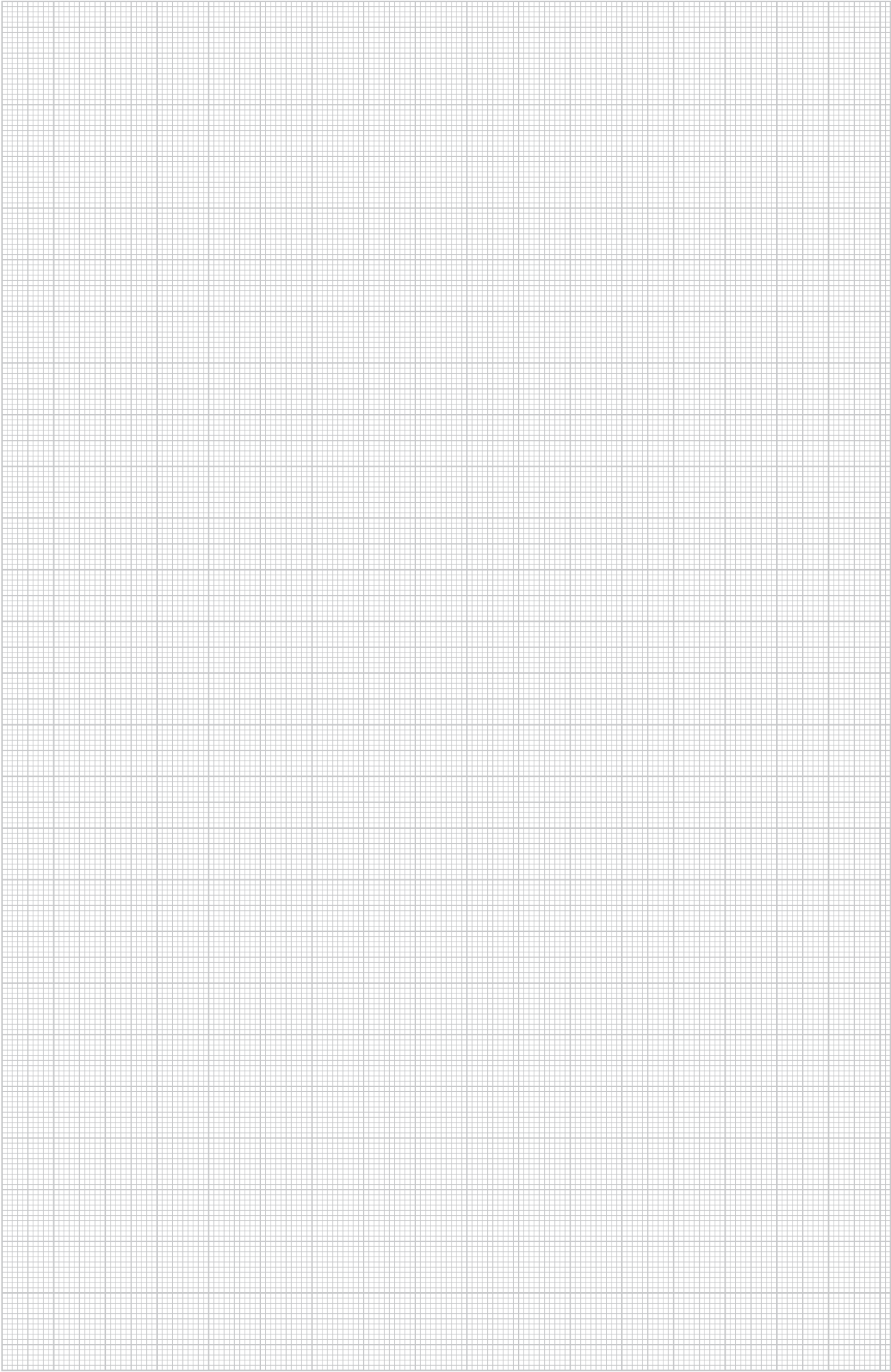
Type	Clamping range D	Box quantity	Pack.	Weight	Item No.
	mm	pcs	pcs	kg/100 pcs.	
2058 12 LGR	8-12	2,700	100	0.177	1195 12 3
2058 16 LGR	12-16	2,700	100	0.189	1195 16 6
2058 22 LGR	16-22	2,700	100	0.187	1195 22 0
2058 28 LGR	22-28	1,800	100	0.244	1195 27 1
2058 34 LGR	28-34	1,200	100	0.303	1195 34 4
2058 40 LGR	34-40	1,200	100	0.325	1195 40 9
2058 46 LGR	40-46	1,200	100	0.409	1195 46 8
2058 52 LGR	46-52	1,200	100	0.442	1195 52 2
2058 58 LGR	52-58	1,200	100	0.486	1195 58 1
2058 64 LGR	58-64	500	50	0.540	1195 64 6
2058 70 LGR	64-70	500	50	0.550	1195 70 0

PP Polypropylene

/100 pc.

Area of use of rails with slot width 16–17 mm. Counter-trough is clamped into the slot width as protection between the cable and rail.

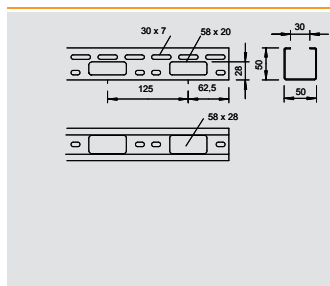






Luminaire support systems

	Luminaire support tray	Luminaire support tray	318
		Connector	318
		Cover with turn-buckle	318
	Luminaire support rail	Luminaire support rail	319
		Connector	319
		Suspension clamp	319
	Accessories	Connection cables	321
		Ceiling brackets	
		Threaded rod	
		Suspension chain	
		Steel wire tensioning cable	
		Perforated steel strap	



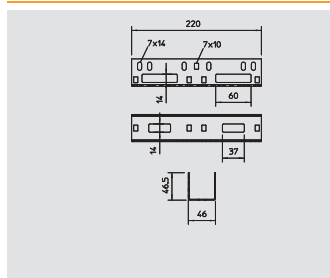
Luminaire support rail



Type	Side height mm	Width mm	Plate thickness mm	Length mm	Weight kg/100 m	Item No.
LTS 50 FS	50	50	1.5	6,000	140.000	6075 00 0
LTS 50 FT	50	50	1.5	6,000	144.100	6075 00 5

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /m

Perforated luminaire support tray for cable routing and luminaire mounting.
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

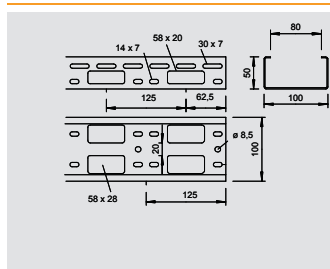


Straight connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VF AZK 50 FS	25	27.200	6066 61 5
VF AZK 50 DD	25	27.200	6066 62 3

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip /pc.

Straight connector for connection of luminaire support trays and AZ channels.
An adjustable connector can be created using two straight and angle connectors.



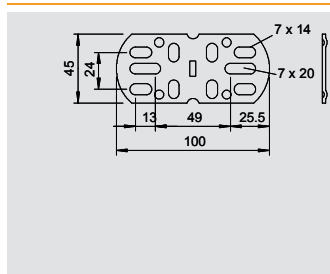
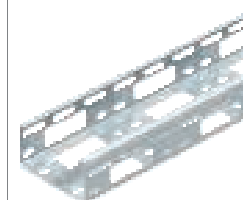
Luminaire support tray



Type	Width mm	Plate thickness mm	Length mm	Weight kg/100 m	Item No.
LTS 100 FS	100	1.5	6,000	177.000	6075 02 4

ST Steel **FS** Strip-galvanised /m

Perforated luminaire support tray for cable routing and luminaire mounting.
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

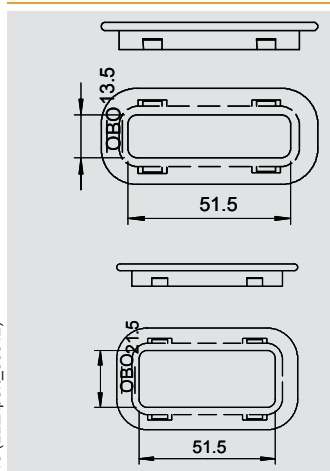


Straight and angle connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VF AZK FT	25	7.500	6066 55 0

ST Steel **FT** Hot-dip galvanised /pc.

Straight and angle connector for connection of AZ channels.
An adjustable connector can be created using two straight and angle connectors. Scope of delivery includes bolts with nut-and-washer assembly.



Cable protection ring

Type	Colour	For perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-910 PE	Light grey	20 x 58	25	0.450	6066 71 2

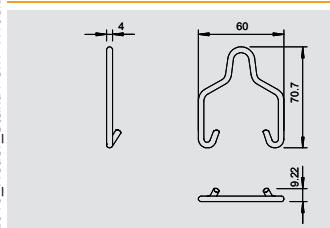
PE Polyethylene /pc.

Cable protection ring for bottom penetrations in cable trays of type DKS, IKS and for side penetrations in AZ channels and luminaire support trays.

Type	Colour	For perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-915 PE	Light grey	28 x 58	25	0.460	6066 70 4

PE Polyethylene /pc.

Cable protection ring for bottom penetrations in AZ channels and luminaire support trays.



Suspension clamp

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
AHB FT	50	1.800	6066 50 5

ST Steel **F** Hot-dip galvanised /100 pc.

Suspension clamp for chain fixing of the luminaire support tray, type LTS.



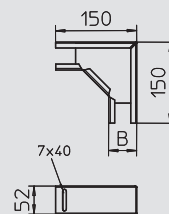
Luminaire support tray



90° bend

Type	Side height mm	Width mm	Weight kg/100 pcs.	Item No.
LTS B DD	50	50	35.700	6074 90 1
ST Steel		DD Zinc-aluminium coated, double-dip		/pc.

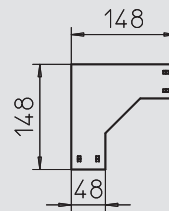
90° bend, horizontal, for luminaire support tray LTS 50.



Cover for 90° bend

Type	Side height mm	Width mm	Weight kg/100 pcs.	Item No.
LTS DFB DD	50	50	10.000	6074 95 2
ST Steel		DD Zinc-aluminium coated, double-dip		/pc.

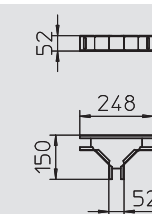
Cover for 90° bend.



T piece

Type	Side height mm	Width mm	Weight kg/100 pcs.	Item No.
LTS T DD	50	50	46.500	6074 91 2
ST Steel		DD Zinc-aluminium coated, double-dip		/pc.

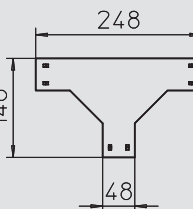
T piece, horizontal, for luminaire support tray LTS 50.



Cover for T piece

Type	Side height mm	Width mm	Weight kg/100 pcs.	Item No.
LTS DFT DD	50	50	15.000	6074 96 1
ST Steel		DD Zinc-aluminium coated, double-dip		/pc.

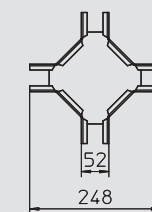
Cover for T piece.



Horizontal cross-over

Type	Side height mm	Width mm	Weight kg/100 pcs.	Item No.
LTS K DD	50	50	57.000	6074 92 1
ST Steel		DD Zinc-aluminium coated, double-dip		/pc.

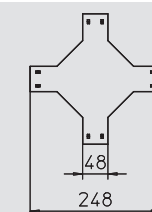
Horizontal cross-over for luminaire support tray LTS 50.



Cover for horizontal cross-over

Type	Side height mm	Width mm	Weight kg/100 pcs.	Item No.
LTS DFK DD	50	50	20.600	6074 97 2
ST Steel		DD Zinc-aluminium coated, double-dip		/pc.

Cover for horizontal cross-over.



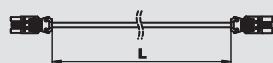


Connection cable

Type	Cable length mm	Cross-section mm ²	Number of poles	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VL-3Q1.5 3 SW	3,000	1.5	3	Black	1	42.000	6108 10 2
VL-3Q1.5 5 SW	5,000	1.5	3	Black	1	70.000	6108 10 4
VL-3Q1.5 10 SW	10,000	1.5	3	Black	1	140.000	6108 10 9
VL-3Q1.5 15 SW	15,000	1.5	3	Black	1	210.000	6108 11 4

/pc.

Connection cable 3 x 1.5 mm² in the version socket – connector with GST18i connection system.

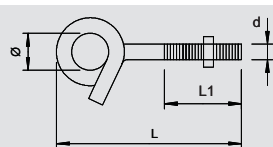


Type	Cable length mm	Cross-section mm ²	Number of poles	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
VL-3Q2.5 3 SW	3,000	2.5	3	Black	1	54.000	6108 15 2
VL-3Q2.5 5 SW	5,000	2.5	3	Black	1	90.000	6108 15 4
VL-3Q2.5 10 SW	10,000	2.5	3	Black	1	180.000	6108 15 9
VL-3Q2.5 15 SW	15,000	2.5	3	Black	1	270.000	6108 16 4

/pc.

Connection cable 3 x 2.5 mm² in the version socket – connector with GST18i connection system.

You can find an additional large selection of connection cables in our EGS catalogue.



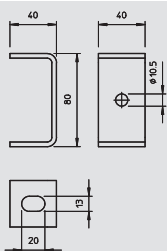
Ceiling hook

Type	Thread	Dimension d mm	Dimension L mm	Dimension L1 mm	Dimension d Ø mm	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
948 TG6	M6	6	70	46	13	1	25	5.000	3453 82 0

ST Steel**G** Electrogalvanised

/100 pc.

Tightly wound ceiling hook. Including two large washers and nuts.



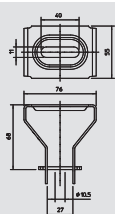
Ceiling bracket

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DB FT	50	16.000	6356 10 9

ST Steel**FT** Hot-dip galvanised

/pc.

Ceiling bracket for threaded rod suspension.



Ceiling bracket, variable

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DBV FS	20	18.200	6356 05 5

ST Steel**FS** Strip-galvanised

/pc.

Ceiling bracket for suspension with threaded rods. The variable adjustment permits universal use.

The locked threaded rod seat offers the option of infinite angle adjustment.



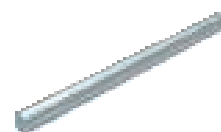
Threaded rod

Type	Thread	Dimension d mm	Dimension L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2078 M8 1M G	M8	8	1,000	50	30.000	3141 12 8
2078 M10 1M G	M10	10	1,000	25	49.000	3141 20 9
2078 M12 1M G	M12	12	1,000	20	100.000	3141 30 6
2078 M8 2M G	M8	8	2,000	25	60.000	3141 13 6
2078 M10 2M G	M10	10	2,000	25	98.000	3141 14 0
2078 M12 2M G	M12	12	2,000	20	140.000	3141 14 4

ST Steel**G** Electrogalvanised

/100 pc.

Threaded rod to DIN 976.



Accessories

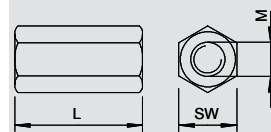


Connection sleeve

Type	Thread	Dimension M	Dimension L	SW	Pack.	Weight	Item No.
			mm	mm	pcs	kg/100 pcs.	
12005 M8 G	M8	8	30	13	50	2.000	6410 08 1
12005 M10 G	M10	10	40	17	50	6.000	6410 10 3
12005 M12 G	M12	12	40	19	25	7.000	6410 11 1

ST Steel **G** Electrogalvanised /100 pc.

Connection sleeve with continuous internal thread.



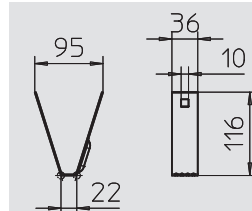
Trapezoidal ceiling bracket

Type	Material thickness	Support load	Pack.	Weight	Item No.
	mm	kN	pcs	kg/100 pcs.	
TPB 100 FS	1.5	0.8	50	9.900	6357 50 6

ST Steel **FS** Strip-galvanised /pc.

Ceiling bracket for fastening to standard trapezoidal ceilings.

Important: observe the statics of the trapezoidal metal ceiling.



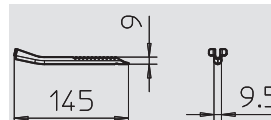
Bolt for trapezoidal ceiling bracket

Type	Material thickness	Breaking load	Pack.	Weight	Item No.
	mm	kN	pcs	kg/100 pcs.	
TPB R FS	1.5	0.8	1	3.700	6357 53 6

ST Steel **FS** Strip-galvanised /pc.

Bolt for fastening and securing the trapezoidal suspension to trapezoidal ceilings.

Important: Observe the statics of the trapezoidal metal ceiling.

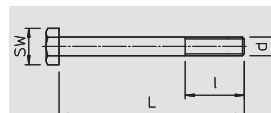


Hexagonal bolt

Type	Dimension	Dimension L	Dimension I	Dimension d	SW	Pack.	Weight	Item No.
	mm	mm	mm	mm	mm	pcs	kg/100 pcs.	
SKS 10X110 G	M10 x 110	110	30	10	17	25	9.500	6418 24 4

ST Steel **G** Electrogalvanised /pc.

Hexagonal bolt with washers and hexagonal nut.



Suspension chain

Type	Material thickness	Pack.	Weight	Item No.
	mm	m	kg/100 m	
LTK-K 10 G	2.6	10	19.000	6050 36 0
LTK-K 25 G	2.6	25	19.000	6050 37 0

ST Steel **G** Electrogalvanised /m

Chain for suspending luminaire support systems.



Chain emergency element

Type	Material thickness	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
KNG G	4	100	0.700	6050 37 5

ST Steel **G** Electrogalvanised /100 pc.

Chain emergency link for connecting the chain, type LTK.



Steel wire tensioning rope

Type	Cable diameter	Breaking load	In rings	Weight	Item No.
	mm	kN	m	kg/100 m	
957 3 G	3	5.29	50	3.220	5303 20 6

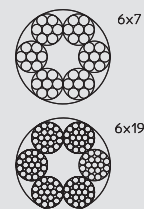
ST Steel **G** Electrogalvanised /100 m

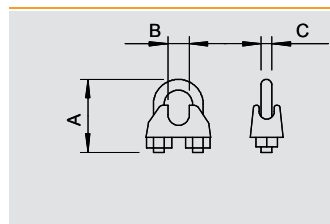
Steel wire tensioning rope, galvanised with fibre inlay (hemp core).

Cable Ø 2–6 mm: Round flexible cable 6 x 7 to DIN 3055.

Cable Ø 8–10 mm: Round flexible cable 6 x 19 to DIN 3060.

Minimum break load 1,770 N/mm².





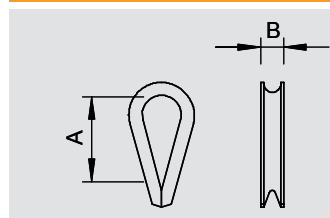
Wire cable clamp

Type	For rope Ø mm	Dimension A mm	Dimension B mm	Dimension C mm	Pack. pcs	Weight kg/100 pcs.	Item No.
947 3 F	3	20	4	4	25	1.061	5302 02 1

TG Cast iron **F** Hot-dip galvanised

/100 pc.

Wire cable clamp for fastening steel wire tensioning ropes.



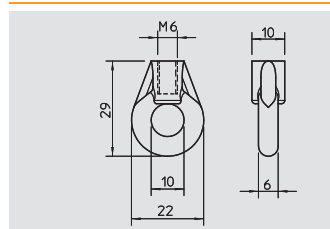
Cable eye stiffener

Type	For rope Ø mm	Dimension A mm	Dimension B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
946 3 G	3	21.5	4	25	0.345	5301 03 3

ST Steel **G** Electrogalvanised

/100 pc.

Cable eye stiffener to DIN 65457.



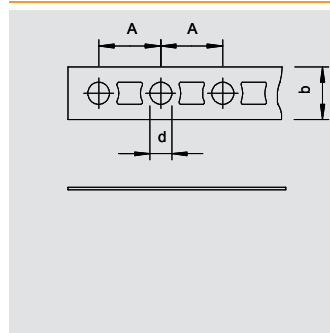
Ring eyelet

Type	Thread	Dimension D mm	Dimension d Ø mm	Dimension L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2084 K M6	M6	22	10	29	100	1.500	3463 06 0

Zn Die-cast zinc **G** Electrogalvanised

/100 pc.

Ring eyelet with metric internal thread.



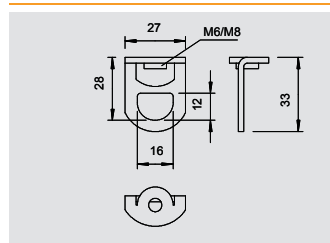
Perforated steel strap

Type	Dimension mm	Per roll m	Weight kg/100 pcs.	Item No.
5055 I FS	12 x 1	10	73.000	1470 12 4
5055 II FS	17 x 1	10	106.000	1470 17 5
5055 III FS	26 x 1.2	10	204.500	1470 26 4
5055 L I 12	12 x 0.75	10	59.000	1471 12 0
5055 L II 17	17 x 0.75	10	84.200	1471 17 1
5055 L III 26	26 x 1	10	172.300	1471 26 0

ST Steel **FS** Strip-galvanised

/pc.

Perforated steel strap, in practical uncoiling box.



TS suspension eyelet

Type	Thread	Breaking load kN	Box quantity pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
2990 M6 G	M6	3.5	500	50	2.320	3462 86 2
2990 M8 G	M8	3.5	500	50	2.320	3462 88 9

ST Steel **G** Electrogalvanised

/100 pc.

Suspension eyelet with interior thread.





Modular systems

	AZ small duct	Side height 50 mm	326
	Accessories	Connector Cable protection ring Cover Cover clamp	326
	Motor connection column	Motor connection column Cover Column foot Mounting bracket Device plate	328 328
	Construction kit	Basic profile, standard Basic profile without side perforation Basic profile with side perforation	329 329 330
	Accessories	Connector Truss-head bolt	330 331

AZ small duct



AZ small duct system 50

Type	Width mm	Plate thickness mm	Length mm	Weight kg/100 m	Item No.
AZK 050 FS	50	1.5	3,000	140.000	6075 09 6
AZK 050 FT	50	1.5	3,000	144.100	6075 14 2

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised

/m

AZ channel with a side height of 50 mm.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.

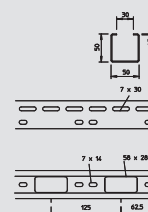
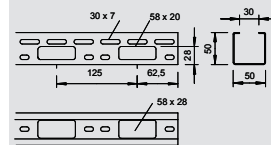
Type	Width mm	Plate thickness mm	Length mm	Weight kg/100 m	Item No.
AZK A 050 FT	50	1.5	3,000	135.000	6076 14 9

ST Steel **FT** Hot-dip galvanised

/m

AZ channel with a side height of 50 mm.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.



AZ small duct system 100

Type	Width mm	Plate thickness mm	Length mm	Weight kg/100 m	Item No.
AZK 100 FS	100	1.5	3,000	177.000	6075 23 1
AZK 100 FT	100	1.5	3,000	188.000	6075 25 8

ST Steel **FS** Strip-galvanised **FT** Hot-dip galvanised

/m

AZ channel with a side height of 50 mm.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.

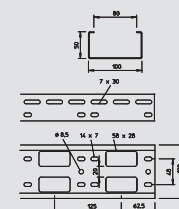
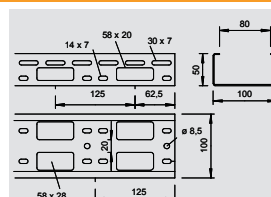
Type	Width mm	Plate thickness mm	Length mm	Weight kg/100 m	Item No.
AZK A 100 FT	100	1.5	3,000	206.000	6076 24 6

ST Steel **FT** Hot-dip galvanised

/m

AZ channel with a side height of 50 mm.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.



Straight connector

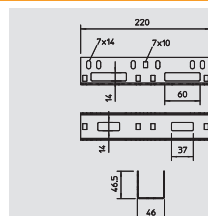
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
VF AZK 50 FS	25	27.200	6066 61 5
VF AZK 50 DD	25	27.200	6066 62 3

ST Steel **FS** Strip-galvanised **DD** Zinc-aluminium coated, double-dip

/pc.

Straight connector for connection of luminaire support trays and AZ channels.

An adjustable connector can be created using two straight and angle connectors.



Straight and angle connector

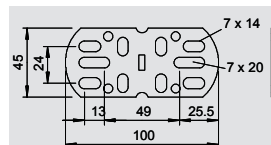
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
VF AZK FT	25	7.500	6066 55 0

ST Steel **FT** Hot-dip galvanised

/pc.

Straight and angle connector for connection of AZ channels.

An adjustable connector can be created using two straight and angle connectors. Scope of delivery includes bolts with nut-and-washer assembly.



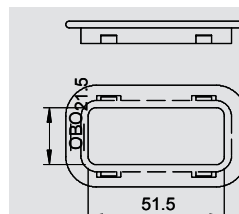
Cable protection ring

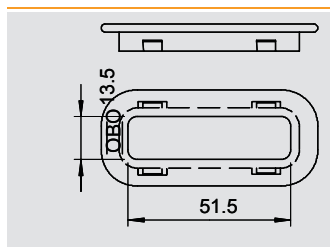
Type	Colour	For perforation mm	Pack.	Weight	Item No.
			pcs	kg/100 pcs.	
KSR-915 PE	Light grey	28 x 58	25	0.460	6066 70 4

PE Polyethylene

/pc.

Cable protection ring for bottom penetrations in AZ channels and luminaire support trays.





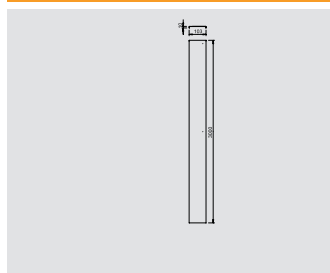
Cable protection ring

Type	Colour	For perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-910 PE	Light grey	20 x 58	25	0.450	6066 71 2

PE Polyethylene

/pc.

Cable protection ring for bottom penetrations in cable trays of type DKS, IKS and for side penetrations in AZ channels and luminaire support trays.



Cover, unperforated

Type	Width mm	Length mm	Weight kg/100 m	Item No.
AZDU 50 DD	53	3,000	55.000	6080 15 8
AZDU 100 DD	103	3,000	93.300	6080 23 9

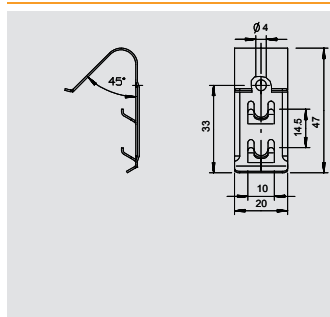
ST Steel

DD Zinc-aluminium coated, double-dip

/m

Cover without turn-buckles for AZ channel.

To fasten the cover, use the cover clamp, type DKU.



Cover clamp

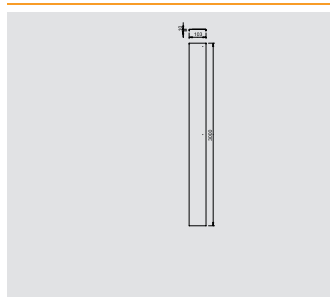
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DKU 60 VA4310	60	0.650	6065 60 0
DKU 120 VA4310	120	0.650	6065 61 0

V2A Stainless steel, 1.4310

/100 pc.

Cover clamp for universal fastening of covers on cable trays, mesh cable trays and AZ small ducts.

Depending on the tray width, 4–6 cover clamps are required for secure fastening of a 3 m cover.



Cover with turn-buckle

Type	Width mm	Length mm	Weight kg/100 m	Item No.
AZDMD 50 FS	53	3,000	75.000	6080 13 8
AZDMD 100 FS	103	3,000	112.000	6080 22 7
AZDMD 50 DD	53	3,000	58.300	6080 15 4
AZDMD 100 DD	103	3,000	101.700	6080 23 5

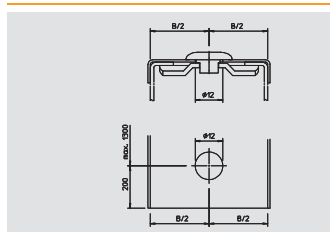
ST Steel

FS Strip-galvanised

DD Zinc-aluminium coated, double-dip

/m

Cover with turn-buckle for AZ channel.



Turn-buckle

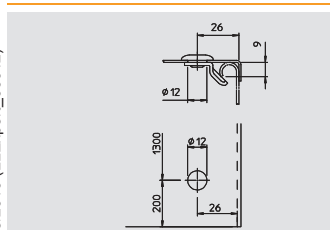
Type	For width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
AZDR 50 FT	50	20	2.000	6065 11 2

ST Steel

FT Hot-dip galvanised

/pc.

Turn-buckle for installation in the cover for AZ channel and BKK system at a later date.



Turn-buckle

Type	For width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
AZDR 100 FT	100	20	1.100	6065 10 4

ST Steel

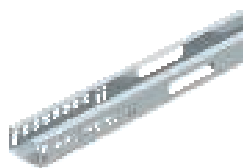
FT Hot-dip galvanised

/pc.

Turn-buckle for installation in the cover for AZ channel and BKK system at a later date.



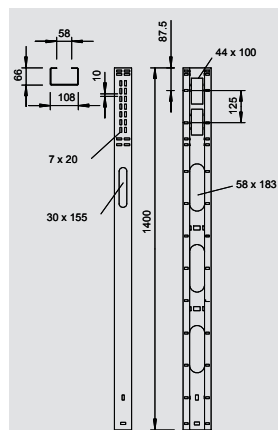
Motor connection column



Motor connection column

Type	Length	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
MAS 140 10 FT	1,400	1	500.000	6356 31 1
ST Steel FT Hot-dip galvanised				/pc.

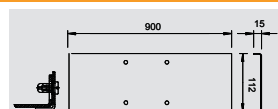
Vertical motor connection column to supply electrical devices.



Cover for motor connection column

Type	Length	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
MASD 90 FT	900	1	160.000	6356 91 5
ST Steel FT Hot-dip galvanised				/pc.

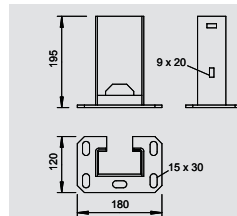
Cover with turn-buckle for motor connection column.



Column foot

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
SF 140 11 FT	1	200.000	6356 39 7
ST Steel FT Hot-dip galvanised			/pc.

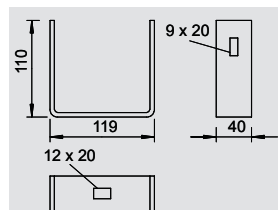
Column foot for fastening of the motor connection column.



Mounting bracket

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
BF 140 10 FT	25	52.900	6356 36 2
ST Steel FT Hot-dip galvanised			/pc.

Mounting bracket for side fastening of motor connection columns to bases or on the wall.



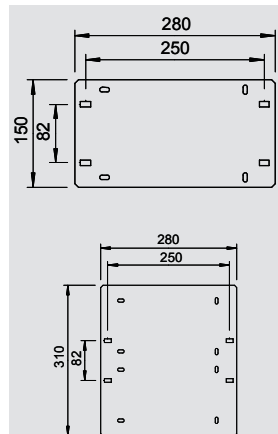
Device plate

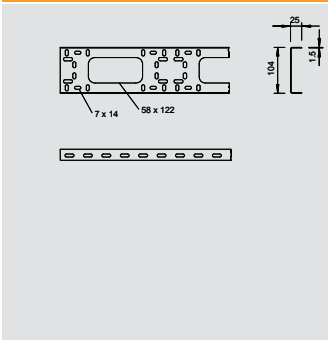
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
GP 15 28 FT	1	102.000	6357 00 8
ST Steel FT Hot-dip galvanised			/pc.

Device plate for fastening to motor connection column, type MAS 140/10.

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
GP 31 28 FT	1	210.000	6357 01 6
ST Steel FT Hot-dip galvanised			/pc.

Device plate for fastening to motor connection column, type MAS 140/10.



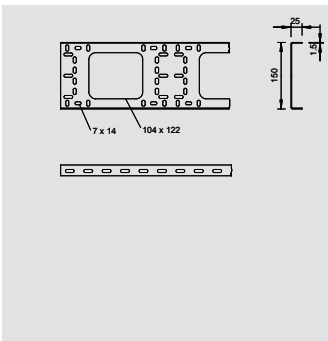
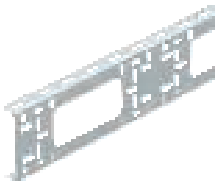


BKK basic profile, standard

Type	Plate thickness mm	Dimension mm	Length mm	Weight kg/100 m	Item No.
BKK 104 FT	1.5	104 x 25	3,000	132.600	6070 24 8
ST Steel	FT	Hot-dip galvanised		/m	

BKK basic profile, perforated, for creation of individual cable trays.

The BKK basic profiles are the basis for a modular system, which is primarily used for large industrial and commercial systems. In particular in locations where the largest possible unsupported support spacings with high load capacities per running metre of tray are required along with building-related, individual adjustments to local conditions. The BKK basic profiles can always be used for cable tray combinations of side and bottom profiles.

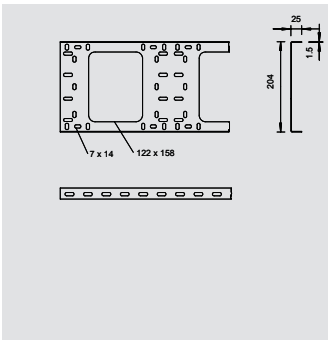


BKK basic profile, standard

Type	Plate thickness mm	Dimension mm	Length mm	Weight kg/100 m	Item No.
BKK 150 FT	1.5	150 x 25	3,000	160.300	6070 34 5
ST Steel	FT	Hot-dip galvanised		/m	

BKK basic profile, perforated, for creation of individual cable trays.

The BKK basic profiles are the basis for a modular system, which is primarily used for large industrial and commercial systems. In particular in locations where the largest possible unsupported support spacings with high load capacities per running metre of tray are required along with building-related, individual adjustments to local conditions. The BKK basic profiles can always be used for cable tray combinations of side and bottom profiles.

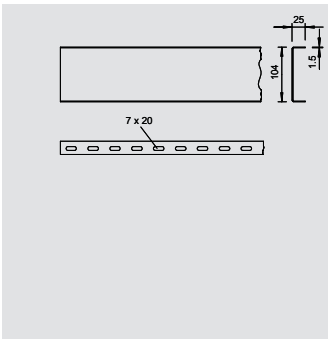


BKK basic profile, standard

Type	Plate thickness mm	Dimension mm	Length mm	Weight kg/100 m	Item No.
BKK 200 FT	1.5	200 x 25	3,000	229.000	6070 44 2
ST Steel	FT	Hot-dip galvanised		/m	

BKK basic profile, perforated, for creation of individual cable trays.

The BKK basic profiles are the basis for a modular system, which is primarily used for large industrial and commercial systems. In particular in locations where the largest possible unsupported support spacings with high load capacities per running metre of tray are required along with building-related, individual adjustments to local conditions. The BKK basic profiles can always be used for cable tray combinations of side and bottom profiles.

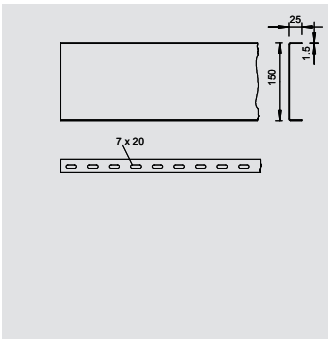


BKK profile, without side perforations, A series

Type	Plate thickness mm	Dimension mm	Length mm	Weight kg/100 m	Item No.
BKK A 104 FT	1.5	104 x 25	3,000	185.300	6071 24 4
ST Steel	FT	Hot-dip galvanised		/m	

BKK basic profile for creation of individual cable trays.

The BKK basic profiles are the basis for a modular system, which is primarily used for large industrial and commercial systems. In particular in locations where the largest possible unsupported support spacings with high load capacities per running metre of tray are required along with building-related, individual adjustments to local conditions. The BKK basic profiles can always be used for cable tray combinations of side and bottom profiles.

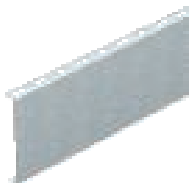


BKK profile, without side perforations, A series

Type	Plate thickness mm	Dimension mm	Length mm	Weight kg/100 m	Item No.
BKK A 150 FT	1.5	150 x 25	3,000	233.600	6071 34 1
ST Steel	FT	Hot-dip galvanised		/m	

BKK basic profile for creation of individual cable trays.

The BKK basic profiles are the basis for a modular system, which is primarily used for large industrial and commercial systems. In particular in locations where the largest possible unsupported support spacings with high load capacities per running metre of tray are required along with building-related, individual adjustments to local conditions. The BKK basic profiles can always be used for cable tray combinations of side and bottom profiles.



Construction kit

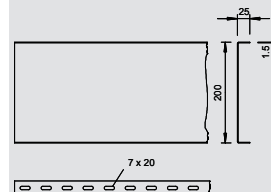


BKK profile, without side perforations, A series

Type	Plate thickness mm	Dimension mm	Length mm	Weight kg/100 m	Item No.
BKK A 200 FT	1.5	200 x 25	3,000	303.300	6071 44 9
ST Steel	FT Hot-dip galvanised				/m

BKK basic profile for creation of individual cable trays.

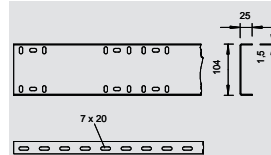
The BKK basic profiles are the basis for a modular system, which is primarily used for large industrial and commercial systems. In particular in locations where the largest possible unsupported support spacings with high load capacities per running metre of tray are required along with building-related, individual adjustments to local conditions. The BKK basic profiles can always be used for cable tray combinations of side and bottom profiles.



BKK basic profile, with connector perforation, B series

Type	Plate thickness mm	Dimension mm	Length mm	Weight kg/100 m	Item No.
BKK B 104 FT	1.5	104 x 25	3,000	178.300	6072 24 0
ST Steel	FT Hot-dip galvanised				/m

BKK basic profile for creation of individual cable trays.

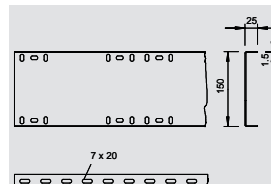


BKK basic profile, with connector perforation, B series

Type	Plate thickness mm	Dimension mm	Length mm	Weight kg/100 m	Item No.
BKK B 150 FT	1.5	150 x 25	3,000	233.000	6072 34 8
ST Steel	FT Hot-dip galvanised				/m

BKK basic profile for creation of individual cable trays.

The BKK basic profiles are the basis for a modular system, which is primarily used for large industrial and commercial systems. In particular in locations where the largest possible unsupported support spacings with high load capacities per running metre of tray are required along with building-related, individual adjustments to local conditions. The BKK basic profiles can always be used for cable tray combinations of side and bottom profiles.

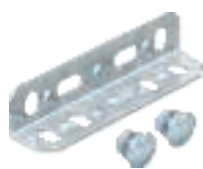
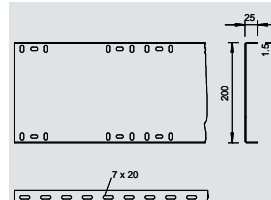


BKK basic profile, with connector perforation, B series

Type	Plate thickness mm	Dimension mm	Length mm	Weight kg/100 m	Item No.
BKK B 200 FT	1.5	200 x 25	3,000	299.300	6072 44 5
ST Steel	FT Hot-dip galvanised				/m

BKK basic profile for creation of individual cable trays.

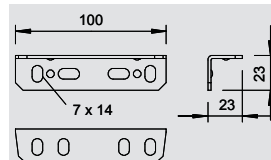
The BKK basic profiles are the basis for a modular system, which is primarily used for large industrial and commercial systems. In particular in locations where the largest possible unsupported support spacings with high load capacities per running metre of tray are required along with building-related, individual adjustments to local conditions. The BKK basic profiles can always be used for cable tray combinations of side and bottom profiles.



Joint connector

Type	Plate thickness mm	Dimension mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SSV FT	2	23 x 23 x 100	25	8.700	6066 04 6
ST Steel	FT Hot-dip galvanised				/pc.

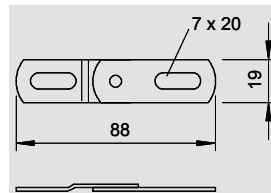
Joint connector for horizontal connection of BKK basic profiles. Including appropriate fastening material.

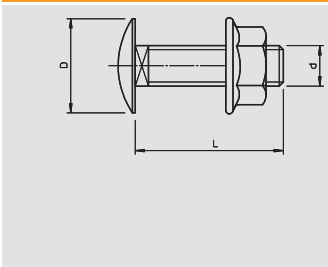


Hinge connector

Type	Plate thickness mm	Dimension mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SV DD	2	86 x 23	50	3.300	6066 94 1
ST Steel	DD Zinc-aluminium coated, double-dip				/pc.

Hinge connector for vertical bend connections of BKK systems. Including appropriate fastening material.





Truss-head bolt								
Type	Grade	Dimension mm	Dimension L mm	Dimension d mm	Dimension D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRSB 6X12 F	5.6	M6 x 12	12	6	13.5	100	0.990	6406 12 2
FRSB 6X15 F	5.6	M6 x 15	15	6	13.5	100	0.800	6406 15 7
FRSB 6X20 F	5.6	M6 x 20	20	6	13.5	100	1.000	6406 20 3
ST Steel F Hot-dip galvanised /100 pc.								
Truss-head bolt with square neck including nut-and-washer assembly.								





Stainless steel systems

	V2A components, material no. 1.4301	Suspended support	336
		Bracket	342
		Profile rails	345
		Angular steel	
		Bolts	
		Anchors	
		Cable trays	348
		Mesh cable trays	357
		C mesh cable trays	363
		Cable ladders	365
		Wide span cable ladders	368
		Vertical ladders	373
		AZ small duct	375
		BKK basic profile	376



V2A components, material no. 1.4301



TP wall and ceiling bracket

Type	Width mm	For width mm	F in kN Wall	F in kN ceiling	Pack. pcs	Weight kg/100 pcs.	Item No.
TPDG 145 VA4301	145	100	1.4	1.3	6	53.000	6365 98 9
TPDG 195 VA4301	195	150	1.05	0.95	6	60.000	6365 99 1
TPDG 245 VA4301	245	200	0.87	0.8	5	67.000	6365 99 3
TPDG 345 VA4301	345	300	0.55	0.5	5	81.000	6365 99 5

V2A Stainless steel, 1.4301

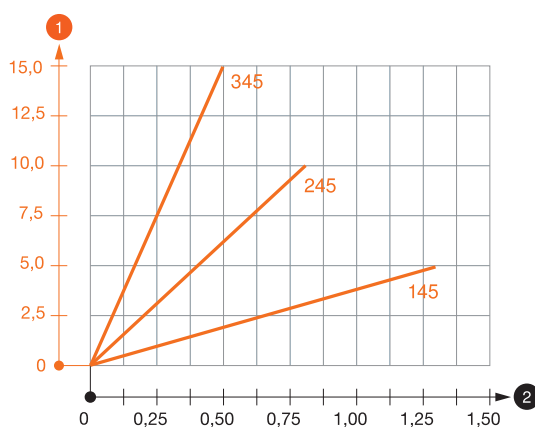
/pc.

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

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

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

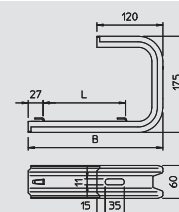
Load diagram, ceiling bracket TPDG



- 1 Bending of the bracket point at approved bracket load
 - 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm

Characteristic anchor load values for TPDG wall and ceiling bracket

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



TP suspended support

Type	Length mm	F in kN	Pack. pcs	Weight kg/100 pcs.	Item No.
TPS 445 VA4301	445	1.05	15	72.000	6364 84 8
TPS 545 VA4301	545	0.8	15	85.000	6364 85 0
TPS 645 VA4301	645	0.61	15	99.000	6364 85 2

V2A Stainless steel, 1.4301

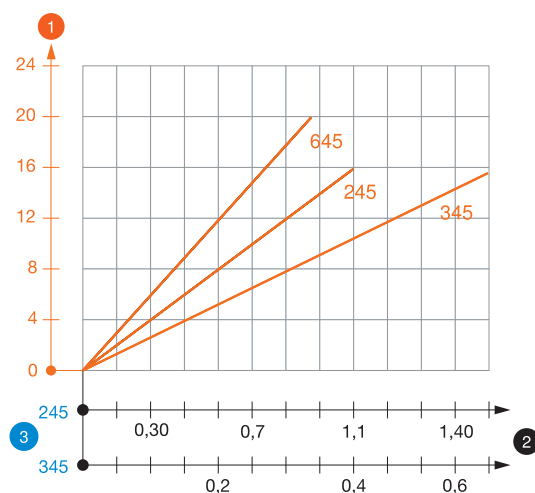
/pc.

TP support for fastening to horizontal concrete ceilings.

If the profile is fastened directly to the ceiling or the profile is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.

Important: only use brackets of length 345 mm or less.

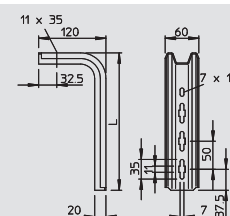
Load diagram, TP supports, type TPS

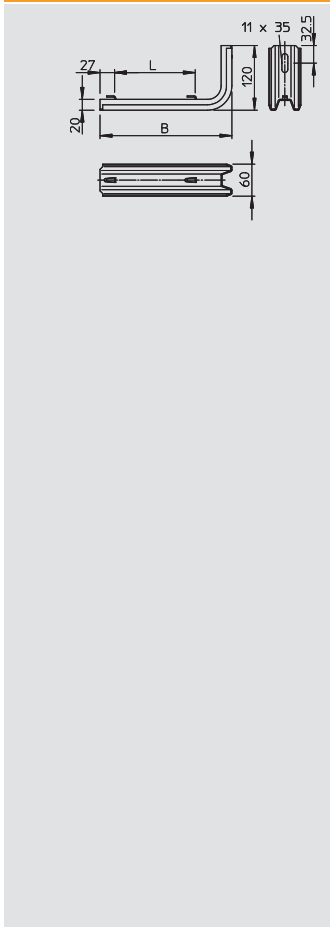


- 1 Bending of the end of the suspended support at approved bracket load
 - 2 Approved bracket load in kN without man load
 - 3 Bracket length in mm
- Load curves with support lengths in mm

Characteristic anchor load values for TP suspended support

Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing $a_i = 17$ cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).





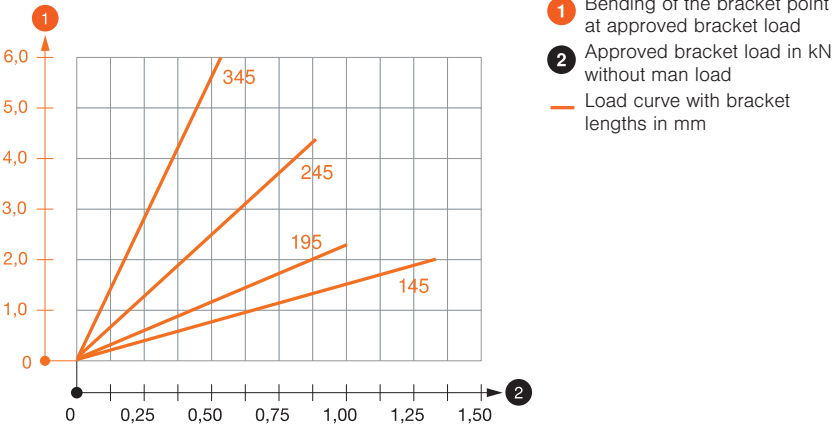
TP support / wall and support bracket

Type	Width mm	For width mm	F in kN kN	Pack.	Weight	Item No.
				pcs	kg/100 pcs.	
TPSAG 145 VA4301	145	100	1.5	50	32.000	6366 14 5
TPSAG 195 VA4301	195	150	1.0	20	40.000	6366 14 6
TPSAG 245 VA4301	245	200	0.9	20	47.000	6366 14 8
TPSAG 345 VA4301	345	300	0.55	20	61.000	6366 14 9

V2A Stainless steel, 1.4301 /pc.

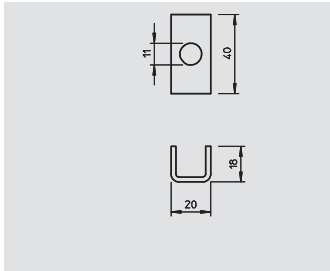
TP bracket with clamping lugs for screwless mesh cable tray fastening.
If the bracket is fastened directly to the wall or the profiles are screwed together, then, for reasons of stability, always use the spacer, type DS 4.

Load diagram, bracket TPSAG



Characteristic anchor load values for TP bracket

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 class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

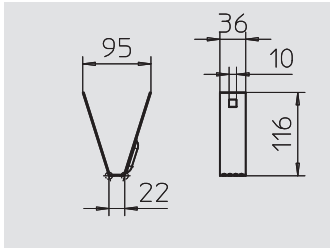


Spacer

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
DS 4 VA4301	20	3.700	6416 59 4

V2A Stainless steel, 1.4301 /pc.

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

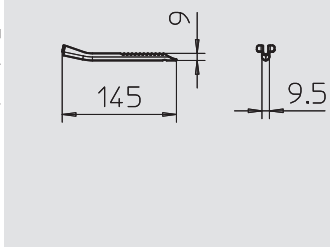


Trapezoidal fastening

Type	Material thickness mm	F in kN kN	Pack.	Weight	Item No.
			pcs	kg/100 pcs.	
TPB 100 VA4301	1.5	0.8	50	9.900	6357 51 6

V2A Stainless steel, 1.4301 Bright /pc.

Trapezoidal fastening for fastening to standard trapezoidal ceilings.
Important: Observe the statics of the trapezoidal metal ceiling.



Bolt for trapezoidal fastening

Type	Material thickness mm	Breaking load kN	Pack.	Weight	Item No.
			pcs	kg/100 pcs.	
TPB R VA4301	1.5	0.8	1	3.700	6357 53 8

V2A Stainless steel, 1.4301 Bright /pc.

Bolt for fastening and securing the trapezoidal suspension to trapezoidal ceilings.
Important: Observe the statics of the trapezoidal metal ceiling.



V2A components, material no. 1.4301



US 3 suspended support

Type	Length mm	Material thickness mm	Bracket length 200 kN	Bracket length 400 kN	Pack. pcs	Weight kg/100 pcs.	Item No.
US 3 K 20VA4301	200	2	2.7	1.5	1	44.000	6342 40 1
US 3 K 30VA4301	300	2	2.7	1.5	1	58.000	6342 40 3
US 3 K 40VA4301	400	2	2.7	1.5	4	71.000	6342 40 5
US 3 K 50VA4301	500	2	2.7	1.5	1	84.000	6342 40 7
US 3 K 60VA4301	600	2	2.1	1.1	1	97.000	6342 40 9
US 3 K 70VA4301	700	2	2.1	1.1	1	110.000	6342 41 1
US 3 K 80VA4301	800	2	2.1	1.1	1	123.000	6342 41 3
US 3 K 90VA4301	900	2	2.1	1.1	1	137.000	6342 41 5
US 3 K 100VA4301	1,000	2	2.1	1.1	1	150.000	6342 41 7

V2A Stainless steel, 1.4301

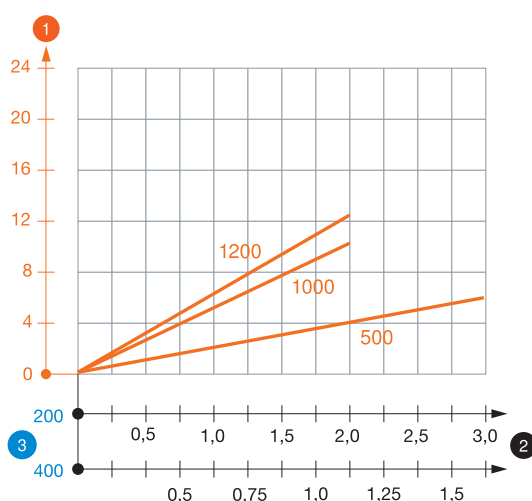
Stained

/pc.

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

For fastening to horizontal concrete ceilings and steel girders. In the case of bracket mounting on both sides, or when mounting the bracket at the end of the suspended support, use the spacer of type DSK 25.

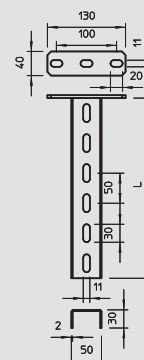
Load diagram, U support, type US 3 K



- 1 Bending of the end of the suspended support at approved bracket load
 - 2 Approved bracket load in kN without man load
 - 3 Bracket length in mm
- Load curves with support lengths in mm

Characteristic anchor load values for US 3 K suspended support

Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing $a_i = 10$ cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).



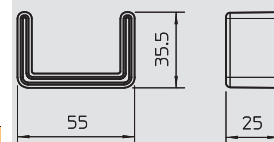
Protective cap

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
US 3 KS OR	Pastel orange	20	1.070	6338 45 8

PE Polyethylene

/pc.

Protective cap to cover the ends of US 3 supports.



US 3 support

Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 3 30 VA4301	300	2	1	39.500	6342 45 5
US 3 50 VA4301	500	2	1	65.800	6342 45 7
US 3 100 VA4301	1,000	2	1	131.700	6342 46 0
US 3 150 VA4301	1,500	2	1	197.500	6342 46 3
US 3 200 VA4301	2,000	2	1	263.300	6342 46 6
US 3 600 VA4301	6,000	2	1	789.900	6342 46 8

V2A Stainless steel, 1.4301

Stained

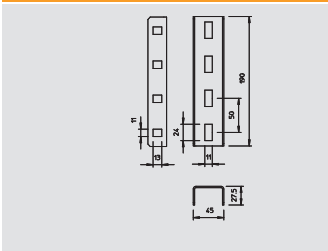
/pc.

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

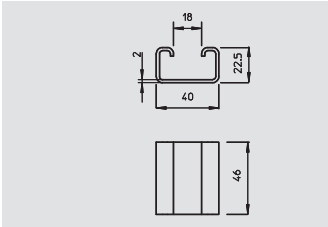
In the case of bracket mounting on both sides, or when mounting the bracket at the end of the suspended support, use the spacer of type DSK 25.



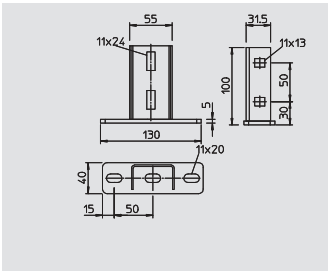
V2A components, material no. 1.4301



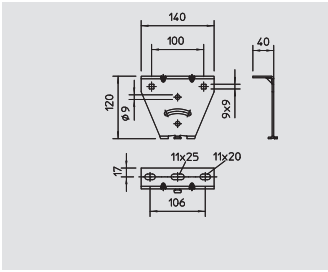
U support connector			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
VUS 3 VA4301	10	25.600	6018 51 7
V2A Stainless steel, 1.4301 Stained U support connector to connect US 3 supports. Including appropriate fastening material.			
			/pc.



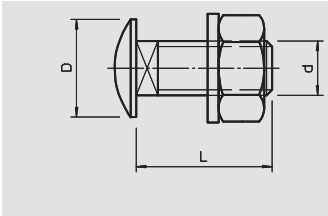
Spacer			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
DSK 25 VA4301	25	7.500	6416 44 8
V2A Stainless steel, 1.4301 Stained Spacer for use in U 3 supports.			
			/pc.



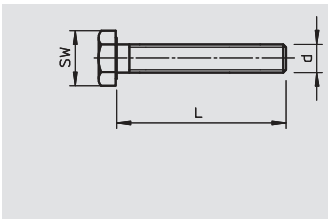
Head plate			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KU 3 VA4301	10	41.000	6348 87 6
V2A Stainless steel, 1.4301 Stained Head plate for mounting on US 3 supports. The head plate can be mounted to fixed lengths of the U support, type US 3. Including appropriate fastening material.			
			/pc.



Head plate, variable			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KU 3 V VA4301	20	26.700	6348 88 4
V2A Stainless steel, 1.4301 Stained Head plate for installation on US 3 supports and profile rails, type 2068. The variable head plate can be mounted to fixed lengths of the U support, type US 3, or profile rails, type 2068.			
			/pc.



Truss-head bolt							
Type	Dimension mm	Dimension L mm	Dimension d mm	Dimension D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRS 10X25 VA4301	M10 x 25	25	10	24	50	4.500	6406 71 8
V2A Stainless steel, 1.4301							/100 pc.
Truss-head bolt with square neck including washer and hexagonal nut.							



Hexagonal bolt							
Type	Dimension mm	Dimension L mm	Dimension d mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SKS 10X80 VA4401	M10 x 80	80	10	17	20	7.800	6418 24 8
V4A Stainless steel, 1.4401							/pc.
Hexagonal bolt for universal fastening of construction components.							



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V2A components, material no. 1.4301



US 5 suspended support

Type	Length mm	Material thickness mm	Bracket length 200 kN	Bracket length 400 kN	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 K 20 VA4301	200	2.5	5.75	3.1	1	82.000	6341 35 8
US 5 K 30 VA4301	300	2.5	5.75	3.1	2	106.000	6341 36 2
US 5 K 40 VA4301	400	2.5	5.75	3.1	1	131.000	6341 36 6
US 5 K 50 VA4301	500	2.5	5.75	3.1	1	155.000	6341 37 0
US 5 K 60 VA4301	600	2.5	5.75	3.1	1	180.000	6341 37 4
US 5 K 70 VA4301	700	2.5	5.75	3.1	1	205.000	6341 37 8
US 5 K 80 VA4301	800	2.5	5.75	3.1	1	230.000	6341 38 2
US 5 K 90 VA4301	900	2.5	5.75	3.1	1	255.000	6341 38 6
US 5 K 100 VA4301	1,000	2.5	5.75	3.1	1	279.000	6341 39 0
US 5 K 110 VA4301	1,100	2.5	4.0	2.2	1	302.000	6341 39 4
US 5 K 120 VA4301	1,200	2.5	4.0	2.2	1	328.000	6341 39 8

V2A Stainless steel, 1.4301 Stained

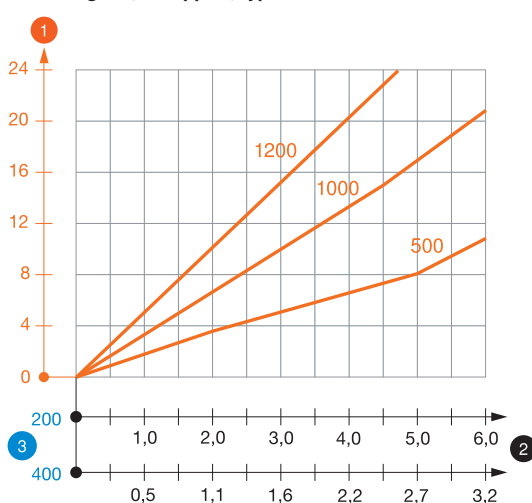
/pc.

U support with welded head plate.

For fastening to horizontal concrete ceilings and steel girders.

In the case of bracket installation on both sides, or when installing the bracket at the end of the support, use the spacer of type DSK 45.

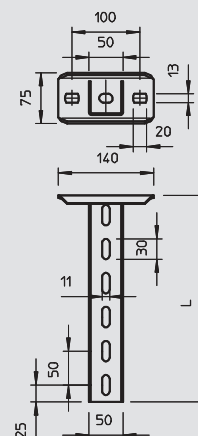
Load diagram, U support, type US 5 K VA



- 1 Bending of the end of the suspended support at approved bracket load
 - 2 Approved bracket load in kN without man load
 - 3 Bracket length in mm
- Load curves with support lengths in mm

Characteristic anchor load values for US 5 K support

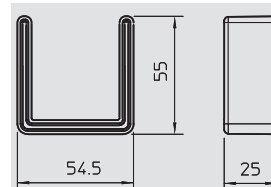
Max. total load F = cable weight + cable tray + bracket + support. The tabular values for double-sided loads take the available axis spacing $a_i = 10$ cm into account. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).



Protective cap

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 KS OR	Pastel orange	20	1.300	6338 46 2
PE	Polyethylene			/pc.

Protective cap for end covering of US 5 supports.



US 5 support

Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 20 VA4301	200	2.5	1	48.000	6341 10 1
US 5 30 VA4301	300	2.5	1	72.000	6341 10 5
US 5 40 VA4301	400	2.5	1	97.000	6341 10 9
US 5 50 VA4301	500	2.5	1	121.000	6341 11 3
US 5 70 VA4301	700	2.5	1	169.000	6341 12 1
US 5 80 VA4301	800	2.5	1	193.000	6341 12 5
US 5 90 VA4301	900	2.5	1	217.000	6341 12 9
US 5 100 VA4301	1,000	2.5	1	242.000	6341 13 3
US 5 110 VA4301	1,100	2.5	1	266.000	6341 13 7
US 5 120 VA4301	1,200	2.5	1	290.000	6341 14 1
US 5 300 VA4301	3,000	2.5	1	726.000	6341 15 2

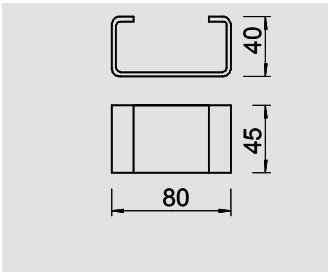
V2A Stainless steel, 1.4301

/pc.

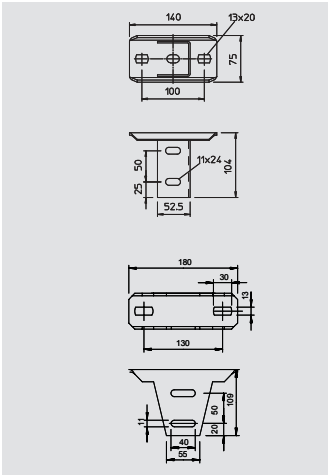
U support in fixed lengths. Dimensions 50 x 50 mm.

In the case of bracket installation on both sides, or when installing the bracket at the end of the support, use the spacer of type DSK 45.

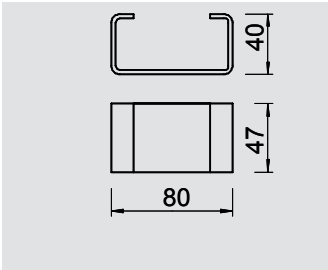




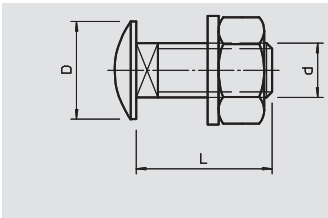
Spacer			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
DSK 45 VA4301	25	15.000	6416 48 9
V2A Stainless steel, 1.4301 /pc.			
Spacer for use in U 5 supports.			
For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the throughout hexagonal bolt.			



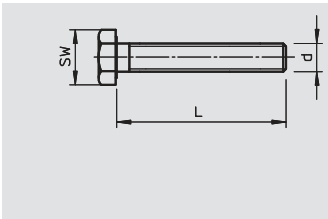
Head plate			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KUS 5 NOK VA4301	1	70.000	6348 94 7
V2A Stainless steel, 1.4301 Stained /pc.			
Head plate for installation in US 5 support.			
When installing the head plate, please use the spacer, type DSK 45.			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KU 5 V VA4301	1	81.000	6348 92 5
V2A Stainless steel, 1.4301 /pc.			
Variable head plate for installation on US 5 support.			
The spacer, type DSK 47, is used to install the head plate.			



Spacer			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
DSK 47 VA4301	25	16.000	6416 50 7
V2A Stainless steel, 1.4301 /pc.			
Spacer for use in head plate, type KU 5 V.			
For static reasons, the spacer is always used to increase stability to prevent the head plate from deforming when the bolts are tightened.			



Truss-head bolt						
Type	Dimen- sion mm	Dimen- sion L mm	Dimen- sion d mm	Dimen- sion D mm	Pack.	Weight kg/100 pcs.
					pcs	
FRS 10X25 VA4301	M10 x 25	25	10	24	50	4.500
V2A Stainless steel, 1.4301 /100 pc.						
Truss-head bolt with square neck including washer and hexagonal nut.						



Hexagonal bolt						
Type	Dimen- sion mm	Dimen- sion L mm	Dimen- sion d mm	SW mm	Pack.	Weight kg/100 pcs.
					pcs	
SKS 10X80 VA4401	M10 x 80	80	10	17	20	7.800
V4A Stainless steel, 1.4401 /pc.						
Hexagonal bolt for universal fastening of construction components.						





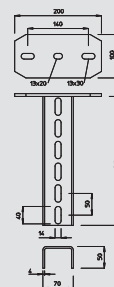
Type	Length	Material thickness	Bracket length 200	Bracket length 400	Bracket length 600	Pack.	Weight	Item No.
	mm	mm	kN	kN	kN	pcs	kg/100 pcs.	
US 7 K 20 VA4301	200	4	8.3	5.0	3.5	1	165.800	6338 60 7
US 7 K 30 VA4301	300	4	8.3	5.0	3.5	1	205.200	6338 61 5
US 7 K 40 VA4301	400	4	8.3	5.0	3.5	1	244.600	6338 62 3
US 7 K 50 VA4301	500	4	8.3	5.0	3.5	1	284.000	6338 63 1
US 7 K 60 VA4301	600	4	8.3	5.0	3.5	1	323.400	6338 65 8
US 7 K 70 VA4301	700	4	8.3	5.0	3.5	1	362.800	6338 66 6
US 7 K 80 VA4301	800	4	8.3	5.0	3.5	1	402.200	6338 67 4
US 7 K 90 VA4301	900	4	8.3	5.0	3.5	1	441.600	6338 68 2
US 7 K 100VA4301	1,000	4	8.3	5.0	3.5	1	481.000	6338 69 0
US 7 K 110VA4301	1,100	4	8.3	5.0	3.5	1	520.400	6338 70 4
US 7 K 120VA4301	1,200	4	8.3	5.0	3.5	1	559.800	6338 71 2
US 7 K 140VA4301	1,400	4	8.3	5.0	3.5	1	638.600	6338 73 9
US 7 K 150VA4301	1,500	4	8.3	5.0	3.5	1	678.000	6338 74 7
US 7 K 200VA4301	2,000	4	7.5	4.2	2.9	1	875.000	6338 80 1

/pc.

In the case of bracket installation on both sides, or when installing the bracket at the end of the support, use the spacer of type DSK 61.

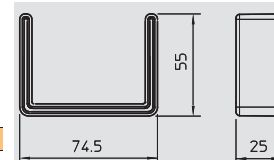
- 1 Bending of the end of the suspended support at approved bracket load
- 2 Approved bracket load in kN without man load
- 3 Bracket length in mm
- Load curves with support lengths in mm

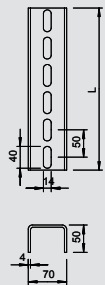
Max. total load F = cable weight + cable tray + bracket + support. The tabular values for double-sided loads take the available axis spacing $a_i = 14$ cm into account. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).



Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
US 7 KS OR	Pastel orange	20	1.800	6338 49 7
PE	Polvethvlene			/pc.

Protective cap to cover the ends of US 7 supports.





US 7 support

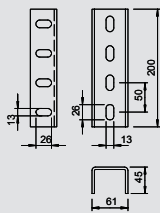
Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 7 50 VA4301	500	4	1	200.000	6341 76 4
US 7 100 VA4301	1,000	4	1	400.000	6341 81 0
US 7 150 VA4301	1,500	4	1	600.000	6341 86 1
US 7 200 VA4301	2,000	4	1	800.000	6341 95 0
US 7 300 VA4301	3,000	4	1	1,192.000	6341 96 9
US 7 600 VA4301	6,000	4	1	2,400.000	6341 99 3

V2A Stainless steel, 1.4301

/pc.

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

In the case of bracket installation on both sides, or when installing the bracket at the end of the support, use the spacer of type DSK 61.



U support connector

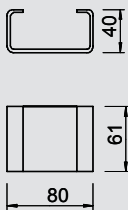
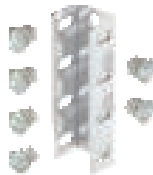
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VUS 7 VA4301	10	110.000	6018 40 8

V2A Stainless steel, 1.4301

/pc.

U support connector to connect US 7 supports.

Including appropriate fastening material.



Spacer

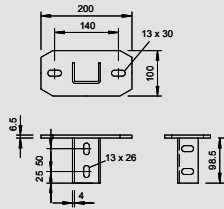
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DSK 61 VA4301	20	25.000	6416 52 7

V2A Stainless steel, 1.4301

/pc.

Spacer for use in U 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 throughout hexagonal bolts.



Head plate, heavy-duty

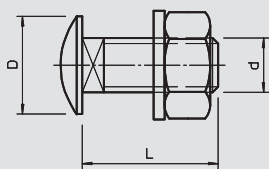
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KUS 7 VA4301	1	140.000	6349 27 7

V2A Stainless steel, 1.4301 Stained

/pc.

Heavy-duty head plate for installation in US 7 supports.

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



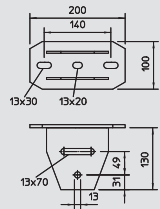
Truss-head bolt

Type	Dimen- sion mm	Dimen- sion L mm	Dimen- sion d mm	Dimen- sion D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRS 12X25 VA4301	M12 x 25	25	12	30	25	6.400	6406 75 0

V2A Stainless steel, 1.4301

/100 pc.

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



Head plate, variable

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KU 7 VQP VA4301	1	157.000	6349 19 6

V2A Stainless steel, 1.4301 Stained

/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.





V2A components, material no. 1.4301



Spacer

Type

Pack. Weight Item No.

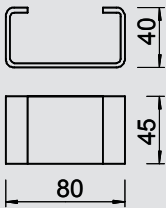
pcs kg/100 pcs.

DSK 45 VA4301 25 15.000 **6416 48 9**

V2A Stainless steel, 1.4301 /pc.

Spacer for use in U 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 throughout hexagonal bolt.



Hexagonal bolt

Type

Dimension mm Dimension L mm Dimension I mm Dimension d mm SW mm

Pack. Weight Item No.

pcs kg/100 pcs.

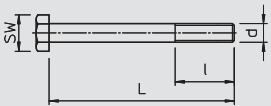
SKS 12X80 VA4401 M12 x 80 80 30 12 19 20 11.800 **6418 27 9**

SKS 12X100VA4401 M12 x 100 100 30 12 19 20 12.600 **6418 36 8**

SKS 12X110VA4401 M12 x 110 110 30 12 19 20 14.500 **6418 37 6**

V4A Stainless steel, 1.4401 /pc.

Hexagonal bolts for universal fixing of structure components.



Wall and support bracket AW 15

Type

Width mm Dimension H mm Dimension A mm Hole Ø mm F in kN

Pack. Weight Item No.

pcs kg/100 pcs.

AW 15 11 VA4301 110 50 40 11 1.5 30 14.100 **6421 00 8**

AW 15 21 VA4301 210 60 40 11 1.5 30 25.600 **6421 02 4**

AW 15 31 VA4301 310 65 40 11 1.5 30 32.500 **6421 03 2**

AW 15 41 VA4301 410 70 40 11 1.5 30 55.000 **6421 03 6**

AW 15 51 VA4301 510 75 40 11 1.5 20 68.000 **6421 04 0**

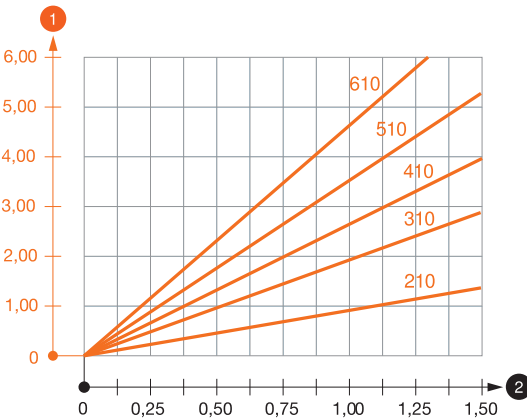
AW 15 61 VA4301 610 80 40 11 1.5 20 85.000 **6421 04 4**

V2A Stainless steel, 1.4301 Stained /pc.

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

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

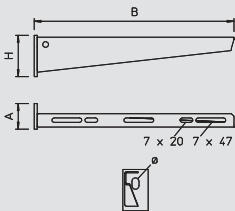
Load diagram, bracket AW 15 VA

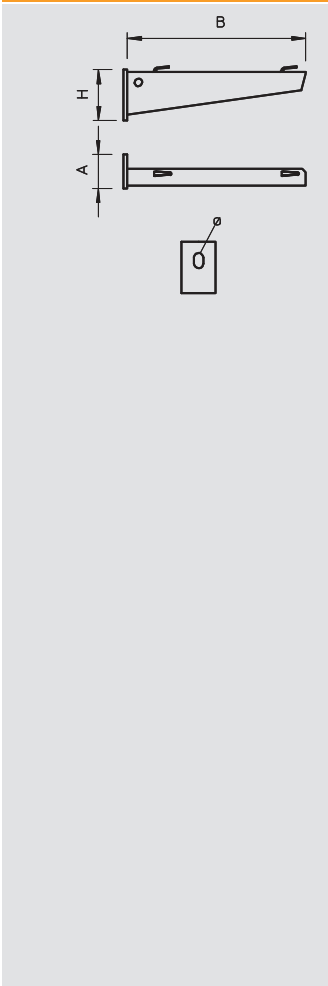


- 1 Bending of the bracket point at approved bracket load
 - 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm

Characteristic anchor load values for wall and support bracket AW 15

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





Wall and support bracket AWG 15

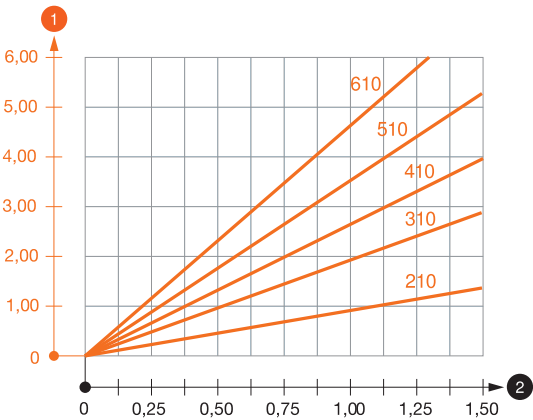
Type	Width mm	Dimen- sion H mm	Dimen- sion A mm	Hole Ø mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AWG 15 11VA4301	110	50	40	11	1.5	30	13.000	6420 62 5
AWG 15 21VA4301	210	60	40	11	1.5	30	25.000	6420 62 8
AWG 15 31VA4301	310	65	40	11	1.5	30	33.000	6420 63 1
AWG 15 41VA4301	410	70	40	11	1.5	30	53.000	6420 63 4
AWG 15 51VA4301	510	75	40	11	1.5	20	65.000	6420 63 7
AWG 15 61VA4301	610	80	40	11	1.5	20	80.000	6420 64 0

V2A Stainless steel, 1.4301 Stained /pc.

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

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

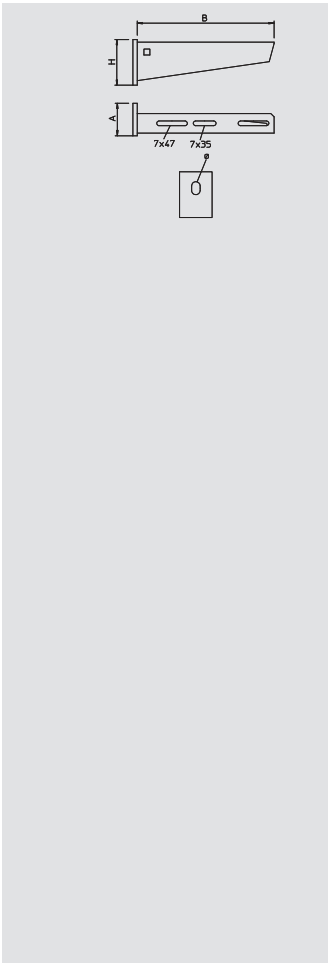
Load diagram, bracket type AW G 15



- 1 Bending of the bracket point at approved bracket load
- 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm

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

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



Wall and support bracket AW 30

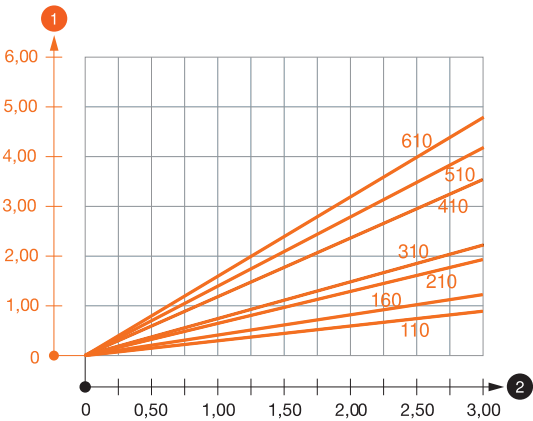
Type	Width mm	Dimen- sion H mm	Dimen- sion A mm	Hole Ø mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AW 30 11 VA4301	110	60	50	11	3.0	30	21.200	6442 80 3
AW 30 21 VA4301	210	70	50	13	3.0	25	38.200	6442 83 8
AW 30 31 VA4301	310	80	50	13	3.0	25	61.000	6442 85 4
AW 30 41 VA4301	410	80	50	13	3.0	20	86.200	6442 87 0
AW 30 51 VA4301	510	90	50	13	3.0	10	126.000	6442 89 7
AW 30 61 VA4301	610	100	50	13	3.0	10	154.000	6442 91 9

V2A Stainless steel, 1.4301 Stained /pc.

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

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

Load diagram, bracket AW 30 VA



- 1 Bending of the bracket point at approved bracket load
- 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm

Characteristic anchor load values for wall and support bracket AW 30

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



V2A components, material no. 1.4301



Wall and support bracket AW 55

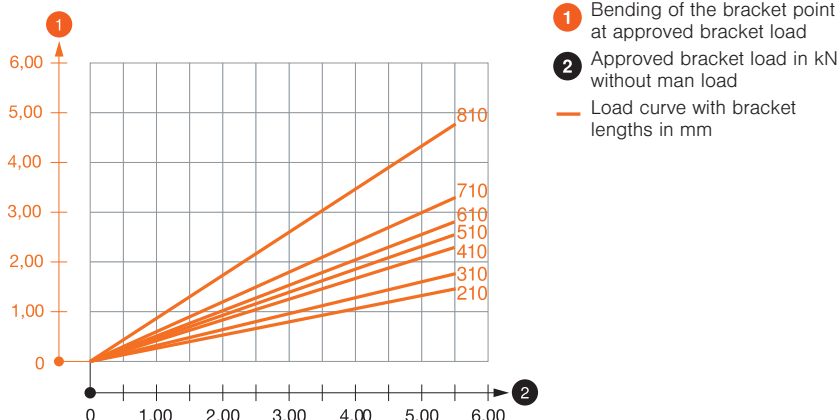
Type	Width mm	Dimension H mm	Dimension A mm	Hole Ø mm	F in kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AW 55 21 VA4301	210	90	50	13.5	5.5	1	77.000	6443 06 3
AW 55 31 VA4301	310	110	50	13.5	5.5	1	123.000	6443 06 7
AW 55 41 VA4301	410	130	50	13.5	5.5	1	167.000	6443 07 1
AW 55 51 VA4301	510	145	60	13.5	5.5	1	249.000	6443 07 5
AW 55 61 VA4301	610	165	60	13.5	5.5	1	305.000	6443 07 9
AW 55 71 VA4301	710	195	60	13.5	5.5	1	445.000	6443 08 3

V2A Stainless steel, 1.4301 Stained /pc.

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

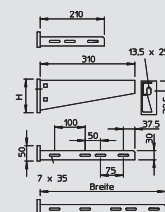
Fastening of the bracket to the U support of width 400 mm or greater using hexagonal bolt through both sides of the support. Please insert suitable spacers.

Load diagram, bracket, type AW 55



Characteristic anchor load values for wall and support bracket AW 55

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

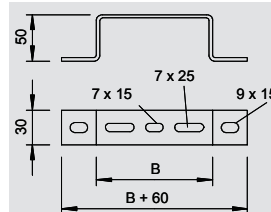


Stand-off bracket

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBL 50 100VA4401	100	20	15.800	6015 63 0
DBL 50 200VA4401	200	20	22.800	6015 63 2
DBL 50 300VA4401	300	20	38.000	6015 63 3
DBL 50 400VA4401	400	20	47.400	6015 63 4

V4A Stainless steel, 1.4401 /pc.

Stand-off bracket for cable trays and mesh cable trays.



Clamping angle

Type	Height mm	F in kN	Bolt	Pack. pair	Weight kg/100 pairs	Item No.
KWH 5 VA4301	5	5.7	M12 x 40	10	65.000	6355 30 7
KWH 10 VA4301	10	5.7	M12 x 50	10	69.000	6355 31 5
KWH 15 VA4301	15	5.7	M12 x 50	10	73.000	6355 32 3
KWH 20 VA4301	20	5.7	M12 x 60	10	79.000	6355 33 1
KWH 25 VA4301	25	5.7	M12 x 60	10	83.000	6355 35 8

V2A Stainless steel, 1.4301 /pair

Clamping angle, with hammer-head bolt, type KWH, for fixing in the profile rail, type CPS 5.

Choose the clamping angle according to the thickness of the flange.

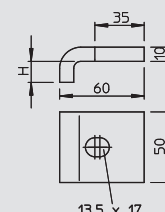
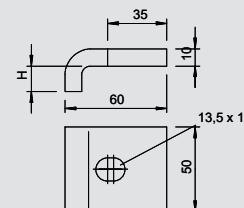
The clamping angle is used in conjunction with profile rails of slot width 22 mm (e.g. type CPS 5).

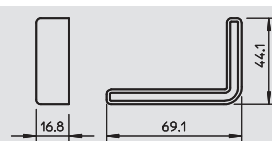
Type	Height mm	F in kN	Bolt	Pack. pair	Weight kg/100 pairs	Item No.
KWS 5 VA4301	5	5.7	M12 x 40	10	69.000	6355 40 4
KWS 10 VA4301	10	5.7	M12 x 50	10	69.000	6355 41 2
KWS 15 VA4301	15	5.7	M12 x 50	10	73.000	6355 42 0
KWS 20 VA4301	20	5.7	M12 x 60	10	79.000	6355 43 9
KWS 25 VA4301	25	5.7	M12 x 60	10	83.000	6355 44 7

V2A Stainless steel, 1.4301 /pair

Clamping angle, with hexagonal bolt, type KWS, for direct fixing of constructions to steel girder flanges.

Choose the clamping angle according to the thickness of the flange.





Profile rail

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
2068 L 2M VA	Perforated	35 x 18	1.5	2,000	20	80.000	1119 70 2
2068 L 6M VA	Perforated	35 x 18	1.5	6,000	6	80.000	1119 72 9

V2A Stainless steel, 1.4301

/100 m

Profile rail, perforated, slot width 16.5 mm.

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
CPS 4L 2M VA	Perforated	40 x 22,5	2	2,000	10	152.500	1121 96 0
CPS 4L 6M VA	Perforated	40 x 22,5	2	6,000	1	152.500	1121 90 1

V2A Stainless steel, 1.4301

/100 m

Heavy-weight profile rail, perforated, slot width 18 mm.

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
CPS 5 G 260 VA	Perforated	50 x 30	3	260	10	78.000	6349 81 1
CPS 5 G 340 VA	Perforated	50 x 30	3	340	8	102.000	6349 84 6
CPS 5 G 380 VA	Perforated	50 x 30	3	380	15	114.000	6349 85 4

V2A Stainless steel, 1.4301

/pcc.

Heavy-weight profile rail. In fixed lengths, with rectangular perforation and a slot width of 22 mm.

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
CPS 5 L 2M VA	Perforated	50 x 30	3	2,000	2	282.500	1121 48 0
CPS 5 L 6M VA	Perforated	50 x 30	3	6,000	6	282.500	1121 49 9

V2A Stainless steel, 1.4301

/100 m

Heavy-weight profile rail with continuous perforation, slot width 22 mm.

Slide nut

Type	Dimension D	Recommended load capacity	Pack.	Weight	Item No.
	mm	kN	pcs	kg/100 pcs.	
GMH18 M6 VA	6	1.94	50	2.400	1146 55 6
GMH18 M8 VA	8	3.57	50	2.300	1146 55 8
GMH18 M10 VA	10	5.7	50	2.000	1146 56 0
GMH18 M12 VA	12	8.32	50	2.000	1146 56 2

V4A Stainless steel, 1.4401

/100 pc.

Slide nut for profile rails with a slot width of 18 mm.

Type	Dimension D mm	Recommended load capacity kN	Pack. pcs	Weight kg/100 pcs.	Item No.
GMH22 M6 VA	6	1.94	50	4.500	1146 64 6
GMH22 M8 VA	8	3.57	50	4.300	1146 64 8
GMH22 M10 VA	10	5.7	50	4.300	1146 65 0
GMH22 M12 VA	12	8.32	50	4.200	1146 65 2

V4A Stainless steel, 1.4401

/100 pc.

Slide nut for profile rails with a slot width of 22 mm.

Angle profile

Type	Length	Pack.	Weight	Item No.
	mm	m	kg/100 m	
WP 40 65 VA4301	5.000	1	240.000	6373 06 2

V2A Stainless steel, 1.4301

/m

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

Protective cap

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
WPK SR OR	Pastel orange	20	0.600	6372 88 1
WPK SL OR	Pastel orange	20	0.600	6372 89 8

PE Polyethylene

/pc.

Protective cap to cover the ends of angle profile, type WE 40/65.

V2A components, material no. 1.4301



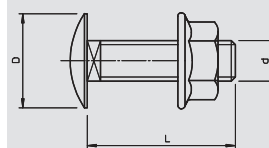
Truss-head bolt with V2A combination nut

Type	Grade	Dimension mm	Dimension L mm	Dimension d mm	Dimension D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRSB 6X12 VA4301	1.4301	M6 x 12	12	6	16	100	0.830	6406 13 8
FRSB 6X16 VA4301	1.4301	M6 x 16	16	6	16	100	0.800	6406 18 9

V2A Stainless steel, 1.4301

/100 pc.

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



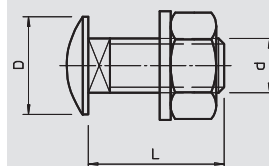
Truss-head bolt with nut and washer

Type	Dimension mm	Dimension L mm	Dimension d mm	Dimension D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRSB 6X12 VA4301	M6 x 12	12	6	13.5	100	0.760	6406 52 1
FRSB 6X16 VA4301	M6 x 16	15	6	13.5	100	0.900	6406 55 6
FRSB 6X20 VA4301	M6 x 20	20	6	13.5	100	1.000	6406 60 2
FRS 8X16 VA4301	M8 x 16	16	8	20	50	2.200	6406 69 6
FRS 8X20 VA4301	M8 x 20	20	8	20	50	2.100	6406 80 7
FRS 8X25 VA4301	M8 x 25	25	8	20	50	2.300	6406 81 5
FRS 8X35 VA4301	M8 x 35	35	8	20	50	2.700	6406 82 3
FRS 10X20 VA4301	M10 x 20	20	10	24	50	3.900	6406 86 6
FRS 10X25 VA4301	M10 x 25	25	10	24	50	4.500	6406 71 8
FRS 10X30 VA4301	M10 x 30	30	10	24	50	4.500	6406 72 6
FRS 12X25 VA4301	M12 x 25	25	12	30	25	6.400	6406 75 0
FRS 12X30 VA4301	M12 x 30	30	12	30	25	6.800	6406 76 9

V2A Stainless steel, 1.4301

/100 pc.

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



Threaded rod

Type	Thread	Dimension d mm	Dimension L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2078 M8 VA	M8	8	1,000	50	30.000	3141 31 0
2078 M10 VA	M10	10	1,000	25	49.000	3141 31 2
2078 M12 VA	M12	12	1,000	20	70.000	3141 31 4

V2A Stainless steel, 1.4301

/100 pc.

Threaded rod to DIN 976.



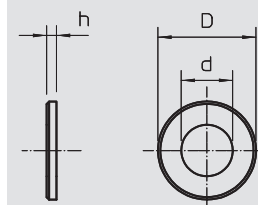
Washer

Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Box quantity pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
966 M6 VA	M6	6.4	12	1.6	10,000	100	0.114	3402 30 4
966 M8 VA	M8	8.4	16	1.6	5,000	100	0.214	3402 31 2
966 M10 VA	M10	10.5	20	2	3,000	100	0.408	3402 32 0
966 M12 VA	M12	13	24	2.5	2,400	100	0.627	3402 33 9

V2A Stainless steel, 1.4301

/100 pc.

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



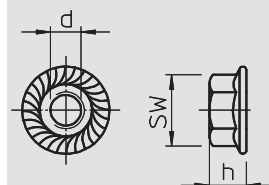
Combination nut

Type	Dimension d mm	Dimension h mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KM M6 VA4301	6	6	10	100	0.315	6408 96 6

V2A Stainless steel, 1.4301

/100 pc.

Nut with pressed washer.



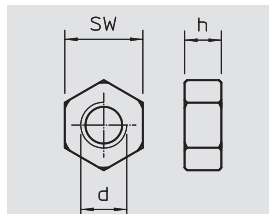
Hexagonal nut

Type	Dimension d mm	Dimension h mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 934 M6 VA	6	5.2	10	100	0.250	3397 06 8
DIN 934 M8 VA	8	6.8	13	100	0.520	3397 08 4
DIN 934 M10 VA	10	8.4	17	100	1.160	3397 10 6
DIN 934 M12 VA	12	10.8	19	100	1.730	3397 11 4

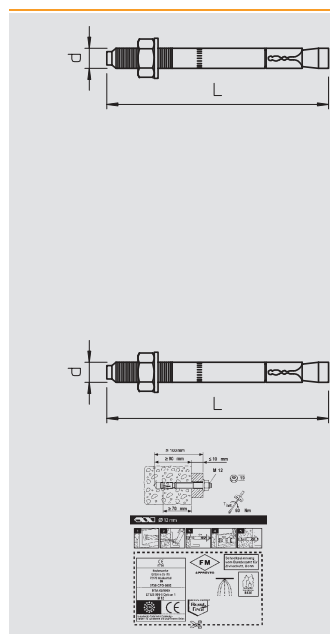
V2A Stainless steel, 1.4301

/100 pc.

Hexagonal nut to DIN 934 with metric thread.



V2A components, material no. 1.4301



Anchor bolt

Type	Thread	Dimension L mm	Dimension d mm	Clamping range mm	Perm. load range, tension zone kN	Pack. pcs	Weight kg/100 pcs.	Item No.
FAZ II 10/10GS V	M 10	90	10	10	3.57	50	7.680	3498 82 4
FAZ II 12/10 VA	M12	103	12	10	4.76	20	10.400	3498 85 9

V4A Stainless steel, 1.4401

/100 pc.

Anchor bolt for fastening high loads. Matches OBO mounting systems and wall support brackets and supports.

With European technical approval no.: ETA-01/0015

GS = with large washer, external diameter approx. 2.5 x drill diameter.

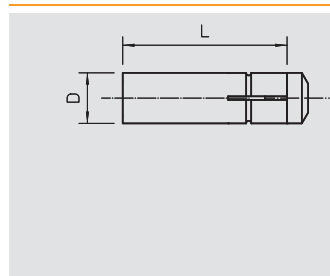
Type	Thread	Dimension L mm	Dimension d mm	Clamping range mm	Perm. load range, tension zone kN	Pack. pcs	Weight kg/100 pcs.	Item No.
FAZ II 810VA4401	M8	77	8	10	2.4	50	0.000	3498 50 9
FAZ II 830VA4401	M8	97	8	30	2.4	50	0.000	3498 48 7
FAZ II 10/50 V4A	M10	115	10	50	4.3	20	8.280	3498 83 5

V4A Stainless steel, 1.4401

Stained

/100 pc.

* GS= Large washer



Impact tie

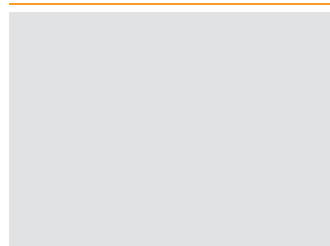
Type	Thread	Dimension D mm	Dimension L mm	Screw-in depth min.-max. mm	Perm. load range, tension zone kN	Pack. pcs	Weight kg/100 pcs.	Item No.
FZEA II 10X40 VA	M8	10	40	11-17	1.5	100	1.550	3492 14 5
FZEA II 12X40 VA	M10	12	40	13-19	1.5	100	2.075	3492 15 0

V4A Stainless steel, 1.4401

/100 pc.

Impact tie with internal thread

Approval no.: Z-21.1-958



Impact mandrel

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
FZED 10X40 G	5	10.500	3492 62 1
FZED 12X40 G	5	17.800	3492 66 4

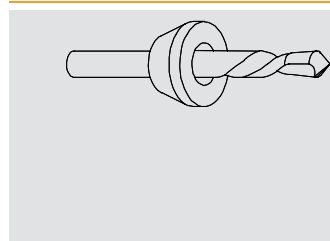
ST Steel

G

Electrogalvanised

/pc.

The impact mandrel guarantees correct, approved mounting of the FZEA tie.



Universal drill

Type	Bore hole Ø mm	Box quantity pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
FZUB 10X40	10	10	1	11.800	3492 33 8
FZUB 12X40	12	10	1	12.200	3492 36 2

ST Steel

Bright

/pc.

The universal drill for SDS seats guarantees correct, approved mounting of the FZEA tie.



V2A components, material no. 1.4301



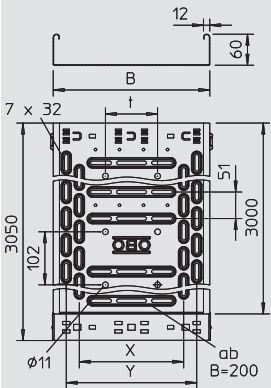
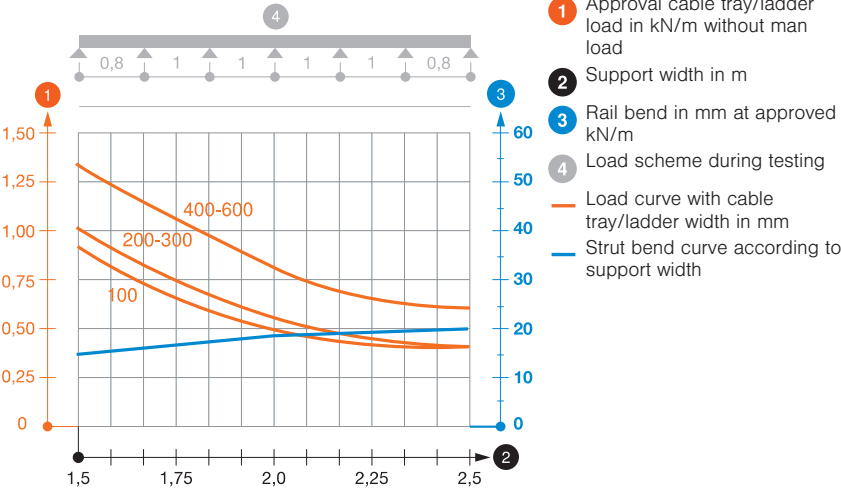
RKSM cable tray

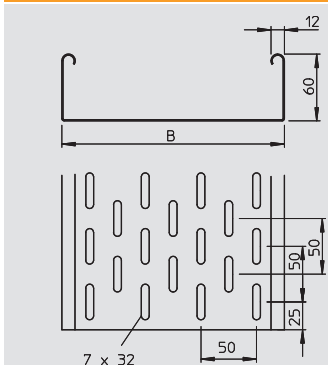
Type	Width	Plate thickness	Length	Useful cross-section	Dimension x	Dimension y	Dimension t	Appr. load:		Weight	Item No.
	mm	mm	mm	cm²	mm	mm	mm	1.5 m kN/m	2.0 m kN/m	kg/100 m	
RKSM 610 VA4301	100	0.75	3,050	58	—	50	—	0.9	0.5	134.300	6047 61 3
RKSM 615 VA4301	150	0.75	3,050	88	50	100	—	1.0	0.55	157.700	6047 63 2
RKSM 620 VA4301	200	0.75	3,050	118	100	150	—	1.0	0.55	183.000	6047 64 0
RKSM 630 VA4301	300	0.75	3,050	178	200	250	100	1.0	0.55	239.000	6047 65 6
RKSM 640 VA4301	400	0.9	3,050	238	300	350	200	1.35	0.8	331.300	6047 69 1
RKSM 650 VA4301	500	0.9	3,050	298	400	450	300	1.35	0.8	392.300	6047 72 1
RKSM 660 VA4301	600	0.9	3,050	358	450	550	400	1.35	0.8	453.330	6047 73 7

V2A Stainless steel, 1.4301 Stained /m

RKSM 60 = efficient magic cable tray system with 60 mm side height.
Magnetic shield insulation without cover 20 dB, with cover 50 dB.
Cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation, with beaded straight base perforation, 7 x 20 mm, for bracket mounting and, from the width 200 mm, with 7 x 32 mm transverse beading for cable ventilation and simplified mounting. With 11 mm perforation for direct threaded rod suspension.
Continuous side perforation, 7 x 20 mm, as connector perforation.
The stock length is 60 mm, the usable length when combined is 60 mm.
The spring element FED 60 can be ordered separately as a accessory part (spare) for the cable tray RKS-Magic with a side height of 60 mm under the article number 6068859.
The continuous equipotential bonding is guaranteed without additional components.

Load diagram, cable tray, type RKSM 60





Cable tray MKS



Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm ²	Appr. load:				Weight kg/100 m	Item No.
					1.5 m kN/m	1.75 m kN/m	2.0 m kN/m	2.5 m kN/m		
MKS 610 VA4301	100	1	3,000	58	1.5	1.25	1.0	0.5	173.700	6056 01 6
MKS 620 VA4301	200	1	3,000	118	1.5	1.25	1.0	0.5	239.000	6056 02 4
MKS 630 VA4301	300	1	3,000	178	1.5	1.25	1.0	0.5	305.000	6056 04 0
MKS 640 VA4301	400	1	3,000	238	1.5	1.25	1.0	0.5	402.000	6056 05 9
MKS 650 VA4301	500	1	3,000	298	1.5	1.25	1.0	0.5	450.000	6056 07 5
MKS 660 VA4301	600	1	3,000	358	1.5	1.25	1.0	0.5	528.000	6056 08 3

V2A Stainless steel, 1.4301

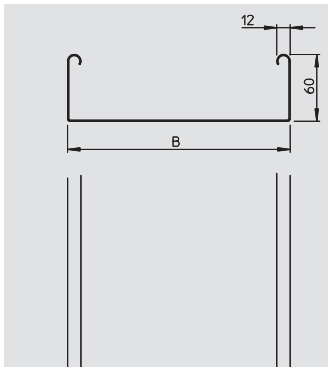
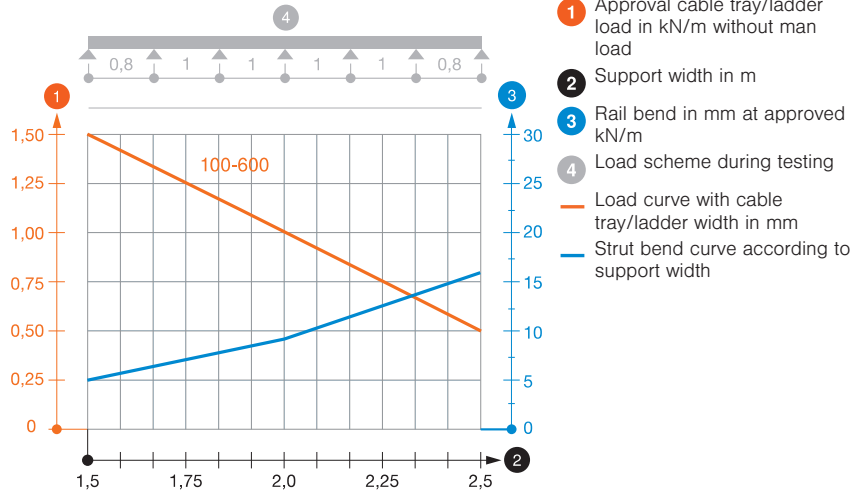
/m

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

Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Connecting parts should be ordered in the appropriate quantity.

Load diagram, cable tray MKS 60 VA



Cable tray MKSU



Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm ²	Appr. load:				Weight kg/100 m	Item No.
					1.5 m kN/m	1.75 m kN/m	2.0 m kN/m	2.5 m kN/m		
MKSU 610 VA4301	100	0.8	3,000	58	1.5	1.25	1.0	0.5	154.000	6063 77 2
MKSU 620 VA4301	200	0.8	3,000	118	1.5	1.25	1.0	0.5	217.000	6063 78 0
MKSU 630 VA4301	300	0.8	3,000	178	1.5	1.25	1.0	0.5	280.000	6063 79 9
MKSU 640 VA4301	400	1	3,000	238	1.5	1.25	1.0	0.5	426.000	6063 84 5
MKSU 650 VA4301	500	1	3,000	298	1.5	1.25	1.0	0.5	520.000	6063 86 1
MKSU 660 VA4301	600	1	3,000	358	1.5	1.25	1.0	0.5	601.000	6063 88 8

V2A Stainless steel, 1.4301

/m

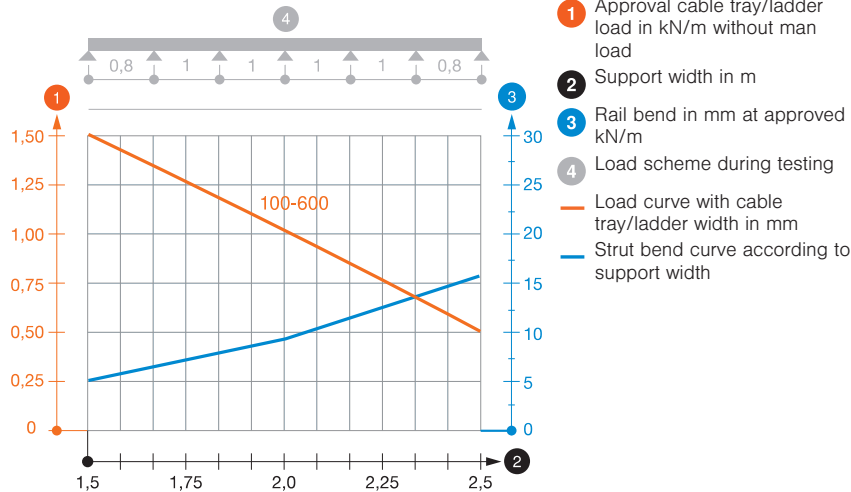
MKSU 60 = Medium-duty cable tray system, unperforated, with a side height of 60 mm.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.

The cable tray has connector perforations on both sides.

Connecting parts should be ordered separately and in the appropriate quantity.

Load diagram, cable tray MKSU 60 VA



V2A components, material no. 1.4301



Cable tray SKS

Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm ²	Appr. load:				Weight kg/100 m	Item No.
					1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m		
SKS 610 VA4301	100	1.5	3,000	58	2.65	1.8	1.15	0.5	263.300	6056 73 5
SKS 620 VA4301	200	1.5	3,000	118	2.65	1.8	1.15	0.5	356.700	6056 73 7
SKS 630 VA4301	300	1.5	3,000	178	2.65	1.8	1.15	0.5	466.700	6056 73 9
SKS 640 VA4301	400	1.5	3,000	238	2.65	1.8	1.15	0.5	566.700	6056 74 2
SKS 650 VA4301	500	1.5	3,000	298	2.65	1.8	1.15	0.5	666.700	6056 74 4
SKS 660 VA4301	600	1.5	3,000	358	2.65	1.8	1.15	0.5	766.700	6056 74 6

V2A Stainless steel, 1.4301

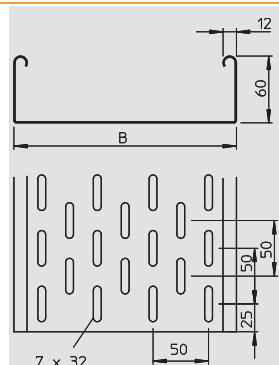
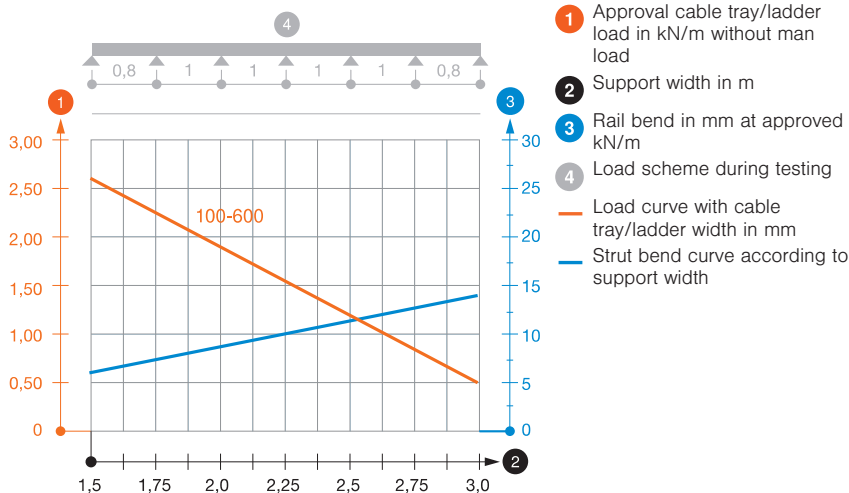
/m

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

Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Connecting parts should be ordered in the appropriate quantity.

Load diagram, cable tray, type SKS 60



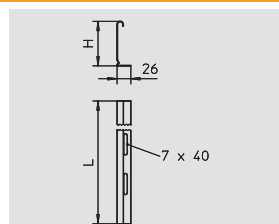
Barrier strip

Type	Dimen- sion H mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
TSG 60 VA4301	60	3,000	45	0.000	6062 08 4

V2A Stainless steel, 1.4301

/m

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



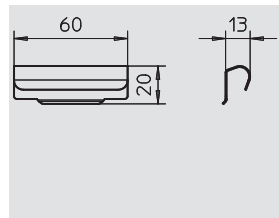
Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1.000	6067 97 0

V2A Stainless steel, 1.4310

/pc.

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



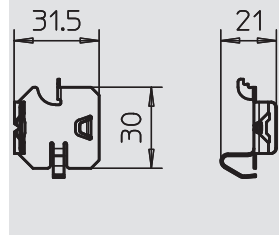
Clamping piece for barrier strip fastening

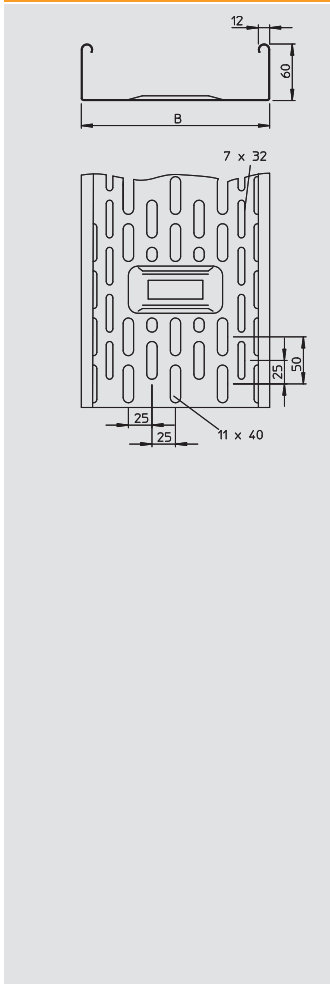
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KR VA4310	30	0.580	6062 28 0

V2A Stainless steel, 1.4310

/100 pc.

Clamping piece for screwless fastening of barrier strips in the cable tray types RKSM, MKS and SKS.





Cable tray DKS

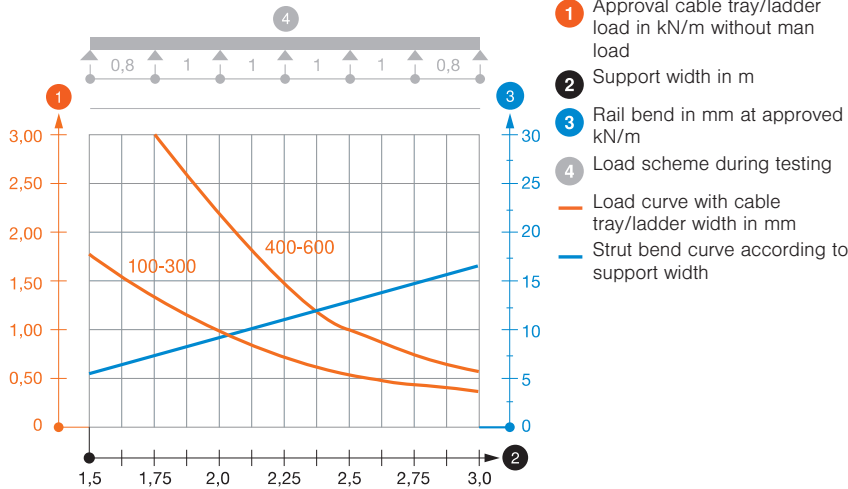


Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm²	Appr. load:				Weight kg/100 m	Item No.
					1.5 m kN/m	1.75 m kN/m	2.0 m kN/m	2.5 m kN/m		
DKS 610 VA4301	100	0.8	3,000	58	1.0	0.8	0.5	0.35	157.000	6085 60 1
DKS 620 VA4301	200	0.8	3,000	118	1.0	0.8	0.5	0.35	213.000	6085 62 8
DKS 630 VA4301	300	0.8	3,000	178	1.0	0.8	0.5	0.35	214.000	6085 63 6
DKS 640 VA4301	400	1	3,000	238	1.1	0.9	0.75	0.45	294.000	6085 64 4
DKS 650 VA4301	500	1	3,000	298	1.1	0.9	0.75	0.45	350.000	6085 65 2
DKS 660 VA4301	600	1	3,000	358	1.1	0.9	0.75	0.45	437.000	6085 66 0

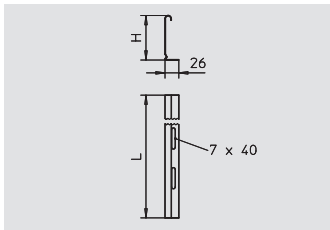
V2A Stainless steel, 1.4301 /m

DKS 60 = perforated cable tray system with 60 mm side height.
Magnetic shield insulation without cover 20 dB, with cover 50 dB.
Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.
Bottom penetration from width 200 mm.
Connecting parts should be ordered in the appropriate quantity.

Load diagram, cable tray DKS 60 VA



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

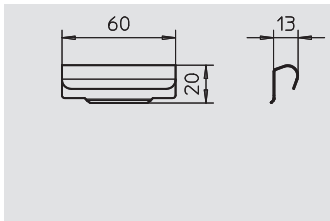


Barrier strip

Type	Dimen- sion H mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
TSG 45 VA4301	45	3,000	45	0.000	6062 02 5

V2A Stainless steel, 1.4301 /m

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

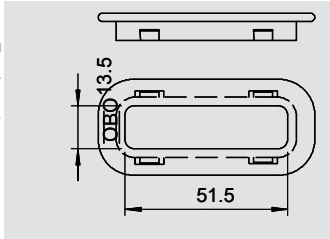


Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1.000	6067 97 0

V2A Stainless steel, 1.4310 /pc.

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



Cable protection ring

Type	Colour	For perforation mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KSR-910 PE	Light grey	20 x 58	25	0.450	6066 71 2

PE Polyethylene /pc.

Cable protection ring for bottom penetrations in cable trays of type DKS, IKS and for side penetrations in AZ channels and luminaire support trays.



V2A components, material no. 1.4301



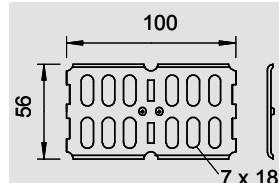
Straight connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RLVK 60 VA4301	60	10	8.800	6067 65 4

V2A Stainless steel, 1.4301

Straight connector for connections of cable trays, fittings and barrier strips with a side height of 60 mm.

Including appropriate fastening material.



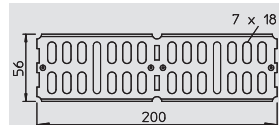
Straight and angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWVL 60 VA4301	60	10	17.500	6067 66 2

V2A Stainless steel, 1.4301

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

Including appropriate fastening material.



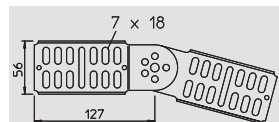
Articulated connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGV 60 VA4301	60	10	24.000	7082 25 8

V2A Stainless steel, 1.4301

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

Including appropriate fastening material.



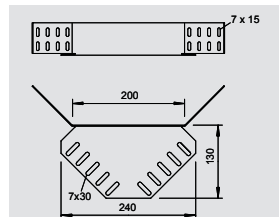
Corner connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
REV 60 VA4301	60	5	33.400	6068 02 2

V2A Stainless steel, 1.4301

Corner connector for cable trays with side height 60 mm.

Fastening materials should be ordered separately.



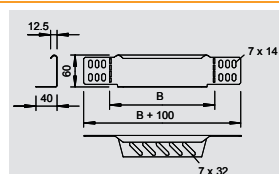
Reducer bracket and end closure

Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWEB 610 VA4301	60	100	1	9.000	7109 81 4
RWEB 620 VA4301	60	200	1	18.000	7109 83 0
RWEB 630 VA4301	60	300	1	26.000	7109 85 7
RWEB 640 VA4301	60	400	1	34.000	7109 87 3
RWEB 650 VA4301	60	500	1	42.000	7109 90 3
RWEB 660 VA4301	60	600	1	49.000	7109 93 8

V2A Stainless steel, 1.4301

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

Including appropriate fastening material.



45° bend

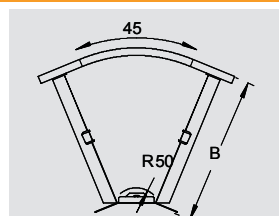
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RB45 610 VA4301	100	1	45.000	7133 10 7
RB45 620 VA4301	200	1	70.000	7133 12 0
RB45 630 VA4301	300	1	100.000	7133 14 2

V2A Stainless steel, 1.4301

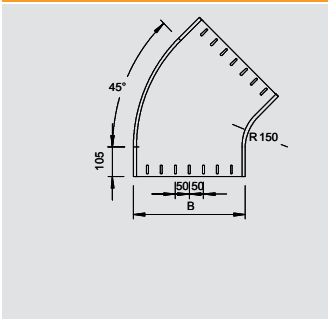
45° bend, horizontal, for all cable tray types of 60 mm side height.

The fitting is shipped in an unmounted state. The WKV 60 angle connector is designed for 90° bends and can be adjusted to 45° on site.

Including appropriate fastening material.

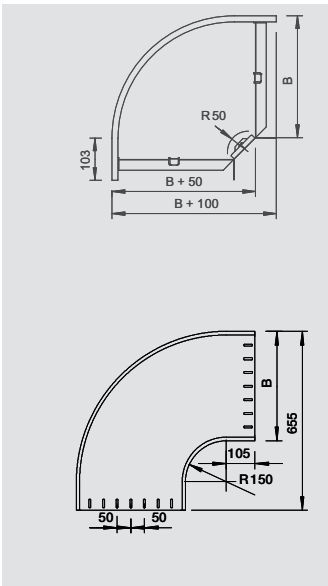


V2A components, material no. 1.4301



Type	Width mm	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
RBU 45 640VA4301	400	1	250.000	7133 23 5
RBU 45 650VA4301	500	1	320.000	7133 24 3
RBU 45 660VA4301	600	1	410.000	7133 25 1

V2A Stainless steel, 1.4301 /pc.
 45° bend, horizontal and unperforated, for all cable tray types of 60 mm side height.
 Fitting, unperforated, in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

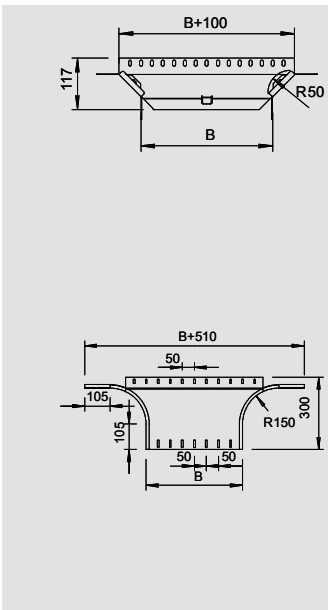


Type	Width mm	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
RB90 610 VA4301	100	1	125.000	7134 12 2
RB90 620 VA4301	200	1	95.000	7134 13 0
RB90 630 VA4301	300	1	150.000	7134 13 8

V2A Stainless steel, 1.4301 /pc.
 90° bend, horizontal, for all cable tray types of 60 mm side height.
 The fitting is shipped in an unmounted state.
 Including appropriate fastening material.

Type	Width mm	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
RBU 90 640VA4301	400	1	500.000	7134 23 1
RBU 90 650VA4301	500	1	650.000	7134 25 8
RBU 90 660VA4301	600	1	825.000	7134 26 6

V2A Stainless steel, 1.4301 /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.

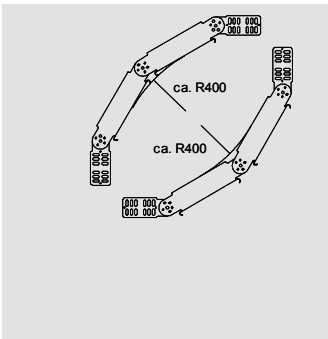


Type	Width mm	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
RAA 610 VA4301	100	1	43.000	7136 12 0
RAA 620 VA4301	200	1	40.000	7136 13 3
RAA 630 VA4301	300	1	50.000	7136 14 1

V2A Stainless steel, 1.4301 /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.

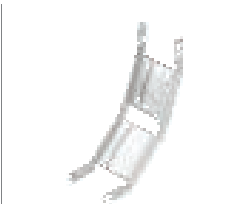
Type	Width mm	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
RAAU 640 VA4301	400	1	220.000	7136 24 2
RAAU 650 VA4301	500	1	255.000	7136 25 0
RAAU 660 VA4301	600	1	285.000	7136 26 9

V2A Stainless steel, 1.4301 /pc.
 Add-on tee, unperforated, for horizontal and vertical use. For all cable tray types of 60 mm side height.
 Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.



Type	Width mm	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
RGBV 610 VA4301	100	1	172.000	7138 11 3
RGBV 620 VA4301	200	1	218.000	7138 12 1
RGBV 630 VA4301	300	1	265.000	7138 14 8
RGBV 640 VA4301	400	1	311.000	7138 15 6
RGBV 660 VA4301	600	1	449.000	7138 17 2

V2A Stainless steel, 1.4301 /pc.
 90° adjustable vertical bend, for all cable tray types with a side height of 60 mm.
 The bend is shipped in an unmounted state. No additional fastening materials are required.



Stainless steel systems V2A



V2A components, material no. 1.4301



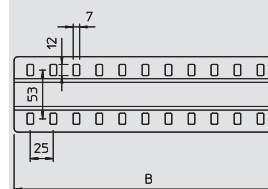
Joint plate

Type	Width mm	Quantity of bolts pc.	Pack. pcs	Weight kg/100 pcs.	Item No.
SSLB 100 VA4301	85	2	20	7.700	7070 35 3
SSLB 200 VA4301	185	2	20	16.700	7070 36 1
SSLB 300 VA4301	285	3	20	25.700	7070 36 5
SSLB 400 VA4301	385	4	20	34.700	7070 36 9
SSLB 500 VA4301	485	5	20	43.700	7070 37 3
SSLB 600 VA4301	585	6	20	52.700	7070 38 1

V2A Stainless steel, 1.4301

/pc.

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



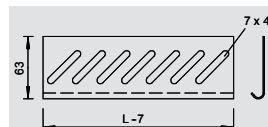
Floor end plate

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BEB 100 VA4301	100	100	5.500	7084 01 3
BEB 200 VA4301	200	100	11.400	7084 04 8
BEB 300 VA4301	300	100	17.200	7084 06 4
BEB 400 VA4301	400	100	23.100	7084 08 0
BEB 500 VA4301	500	50	29.000	7084 10 2
BEB 600 VA4301	600	50	35.000	7084 12 9

V2A Stainless steel, 1.4301

/pc.

For base reinforcement at the ends of the tray and as cable protection.
For fastening, please order bolts, type FRSB M6x12, separately.



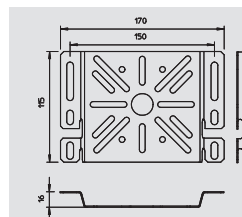
Mounting plate

Type	Height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MP UNI VA4301	115	170	40	13.300	7085 13 3

V2A Stainless steel, 1.4301

/pc.

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



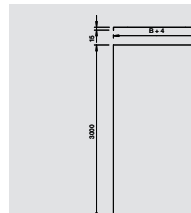
Cover, unperforated

Type	Width mm	Plate thickness mm	Length mm	Weight kg/100 m	Item No.
DRLU 050 VA4301	50	1	3,000	60.000	6052 82 1
DRLU 100 VA4301	100	1	3,000	104.000	6052 82 4
DRLU 150 VA4301	150	1	3,000	138.200	6052 82 8
DRLU 200 VA4301	200	1	3,000	178.000	6052 83 1
DRLU 300 VA4301	300	1	3,000	256.000	6052 83 4
DRLU 400 VA4301	400	1	3,000	334.400	6052 83 7
DRLU 500 VA4301	500	1.25	3,000	516.100	6052 84 1
DRLU 600 VA4301	600	1.25	3,000	614.300	6052 84 4

V2A Stainless steel, 1.4301

/m

Cover for cable trays and mesh cable trays.
Take appropriate constructive protection measures if there are high wind speeds.
Cross beading from 500 mm width.



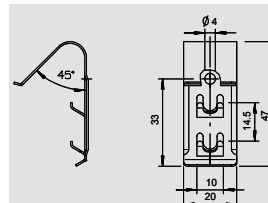
Cover clamp, universal

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DKU 60 VA4310	60	0.650	6065 60 0
DKU 120 VA4310	120	0.650	6065 61 0

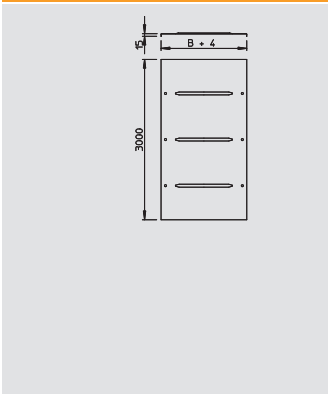
V2A Stainless steel, 1.4310

/100 pc.

Cover clamp for universal fastening of covers on cable trays, mesh cable trays and AZ small ducts.
Depending on the tray width, 4–6 cover clamps are required for secure fastening of a 3 m cover.



V2A components, material no. 1.4301

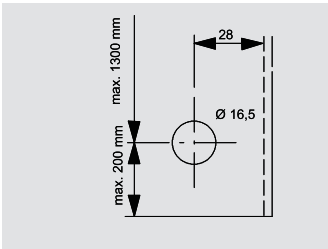


Cover with turn-buckle

Type	Width mm	Plate thickness mm	Length mm	Weight kg/100 m	Item No.
DRL 100 VA4301	100	1	3,000	105.000	6052 87 8
DRL 200 VA4301	200	1	3,000	185.000	6052 89 4
DRL 300 VA4301	300	1	3,000	264.000	6052 90 8
DRL 400 VA4301	400	1	3,000	340.000	6052 93 2
DRL 500 VA4301	500	1.25	3,000	625.000	6052 95 9
DRL 600 VA4301	600	1.25	3,000	745.000	6052 97 5

V2A Stainless steel, 1.4301 /m

Cover for cable trays and cable ladders with three pairs of turn-buckles.
Take appropriate constructive protection measures if there are high wind speeds.
Transverse bead from 500 mm width.

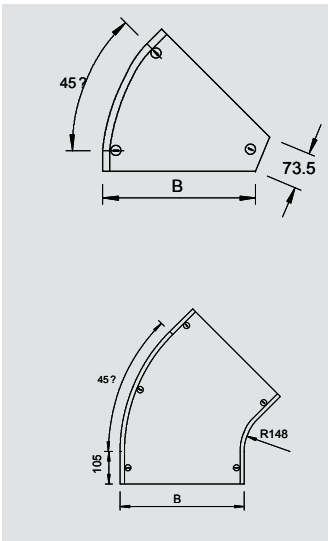


Turn-buckle

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DRLM 316 VA4301	10	2.800	6222 35 8

V2A Stainless steel, 1.4301 /pc.

Turn-buckle for additional installation or installation at a later date.
Single-sided turn-buckle. Use for cover widths of 50 – 600 mm.



Cover for 45° bend

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFB 45 100VA4301	100	1	1	36.000	7133 90 1
DFB 45 200VA4301	200	1	1	65.000	7133 92 8
DFB 45 300VA4301	300	1	1	100.000	7133 93 6

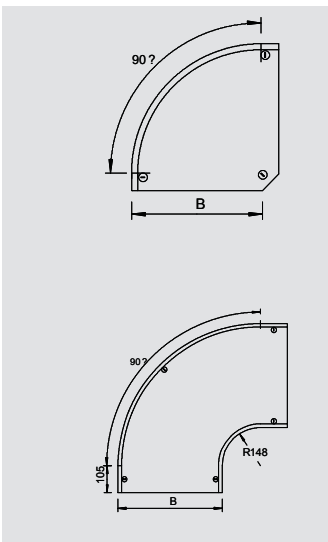
V2A Stainless steel, 1.4301 /pc.

Cover for 45° bend with pre-mounted turn-buckle.
The cover can be used with fittings of all side heights.

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFB 45 400VA4301	400	1.25	1	142.500	7133 94 4
DFB 45 500VA4301	500	1.25	1	180.000	7133 95 2
DFB 45 600VA4301	600	1.25	1	230.000	7133 97 9

V2A Stainless steel, 1.4301 /pc.

Cover for 45° bend with pre-mounted turn-buckle.
The cover can be used with fittings of all side heights.



Cover for 90° bend

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFB 90 100VA4301	100	1	1	70.000	7134 90 8
DFB 90 200VA4301	200	1	1	130.000	7134 91 6
DFB 90 300VA4301	300	1	1	195.000	7134 92 4

V2A Stainless steel, 1.4301 /pc.

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

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFB 90 400VA4301	400	1.25	1	275.000	7134 93 2
DFB 90 500VA4301	500	1.25	1	470.000	7134 94 0
DFB 90 600VA4301	600	1.25	1	607.000	7134 96 7

V2A Stainless steel, 1.4301 /pc.

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



Stainless steel systems V2A





V2A components, material no. 1.4301



Cover for add-on tee

Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFAA 100 VA4301	100	1	1	52.500	7136 90 0
DFAA 200 VA4301	200	1	1	72.000	7136 91 9
DFAA 300 VA4301	300	1	1	92.000	7136 92 7

V2A Stainless steel, 1.4301 /pc.

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

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

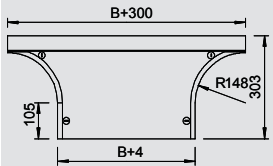
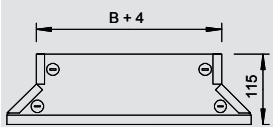


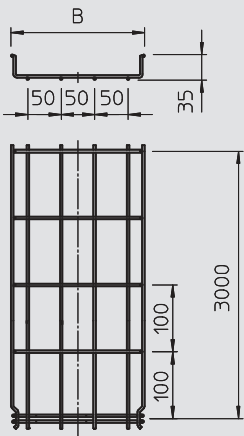
Type	Width mm	Plate thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DFAA 400 VA4301	400	1.25	1	111.500	7136 93 5
DFAA 500 VA4301	500	1.25	1	159.000	7136 94 3
DFAA 600 VA4301	600	1.25	1	183.500	7136 97 8

V2A Stainless steel, 1.4301 /pc.

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

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





Mesh cable tray GR-Magic®



Type	Width mm	Wire Ø mm	Length mm	Useful cross- section cm²	Appr. load:			Weight kg/100 m	Item No.
					1.0 m kN/m	1.5 m kN/m	2.0 m kN/m		
GRM 35 50VA4301	50	3.9	3,000	17,5	0.25	0.11	0.1	45.000	6000 05 4
GRM 35 100VA4301	100	3.9	3,000	35	0.25	0.11	0.1	49.000	6000 05 5
GRM 35 150VA4301	150	3.9	3,000	52,5	0.25	0.11	0.1	62.600	6000 05 6
GRM 35 200VA4301	200	3.9	3,000	70	0.3	0.14	0.1	76.300	6000 05 7
GRM 35 300VA4301	300	4.8	3,000	105	0.75	0.22	0.15	157.900	6000 05 9

V2A Stainless steel, 1.4301

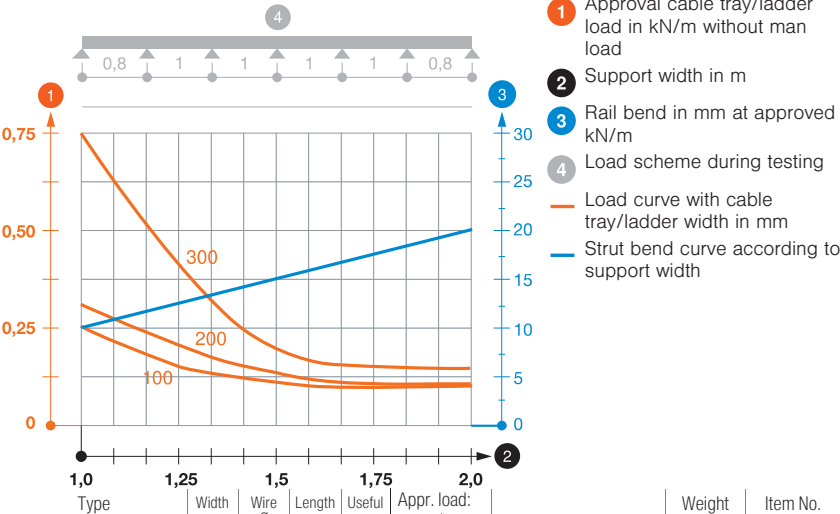
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Mesh cable tray with shaped connector of side height 35 mm.

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

No additional connection components are required for the mesh cable tray, it is simply inter-locked. The grid width is 50 x 100 mm.

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



Type	Width mm	Wire Ø mm	Length mm	Useful cross- section cm²	Appr. load:			Weight kg/100 m	Item No.
					1.0 m kN/m	1.5 m kN/m	2.0 m kN/m		
GRM 55 50VA4301	50	3.9	3,000	16	0.25	0.12	0.08	67.000	6001 07 0
GRM 55 100VA4301	100	3.9	3,000	40	0.25	0.12	0.08	75.000	6001 07 2
GRM 55 150VA4301	150	3.9	3,000	63	0.25	0.12	0.08	88.000	6001 07 4
GRM 55 200VA4301	200	3.9	3,000	87	0.25	0.12	0.08	97.000	6001 07 6
GRM 55 300VA4301	300	4.8	3,000	129	0.6	0.28	0.25	200.000	6001 07 8
GRM 55 400VA4301	400	4.8	3,000	175	0.6	0.28	0.25	243.000	6001 08 0
GRM 55 500VA4301	500	4.8	3,000	220	0.75	0.38	0.25	287.000	6001 08 2
GRM 55 600VA4301	600	4.8	3,000	265	0.75	0.38	0.25	331.000	6001 08 5

V2A Stainless steel, 1.4301

Stained

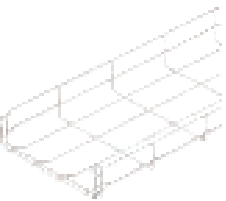
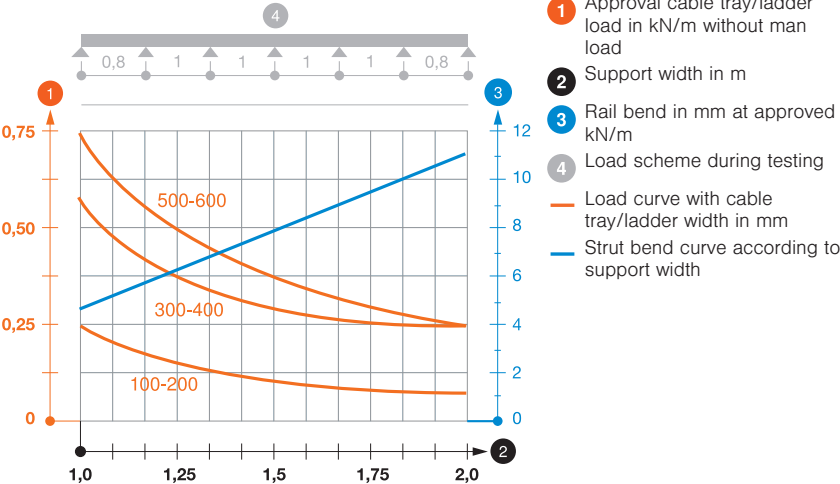
/m

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

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

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

Load diagram, mesh cable tray GRM 55 VA



V2A components, material no. 1.4301



Mesh cable tray GR-Magic®

Type	Width mm	Wire Ø mm	Length mm	Useful cross- section cm²	Appr. load:			Weight kg/100 m	Item No.
					1.0 m kN/m	1.5 m kN/m	2.0 m kN/m		
GRM105 100VA4301	100	3.9	3,000	82	0.8	0.55	0.37	99.000	6002 45 1
GRM105 200VA4301	200	4.8	3,000	175	0.8	0.55	0.37	193.200	6002 45 7
GRM105 300VA4301	300	4.8	3,000	268	1.1	0.75	0.53	235.100	6002 46 0
GRM105 400VA4301	400	4.8	3,000	363	1.1	0.75	0.53	277.100	6002 46 3
GRM105 500VA4301	500	4.8	3,000	459	1.25	0.85	0.6	319.100	6002 46 6

V2A Stainless steel, 1.4301 Stained /m

Mesh cable tray with shaped connector of side height 105 mm.

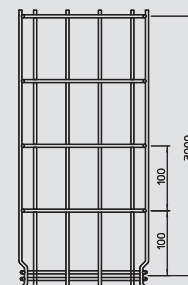
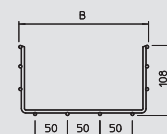
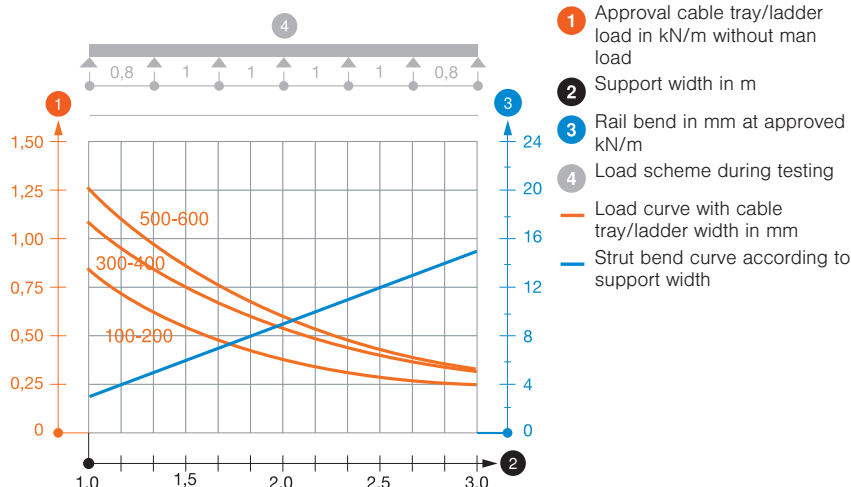
No additional connector components required.

Just lock them together and you're done!

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

No additional connection components are required for the mesh cable tray, it is simply inter-locked. The grid width is 50 x 100 mm.

Load diagram, mesh cable tray, type GRM 105

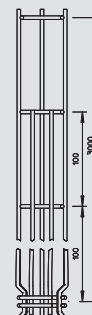
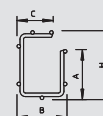


G mesh cable tray Magic, side height 50 mm

Type	Dimen- sion B mm	Dimen- sion H mm	Dimen- sion C mm	Dimen- sion A mm	Length mm	Weight kg/100 m	Item No.
G-GRM 50 50 VA	55	55	33	40	3,000	67.100	6005 55 0

V2A Stainless steel, 1.4301 /m

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

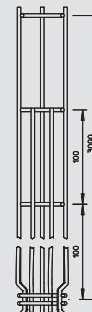
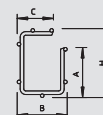


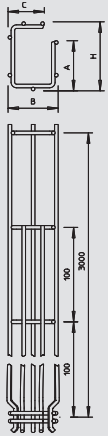
G mesh cable tray Magic, side height 75 mm

Type	Dimen- sion B mm	Dimen- sion H mm	Dimen- sion C mm	Dimen- sion A mm	Length mm	Weight kg/100 m	Item No.
G-GRM 75 50 VA	53	73	40	53	3,000	79.900	6005 55 3

V2A Stainless steel, 1.4301 /m

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





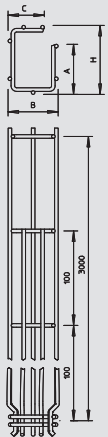
G mesh cable tray Magic, side height 125 mm

Type	Dimension B mm	Dimension H mm	Dimension C mm	Dimension A mm	Length mm	Weight kg/100 m	Item No.
G-GRM 125 75 VA	75	125	40	96	3,000	109.000	6005 55 6

V2A Stainless steel, 1.4301

/m

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



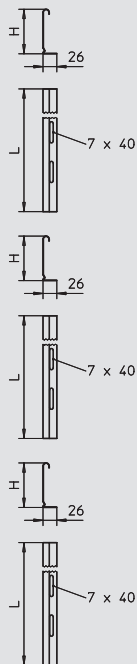
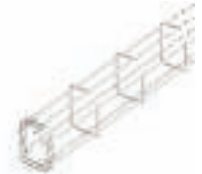
G mesh cable tray Magic, side height 150 mm

Type	Dimension B mm	Dimension H mm	Dimension C mm	Dimension A mm	Length mm	Weight kg/100 m	Item No.
G-GRM 150 100 VA	100	155	70	120	3,000	128.000	6005 55 9

V2A Stainless steel, 1.4301

/m

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



Barrier strip

Type	Dimension H mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 30 VA4301	30	3,000	45	0.000	6062 05 2

V2A Stainless steel, 1.4301

/m

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

Type	Dimension H mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 45 VA4301	45	3,000	45	0.000	6062 02 5

V2A Stainless steel, 1.4301

/m

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

Type	Dimension H mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 85 VA4301	85	3,000	45	0.000	6062 17 3

V2A Stainless steel, 1.4301

/m

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



Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1.000	6067 97 0

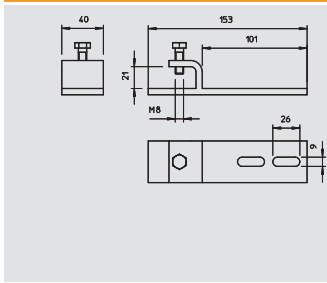
V2A Stainless steel, 1.4310

/pc.

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



V2A components, material no. 1.4301



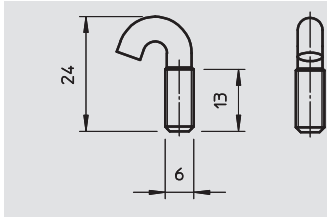
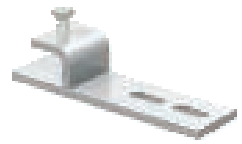
Beam clamp, horizontal

Type	Dimension B mm	Dimension b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
BFK 153 33VA4301	153	101	25	36.000	6003 87 3
BFK 187 33VA4301	187	135	20	42.000	6003 87 9

V2A Stainless steel, 1.4301 Stained

Beam clamp for clamping on the steel girder.

The cable support system attached to the beam clamp is horizontal routing.

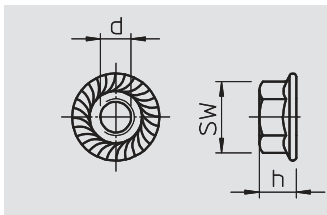


Hook screw

Type	Thread	Pack. pcs	Weight kg/100 pcs.	Item No.
HS M6 VA4567	M6	100	0.500	1154 99 0

V2A Stainless steel, 1.4567

Hook screw for fastening mesh cable trays on the bracket or the beam clamp, type BFK.

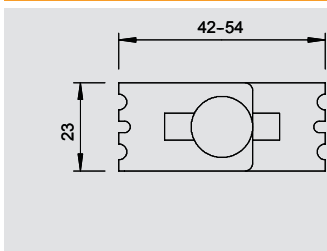
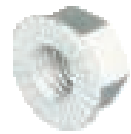


Combination nut

Type	Dimension d mm	Dimension h mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KM M6 VA4301	6	6	10	100	0.315	6408 96 6

V2A Stainless steel, 1.4301

Nut with pressed washer.



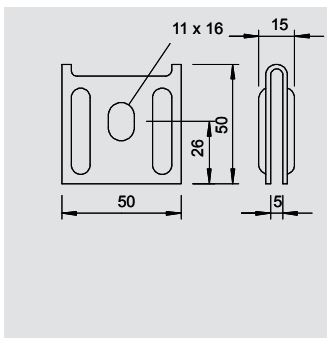
Corner connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GEV 36 VA4301	100	3.000	6016 73 1

V2A Stainless steel, 1.4301

Corner connector for the creation of mesh cable tray bends.

Including FRS M6 x 12 bolt with nut-and-washer assembly.



Wall clamp and central hanger

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
K12 1818 VA4301	25	7.600	6016 42 1

V2A Stainless steel, 1.4301

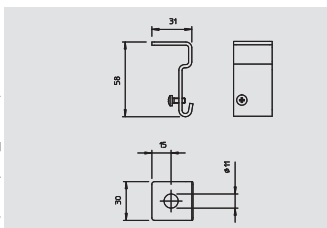
Wall clamp and central hanger for mesh cable trays.

Recommendation:

As wall mounting up to max. mesh cable tray width 200 mm.

As centre suspension up to max. mesh cable tray width 200 mm.

As a trapeze suspension from a width of 300 mm.

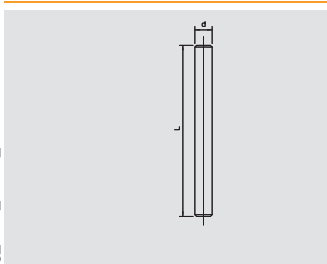


Side holder

Type	For threaded rod	Pack. pcs	Weight kg/100 pcs.	Item No.
SH M10 VA4401	M10	20	5.500	6015 34 0

V4A Stainless steel, 1.4401

Side holder for suspension of mesh cable trays.



Threaded rod

Type	Thread	Dimension d mm	Dimension L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2078 M8 VA	M8	8	1,000	50	30.000	3141 31 0
2078 M10 VA	M10	10	1,000	25	49.000	3141 31 2
2078 M12 VA	M12	12	1,000	20	70.000	3141 31 4

V2A Stainless steel, 1.4301

Threaded rod to DIN 976.



V2A components, material no. 1.4301



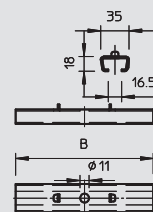
Central suspension

Type	Dimension B	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
GMS 170 VA4401	170	25	20.000	6015 41 8
GMS 270 VA4401	270	25	32.000	6015 41 9
GMS 370 VA4401	370	25	43.000	6015 42 0
GMS 470 VA4401	470	10	55.000	6015 42 1
GMS 570 VA4401	570	10	67.000	6015 42 2

V4A Stainless steel, 1.4401

/pc.

Central suspension including clamp for mesh cable tray suspensions.



Mounting plate

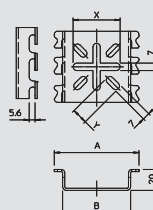
Type	Dimension A	Dimension B	Dimension x	Dimension y	Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs	kg/100 pcs.	
MPG 65 VA4404	81	65	45	15	30	8.800	6006 48 8
MPG 90 VA4404	111	95	45	38	30	16.100	6006 48 9

V4A Stainless steel, 1.4404

/pc.

Mounting plate for screwless fastening on mesh cable trays.

Accessories can be fastened to the mounting plate. In addition, the mounting plate can be used for wall mounting.



Cover, unperforated

Type	Width	Plate thickness	Length	Weight	Item No.
	mm	mm	mm	kg/100 m	
DRLU 050 VA4301	50	1	3,000	60.000	6052 82 1
DRLU 100 VA4301	100	1	3,000	104.000	6052 82 4
DRLU 150 VA4301	150	1	3,000	138.200	6052 82 8
DRLU 200 VA4301	200	1	3,000	178.000	6052 83 1
DRLU 300 VA4301	300	1	3,000	256.000	6052 83 4
DRLU 400 VA4301	400	1	3,000	334.400	6052 83 7
DRLU 500 VA4301	500	1.25	3,000	516.100	6052 84 1
DRLU 600 VA4301	600	1.25	3,000	614.300	6052 84 4

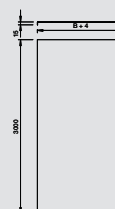
V2A Stainless steel, 1.4301

/m

Cover for cable trays and mesh cable trays.

Take appropriate constructive protection measures if there are high wind speeds.

Cross beading from 500 mm width.



Cover clamp, universal

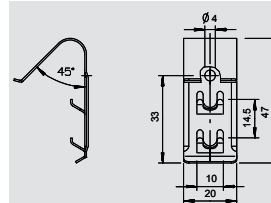
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
DKU 60 VA4310	60	0.650	6065 60 0
DKU 120 VA4310	120	0.650	6065 61 0

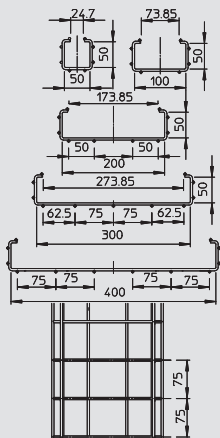
V2A Stainless steel, 1.4310

/100 pc.

Cover clamp for universal fastening of covers on cable trays, mesh cable trays and AZ small ducts.

Depending on the tray width, 4–6 cover clamps are required for secure fastening of a 3 m cover.





C mesh cable tray



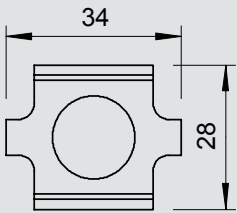
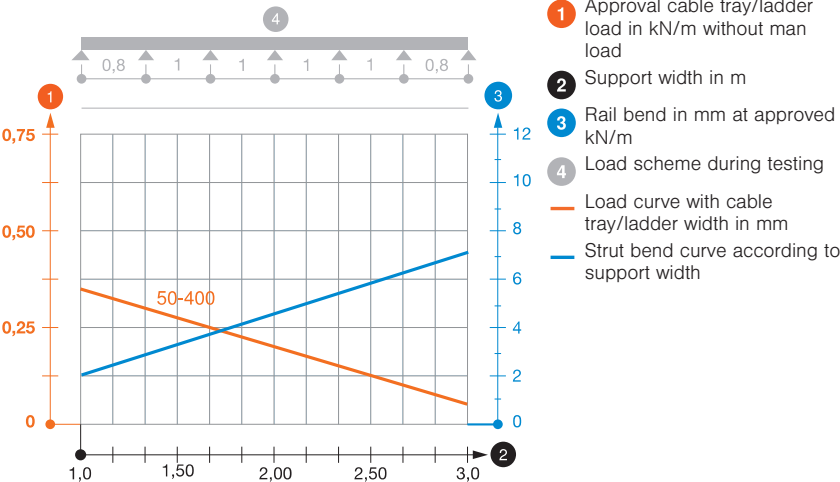
Type	Width mm	Wire Ø mm	Length mm	Useful cross- section cm²	Appr. load:			Weight kg/100 m	Item No.
					1.0 m	1.5 m	2.0 m		
CGR 50 50 VA4301	50	4.5	3,000	13	0.32	0.25	0.18	125.400	6016 20 0
CGR 50 100VA4301	100	4.5	3,000	33	0.32	0.25	0.18	133.600	6016 23 5
CGR 50 200VA4301	200	4.5	3,000	74	0.32	0.25	0.18	181.000	6016 25 1

V2A Stainless steel, 1.4301 Stained /m

C-shaped mesh cable tray made of spot-welded steel wire of side height 50 mm.

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

Load diagram, C mesh cable tray CGR 50 VA

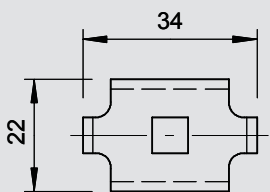


Joint connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GSV 34 VA4301	25	3.000	6016 64 2

V2A Stainless steel, 1.4301

Screwed version of joint connector for mesh cable trays.
Including FRS M6 x 20 bolt with nut-and-washer assembly.

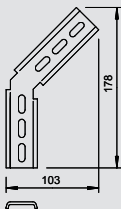


Clamping piece

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GKS 34 VA4301	100	2.000	6016 83 9

V2A Stainless steel, 1.4301

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



45° installation profile

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
MW 45 SL10VA4301	50	20.000	6017 33 9

V2A Stainless steel, 1.4301

45° installation profile, vertical, for C mesh cable tray and GR-Magic mesh cable tray with a side height of 55 mm.
Each with two clamps of type KS 23/35.





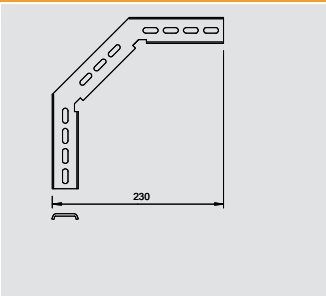
V2A components, material no. 1.4301



90° installation profile

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
MW 90 SL17VA4301	50	27.000	6016 27 8
MW 90 SL23VA4301	25	34.700	6016 30 8

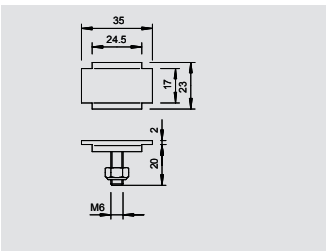
V2A Stainless steel, 1.4301 /pc.
90° installation profile, vertical, for C mesh cable tray and GR-Magic mesh cable tray with a side height of 55 mm.
Each with two clamps of type KS 23/35.



Clamping piece

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KS 23 35 VA4301	100	2.015	6016 52 9

V2A Stainless steel, 1.4301 /pc.
Clamp for installation profile, type MW 45 and MW 90.
Including self-locking M6 hexagonal nut.

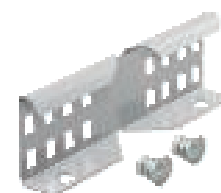
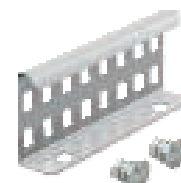




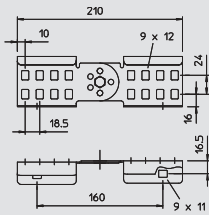
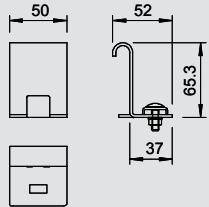
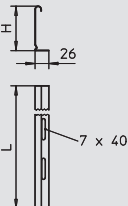
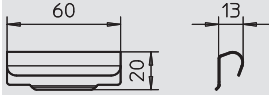
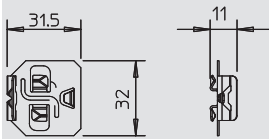
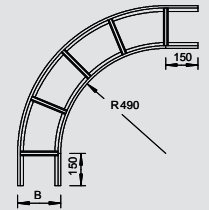
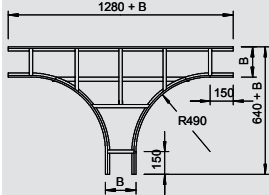
- 1 Approval cable tray/ladder load in kN/m without man load
- 2 Support width in m
- 3 Rail bend in mm at approved kN/m
- 4 Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width



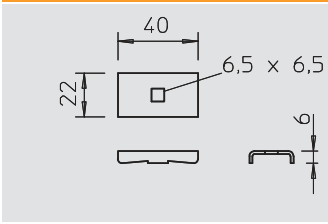
Technical drawing of a rectangular plate. The main view shows a plate with overall dimensions of 150 (width) by 24 (height). It features a 3x6 grid of rectangular holes, each measuring 9 x 12. The distance between the center of adjacent holes is 18.5. The plate has a 10-unit wide flange on the left and a 16-unit wide flange on the right. A detail view at the bottom shows a cross-section of the plate with a thickness of 16.5 and a width of 100. It also shows a hole with dimensions 9 x 11.



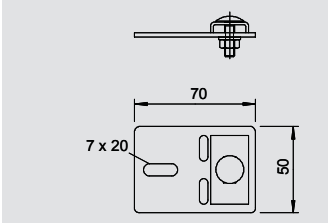
V2A components, material no. 1.4301

	Articulated connector <table> <tr> <th>Type</th><th>Side height mm</th><th>Pack. pcs</th><th>Weight kg/100 pcs.</th><th>Item No.</th></tr> <tr> <td>LGVG 60 VA4301</td><td>60</td><td>10</td><td>29.000</td><td>6208 94 7</td></tr> </table> V2A Stainless steel, 1.4301 Bright /pc. Adjustable connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation. Angle can be adjusted vertically. The bolt fastening ensures the continuity of the equipotential bonding.	Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.	LGVG 60 VA4301	60	10	29.000	6208 94 7																					
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.																												
LGVG 60 VA4301	60	10	29.000	6208 94 7																												
	Connection piece <table> <tr> <th>Type</th><th>Pack. pcs</th><th>Weight kg/100 pcs.</th><th>Item No.</th></tr> <tr> <td>LAS 60 VA4301</td><td>10</td><td>15.000</td><td>6221 38 6</td></tr> </table> V2A Stainless steel, 1.4301 /pc. Connector for creation of branches at the same height at a later date. To increase the cable supporting surface, use a conjunction of corner plates of type LEB.	Type	Pack. pcs	Weight kg/100 pcs.	Item No.	LAS 60 VA4301	10	15.000	6221 38 6																							
Type	Pack. pcs	Weight kg/100 pcs.	Item No.																													
LAS 60 VA4301	10	15.000	6221 38 6																													
	Barrier strip <table> <tr> <th>Type</th><th>Dimen- sion H mm</th><th>Dimen- sion L mm</th><th>Pack. m</th><th>Weight kg/100 m</th><th>Item No.</th></tr> <tr> <td>TSG 45 VA4301</td><td>45</td><td>3,000</td><td>45</td><td>0.000</td><td>6062 02 5</td></tr> </table> V2A Stainless steel, 1.4301 /m Barrier strip for separation of cables of different voltages or functions.	Type	Dimen- sion H mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.	TSG 45 VA4301	45	3,000	45	0.000	6062 02 5																			
Type	Dimen- sion H mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.																											
TSG 45 VA4301	45	3,000	45	0.000	6062 02 5																											
	Barrier strip connector <table> <tr> <th>Type</th><th>Pack. pcs</th><th>Weight kg/100 pcs.</th><th>Item No.</th></tr> <tr> <td>TSGV VA4310</td><td>10</td><td>1.000</td><td>6067 97 0</td></tr> </table> V2A Stainless steel, 1.4310 /pc. Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.	Type	Pack. pcs	Weight kg/100 pcs.	Item No.	TSGV VA4310	10	1.000	6067 97 0																							
Type	Pack. pcs	Weight kg/100 pcs.	Item No.																													
TSGV VA4310	10	1.000	6067 97 0																													
	Clamping piece for barrier strip fastening <table> <tr> <th>Type</th><th>Pack. pcs</th><th>Weight kg/100 pcs.</th><th>Item No.</th></tr> <tr> <td>KS KL VA4310</td><td>30</td><td>0.512</td><td>6062 28 4</td></tr> </table> V2A Stainless steel, 1.4310 /100 pc. Clamping piece for screwless fastening of barrier strips in cable ladders.	Type	Pack. pcs	Weight kg/100 pcs.	Item No.	KS KL VA4310	30	0.512	6062 28 4																							
Type	Pack. pcs	Weight kg/100 pcs.	Item No.																													
KS KL VA4310	30	0.512	6062 28 4																													
	90° bend <table> <tr> <th>Type</th><th>Width mm</th><th>Pack. pcs</th><th>Weight kg/100 pcs.</th><th>Item No.</th></tr> <tr> <td>LBI 90 620 VS VA</td><td>200</td><td>1</td><td>358.000</td><td>7160 04 6</td></tr> <tr> <td>LBI 90 630 VS VA</td><td>300</td><td>1</td><td>412.000</td><td>7160 05 4</td></tr> <tr> <td>LBI 90 640 VS VA</td><td>400</td><td>1</td><td>497.000</td><td>7160 06 2</td></tr> <tr> <td>LBI 90 650 VS VA</td><td>500</td><td>1</td><td>558.000</td><td>7160 08 9</td></tr> <tr> <td>LBI 90 660 VS VA</td><td>600</td><td>1</td><td>664.000</td><td>7160 09 7</td></tr> </table> V2A Stainless steel, 1.4301 /pc. 90° bend, horizontal, for cable ladders with VS rungs and a side height of 60 mm. Connectors should be ordered separately and in the appropriate quantity.	Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.	LBI 90 620 VS VA	200	1	358.000	7160 04 6	LBI 90 630 VS VA	300	1	412.000	7160 05 4	LBI 90 640 VS VA	400	1	497.000	7160 06 2	LBI 90 650 VS VA	500	1	558.000	7160 08 9	LBI 90 660 VS VA	600	1	664.000	7160 09 7	
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.																												
LBI 90 620 VS VA	200	1	358.000	7160 04 6																												
LBI 90 630 VS VA	300	1	412.000	7160 05 4																												
LBI 90 640 VS VA	400	1	497.000	7160 06 2																												
LBI 90 650 VS VA	500	1	558.000	7160 08 9																												
LBI 90 660 VS VA	600	1	664.000	7160 09 7																												
	T piece <table> <tr> <th>Type</th><th>Width mm</th><th>Pack. pcs</th><th>Weight kg/100 pcs.</th><th>Item No.</th></tr> <tr> <td>LT 620 VS VA4301</td><td>200</td><td>1</td><td>677.000</td><td>7162 02 2</td></tr> <tr> <td>LT 630 VS VA4301</td><td>300</td><td>1</td><td>789.000</td><td>7162 04 9</td></tr> <tr> <td>LT 640 VS VA4301</td><td>400</td><td>1</td><td>871.000</td><td>7162 05 7</td></tr> <tr> <td>LT 650 VS VA4301</td><td>500</td><td>1</td><td>952.000</td><td>7162 07 3</td></tr> <tr> <td>LT 660 VS VA4301</td><td>600</td><td>1</td><td>1,094.000</td><td>7162 08 1</td></tr> </table> V2A Stainless steel, 1.4301 /pc. Horizontal tee, for cable ladders with VS rungs and a side height of 60 mm. Connectors should be ordered separately and in the appropriate quantity.	Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.	LT 620 VS VA4301	200	1	677.000	7162 02 2	LT 630 VS VA4301	300	1	789.000	7162 04 9	LT 640 VS VA4301	400	1	871.000	7162 05 7	LT 650 VS VA4301	500	1	952.000	7162 07 3	LT 660 VS VA4301	600	1	1,094.000	7162 08 1	
Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.																												
LT 620 VS VA4301	200	1	677.000	7162 02 2																												
LT 630 VS VA4301	300	1	789.000	7162 04 9																												
LT 640 VS VA4301	400	1	871.000	7162 05 7																												
LT 650 VS VA4301	500	1	952.000	7162 07 3																												
LT 660 VS VA4301	600	1	1,094.000	7162 08 1																												

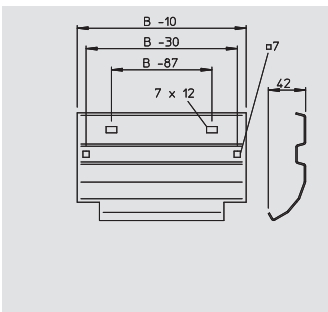
V2A components, material no. 1.4301



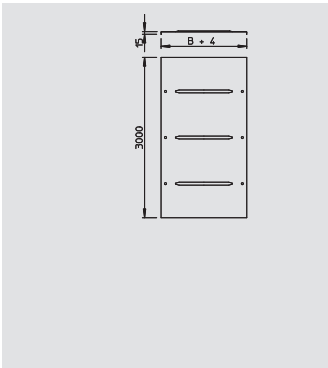
Clamping piece			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
LKS 40 VA4301	10	2.000	6017 13 4
V2A Stainless steel, 1.4301 /pc.			
Clamp for fastening cable ladders.			



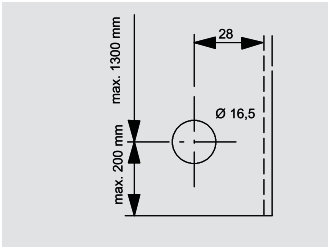
Support			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
LAL 70 VA4301	20	10.200	6221 01 7
V2A Stainless steel, 1.4301 /pc.			
Support for fastening rising or falling cable ladders.			



Exit plate			
Type	Width	Pack.	Weight
	mm	pcs	kg/100 pcs.
LAB 20 VA4301	200	20	24.000
LAB 30 VA4301	300	25	36.000
LAB 40 VA4301	400	25	48.000
LAB 50 VA4301	500	15	61.000
LAB 60 VA4301	600	15	73.000
V2A Stainless steel, 1.4301 /pc.			
Exit plate for installation on the rung for vertically exiting cables.			



Cover with turn-buckle			
Type	Width	Plate thickness	Length
	mm	mm	mm
DRL 200 VA4301	200	1	3,000
DRL 300 VA4301	300	1	3,000
DRL 400 VA4301	400	1	3,000
DRL 500 VA4301	500	1.25	3,000
DRL 600 VA4301	600	1.25	3,000
V2A Stainless steel, 1.4301 /m			
Cover for cable trays and cable ladders with three pairs of turn-buckles.			
Take appropriate constructive protection measures if there are high wind speeds.			
Transverse bead from 500 mm width.			



Turn-buckle			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
DRLM 316 VA4301	10	2.800	6222 35 8
V2A Stainless steel, 1.4301 /pc.			
Turn-buckle for additional installation or installation at a later date.			
Single-sided turn-buckle. Use for cover widths of 50 – 600 mm.			



V2A components, material no. 1.4301



Wide span cable tray WKSG 110

Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm ²	Appr. load:				Weight kg/100 m	Item No.
					4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	8.0 m kN/m		
WKSG 120 VA 4301	200	2	6,000	202	1.6	1.1	0.75	0.2	717.000	6098 16 1
WKSG 130 VA 4301	300	2	6,000	305	1.6	1.1	0.75	0.2	825.000	6098 16 5
WKSG 140 VA 4301	400	2	6,000	408	2.0	1.5	1.0	0.4	933.200	6098 16 9
WKSG 150 VA 4301	500	2	6,000	511	2.0	1.5	1.0	0.4	1,041.200	6098 17 3
WKSG 160 VA 4301	600	2	6,000	614	2.0	1.5	1.0	0.4	1,149.300	6098 17 7

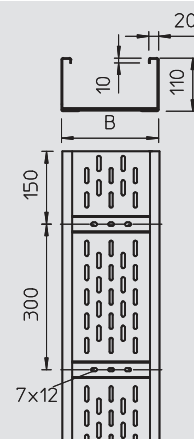
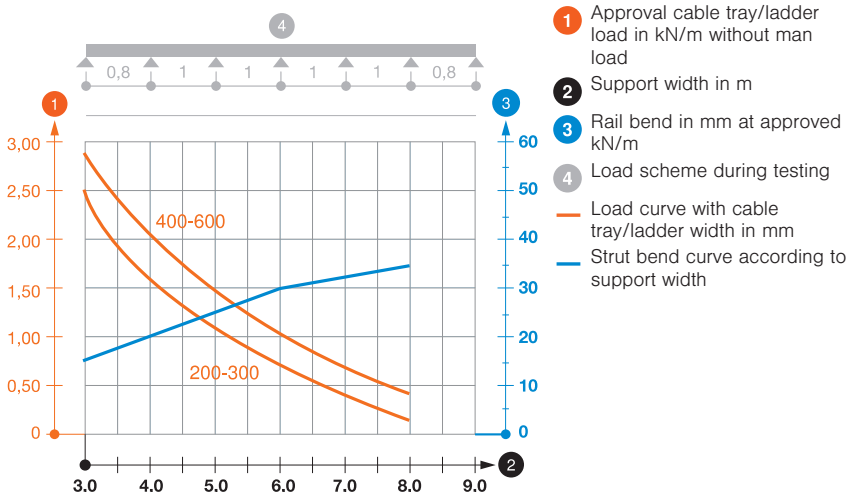
V2A Stainless steel, 1.4301 Bright /m

WKSG 110 = wide span cable tray system, perforated, with a side height of 110 mm.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.

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

Load diagram, wide span cable tray, type WKSG 110



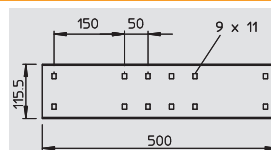
Straight connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRVL 110 VA4301	110	2	143.000	6091 22 9

V2A Stainless steel, 1.4301 /pc.

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

Including appropriate bolts, washers and nuts.



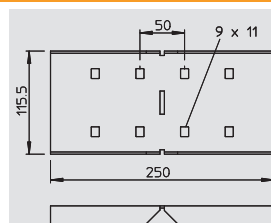
Angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWVK 110 VA4301	110	2	90.000	6091 39 3

V2A Stainless steel, 1.4301 /pc.

Angle connector for wide span cable trays and ladders with a side height of 110 mm.

Including appropriate bolts, washers and nuts.



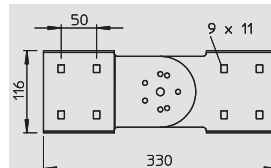
Articulated connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRGV 110 VA4301	110	2	120.000	6091 33 8

V2A Stainless steel, 1.4301 /pc.

Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.

Including appropriate bolts, washers and nuts.

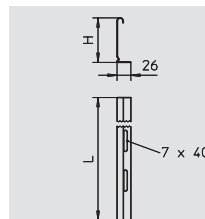


Barrier strip

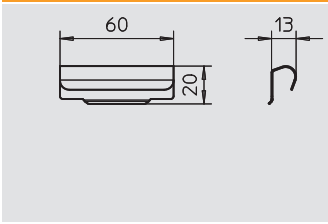
Type	Dimen- sion H mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
TSG 85 VA4301	85	3,000	45	0.000	6062 17 3

V2A Stainless steel, 1.4301 /m

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

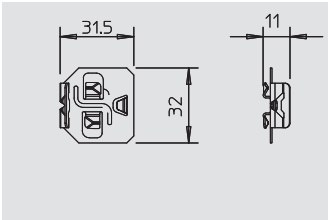


V2A components, material no. 1.4301



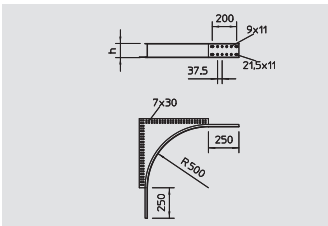
Barrier strip connector

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
TSGV VA4310	10	1.000	6067 97 0
V2A Stainless steel, 1.4310 /pc.			
Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.			



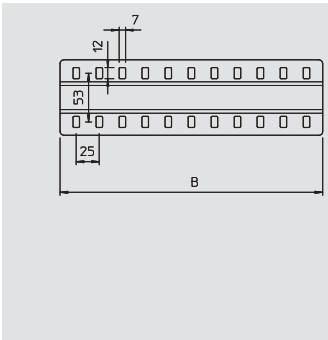
Clamping piece for barrier strip fastening

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KS KL VA4310	30	0.512	6062 28 4
V2A Stainless steel, 1.4310 /100 pc.			
Clamping piece for screwless fastening of barrier strips in cable ladders.			



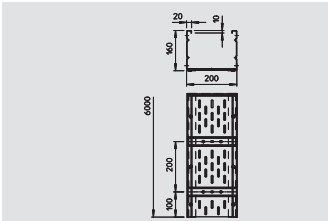
Add-on corner

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WEAS 110 VA4301	110	1	504.000	6098 48 3
V2A Stainless steel, 1.4301				/pc.
Add-on corner for wide span cable trays and ladders with a side height of 110 mm.				



Joint plate

Type	Width mm	Quantity of bolts pc.	Pack. pcs	Weight kg/100 pcs.	Item No.
SSLB 200 VA4301	185	2	20	16.700	7070 36 1
SSLB 300 VA4301	285	3	20	25.700	7070 36 5
SSLB 400 VA4301	385	4	20	34.700	7070 36 9
SSLB 500 VA4301	485	5	20	43.700	7070 37 3
SSLB 600 VA4301	585	6	20	52.700	7070 38 1
V2A Stainless steel, 1.4301					/pc.
Wide joint plate for use in all cable trays and wide span cable trays.					
Including appropriate fastening material.					

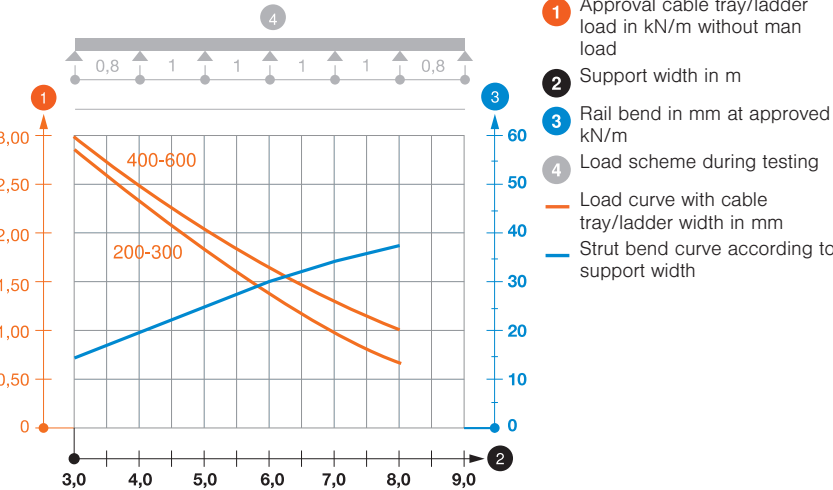


Wide span cable tray WKSG 160

Type	Width	Plate thickness	Length	Useful cross-section	Appr. load:				Weight	Item No.
	mm	mm	mm	cm²	4.0 m	5.0 m	6.0 m	8.0 m	kg/100 m	
WKSG 162 VA 4301	200	2	6,000	302	2.3	1.8	1.4	0.7	871.800	6098 57 1
WKSG 163 VA 4301	300	2	6,000	455	2.3	1.8	1.4	0.7	979.200	6098 57 3
WKSG 164 VA 4301	400	2	6,000	608	2.5	2.0	1.6	1.0	1,088.000	6098 57 5
WKSG 165 VA 4301	500	2	6,000	761	2.5	2.0	1.6	1.0	1,196.200	6098 57 7
WKSG 166 VA 4301	600	2	6,000	914	2.5	2.0	1.6	1.0	1,304.300	6098 57 9
V2A Stainless steel, 1.4301 Bright /m										

WKSG 110 = wide span cable tray system, perforated, with a side height of 110 mm.
Magnetic shield insulation without cover 20 dB, with cover 50 dB.
Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

Load diagram, wide span cable tray, type WKSG 160



Stainless steel systems V2A

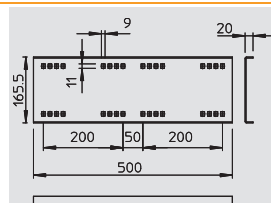


V2A components, material no. 1.4301



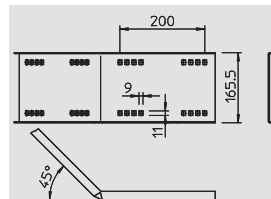
Straight connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRVL 160 VA4301	160	2	218.000	6227 72 4
V2A Stainless steel, 1.4301 Bright /pc.				
Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 160 mm.				
Including appropriate bolts, washers and nuts.				

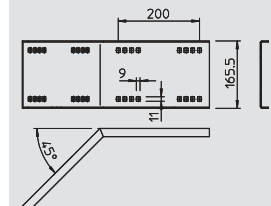


Angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWV 160 I V2A	160	1	239.000	6227 91 4
V2A Stainless steel, 1.4301 /pc.				
45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.				
Including appropriate bolts, washers and nuts.				

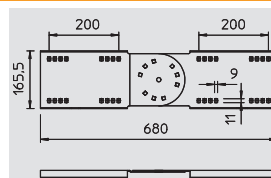


Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWV 160 A V2A	160	1	234.000	6227 86 8
V2A Stainless steel, 1.4301 /pc.				
45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.				
Including appropriate bolts, washers and nuts.				



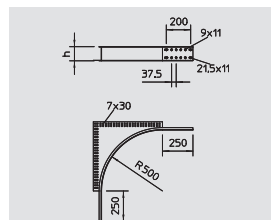
Articulated connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRGV 160 VA4301	160	1	310.000	6227 96 5
V2A Stainless steel, 1.4301 /pc.				
Articulated connector for wide span cable trays and ladders with a side height of 160 mm.				
Including appropriate bolts, washers and nuts.				



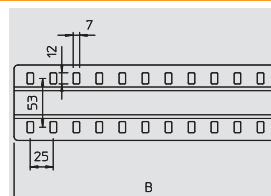
Add-on corner

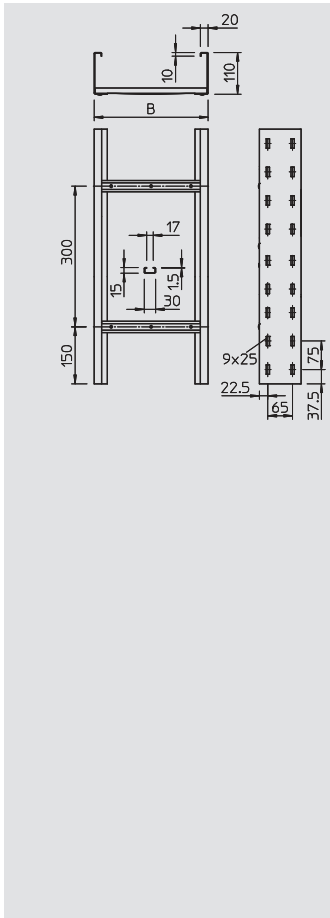
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WEAS 160 VA4301	160	1	702.000	6098 86 8
V2A Stainless steel, 1.4301 /pc.				
Add-on corner for wide span cable trays and ladders with a side height of 110 mm.				



Joint plate

Type	Width	Quantity of bolts	Pack.	Weight	Item No.
	mm	pc.	pcs	kg/100 pcs.	
SSLB 200 VA4301	185	2	20	16.700	7070 36 1
SSLB 300 VA4301	285	3	20	25.700	7070 36 5
SSLB 400 VA4301	385	4	20	34.700	7070 36 9
SSLB 500 VA4301	485	5	20	43.700	7070 37 3
SSLB 600 VA4301	585	6	20	52.700	7070 38 1
V2A Stainless steel, 1.4301					/pc.
Wide joint plate for use in all cable trays and wide span cable trays.					
Including appropriate fastening material.					





Wide span cable ladder WKL 110

Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm²	Appr. load:				Weight kg/100 m	Item No.
					4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m		
WKL 1120 VA4301	200	2	6,000	186	1.6	1.1	0.8	0.4	567.000	6311 20 2
WKL 1130 VA4301	300	2	6,000	281	1.6	1.1	0.8	0.4	593.000	6311 20 6
WKL 1140 VA4301	400	2	6,000	376	2.1	1.5	1.0	0.7	620.000	6311 21 0
WKL 1150 VA4301	500	2	6,000	471	2.1	1.5	1.0	0.7	630.000	6311 21 4
WKL 1160 VA4301	600	2	6,000	566	2.1	1.5	1.0	0.7	674.000	6311 21 8

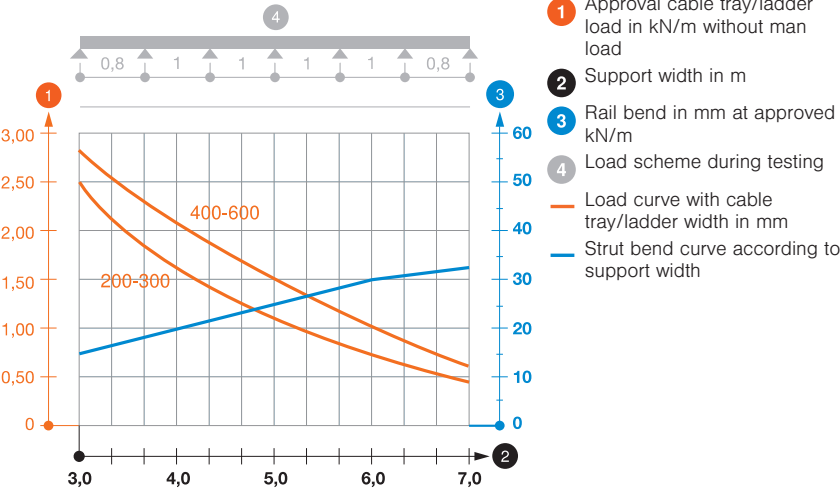
V2A Stainless steel, 1.4301 /m

WKL 110 = wide span cable ladder with perforated side rails of side height of 110 mm.

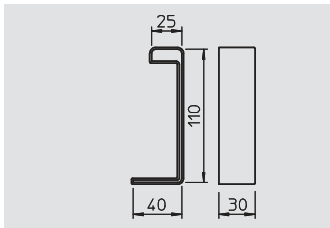
Magnetic shield insulation without cover 10 dB, with cover 15 dB.

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

Load diagram, wide span cable ladder, type WKL 110.



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

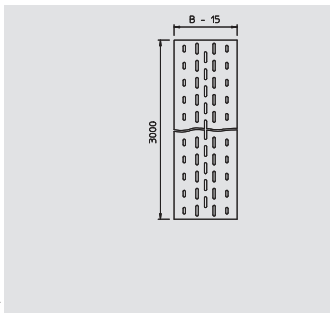


Protective cap

Type	Colour	Pack. pair	Weight kg/100 pairs	Item No.
SKHW 110 OR	Pastel orange	20	4.400	6310 39 8

PE Polyethylene /pair

Protective cap to cover the ends of wide span cable ladders.

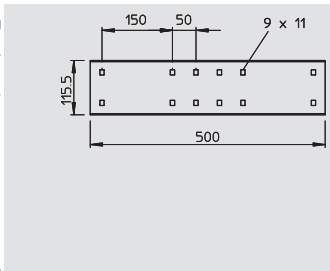


Insertion plate

Type	Width mm	Length mm	Weight kg/100 m	Item No.
ELB-L20 VA4301	200	3,000	132.000	6103 61 4
ELB-L30 VA4301	300	3,000	199.000	6103 61 8
ELB-L40 VA4301	400	3,000	264.000	6103 62 2
ELB-L50 VA4301	500	3,000	330.000	6103 62 6
ELB-L60 VA4301	600	3,000	395.000	6103 63 0

V2A Stainless steel, 1.4301 /m

Insert plate for use in cable ladders.



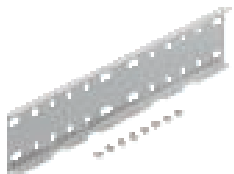
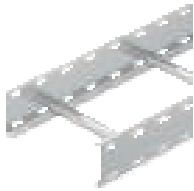
Straight connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRVL 110 VA4301	110	2	143.000	6091 22 9

V2A Stainless steel, 1.4301 /pc.

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

Including appropriate bolts, washers and nuts.



V2A components, material no. 1.4301

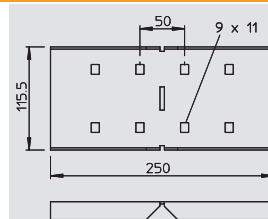


Angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRWVK 110 VA4301	110	2	90.000	6091 39 3

V2A Stainless steel, 1.4301

Angle connector for wide span cable trays and ladders with a side height of 110 mm.
Including appropriate bolts, washers and nuts.

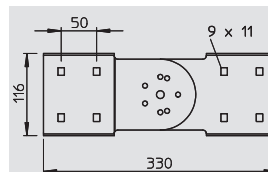


Articulated connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WRGV 110 VA4301	110	2	120.000	6091 33 8

V2A Stainless steel, 1.4301

Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.
Including appropriate bolts, washers and nuts.

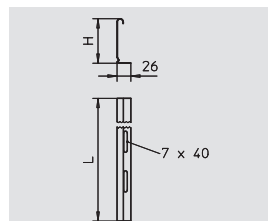


Barrier strip

Type	Dimen- sion H mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
TSG 85 VA4301	85	3.000	45	0.000	6062 17 3

V2A Stainless steel, 1.4301

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

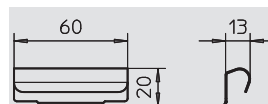


Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1.000	6067 97 0

V2A Stainless steel, 1.4310

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

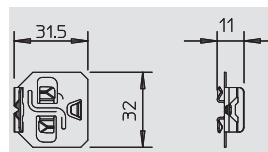


Clamping piece for barrier strip fastening

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KL VA4310	30	0.512	6062 28 4

V2A Stainless steel, 1.4310

Clamping piece for screwless fastening of barrier strips in cable ladders.

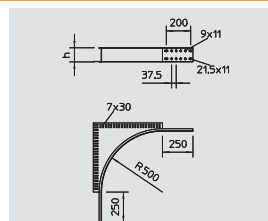


Add-on corner

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WEAS 110 VA4301	110	1	504.000	6098 48 3

V2A Stainless steel, 1.4301

Add-on corner for wide span cable trays and ladders with a side height of 110 mm.

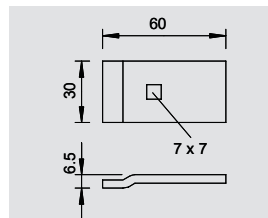


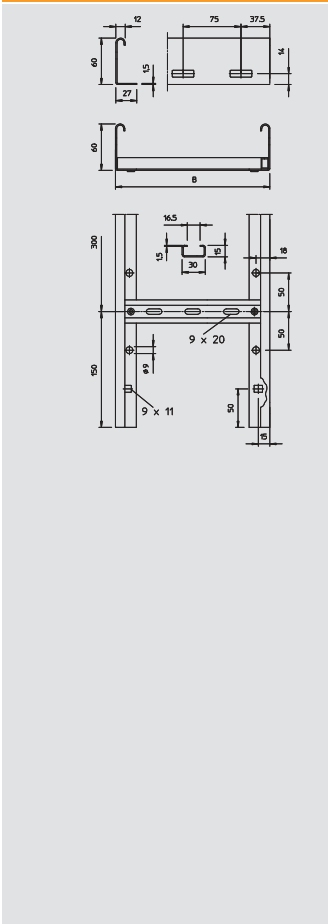
Clamping piece

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LKS 60 4 VA4301	50	8.000	6221 13 0

V2A Stainless steel, 1.4301

Clamp for fastening cable ladders.
Fastening on brackets, type AW 15, AW 30 and AW 55, using the enclosed truss-head bolt FRS M6x20.





Vertical ladder



Type	Width mm	Rail thickness mm	Length mm	Appr. load:				Weight kg/100 m	Item No.
				2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m		
LG 620 VS VA4301	200	1.5	6,000	2.0	1.5	1.15	0.45	273.800	6208 70 0
LG 630 VS VA4301	300	1.5	6,000	2.0	1.5	1.15	0.45	298.000	6208 70 3
LG 640 VS VA4301	400	1.5	6,000	2.0	1.5	1.15	0.45	322.200	6208 70 6
LG 650 VS VA4301	500	1.5	6,000	2.0	1.5	1.15	0.45	346.300	6208 70 9
LG 660 VS VA4301	600	1.5	6,000	2.0	1.5	1.15	0.45	378.300	6208 71 2

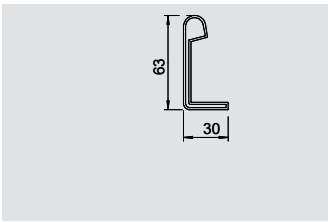
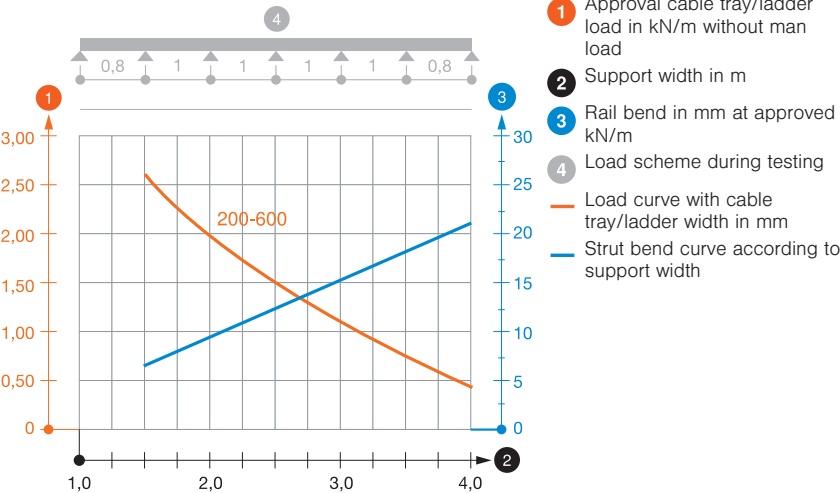
V2A Stainless steel, 1.4301 /m

Cable ladder with perforated side rail of side height 60 mm with riveted C profile rungs, open in an upwards direction (VS version).

Magnetic shield insulation without cover 10 dB, with cover 15 dB.

The cable ladder is shipped folded up.

Load diagram, LG 60 VS



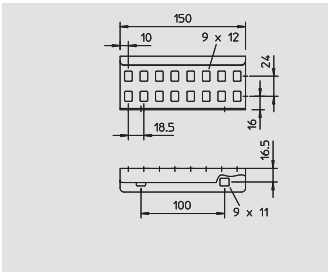
Protective cap



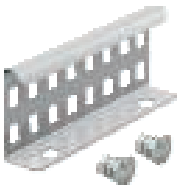
Type	Colour	Pack.	Weight	Item No.
SKH 60 OR	Pastel orange	pair	kg/100 pairs	
PE Polyethylene		40	1.100	6222 53 7

/pair

Protective cap to cover cable ladder ends of side height 60 mm.



Straight connector

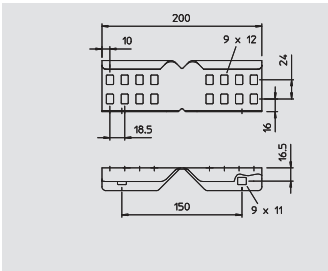


Type	Side height mm	Pack.	Weight	Item No.
LVG 60 VA4301	60	pcs	kg/100 pcs.	
V2A Stainless steel, 1.4301 Bright		20	22.000	6208 84 6

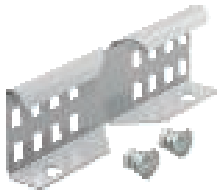
/pc.

Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.



Angle connector

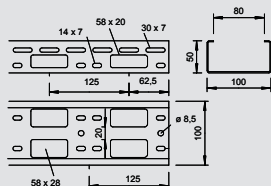


Type	Side height mm	Pack.	Weight	Item No.
LWVG 60 VA4301	60	pcs	kg/100 pcs.	
V2A Stainless steel, 1.4301 Bright		20	24.000	6208 89 8

/pc.

Angle connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.



Magnetic shield insulation without cover 20 dB, with cover 50 dB.



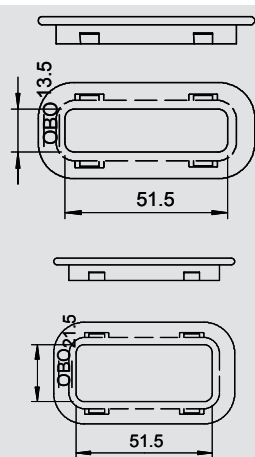
Magnetic shield insulation without cover 20 dB, with cover 50 dB.



Type	Colour	For perforation	Pack.	Weight	Item No.
		mm	pcs	kg/100 pcs.	

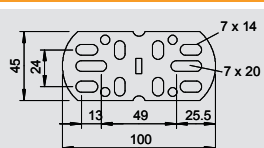


Cable protection ring for bottom penetrations in AZ channels and luminaire support trays.



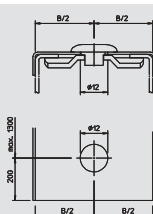
V2A Stainless steel, 1.4301

An adjustable connector can be created using two straight and angle connectors. Scope of delivery includes bolts and nuts.



V2A Stainless steel, 1.4301

Cover with turn-buckle for AZ channel.



V2A	Stainless steel, 1.4301	Stained

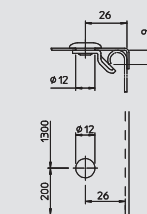
Turn-buckle for installation in the cover for AZ channel of width 50 mm at a later date.

V2A components, material no. 1.4301



Turn-buckle

Type	For width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
AZDR 100 VA4301	100	10	2.600	6065 31 7
V2A Stainless steel, 1.4301 Stained /pc.				
Turn-buckle for installation in the cover for AZ channel and BKK system at a later date.				

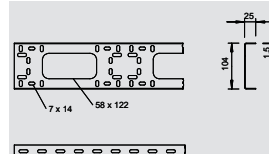


BKK basic profile

Type	Plate thickness mm	Dimension mm	Length mm	Weight kg/100 m	Item No.
BKK 104 VA4301	1.5	104 x 25	3,000	140.000	6070 77 9
V2A Stainless steel, 1.4301					/m

BKK basic profile for creation of individual cable trays.

The BKK basic profiles are the basis for a modular system, which is primarily used for large industrial and commercial systems. In particular in locations where the largest possible unsupported support spacings with high load capacities per running metre of tray are required along with building-related, individual adjustments to local conditions. The BKK basic profiles can always be used for cable tray combinations of side and bottom profiles.

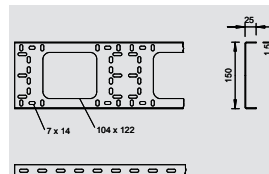


BKK basic profile

Type	Plate thickness mm	Dimension mm	Length mm	Weight kg/100 m	Item No.
BKK 150 VA4301	1.5	150 x 25	3,000	163.000	6070 78 7
V2A Stainless steel, 1.4301					/m

BKK basic profile for creation of individual cable trays.

The BKK basic profiles are the basis for a modular system, which is primarily used for large industrial and commercial systems. In particular in locations where the largest possible unsupported support spacings with high load capacities per running metre of tray are required along with building-related, individual adjustments to local conditions. The BKK basic profiles can always be used for cable tray combinations of side and bottom profiles.

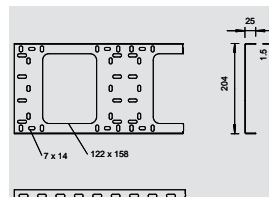


BKK basic profile

Type	Plate thickness mm	Dimension mm	Length mm	Weight kg/100 m	Item No.
BKK 200 VA4301	1.5	200 x 25	3,000	230.000	6070 79 5
V2A Stainless steel, 1.4301					/m

BKK basic profile for creation of individual cable trays.

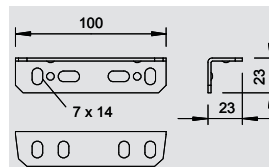
The BKK basic profiles are the basis for a modular system, which is primarily used for large industrial and commercial systems. In particular in locations where the largest possible unsupported support spacings with high load capacities per running metre of tray are required along with building-related, individual adjustments to local conditions. The BKK basic profiles can always be used for cable tray combinations of side and bottom profiles.



Joint connector

Type	Plate thickness mm	Dimension mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SSV VA4301	2	23 x 23 x 100	25	9.800	6066 05 4
V2A Stainless steel, 1.4301					/pc.

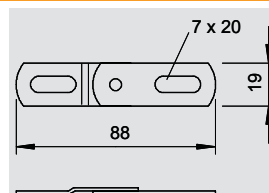
Joint connector for horizontal connection of BKK basic profiles.

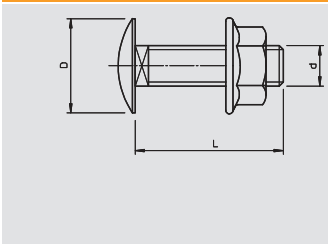


Hinge connector

Type	Plate thickness mm	Dimension mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SV VA4301	2	86 x 23	50	4.800	6066 93 3
V2A Stainless steel 1.4301					/pc.

Hinge connector for vertical connections of BKK systems.





Truss-head bolt with combination nut

Type	Grade	Dimen- sion mm	Dimen- sion L mm	Dimen- sion d mm	Dimen- sion D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRSB 6X12 VA4301	1.4301	M6 x 12	12	6	16	100	0.830	6406 13 8
FRSB 6X16 VA4301	1.4301	M6 x 16	16	6	16	100	0.800	6406 18 9

V2A Stainless steel, 1.4301 /100 pc.
Truss-head bolt with square neck including nut-and-washer assembly.





Stainless steel systems V4A

	V4A components, material no. 1.4571	Suspended supports	380
		Brackets	384
		Cable trays	387
		Mesh cable trays	391
		Cable ladders	394



V4A components, material no. 1.4571



US 3 suspended support

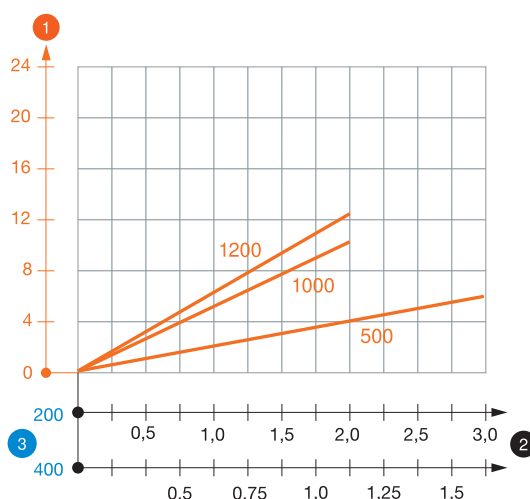
Type	Length mm	Material thickness mm	Bracket length 200 kN	Bracket length 400 kN	Pack. pcs	Weight kg/100 pcs.	Item No.
US 3 K 20VA4571	200	2	2.7	1.5	1	44.000	6342 37 5
US 3 K 30VA4571	300	2	2.7	1.5	1	58.000	6342 53 0
US 3 K 40VA4571	400	2	2.7	1.5	4	71.000	6342 37 9
US 3 K 50VA4571	500	2	2.7	1.5	1	84.000	6342 38 1
US 3 K 60VA4571	600	2	2.1	1.1	1	97.000	6342 38 9
US 3 K 70VA4571	700	2	2.1	1.1	1	110.000	6342 39 1
US 3 K 80VA4571	800	2	2.1	1.1	1	123.000	6342 39 3
US 3 K 90VA4571	900	2	2.1	1.1	1	137.000	6342 39 5
US 3 K 100VA4571	1,000	2	2.1	1.1	1	150.000	6342 39 7

V4A Stainless steel, 1.4571 Stained /pc.

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

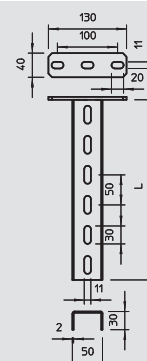
For fastening to horizontal concrete ceilings and steel girders. In the case of bracket mounting on both sides, or when mounting the bracket at the end of the suspended support, use the spacer of type DSK 25.

Load diagram, U support, type US 3 K



Characteristic anchor load values for US 3 K suspended support

Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing $a_i = 10$ cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

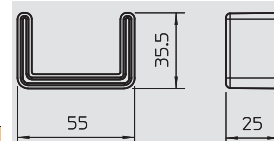


Protective cap

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
US 3 KS OR	Pastel orange	20	1.070	6338 45 8

PE Polyethylene

Protective cap to cover the ends of US 3 supports.



US 3 support

Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 3 30 VA4571	300	2	1	39.500	6342 48 5
US 3 50 VA4571	500	2	1	65.800	6342 48 8
US 3 100 VA4571	1,000	2	1	131.700	6342 49 1
US 3 150 VA4571	1,500	2	1	197.500	6342 49 4
US 3 200 VA4571	2,000	2	1	263.300	6342 49 7
US 3 600 VA4571	6,000	2	1	789.900	6342 50 5

V4A Stainless steel, 1.4571 Stained /pc.

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

In the case of bracket mounting on both sides, or when mounting the bracket at the end of the suspended support, use the spacer of type DSK 25.



V4A components, material no. 1.4571



US 5 suspended support

Type	Length mm	Material thickness mm	Bracket length 200 kN	Bracket length 400 kN	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 K 20 VA4571	200	2.5	5.75	3.1	1	82.000	6341 20 9
US 5 K 30 VA4571	300	2.5	5.75	3.1	2	106.000	6341 21 3
US 5 K 40 VA4571	400	2.5	5.75	3.1	1	131.000	6341 21 7
US 5 K 50 VA4571	500	2.5	5.75	3.1	1	155.000	6341 22 1
US 5 K 60 VA4571	600	2.5	5.75	3.1	1	180.000	6341 22 5
US 5 K 70 VA4571	700	2.5	5.75	3.1	1	205.000	6341 22 8
US 5 K 80 VA4571	800	2.5	5.75	3.1	1	230.000	6341 23 3
US 5 K 90 VA4571	900	2.5	5.75	3.1	1	255.000	6341 23 7
US 5 K 100 VA4571	1,000	2.5	5.75	3.1	1	279.000	6341 24 1
US 5 K 110 VA4571	1,100	2.5	4.0	2.2	1	302.000	6341 24 5
US 5 K 120 VA4571	1,200	2.5	4.0	2.2	1	328.000	6341 24 9

V4A Stainless steel, 1.4571 Stained

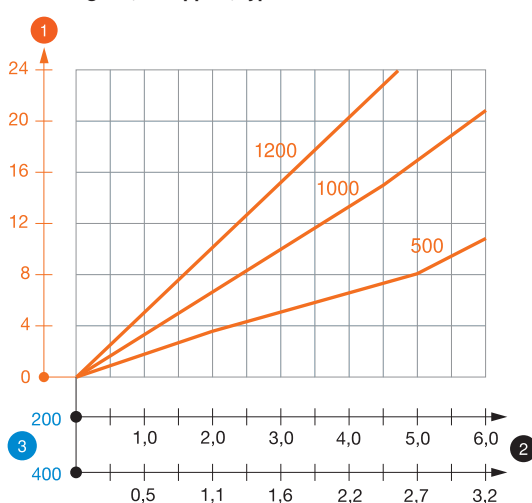
/pc.

U support with welded head plate.

For fastening to horizontal concrete ceilings and steel girders.

In the case of bracket installation on both sides, or when installing the bracket at the end of the support, use the spacer of type DSK 45.

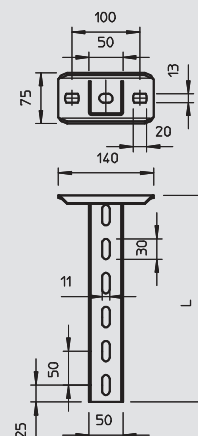
Load diagram, U support, type US 5 K VA



- 1 Bending of the end of the suspended support at approved bracket load
 - 2 Approved bracket load in kN without man load
 - 3 Bracket length in mm
- Load curves with support lengths in mm

Characteristic anchor load values for US 5 K support

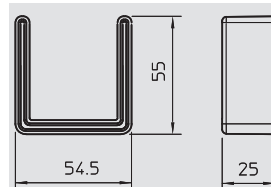
Max. total load F = cable weight + cable tray + bracket + support. The tabular values for double-sided loads take the available axis spacing $a_i = 10$ cm into account. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).



Protective cap

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 KS OR	Pastel orange	20	1.300	6338 46 2
PE	Polyethylene			/pc.

Protective cap for end covering of US 5 supports.



US 5 support

Type	Length mm	Material thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 30 VA4571	300	2.5	1	73.000	6341 05 3
US 5 40 VA4571	400	2.5	1	97.000	6341 05 5
US 5 50 VA4571	500	2.5	1	121.000	6341 05 7
US 5 60 VA4571	600	2.5	1	145.000	6341 05 9
US 5 80 VA4571	800	2.5	1	193.000	6341 06 3
US 5 90 VA4571	900	2.5	1	217.000	6341 06 5
US 5 300 VA4571	3,000	2.5	1	726.000	6341 07 3

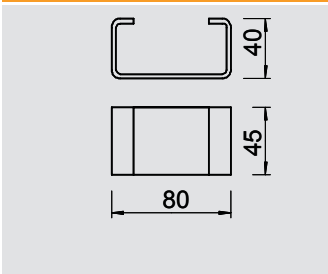
V4A Stainless steel, 1.4571

/pc.

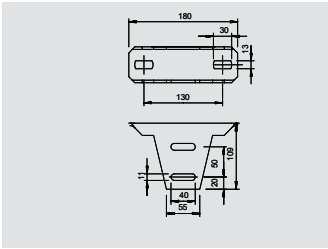
U support in fixed lengths. Dimensions 50 x 50 mm.

In the case of bracket installation on both sides, or when installing the bracket at the end of the support, use the spacer of type DSK 45.

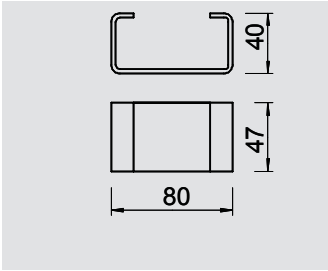




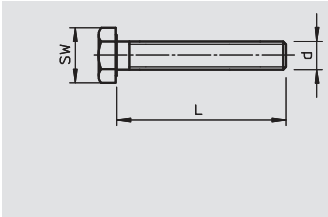
Spacer			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
DSK 45 VA4571	25	15.000	6416 46 2
V4A Stainless steel, 1.4571 /pc.			
Spacer for use in U 5 supports.			
For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the throughout hexagonal bolt.			



Head plate			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KU 5 V VA4571	1	81.000	6348 92 7
V4A Stainless steel, 1.4571 Stained /pc.			
Variable head plate for installation on US 5 support.			
The spacer, type DSK 47, is used to install the head plate.			



Spacer			
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
DSK 47 VA4571	25	16.000	6416 51 1
V4A Stainless steel, 1.4571 /pc.			
Spacer for use in head plate, type KU 5 V.			
For static reasons, the spacer is always used to increase stability to prevent the head plate from deforming when the bolts are tightened.			



				Hexagonal bolt		
Type	Dimen- sion mm	Dimen- sion L mm	Dimen- sion d mm	SW mm	Pack.	Weight
					pcs	kg/100 pcs.
SKS 10X80 VA4401	M10 x 80	80	10	17	20	7.800
V4A Stainless steel, 1.4401						6418 24 8
						/pc.
Hexagonal bolt for universal fastening of construction components.						



V4A components, material no. 1.4571



Wall and support bracket AW 15

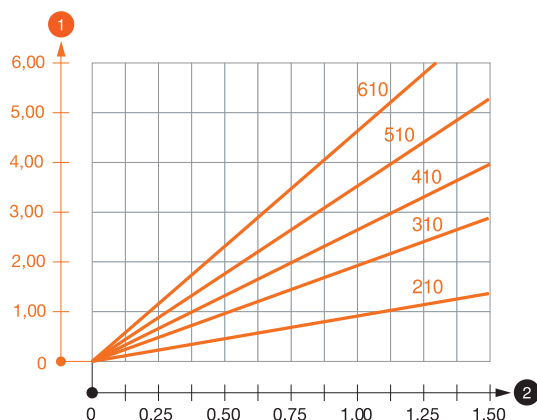
Type	Width mm	Dimen- sion H mm	Dimen- sion A mm	Hole Ø mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AW 15 11 VA4571	110	50	40	11	1.5	30	14.100	6392 00 8
AW 15 21 VA4571	210	60	40	11	1.5	30	25.600	6392 01 6
AW 15 31 VA4571	310	65	40	11	1.5	30	35.200	6392 02 4
AW 15 41 VA4571	410	70	40	11	1.5	30	55.000	6392 03 2
AW 15 51 VA4571	510	75	40	11	1.5	20	68.000	6392 04 0
AW 15 61 VA4571	610	80	40	11	1.5	20	85.000	6392 05 9

V4A Stainless steel, 1.4571 Stained /pc.

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

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

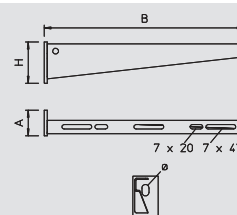
Load diagram, bracket AW 15 VA



- 1 Bending of the bracket point at approved bracket load
 - 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm

Characteristic anchor load values for wall and support bracket AW 15

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



Wall and support bracket AWG 15

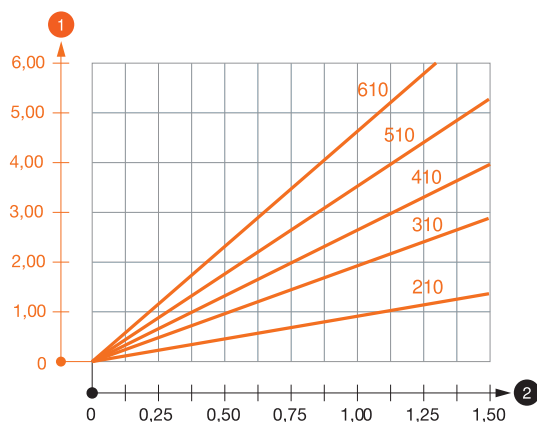
Type	Width mm	Dimen- sion H mm	Dimen- sion A mm	Hole Ø mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AWG 15 11 VA4571	110	65	40	11	1.5	30	13.000	6420 64 2
AWG 15 21 VA4571	210	65	40	11	1.5	30	25.000	6420 64 4
AWG 15 31 VA4571	310	65	40	11	1.5	30	33.000	6420 64 6
AWG 15 41 VA4571	410	65	40	11	1.5	30	53.000	6420 64 8
AWG 15 51 VA4571	510	65	40	11	1.5	20	65.000	6420 65 0
AWG 15 61 VA4571	610	65	40	11	1.5	20	80.000	6420 65 2

V4A Stainless steel, 1.4571 Stained /pc.

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

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

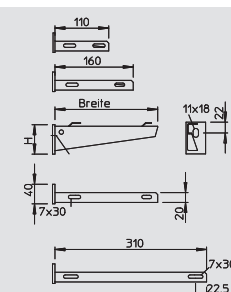
Load diagram, bracket type AW G 15

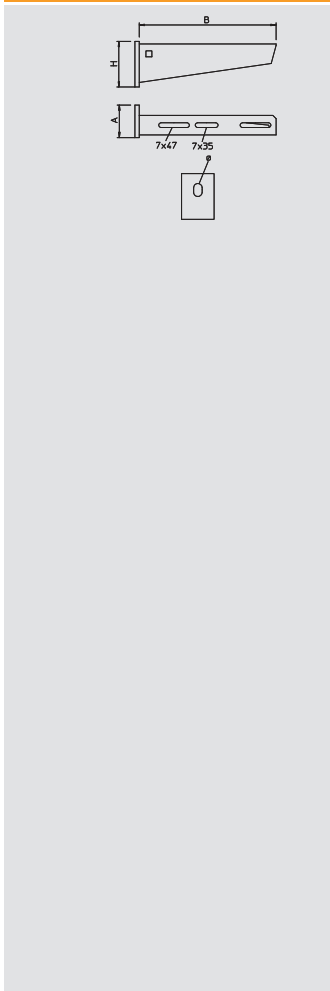


- 1 Bending of the bracket point at approved bracket load
 - 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm

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

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 class C20/25. Comply with the installation conditions of the DIBt approval (anchors).





Wall and support bracket AW 30

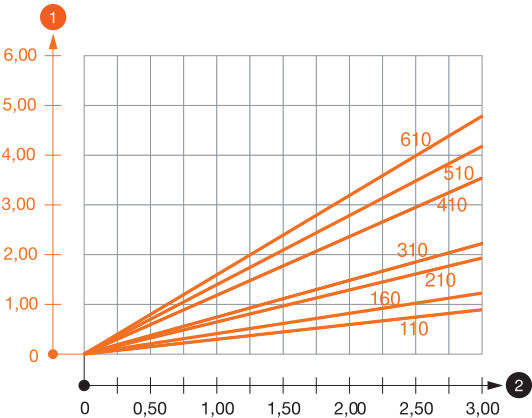


Type	Width	Dimen- sion H	Dimen- sion A	Hole Ø	F in kN	Pack.	Weight	Item No.
	mm	mm	mm	mm	kN	pcs	kg/100 pcs.	
AW 30 11 VA4571	110	60	50	11	3.0	30	21.200	6443 61 5
AW 30 21 VA4571	210	70	50	13	3.0	25	38.000	6443 31 1
AW 30 31 VA4571	310	80	50	13	3.0	25	61.000	6443 62 1
AW 30 41 VA4571	410	80	50	13	3.0	20	86.000	6443 34 6
AW 30 51 VA4571	510	90	50	13	3.0	10	126.000	6443 62 5
AW30 56 VA4571	560	100	50	13	3.0	10	142.000	6443 62 6
AW 30 61 VA4571	610	100	50	13	3.0	10	154.000	6443 62 7

V4A Stainless steel, 1.4571 Stained /pc.

Medium-duty wall and support bracket with welded head plate.
Fastening of the bracket to the U support of width 400 mm or greater using hexagonal bolt through both sides of the support. Please insert suitable spacers.

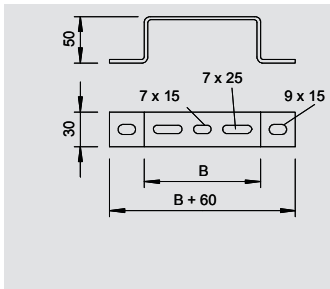
Load diagram, bracket AW 30



- 1 Bending of the bracket point at approved bracket load
 - 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm

Characteristic anchor load values for wall and support bracket AW 30

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



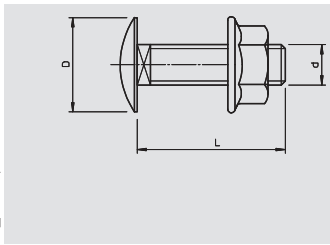
Stand-off bracket



Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
DBL 50 100VA4401	100	20	15.800	6015 63 0
DBL 50 200VA4401	200	20	22.800	6015 63 2
DBL 50 300VA4401	300	20	38.000	6015 63 3
DBL 50 400VA4401	400	20	47.400	6015 63 4

V4A Stainless steel, 1.4401 /pc.

Stand-off bracket for cable trays and mesh cable trays.



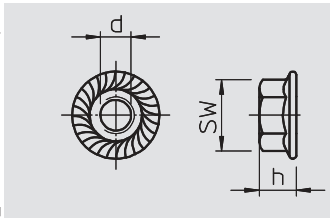
Truss-head bolt with combination nut



Type	Dimen- sion	Dimen- sion L	Dimen- sion d	Dimen- sion D	Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs	kg/100 pcs.	
FRSB 6X12 VA4401	M6 x 12	12	6	16	100	0.796	6406 14 2
FRSB 6X16 VA4401	M6 x 16	16	6	16	100	0.800	6406 19 3

V4A Stainless steel, 1.4401 /100 pc.

Truss-head bolt with square neck including combination nut.



Combination nut



Type	Thread	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
KM M6 VA4401	M 6	100	0.315	6408 97 0

V4A Stainless steel, 1.4401 /100 pc.

Combination nut with pressed washer.



V4A components, material no. 1.4571



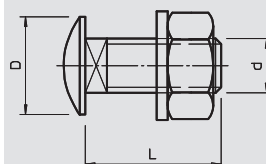
Truss-head bolt with nut and washer

Type	Dimension mm	Dimension L mm	Dimension d mm	Dimension D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRS 6X12 VA4401	M6 x 12	12	6	16	100	0.820	6406 56 4
FRS 6X16 VA4401	M6 x 16	16	6	16	100	0.900	6406 58 0
FRS 6X20 VA4401	M6 x 20	20	6	16	100	1.000	6406 61 0
FRS 10X20 VA4401	M10 x 20	20	10	24	50	4.000	6406 87 0
FRS 10X20SVA4401	M10 x 20	20	10	24	50	4.100	6406 87 2
FRS 12X25 VA4401	M12 x 25	25	12	30	25	6.400	6406 78 5

V4A Stainless steel, 1.4401

/100 pc.

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



Anchor bolt

Type	Thread	Dimension L mm	Dimension d mm	Clamping range mm	Perm. load range, tension zone kN	Pack. pcs	Weight kg/100 pcs.	Item No.
FAZ II 10/10GS V	M 10	90	10	10	3.57	50	7.680	3498 82 4
FAZ II 12/10 VA	M12	103	12	10	4.76	20	10.400	3498 85 9

V4A Stainless steel, 1.4401

/100 pc.

Anchor bolt for fastening high loads. Matches OBO mounting systems and wall support brackets and supports.

With European technical approval no.: ETA-01/0015

GS = with large washer, external diameter approx. 2.5 x drill diameter.

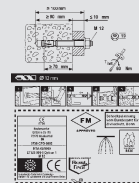
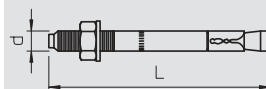
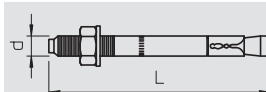
Type	Thread	Dimension L mm	Dimension d mm	Clamping range mm	Perm. load range, tension zone kN	Pack. pcs	Weight kg/100 pcs.	Item No.
FAZ II 810VA4401	M8	77	8	10	2.4	50	0.000	3498 50 9
FAZ II 830VA4401	M8	97	8	30	2.4	50	0.000	3498 48 7
FAZ II 10/50 V4A	M10	115	10	50	4.3	20	8.280	3498 83 5

V4A Stainless steel, 1.4401

Stained

/100 pc.

* GS= Large washer



Impact tie

Type	Thread	Dimension D mm	Dimension L mm	Screw-in depth min.-max. mm	Perm. load range, tension zone kN	Pack. pcs	Weight kg/100 pcs.	Item No.
FZEA II 10X40 VA	M8	10	40	11-17	1.5	100	1.550	3492 14 5
FZEA II 12X40 VA	M10	12	40	13-19	1.5	100	2.075	3492 15 0

V4A Stainless steel, 1.4401

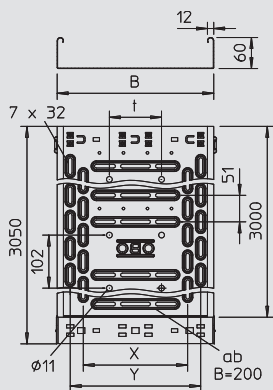
/100 pc.

Impact tie with internal thread

Approval no.: Z-21.1-958



RKSM cable tray



Type	Width mm	Plate thickness mm	Length mm	Useful cross-section cm ²	Dimen- sion x mm	Dimen- sion y mm	Dimen- sion t mm	Appr. load: 1.5 m kN/m	2.0 m kN/m	Weight kg/100 m	Item No.
RKSM 610 VA4571	100	0.75	3,050	58	—	50	—	0.9	0.5	134.300	6047 61 4
RKSM 615 VA4571	150	0.75	3,050	88	50	100	—	1.0	0.55	157.700	6047 63 3
RKSM 620 VA4571	200	0.75	3,050	118	100	150	—	1.0	0.55	183.000	6047 64 1
RKSM 630 VA4571	300	0.75	3,050	178	200	250	100	1.0	0.55	239.000	6047 65 7
RKSM 640 VA4571	400	0.9	3,050	238	300	350	200	1.35	0.8	331.300	6047 69 2
RKSM 650 VA4571	500	0.9	3,050	298	400	450	300	1.35	0.8	392.300	6047 72 2
RKSM 660 VA4571	600	0.9	3,050	358	450	550	400	1.35	0.8	453.330	6047 73 8

V4A Stainless steel, 1.4571 Stained /m

RKSM 60 = efficient magic cable tray system with 60 mm side height.

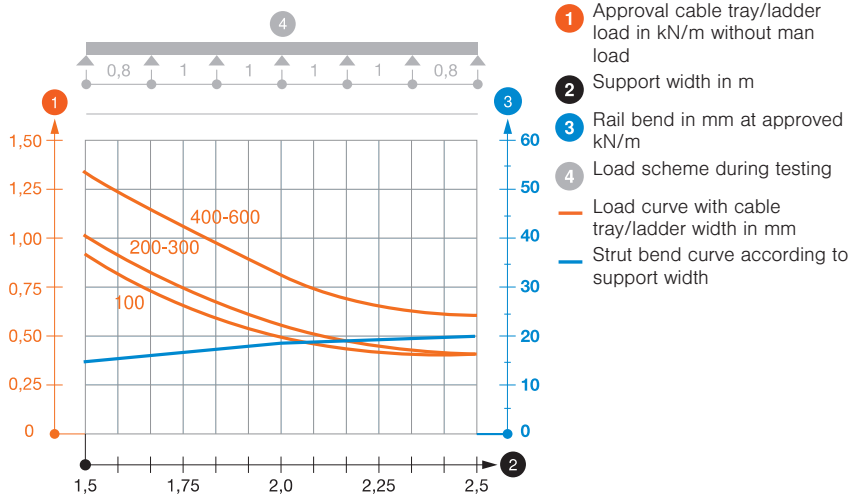
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Cable tray with quick connection system, including all the relevant connection components for time-saving and economic installation, with beaded straight base perforation, 7 x 20 mm, for bracket mounting and, from the width 200 mm, with 7 x 32 mm transverse beading for cable ventilation and simplified mounting. With 11 mm perforation for direct threaded rod suspension. Continuous side perforation, 7 x 20 mm, as connector perforation.

The stock length is 3,050 mm, the usable length when combined is 3,000 mm.

The continuous equipotential bonding is guaranteed without additional components.

Load diagram, cable tray, type RKSM 60



V4A components, material no. 1.4571



Cable tray DKS

Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm²	Appr. load:				Weight kg/100 m	Item No.
					1.5 m kN/m	1.75 m kN/m	2.0 m kN/m	2.5 m kN/m		
DKS 610 VA4571	100	0.8	3,000	58	1.0	0.8	0.5	0.35	157.000	6085 66 8
DKS 620 VA4571	200	0.8	3,000	118	1.0	0.8	0.5	0.5	213.000	6085 67 2
DKS 630 VA4571	300	1	3,000	178	1.0	0.8	0.5	0.35	264.000	6085 67 3
DKS 640 VA4571	400	1	3,000	238	1.1	0.9	0.75	0.45	294.000	6085 67 5
DKS 650 VA4571	500	1	3,000	298	1.1	0.9	0.75	0.45	350.000	6085 67 7
DKS 660 VA4571	600	1	3,000	358	1.1	0.9	0.75	0.45	437.000	6085 67 9

V4A Stainless steel, 1.4571

/m

DKS 60 = perforated cable tray system with 60 mm side height.

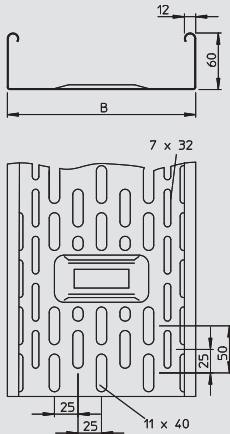
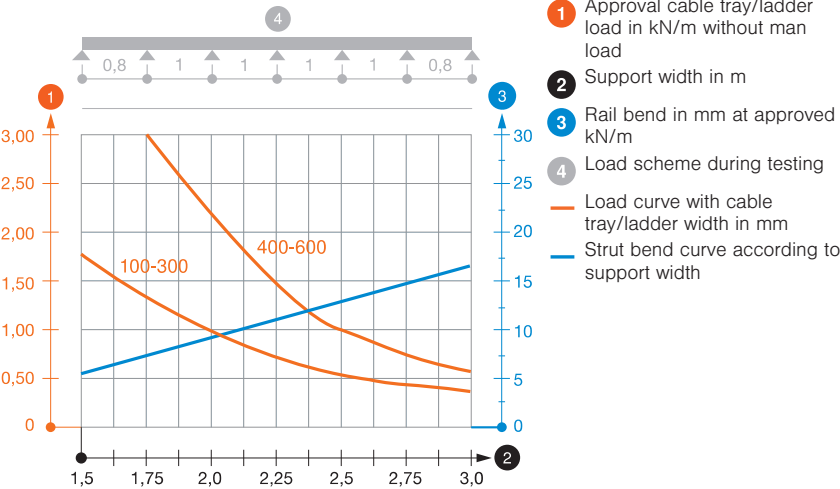
Magnetic shield insulation without cover 20 dB, with cover 50 dB.

Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.

Bottom penetration from width 200 mm.

Connecting parts should be ordered in the appropriate quantity.

Load diagram, cable tray DKS 60 VA



Cable tray SKS

Type	Width mm	Plate thickness mm	Length mm	Useful cross- section cm²	Appr. load:				Weight kg/100 m	Item No.
					1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m		
SKS 610 VA4571	100	1.5	3,000	58	2.65	1.8	1.15	0.5	263.300	6056 75 0
SKS 620 VA4571	200	1.5	3,000	118	2.65	1.8	1.15	0.5	356.700	6056 75 5
SKS 630 VA4571	300	1.5	3,000	178	2.65	1.8	1.15	0.5	466.700	6056 75 7
SKS 640 VA4571	400	1.5	3,000	238	2.65	1.8	1.15	0.5	566.700	6056 75 9
SKS 650 VA4571	500	1.5	3,000	298	2.65	1.8	1.15	0.5	666.700	6056 76 1
SKS 660 VA4571	600	1.5	3,000	358	2.65	1.8	1.15	0.5	766.700	6056 76 3

V4A Stainless steel, 1.4571

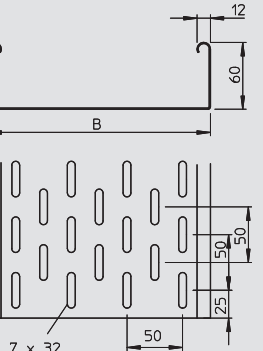
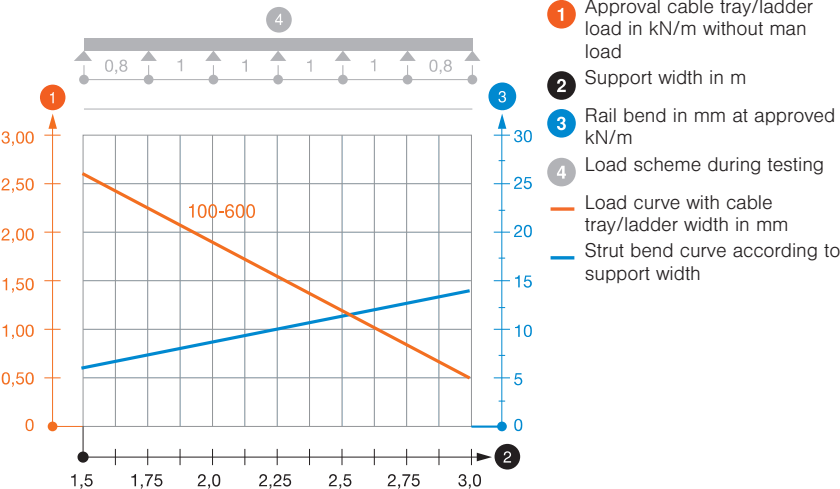
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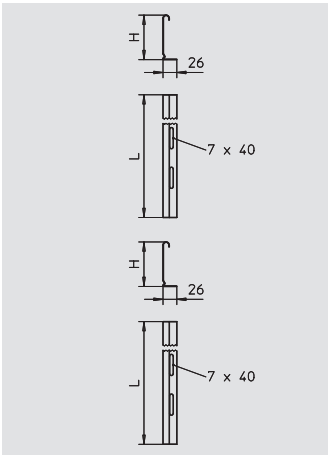
SKS 60 = Heavy-duty cable tray system with 60 mm side height.

Magnetic shield insulation without cover 20 dB, with cover 50 dB.

The cable tray, type SKS, should also be used for function maintenance. 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.

Load diagram, cable tray SKS 60 VA





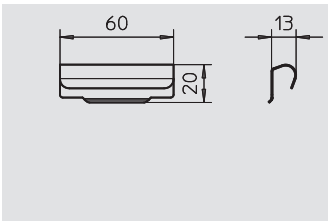
Barrier strip

Type	Dimen- sion H mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
TSG 45 VA4571	45	3,000	45	0.000	6062 02 8
V4A Stainless steel, 1.4571					/m

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

Type	Dimen- sion H mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
TSG 60 VA4571	60	3,000	45	0.000	6062 08 6
V4A Stainless steel, 1.4571					/m

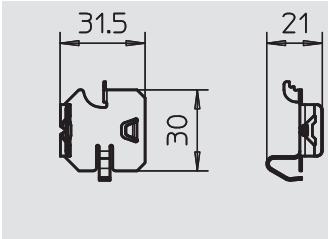
Barrier strip for separation of cables of different voltages or functions.



Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1.000	6067 97 0
V2A Stainless steel, 1.4310			/pc.

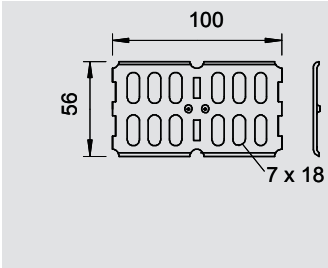
Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.



Clamping piece for barrier strip fastening

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KR VA4310	30	0.580	6062 28 0
V2A Stainless steel, 1.4310			/100 pc.

Clamping piece for screwless fastening of barrier strips in the cable tray types RKSM, MKS and SKS.

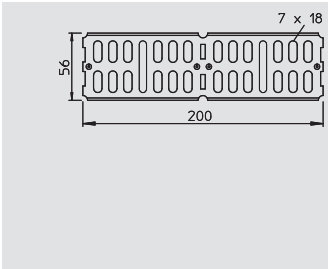
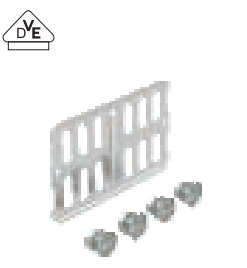


Straight connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RLVK 60 VA4571	60	10	9.000	6067 67 5
V4A Stainless steel, 1.4571			/pc.	

Straight connector for connections of cable trays, fittings and barrier strips with a side height of 60 mm.

Including appropriate fastening material.

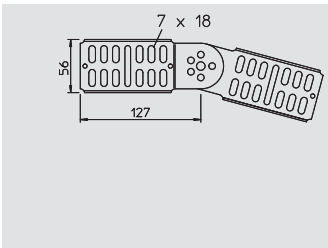
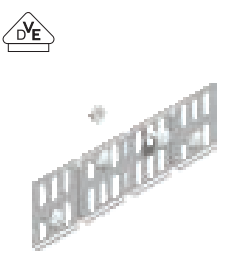


Straight and angle connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RWVL 60 VA4571	60	10	17.500	6067 66 4
V4A Stainless steel, 1.4571			/pc.	

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

Including appropriate fastening material.



Articulated connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
RGV 60 VA4571	60	10	25.000	7082 26 5
V4A Stainless steel, 1.4571			/pc.	

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



V4A components, material no. 1.4571

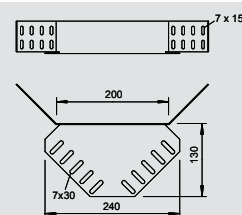


Corner connector

Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
REV 60 VA4571	60	5	33.400	6068 05 4

V4A Stainless steel, 1.4571

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

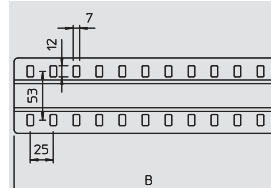


Joint plate

Type	Width mm	Quantity of bolts pc.	Pack. pcs	Weight kg/100 pcs.	Item No.
SSLB 100 VA4571	85	2	20	7.700	7070 39 0
SSLB 200 VA4571	185	2	20	16.700	7070 39 2
SSLB 300 VA4571	285	3	20	25.700	7070 39 4
SSLB 400 VA4571	385	4	20	34.700	7070 39 6
SSLB 500 VA4571	485	5	20	43.700	7070 39 8
SSLB 600 VA4571	585	6	20	52.700	7070 40 0

V4A Stainless steel, 1.4571

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

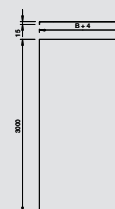


Cover, unperforated

Type	Width mm	Plate thickness mm	Length mm	Weight kg/100 m	Item No.
DRLU 100 VA4571	100	1	3,000	99.000	6052 99 1
DRLU 200 VA4571	200	1	3,000	178.000	6052 99 3
DRLU 300 VA4571	300	1	3,000	256.000	6052 99 4
DRLU 400 VA4571	400	1	3,000	334.400	6052 99 5
DRLU 500 VA4571	500	1.25	3,000	516.100	6052 99 6
DRLU 600 VA4571	600	1.25	3,000	614.300	6052 99 8

V4A Stainless steel, 1.4571

Cover for cable trays and mesh cable trays.
Take appropriate constructive protection measures if there are high wind speeds.
Transverse bead from 500 mm width.

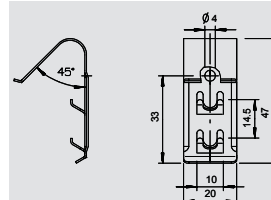


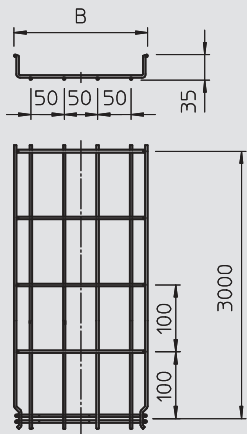
Cover clamp, universal

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DKU 60 VA4310	60	0.650	6065 60 0
DKU 120 VA4310	120	0.650	6065 61 0

V2A Stainless steel, 1.4310

Cover clamp for universal fastening of covers on cable trays, mesh cable trays and AZ small ducts.
Depending on the tray width, 4–6 cover clamps are required for secure fastening of a 3 m cover.





Mesh cable tray GR-Magic®



Type	Width mm	Wire Ø mm	Length mm	Useful cross- section cm²	Appr. load:			Weight kg/100 m	Item No.
					1.0 m kN/m	1.5 m kN/m	2.0 m kN/m		
GRM 35 100VA4401	100	3.9	3,000	35	0.25	0.11	0.1	49.000	6000 08 7
GRM 35 150VA4401	150	3.9	3,000	52,5	0.25	0.11	0.1	62.600	6000 08 9
GRM 35 200VA4401	200	3.9	3,000	70	0.3	0.14	0.1	76.300	6000 09 0
GRM 35 300VA4401	300	4.8	3,000	105	0.75	0.22	0.15	157.900	6000 09 1

V4A Stainless steel, 1.4401

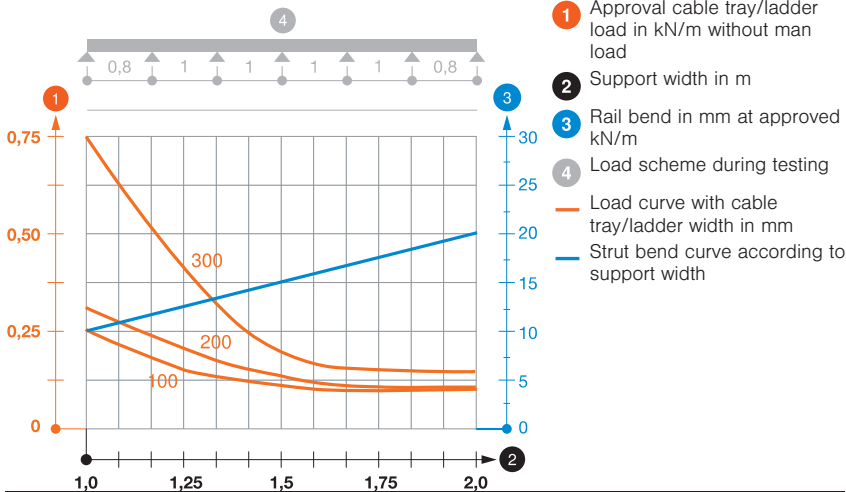
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Mesh cable tray with shaped connector of side height 35 mm.

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

No additional connection components are required for the mesh cable tray, it is simply inter-locked. The grid width is 50 x 100 mm.

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



Type	Width mm	Wire Ø mm	Length mm	Useful cross- section cm²	Appr. load:			Weight kg/100 m	Item No.
					1.0 m kN/m	1.5 m kN/m	2.0 m kN/m		
GRM 55 50VA4401	50	3.9	3,000	16	0.25	0.12	0.08	67.000	6001 08 7
GRM 55 100VA4401	100	3.9	3,000	40	0.25	0.12	0.08	75.000	6001 08 8
GRM 55 150VA4401	150	3.9	3,000	63	0.25	0.12	0.08	88.000	6001 09 0
GRM 55 200VA4401	200	3.9	3,000	87	0.25	0.12	0.08	97.000	6001 09 1
GRM 55 300VA4401	300	4.8	3,000	129	0.6	0.28	0.25	200.000	6001 09 3
GRM 55 400VA4401	400	4.8	3,000	175	0.6	0.28	0.25	243.000	6001 09 5
GRM 55 500VA4401	500	4.8	3,000	220	0.75	0.38	0.25	287.000	6001 09 7
GRM 55 600VA4401	600	4.8	3,000	265	0.75	0.38	0.25	331.000	6001 09 9

V4A Stainless steel, 1.4401

Stained

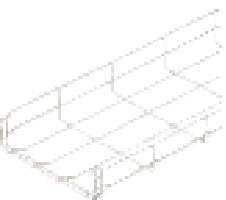
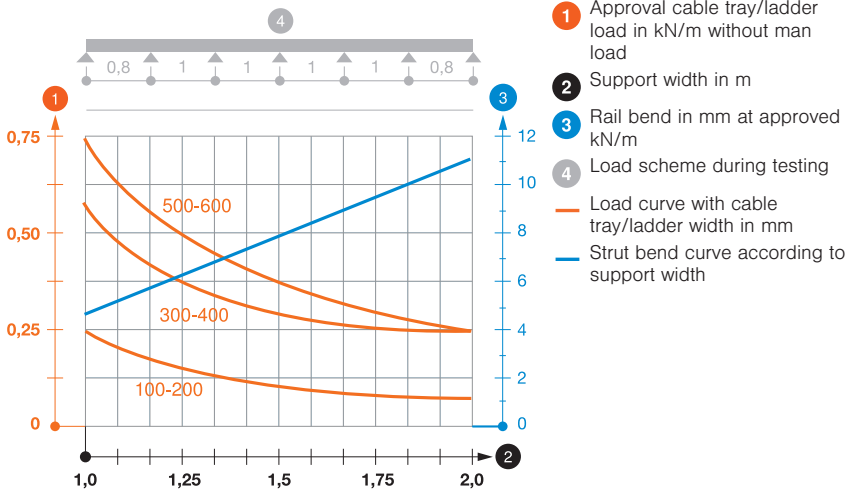
/m

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

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

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

Load diagram, mesh cable tray GRM 55 VA



V4A components, material no. 1.4571



Barrier strip

Type	Dimension H mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 30 VA4571	30	3,000	45	0.000	6062 05 4

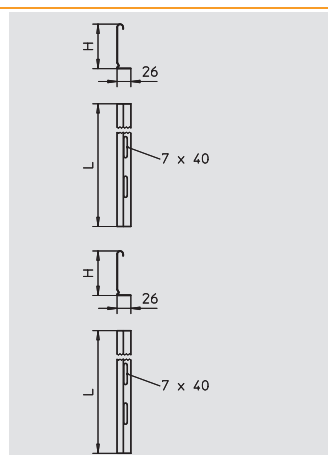
V4A Stainless steel, 1.4571

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

Type	Dimension H mm	Dimension L mm	Pack. m	Weight kg/100 m	Item No.
TSG 60 VA4571	60	3,000	45	0.000	6062 08 6

V4A Stainless steel, 1.4571

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

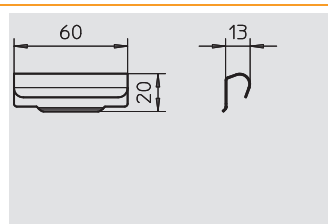


Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1.000	6067 97 0

V2A Stainless steel, 1.4310

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

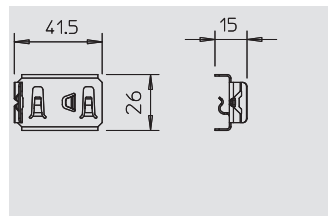


Clamping piece for barrier strip fastening

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS GR VA4310	30	0.830	6062 28 2

V2A Stainless steel, 1.4310

Clamping piece for fastening barrier strips in mesh cable trays.

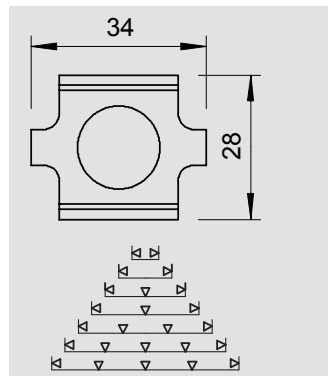


Joint connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GSV 34 VA4401	10	3.000	6016 64 8

V4A Stainless steel, 1.4401

Screwed version of joint connector for mesh cable trays.
Including FRS M6 x 20 bolt with nut-and-washer assembly.

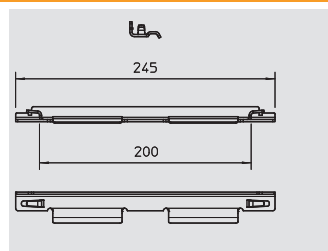


Quick connector

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GRV 245 VA4404	245	50	13.500	6016 68 8

V4A Stainless steel, 1.4404

Long mesh cable tray connection for screwless straight connection of mesh cable trays.
Two straight connectors, type GRV 245, are used for each connection point.

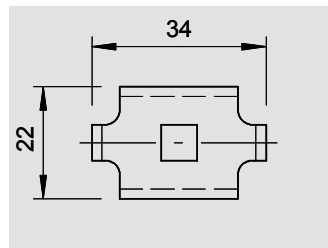


Clamping piece

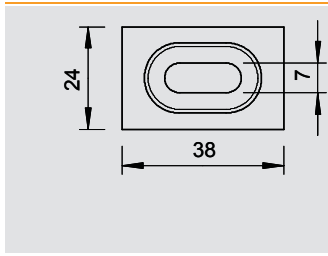
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GKS 34 VA4401 SP	10	2.000	6016 85 9

V4A Stainless steel, 1.4401

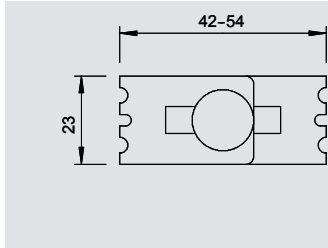
Clamp for fastening mesh cable trays to wall or support brackets.
Including FRS M6 x 20 bolt with nut-and-washer assembly.



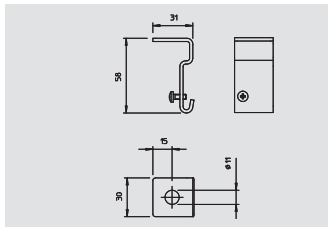
V4A components, material no. 1.4571



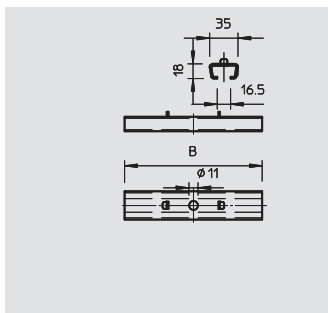
Type	Clamping piece		
	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
GKT 38 VA4401 SP	10	2.200	6017 09 2
V4A Stainless steel, 1.4401			/pc.
Clamping piece for fastening barrier strips in mesh cable trays. Including FRS M6 x 20 bolt with nut-and-washer assembly.			



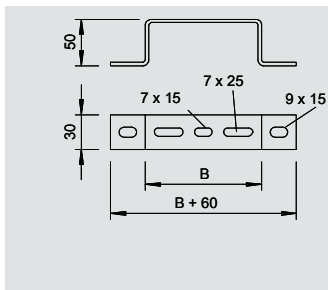
Type	Corner connector		
	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
GEV 36 VA4401 SP	10	3.000	6016 76 4
V4A Stainless steel, 1.4401			/pc.
Corner connector for the creation of mesh cable tray bends. Including FRS M6 x 12 bolt with nut-and-washer assembly.			



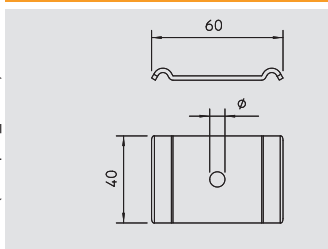
Type	For threaded rod	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
SH M10 VA4401	M10	20	5.500	6015 34 0
V4A Stainless steel, 1.4401				/pc.
Side holder for suspension of mesh cable trays.				



Type	Dimension B	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
GMS 170 VA4401	170	25	20.000	6015 41 8
GMS 270 VA4401	270	25	32.000	6015 41 9
GMS 370 VA4401	370	25	43.000	6015 42 0
GMS 470 VA4401	470	10	55.000	6015 42 1
GMS 570 VA4401	570	10	67.000	6015 42 2
V4A Stainless steel, 1.4401				/pc.
Central suspension including clamp for mesh cable tray suspensions.				



Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
DBL 50 100VA4401	100	20	15.800	6015 63 0
DBL 50 200VA4401	200	20	22.800	6015 63 2
DBL 50 300VA4401	300	20	38.000	6015 63 3
DBL 50 400VA4401	400	20	47.400	6015 63 4
V4A Stainless steel, 1.4401				/pc.
Stand-off bracket for cable trays and mesh cable trays.				



Type	Hole Ø	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
GKS 50 VA4404	11	50	4.000	6015 28 0
V4A Stainless steel, 1.4404				/pc.
Clamp for fastening mesh cable trays on the ground or on stand off brackets of type DBL. Use on mesh cable trays with 50 x 100 mm grid only.				



V4A components, material no. 1.4571



Cable ladder LG 60

Type	Width mm	Rail thickness mm	Length mm	Useful cross- section cm ²	Appr. load:				Weight kg/100 m	Item No.
					2.0 m	2.5 m	3.0 m	4.0 m		
LG 620 VS VA4571	200	1.5	6,000	98	2.0	1.5	1.15	0.45	273.800	6101 20 0
LG 630 VS VA4571	300	1.5	6,000	148	2.0	1.5	1.15	0.45	298.000	6101 20 8
LG 640 VS VA4571	400	1.5	6,000	198	2.0	1.5	1.15	0.45	322.200	6101 21 6
LG 650 VS VA4571	500	1.5	6,000	248	2.0	1.5	1.15	0.45	346.300	6101 22 3
LG 660 VS VA4571	600	1.5	6,000	298	2.0	1.5	1.15	0.45	378.300	6101 23 2

V4A Stainless steel, 1.4571

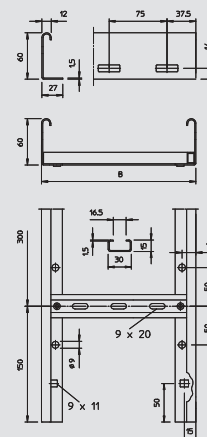
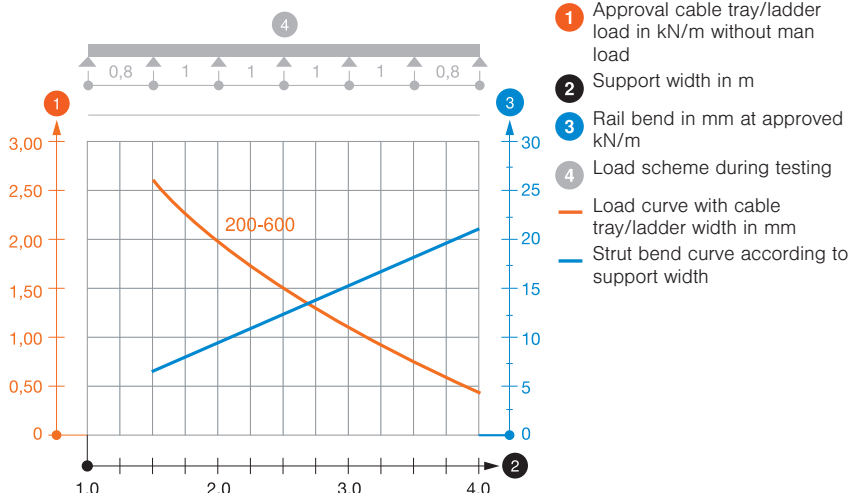
/m

Cable ladder with perforated side rail of side height 60 mm with riveted C profile rungs, open in an upwards direction (VS version).

Magnetic shield insulation without cover 10 dB, with cover 15 dB.

The cable ladder is shipped folded up.

Load diagram, LG 60 VS



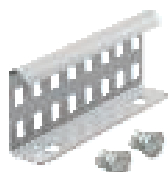
Protective cap

Type	Colour	Pack. pair	Weight kg/100 pairs	Item No.
SKH 60 OR	Pastel orange	40	1.100	6222 53 7

PE Polyethylene

/pair

Protective cap to cover cable ladder ends of side height 60 mm.



Straight connector

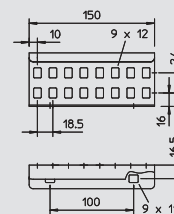
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LVG 60 VA4571	60	20	22.000	6208 83 5

V4A Stainless steel, 1.4571

/pc.

Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.



Angle connector

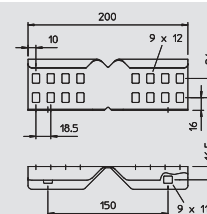
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LWVG 60 VA4571	60	20	22.000	6208 89 1

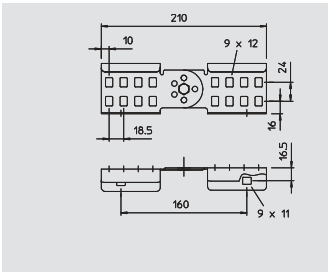
V4A Stainless steel, 1.4571

/pc.

Angle connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.





Articulated connector

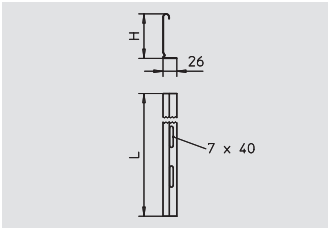
Type	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
LGVG 60 VA4571	60	10	29.000	6208 93 2

V4A Stainless steel, 1.4571

/pc.

Adjustable connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation. Angle can be adjusted vertically.

The bolt fastening ensures the continuity of the equipotential bonding.



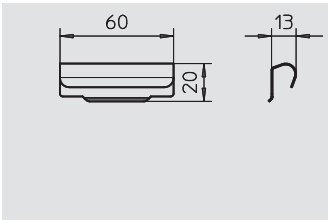
Barrier strip

Type	Dimen- sion H mm	Dimen- sion L mm	Pack. m	Weight kg/100 m	Item No.
TSG 45 VA4571	45	3,000	45	0.000	6062 02 8

V4A Stainless steel, 1.4571

/m

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



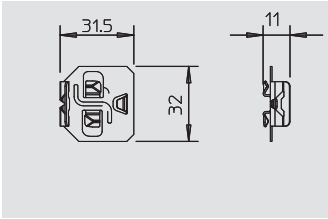
Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
TSGV VA4310	10	1.000	6067 97 0

V2A Stainless steel, 1.4310

/pc.

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



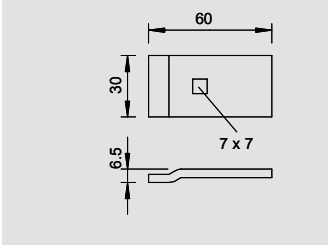
Clamping piece for barrier strip fastening

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS KL VA4310	30	0.512	6062 28 4

V2A Stainless steel, 1.4310

/100 pc.

Clamping piece for screwless fastening of barrier strips in cable ladders.



Clamping piece

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
LKS60 4 VA4571	50	7.000	6221 15 7

V4A Stainless steel, 1.4571

/pc.

Clamp for fastening cable ladders.

Fastening on brackets, type AW..., using the enclosed truss-head bolt FRS M6x20.





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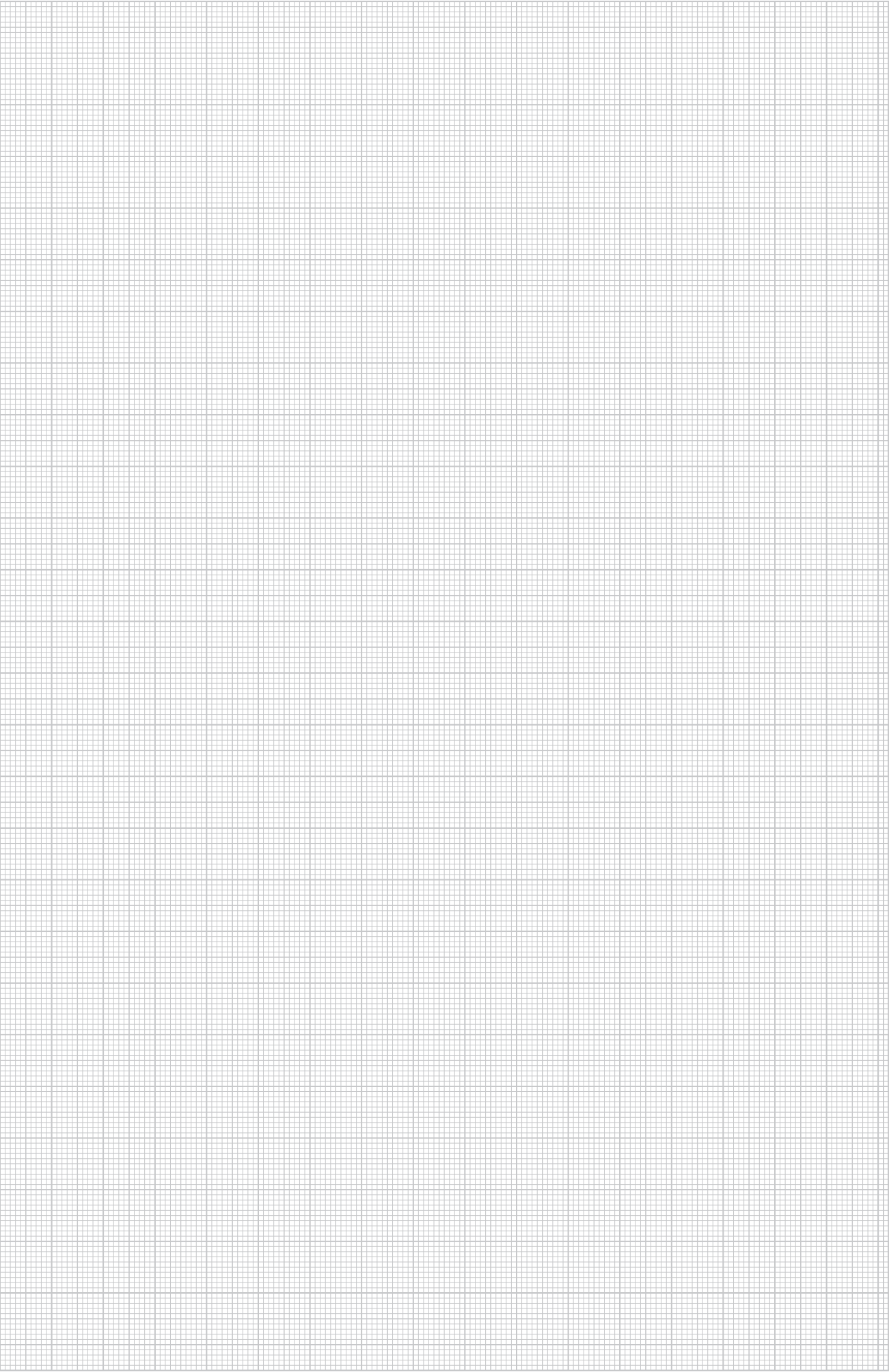
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Numeric directory

Structure of the EAN number: Country code **40**

Manufacturer code **1219** (for articles beginning with **0: 1010**)

Individual EAN-C **5647589**

EAN-C.	Art. no.	Price	Page	EAN-C.	Art. no.	Price	Page	EAN-C.	Art. no.	Price	Page	EAN-C.	Art. no.	Price	Page
5038290	1104 26 8	/100 pc.	179	5668114	1124 50 2	/100 pc.	179	5063377	1156 13 6	/100 pc.	312	5070870	1169 34 3	/100 pc.	314
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5836353	1104 29 2		179	5668138	1124 56 1		180	5063490	1156 15 2		312	5070993	1169 46 7		314
5038412	1104 30 6		179					5063551	1156 16 0		312	5071051	1169 52 1		314
5036678	1104 31 0		179	5052999	1140 01 9		189					5071112	1169 58 0		314
5036739	1104 31 5		179	5053057	1140 21 3		189	5063612	1159 51 8		374	5071174	1169 64 5		314
5036791	1104 32 0		179					5063674	1159 52 6		374	5071235	1169 69 6		314
5036852	1104 32 5		179	5053231	1141 10 4		274	5063735	1159 53 4		374	5071297	1169 76 9		314
5038474	1104 34 9		179					5063797	1159 54 2		374	5071358	1169 82 3		314
5038535	1104 35 7		179	5119920	1143 12 3		274	5063858	1159 55 0		374	5071419	1169 90 4		314
5038597	1104 37 3		179					5063919	1159 56 9		374				
5052814	1104 39 1		179	5053712	1144 10 3		189	5063971	1159 57 7		374	5071532	1170 12 0		314
5038658	1104 40 3		179	5053774	1144 11 1		189	5064039	1159 58 5		374	5071594	1170 16 3		314
5486190	1104 41 1		179	5053835	1144 13 8		189	5064091	1159 59 3		374	5071655	1170 22 8		314
5051732	1104 42 7		179					5064152	1159 60 7		374	5071716	1170 28 7		314
5052630	1104 43 5		179	5054559	1146 50 5		189	5064213	1159 61 5		374	5071778	1170 34 1		314
		/100 m		5054610	1146 51 3		189	5064275	1159 62 3		374	5071839	1170 40 6		314
5052692	1104 44 5		179	5054672	1146 52 1		189					5071891	1170 46 5		314
5038719	1104 45 4		179	5084129	1146 55 6		345	5064459	1160 12 5		310	5071952	1170 51 1		314
5694458	1104 49 7		179	5084150	1146 55 8		345	5064510	1160 16 8		310				
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		/100 pc.		5084167	1146 56 2		345	5064633	1160 28 1		310	5072799	1175 16 5		312
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5053897	1110 00 2		178	5055334	1146 81 5		189	5065418	1161 16 4		311				
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5043157	1112 02 3		178					5065531	1161 28 8		311	5073697	1176 16 1		313
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5059417	1119 68 4		178	5058458	1153 43 9		190	5067399	1163 12 4		310				
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		/100 m						5067696	1163 39 6		310	5074830	1178 54 7		374
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5047711	1119 72 9		345	5059776	1154 42 7		190	5067818	1163 52 3		310	5074953	1178 56 3		374
				5059837	1154 43 5		190	5067870	1163 58 2		310	5075011	1178 57 1		374
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		/100 pc.				/100 pc.				/100 pc.				/m	
5076155	1180 82 7		313	5255857	3156 49 4		186	5307037	3462 88 9		323	5624820	6000 06 9		244
5076216	1180 90 8		313	5255970	3156 51 6		186					5037200	6000 07 1		244
				5256038	3156 52 4		186	5307150	3463 06 0		323	5037231	6000 07 2		244
5076339	1181 12 2		313									5037248	6000 07 3		244
5076391	1181 16 5		313	5256212	3158 20 9		186	5437376	3488 29 2		193	5037255	6000 07 5		244
5076452	1181 21 1		313	5256274	3158 24 1		186	5437383	3488 29 8		193	5360759	6000 08 7		391
5076513	1181 28 9		313	5256335	3158 30 6		186	5714316	3488 30 6		193	5360766	6000 08 9		391
5076575	1181 34 3		313	5256571	3158 62 4		187	5437390	3488 30 8		193	5360773	6000 09 0		391
5076636	1181 40 8		313	5256632	3158 63 2		187	5437406	3488 31 2		193	5360780	6000 09 1		391
5076698	1181 46 7		313	5256694	3158 64 0		187			/pc.					
5076759	1181 52 1		313					5319276	3488 40 3		193	6317233	6001 04 0		245
5076810	1181 58 0		313	5256816	3160 20 3		186			/100 pc.		6317356	6001 04 4		245
				5256939	3160 30 0		186	5437437	3488 45 2		193	6317479	6001 04 7		245
5077299	1183 20 6		311	5257059	3160 40 8		186	5714255	3488 46 2		193	6323531	6001 05 0		245
5077350	1183 21 4		311	5257110	3160 50 5		186	5437444	3488 46 4		193	6323838	6001 05 3		245
5077411	1183 22 2		311	5257172	3160 60 2		186	5437451	3488 46 8		193	6324132	6001 05 6		245
5077473	1183 23 0		311	5257233	3160 73 4		187	5437468	3488 51 5		193	6324439	6001 05 9		245
5077534	1183 24 9		311	5257295	3160 74 2		187			/pc.		5430933	6001 07 0		357
5077596	1183 25 7		311	5257356	3160 75 0		187	5437499	3488 52 5		193	6101290	6001 07 2		357
5077657	1183 26 5		311	5505631	3160 79 3		154	5318910	3488 52 7		193	6101351	6001 07 4		357
5077718	1183 27 3		311									6101412	6001 07 6		357
5077770	1183 28 1		311	5257592	3162 30 3		186			/100 pc.		6101771	6001 07 8		357
5077831	1183 30 3		311	5257714	3162 40 0		186	5454038	3492 03 6		191	6102198	6001 08 0		357
5435310	1183 31 1		311	5257776	3162 50 8		186	5454090	3492 06 0		191	6102259	6001 08 2		357
5435372	1183 33 8		311					5454151	3492 09 5		191	6102310	6001 08 5		357
5435495	1183 38 9		312	5258070	3163 09 1		187	5025177	3492 14 5		347	5431046	6001 08 7		391
5435556	1183 39 7		312	5258131	3163 11 3		187	5025184	3492 15 0		347	5166016	6001 08 8		391
5435617	1183 40 0		312	5258254	3163 15 6		187			/pc.		5166023	6001 09 0		391
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5435853	1183 44 3		312	5297673	3397 06 8		346	5454212	3492 62 1		191	5166122	6001 09 7		391
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5081494	1195 22 0		314	5298038	3400 05 0		188	5963981	3498 12 3		192	5045281	6001 42 1		245
5081555	1195 27 1		314	5298090	3400 06 9		188	5964049	3498 15 8		192	6815050	6001 42 4		245
5081616	1195 34 4		314	5298151	3400 08 5		188	5964100	3498 20 4		192	6815111	6001 42 8		245
5081678	1195 40 9		314	5298212	3400 10 7		188	5964162	3498 26 3		192	6815173	6001 43 2		245
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5081913	1195 64 6		314	5298519	3400 36 0		189	5706069	3498 48 7		347	6078974	6001 44 4		245
5081975	1195 70 0		314	5298571	3400 37 9		189	5888437	3498 50 6		191	6858613	6001 44 6		245
								5706076	3498 50 9		347	5045274	6001 44 7		245
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5137597	1465 76 7		181	5300557	3402 31 2		346	5888550	3498 58 1		191	6858736	6001 45 0		245
5137658	1465 77 5		181	5300618	3402 32 0		346	5049500	3498 59 7		191	6858798	6001 45 2		245
5137719	1465 79 1		181	5300670	3402 33 9		346	5888611	3498 65 4		191	6858859	6001 45 4		245
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5138372	1470 17 5		323	5867975	3403 04 1		188					6352937	6001 97 1		247
5138433	1470 26 4		323	5868033	3403 07 6		188	5386056	5043 10 7		251	6624799	6001 99 8		247
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5138792	1471 26 0		323	5868330	3403 16 5		188			/100 m		6001811	6002 23 4		247
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5253457	3141 30 6		140					5624813	6000 06 0		244	5456230	6002 37 0		249
5023456	3141 31 0		252	5513315	3453 82 0		140	5037149	6000 06 2		244	5456247	6002 37 2		249
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Numeric directory

Structure of the EAN number: Country code **40**

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5456292	6002 38 2		249	6007158	6008 05 4		308	6941056	6015 40 6		252	6013692	6017 32 0		257
5456308	6002 38 4		249	6007219	6008 06 2		308	6941117	6015 40 8		252	6013753	6017 33 9		363
		/m		6007271	6008 07 0		308	6952090	6015 41 8		252	6013814	6017 34 7		258
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6020393	6002 40 4		248	6007394	6008 09 7		308	6952212	6015 42 0		252	6326112	6017 37 1		251
6020515	6002 40 6		248	6007455	6008 10 0		308	6952274	6015 42 1		252			/m	
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6020751	6002 41 0		248	6007578	6008 12 7		308	6649990	6015 42 5		253	6013999	6017 43 6		256
6020997	6002 41 5		248	6629718	6008 22 4		307	6650057	6015 43 3		253	6014057	6017 44 4		256
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6021239	6002 43 1		248	6007639	6008 24 0		307	6746170	6015 51 4		142	6014118	6017 46 0		256
6021352	6002 43 3		248	6007691	6008 25 9		307	6746231	6015 52 2		142			/pc.	
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6022076	6002 44 5		248	6007998	6008 30 5		307	6785414	6015 56 5		142	5164647	6017 70 5		253
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5149637	6002 45 7		358	6008117	6008 32 1		307	6785537	6015 58 1		142	6014231	6018 30 0		170
5149644	6002 46 0		358					6785599	6015 60 3		142	6014293	6018 37 8		156
5149675	6002 46 3		358			/m		6785650	6015 61 1		142	6014354	6018 40 8		341
5149682	6002 46 6		358	6146116	6010 46 6		304	5239208	6015 61 4		142	6446896	6018 50 5		153
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5390848	6047 41 7	/m	198	6039012	6052 71 5	/m	229	6060191	6056 10 5	/m	205	6062713	6061 67 2	/m	221
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60388															

Numeric directory

Structure of the EAN number: Country code **40**

Manufacturer code **1219** (for articles beginning with **0: 1010**)

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6517879	6065 51 1	/pc.	229	5079057	6068 77 7	/pc.	238	6070459	6085 60 1	/m	351	6808939	6098 50 9	/m	283
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5668015	6222 55 3	/pair	271	6977482	6231 70 5	/pc.	292	5037309	6311 21 0	/m	371	6186914	6339 13 1	/pc.	155
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6500239	7005 33 4		214	5711773	7007 32 6		225	6228317	7075 50 2		214	6146772	7084 75 7		228
6216611	7005 34 2		214	5711780	7007 33 0		225	6228379	7075 59 6		214	6146833	7084 76 5		228
6216673	7005 36 9		214	5711810	7007 35 0		226					6146895	7084 77 3		227
6216734	7005 38 5		214	5711827	7007 35 4		226	6228430	7076 09 6		220	6146956	7084 78 1		228
6216796	7005 40 7		214	5711834	7007 35 8		226	6228492	7076 20 7		220	5012245	7084 87 0		227
6216857	7005 42 3		214	5711841	7007 36 2		226	6228553	7076 30 4		220				
6216918	7005 46 6		220	5711872	7007 36 6		226	6228614	7076 40 1		220	5163268	7085 10 8		228
6216970	7005 48 2		220	5711889	7007 37 0		226	6228676	7076 50 9		220	5163305	7085 11 1		228
6217038	7005 50 4		220					6228737	7076 60 6		220	5286790	7085 11 2		228
6217090	7005 52 0		220	6990689	7065 07 8		201					5163312	7085 11 4		227
6217151	7005 54 7		220	6990740	7065 11 6		201	6228799	7077 10 6		226	5166320	7085 13 3		354
6217212	7005 56 3		220	6926893	7065 16 7		201	6228850	7077 20 3		226				
6217274	7005 62 8		226	6990801	7065 21 3		201	6228911	7077 30 0		226				
6217335	7005 64 4		226	6990863	7065 31 0		201	6228973	7077 40 8		226			/m	
6217397	7005 66 0		226					6229031	7077 50 5		226	6582136	7103 61 1		181
6217458	7005 68 7		226	6990924	7066 11 2		211	6229093	7077 55 6		226	6468911	7103 64 3		181
6217519	7005 70 9		226	6901579	7066 15 8		211								
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6217991	7006 36 5		214					6229635	7079 50 8		214	6240012	7105 96 7		181
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6218110	7006 41 1		214	6991167	7067 21 6		218								
6218172	7006 44 6		214	6991228	7067 31 3		218	6229758	7080 10 7		219			/pc.	
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6218295	7006 48 9		219	6225255	7067 49 6		218	6229871	7080 30 1		219	6308170	7106 11 0		211
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6218530	7006 57 8		219	6991341	7068 21 2		223					6024735	7106 12 6		211
6218592	7006 62 4		226	6991402	7068 32 8		223	6230112	7081 10 3		226	6034697	7106 13 0		211
6218653	7006 64 0		226	6225552	7068 40 9		224	6230174	7081 20 0		226				
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6218837	7006 70 5		226	6225675	7068 55 7		224	6230297	7081 40 5		226	6240197	7107 04 8		201
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5047339	7007 00 9		214	6094820	7070 20 9		227					6240739	7107 33 1		217
5047346	7007 01 3		214	6094882	7070 21 3		227	6230471	7082 00 2		200	6240791	7107 36 6		217
5047377	7007 01 7		214	6094943	7070 21 7		227	6230532	7082 01 0		210	6240852	7107 38 2		217
5047384	7007 02 1		214	6095001	7070 22 1		227	6230594	7082 02 9		217	6240913	7107 40 4		217
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5047452	7007 05 9		214	6095247	7070 30 6		227	6230839	7082 25 8		352	6241217	7107 53 6		223
5047469	7007 06 3		214	6095308	7070 31 0		227	6080113	7082 26 5		389	6241279	7107 55 2		223
5047490	7007 06 7		214	6095360	7070 31 4		227	6230891	7082 32 0		217	6241330	7107 56 0		223
5047506	7007 07 1		214	6095421	7070 31 8		227	6230952	7082 43 6		223				
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Numeric directory

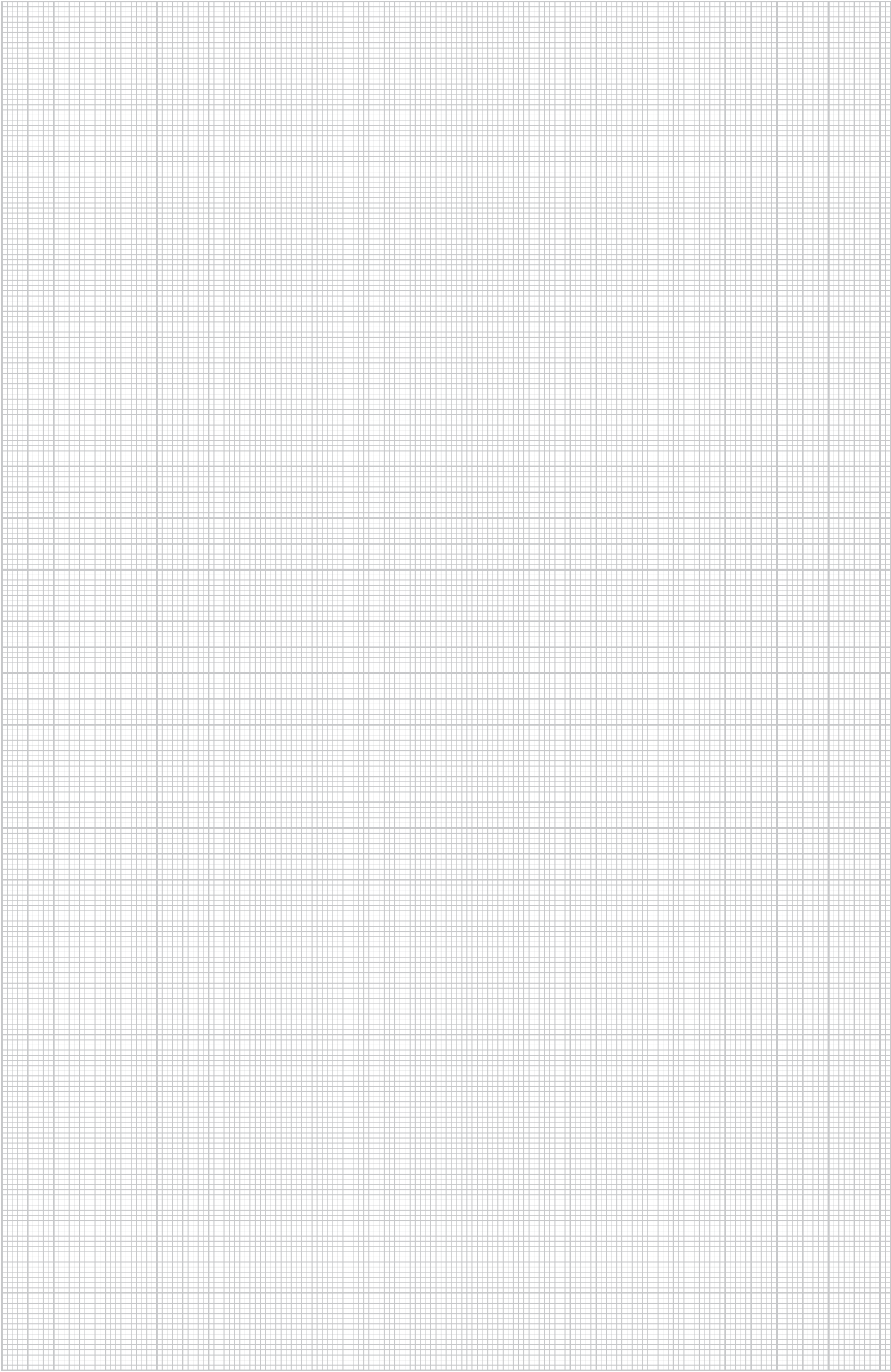
Structure of the EAN number: Country code **40**

Manufacturer code **1219** (for articles beginning with **0: 1010**)

Individual EAN-C **5647589**

EAN-C.	Art. no.	Price	Page	EAN-C.	Art. no.	Price	Page	EAN-C.	Art. no.	Price	Page	EAN-C.	Art. no.	Price	Page
		/pc.				/pc.				/pc.				/pc.	
6241873	7109 40 7		211	6813674	7123 31 0		224	6250998	7129 71 8		231	6252671	7131 82 8		230
6241934	7109 50 4		211	6247097	7123 39 6		224	6251056	7129 72 6		231	6027125	7131 83 6		230
6241996	7109 60 1		211	6247158	7123 50 7		224	6251117	7129 73 4		231	6252732	7131 84 4		230
				6247219	7123 55 8		224					6252794	7131 86 0		230
6242054	7109 81 4		352					6251179	7130 50 3		230	6252855	7131 87 9		230
6242115	7109 83 0		352	6813858	7124 07 0		201	6251230	7130 51 1		230	6252916	7131 88 7		230
6242177	7109 85 7		352	6813919	7124 12 0		201	6015436	7130 53 8		230	6252978	7131 89 5		230
6242238	7109 87 3		352	6813971	7124 23 6		201	6251292	7130 54 6		230	6253036	7131 90 9		230
6242290	7109 90 3		352	6814039	7124 32 5		201	6251353	7130 56 2		230				
6242351	7109 93 8		352					6251414	7130 58 9		231	6820696	7133 10 7		352
				6814091	7125 10 0		212	6251476	7130 60 0		231	6820757	7133 12 0		352
				6901753	7125 18 9		212	6251537	7130 61 9		231	6820818	7133 14 2		352
6242412	7110 10 3		217	6814152	7125 22 0		212	6251599	7130 62 7		231	6253630	7133 23 5		353
6242474	7110 20 0		217	6814336	7125 30 5		212	5079187	7130 74 1		240	6253692	7133 24 3		353
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6242597	7110 40 5		217	6247752	7125 52 6		212	5079200	7130 74 5		240	6253814	7133 90 1		355
6242658	7110 50 2		217	6247813	7125 58 5		212	5079231	7130 74 7		240	6253876	7133 92 8		355
6242719	7110 61 8		217					5079248	7130 74 9		240	6253937	7133 93 6		355
				6814510	7126 12 7		218	5079255	7130 75 1		240	6253999	7133 94 4		355
6242771	7111 09 6		223	6814572	7126 21 6		218	5079262	7130 75 3		240	6254057	7133 95 2		355
6242894	7111 20 7		223	6814633	7126 30 1		218	5711896	7130 76 0		233	6254118	7133 97 9		355
6243013	7111 30 4		223	6248056	7126 41 7		218	5711902	7130 76 4		233				
6243136	7111 42 8		223	6248117	7126 51 4		218	5711933	7130 76 8		233	6820870	7134 12 2		353
6243198	7111 50 9		223	6248179	7126 61 1		218	5711940	7130 77 2		233	6820931	7134 13 0		353
6243259	7111 54 1		223					5711957	7130 77 6		233	6820993	7134 13 8		353
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6991709	7113 11 0		213	6814756	7127 22 7		224	5047568	7130 80 5		232	6254774	7134 25 8		353
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6991761	7113 21 8		213	6248414	7127 41 3		224	5047582	7130 81 3		232	6254897	7134 90 8		355
6991822	7113 31 5		213	6248476	7127 49 9		224	5047612	7130 81 7		232	6254958	7134 91 6		355
6243730	7113 40 4		213	6248537	7127 54 5		224	5047629	7130 82 1		232	6255016	7134 92 4		355
6243792	7113 50 1		213					5047636	7130 82 5		232	6255078	7134 93 2		355
6243853	7113 60 9		213	6248599	7128 21 5		231	5047643	7130 82 9		232	6255139	7134 94 0		355
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6812417	7117 20 9		213	6249190	7128 48 7		231					6257232	7136 93 5		356
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6245055	7117 39 6		213	6249312	7128 51 7		231	5712022	7131 00 6		233	6257355	7136 97 8		356
6245116	7117 50 7		213	6249374	7128 52 5		231	5712039	7131 01 0		233				
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				6845651	7128 62 2		232	5712053	7131 03 4		233	6258550	7138 12 1		353
6812714	7119 11 9		225	6249497	7128 63 0		232	5712060	7131 03 8		233	6258611	7138 14 8		353
6812776	7119 21 6		225	6249558	7128 65 7		232	5712077	7131 04 2		233	6258673	7138 15 6		353
6812837	7119 31 3		225	6249619	7128 67 3		232	5712084	7131 04 6		233	6258796	7138 17 2		353
6245772	7119 40 2		225	6249671	7128 70 3		232	5712091	7131 05 0		233				
6245833	7119 49 6		225	6249732	7128 71 1		232	6251711	7131 08 9		232	6259991	7160 04 6		366
6245895	7119 55 0		225	6249794	7128 73 8		232	6290413	7131 09 7		232	6260058	7160 05 4		366
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6812899	7120 06 0		201	6526338	7128 82 7		230	6251834	7131 12 7		232	6260171	7160 08 9		366
6812950	7120 11 7		201	6249916	7128 83 5		230	6251896	7131 14 3		232	6260232	7160 09 7		366
6813018	7120 21 4		201	6249978	7128 85 1		230	6251957	7131 17 8		232				
6813070	7120 31 1		201	6250035	7128 88 6		230	6252015	7131 18 6		232	6261079	7162 02 2		366
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6813193	7121 21 0		212					6027484	7131 31 0		231	6261314	7162 08 1		366
6813254	7121 31 8		212	6250271	7129 30 0		231	6252251	7131 32 1		231				
6246373	7121 40 7		212	6250332	7129 31 9		231	6252312	7131 34 8		231	6261796	7164 01 7		367
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6246496	7121 60 1		212	6250394	7129 33 5		231	6252435	7131 36 4		231	6261918	7164 03 3		367
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6813315	7122 10 9		218	6250516	7129 38 6		232	6252558	7131 38 0		231	6262038	7164 06 8		367
6813377	7122 21 3		218	6250578	7129 40 8		232	5079293	7131 45 0		240				
6813438	7122 31 0		218	6250639	7129 41 6		232	5079309	7131 45 2		240				
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6246793	7122 50 0		219	6250752	7129 61 0		230	5079323	7131 45 6		240	5063230	7195 25 7		303
6246854	7122 60 8		219	6526451	7129 62 9		230	5079354	7131 45 8		240	5063247	7195 26 1		303
				6250813	7129 63 7		230	5079361	7131 46 0		240	5063278	7195 26 5		303
6813490	7123 11 6		224	6250875	7129 65 3		230	5079378	7131 46 2		240	5063285	7195 26 9		303
6813551	7123 21 3		224	6250936	7129 68 8		231	6252619	7131 80 1		230				

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Type listing

Structure of the EAN number: Country code **40**

Manufacturer code **1219** (for articles beginning with **0: 1010**)

Individual EAN-C **5647589**

Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
342 M10X20 G	M10 x 20 20/ St / G	5256816	3160 20 3	/100 pc.	186	1268 SK OR	Pastel orange/ PE	5668114	1124 50 2	/100 pc.	179
342 M10X30 G	M10 x 30 30/ St / G	5256939	3160 30 0		186						
342 M10X40 G	M10 x 40 40/ St / G	5257059	3160 40 8		186	1268 SL 150 FS	35 x 18/ ST / FS	5038474	1104 34 9	/100 m	179
342 M10X50 G	M10 x 50 50/ St / G	5257110	3160 50 5		186						
342 M10X60 G	M10 x 60 60/ St / G	5257172	3160 60 2		186	1268 SL 1M FS	35 x 18/ ST / FS	5052692	1104 44 5	/100 pc.	179
342 M12X30 G	M12 x 30 30/ St / G	5257592	3162 30 3		186	1268 SL 200 FS	35 x 18/ ST / FS	5038535	1104 35 7	/100 m	179
342 M12X40 G	M12 x 40 40/ St / G	5257714	3162 40 0		186						
342 M12X50 G	M12 x 50 50/ St / G	5257776	3162 50 8		186	1268 SL 2M FS	35 x 18/ ST / FS	5038719	1104 45 4	/100 pc.	179
342 M8X20 G	M8 x 20 20/ St / G	5256212	3158 20 9		186	1268 SL 300 FS	35 x 18/ ST / FS	5038597	1104 37 3	/100 pc.	179
342 M8X25 G	M8 x 25 25/ St / G	5256274	3158 24 1		186	1268 SL 400 FS	35 x 18/ ST / FS	5052814	1104 39 1		179
						1268 SL 500 FS	35 x 18/ ST / FS	5038658	1104 40 3		179
342 M8X30 G	M8 x 30 30/ St / G	5256335	3158 30 6		186	1268 SL 600 FS	35 x 18/ ST / FS	5486190	1104 41 1		179
						1268 SL 800 FS	35 x 18/ ST / FS	5051732	1104 42 7		179
						1268 SL 900 FS	35 x 18/ ST / FS	5052630	1104 43 5		179
939	300/ St / G	5386056	5043 10 7		251						
						2056 100 FT	90-100 / ST / FT	5065296	1160 99 0		310
946 3 G	3 21,5/ St / G	5413950	5301 03 3		323						
						2056 12 ALU	8-12 / AI	5077299	1183 20 6		311
947 3 F	3 20/ TG / F	5414551	5302 02 1		323	2056 12 FT	8-12 / ST / FT	5064459	1160 12 5		310
						2056 12 VA	8-12 / V2A	5063612	1159 51 8		374
948 TG6	M6 6/ ST / G	5513315	3453 82 0		140						
948 TG6	M6 6/ ST / G	5513315	3453 82 0		321	2056 16 ALU	12-16 / AI	5077350	1183 21 4		311
				/100 m		2056 16 FT	12-16 / ST / FT	5064510	1160 16 8		310
						2056 16 VA	12-16 / V2A	5063674	1159 52 6		374
957 3 G	5,29/ St / G	5414971	5303 20 6		322						
						2056 2 12 ALU	8-12 / AI	5435495	1183 38 9		312
				/100 pc.		2056 2 12 FT	8-12 / ST / FT	5065357	1161 12 1		311
964 M10 G	10,5 30-30 / ST / G	5868330	3403 16 5		188	2056 2 16 ALU	12-16 / AI	5435556	1183 39 7		312
						2056 2 16 FT	12-16 / ST / FT	5065418	1161 16 4		311
964 M4 G	4,3 15-15 / ST / G	5867913	3403 02 5		188						
						2056 2 22 ALU	16-22 / AI	5435617	1183 40 0		312
964 M5 G	5,3 20-20 / ST / G	5867975	3403 04 1		188	2056 2 22 FT	16-22 / ST / FT	5065470	1161 22 9		311
						2056 2 28 ALU	22-28 / AI	5435679	1183 41 9		312
964 M6 G	6,4 25-25 / ST / G	5868095	3403 08 4		188	2056 2 28 FT	22-28 / ST / FT	5065531	1161 28 8		311
964 M6 G	6,4 30-30 / ST / G	5868156	3403 09 2		188						
964 M6 G	6,4 20-20 / ST / G	5868033	3403 07 6		188	2056 2 34 ALU	28-34 / AI	5435730	1183 42 7		312
						2056 2 34 FT	28-34 / ST / FT	5065593	1161 34 2		311
964 M8 G	8,4 25-25 / ST / G	5868279	3403 13 0		188						
964 M8 G	8,4 20-20 / ST / G	5868217	3403 12 2		188	2056 2 40 ALU	34-40 / AI	5435792	1183 43 5		312
						2056 2 40 FT	34-40 / ST / FT	5065654	1161 40 7		311
966 M10 F	11 20-20 / ST / F	5300854	3402 46 0		187	2056 2 46 ALU	40-46 / AI	5435853	1183 44 3		312
966 M10 VA	M10 10,5/ V2A	5300618	3402 32 0		346	2056 2 46 FT	40-46 / ST / FT	5065715	1161 46 6		311
966 M12 F	13,5 24-24 / ST / F	5300915	3402 47 9		187	2056 2 52 ALU	46-52 / AI	5435914	1183 45 1		312
966 M12 VA	M12 13/ V2A	5300670	3402 33 9		346	2056 2 52 FT	46-52 / ST / FT	5065777	1161 52 0		311
						2056 2 58 ALU	52-58 / AI	5435976	1183 47 8		312
966 M6 F	6,6 12-12 / ST / F	5300731	3402 44 4		187	2056 2 58 FT	52-58 / ST / FT	5065838	1161 57 1		311
966 M6 VA	M6 6,4/ V2A	5300496	3402 30 4		346	2056 2 64 FT	58-64 / ST / FT	5065890	1161 64 4		311
966 M8 F	9 16-16 / ST / F	5300793	3402 45 2		187	2056 22 ALU	16-22 / AI	5077411	1183 22 2		311
						2056 22 FT	16-22 / ST / FT	5064572	1160 22 2		310
966 M8 VA	M8 8,4/ V2A	5300557	3402 31 2		346	2056 22 VA	16-22 / V2A	5063735	1159 53 4		374
				/100 m		2056 28 ALU	22-28 / AI	5077473	1183 23 0		311
1268 L 1M FS	35 x 18/ ST / FS	5694458	1104 49 7		179	2056 28 FT	22-28 / ST / FT	5064633	1160 28 1		310
						2056 28 VA	22-28 / V2A	5063797	1159 54 2		374
				/100 pc.							
1268 L 200 FS	35 x 18/ ST / FS	5038290	1104 26 8		179	2056 3 12 FT	8-12 / ST / FT	5066972	1162 12 8		311
						2056 3 16 FT	12-16 / ST / FT	5067030	1162 16 0		311
				/100 m							
1268 L 2M FS	35 x 18/ ST / FS	5038771	1104 50 0		179	2056 3 22 FT	16-22 / ST / FT	5067092	1162 22 5		311
						2056 3 28 FT	22-28 / ST / FT	5067153	1162 28 4		311
				/100 pc.							
1268 L 300 FS	35 x 18/ ST / FS	5038351	1104 28 4		179	2056 3 34 FT	28-34 / ST / FT	5067214	1162 34 9		311
1268 L 400 FS	35 x 18/ ST / FS	5836353	1104 29 2		179	2056 3 40 FT	34-40 / ST / FT	5067276	1162 40 3		311
						2056 3 46 FT	40-46 / ST / FT	5067337	1162 46 2		311
1268 L 500 FS	35 x 18/ ST / FS	5038412	1104 30 6		179						
						2056 34 ALU	28-34 / AI	5077534	1183 24 9		311
1268 L 600 FS	35 x 18/ ST / FS	5036678	1104 31 0		179	2056 34 FT	28-34 / ST / FT	5064695	1160 34 6		310
						2056 34 VA	28-34 / V2A	5063858	1159 55 0		374
1268 L 700 FS	35 x 18/ ST / FS	5036739	1104 31 5		179						
						2056 40 ALU	34-40 / AI	5077596	1183 25 7		311
1268 L 800 FS	35 x 18/ ST / FS	5036791	1104 32 0		179	2056 40 FT	34-40 / ST / FT	5064756	1160 40 0		310
						2056 40 VA	34-40 / V2A	5063919	1159 56 9		374
1268 L 900 FS	35 x 18/ ST / FS	5036852	1104 32 5		179						
						2056 46 ALU	40-46 / AI	5077657	1183 26 5		311

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				/100 pc.						/100 pc.	
2056 46 FT	40-46 / ST / FT	5064817	1160 45 1		310	2056F 76 FT	70-76 / ST / FT	5071297	1169 76 9		314
2056 46 VA	40-46 / V2A	5063971	1159 57 7		374	2056F 82 FT	76-82 / ST / FT	5071358	1169 82 3		314
2056 52 ALU	46-52 / AI	5077718	1183 27 3		311	2056F 90 FT	82-90 / ST / FT	5071419	1169 90 4		314
2056 52 FT	46-52 / ST / FT	5064879	1160 52 4		310	2056N 12 FT	8-12 / ST / FT	5067399	1163 12 4		310
2056 52 VA	46-52 / V2A	5064039	1159 58 5		374	2056N 16 FT	12-16 / ST / FT	5067450	1163 16 7		310
2056 58 ALU	52-58 / AI	5077770	1183 28 1		311	2056N 2 12 FT	8-12 / ST / FT	5068297	1164 12 0		310
2056 58 FT	52-58 / ST / FT	5064930	1160 58 3		310	2056N 2 16 FT	12-16 / ST / FT	5068358	1164 16 3		310
2056 58 VA	52-58 / V2A	5064091	1159 59 3		374	2056N 2 22 FT	16-22 / ST / FT	5068419	1164 22 8		310
2056 64 ALU	58-64 / AI	5077831	1183 30 3		311	2056N 2 28 FT	22-28 / ST / FT	5068471	1164 28 7		310
2056 64 FT	58-64 / ST / FT	5064992	1160 64 8		310	2056N 2 34 FT	28-34 / ST / FT	5068532	1164 34 1		310
2056 64 VA	58-64 / V2A	5064152	1159 60 7		374	2056N 2 40 FT	34-40 / ST / FT	5068594	1164 40 6		310
2056 70 ALU	64-70 / AI	5435310	1183 31 1		311	2056N 2 46 FT	40-46 / ST / FT	5068655	1164 46 5		310
2056 70 FT	64-70 / ST / FT	5065050	1160 70 2		310	2056N 2 52 FT	46-52 / ST / FT	5068716	1164 51 1		310
2056 70 VA	64-70 / V2A	5064213	1159 61 5		374	2056N 2 58 FT	52-58 / ST / FT	5068778	1164 58 9		310
2056 76 ALU	70-76 / AI	5435372	1183 33 8		311	2056N 22 FT	16-22 / ST / FT	5067511	1163 22 1		310
2056 76 FT	70-76 / ST / FT	5065111	1160 76 1		310	2056N 28 FT	22-28 / ST / FT	5067573	1163 28 0		310
2056 76 VA	70-76 / V2A	5064275	1159 62 3		374	2056N 34 FT	28-34 / ST / FT	5067634	1163 34 5		310
2056 82 FT	76-82 / ST / FT	5065173	1160 82 6		310	2056N 40 FT	34-40 / ST / FT	5067696	1163 39 6		310
2056 90 FT	82-90 / ST / FT	5065234	1160 90 7		310	2056N 46 FT	40-46 / ST / FT	5067757	1163 46 9		310
2056 M 100 FT	90-100 / ST / FT	5063551	1156 16 0		312	2056N 52 FT	46-52 / ST / FT	5067818	1163 52 3		310
2056 M 12 FT	8-12 / ST / FT	5062714	1156 00 4		312	2056N 58 FT	52-58 / ST / FT	5067870	1163 58 2		310
2056 M 16 FT	12-16 / ST / FT	5062776	1156 01 2		312	2056N 64 FT	58-64 / ST / FT	5067931	1163 64 7		310
2056 M 22 FT	16-22 / ST / FT	5062837	1156 02 0		312	2056N 70 FT	64-70 / ST / FT	5067993	1163 70 1		310
2056 M 28 FT	22-28 / ST / FT	5062899	1156 03 9		312	2056U 100 FT	90-100 / ST / FT	5073574	1175 99 8		312
2056 M 34 FT	28-34 / ST / FT	5062950	1156 04 7		312	2056U 12 FT	8-12 / ST / FT	5072737	1175 12 2		312
2056 M 40 FT	34-40 / ST / FT	5063018	1156 05 5		312	2056U 12 VA	8-12 / V2A	5074595	1178 50 4		374
2056 M 46 FT	40-46 / ST / FT	5063070	1156 06 3		312	2056U 16 FT	12-16 / ST / FT	5072799	1175 16 5		312
2056 M 52 FT	46-52 / ST / FT	5063131	1156 07 1		312	2056U 16 VA	12-16 / V2A	5074656	1178 51 2		374
2056 M 58 FT	52-58 / ST / FT	5063193	1156 09 8		312	2056U 2 12 FT	8-12 / ST / FT	5073635	1176 12 9		313
2056 M 64 FT	58-64 / ST / FT	5063254	1156 10 1		312	2056U 2 16 FT	12-16 / ST / FT	5073697	1176 16 1		313
2056 M 70 FT	64-70 / ST / FT	5063315	1156 12 8		312	2056U 2 22 FT	16-22 / ST / FT	5073758	1176 22 6		313
2056 M 76 FT	70-76 / ST / FT	5063377	1156 13 6		312	2056U 2 28 FT	22-28 / ST / FT	5073819	1176 28 5		313
2056 M 82 FT	76-82 / ST / FT	5063438	1156 14 4		312	2056U 2 34 FT	28-34 / ST / FT	5073871	1176 33 1		313
2056 M 90 FT	82-90 / ST / FT	5063490	1156 15 2		312	2056U 2 40 FT	34-40 / ST / FT	5073932	1176 40 4		313
2056F 12 FT	8-12 / ST / FT	5070634	1169 12 2		314	2056U 2 46 FT	40-46 / ST / FT	5073994	1176 46 3		313
2056F 16 FT	12-16 / ST / FT	5070696	1169 16 5		314	2056U 2 52 FT	46-52 / ST / FT	5074052	1176 52 8		313
2056F 2 12 FT	8-12 / ST / FT	5071532	1170 12 0		314	2056U 2 58 FT	52-58 / ST / FT	5074113	1176 58 7		313
2056F 2 16 FT	12-16 / ST / FT	5071594	1170 16 3		314	2056U 22 FT	16-22 / ST / FT	5072850	1175 21 1		312
2056F 2 22 FT	16-22 / ST / FT	5071655	1170 22 8		314	2056U 22 VA	16-22 / V2A	5074717	1178 52 0		374
2056F 2 28 FT	22-28 / ST / FT	5071716	1170 28 7		314	2056U 28 FT	22-28 / ST / FT	5072911	1175 28 9		312
2056F 2 34 FT	28-34 / ST / FT	5071778	1170 34 1		314	2056U 28 VA	22-28 / V2A	5074779	1178 53 9		374
2056F 2 40 FT	34-40 / ST / FT	5071839	1170 40 6		314	2056U 3 12 FT	8-12 / ST / FT	5074175	1177 12 5		313
2056F 2 46 FT	40-46 / ST / FT	5071891	1170 46 5		314	2056U 3 16 FT	12-16 / ST / FT	5074236	1177 16 8		313
2056F 2 52 FT	46-52 / ST / FT	5071952	1170 51 1		314	2056U 3 22 FT	16-22 / ST / FT	5074298	1177 22 2		313
2056F 22 FT	16-22 / ST / FT	5070757	1169 21 1		314	2056U 3 28 FT	22-28 / ST / FT	5074359	1177 28 1		313
2056F 28 FT	22-28 / ST / FT	5070818	1169 28 9		314	2056U 3 34 FT	28-34 / ST / FT	5074410	1177 34 6		313
2056F 34 FT	28-34 / ST / FT	5070870	1169 34 3		314	2056U 3 40 FT	34-40 / ST / FT	5074472	1177 40 0		313
2056F 40 FT	34-40 / ST / FT	5070931	1169 40 8		314	2056U 3 46 FT	40-46 / ST / FT	5074533	1177 45 1		313
2056F 46 FT	40-46 / ST / FT	5070993	1169 46 7		314	2056U 34 FT	28-34 / ST / FT	5072973	1175 34 3		312
2056F 52 FT	46-52 / ST / FT	5071051	1169 52 1		314	2056U 34 VA	28-34 / V2A	5074830	1178 54 7		374
2056F 58 FT	52-58 / ST / FT	5071112	1169 58 0		314	2056U 40 FT	34-40 / ST / FT	5073031	1175 40 8		312
2056F 64 FT	58-64 / ST / FT	5071174	1169 64 5		314	2056U 40 VA	34-40 / V2A	5074892	1178 55 5		374
2056F 70 FT	64-70 / ST / FT	5071235	1169 69 6		314	2056U 46 FT	40-46 / ST / FT	5073093	1175 46 7		312
						2056U 46 VA	40-46 / V2A	5074953	1178 56 3		374
						2056U 52 FT	46-52 / ST / FT	5073154	1175 52 1		312
						2056U 52 VA	46-52 / V2A	5075011	1178 57 1		374

Type listing

Structure of the EAN number: Country code **40**

Manufacturer code **1219** (for articles beginning with **0: 1010**)

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2056U 58 FT	52-58 / ST / FT	5073215	1175 58 0	/100 pc.	312	2063 L 2M FS	35 x 18/ ST / FS	5632597	1112 70 8	/100 m	178
2056U 58 VA	52-58 / V2A	5075073	1178 59 8		374	2063 L 2M FT	35 x 18/ ST / FT	5632535	1112 75 9		178
2056U 64 FT	58-64 / ST / FT	5073277	1175 64 5		312	2068 2M BK	35 x 18/ ST	5046936	1118 02 1		178
2056U 64 VA	58-64 / V2A	5075134	1178 60 1		374	2068 2M FS	35 x 18/ ST / FS	5047179	1118 22 6		178
						2068 2M FT	35 x 18/ ST / FT	5047056	1118 12 9		178
2056U 70 FT	64-70 / ST / FT	5073338	1175 69 6		312						
2056U 70 VA	64-70 / V2A	5075196	1178 62 8		374	2068 L 1M FT	35 x 18/ ST / FT	5053958	1119 67 2		178
2056U 76 FT	70-76 / ST / FT	5073390	1175 76 9		312						
2056U 76 VA	70-76 / V2A	5075257	1178 63 6		374	2068 L 200 FT	35 x 18/ ST / FT	5060673	1119 69 6		178
2056U 82 FT	76-82 / ST / FT	5073451	1175 82 3		312	2068 L 2M FT	35 x 18/ ST / FT	5047599	1119 65 6	/100 m	178
2056U 90 FT	82-90 / ST / FT	5073512	1175 90 4		312	2068 L 2M VA	35 x 18/ V2A	5047650	1119 70 2		345
2056W 12 FT	8-12 / ST / FT	5075431	1180 12 6		313	2068 L 300 FT	35 x 18/ ST / FT	5060611	1119 69 3		178
2056W 16 FT	12-16 / ST / FT	5075493	1180 16 9		313	2068 L 400 FT	35 x 18/ ST / FT	5060376	1119 69 0		178
2056W 2 12 FT	8-12 / ST / FT	5076339	1181 12 2		313	2068 L 500 FT	35 x 18/ ST / FT	5060253	1119 68 7	/100 m	178
2056W 2 16 FT	12-16 / ST / FT	5076391	1181 16 5		313	2068 L 600 FT	35 x 18/ ST / FT	5059417	1119 68 4		178
2056W 2 22 FT	16-22 / ST / FT	5076452	1181 21 1		313	2068 L 6M VA	35 x 18/ V2A	5047711	1119 72 9		345
2056W 2 28 FT	22-28 / ST / FT	5076513	1181 28 9		313						
2056W 2 34 FT	28-34 / ST / FT	5076575	1181 34 3		313	2068 L 700 FT	35 x 18/ ST / FT	5059356	1119 68 1	/100 pc.	178
2056W 2 40 FT	34-40 / ST / FT	5076636	1181 40 8		313	2068 L 800 FT	35 x 18/ ST / FT	5059295	1119 67 8		178
2056W 2 46 FT	40-46 / ST / FT	5076698	1181 46 7		313	2068 L 900 FT	35 x 18/ ST / FT	5056119	1119 67 5		178
2056W 2 52 FT	46-52 / ST / FT	5076759	1181 52 1		313	2078 M10 1M G	M10 10/ St / G	5253396	3141 20 9		140
2056W 2 58 FT	52-58 / ST / FT	5076810	1181 58 0		313	2078 M10 1M G	M10 10/ St / G	5253396	3141 20 9		252
2056W 22 FT	16-22 / ST / FT	5075554	1180 22 3		313	2078 M10 1M G	M10 10/ St / G	5253396	3141 20 9		321
2056W 28 FT	22-28 / ST / FT	5075615	1180 28 2		313	2078 M10 2M G	M10 10/ ST / G	5123583	3141 14 0		140
2056W 34 FT	28-34 / ST / FT	5075677	1180 34 7		313	2078 M10 2M G	M10 10/ ST / G	5123583	3141 14 0		321
2056W 40 FT	34-40 / ST / FT	5075738	1180 40 1		313	2078 M10 VA	M10 10/ V2A	5023579	3141 31 2		252
2056W 46 FT	40-46 / ST / FT	5075790	1180 46 0		313	2078 M10 VA	M10 10/ V2A	5023579	3141 31 2		346
2056W 52 FT	46-52 / ST / FT	5075851	1180 52 5		313	2078 M10 VA	M10 10/ V2A	5023579	3141 31 2		361
2056W 58 FT	52-58 / ST / FT	5075912	1180 58 4		313	2078 M12 1M G	M12 12/ St / G	5253457	3141 30 6		140
2056W 64 FT	58-64 / ST / FT	5075974	1180 64 9		313	2078 M12 1M G	M12 12/ St / G	5253457	3141 30 6		252
2056W 70 FT	64-70 / ST / FT	5076032	1180 68 1		313	2078 M12 1M G	M12 12/ St / G	5253457	3141 30 6		321
2056W 76 FT	70-76 / ST / FT	5076094	1180 76 2		313	2078 M12 2M G	M12 12/ ST / G	5123644	3141 14 4		140
2056W 82 FT	76-82 / ST / FT	5076155	1180 82 7		313	2078 M12 2M G	M12 12/ ST / G	5123644	3141 14 4		321
2056W 90 FT	82-90 / ST / FT	5076216	1180 90 8		313	2078 M12 VA	M12 12/ V2A	5594437	3141 31 4		252
2058 12 LGR	8-12 2700/ PP	5081371	1195 12 3		314	2078 M12 VA	M12 12/ V2A	5594437	3141 31 4		346
2058 16 LGR	12-16 2700/ PP	5081432	1195 16 6		314	2078 M12 VA	M12 12/ V2A	5594437	3141 31 4		361
2058 22 LGR	16-22 2700/ PP	5081494	1195 22 0		314	2078 M8 1M G	M8 8/ St / G	5253334	3141 12 8		140
2058 28 LGR	22-28 1800/ PP	5081555	1195 27 1		314	2078 M8 1M G	M8 8/ St / G	5253334	3141 12 8		252
2058 34 LGR	28-34 1200/ PP	5081616	1195 34 4		314	2078 M8 1M G	M8 8/ St / G	5253334	3141 12 8		321
2058 40 LGR	34-40 1200/ PP	5081678	1195 40 9		314	2078 M8 2M G	M8 8/ ST / G	5119982	3141 13 6		140
2058 46 LGR	40-46 1200/ PP	5081739	1195 46 8		314	2078 M8 2M G	M8 8/ ST / G	5119982	3141 13 6		321
2058 52 LGR	46-52 1200/ PP	5081791	1195 52 2		314	2078 M8 VA	M8 8/ V2A	5023456	3141 31 0		252
2058 58 LGR	52-58 1200/ PP	5081852	1195 58 1		314	2078 M8 VA	M8 8/ V2A	5023456	3141 31 0		346
2058 64 LGR	58-64 500/ PP	5081913	1195 64 6		314	2078 M8 VA	M8 8/ V2A	5023456	3141 31 0		361
2058 70 LGR	64-70 500/ PP	5081975	1195 70 0		314	2084 K M6	M6 22/ Zn / G	5307150	3463 06 0		323
2063 2M BK	35 x 18/ ST	5043157	1112 02 3	/100 m	178					/100 m	
2063 2M FS	35 x 18/ ST / FS	5043270	1112 12 0		178	2100 FT	46 x 24/ ST / FT	5047773	1120 20 4		179
2063 2M FT	35 x 18/ ST / FT	5043393	1112 22 8		178	2110 FT	56 x 30/ ST / FT	5048732	1121 22 7		179
					178						
						2990 M6 G	M6 3,5/ ST / G	5306979	3462 86 2	/100 pc.	323
						2990 M8 G	M8 3,5/ ST / G	5307037	3462 88 9		323
						5015 M6 OS VA	M6/ V2A	5053231	1141 10 4		274
						5017 M6 OS VA	M6/ V4A	5119920	1143 12 3		274
						5019 M10 OS G	10 6/ ST / G	5053835	1144 13 8		189
						5019 M6 OS G	6 4/ ST / G	5053712	1144 10 3		189
						5019 M8 OS G	8 5/ ST / G	5053774	1144 11 1		189

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5022 M10x25 F	M10 25/ ST / F	5057499	1151 40 1	/100 pc.	190	AHB 300 FT	300 8/ ST / FT	6881536	6363 93 8	/pc.	143
5022 M10x30 F	M10 30/ ST / F	5057550	1151 42 8		190						
5022 M10x40 F	M10 40/ ST / F	5057673	1151 44 4		190	AHB 400 FT	400 8/ ST / FT	6881598	6363 94 6		143
5022 M12x30 G	M12 30/ ST / G	5057796	1151 62 2	/100 pc.	190					/100 pc.	
5022 M12x40 G	M12 40/ ST / G	5057918	1151 64 9		190	AHB FT	/ ST / F	6935895	6066 50 5		319
5022 M6X25 F	M6 25/ ST / F	5057017	1151 01 0	/pc.	190					/pc.	
5022 M6X30 F	M6 30/ ST / F	5057079	1151 02 9		190	AHIS 8 FT	/ ST / FT	6014477	6019 06 4		172
					190	AHIS 8 FT	/ ST / FT	6014477	6019 06 4		308
5022 M8X25 F	M8 25/ ST / F	5057253	1151 21 5	/100 pc.	190					/100 pc.	
5022 M8X30 F	M8 30/ ST / F	5057314	1151 22 3		190						
5022 M8X40 F	M8 40/ ST / F	5057437	1151 25 8		190	AS 15 11 FT	110 50/ ST / FT	6207732	6421 32 6		173
5023 M10x30 G	M10 30/ ST / G	5058335	1153 41 2	/100 pc.	190	AS 15 16 FT	160 55/ ST / FT	6207794	6421 33 4	/100 pc.	173
5023 M10x35 G	M10 35/ ST / G	5058397	1153 42 0		190						
5023 M10x40 G	M10 40/ ST / G	5058458	1153 43 9		190	AS 15 21 FT	210 60/ ST / FT	6207855	6421 35 0		173
5023 M12x30 G	M12 30/ ST / G	5058755	1153 61 7	/100 pc.	190	AS 15 31 FT	310 65/ ST / FT	6207916	6421 38 5	/100 pc.	173
5023 M12x35 G	M12 35/ ST / G	5058816	1153 62 5		190						
5023 M12x40 G	M12 40/ ST / G	5058878	1153 63 3		190	AS 15 41 FT	410 70/ ST / FT	6207978	6421 42 3		173
5023 M12x50 G	M12 50/ ST / G	5058939	1153 64 1	/100 pc.	190	AS 15 51 FT	510 75/ ST / FT	6208036	6421 46 6	/100 pc.	173
5024 M10x30 G	M10 30/ ST / G	5059714	1154 41 9		190						
5024 M10x35 G	M10 35/ ST / G	5059776	1154 42 7		190	AS 15 61 FT	610 80/ ST / FT	6208098	6421 49 0		173
5024 M10x40 G	M10 40/ ST / G	5059837	1154 43 5	/100 pc.	190					/100 pc.	
5024 M12x30 G	M12 30/ ST / G	5060017	1154 60 5		190	AS 30 11 FT	110 60/ ST / FT	6205332	6418 75 9		173
5024 M12x35 G	M12 35/ ST / G	5060079	1154 61 3		190	AS 30 16 FT	160 65/ ST / FT	6205394	6418 76 7		173
5024 M12x40 G	M12 40/ ST / G	5060130	1154 62 1	/100 pc.	190					/100 pc.	
5024 M12x50 G	M12 50/ ST / G	5060192	1154 64 8		190	AS 30 21 FT	210 70/ ST / FT	6205455	6418 77 5		173
5026 M6X20 G	M6 20/ ST / G	5057970	1151 70 3		190	AS 30 31 FT	310 80/ ST / FT	6205516	6418 79 1		173
5026 M8X25 G	M8 25/ ST / G	5058038	1151 71 1	/100 m	190	AS 30 41 FT	410 80/ ST / FT	6205578	6418 81 3	/100 m	173
						AS 30 51 FT	510 90/ ST / FT	6205639	6418 84 8		173
5050 20X3 3M FT	3000 20/ ST / FT	5137597	1465 76 7		181	AS 30 56 FT	560 100/ ST / FT	6205691	6418 85 6		173
5050 20X3 FT	20x3 6,5x40/ ST / FT	6326112	6017 37 1	/pc.	251	AS 30 61 FT	610 100/ ST / FT	6205752	6418 86 4	/pc.	173
						AS 30 71 FT	710 100/ ST / FT	6481637	6418 87 2		173
5050 25X3 3MFT	3000 25/ ST / FT	5137658	1465 77 5		181	AS 55 101 FT	1010 195/ ST / FT	6482474	6419 20 8		174
5050 30X3 3M FT	3000 30/ ST / FT	5137719	1465 79 1	/100 m	181	AS 55 21 FT	210 90/ ST / FT	6205813	6419 04 6	/100 m	174
5050 30X4 3M FT	3000 30/ ST / FT	5137771	1465 80 5		181	AS 55 31 FT	310 110/ ST / FT	6205875	6419 06 2		174
5050 40X4 3M FT	3000 40/ ST / FT	5137832	1465 82 1		181	AS 55 41 FT	410 130/ ST / FT	6205936	6419 08 9		174
5050 SB30x3 FT	3000 30/ ST / FT	5137955	1466 26 7	/pc.	181	AS 55 51 FT	510 145/ ST / FT	6205998	6419 10 0	/pc.	174
5055 I FS	12 x 1/ ST / FS	5138310	1470 12 4		323	AS 55 56 FT	560 165/ ST / FT	6206056	6419 11 9		174
5055 II FS	17 x 1/ ST / FS	5138372	1470 17 5		323	AS 55 61 FT	610 165/ ST / FT	6206117	6419 12 7		174
5055 III FS	26 x 1.2/ ST / FS	5138433	1470 26 4	/100 pc.	323	AS 55 71 FT	710 195/ ST / FT	6206179	6419 14 3	/100 pc.	174
5055 L I 12	12 x 0.75/ ST / FS	5138679	1471 12 0		323	AS 55 81 FT	810 195/ ST / FT	6206230	6419 17 8		174
5055 L II 17	17 x 0.75/ ST / FS	5138730	1471 17 1		323	AS 55 91 FT	910 195/ ST / FT	6482412	6419 19 4		174
5055 L III 26	26 x 1/ ST / FS	5138792	1471 26 0	/100 pc.	323					/100 pc.	
12005 M10 G	M10 10/ ST / G	6202270	6410 10 3		141	AW 15 11 FT	110 50/ St / FT	6207077	6420 65 6		162
12005 M10 G	M10 10/ ST / G	6202270	6410 10 3		322	AW 15 11 VA4301	110 50/ V2A	6207558	6421 00 8		342
12005 M12 G	M12 12/ ST / G	6202331	6410 11 1	/pc.	141	AW 15 11 VA4571	110 50/ V4A	6817634	6392 00 8	/pc.	384
12005 M12 G	M12 12/ ST / G	6202331	6410 11 1		322						
12005 M8 G	M8 8/ ST / G	6202218	6410 08 1		141	AW 15 16 FT	160 55/ St / FT	6207138	6420 66 4		162
12005 M8 G	M8 8/ ST / G	6202218	6410 08 1	/pc.	322	AW 15 21 FT	210 60/ St / FT	6207190	6420 68 0	/pc.	162
AHB 100 FT	100 6/ ST / FT	6881413	6363 90 3		143	AW 15 21 VA4301	210 60/ V2A	6207619	6421 02 4		342
AHB 150 FT	150 8/ ST / FT	6148219	6363 90 7		143	AW 15 21 VA4571	210 60/ V4A	6817696	6392 01 6		384
AHB 200 FT	200 8/ ST / FT	6881475	6363 91 1		143	AW 15 31 FT	310 65/ St / FT	6207251	6420 71 0		162

Type listing

Structure of the EAN number: Country code **40**

Manufacturer code **1219** (for articles beginning with **0: 1010**)

Individual EAN-C 5647589

Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
AW 15 31 VA4301 AW 15 31 VA4571	310 65/ V2A 310 65/ V4A	6207671 6817757	6421 03 2 6392 02 4	/pc.	342 384	AW 55 61 FT AW 55 61 VA4301	610 165/ St / FT 610 165/ V2A	6205035 6661152	6418 63 5 6443 07 9	/pc.	165 344
AW 15 41 FT	410 70/ St / FT	6207312	6420 74 5		162	AW 55 71 FT AW 55 71 VA4301	710 195/ St / FT 710 195/ V2A	6205097 6661879	6418 65 1 6443 08 3		165 344
AW 15 41 VA4301 AW 15 41 VA4571	410 70/ V2A 410 70/ V4A	5061953 6817818	6421 03 6 6392 03 2		342 384	AW 55 81 FT AW 55 91 FT	810 195/ St / FT 910 215/ St / FT	6205158 6205219	6418 68 6 6418 70 8		165 165
AW 15 51 FT	510 75/ St / FT	6207374	6420 78 8		162	AW 80 21 FT	210 110/ St / FT	6203475	6417 75 2		166
AW 15 51 VA4301 AW 15 51 VA4571	510 75/ V2A 510 75/ V4A	5061960 6817870	6421 04 0 6392 04 0		342 384	AW 80 31 FT AW 80 41 FT	310 145/ St / FT 410 165/ St / FT	6203536 6203598	6417 77 9 6417 79 5		166 166
AW 15 56 FT	560 80/ St / FT	6207435	6420 79 6		162	AW 80 51 FT	510 195/ St / FT	6203659	6417 81 7		166
AW 15 61 FT	610 80/ St / FT	6207497	6420 82 6		162	AW 80 61 FT	610 210/ St / FT	6203710	6417 83 3		166
AW 15 61 VA4301 AW 15 61 VA4571	610 80/ V2A 610 80/ V4A	5061977 6817931	6421 04 4 6392 05 9		342 384	AW 80 71 FT AW 80 81 FT	710 235/ St / FT 810 260/ St / FT	6203772 6203833	6417 86 8 6417 88 4		166 166
AW 30 11 FT	110 60/ St / FT	6206599	6419 70 4		164	AW G 15 11 FT AW G 15 16 FT	110 50/ St / FT 160 55/ St / FT	6662470 6079155	6420 60 6 6420 60 7		163 163
AW 30 11 VA4301 AW 30 11 VA4571	110 60/ V2A 110 60/ V4A	6208937 5021049	6442 80 3 6443 61 5		343 385	AW G 15 21 FT AW G 15 31 FT AW G 15 41 FT AW G 15 51 FT AW G 15 61 FT	210 60/ St / FT 310 65/ St / FT 410 70/ St / FT 510 75/ St / FT 610 80/ St / FT	6662531 6662593 6662654 6662715 6662777	6420 60 8 6420 61 0 6420 61 2 6420 61 4 6420 61 6		163 163 163 163 163
AW 30 16 FT	160 65/ St / FT	6206650	6419 71 2		164	AW30 56 VA4571	560 100/ V4A	5049722	6443 62 6		385
AW 30 21 FT	210 70/ St / FT	6206711	6419 72 0		164	AWG 15 11 VA4571 AWG 15 11VA4301	110 65/ V4A 110 50/ V2A	5706304 5058373	6420 64 2 6420 62 5		384 343
AW 30 31 FT	310 80/ St / FT	6206773	6419 74 7		164	AWG 15 21 VA4571 AWG 15 21VA4301	210 65/ V4A 210 60/ V2A	5706311 5058380	6420 64 4 6420 62 8		384 343
AW 30 31 VA4301 AW 30 31 VA4571	310 80/ V2A 310 80/ V4A	6209118 6955879	6442 85 4 6443 62 1		343 385	AWG 15 31VA4301 AWG 15 31VA4571	310 65/ V2A 310 65/ V4A	5058427 5395362	6420 63 1 6420 64 6		343 384
AW 30 41 FT	410 80/ St / FT	6206834	6419 76 3		164	AWG 15 41 VA4571 AWG 15 41VA4301	410 65/ V4A 410 70/ V2A	5706052 5058434	6420 64 8 6420 63 4		384 343
AW 30 41 VA4301 AW 30 41 VA4571	410 80/ V2A 410 80/ V4A	6209170 6554478	6442 87 0 6443 34 6		343 385	AWG 15 51 VA4571 AWG 15 51VA4301	510 65/ V4A 510 75/ V2A	5706328 5058502	6420 65 0 6420 63 7		384 343
AW 30 51 FT	510 90/ St / FT	6206896	6419 79 8		164	AWG 15 61 VA4571 AWG 15 61VA4301	610 65/ V4A 610 80/ V2A	5706359 5058540	6420 65 2 6420 64 0		384 343
AW 30 51 VA4301 AW 30 51 VA4571	510 90/ V2A 510 90/ V4A	6209231 5021094	6442 89 7 6443 62 5		343 385	AWSS 101 FT AWSS 21 FT	1010 359/ St / FT 210 335/ St / FT	6340750 6340279	6417 93 8 6417 90 6		167 167
AW 30 56 FT	560 100/ St / FT	6207015	6419 84 4		164	AWSS 31 FT	310 335/ St / FT	6340330	6417 91 0		167
AW 30 61 FT	610 100/ St / FT	6206957	6419 82 8		164	AWSS 41 FT	410 335/ St / FT	6340392	6417 91 4		167
AW 30 61 VA4301 AW 30 61 VA4571	610 100/ V2A 610 100/ V4A	6209293 5021100	6442 91 9 6443 62 7		343 385	AWSS 51 FT AWSS 61 FT	510 335/ St / FT 610 335/ St / FT	6340453 6340514	6417 91 8 6417 92 2		167 167
AW 30 71 FT	710 100/ St / FT	6483730	6419 83 6		164	AWSS 71 FT	710 335/ St / FT	6340576	6417 92 6		167
AW 55 101 FT	1010 230/ St / FT	6205271	6418 72 4		165	AWSS 81 FT	810 341/ St / FT	6340637	6417 93 0		167
AW 55 21 FT AW 55 21 VA4301	210 90/ St / FT 210 90/ V2A	6204731 6441433	6418 55 4 6443 06 3		165 344	AWSS 91 FT AWV 21 FT	910 366/ St / FT 210 130/ St / FT	6340699 6206292	6417 93 4 6419 53 4		167 167
AW 55 31 FT AW 55 31 VA4301	310 110/ St / FT 310 110/ V2A	6204793 6441495	6418 57 0 6443 06 7		165 344	AWV 31 FT	310 130/ St / FT	6206353	6419 55 0		167
AW 55 41 FT AW 55 41 VA4301	410 130/ St / FT 410 130/ V2A	6204854 6617111	6418 59 7 6443 07 1		165 344	AWV 41 FT AWV 51 FT	410 130/ St / FT 510 130/ St / FT	6206414 6206476	6419 57 7 6419 59 3		167 167
AW 55 51 FT AW 55 51 VA4301	510 145/ St / FT 510 145/ V2A	6204915 6661091	6418 61 9 6443 07 5		165 344	AWV 61 FT	610 130/ St / FT	6206537	6419 61 5		167
AW 55 56 FT	560 165/ St / FT	6204977	6418 62 7		165	AWVL 11 FS	170 60/ St / FS	5058663	6419 46 4		166

Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
AWVL 11 FT	170 60/ ST / FT	5058670	6419 50 1	/pc.	166	BEB 300 VA4301	300/ V2A	6232154	7084 06 4	/pc.	354
AWVL 16 FS	220 60/ ST / FS	5058687	6419 46 8		166	BEB 400 DD	400/ ST / DD	6024254	7083 63 4		227
AWVL 16 FT	220 60/ ST / FT	5058724	6419 50 5		166	BEB 400 FS	400/ St / FS	6231317	7083 40 8		227
AWVL 21 FS	270 60/ ST / FS	5058731	6419 47 2		166	BEB 400 VA4301	400/ V2A	6232215	7084 08 0		354
AWVL 21 FT	270 60/ ST / FT	5058748	6419 50 9		166	BEB 500 DD	500/ ST / DD	6024490	7083 63 8		227
AWVL 31 FS	370 60/ ST / FS	5058786	6419 47 6		166	BEB 500 FS	500/ St / FS	6231379	7083 50 5		227
AWVL 31 FT	370 60/ ST / FT	5058793	6419 51 3		166	BEB 500 VA4301	500/ V2A	6232277	7084 10 2		354
AWVL 41 FS	470 60/ ST / FS	5058809	6419 48 0		166	BEB 550 DD	550/ ST / DD	6100996	7083 64 0		227
AWVL 41 FT	470 60/ ST / FT	5058847	6419 51 7		166	BEB 550 FS	550/ St / FS	6231430	7083 55 6		227
AZDMD 100 DD	103 3000/ ST / DD	6406098	6080 23 5	/m	327	BEB 600 DD	600/ ST / DD	6034635	7083 64 2		227
AZDMD 100 FS	103 3000/ ST / FS	6069552	6080 22 7		327	BEB 600 FS	600/ St / FS	6231492	7083 60 2		227
AZDMD 100 VA4301	103 10/ V2A	6069613	6080 29 4		375	BEB 600 VA4301	600/ V2A	6232338	7084 12 9		354
AZDMD 50 DD	53 3000/ ST / DD	6405916	6080 15 4		327	BF 140 10 FT	/ ST / FT	6295876	6356 36 2		328
AZDMD 50 FS	53 3000/ ST / FS	6069439	6080 13 8		327	BFK 132 58 FT	132 99/ ST / FT	6079889	6003 88 0		176
AZDMD 50 VA4301	53 10/ V2A	6069491	6080 19 7		375	BFK 132 58 FT	132 99/ ST / FT	6079889	6003 88 0		257
AZDR 100 FT	100-100 / ST / FT	6064397	6065 10 4	/pc.	327	BFK 132 58VA4301	132 99/ V2A	6049448	6003 87 1		360
AZDR 100 VA4301	100-100 / V2A	6064694	6065 31 7		376	BFK 153 33 FT	153 101/ ST / FT	6079896	6003 88 4		175
AZDR 50 FT	50-50 / ST / FT	6064458	6065 11 2		327	BFK 153 33 FT	153 101/ ST / FT	6079896	6003 88 4		257
AZDR 50 VA4301	50-50 / V2A	6064632	6065 30 9		375	BFK 153 33VA4301	153 101/ V2A	6049561	6003 87 3		361
AZDU 100 DD	103 3000/ ST / DD	6084197	6080 23 9	/m	327	BFK 166 58 20 FT	166 133/ ST / FT	6079902	6003 88 8		175
AZDU 50 DD	53 3000/ ST / DD	6084135	6080 15 8		327	BFK 166 58 20 FT	166 133/ ST / FT	6079902	6003 88 8		257
AZK 050 FS	50 1,5/ ST / FS	6068951	6075 09 6		326	BFK 166 58 20V2A	166 133/ V2A	6049806	6003 87 7		360
AZK 050 FT	50 1,5/ ST / FT	6069019	6075 14 2		326	BFK 187 33 FT	187 135/ ST / FT	6079919	6003 89 2		176
AZK 050 VA4301	50 1,5/ V2A	6069071	6075 15 0		375	BFK 187 33 FT	187 135/ ST / FT	6079919	6003 89 2		257
AZK 100 FS	100 1,5/ ST / FS	6069132	6075 23 1		326	BFK 187 33VA4301	187 135/ V2A	6049929	6003 87 9		361
AZK 100 FT	100 1,5/ ST / FT	6069194	6075 25 8		326	BID 90 200 FT	200/ ST / FT	6445691	6239 15 3		276
AZK 100 VA4301	100 1,5/ V2A	6069255	6075 30 4		375	BID 90 300 FT	300/ ST / FT	6445752	6239 16 1		276
AZK A 050 FT	50 1,5/ ST / FT	6069316	6076 14 9		326	BID 90 400 FT	400/ ST / FT	6445813	6239 18 8		276
AZK A 100 FT	100 1,5/ ST / FT	6069378	6076 24 6	/100 pc.	326	BID 90 500 FT	500/ ST / FT	6445875	6239 19 6		276
B 33020	22 8/ CuZn	6049080	6404 00 6		195	BID 90 600 FT	600/ ST / FT	6445936	6239 21 8		276
B 33020	22 8/ CuZn	6049080	6404 00 6		251	BKK 104 FT	1,5 104 x 25/ ST / FT	6068234	6070 24 8	/m	329
B 33021	26 10/ CuZn	6049202	6404 01 4		195	BKK 104 VA4301	1,5 104 x 25/ V2A	6068418	6070 77 9		376
B 33021	26 10/ CuZn	6049202	6404 01 4		251	BKK 150 FT	1,5 150 x 25/ ST / FT	6068296	6070 34 5		329
BEB 050 DD	50/ ST / DD	6100934	7083 61 6	/pc.	227	BKK 150 VA4301	1,5 150 x 25/ V2A	6068470	6070 78 7		376
BEB 050 FS	50/ St / FS	6231010	7083 04 1		227	BKK 200 FT	1,5 200 x 25/ ST / FT	6068357	6070 44 2		329
BEB 100 DD	100/ ST / DD	6983728	7083 61 8		227	BKK 200 VA4301	1,5 200 x 25/ V2A	6068531	6070 79 5		376
BEB 100 FS	100/ St / FS	6231072	7083 10 6		227	BKK A 104 FT	1,5 104 x 25/ ST / FT	6068593	6071 24 4		329
BEB 100 VA4301	100/ V2A	6232031	7084 01 3		354	BKK A 150 FT	1,5 150 x 25/ ST / FT	6068654	6071 34 1		329
BEB 150 DD	150/ ST / DD	6026883	7083 62 2		227	BKK A 200 FT	1,5 200 x 25/ ST / FT	6068715	6071 44 9		330
BEB 150 FS	150/ St / FS	6231133	7083 15 7		227	BKK B 104 FT	1,5 104 x 25/ ST / FT	6068777	6072 24 0		330
BEB 200 DD	200/ ST / DD	6982943	7083 62 6		227	BKK B 150 FT	1,5 150 x 25/ ST / FT	6068838	6072 34 8		330
BEB 200 FS	200/ St / FS	6231195	7083 20 3		227	BKK B 200 FT	1,5 200 x 25/ ST / FT	6068890	6072 44 5		330
BEB 200 VA4301	200/ V2A	6232093	7084 04 8		354	BW 60 40 FT	/ ST / FT	6014590	6019 56 0	/pc.	158
BEB 300 DD	300/ ST / DD	6982882	7083 63 0		227	BW 60 40 FT	/ ST / FT	6014590	6019 56 0		309
BEB 300 FS	300/ St / FS	6231256	7083 30 0		227	BW 60 40 VA4301	/ V2A	6014651	6019 58 7		374

Type listing

Structure of the EAN number: Country code **40**

Manufacturer code **1219** (for articles beginning with **0: 1010**)

Individual EAN-C **5647589**

Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
BW 70 40 FT	/ ST / FT	6014835	6019 70 6	/pc.	158	CPS 4 SPR 992 FT	992/ ST / FT	6006311	6007 29 5	/pc.	306
BW 70 40 FT	/ ST / FT	6014835	6019 70 6		309	CPS 4 SPR1092 FT	1092/ ST / FT	6006373	6007 30 9		306
BW 80 55 FT	/ St / FT	6014538	6019 52 8		172	CPS 4 SPR1192 FT	1192/ ST / FT	6006434	6007 31 7		306
BW 80 55 FT	/ St / FT	6014538	6019 52 8		309						
						CPS 4L 2M FT	/ ST / FT	5050230	1121 97 9	/100 m	180
C30 L 1M FT	30 x 15/ ST / FT	5037934	1109 86 3	/100 m	179	CPS 4L 2M VA	40 x 22,5/ V2A	5050179	1121 96 0		345
						CPS 4L 6M FT	/ ST / FT	5049937	1121 89 8		180
C30 L 200 FT	30 x 15/ ST / FT	5036975	1109 78 2	/100 pc.	178	CPS 4L 6M VA	40 x 22,5/ V2A	5049999	1121 90 1		345
C30 L 2M FS	30 x 15/ ST / FS	5053897	1110 00 2	/100 m	178	CPS 5 G 220 FT	50 x 30/ ST / FT	6191710	6349 40 4	/pc.	180
C30 L 2M FT	30 x 15/ ST / FT	5041771	1109 87 1		179	CPS 5 G 260 FT	50 x 30/ ST / FT	6191772	6349 41 2		180
						CPS 5 G 260 VA	50 x 30/ V2A	6192076	6349 81 1		345
						CPS 5 G 300 FT	50 x 30/ ST / FT	6191833	6349 43 9		180
C30 L 300 FT	30 x 15/ ST / FT	5037033	1109 79 0	/100 pc.	178	CPS 5 G 340 FT	50 x 30/ ST / FT	6191895	6349 44 7		180
						CPS 5 G 340 VA	50 x 30/ V2A	6192199	6349 84 6		345
C30 L 400 FT	30 x 15/ ST / FT	5037095	1109 80 4		178	CPS 5 G 380 FT	50 x 30/ ST / FT	6191956	6349 46 3		180
						CPS 5 G 380 VA	50 x 30/ V2A	6192250	6349 85 4		345
C30 L 500 FT	30 x 15/ ST / FT	5037156	1109 81 2		178						
C30 L 600 FT	30 x 15/ ST / FT	5037217	1109 82 0		178					/100 m	
C30 L 700 FT	30 x 15/ ST / FT	5037279	1109 83 9		178	CPS 5 L 2M FT	50 x 30/ St / FT	5049210	1121 46 4		180
						CPS 5 L 2M VA	50 x 30/ V2A	5049272	1121 48 0		345
C30 L 800 FT	30 x 15/ ST / FT	5037330	1109 84 7		178	CPS 5 L 6M FT	50 x 30/ St / FT	5462491	1121 47 2		180
						CPS 5 L 6M VA	50 x 30/ V2A	5049333	1121 49 9		345
C30 L 900 FT	30 x 15/ ST / FT	5037392	1109 85 5		178					/100 pc.	180
						CPS 5 SK OR	Pastel orange/ PE	5668138	1124 56 1		
				/m							
CGR 50 100 FT	100 4,5/ ST / FT	6013999	6017 43 6		256					/pc.	
CGR 50 100VA4301	100 4,5/ V2A	6012732	6016 23 5		363	DB FT	/ ST / FT	6195671	6356 10 9		140
						DB FT	/ ST / FT	6195671	6356 10 9		321
CGR 50 200 FT	200 4,5/ ST / FT	6014057	6017 44 4		256						
CGR 50 200VA4301	200 4,5/ V2A	6012794	6016 25 1		363	DBL 50 100 FS	100/ ST / FS	6746118	6015 50 6		142
						DBL 50 100 FT	100/ ST / FT	6785414	6015 56 5		142
CGR 50 300 FT	300 4,5/ ST / FT	6295692	6017 45 2		256	DBL 50 100VA4401	100/ V4A	6937455	6015 63 0		344
						DBL 50 100VA4401	100/ V4A	6937455	6015 63 0		385
CGR 50 400 FT	400 4,5/ ST / FT	6014118	6017 46 0		256	DBL 50 100VA4401	100/ V4A	6937455	6015 63 0		393
						DBL 50 150 FS	150/ ST / FS	6746170	6015 51 4		142
CGR 50 50 FT	50 4,5/ ST / FT	6013937	6017 42 8		256	DBL 50 150 FT	150/ ST / FT	6785476	6015 57 3		142
CGR 50 50 VA4301	50 4,5/ V2A	6012671	6016 20 0		363						
						DBL 50 200 FS	200/ ST / FS	6746231	6015 52 2		142
CK 40 100 FT	954/ ST / FT	6007998	6008 30 5	/pc.	307	DBL 50 200 FT	200/ ST / FT	6785537	6015 58 1		142
						DBL 50 200VA4401	200/ V4A	6937516	6015 63 2		344
CK 40 110 FT	1054/ ST / FT	6008056	6008 31 3		307	DBL 50 200VA4401	200/ V4A	6937516	6015 63 2		385
						DBL 50 200VA4401	200/ V4A	6937516	6015 63 2		393
CK 40 120 FT	1154/ ST / FT	6008117	6008 32 1		307						
						DBL 50 300 FS	300/ ST / FS	6746293	6015 53 0		142
CK 40 20 FT	154/ ST / FT	6629718	6008 22 4		307	DBL 50 300 FT	300/ ST / FT	6785599	6015 60 3		142
						DBL 50 300VA4401	300/ V4A	6937578	6015 63 3		344
CK 40 30 FT	254/ ST / FT	6356058	6008 23 2		307	DBL 50 300VA4401	300/ V4A	6937578	6015 63 3		385
						DBL 50 300VA4401	300/ V4A	6937578	6015 63 3		393
CK 40 40 FT	354/ ST / FT	6007639	6008 24 0		307						
						DBL 50 400 FS	400/ ST / FS	6746354	6015 54 9		142
CK 40 50 FT	454/ ST / FT	6007691	6008 25 9		307	DBL 50 400 FT	400/ ST / FT	6785650	6015 61 1		142
						DBL 50 400VA4401	400/ V4A	6937639	6015 63 4		344
CK 40 60 FT	554/ ST / FT	6007752	6008 26 7		307	DBL 50 400VA4401	400/ V4A	6937639	6015 63 4		385
						DBL 50 400VA4401	400/ V4A	6937639	6015 63 4		393
CK 40 70 FT	654/ ST / FT	6007813	6008 27 5		307						
						DBL 50 500 FS	500/ ST / FS	5239154	6015 55 2		142
CK 40 80 FT	754/ ST / FT	6007875	6008 28 3		307	DBL 50 500 FT	500/ ST / FT	5239208	6015 61 4		142
CK 40 90 FT	854/ ST / FT	6007936	6008 29 1		307	DBL 50 600 FS	600/ ST / FS	5239161	6015 55 5		142
						DBL 50 600 FT	600/ ST / FT	5239215	6015 61 7		142
				/100 pc.							
CPS 4 SK OR	Pastel orange/ PE	5668121	1124 55 3		180	DBLG 20 050 FS	50/ ST / FS	6961528	6015 64 6		142
						DBLG 20 050 FS	50/ ST / FS	6961528	6015 64 6		252
						DBLG 20 050 FT	50/ ST / FT	6042845	6015 64 8		142
						DBLG 20 050 FT	50/ ST / FT	6042845	6015 64 8		252
						DBLG 20 100 FS	100/ ST / FS	6961580	6015 65 4		142
CPS 4 SPR 492 FT	492/ ST / FT	6006014	6007 24 4	/pc.	306	DBLG 20 100 FS	100/ ST / FS	6961580	6015 65 4		252
CPS 4 SPR 592 FT	592/ ST / FT	6006076	6007 25 2		306	DBLG 20 100 FT	100/ ST / FT	6042968	6015 65 6		142
CPS 4 SPR 692 FT	692/ ST / FT	6006137	6007 26 0		306	DBLG 20 100 FT	100/ ST / FT	6042968	6015 65 6		252
CPS 4 SPR 792 FT	792/ ST / FT	6006199	6007 27 9		306	DBLG 20 150 FS	150/ ST / FS	6279371	6015 65 8		142
CPS 4 SPR 892 FT	892/ ST / FT	6006250	6007 28 7		306	DBLG 20 150 FS	150/ ST / FS	6279371	6015 65 8		252

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Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
				/pc.						/pc.	
DBLG 20 150 FT	150/ ST / FT	6043088	6015 66 0		142	DBV FS	/ St / FS	5373070	6356 05 5		140
DBLG 20 150 FT	150/ ST / FT	6043088	6015 66 0		252	DBV FS	/ St / FS	5373070	6356 05 5		321
DBLG 20 200 FS	200/ ST / FS	6961641	6015 66 2		142						
DBLG 20 200 FS	200/ ST / FS	6961641	6015 66 2		252	DFAA 050 DD	50 1/ ST / DD	6252138	7131 29 1		231
DBLG 20 200 FT	200/ ST / FT	6043200	6015 66 4		142						
DBLG 20 200 FT	200/ ST / FT	6043200	6015 66 4		252	DFAA 100 DD	100 1/ ST / DD	6252190	7131 30 5		231
DBLG 20 300 FS	300/ ST / FS	6961702	6015 67 0		142	DFAA 100 FS	100 1/ St / FS	6249015	7128 42 8		231
DBLG 20 300 FS	300/ ST / FS	6961702	6015 67 0		252	DFAA 100 VA4301	100 1/ V2A	6257058	7136 90 0		356
DBLG 20 300 FT	300/ ST / FT	6043323	6015 67 2		142						
DBLG 20 300 FT	300/ ST / FT	6043323	6015 67 2		252	DFAA 150 DD	150 1/ ST / DD	6027484	7131 31 0		231
DBLG 20 400 FS	400/ ST / FS	6961764	6015 68 9		142	DFAA 150 FS	150 1/ ST / FS	6526154	7128 43 6		231
DBLG 20 400 FS	400/ ST / FS	6961764	6015 68 9		252						
DBLG 20 400 FT	400/ ST / FT	6043446	6015 69 1		142	DFAA 200 DD	200 1/ ST / DD	6252251	7131 32 1		231
DBLG 20 400 FT	400/ ST / FT	6043446	6015 69 1		252	DFAA 200 FS	200 1/ St / FS	6249077	7128 44 4		231
DBLG 20 500 FS	500/ ST / FS	5239222	6015 69 3		142	DFAA 200 VA4301	200 1/ V2A	6257119	7136 91 9		356
DBLG 20 500 FS	500/ ST / FS	5239222	6015 69 3		252						
DBLG 20 500 FT	500/ ST / FT	5239260	6015 69 5		142	DFAA 300 DD	300 1/ ST / DD	6252312	7131 34 8		231
DBLG 20 500 FT	500/ ST / FT	5239260	6015 69 5		252	DFAA 300 FS	300 1/ St / FS	6249138	7128 46 0		231
DBLG 20 600 FS	600/ ST / FS	5239277	6015 69 7		142	DFAA 300 VA4301	300 1/ V2A	6257171	7136 92 7		356
DBLG 20 600 FS	600/ ST / FS	5239277	6015 69 7		252						
DBLG 20 600 FT	600/ ST / FT	5239284	6015 69 9		142	DFAA 400 DD	400 1,25/ ST / DD	6252374	7131 35 6		231
DBLG 20 600 FT	600/ ST / FT	5239284	6015 69 9		252	DFAA 400 FS	400 1,25/ St / FS	6249190	7128 48 7		231
						DFAA 400 VA4301	400 1,25/ V2A	6257232	7136 93 5		356
DBV 050 S FS	50 0,75/ ST / FS	5047551	7130 80 1		232						
DBV 100 S FS	100 0,75/ ST / FS	5047568	7130 80 5		232	DFAA 500 DD	500 1,25/ ST / DD	6252435	7131 36 4		231
						DFAA 500 FS	500 1,25/ ST / FS	6249251	7128 50 9		231
						DFAA 500 VA4301	500 1,25/ V2A	6257294	7136 94 3		356
DBV 110 100 F FS	100 0,75/ St / FS	5712046	7131 03 0		233						
DBV 110 200 F FS	200 0,75/ St / FS	5712053	7131 03 4		233	DFAA 550 DD	550 1,25/ ST / DD	6252497	7131 37 2		231
DBV 110 300 F FS	300 0,75/ St / FS	5712060	7131 03 8		233	DFAA 550 FS	550 1,25/ ST / FS	6249312	7128 51 7		231
DBV 110 400 F FS	400 0,75/ St / FS	5712077	7131 04 2		233						
DBV 110 500 F FS	500 0,75/ St / FS	5712084	7131 04 6		233	DFAA 600 DD	600 1,25/ ST / DD	6252558	7131 38 0		231
DBV 110 550 F FS	600 0,75/ St / FS	5712091	7131 05 0		233	DFAA 600 FS	600 1,25/ ST / FS	6249374	7128 52 5		231
						DFAA 600 VA4301	600 1,25/ V2A	6257355	7136 97 8		356
DBV 150 S FS	150 0,75/ ST / FS	5047575	7130 80 9		232						
DBV 200 S FS	200 0,75/ ST / FS	5047582	7130 81 3		232	DFAA BKS100 DD	100 4,5/ Al / DD	5079293	7131 45 0		240
						DFAA BKS200 DD	200 4,5/ Al / DD	5079309	7131 45 2		240
DBV 300 S FS	300 0,75/ ST / FS	5047612	7130 81 7		232	DFAA BKS300 DD	300 4,5/ Al / DD	5079316	7131 45 4		240
						DFAA BKS400 DD	400 4,75/ Al / DD	5079323	7131 45 6		240
DBV 35 050 F FS	50 0,75/ St / FS	5711896	7130 76 0		233	DFAA BKS500 DD	500 4,75/ Al / DD	5079354	7131 45 8		240
						DFAA BKS550 DD	550 4,75/ Al / DD	5079361	7131 46 0		240
DBV 35 100 F FS	100 0,75/ St / FS	5711902	7130 76 4		233	DFAA BKS600 DD	600 4,75/ Al / DD	5079378	7131 46 2		240
DBV 35 150 F FS	150 0,75/ St / FS	5711933	7130 76 8		233						
DBV 35 200 F FS	200 0,75/ St / FS	5711940	7130 77 2		233	DFB 45 050 DD	50 1/ ST / DD	6252619	7131 80 1		230
DBV 35 300 F FS	300 0,75/ St / FS	5711957	7130 77 6		233						
DBV 400 S FS	400 0,75/ ST / FS	5047629	7130 82 1		232	DFB 45 100 DD	100 1/ ST / DD	6252671	7131 82 8		230
						DFB 45 100 FS	100 1/ ST / FS	6249855	7128 81 9		230
DBV 500 S FS	500 0,75/ ST / FS	5047636	7130 82 5		232	DFB 45 100VA4301	100 1/ V2A	6253814	7133 90 1		355
DBV 60 050 F FS	50 0,75/ ST / FS	5047674	7130 84 7		233	DFB 45 150 DD	150 1/ ST / DD	6027125	7131 83 6		230
						DFB 45 150 FS	150 1/ ST / FS	6526338	7128 82 7		230
DBV 60 100 F FS	100 0,75/ ST / FS	5047681	7130 85 2		233						
DBV 60 150 F FS	150 0,75/ ST / FS	5047698	7130 85 6		233	DFB 45 200 DD	200 1/ ST / DD	6252732	7131 84 4		230
						DFB 45 200 FS	200 1/ ST / FS	6249916	7128 83 5		230
DBV 60 200 F FS	200 0,75/ ST / FS	5047704	7130 86 0		233	DFB 45 200VA4301	200 1/ V2A	6253876	7133 92 8		355
DBV 60 300 F FS	300 0,75/ ST / FS	5047735	7130 86 4		233						
DBV 60 400 F FS	400 0,75/ ST / FS	5047742	7130 86 8		233	DFB 45 300 DD	300 1/ ST / DD	6252794	7131 86 0		230
DBV 60 500 F FS	500 0,75/ ST / FS	5047759	7130 87 2		233	DFB 45 300 FS	300 1/ ST / FS	6249978	7128 85 1		230
DBV 60 600 F FS	600 0,75/ ST / FS	5047766	7130 87 6		233	DFB 45 300VA4301	300 1/ V2A	6253937	7133 93 6		355
DBV 600 S FS	600 0,75/ ST / FS	5047643	7130 82 9		232						
						DFB 45 400 DD	400 1,25/ ST / DD	6252855	7131 87 9		230
DBV 85 100 F FS	100 0,75/ St / FS	5711964	7130 99 0		233	DFB 45 400 FS	400 1,25/ ST / FS	6250035	7128 88 6		230
DBV 85 200 F FS	200 0,75/ St / FS	5711995	7130 99 4		233	DFB 45 400VA4301	400 1,25/ V2A	6253999	7133 94 4		355
DBV 85 300 F FS	300 0,75/ St / FS	5712008	7130 99 8		233						
DBV 85 400 F FS	400 0,75/ St / FS	5712015	7131 00 2		233	DFB 45 500 DD	500 1,25/ ST / DD	6252916	7131 88 7		230
DBV 85 500 F FS	500 0,75/ St / FS	5712022	7131 00 6		233	DFB 45 500 FS	500 1,25/ ST / FS	6250097	7128 90 8		230
						DFB 45 500VA4301	500 1,25/ V2A	6254057	7133 95 2		355
DBV 85 600 F FS	600 0,75/ St / FS	5712039	7131 01 0		233	DFB 45 550 DD	550 1,25/ ST / DD	6252978	7131 89 5		230
						DFB 45 550 FS	550 1,25/ ST / FS	6250158	7128 91 6		230
						DFB 45 600 DD	600 1,25/ ST / DD	6253036	7131 90 9		230
						DFB 45 600 FS	600 1,25/ ST / FS	6250219	7128 92 4		230
						DFB 45 600VA4301	600 1,25/ V2A	6254118	7133 97 9		355
						DFB 90 050 DD	50 1/ ST / DD	6251179	7130 50 3		230
						DFB 90 100 DD	100 1/ ST / DD	6251230	7130 51 1		230
						DFB 90 100 FS	100 1/ St / FS	6250752	7129 61 0		230
						DFB 90 100VA4301	100 1/ V2A	6254897	7134 90 8		355
						DFB 90 150 DD	150 1/ ST / DD	6015436	7130 53 8		230
						DFB 90 150 FS	150 1/ ST / FS	6526451	7129 62 9		230

Type listing

Structure of the EAN number: Country code **40**

Manufacturer code **1219** (for articles beginning with **0: 1010**)

Individual EAN-C **5647589**

Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
				/pc.						/100 pc.	
DFB 90 200 DD	200 1/ ST / DD	6251292	7130 54 6		230	DIN 128 A M10 G	10,5 18,1-18,1 / ST / G	5302414	3405 10 9		188
DFB 90 200 FS	200 1/ St / FS	6250813	7129 63 7		230	DIN 128 A M12 G	12,5 21,1-21,1 / ST / G	5302476	3405 12 5		188
DFB 90 200VA4301	200 1/ V2A	6254958	7134 91 6		355	DIN 128 A M6 G	6,3 11,8-11,8 / ST / G	5302292	3405 06 0		188
						DIN 128 A M8 G	8,3 14,8-14,8 / ST / G	5302353	3405 08 7		188
DFB 90 300 DD	300 1/ ST / DD	6251353	7130 56 2		230						
DFB 90 300 FS	300 1/ St / FS	6250875	7129 65 3		230	DIN 6798 A M10 G	10,5 18-18 / ST / G	5301752	3404 10 2		188
DFB 90 300VA4301	300 1/ V2A	6255016	7134 92 4		355	DIN 6798 A M12 G	13 20,5-20,5 / ST / G	5301813	3404 12 9		188
						DIN 6798 A M6 G	6,4 11-11 / ST / G	5301639	3404 06 4		188
DFB 90 400 DD	400 1,25/ ST / DD	6251414	7130 58 9		231	DIN 6798 A M8 G	8,4 15-15 / ST / G	5301691	3404 08 0		188
DFB 90 400 FS	400 1,25/ St / FS	6250936	7129 68 8		231						
DFB 90 400VA4301	400 1,25/ V2A	6255078	7134 93 2		355	DIN 934 M10 G	10 8,4/ ST / G	5298212	3400 10 7		188
						DIN 934 M10 VA	10 8,4/ V2A	5297796	3397 10 6		346
DFB 90 500 DD	500 1,25/ ST / DD	6251476	7130 60 0		231	DIN 934 M12 G	12 10,8/ ST / G	5298274	3400 12 3		188
DFB 90 500 FS	500 1,25/ ST / FS	6250998	7129 71 8		231	DIN 934 M12 VA	12 10,8/ V2A	5297857	3397 11 4		346
DFB 90 500VA4301	500 1,25/ V2A	6255139	7134 94 0		355	DIN 934 M4 G	4 3,2/ ST / G	5297970	3400 04 2		188
DFB 90 550 DD	550 1,25/ ST / DD	6251537	7130 61 9		231	DIN 934 M5 G	5 4,7/ ST / G	5298038	3400 05 0		188
DFB 90 550 FS	550 1,25/ ST / FS	6251056	7129 72 6		231	DIN 934 M6 G	6 5,2/ ST / G	5298090	3400 06 9		188
						DIN 934 M6 VA	6 5,2/ V2A	5297673	3397 06 8		346
DFB 90 600 DD	600 1,25/ ST / DD	6251599	7130 62 7		231	DIN 934 M8 G	8 6,8/ ST / G	5298151	3400 08 5		188
DFB 90 600 FS	600 1,25/ ST / FS	6251117	7129 73 4		231	DIN 934 M8 VA	8 6,8/ V2A	5297734	3397 08 4		346
DFB 90 600VA4301	600 1,25/ V2A	6255191	7134 96 7		355						
DFB BKS90100	100 4,5/ Al / DD	5079187	7130 74 1		240	DIN440 11 F	11 34-34 / St / F	6480074	6408 72 9		187
DFB BKS90200	200 4,5/ Al / DD	5079194	7130 74 3		240	DIN440 14 F	13,5 44-44 / St / F	6480135	6408 73 7		187
DFB BKS90300	300 4,5/ Al / DD	5079200	7130 74 5		240						
DFB BKS90400	400 4,75/ Al / DD	5079231	7130 74 7		240	DIN440 7 F	6,6 22-22 / St / F	6479955	6408 70 2		187
DFB BKS90500	500 4,75/ Al / DD	5079248	7130 74 9		240						
DFB BKS90550	550 4,75/ Al / DD	5079255	7130 75 1		240	DIN440 9 F	9 28-28 / St / F	6480012	6408 71 0		187
DFB BKS90600	600 4,75/ Al / DD	5079262	7130 75 3		240						
DFK 100 DD	100 1/ ST / DD	6251711	7131 08 9		232	DIN934 M10 F	10 8,4/ ST / F	5298519	3400 36 0		189
DFK 100 FS	100 1/ ST / FS	6249435	7128 61 4		232	DIN934 M12 F	12 10,8/ ST / F	5298571	3400 37 9		189
						DIN934 M6 F	6 5,2/ ST / F	5298397	3400 34 4		189
DFK 150 DD	150 1/ ST / DD	6290413	7131 09 7		232	DIN934 M8 F	8 6,8/ ST / F	5298458	3400 35 2		189
DFK 150 FS	150 1/ ST / FS	6845651	7128 62 2		232						
DFK 200 DD	200 1/ ST / DD	6251773	7131 10 0		232					/pc.	
DFK 200 FS	200 1/ ST / FS	6249497	7128 63 0		232	DKL 110 VA4310	120,9/ V2A	6517213	6065 55 4		229
DFK 300 DD	300 1/ ST / DD	6251834	7131 12 7		232	DKL 35 VA4310	50,9/ V2A	6517930	6065 50 3		229
DFK 300 FS	300 1/ ST / FS	6249558	7128 65 7		232						
						DKL 45 VA4310	60,9/ V2A	6517879	6065 51 1		229
DFK 400 DD	400 1,25/ ST / DD	6251896	7131 14 3		232	DKL 60 VA4310	75,9/ V2A	6517817	6065 53 8		229
DFK 400 FS	400 1,25/ ST / FS	6249619	7128 67 3		232						
DFK 500 DD	500 1,25/ ST / DD	6251957	7131 17 8		232	DKL 85 VA4310	95,9/ V2A	6517756	6065 54 6		229
DFK 500 FS	500 1,25/ ST / FS	6249671	7128 70 3		232					/m	
DFK 550 DD	550 1,25/ ST / DD	6252015	7131 18 6		232	DKS 610 FS	100 1/ ST / FS	6069736	6085 01 6		208
DFK 550 FS	550 1,25/ ST / FS	6249732	7128 71 1		232	DKS 610 FT	100 1/ ST / FT	6070091	6085 32 6		208
						DKS 610 VA4301	100 0,8/ V2A	6070459	6085 60 1		351
DFK 600 DD	600 1,25/ ST / DD	6252077	7131 19 4		232	DKS 610 VA4571	100 0,8/ V4A	6181933	6085 66 8		388
DFK 600 FS	600 1,25/ ST / FS	6249794	7128 73 8		232						
						DKS 620 FS	200 1/ ST / FS	6069798	6085 03 2		208
DFT 050 DD	50 1/ ST / DD	6250271	7129 30 0		231	DKS 620 FT	200 1/ ST / FT	6070152	6085 34 2		208
						DKS 620 VA4301	200 0,8/ V2A	6070510	6085 62 8		351
DFT 100 DD	100 1/ ST / DD	6250332	7129 31 9		231	DKS 620 VA4571	200 0,8/ V4A	6343218	6085 67 2		388
DFT 100 FS	100 1/ ST / FS	6248599	7128 21 5		231						
						DKS 630 FS	300 1/ ST / FS	6069859	6085 05 9		208
DFT 150 DD	150 1/ ST / DD	6015313	7129 32 7		231	DKS 630 FT	300 1/ ST / FT	6070213	6085 36 9		208
DFT 150 FS	150 1/ ST / FS	6526031	7128 22 3		231	DKS 630 VA4301	300 0,8/ V2A	6070572	6085 63 6		351
						DKS 630 VA4571	300 1/ V4A	6955510	6085 67 3		388
DFT 200 DD	200 1/ ST / DD	6250394	7129 33 5		231						
DFT 200 FS	200 1/ ST / FS	6248650	7128 23 1		231	DKS 640 FS	400 1,5/ ST / FS	6069910	6085 20 2		208
						DKS 640 FT	400 1,5/ ST / FT	6070275	6085 51 2		208
DFT 300 DD	300 1/ ST / DD	6250455	7129 35 1		231	DKS 640 VA4301	400 1/ V2A	6070633	6085 64 4		351
DFT 300 FS	300 1/ ST / FS	6248711	7128 26 6		231	DKS 640 VA4571	400 1/ V4A	5020998	6085 67 5		388
DFT 400 DD	400 1,25/ ST / DD	6250516	7129 38 6		232	DKS 650 FS	500 1,5/ ST / FS	6069972	6085 22 9		208
DFT 400 FS	400 1,25/ ST / FS	6248773	7128 28 2		232	DKS 650 FT	500 1,5/ ST / FT	6070336	6085 53 9		208
						DKS 650 VA4301	500 1/ V2A	6070695	6085 65 2		351
DFT 500 DD	500 1,25/ ST / DD	6250578	7129 40 8		232	DKS 650 VA4571	500 1/ V4A	5021001	6085 67 7		388
DFT 500 FS	500 1,25/ ST / FS	6248834	7128 30 4		232						
						DKS 660 FS	600 1,5/ ST / FS	6070039	6085 24 5		208
DFT 550 DD	550 1,25/ ST / DD	6250639	7129 41 6		232	DKS 660 FT	600 1,5/ ST / FT	6070398	6085 55 5		208
DFT 550 FS	550 1,25/ ST / FS	6248896	7128 31 2		232	DKS 660 VA4301	600 1/ V2A	6070756	6085 66 0		351
						DKS 660 VA4571	600 1/ V4A	5021032	6085 67 9		388
DFT 600 DD	600 1,25/ ST / DD	6250691	7129 42 4		232						
DFT 600 FS	600 1,25/ ST / FS	6248957	7128 32 0		232	DKS 810 FT	100 1/ ST / FT	6071173	6086 47 0		216

Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
DKS 820 FT	200 1/ ST / FT	6071234	6086 49 7	/m	216	DRL 500 FS	500 1,25/ St / FS	6058518	6052 50 9	/m	275
DKS 830 FT	300 1/ ST / FT	6071296	6086 51 9		216	DRL 500 FS	500 1,25/ St / FS	6058518	6052 50 9		229
DKS 840 FT	400 1,5/ ST / FT	6071357	6086 65 9		216	DRL 500 VA4301	500 1,25/ V2A	6059119	6052 95 9		367
DKS 850 FT	500 1,5/ ST / FT	6071418	6086 67 5		216	DRL 500 VA4301	500 1,25/ V2A	6059119	6052 95 9		355
DKS 860 FT	600 1,5/ ST / FT	6071470	6086 69 1		216	DRL 550 DD	550 1,25/ ST / DD	6039135	6052 72 1		229
					216	DRL 550 FS	550 1,25/ St / FS	6058631	6052 56 8		229
DKU 120 VA4310	/ V2A	6617050	6065 61 0	/100 pc.	229	DRL 600 DD	600 1,25/ ST / DD	6039197	6052 72 4		275
DKU 120 VA4310	/ V2A	6617050	6065 61 0		254	DRL 600 DD	600 1,25/ ST / DD	6039197	6052 72 4		229
DKU 120 VA4310	/ V2A	6617050	6065 61 0		327						
DKU 120 VA4310	/ V2A	6617050	6065 61 0		354	DRL 600 FS	600 1,25/ St / FS	6058754	6052 60 6		275
DKU 120 VA4310	/ V2A	6617050	6065 61 0		362	DRL 600 FS	600 1,25/ St / FS	6058754	6052 60 6		229
DKU 120 VA4310	/ V2A	6617050	6065 61 0		390						
DKU 60 VA4310	/ V2A	6441372	6065 60 0		229	DRL 600 VA4301	600 1,25/ V2A	6059171	6052 97 5		367
DKU 60 VA4310	/ V2A	6441372	6065 60 0		254	DRL 600 VA4301	600 1,25/ V2A	6059171	6052 97 5		355
DKU 60 VA4310	/ V2A	6441372	6065 60 0		327	DRL AB 230 FT SO	3000 200/ ST / FT	5063223	7195 25 3		303
DKU 60 VA4310	/ V2A	6441372	6065 60 0		354						
DKU 60 VA4310	/ V2A	6441372	6065 60 0		362	DRL AB 330 FT SO	3000 300/ ST / FT	5063230	7195 25 7		303
DKU 60 VA4310	/ V2A	6441372	6065 60 0		390						
				/m		DRL AB 430 FT SO	3000 400/ ST / FT	5063247	7195 26 1		303
DRL 050 DD	50 0,75/ ST / DD	6038718	6052 70 0		229	DRL AB 530 FT SO	3000 500/ ST / FT	5063278	7195 26 5		303
DRL 050 FS	50 0,75/ St / FS	6057856	6052 05 3		229	DRL AB 630 FT SO	3000 600/ ST / FT	5063285	7195 26 9		303
DRL 075 FS	75 0,75/ St / FS	6385577	6052 02 9		318	DRL BKS10 ALU	100 2,5/ Al	5078784	6052 75 0		240
DRL 075 FS	75 0,75/ St / FS	6385577	6052 02 9		229	DRL BKS20 ALU	200 2,5/ Al	5078814	6052 75 2		240
DRL 100 DD	100 0,75/ ST / DD	6038770	6052 70 3		229	DRL BKS30 ALU	300 2,5/ Al	5078821	6052 75 5		240
DRL 100 FS	100 0,75/ St / FS	6057979	6052 09 6		229	DRL BKS40 ALU	400 2,5/ Al	5078838	6052 75 7		240
DRL 100 VA4301	100 1/ V2A	6058877	6052 87 8		355	DRL BKS50 ALU	500 2,5/ Al	5078845	6052 75 9		240
DRL 150 DD	150 1/ ST / DD	6038831	6052 70 6		229	DRL BKS55 ALU	550 2,5/ Al	5078968	6052 76 1		240
DRL 150 FS	150 1/ St / FS	6058099	6052 15 0		229	DRL BKS60 ALU	600 2,5/ Al	5078999	6052 76 3		240
										/pc.	
DRL 200 DD	200 1/ ST / DD	6038893	6052 70 9		275	DRLM 316 DD	/ ST / DD	6333134	6222 36 6		230
DRL 200 DD	200 1/ ST / DD	6038893	6052 70 9		229	DRLM 316 DD	/ ST / DD	6333134	6222 36 6		276
						DRLM 316 VA4301	/ V2A	6167173	6222 35 8		276
DRL 200 FS	200 1/ St / FS	6058150	6052 20 7		275	DRLM 316 VA4301	/ V2A	6167173	6222 35 8		355
DRL 200 FS	200 1/ St / FS	6058150	6052 20 7		229	DRLM 316 VA4301	/ V2A	6167173	6222 35 8		367
										/m	
DRL 200 VA4301	200 1/ V2A	6058938	6052 89 4		367	DRLU 050 DD	50 0,75/ ST / DD	6657490	6052 64 0		229
DRL 200 VA4301	200 1/ V2A	6058938	6052 89 4		355	DRLU 050 DD	50 0,75/ ST / DD	6657490	6052 64 0		254
DRL 300 DD	300 1/ ST / DD	6038954	6052 71 2		275	DRLU 050 FS	50 0,75/ St / FS	6029655	6052 05 6		228
DRL 300 DD	300 1/ ST / DD	6038954	6052 71 2		229	DRLU 050 FS	50 0,75/ St / FS	6029655	6052 05 6		254
DRL 300 FS	300 1/ St / FS	6058273	6052 30 4		275	DRLU 050 VA4301	50 1/ V2A	6031818	6052 82 1		354
DRL 300 FS	300 1/ St / FS	6058273	6052 30 4		229	DRLU 050 VA4301	50 1/ V2A	6031818	6052 82 1		362
DRL 300 VA4301	300 1/ V2A	6058990	6052 90 8		367	DRLU 100 DD	100 0,75/ ST / DD	6657551	6052 64 3		229
DRL 300 VA4301	300 1/ V2A	6058990	6052 90 8		355	DRLU 100 DD	100 0,75/ ST / DD	6657551	6052 64 3		254
				/pc.		DRLU 100 FS	100 0,75/ St / FS	6029716	6052 10 3		228
DRL 311 2 FT	/ ST / FT	6064519	6065 14 7		230	DRLU 100 FS	100 0,75/ St / FS	6029716	6052 10 3		254
DRL 311 FT	/ ST / FT	6064335	6065 00 7		230						
				/m		DRLU 100 VA4301	100 1/ V2A	6031931	6052 82 4		354
DRL 400 DD	400 1/ ST / DD	6039012	6052 71 5		275	DRLU 100 VA4301	100 1/ V2A	6031931	6052 82 4		362
DRL 400 DD	400 1/ ST / DD	6039012	6052 71 5		229	DRLU 100 VA4571	100 1/ V4A	5021124	6052 99 1		390
DRL 400 FS	400 1/ St / FS	6058396	6052 40 1		275	DRLU 150 DD	150 0,75/ ST / DD	6657612	6052 64 7		229
DRL 400 FS	400 1/ St / FS	6058396	6052 40 1		229	DRLU 150 DD	150 0,75/ ST / DD	6657612	6052 64 7		254
DRL 400 VA4301	400 1/ V2A	6059058	6052 93 2		367	DRLU 150 FS	150 0,75/ St / FS	6030019	6052 15 3		228
DRL 400 VA4301	400 1/ V2A	6059058	6052 93 2		355	DRLU 150 FS	150 0,75/ St / FS	6030019	6052 15 3		254
DRL 500 DD	500 1,25/ ST / DD	6039074	6052 71 8		275	DRLU 150 VA4301	150 1/ V2A	6031993	6052 82 8		354
DRL 500 DD	500 1,25/ ST / DD	6039074	6052 71 8		229	DRLU 150 VA4301	150 1/ V2A	6031993	6052 82 8		362
						DRLU 200 DD	200 1/ ST / DD	6657674	6052 65 0		229

Type listing

Structure of the EAN number: Country code **40**

Manufacturer code **1219** (for articles beginning with **0: 1010**)

Individual EAN-C **5647589**

Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
DRLU 200 DD	200 1/ ST / DD	6657674	6052 65 0	/m	254	DSK 61 FT	/ St / FT	6202874	6416 51 9	/pc.	156
DRLU 200 FS	200 1/ St / FS	6030071	6052 21 0		228	DSK 61 VA4301	/ V2A	6202935	6416 52 7		341
DRLU 200 FS	200 1/ St / FS	6030071	6052 21 0		254					/m	
DRLU 200 VA4301	200 1/ V2A	6032051	6052 83 1		354	EKS 610 FS	100 2/ St / FS	6542659	6056 14 8		205
DRLU 200 VA4301	200 1/ V2A	6032051	6052 83 1		362	EKS 610 FT	100 2/ ST / FT	6333677	6056 77 6		205
DRLU 200 VA4571	200 1/ V4A	5021155	6052 99 3		390	EKS 620 FS	200 2/ St / FS	6114672	6056 22 9		205
DRLU 300 DD	300 1/ ST / DD	6336678	6052 65 6		229	EKS 620 FT	200 2/ ST / FT	6333738	6056 79 2		205
DRLU 300 DD	300 1/ ST / DD	6336678	6052 65 6		254	EKS 630 FS	300 2/ St / FS	6389834	6056 32 6		205
DRLU 300 FS	300 1/ St / FS	6031399	6052 30 7		228	EKS 630 FT	300 2/ ST / FT	6333790	6056 80 6		205
DRLU 300 FS	300 1/ St / FS	6031399	6052 30 7		254	EKS 640 FS	400 2/ St / FS	6625215	6056 42 3		205
DRLU 300 VA4301	300 1/ V2A	6032174	6052 83 4		354	EKS 640 FT	400 2/ ST / FT	6333493	6056 97 0		205
DRLU 300 VA4301	300 1/ V2A	6032174	6052 83 4		362	EKS 650 FS	500 2/ St / FS	6625277	6056 52 0		205
DRLU 300 VA4571	300 1/ V4A	5021162	6052 99 4		390	EKS 650 FT	500 2/ ST / FT	6333554	6056 98 9		205
DRLU 400 DD	400 1/ ST / DD	6336739	6052 66 2		229	EKS 660 FS	600 2/ St / FS	6389896	6056 62 8		205
DRLU 400 DD	400 1/ ST / DD	6336739	6052 66 2		254	EKS 660 FT	600 2/ ST / FT	6333615	6056 99 7		205
DRLU 400 FS	400 1/ St / FS	6031511	6052 40 5		228	ELB-L 20 FS	200 1/ ST / FS	6420735	6103 23 5		275
DRLU 400 FS	400 1/ St / FS	6031511	6052 40 5		254	ELB-L 20 FS	200 1/ ST / FS	6420735	6103 23 5		293
DRLU 400 VA4301	400 1/ V2A	6032235	6052 83 7		354	ELB-L 20 FT	200 1/ ST / FT	6289455	6103 42 1		275
DRLU 400 VA4301	400 1/ V2A	6032235	6052 83 7		362	ELB-L 20 FT	200 1/ ST / FT	6289455	6103 42 1		293
DRLU 400 VA4571	400 1/ V4A	5021216	6052 99 5		390	ELB-L 30 FS	300 1/ ST / FS	6420858	6103 25 1		275
DRLU 500 DD	500 1,25/ ST / DD	6336791	6052 66 8		229	ELB-L 30 FS	300 1/ ST / FS	6420858	6103 25 1		293
DRLU 500 DD	500 1,25/ ST / DD	6336791	6052 66 8		254	ELB-L 30 FT	300 1/ ST / FT	6308651	6103 44 8		275
DRLU 500 FS	500 1,25/ St / FS	6031634	6052 51 2		228	ELB-L 30 FT	300 1/ ST / FT	6308651	6103 44 8		293
DRLU 500 FS	500 1,25/ St / FS	6031634	6052 51 2		254	ELB-L 40 FS	400 1/ ST / FS	6420971	6103 28 6		275
DRLU 500 VA4301	500 1,25/ V2A	6032297	6052 84 1		354	ELB-L 40 FS	400 1/ ST / FS	6420971	6103 28 6		293
DRLU 500 VA4301	500 1,25/ V2A	6032297	6052 84 1		362	ELB-L 40 FT	400 1/ ST / FT	6308590	6103 45 6		275
DRLU 500 VA4571	500 1,25/ V4A	5021223	6052 99 6		390	ELB-L 40 FT	400 1/ ST / FT	6308590	6103 45 6		293
DRLU 550 DD	550 1,25/ ST / DD	6336852	6052 67 1		229	ELB-L 50 FS	500 1/ ST / FS	6421091	6103 31 6		275
DRLU 550 FS	550 1,25/ St / FS	6031696	6052 57 1		228	ELB-L 50 FS	500 1/ ST / FS	6421091	6103 31 6		293
						ELB-L 50 FT	500 1/ ST / FT	6308538	6103 46 4		275
						ELB-L 50 FT	500 1/ ST / FT	6308538	6103 46 4		293
						ELB-L 60 FS	600 1/ ST / FS	6421213	6103 33 2		275
DRLU 600 DD	600 1,25/ ST / DD	6336913	6052 67 4		254	ELB-L 60 FS	600 1/ ST / FS	6421213	6103 33 2		293
DRLU 600 DD	600 1,25/ ST / DD	6336913	6052 67 4		229	ELB-L 60 FT	600 1/ ST / FT	6308477	6103 48 0		275
DRLU 600 FS	600 1,25/ St / FS	6031757	6052 60 9		254	ELB-L 60 FT	600 1/ ST / FT	6308477	6103 48 0		293
DRLU 600 FS	600 1,25/ St / FS	6031757	6052 60 9		228	ELB-L20 VA4301	200 3000/ V2A	5037354	6103 61 4		371
DRLU 600 VA4301	600 1,25/ V2A	6032358	6052 84 4		354	ELB-L30 VA4301	300 3000/ V2A	5037361	6103 61 8		371
DRLU 600 VA4301	600 1,25/ V2A	6032358	6052 84 4		362	ELB-L40 VA4301	400 3000/ V2A	5037378	6103 62 2		371
DRLU 600 VA4571	600 1,25/ V4A	5021247	6052 99 8		390	ELB-L50 VA4301	500 3000/ V2A	5037385	6103 62 6		371
						ELB-L60 VA4301	600 3000/ V2A	5037415	6103 63 0		371
DS 4 FS	/ St / FS	6202997	6416 55 1	/pc.	148					/100 pc.	
DS 4 FT	/ ST / FT	6555611	6416 58 6		148	FAZ II 10 10 GS	M10 95/ St / G	5888499	3498 54 9		191
DS 4 VA4301	/ V2A / FT	5617884	6416 59 4		335	FAZ II 10 100	M10 185/ St / G	5049500	3498 59 7		191
DSK 25 FT	/ St / FT	6229277	6416 44 6		150	FAZ II 10 30	M10 115/ St / G	5888550	3498 58 1		191
DSK 25 VA4301	/ V2A	5706045	6416 44 8		337	FAZ II 10/10GS V	M 10 90/ V4A	5692713	3498 82 4		347
DSK 25 VA4571	25/ V4A	5618485	6416 45 0		381	FAZ II 10/10GS V	M 10 90/ V4A	5692713	3498 82 4		386
DSK 45 FT	/ St / FT	6202812	6416 50 0		153	FAZ II 10/50 V4A	M10 115/ V4A	5688808	3498 83 5		347
DSK 45 FT	/ St / FT	6202812	6416 50 0		157	FAZ II 10/50 V4A	M10 115/ V4A	5688808	3498 83 5		386
DSK 45 VA4301	/ V2A	6202751	6416 48 9		339	FAZ II 12 10	M12 110/ St / G	5888611	3498 65 4		191
DSK 45 VA4301	/ V2A	6202751	6416 48 9		342	FAZ II 12/10 VA	M12 103/ V4A	5692652	3498 85 9		347
DSK 45 VA4571	/ V4A	6818235	6416 46 2		383	FAZ II 12/10 VA	M12 103/ V4A	5692652	3498 85 9		386
DSK 47 FT	/ St / FT	6894253	6416 50 4		154	FAZ II 8 10 GS	M8 77/ St / G	5888437	3498 50 6		191
DSK 47 VA4301	/ V2A / blk	5018346	6416 50 7		339	FAZ II 8 30 GS	M8 97/ St / G	5504252	3498 48 4		191
DSK 47 VA4571	/ V4A / blk	5018407	6416 51 1		383	FAZ II 810VA4401	M8 77/ V4A	5706076	3498 50 9		347
						FAZ II 810VA4401	M8 77/ V4A	5706076	3498 50 9		386
						FAZ II 830VA4401	M8 97/ V4A	5706069	3498 48 7		347
						FAZ II 830VA4401	M8 97/ V4A	5706069	3498 48 7		386
						FCM F	M6 x 12/ St / F	5438519	6424 54 8		186

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FESP 50 5	3000 5/ ST	6239719	7104 36 7	/m	182	FRS 8X16 F 5.6	M8 x 16/ St / F	6201198	6406 93 9	/100 pc.	186
FESP L 50 4 BK	3000 4/ ST	6239832	7104 96 0		181	FRS 8X16 F 8.8	M8 x 16/ St / F	6201259	6406 96 3		186
FESP Q 50 4 BK	3000 4/ ST	6239771	7104 66 9			FRS 8X16 VA4301	M8 x 16 16/ V2A	6200412	6406 69 6		346
					182	FRS 8X20 F	M8 x 20/ St / F	6201310	6406 97 1		186
						FRS 8X20 VA4301	M8 x 20 20/ V2A	6200719	6406 80 7		346
FH II 18X80	M12 120/ ST / G	5489139	3498 74 3	/100 pc.	191	FRS 8X25 F	M8 x 25/ St / F	6201372	6406 99 8		186
FHY M10	M10 10/ St / G	5599111	3498 76 4		192	FRS 8X25 VA4301	M8 x 25 25/ V2A	6200771	6406 81 5		346
FHY M8	M8 8/ St / G	5598930	3498 76 0		192	FRS 8X35 F	M8 x 35/ St / F	6201433	6407 04 8		186
FIS A M10X110	110 10/ St / G	5714316	3488 30 6		193	FRS 8X35 VA4301	M8 x 35 35/ V2A	6200832	6406 82 3		346
FIS A M10X130	130 10/ St / G	5437390	3488 30 8		193	FRSB 6X12 F	M6 x 12/ St / F	6199815	6406 12 2		331
FIS A M12X120	120 12/ St / G	5437406	3488 31 2		193	FRSB 6X12 F	M6 x 12/ St / F	6199815	6406 12 2		186
FIS A M6X70	70 6/ St / G	5437376	3488 29 2		193	FRSB 6X12 VA4301	M6 x 12/ V2A	6077595	6406 13 8		346
FIS A M8X90	90 8/ St / G	5437383	3488 29 8		193	FRSB 6X12 VA4301	M6 x 12 12/ V2A	6200238	6406 52 1		346
					193	FRSB 6X12 VA4301	M6 x 12/ V2A	6077595	6406 13 8		377
					193	FRSB 6X12 VA4401	M6 x 12 12/ V4A	6078370	6406 14 2		385
FIS AK	Red	5318910	3488 52 7	/pc.	193	FRSB 6X12 VZ F	M6 x 12/ St / F	5059585	6406 12 5		186
					193	FRSB 6X12 VZ G	M6 x 12/ ST / G	5059561	6406 13 3		186
				/100 pc.	193	FRSB 6X12 VZ G	M6 x 12/ ST / G	6563111	6406 13 0		186
FIS H 12X50 K	12 50/ PP	5437437	3488 45 2		193	FRSB 6X15 F	M6 x 15/ St / F	6199877	6406 15 7		331
FIS H 12X85 K	12 85/ PP	5437444	3488 46 4		193	FRSB 6X15 F	M6 x 15/ St / F	6199877	6406 15 7		186
FIS H 16X85 K	16 75/ PP	5714255	3488 46 2		193	FRSB 6X16 VA4301	M6 x 16/ V2A	6077717	6406 18 9		346
FIS H 20X85 K	20 85/ PP	5437451	3488 46 8		193	FRSB 6X16 VA4301	M6 x 16 15/ V2A	6200290	6406 55 6		346
					193	FRSB 6X16 VA4301	M6 x 16/ V2A	6077717	6406 18 9		377
					193	FRSB 6X16 VA4401	M6 x 16 16/ V4A	6078431	6406 19 3		385
FIS PBB	15 1/ St	5437499	3488 52 5	/pc.	193	FRSB 6X20 F	M6 x 20/ St / F	6199990	6406 20 3		331
					193	FRSB 6X20 F	M6 x 20/ St / F	6199990	6406 20 3		186
				/100 pc.	193	FRSB 6X20 G	M6 x 20/ ST / G	6616152	6406 18 1		186
FIS PBZ	/ PP	5437468	3488 51 5		193	FRSB 6X20 VA4301	M6 x 20 20/ V2A	6200351	6406 60 2		346
FIS V 360 S		5319276	3488 40 3	/pc.	193	FRSB 6X30 F	M6 x 30/ St / F	5045243	6406 90 7		186
FNA II 6X30 M6/5	M6 6/ ST / G	5461890	3498 42 5	/100 pc.	191	FZEA II 10X40 G	M8 10/ ST / G	5454038	3492 03 6		191
FNA II 6X30/5	15 6/ ST / G	5693192	3498 46 8		191	FZEA II 10X40 VA	M8 10/ V4A	5025177	3492 14 5		347
					191	FZEA II 10X40 VA	M8 10/ V4A	5025177	3492 14 5		386
FRS 10X20 F	M10 x 20/ St / F	6201730	6407 47 1		186	FZEA II 12X40 G	M10 12/ ST / G	5454090	3492 06 0		191
FRS 10X20 VA4301	M10 x 20 20/ V2A	6200894	6406 86 6		346	FZEA II 12X40 VA	M10 12/ V4A	5025184	3492 15 0		347
FRS 10X20 VA4401	M10 x 20 20/ V4A	6822072	6406 87 0		381	FZEA II 12X40 VA	M10 12/ V4A	5025184	3492 15 0		386
FRS 10X20 VA4401	M10 x 20 20/ V4A	6822072	6406 87 0		386	FZEA II 14X40 G	M12 14/ ST / G	5454151	3492 09 5		191
FRS 10X20SVA4401	M10 x 20 20/ V4A	6437894	6406 87 2		386	FZED 10X40 G	/ ST / G	5454212	3492 62 1	/pc.	191
FRS 10X25 F	M10 x 25/ St / F	6201792	6407 52 8		186	FZED 10X40 G	/ ST / G	5454212	3492 62 1		347
FRS 10X25 F 8.8	M10 x 25/ St / F	6201914	6407 56 0		151	FZED 12X40 G	/ ST / G	5454274	3492 66 4		191
FRS 10X25 F 8.8	M10 x 25/ St / F	6201914	6407 56 0		154	FZED 12X40 G	/ ST / G	5454274	3492 66 4		347
FRS 10X25 F 8.8	M10 x 25/ St / F	6201914	6407 56 0		186	FZED 14X40 G	/ ST / G	5454335	3492 69 9		191
FRS 10X25 F TPS	M10 x 25/ St / F	6201853	6407 53 6		148	FZUB 10X40	10 10/ ST	5454397	3492 33 8		191
FRS 10X25 F TPS	M10 x 25/ St / F	6201853	6407 53 6		186	FZUB 10X40	10 10/ ST	5454397	3492 33 8		347
FRS 10X25 VA4301	M10 x 25 25/ V2A	6200474	6406 71 8		337	FZUB 12X40	12 10/ ST	5454458	3492 36 2		191
FRS 10X25 VA4301	M10 x 25 25/ V2A	6200474	6406 71 8		339	FZUB 12X40	12 10/ ST	5454458	3492 36 2		347
FRS 10X25 VA4301	M10 x 25 25/ V2A	6200474	6406 71 8		346	FZUB 14X40	14 10/ ST	5454519	3492 39 7		191
FRS 10X30 F	M10 x 30/ St / F	6201976	6407 57 9		186	GEV 36 FT	/ ST / FT	6013272	6016 72 3		251
FRS 10X30 VA4301	M10 x 30 30/ V2A	6200535	6406 72 6		346	GEV 36 G	/ St / G	6307876	6016 71 5		251
FRS 12X25 F	M12 x 25/ St / F	6200054	6406 25 4		158	GEV 36 VA4301	/ V2A	6013333	6016 73 1		361
FRS 12X25 F	M12 x 25/ St / F	6200054	6406 25 4		186	GEV 36 VA4401 SP	/ V4A	6120253	6016 76 4		393
FRS 12X25 VA4301	M12 x 25 25/ V2A	6200597	6406 75 0		341	G-GRM 125 75 FT	75 125/ St / FT	5686415	6005 52 6	/m	255
FRS 12X25 VA4301	M12 x 25 25/ V2A	6200597	6406 75 0		346	G-GRM 125 75 G	75 125/ St / G	5686453	6005 54 1		255
FRS 12X25 VA4401	M12 x 25 25/ V4A	6064328	6406 78 5		386	G-GRM 125 75 VA	75 125/ V2A	5686491	6005 55 6		359
FRS 12X30 F	M12 x 30/ St / F	6200115	6406 27 0		186	G-GRM 150 100 FT	100 155/ St / FT	5686422	6005 52 9		255
FRS 12X30 VA4301	M12 x 30 30/ V2A	6200658	6406 76 9		346						
FRS 6X12 VA4401	M6 x 12 12/ V4A	6291311	6406 56 4		386						
FRS 6X16 VA4401	M6 x 16 16/ V4A	6817573	6406 58 0		386						
FRS 6X20 VA4401	M6 x 20 20/ V4A	6603077	6406 61 0		386						

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Structure of the EAN number: Country code **40**

Manufacturer code **1219** (for articles beginning with **0: 1010**)

Individual EAN-C **5647589**

Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
G-GRM 150 100 G	100 155/ St / G	5686460	6005 54 4	/m	255	GMS 370 VA4401	370/ V4A	6952212	6015 42 0	/pc.	362
	100 155/ V2A	5686507	6005 55 9		359	GMS 370 VA4401	370/ V4A	6952212	6015 42 0		393
G-GRM 50 50 FT	55 55/ St / FT	5686392	6005 52 0		255	GMS 470 FS	470/ ST / FS	6941056	6015 40 6		252
						GMS 470 VA4401	470/ V4A	6952274	6015 42 1		252
						GMS 470 VA4401	470/ V4A	6952274	6015 42 1		362
G-GRM 50 50 G	55 55/ St / G	5686439	6005 53 5		255	GMS 470 VA4401	470/ V4A	6952274	6015 42 1		393
G-GRM 50 50 VA	55 55/ V2A	5686477	6005 55 0		358						
G-GRM 75 50 FT	53 73/ St / FT	5686408	6005 52 3		255	GMS 570 FS	570/ ST / FS	6941117	6015 40 8		252
						GMS 570 VA4401	570/ V4A	6952335	6015 42 2		252
G-GRM 75 50 G	53 73/ St / G	5686446	6005 53 8		255	GMS 570 VA4401	570/ V4A	6952335	6015 42 2		362
G-GRM 75 50 VA	53 73/ V2A	5686484	6005 55 3		358	GMS 570 VA4401	570/ V4A	6952335	6015 42 2		393
GKB 34 G	/ St / G	5694052	6016 67 4	/pc.	250	GP 15 28 FT	/ ST / FT	6296354	6357 00 8		328
						GP 31 28 FT	/ ST / FT	6296415	6357 01 6		328
GKB 34 VA	/ V2A	5694069	6016 67 6		360						
GKS 34 FT	/ ST / FT	6013395	6016 82 0		250	GR BS	450 3-6,0 / ST	6931330	6017 70 0		254
GKS 34 FT	/ ST / FT	6013395	6016 82 0		257						
GKS 34 G	/ ST / G	7261436	6016 85 5		250	GRB 90 110 FT	100 3,9/ ST / FT	6002054	6002 30 7		249
						GRB 90 110 G	100 3,9/ St / G	5456230	6002 37 0		249
GKS 34 VA4301	/ V2A	6013456	6016 83 9		360	GRB 90 115 FT	150 3,9/ ST / FT	6027361	6002 31 1		249
GKS 34 VA4301	/ V2A	6013456	6016 83 9		363	GRB 90 115 G	150 3,9/ St / G	5456247	6002 37 2		249
GKS 34 VA4401 SP	/ V4A	6120437	6016 85 9		392	GRB 90 120 FT	200 4,4/ ST / FT	6002115	6002 31 5		249
GKS 50 07 FS	7/ ST / FS	6421398	6015 26 3		253	GRB 90 120 G	200 4,4/ St / G	5456254	6002 37 4		249
						GRB 90 130 FT	300 4,8/ ST / FT	6002177	6002 32 3		249
GKS 50 07 FT	7/ St / FT	6785353	6015 27 1		253	GRB 90 130 G	300 4,8/ St / G	5456261	6002 37 6		249
GKS 50 11 FS	11/ ST / FS	6965847	6015 27 6		253	GRB 90 140 FT	400 4,8/ ST / FT	6002238	6002 33 1		249
						GRB 90 140 G	400 4,8/ St / G	5456278	6002 37 8		249
GKS 50 FT	11/ St / FT	6965908	6015 27 8		253	GRB 90 145 G	450 4,8/ St / G	5456285	6002 38 0		249
						GRB 90 150 FT	500 4,8/ ST / FT	6002290	6002 35 8		249
GKS 50 VA4404	11/ V4A	6937394	6015 28 0		393	GRB 90 150 G	500 4,8/ St / G	5456292	6002 38 2		249
						GRB 90 160 FT	600 4,8/ ST / FT	6002351	6002 36 6		249
GKT 38 FT	/ ST / FT	6013630	6017 06 1		251	GRB 90 160 G	600 4,8/ St / G	5456308	6002 38 4		249
GKT 38 FT	/ ST / FT	6013630	6017 06 1		257						
GKT 38 G	/ St / G	6307937	6017 03 7		251	GRB 90 510 FT	100 3,9/ ST / FT	6001699	6002 21 8		247
						GRB 90 510 G	100 3,9/ St / G	6352630	6001 92 0		247
GKT 38 VA4301	/ V2A	6013579	6017 04 5		360	GRB 90 515 FT	150 3,9/ ST / FT	6027248	6002 22 2		247
						GRB 90 515 G	150 3,9/ St / G	6624799	6001 99 8		247
GKT 38 VA4401 SP	/ V4A	6120499	6017 09 2		393	GRB 90 520 FT	200 3,9/ ST / FT	6001750	6002 22 6		247
						GRB 90 520 G	200 3,9/ St / G	6352692	6001 93 9		247
						GRB 90 530 FT	300 4,4/ ST / FT	6001811	6002 23 4		247
						GRB 90 530 G	300 4,4/ St / G	6352753	6001 94 7		247
GMH18 M10 G	10-10 / ST / G	5054672	1146 52 1	/100 pc.	189	GRB 90 540 FT	400 4,8/ ST / FT	6001873	6002 24 2		247
						GRB 90 540 G	400 4,8/ St / G	6352814	6001 95 5		247
GMH18 M10 VA	10-10 / V4A	5084907	1146 56 0		345	GRB 90 550 FT	500 4,8/ ST / FT	6001934	6002 25 0		247
GMH18 M12 VA	12-12 / V4A	5084167	1146 56 2		345	GRB 90 550 G	500 4,8/ St / G	6352876	6001 96 3		247
GMH18 M6 G	6-6 / ST / G	5054559	1146 50 5		189	GRB 90 560 FT	600 4,8/ ST / FT	6001996	6002 26 9		247
						GRB 90 560 G	600 4,8/ St / G	6352937	6001 97 1		247
GMH18 M6 VA	6-6 / V4A	5084129	1146 55 6		345						
GMH18 M8 G	8-8 / ST / G	5054610	1146 51 3		189					/m	
						GRM 105 100 FT	100 3,9/ ST / FT	6021239	6002 43 1		248
GMH18 M8 VA	8-8 / V4A	5084150	1146 55 8		345	GRM 105 100 G	100 3,9/ St / G	6020270	6002 40 2		248
GMH22 M10 G	10-10 / ST / G	5054917	1146 62 9		189	GRM 105 150 FT	150 3,9/ ST / FT	6021352	6002 43 3		248
						GRM 105 150 G	150 3,9/ St / G	6020393	6002 40 4		248
GMH22 M10 VA	10-10 / V4A	5084211	1146 65 0		345	GRM 105 200 FT	200 4,8/ ST / FT	6021475	6002 43 5		248
GMH22 M12 G	12-12 / ST / G	5054979	1146 63 7		189	GRM 105 200 G	200 4,8/ St / G	6020515	6002 40 6		248
GMH22 M12 VA	12-12 / V4A	5084228	1146 65 2		345	GRM 105 300 FT	300 4,8/ ST / FT	6021598	6002 43 7		248
GMH22 M6 G	6-6 / ST / G	5054795	1146 60 2		189	GRM 105 300 G	300 4,8/ St / G	6020638	6002 40 8		248
						GRM 105 400 FT	400 4,8/ ST / FT	6021710	6002 43 9		248
GMH22 M6 VA	6-6 / V4A	5084174	1146 64 6		345	GRM 105 400 G	400 4,8/ St / G	6020751	6002 41 0		248
GMH22 M8 G	8-8 / ST / G	5054856	1146 61 0		189	GRM 105 500 FT	500 4,8/ ST / FT	6021956	6002 44 3		248
						GRM 105 500 G	500 4,8/ St / G	6020997	6002 41 5		248
GMH22 M8 VA	8-8 / V4A	5084181	1146 64 8		345	GRM 105 600 FT	600 4,8/ ST / FT	6022076	6002 44 5		248
						GRM 105 600 G	600 4,8/ St / G	6021116	6002 41 7		248
GMS 170 FS	170/ ST / FS	6940875	6015 40 0	/pc.	252	GRM 35 100 FT	100 3,9/ St / FT	5037200	6000 07 1		244
						GRM 35 100 G	100 3,9/ St / G	5037149	6000 06 2		244
GMS 170 VA4401	170/ V4A	6952090	6015 41 8		362	GRM 35 100VA4301	100 3,9/ V2A	5467700	6000 05 5		357
GMS 170 VA4401	170/ V4A	6952090	6015 41 8		393	GRM 35 100VA4401	100 3,9/ V4A	5360759	6000 08 7		391
GMS 270 FS	270/ ST / FS	6940936	6015 40 2		252	GRM 35 150 FT	150 3,9/ St / FT	5037231	6000 07 2		244
						GRM 35 150 G	150 3,9/ St / G	5037170	6000 06 3		244
GMS 270 VA4401	270/ V4A	6952151	6015 41 9		252	GRM 35 150VA4301	150 3,9/ V2A	5467731	6000 05 6		357
GMS 270 VA4401	270/ V4A	6952151	6015 41 9		362	GRM 35 150VA4401	150 3,9/ V4A	5360766	6000 08 9		391
GMS 270 VA4401	270/ V4A	6952151	6015 41 9		393						
GMS 370 FS	370/ ST / FS	6940998	6015 40 4		252	GRM 35 200 FT	200 3,9/ St / FT	5037248	6000 07 3		244
						GRM 35 200 G	200 3,9/ St / G	5037187	6000 06 4		244
GMS 370 VA4401	370/ V4A	6952212	6015 42 0		252	GRM 35 200VA4301	200 3,9/ V2A	5470724	6000 05 7		357

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GRM 35 200VA4401	200 3,9/ V4A	5360773	6000 09 0	/m	391	GRS 3.9 DD	/ ST / DD	6518111	6016 54 5	/pc.	250
GRM 35 300 FT	300 4,8/ St / FT	5037255	6000 07 5		244	GRS 4.4 DD	/ ST / DD	6518050	6016 55 3		250
GRM 35 300 G	300 4,8/ St / G	5037194	6000 06 6		244						
GRM 35 300VA4301	300 4,8/ V2A	5470731	6000 05 9		357	GRS 4.8 DD	/ ST / DD	6517992	6016 56 1		250
GRM 35 300VA4401	300 4,8/ V4A	5360780	6000 09 1		391						
						GRV 245 DD	245/ ST / DD	6054251	6016 68 4		250
GRM 35 50 FT	50 3,9/ St / FT	5624820	6000 06 9		244	GRV 245 FS	245/ ST / FS	6052578	6016 68 0		250
GRM 35 50 G	50 3,9/ St / G	5624813	6000 06 0		244	GRV 245 VA4404	245/ V4A	6054312	6016 68 8		360
GRM 35 50VA4301	50 3,9/ V2A	5650591	6000 05 4		357	GRV 245 VA4404	245/ V4A	6054312	6016 68 8		392
GRM 55 100 F	100 3,9/ ST / F	6317233	6001 04 0		245	GSV 34 FT	/ ST / FT	6013159	6016 63 4		250
GRM 55 100 FT	100 3,9/ ST / FT	6814879	6001 41 6		245	GSV 34 FT	/ ST / FT	6013159	6016 63 4		256
GRM 55 100 G	100 3,9/ St / G	6858552	6001 44 2		245						
GRM 55 100VA4301	100 3,9/ V2A	6101290	6001 07 2		357	GSV 34 G	/ St / G	6520510	6016 59 6		250
GRM 55 100VA4401	100 3,9/ V4A	5166016	6001 08 8		391						
GRM 55 150 F	150 3,9/ ST / F	6317356	6001 04 4		245	GSV 34 VA4301	/ V2A	6013210	6016 64 2		360
GRM 55 150 FT	150 3,9/ ST / FT	6078912	6001 41 8		245	GSV 34 VA4301	/ V2A	6013210	6016 64 2		363
GRM 55 150 G	150 3,9/ St / G	6078974	6001 44 4		245	GSV 34 VA4401	/ V4A	6120079	6016 64 8		392
GRM 55 150VA4301	150 3,9/ V2A	6101351	6001 07 4		357						
GRM 55 150VA4401	150 3,9/ V4A	5166023	6001 09 0		391	GW 40 80 FT	2000/ ST / FT	6002955	6003 81 8	/m	254
GRM 55 200 4.8 G	200 4,8/ St / G	5045274	6001 44 7		245						
GRM 55 200 4.8FT	200 4,8/ St / FT	5045281	6001 42 1		245						
GRM 55 200 F	200 3,9/ ST / F	6317479	6001 04 7		245						
GRM 55 200 FT	200 3,9/ ST / FT	6814930	6001 42 0		245	HGMH18 M10 G	10-10 / ST / G	5055150	1146 73 4	/100 pc.	189
GRM 55 200 G	200 3,9/ St / G	6858613	6001 44 6		245	HGMH18 M12 G	12-12 / ST / G	5055211	1146 74 2		189
GRM 55 200VA4301	200 3,9/ V2A	6101412	6001 07 6		357	HGMH18 M6 G	6-6 / ST / G	5055037	1146 71 8		189
GRM 55 200VA4401	200 3,9/ V4A	5166061	6001 09 1		391	HGMH18 M8 G	8-8 / ST / G	5055099	1146 72 6		189
GRM 55 300 F	300 4,8/ ST / F	6323531	6001 05 0		245	HGMH22 M10 G	10-10 / ST / G	5055334	1146 81 5		189
GRM 55 300 FT	300 4,8/ St / FT	6815050	6001 42 4		245	HGMH22 M12 G	12-12 / ST / G	5055396	1146 82 3		189
GRM 55 300 G	300 4,8/ St / G	6858675	6001 44 8		245	HGMH22 M8 G	8-8 / ST / G	5055273	1146 80 7		189
GRM 55 300VA4301	300 4,8/ V2A	6101771	6001 07 8		357						
GRM 55 300VA4401	300 4,8/ V4A	5166078	6001 09 3		391	HMS-KS5X50	5 x 50 50/ ST / G	5964100	3498 20 4		192
GRM 55 400 F	400 4,8/ ST / F	6323838	6001 05 3		245	HS M6 VA4567	M6/ V2A	5463399	1154 99 0		251
GRM 55 400 FT	400 4,8/ St / FT	6815111	6001 42 8		245	HS M6 VA4567	M6/ V2A	5463399	1154 99 0		257
GRM 55 400 G	400 4,8/ St / G	6858736	6001 45 0		245	HS M6 VA4567	M6/ V2A	5463399	1154 99 0		361
GRM 55 400VA4301	400 4,8/ V2A	6102198	6001 08 0		357						
GRM 55 400VA4401	400 4,8/ V4A	5166085	6001 09 5		391						
GRM 55 50 FT	50 3,9/ St / FT	5430940	6001 41 5		245	IKS 610 FS	100 1/ ST / FS	6168439	6087 11 6	/m	209
GRM 55 50 G	50 3,9/ St / G	5430957	6001 44 1		245						
GRM 55 500 F	500 4,8/ ST / F	6324132	6001 05 6		245	IKS 620 FS	200 1/ ST / FS	6335053	6087 13 2		209
GRM 55 500 FT	500 4,8/ St / FT	6815173	6001 43 2		245						
GRM 55 500 G	500 4,8/ St / G	6858798	6001 45 2		245	IKS 630 FS	300 1/ ST / FS	6335114	6087 14 0		209
GRM 55 500VA4301	500 4,8/ V2A	6102259	6001 08 2		357						
GRM 55 500VA4401	500 4,8/ V4A	5166122	6001 09 7		391	IKS 640 FS	400 1/ ST / FS	6335176	6087 15 9		209
GRM 55 50VA4301	50 3,9/ V2A	5430933	6001 07 0		357						
GRM 55 50VA4401	50 3,9/ V4A	5431046	6001 08 7		391	IS 8 100 FT	1000/ ST / FT	6183197	6337 11 2	/pc.	170
GRM 55 600 F	600 4,8/ ST / F	6324439	6001 05 9		245	IS 8 110 FT	1100/ ST / FT	6183258	6337 12 0		170
GRM 55 600 FT	600 4,8/ St / FT	6815234	6001 43 6		245						
GRM 55 600 G	600 4,8/ St / G	6858859	6001 45 4		245	IS 8 120 FT	1200/ ST / FT	5804550	6337 13 9		170
GRM 55 600VA4301	600 4,8/ V2A	6102310	6001 08 5		357						
GRM 55 600VA4401	600 4,8/ V4A	5166139	6001 09 9		391	IS 8 130 FT	1300/ ST / FT	5805038	6337 14 7		170
GRM105 100VA4301	100 3,9/ V2A	5149620	6002 45 1		358	IS 8 140 FT	1400/ ST / FT	5934936	6337 15 5		170
GRM105 200VA4301	200 4,8/ V2A	5149637	6002 45 7		358	IS 8 150 FT	1500/ ST / FT	6183494	6337 16 3		170
GRM105 300VA4301	300 4,8/ V2A	5149644	6002 46 0		358	IS 8 160 FT	1600/ ST / FT	5934752	6337 17 1		170
GRM105 400VA4301	400 4,8/ V2A	5149675	6002 46 3		358	IS 8 170 FT	1700/ ST / FT	6183616	6337 19 8		170
GRM105 500VA4301	500 4,8/ V2A	5149682	6002 46 6		358	IS 8 180 FT	1800/ ST / FT	5934875	6337 20 1		170
GRM-2T 55 200 G	200/ St / G	5438649	6006 39 5		246	IS 8 190 FT	1900/ ST / FT	5934219	6337 22 8		170
GRM-2T 55 300	300/ St / G	5438656	6006 39 6		246						
GRM-2T 55 400 G	400/ St / G	5438663	6006 39 7		246	IS 8 200 FT	2000/ ST / FT	6183791	6337 23 6		170
GRM-T 55 100 G	100 59,5/ ST / G	6150854	6006 45 3		246	IS 8 30 FT	300/ ST / FT	6182770	6337 03 1		170
GRM-T 55 200 G	200 59,5/ ST / G	6151219	6006 45 5		246						
GRM-T 55 300 G	300 199,5/ ST / G	6151578	6006 45 6		246	IS 8 300 FT	3000/ ST / FT	6183852	6337 24 4		170
GRM-T 55 400 G	400 299,5/ ST / G	6151936	6006 45 7		246						
GRM-T 55 500 G	500 399,5/ ST / G	6152292	6006 45 8		246	IS 8 40 FT	400/ ST / FT	6182831	6337 05 8		170
						IS 8 50 FT	500/ ST / FT	6182893	6337 06 6		170

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KU 3 VA4301	/ V2A	5706014	6348 87 6	/pc.	337	LAB 50 VA4301	500/ V2A	6261970	7164 04 1	/pc.	367
KU 3 VA4571	/ V4A	5706021	6348 87 7		381	LAB 60 FT	600/ St / FT	6163632	6220 47 9		275
KU 5 V FT	/ St / FT	6901456	6348 92 0		153	LAB 60 VA4301	600/ V2A	6262038	7164 06 8		367
KU 5 V VA4301	/ V2A	5018360	6348 92 5		339	LAL 70 FS	/ ST / FS	6164417	6221 00 9		274
KU 5 V VA4571	/ V4A	5018452	6348 92 7		383	LAL 70 VA4301	/ V2A	6164479	6221 01 7		274
KU 7 AOX FT	/ ST / FT	6191598	6349 21 8		157	LAL 70 VA4301	/ V2A	6164479	6221 01 7		367
KU 7 FT	/ St / FT	6191413	6349 10 2		156	LALB 20 FT	200/ St / FT	6166152	6221 85 8		275
KU 7 NOX FT	/ ST / FT	6191352	6349 05 6		156	LALB 30 FT	300/ St / FT	6166213	6221 86 6		275
KU 7 VQP FT	/ St / FT	6191475	6349 15 3		157	LALB 40 FT	400/ St / FT	6166275	6221 87 4		275
KU 7 VQP VA4301	/ V2A	6191536	6349 19 6		341	LALB 50 FT	500/ St / FT	6166336	6221 88 2		275
KUS 5 FT	/ St / FT	6168910	6348 90 4		153	LALB 60 FT	600/ St / FT	6166398	6221 89 0		275
KUS 5 NOK FT	/ ST / FT	6437771	6348 93 9		153	LAS 110 FS	/ ST / FS	6165254	6221 41 6		272
KUS 5 NOK VA4301	/ V2A	6437832	6348 94 7		339	LAS 110 FT	/ ST / FT	6165315	6221 42 4		272
KUS 7 VA4301	/ V2A	6191659	6349 27 7		341	LAS 45 FS	/ ST / FS	6164950	6221 30 0		264
KWH 10 FT	10/ ST / FT	6194537	6355 04 8	/pair	175	LAS 45 FT	/ ST / FT	6165018	6221 31 9		264
KWH 10 VA4301	10/ V2A	6195138	6355 31 5		344	LAS 60 FS	/ ST / FS	6165070	6221 35 1		268
KWH 15 FT	15/ ST / FT	6194599	6355 05 6		175	LAS 60 FT	/ ST / FT	6165131	6221 37 8		268
KWH 15 VA4301	15/ V2A	6195190	6355 32 3		344	LAS 60 VA4301	/ V2A	6165193	6221 38 6		366
KWH 20 FT	20/ ST / FT	6194650	6355 06 4		175	LAW FT	/ ST / FT	6165438	6221 51 3		274
KWH 20 VA4301	20/ V2A	6195251	6355 33 1		344	LBI 90 112 FS	200/ ST / FS	6157273	6217 62 1		273
KWH 25 FT	25/ ST / FT	6194711	6355 07 2		175	LBI 90 112 FT	200/ ST / FT	6157631	6217 72 9		273
KWH 25 VA4301	25/ V2A	6195312	6355 35 8		344	LBI 90 113 FS	300/ ST / FS	6157334	6217 64 8		273
KWH 5 FT	5/ ST / FT	6194476	6355 02 1		175	LBI 90 113 FT	300/ ST / FT	6157693	6217 73 7		273
KWH 5 VA4301	5/ V2A	6195077	6355 30 7		344	LBI 90 114 FS	400/ ST / FS	6157396	6217 65 6		273
KWS 10 FT	10/ ST / FT	6194834	6355 22 6		175	LBI 90 114 FT	400/ ST / FT	6157754	6217 74 5		273
KWS 10 VA4301	10/ V2A	6195435	6355 41 2		344	LBI 90 115 FS	500/ ST / FS	6157457	6217 66 4		273
KWS 15 FT	15/ ST / FT	6194896	6355 23 4		175	LBI 90 115 FT	500/ ST / FT	6157815	6217 75 3		273
KWS 15 VA4301	15/ V2A	6195497	6355 42 0		344	LBI 90 116 FS	600/ ST / FS	6157518	6217 67 2		273
KWS 20 FT	20/ ST / FT	6194957	6355 24 2		175	LBI 90 116 FT	600/ ST / FT	6157877	6217 76 1		273
KWS 20 VA4301	20/ V2A	6195558	6355 43 9		344	LBI 90 420 FS	200/ ST / FS	6126378	6203 02 7		265
KWS 25 FT	25/ ST / FT	6195015	6355 25 0		175	LBI 90 420 FT	200/ ST / FT	6126736	6203 12 4		265
KWS 25 VA4301	25/ V2A	6195619	6355 44 7		344	LBI 90 430 FS	300/ ST / FS	6126439	6203 03 5		265
KWS 5 FT	5/ ST / FT	6194773	6355 21 8	/pc.	175	LBI 90 430 FT	300/ ST / FT	6126798	6203 13 2		265
KWS 5 VA4301	5/ V2A	6195374	6355 40 4		344	LBI 90 440 FS	400/ ST / FS	6126491	6203 04 3		265
LAB 20 FT	200/ St / FT	6163397	6220 43 6		275	LBI 90 440 FT	400/ ST / FT	6126859	6203 14 0		265
LAB 20 VA4301	200/ V2A	6261796	7164 01 7		367	LBI 90 450 FS	500/ ST / FS	6126552	6203 05 1		265
LAB 30 FT	300/ St / FT	6163458	6220 44 4		275	LBI 90 450 FT	500/ ST / FT	6126910	6203 15 9		265
LAB 30 VA4301	300/ V2A	6261857	7164 02 5		367	LBI 90 460 FS	600/ ST / FS	6126613	6203 07 8		265
LAB 40 FT	400/ St / FT	6163519	6220 45 2		275	LBI 90 460 FT	600/ ST / FT	6126972	6203 16 7		265
LAB 40 VA4301	400/ V2A	6261918	7164 03 3		367	LBI 90 620 NS FS	200/ ST / FS	6142996	6211 03 8		268
LAB 50 FT	500/ St / FT	6163571	6220 46 0		275	LBI 90 620 NS FT	200/ ST / FT	6143351	6211 12 7		268
						LBI 90 620 VS FS	200/ St / FS	6143719	6211 22 4		269
						LBI 90 620 VS FT	200/ ST / FT	6144075	6211 32 1		269
						LBI 90 620 VS VA	200/ V2A	6259991	7160 04 6		366
						LBI 90 630 NS FS	300/ ST / FS	6143054	6211 04 6		268
						LBI 90 630 NS FT	300/ ST / FT	6143412	6211 13 5		268
						LBI 90 630 VS FS	300/ St / FS	6143771	6211 23 2		269
						LBI 90 630 VS FT	300/ ST / FT	6144136	6211 34 8		269
						LBI 90 630 VS VA	300/ V2A	6260058	7160 05 4		366
						LBI 90 640 NS FS	400/ ST / FS	6143115	6211 05 4		268
						LBI 90 640 NS FT	400/ ST / FT	6143474	6211 14 3		268
						LBI 90 640 VS FS	400/ St / FS	6143832	6211 24 0		269
						LBI 90 640 VS FT	400/ ST / FT	6144198	6211 35 6		269
						LBI 90 640 VS VA	400/ V2A	6260119	7160 06 2		366
						LBI 90 650 NS FS	500/ ST / FS	6143177	6211 06 2		268
						LBI 90 650 NS FT	500/ ST / FT	6143535	6211 15 1		268
						LBI 90 650 VS FS	500/ St / FS	6143894	6211 25 9		269
						LBI 90 650 VS FT	500/ ST / FT	6144259	6211 36 4		269
						LBI 90 650 VS VA	500/ V2A	6260171	7160 08 9		366
						LBI 90 660 NS FS	600/ ST / FS	6143238	6211 07 0		268
						LBI 90 660 NS FT	600/ ST / FT	6143597	6211 17 8		268
						LBI 90 660 VS FS	600/ St / FS	6143955	6211 26 7		269

Type listing

Structure of the EAN number: Country code **40**

Manufacturer code **1219** (for articles beginning with **0: 1010**)

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Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
				/pc.						/m	
LBI 90 660 VS FT	600/ ST / FT	6144310	6211 37 2		269	LG 630 NS 6000FT	300 1,5/ ST / FT	5064190	6208 60 6		266
LBI 90 660 VS VA	600/ V2A	6260232	7160 09 7		366						
LEB 25 DD	250/ ST / DD	6089116	6221 21 6		275	LG 630 VS 3000FS	300 1,5/ ST / FS	5064053	6208 54 1		267
						LG 630 VS 3000FS	300 1,5/ ST / FS	5064053	6208 54 1		300
LEB 25 FS	250/ ST / FS	6164714	6221 20 3		275	LG 630 VS 3000FT	300 1,5/ St / FT	5434160	6208 56 6		267
						LG 630 VS 3000FT	300 1,5/ St / FT	5434160	6208 56 6		300
LEB 50 DD	500/ ST / DD	6089239	6221 25 9		275	LG 630 VS 6000FS	300 1,5/ St / FS	5064268	6208 63 0		267
						LG 630 VS 6000FS	300 1,5/ St / FS	5064268	6208 63 0		301
LEB 50 FS	500/ ST / FS	6164837	6221 24 6		275	LG 630 VS 6000FT	300 1,5/ ST / FT	5064350	6208 65 3		267
						LG 630 VS 6000FT	300 1,5/ ST / FT	5064350	6208 65 3		301
				/m		LG 630 VS VA4301	300 1,5/ V2A	5064428	6208 70 3		365
LG 112 3000 FS	200 1,5/ ST / FS	5064480	6216 40 4		271	LG 630 VS VA4301	300 1,5/ V2A	5064428	6208 70 3		373
LG 112 3000 FT	200 1,5/ ST / FT	5065210	6216 42 3		271	LG 630 VS VA4571	300 1,5/ V4A	6514038	6101 20 8		394
LG 112 6000 FS	200 1,5/ ST / FS	5065289	6216 44 2		271	LG 640 NS 3000FS	400 1,5/ ST / FS	5063995	6208 51 2		266
LG 112 6000 FT	200 1,5/ ST / FT	5065371	6216 46 5		271	LG 640 NS 6000FS	400 1,5/ ST / FS	5064138	6208 58 7		266
						LG 640 NS 6000FT	400 1,5/ ST / FT	5064206	6208 60 9		266
LG 113 3000 FS	300 1,5/ ST / FS	5064497	6216 40 7		271	LG 640 VS 3000FS	400 1,5/ ST / FS	5064060	6208 54 4		267
LG 113 3000 FT	300 1,5/ ST / FT	5065227	6216 42 6		271	LG 640 VS 3000FS	400 1,5/ ST / FS	5064060	6208 54 4		300
						LG 640 VS 3000FT	400 1,5/ St / FT	5434207	6208 57 0		267
LG 113 6000 FS	300 1,5/ ST / FS	5065319	6216 44 5		271	LG 640 VS 3000FT	400 1,5/ St / FT	5434207	6208 57 0		300
LG 113 6000 FT	300 1,5/ ST / FT	5065388	6216 46 8		271	LG 640 VS 6000FS	400 1,5/ St / FS	5064299	6208 63 3		267
						LG 640 VS 6000FS	400 1,5/ St / FS	5064299	6208 63 3		301
LG 114 3000 FS	400 1,5/ ST / FS	5064503	6216 41 0		271	LG 640 VS 6000FT	400 1,5/ ST / FT	5064367	6208 65 6		267
LG 114 3000 FT	400 1,5/ ST / FT	5065258	6216 42 9		271	LG 640 VS 6000FT	400 1,5/ ST / FT	5064367	6208 65 6		301
						LG 640 VS VA4301	400 1,5/ V2A	5064435	6208 70 6		365
LG 114 6000 FS	400 1,5/ ST / FS	5065326	6216 44 8		271	LG 640 VS VA4301	400 1,5/ V2A	5064435	6208 70 6		373
LG 114 6000 FT	400 1,5/ ST / FT	5065395	6216 47 1		271	LG 640 VS VA4571	400 1,5/ V4A	5022114	6101 21 6		394
LG 115 3000 FS	500 1,5/ ST / FS	5064534	6216 41 3		271	LG 650 NS 3000FS	500 1,5/ ST / FS	5064008	6208 51 5		266
LG 115 3000 FT	500 1,5/ ST / FT	5065265	6216 43 2		271	LG 650 NS 6000FS	500 1,5/ ST / FS	5064145	6208 59 0		266
						LG 650 NS 6000FT	500 1,5/ ST / FT	5064237	6208 61 2		266
LG 115 6000 FS	500 1,5/ ST / FS	5065333	6216 45 1		271						
LG 115 6000 FT	500 1,5/ ST / FT	5065401	6216 47 4		271	LG 650 VS 3000FS	500 1,5/ ST / FS	5064077	6208 54 7		267
						LG 650 VS 3000FS	500 1,5/ ST / FS	5064077	6208 54 7		300
LG 116 3000 FS	600 1,5/ ST / FS	5065203	6216 41 6		271	LG 650 VS 3000FT	500 1,5/ St / FT	5434214	6208 57 4		267
LG 116 3000 FT	600 1,5/ ST / FT	5065272	6216 43 5		271	LG 650 VS 3000FT	500 1,5/ St / FT	5434214	6208 57 4		300
						LG 650 VS 6000FS	500 1,5/ St / FS	5064305	6208 63 6		267
LG 116 6000 FS	600 1,5/ ST / FS	5065340	6216 45 4		271	LG 650 VS 6000FS	500 1,5/ St / FS	5064305	6208 63 6		301
LG 116 6000 FT	600 1,5/ ST / FT	5065432	6216 47 7		271	LG 650 VS 6000FT	500 1,5/ ST / FT	5064374	6208 65 9		267
						LG 650 VS 6000FT	500 1,5/ ST / FT	5064374	6208 65 9		301
LG 420 NS 3000FS	200 1,25/ ST / FS	5063483	6200 50 8		262	LG 650 VS VA4301	500 1,5/ V2A	5064442	6208 70 9		365
LG 420 NS 6000FS	200 1,25/ ST / FS	5063643	6200 58 3		262	LG 650 VS VA4301	500 1,5/ V2A	5064442	6208 70 9		373
LG 420 NS FT	200 1,25/ ST / FT	5063711	6200 60 5		262	LG 650 VS VA4571	500 1,5/ V4A	5022121	6101 22 3		394
LG 430 NS 3000FS	300 1,25/ ST / FS	5063513	6200 51 1		262	LG 660 NS 3000FS	600 1,5/ ST / FS	5064015	6208 51 8		266
LG 430 NS 6000FS	300 1,25/ St / FS	5063650	6200 58 6		262	LG 660 NS 6000FS	600 1,5/ ST / FS	5064176	6208 59 3		266
LG 430 NS FT	300 1,25/ ST / FT	5063728	6200 60 8		262	LG 660 NS 6000FT	600 1,5/ ST / FT	5064244	6208 61 5		266
LG 440 NS 3000FS	400 1,25/ ST / FS	5063520	6200 51 4		262	LG 660 VS 3000FS	600 1,5/ ST / FS	5064084	6208 55 0		267
LG 440 NS 6000FS	400 1,25/ ST / FS	5063667	6200 58 9		262	LG 660 VS 3000FS	600 1,5/ ST / FS	5064084	6208 55 0		300
LG 440 NS FT	400 1,25/ ST / FT	5063759	6200 61 1		262	LG 660 VS 3000FT	600 1,5/ St / FT	5434221	6208 57 8		267
						LG 660 VS 3000FT	600 1,5/ St / FT	5434221	6208 57 8		300
LG 450 NS 3000FS	500 1,25/ ST / FS	5063537	6200 51 7		262	LG 660 VS 6000FS	600 1,5/ St / FS	5064312	6208 63 9		267
LG 450 NS 6000FS	500 1,25/ ST / FS	5063698	6200 59 2		262	LG 660 VS 6000FS	600 1,5/ St / FS	5064312	6208 63 9		301
LG 450 NS FT	500 1,25/ ST / FT	5063766	6200 61 4		262	LG 660 VS 6000FT	600 1,5/ ST / FT	5064381	6208 66 1		267
						LG 660 VS 6000FT	600 1,5/ ST / FT	5064381	6208 66 1		301
LG 460 NS 3000FS	600 1,25/ ST / FS	5063544	6200 52 0		262	LG 660 VS VA4301	600 1,5/ V2A	5064473	6208 71 2		365
LG 460 NS 6000FS	600 1,25/ ST / FS	5063704	6200 59 5		262	LG 660 VS VA4301	600 1,5/ V2A	5064473	6208 71 2		373
LG 460 NS FT	600 1,25/ ST / FT	5063773	6200 61 7		262	LG 660 VS VA4571	600 1,5/ V4A	6524952	6101 23 2		394
LG 620 NS 3000FS	200 1,5/ ST / FS	5063957	6208 50 6		266					/pc.	
LG 620 NS 6000FS	200 1,5/ ST / FS	5064114	6208 58 1		266	LGBV 112 FS	200/ ST / FS	6160150	6218 82 2		273
LG 620 NS 6000FT	200 1,5/ ST / FT	5064183	6208 60 3		266	LGBV 112 FT	200/ ST / FT	6160518	6218 93 8		273
LG 620 VS 3000FS	200 1,5/ ST / FS	5064022	6208 53 8		267						
LG 620 VS 3000FS	200 1,5/ ST / FS	5064022	6208 53 8		300	LGBV 113 FS	300/ ST / FS	6160211	6218 83 0		273
LG 620 VS 3000FT	200 1,5/ St / FT	5434153	6208 56 2		267	LGBV 113 FT	300/ ST / FT	6160570	6218 94 6		273
LG 620 VS 3000FT	200 1,5/ St / FT	5434153	6208 56 2		300						
LG 620 VS 6000FS	200 1,5/ St / FS	5064251	6208 62 7		267	LGBV 114 FS	400/ ST / FS	6160273	6218 84 9		273
LG 620 VS 6000FS	200 1,5/ St / FS	5064251	6208 62 7		301	LGBV 114 FT	400/ ST / FT	6160631	6218 95 4		273
LG 620 VS 6000FT	200 1,5/ ST / FT	5064329	6208 65 0		267						
LG 620 VS 6000FT	200 1,5/ ST / FT	5064329	6208 65 0		301	LGBV 115 FS	500/ ST / FS	6160334	6218 85 7		273
LG 620 VS VA4301	200 1,5/ V2A	5064411	6208 70 0		365	LGBV 115 FT	500/ ST / FT	6160693	6218 96 2		273
LG 620 VS VA4301	200 1,5/ V2A	5064411	6208 70 0		373						
LG 620 VS VA4571	200 1,5/ V4A	6159314	6101 20 0		394	LGBV 116 FS	600/ ST / FS	6160396	6218 86 5		273
						LGBV 116 FT	600/ ST / FT	6160754	6218 97 0		273
LG 630 NS 3000FS	300 1,5/ ST / FS	5063964	6208 50 9		266	LGBV 420 FS	200/ ST / FS	6132133	6205 03 8		265
LG 630 NS 6000FS	300 1,5/ ST / FS	5064121	6208 58 4		266						

Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
LGBV 420 FT	200/ ST / FT	6132492	6205 12 7	/pc.	265	LK 620 VS FS	200/ St / FS	6152353	6214 22 3	/pc.	270
LGBV 430 FS	300/ ST / FS	6132195	6205 04 6		265	LK 620 VS FT	200/ ST / FT	6152711	6214 32 0		270
LGBV 430 FT	300/ ST / FT	6132553	6205 13 5		265	LK 630 NS FS	300/ ST / FS	6151691	6214 03 7		269
LGBV 440 FS	400/ ST / FS	6132256	6205 05 4		265	LK 630 NS FT	300/ ST / FT	6152056	6214 14 2		269
LGBV 440 FT	400/ ST / FT	6132614	6205 14 3		265	LK 630 VS FS	300/ St / FS	6152414	6214 23 1		270
LGBV 450 FS	500/ ST / FS	6132317	6205 06 2		265	LK 630 VS FT	300/ ST / FT	6152773	6214 33 9		270
LGBV 450 FT	500/ ST / FT	6132676	6205 15 1		265	LK 640 NS FS	400/ ST / FS	6151752	6214 04 5		269
LGBV 460 FS	600/ ST / FS	6132379	6205 07 0		265	LK 640 NS FT	400/ ST / FT	6152117	6214 15 0		269
LGBV 460 FT	600/ ST / FT	6132737	6205 17 8		265	LK 640 VS FS	400/ St / FS	6152476	6214 25 8		270
LGBV 620 NS FS	200/ ST / FS	6148752	6213 02 2		270	LK 640 VS FT	400/ ST / FT	6152834	6214 34 7		270
LGBV 620 NS FT	200/ ST / FT	6149117	6213 13 8		270	LK 650 NS FS	500/ ST / FS	6151813	6214 05 3		269
LGBV 620 VS FS	200/ ST / FS	6149476	6213 22 7		270	LK 650 NS FT	500/ ST / FT	6152179	6214 16 9		269
LGBV 620 VS FT	200/ ST / FT	6149834	6213 32 4		270	LK 650 VS FS	500/ St / FS	6152537	6214 26 6		270
LGBV 630 NS FS	300/ ST / FS	6148813	6213 03 0		270	LK 650 VS FT	500/ ST / FT	6152896	6214 35 5		270
LGBV 630 NS FT	300/ ST / FT	6149179	6213 14 6		270	LK 660 NS FS	600/ ST / FS	6151875	6214 06 1		269
LGBV 630 VS FS	300/ ST / FS	6149537	6213 23 5		270	LK 660 NS FT	600/ ST / FT	6152230	6214 17 7		269
LGBV 630 VS FT	300/ ST / FT	6149896	6213 33 2		270	LK 660 VS FS	600/ St / FS	6152599	6214 27 4		270
LGBV 640 NS FS	400/ ST / FS	6148875	6213 04 9		270	LK 660 VS FT	600/ ST / FT	6152957	6214 36 3		270
LGBV 640 NS FT	400/ ST / FT	6149230	6213 15 4		270	LKS 40 FS	/ St / FS	6164530	6221 07 6		274
LGBV 640 VS FS	400/ ST / FS	6149599	6213 24 3		270	LKS 40 FT	/ ST / FT	6164592	6221 08 4		274
LGBV 640 VS FT	400/ ST / FT	6149957	6213 34 0		270	LKS 40 VA4301	/ V2A	6295630	6017 13 4		367
LGBV 650 NS FS	500/ ST / FS	6148936	6213 05 7		270	LKS 60 4 VA4301	/ V2A	6015252	6221 13 0		372
LGBV 650 NS FT	500/ ST / FT	6149292	6213 16 2		270	LKS 60 5 FT	/ ST / FT	6175512	6232 48 5		288
LGBV 650 VS FS	500/ ST / FS	6149650	6213 25 1		270	LKS 60 5 FT	/ ST / FT	6175512	6232 48 5		291
LGBV 650 VS FT	500/ ST / FT	6150014	6213 35 9		270	LKS 60 5 FT	/ ST / FT	6175512	6232 48 5		295
LGBV 660 NS FS	600/ ST / FS	6148998	6213 06 5		270	LKS60 4 FT	/ ST / FT	6164653	6221 12 2		274
LGBV 660 NS FT	600/ ST / FT	6149353	6213 17 0		270	LKS60 4 FT	/ ST / FT	6164653	6221 12 2		288
LGBV 660 VS FS	600/ ST / FS	6149711	6213 27 8		270	LKS60 4 VA4571	/ V4A	6524839	6221 15 7		395
LGBV 660 VS FT	600/ ST / FT	6150076	6213 36 7		270	LT 112 FS	200/ ST / FS	6160877	6219 22 5		273
LGVG 110 FS	110-110 / ST / FS	5065739	6216 65 0		272	LT 112 FT	200/ ST / FT	6161232	6219 32 2		273
LGVG 110 FT	110-110 / ST / FT	5065746	6216 65 3		272	LT 113 FS	300/ ST / FS	6160938	6219 23 3		273
LGVG 45 FS	45/ ST / FS	5065517	6200 92 6		264	LT 113 FT	300/ ST / FT	6161294	6219 33 0		273
LGVG 45 FT	45/ ST / FT	5065524	6200 92 9		264	LT 114 FS	400/ ST / FS	6160990	6219 24 1		273
LGVG 60 FS	60/ ST / FS	5065623	6208 94 1		268	LT 114 FT	400/ ST / FT	6161355	6219 34 9		273
LGVG 60 FS	60/ ST / FS	5065623	6208 94 1		303	LT 115 FS	500/ ST / FS	6161058	6219 26 8		273
LGVG 60 FT	60/ ST / FT	5065630	6208 94 4		268	LT 115 FT	500/ ST / FT	6161416	6219 35 7		273
LGVG 60 FT	60/ ST / FT	5065630	6208 94 4		303	LT 116 FS	600/ ST / FS	6161119	6219 27 6		273
LGVG 60 VA4301	60/ V2A	5065647	6208 94 7		366	LT 116 FT	600/ ST / FT	6161478	6219 36 5		273
LGVG 60 VA4301	60/ V2A	5065647	6208 94 7		374	LT 420 FS	200/ ST / FS	6133574	6205 53 4		265
LGVG 60 VA4571	60/ V4A	5046370	6208 93 2		395	LT 420 FT	200/ ST / FT	6133932	6205 62 3		265
LK 112 FS	200/ ST / FS	6161591	6219 52 7		273	LT 430 FS	300/ ST / FS	6133635	6205 54 2		265
LK 112 FT	200/ ST / FT	6161959	6219 62 4		273	LT 430 FT	300/ ST / FT	6133994	6205 63 1		265
LK 113 FS	300/ ST / FS	6161652	6219 53 5		273	LT 440 FS	400/ ST / FS	6133697	6205 55 0		265
LK 113 FT	300/ ST / FT	6162017	6219 63 2		273	LT 440 FT	400/ ST / FT	6134052	6205 65 8		265
LK 114 FS	400/ ST / FS	6161713	6219 54 3		273	LT 450 FS	500/ ST / FS	6133758	6205 56 9		265
LK 114 FT	400/ ST / FT	6162079	6219 64 0		273	LT 450 FT	500/ ST / FT	6134113	6205 66 6		265
LK 115 FS	500/ ST / FS	6161775	6219 55 1		273	LT 460 FS	600/ ST / FS	6133819	6205 57 7		265
LK 115 FT	500/ ST / FT	6162130	6219 65 9		273	LT 460 FT	600/ ST / FT	6134175	6205 67 4		265
LK 116 FS	600/ ST / FS	6161836	6219 57 8		273	LT 620 NS FS	200/ ST / FS	6150199	6213 52 9		269
LK 116 FT	600/ ST / FT	6162192	6219 66 7		273	LT 620 NS FT	200/ ST / FT	6150557	6213 63 4		269
LK 420 FT	200/ ST / FT	6135370	6206 12 3		265	LT 620 VS FS	200/ St / FS	6150915	6213 72 3		269
LK 430 FT	300/ ST / FT	6135431	6206 13 1		265	LT 620 VS FT	200/ ST / FT	6151271	6213 82 0		269
LK 440 FT	400/ ST / FT	6135493	6206 15 8		265	LT 620 VS VA4301	200/ V2A	6261079	7162 02 2		366
LK 450 FT	500/ ST / FT	6135554	6206 16 6		265	LT 630 NS FS	300/ ST / FS	6150250	6213 53 7		269
LK 460 FT	600/ ST / FT	6135615	6206 17 4		265						
LK 620 NS FS	200/ ST / FS	6151639	6214 02 9		269						
LK 620 NS FT	200/ ST / FT	6151998	6214 13 4		269						

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Structure of the EAN number: Country code **40**

Manufacturer code **1219** (for articles beginning with **0: 1010**)

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Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
LT 630 NS FT	300/ ST / FT	6150618	6213 64 2	/pc.	269	LWVG 60 VA4301	60/ V2A	5065616	6208 89 8	/pc.	303
LT 630 VS FS	300/ St / FS	6150977	6213 73 1		269	LWVG 60 VA4301	60/ V2A	5065616	6208 89 8		365
LT 630 VS FT	300/ ST / FT	6151332	6213 83 9		269	LWVG 60 VA4301	60/ V2A	5065616	6208 89 8		373
LT 630 VS VA4301	300/ V2A	6261130	7162 04 9		366	LWVG 60 VA4571	60-60 / V4A	5022084	6208 89 1		394
LT 640 NS FS	400/ ST / FS	6150311	6213 54 5		269	MAH 050 FS	50-50 / ST / FS	6765553	6358 50 0		141
LT 640 NS FT	400/ ST / FT	6150670	6213 65 0		269	MAH 075 FS	75-75 / ST / FS	6874699	6358 51 0		141
LT 640 VS FS	400/ St / FS	6151035	6213 75 8		269	MAH 100 FS	100-100 / ST / FS	6765676	6358 52 7		141
LT 640 VS FT	400/ ST / FT	6151394	6213 84 7		269	MAH 150 FS	150-150 / ST / FS	6765737	6358 53 5		141
LT 640 VS VA4301	400/ V2A	6261192	7162 05 7		366	MAH 200 FS	200-200 / ST / FS	6765799	6358 54 3		141
LT 650 NS FS	500/ ST / FS	6150373	6213 55 3		269	MAH 35 100 FS	100-100 M10/ St / FS	5364061	6358 69 0		141
LT 650 NS FT	500/ ST / FT	6150731	6213 66 9		269	MAH 35 200 FS	200-200 M10/ St / FS	5364078	6358 69 2		141
LT 650 VS FS	500/ St / FS	6151097	6213 76 6		269	MAH 35 300 FS	300-300 M10/ St / FS	5364085	6358 69 4		141
LT 650 VS FT	500/ ST / FT	6151455	6213 85 5		269	MAH 60 100 FS	100-100 M10/ ST / FS	6939374	6358 70 5		141
LT 650 VS VA4301	500/ V2A	6261253	7162 07 3		366	MAH 60 100 FT	100-100 M10/ ST / FT	6947171	6358 75 2		141
LT 660 NS FS	600/ ST / FS	6150434	6213 56 1		269	MAH 60 150 FS	150-150 M10/ ST / FS	6939435	6358 70 9		141
LT 660 NS FT	600/ ST / FT	6150793	6213 67 7		269	MAH 60 150 FT	150-150 M10/ ST / FT	6947232	6358 75 6		141
LT 660 VS FS	600/ St / FS	6151158	6213 77 4		269	MAH 60 200 FS	200-200 M10/ ST / FS	6939497	6358 71 3		141
LT 660 VS FT	600/ ST / FT	6151516	6213 86 3		269	MAH 60 200 FT	200-200 M10/ ST / FT	6947294	6358 76 0		141
LT 660 VS VA4301	600/ V2A	6261314	7162 08 1		366	MAH 60 300 FS	300-300 M10/ ST / FS	6939558	6358 71 7		141
LTK-K 10 G	2,6/ ST / G	6057559	6050 36 0	/m	322	MAH 60 300 FT	300-300 M10/ ST / FT	6947355	6358 76 4		141
LTK-K 25 G	2,6/ ST / G	6936137	6050 37 0		322	MAH LTR FS	75-75 M10/ St / FS	5268611	6358 81 0		318
LTR 3000 FS	75 60-60 / ST / FS	6943876	6055 81 0		318	MAHU 200 FS	200/ St / FS	5435761	6358 85 3		141
LTR 6000 FS	75 60-60 / ST / FS	6943937	6055 81 2		318	MAHU 200 FS	200/ St / FS	5435761	6358 85 3		274
LTR FSK RW	75 60-60 / St / FSK	5163329	6055 82 0		318	MAHU 200 FT	200/ St / FT	5435839	6358 88 4		141
LTS 100 FS	100 1,5/ St / FS	5247135	6075 02 4		319	MAHU 200 FT	200/ St / FT	5435839	6358 88 4		274
LTS 50 FS	50 50/ ST / FS	6935956	6075 00 0		319	MAHU 300 FS	300/ St / FS	5435778	6358 85 6		141
LTS 50 FT	50 50/ ST / FT	6936014	6075 00 5		319	MAHU 300 FS	300/ St / FS	5435778	6358 85 6		274
LTS B DD	50 50/ St / DD	5453451	6074 90 1	/pc.	320	MAHU 300 FT	300/ St / FT	5435846	6358 88 8		141
LTS DFB DD	50 50/ St / DD	5453482	6074 95 2		320	MAHU 300 FT	300/ St / FT	5435846	6358 88 8		274
LTS DFK DD	50 50/ St / DD	5453529	6074 97 2		320	MAHU 400 FS	400/ St / FS	5435785	6358 86 0		141
LTS DFT DD	50 50/ St / DD	5453512	6074 96 1		320	MAHU 400 FS	400/ St / FS	5435785	6358 86 0		274
LTS K DD	50 50/ St / DD	5453475	6074 92 1		320	MAHU 400 FT	400/ St / FT	5435877	6358 89 2		141
LTS T DD	50 50/ St / DD	5453468	6074 91 2		320	MAHU 400 FT	400/ St / FT	5435877	6358 89 2		274
LVG 110 FS	110-110 / ST / FS	5065678	6216 54 5		271	MAHU 500 FS	500/ St / FS	5435815	6358 86 4		141
LVG 110 FT	110-110 / ST / FT	5065685	6216 54 8		271	MAHU 500 FS	500/ St / FS	5435815	6358 86 4		274
LVG 45 FS	45/ ST / FS	5065197	6200 83 2		263	MAHU 500 FT	500/ St / FT	5435884	6358 89 6		141
LVG 45 FT	45/ ST / FT	5065463	6200 83 5		263	MAHU 500 FT	500/ St / FT	5435884	6358 89 6		274
LVG 60 FS	60/ ST / FS	5065555	6208 84 0		267	MAHU 600 FS	600/ St / FS	5435822	6358 86 8		141
LVG 60 FS	60/ ST / FS	5065555	6208 84 0		303	MAHU 600 FS	600/ St / FS	5435822	6358 86 8		274
LVG 60 FT	60/ ST / FT	5065562	6208 84 3		267	MAHU 600 FT	600/ St / FT	5435891	6358 90 0		141
LVG 60 FT	60/ ST / FT	5065562	6208 84 3		303	MAHU 600 FT	600/ St / FT	5435891	6358 90 0		274
LVG 60 VA4301	60/ V2A	5065579	6208 84 6		365	MAS 140 10 FT	1400/ ST / FT	6295753	6356 31 1		328
LVG 60 VA4301	60/ V2A	5065579	6208 84 6		373	MASD 90 FT	900/ ST / FT	6471195	6356 91 5		328
LVG 60 VA4571	60/ V4A	6666799	6208 83 5		394	MKS 110 FS	100 1/ ST / FS	6061815	6060 10 2	/m	221
LWVG 110 FS	110-110 / ST / FS	5065692	6216 58 7		272	MKS 120 FS	200 1/ ST / FS	6061877	6060 19 6		221
LWVG 110 VA4301	110-110 / V2A	5065708	6216 59 0		272	MKS 130 FS	300 1/ ST / FS	6061938	6060 30 7		221
LWVG 45 FS	45/ ST / FS	5065494	6200 88 2		264	MKS 140 FS	400 1/ ST / FS	6061990	6060 40 4		221
LWVG 45 VA4301	45/ V2A	5065500	6200 88 5		264	MKS 150 FS	500 1/ ST / FS	6062058	6060 41 2		221
LWVG 60 FS	60/ ST / FS	5065586	6208 89 5		268	MKS 155 FS	550 1/ ST / FS	6062119	6060 52 8		221
LWVG 60 FS	60/ ST / FS	5065586	6208 89 5		303	MKS 305 FS	50 1/ ST / FS	6386598	6053 51 3		199
LWVG 60 VA4301	60/ V2A	5065616	6208 89 8		268	MKS 305 FT	50 1/ ST / FT	6059232	6053 04 1		199

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Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
MKS 310 FS	100 1/ ST / FS	6059478	6053 54 8	/m	199	MKSU 620 FS	200 1/ ST / FS	6063673	6063 18 7	/m	206
MKS 310 FT	100 1/ ST / FT	6059294	6053 10 6		199	MKSU 620 FT	200 1/ ST / FT	6396856	6064 34 5		206
						MKSU 620 VA4301	200 0,8/ V2A	6064038	6063 78 0		349
MKS 315 FS	150 1/ ST / FS	6386659	6053 57 2		199	MKSU 630 FS	300 1/ ST / FS	6063734	6063 20 9		206
MKS 315 FT	150 1/ ST / FT	6386352	6053 16 5		199	MKSU 630 FT	300 1/ ST / FT	6396979	6064 39 6		206
						MKSU 630 VA4301	300 0,8/ V2A	6064090	6063 79 9		349
MKS 320 FS	200 1/ ST / FS	6059539	6053 59 9		199	MKSU 640 FS	400 1/ ST / FS	6063796	6063 22 5		206
MKS 320 FT	200 1/ ST / FT	6059355	6053 20 3		199	MKSU 640 FT	400 1/ ST / FT	6397099	6064 42 6		206
						MKSU 640 VA4301	400 1/ V2A	6064151	6063 84 5		349
MKS 330 FS	300 1/ ST / FS	6059591	6053 63 7		199	MKSU 650 VA4301	500 1/ V2A	6064212	6063 86 1		349
MKS 330 FT	300 1/ ST / FT	6059416	6053 30 0		199	MKSU 660 VA4301	600 1/ V2A	6064274	6063 88 8		349
MKS 605 FS	50 1/ St / FS	6387618	6055 05 2		204					/100 pc.	
MKS 605 FT	50 1/ ST / FT	6387854	6055 51 6		204	MMS10X100	10 x 100/ ST / G	5964049	3498 15 8		192
						MMS10X80	10 x 80/ ST / G	5963981	3498 12 3		192
MKS 610 FS	100 1/ St / FS	6059652	6055 10 9		204	MMS6X50	6 x 50 50/ ST / GC	5963929	3498 10 7		192
MKS 610 FT	100 1/ ST / FT	6060016	6055 53 2		204	MMS-ST6X60	M6 6 x 60/ St / G	5964162	3498 26 3		192
MKS 610 VA4301	100 1/ V2A	6389292	6056 01 6		349					/pc.	
MKS 615 FS	150 1/ St / FS	6387731	6055 14 1		204	MP 225 UNI FS	115 225/ ST / FS	5012245	7084 87 0		227
MKS 615 FT	150 1/ ST / FT	6387915	6055 55 9		204	MP FL DD	235 120/ ST / DD	5163268	7085 10 8		228
MKS 620 FS	200 1/ St / FS	6059713	6055 20 6		204	MP FL FS	235 120/ ST / FS	6146772	7084 75 7		228
MKS 620 FT	200 1/ ST / FT	6060078	6055 57 5		204	MP UNI DD	115 170/ ST / DD	5163312	7085 11 4		227
MKS 620 VA4301	200 1/ V2A	6389353	6056 02 4		349	MP UNI DD	115 170/ ST / DD	5163312	7085 11 4		253
MKS 630 FS	300 1/ St / FS	6059775	6055 30 3		204	MP UNI FS	115 170/ ST / FS	6146895	7084 77 3		227
MKS 630 FT	300 1/ ST / FT	6060139	6055 61 3		204	MP UNI FS	115 170/ ST / FS	6146895	7084 77 3		253
MKS 630 VA4301	300 1/ V2A	6389414	6056 04 0		349	MP UNI VA4301	115 170/ V2A	5166320	7085 13 3		354
MKS 640 FS	400 1/ St / FS	6059836	6055 40 0		204	MP WI GR. DD	240 200/ ST / DD	5286790	7085 11 2		228
MKS 640 FT	400 1/ ST / FT	6388035	6055 66 4		204	MP WI GR. FS	240 200/ ST / FS	6146956	7084 78 1		228
MKS 640 VA4301	400 1/ V2A	6389476	6056 05 9		349	MP WI KL. DD	210 120/ ST / DD	5163305	7085 11 1		228
						MP WI KL. FS	210 120/ ST / FS	6146833	7084 76 5		228
MKS 650 FS	500 1/ St / FS	6059898	6055 50 8		204	MPG 65 FT	81 65/ ST / FT	6933259	6006 48 6		253
MKS 650 FT	500 1/ ST / FT	6388097	6055 69 9		204	MPG 65 VA4404	81 65/ V4A	6933372	6006 48 8		362
MKS 650 VA4301	500 1/ V2A	6389537	6056 07 5		349	MPG 90 FT	111 95/ ST / FT	6933310	6006 48 7		253
MKS 660 FS	600 1/ St / FS	6059959	6055 52 4		204	MPG 90 VA4404	111 95/ V4A	6933433	6006 48 9		362
MKS 660 FT	600 1/ ST / FT	6388219	6055 71 0		204					/100 m	
MKS 660 VA4301	600 1/ V2A	6389599	6056 08 3		349	MS 22 L 3M FT	40x22,5/ ST / FT	5502517	1122 74 2		180
						MS 22 L 6M FT	40x22,5/ ST / FT	5502579	1122 74 6		180
MKS 810 FS	100 1/ ST / FS	6060733	6057 10 1		215	MS 41 LS 3M FT	41x41/ St / FT	5050735	1122 48 3		180
MKS 820 FS	200 1/ ST / FS	6060795	6057 20 9		215	MS 41 LS 6M FT	41x41/ St / FT	5050742	1122 48 7		180
MKS 830 FS	300 1/ ST / FS	6060856	6057 30 6		215					/pc.	
MKS 840 FS	400 1/ ST / FS	6060917	6057 40 3		215	MW 45 SL10 FT	/ ST / FT	6013692	6017 32 0		257
MKS 850 FS	500 1/ ST / FS	6060979	6057 50 0		215	MW 45 SL10VA4301	/ V2A	6013753	6017 33 9		363
MKS 860 FS	600 1/ ST / FS	6061037	6057 53 5		215	MW 90 SL17 FT	/ ST / FT	6013814	6017 34 7		258
						MW 90 SL17VA4301	/ V2A	6012855	6016 27 8		364
MKSU 610 FS	100 1/ ST / FS	6063611	6063 16 0		206	MW 90 SL23 FT	/ ST / FT	6013876	6017 35 5		258
MKSU 610 FT	100 1/ ST / FT	6396795	6064 30 2		206	MW 90 SL23VA4301	/ V2A	6012916	6016 30 8		364
MKSU 610 VA4301	100 0,8/ V2A	6063970	6063 77 2		349	MWA 12 11S FS	110 53/ St / FS	6636853	6424 71 6		159
MKSU 615 FS	150 1/ ST / FS	6394630	6063 17 9		206	MWA 12 21S FS	210 65/ St / FS	6636976	6424 73 2		159
MKSU 615 FT	150 1/ ST / FT	6026760	6064 31 9		206	MWA 12 31S FS	310 75/ St / FS	6637034	6424 74 0		159

Type listing

Structure of the EAN number: Country code **40**

Manufacturer code **1219** (for articles beginning with **0: 1010**)

Individual EAN-C **5647589**

Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
MWA 12 41S FS	410 83/ St / FS	6637096	6424 75 9	/pc.	159	RAA 610 FT	100/ ST / FT	6813131	7121 10 9	/pc.	239
						RAA 610 VA4301	100/ V2A	6821235	7136 12 0		353
MWAG 12 11 FS	110 53/ St / FS	6324736	6424 60 0		161						
MWAG 12 21 FS	210 65/ St / FS	6325030	6424 60 8		161	RAA 615 FS	150/ St / FS	6502639	6040 41 1		212
MWAG 12 31 FS	310 75/ St / FS	6325337	6424 61 6		161						
MWAG 12 41 FS	410 83/ St / FS	6325634	6424 62 4		161	RAA 615 FT	150/ ST / FT	6027002	7121 20 5		212
MWAM 12 11 FS	110 53/ St / FS	5438526	6424 55 0		160	RAA 620 FS	200/ St / FS	6379453	6040 43 8		239
MWAM 12 21 FS	210 65/ St / FS	5438533	6424 55 2		160	RAA 620 FS	200/ St / FS	6379453	6040 43 8		212
MWAM 12 31 FS	310 75/ St / FS	5438540	6424 55 4		160						
MWAM 12 41 FS	410 83/ St / FS	5438571	6424 55 6		160	RAA 620 FT	200/ ST / FT	6813193	7121 21 0		239
						RAA 620 FT	200/ ST / FT	6813193	7121 21 0		212
RAA 110 FS	100/ ST / FS	6819799	7002 63 7		224	RAA 620 VA4301	200/ V2A	6821297	7136 13 3		353
RAA 110 FS	100/ ST / FS	6819799	7002 63 7		239						
RAA 110 FT	100/ ST / FT	6813490	7123 11 6		224	RAA 630 FS	300/ St / FS	6379514	6040 44 6		239
RAA 110 FT	100/ ST / FT	6813490	7123 11 6		239	RAA 630 FS	300/ St / FS	6379514	6040 44 6		212
RAA 120 FS	200/ ST / FS	6819850	7002 65 3		224	RAA 630 FT	300/ ST / FT	6813254	7121 31 8		239
RAA 120 FS	200/ ST / FS	6819850	7002 65 3		239	RAA 630 FT	300/ ST / FT	6813254	7121 31 8		212
						RAA 630 VA4301	300/ V2A	6821358	7136 14 1		353
RAA 120 FT	200/ ST / FT	6813551	7123 21 3		224						
RAA 120 FT	200/ ST / FT	6813551	7123 21 3		239	RAA 640 FS	400/ St / FS	6212897	7002 39 4		212
						RAA 640 FS	400/ St / FS	6212897	7002 39 4		239
RAA 130 FS	300/ ST / FS	6819911	7002 68 8		224	RAA 640 FT	400/ ST / FT	6246373	7121 40 7		212
RAA 130 FS	300/ ST / FS	6819911	7002 68 8		239	RAA 640 FT	400/ ST / FT	6246373	7121 40 7		239
RAA 130 FT	300/ ST / FT	6813674	7123 31 0		224						
RAA 130 FT	300/ ST / FT	6813674	7123 31 0		239	RAA 650 FS	500/ St / FS	6212958	7002 41 6		212
						RAA 650 FS	500/ St / FS	6212958	7002 41 6		239
RAA 140 FS	400/ ST / FS	6213610	7002 69 6		224	RAA 650 FT	500/ ST / FT	6246434	7121 50 4		212
RAA 140 FS	400/ ST / FS	6213610	7002 69 6		240	RAA 650 FT	500/ ST / FT	6246434	7121 50 4		239
RAA 140 FT	400/ ST / FT	6247097	7123 39 6		224						
RAA 140 FT	400/ ST / FT	6247097	7123 39 6		240	RAA 660 FS	600/ St / FS	6213016	7002 43 2		212
						RAA 660 FS	600/ St / FS	6213016	7002 43 2		239
RAA 150 FS	500/ ST / FS	6213672	7002 72 6		224	RAA 660 FT	600/ ST / FT	6246496	7121 60 1		212
RAA 150 FS	500/ ST / FS	6213672	7002 72 6		240	RAA 660 FT	600/ ST / FT	6246496	7121 60 1		239
RAA 150 FT	500/ ST / FT	6247158	7123 50 7		224						
RAA 150 FT	500/ ST / FT	6247158	7123 50 7		240	RAA 810 FS	100/ ST / FS	6819614	7002 47 5		218
RAA 155 FS	550/ ST / FS	6213733	7002 73 4		224	RAA 810 FT	100/ ST / FT	6813315	7122 10 9		218
RAA 155 FS	550/ ST / FS	6213733	7002 73 4		240						
RAA 155 FT	550/ ST / FT	6247219	7123 55 8		224	RAA 820 FS	200/ ST / FS	6819676	7002 49 1		218
RAA 155 FT	550/ ST / FT	6247219	7123 55 8		240	RAA 820 FT	200/ ST / FT	6813377	7122 21 3		218
RAA 305 FS	50/ ST / FS	5069225	6040 31 4		201	RAA 830 FS	300/ ST / FS	6819737	7002 51 3		218
RAA 305 FT	50/ ST / FT	6812899	7120 06 0		201	RAA 830 FT	300/ ST / FT	6813438	7122 31 0		218
RAA 310 FS	100/ ST / FS	6453191	6040 32 2		201	RAA 840 FS	400/ ST / FS	6213252	7002 52 1		219
RAA 310 FT	100/ ST / FT	6812950	7120 11 7		201	RAA 840 FT	400/ ST / FT	6246731	7122 40 3		219
RAA 320 FS	200/ ST / FS	6449835	6040 34 9		201	RAA 850 FS	500/ ST / FS	6213313	7002 55 6		219
RAA 320 FT	200/ ST / FT	6813018	7120 21 4		201	RAA 850 FT	500/ ST / FT	6246793	7122 50 0		219
RAA 330 FS	300/ ST / FS	6453672	6040 35 7		201	RAA 860 FS	600/ ST / FS	6213375	7002 57 2		219
RAA 330 FT	300/ ST / FT	6813070	7120 31 1		201	RAA 860 FT	600/ ST / FT	6246854	7122 60 8		219
RAA 610 FS	100/ St / FS	6379392	6040 40 3		212	RAAU 640 VA4301	400/ V2A	6256877	7136 24 2		353
RAA 610 FS	100/ St / FS	6379392	6040 40 3		239	RAAU 650 VA4301	500/ V2A	6256938	7136 25 0		353
RAA 610 FT	100/ ST / FT	6813131	7121 10 9		212						

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Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
RAAU 660 VA4301	600/ V2A	6256990	7136 26 9	/pc.	353	RB 45 660 FT	600/ ST / FT	6224951	7066 60 0	/pc.	211
RB 45 110 FS	100/ ST / FS	6818594	7000 63 4		223	RB 45 810 FS	100/ ST / FS	6818419	7000 47 2		218
RB 45 110 FT	100/ ST / FT	6991280	7068 11 5		223	RB 45 810 FT	100/ ST / FT	6991105	7067 11 9		218
RB 45 120 FS	200/ ST / FS	6818778	7000 65 0		223	RB 45 820 FS	200/ ST / FS	6818471	7000 49 9		218
RB 45 120 FT	200/ ST / FT	6991341	7068 21 2		223	RB 45 820 FT	200/ ST / FT	6991167	7067 21 6		218
RB 45 130 FS	300/ ST / FS	6818839	7000 67 7		223	RB 45 830 FS	300/ ST / FS	6818532	7000 51 0		218
RB 45 130 FT	300/ ST / FT	6991402	7068 32 8		223	RB 45 830 FT	300/ ST / FT	6991228	7067 31 3		218
RB 45 140 FS	400/ ST / FS	6211098	7000 68 5		224	RB 45 840 FS	400/ ST / FS	6210732	7000 52 9		218
RB 45 140 FT	400/ ST / FT	6225552	7068 40 9		224	RB 45 840 FT	400/ ST / FT	6225194	7067 40 2		218
RB 45 150 FS	500/ ST / FS	6211159	7000 70 7		224	RB 45 850 FS	500/ ST / FS	6210794	7000 54 5		218
RB 45 150 FT	500/ ST / FT	6225613	7068 50 6		224	RB 45 850 FT	500/ ST / FT	6225255	7067 49 6		218
RB 45 155 FS	550/ ST / FS	6211210	7000 71 5		224	RB 45 860 FS	600/ ST / FS	6210855	7000 56 1		218
RB 45 155 FT	550/ ST / FT	6225675	7068 55 7		224	RB 45 860 FT	600/ ST / FT	6225316	7067 60 7		218
RB 45 305 FT	50/ ST / FT	6990689	7065 07 8		201	RB 90 110 FS	100/ ST / FS	6819430	7001 89 4		224
RB 45 310 FS	100/ ST / FS	6052035	6043 70 4		201	RB 90 110 FS	100/ ST / FS	6819430	7001 89 4		239
RB 45 310 FT	100/ ST / FT	6990740	7065 11 6		201	RB 90 110 FT	100/ ST / FT	6814695	7127 10 3		224
RB 45 315 FT	150/ ST / FT	6926893	7065 16 7		201	RB 90 110 FT	100/ ST / FT	6814695	7127 10 3		239
RB 45 320 FS	200/ ST / FS	6052097	6043 71 2		201	RB 90 120 FS	200/ ST / FS	6819492	7001 91 6		224
RB 45 320 FT	200/ ST / FT	6990801	7065 21 3		201	RB 90 120 FS	200/ ST / FS	6819492	7001 91 6		239
RB 45 330 FS	300/ ST / FS	6052158	6043 72 0		201	RB 90 120 FT	200/ ST / FT	6814756	7127 22 7		224
RB 45 330 FT	300/ ST / FT	6990863	7065 31 0		201	RB 90 120 FT	200/ ST / FT	6814756	7127 22 7		239
RB 45 610 FS	100/ ST / FS	6052271	6043 76 3		211	RB 90 130 FS	300/ ST / FS	6819553	7001 93 2		224
RB 45 610 FT	100/ ST / FT	6990924	7066 11 2		211	RB 90 130 FS	300/ ST / FS	6819553	7001 93 2		239
RB 45 615 FS	150/ ST / FS	6052219	6043 75 5		211	RB 90 130 FT	300/ ST / FT	6814817	7127 32 0		224
RB 45 615 FT	150/ ST / FT	6901579	7066 15 8		211	RB 90 130 FT	300/ ST / FT	6814817	7127 32 0		239
RB 45 620 FS	200/ ST / FS	6052332	6043 77 1		211	RB 90 140 FS	400/ ST / FS	6212354	7001 94 0		224
RB 45 620 FT	200/ ST / FT	6990986	7066 22 8		211	RB 90 140 FS	400/ ST / FS	6212354	7001 94 0		239
RB 45 630 FS	300/ ST / FS	6052394	6043 79 8		211	RB 90 140 FT	400/ ST / FT	6248414	7127 41 3		224
RB 45 630 FT	300/ ST / FT	6991044	7066 31 7		211	RB 90 140 FT	400/ ST / FT	6248414	7127 41 3		239
RB 45 640 FS	400/ ST / FS	6210374	7000 38 3		211	RB 90 150 FS	500/ ST / FS	6212415	7001 96 7		224
RB 45 640 FT	400/ ST / FT	6224838	7066 40 6		211	RB 90 150 FS	500/ ST / FS	6212415	7001 96 7		239
RB 45 650 FS	500/ ST / FS	6210435	7000 40 5		211	RB 90 150 FT	500/ ST / FT	6248476	7127 49 9		224
RB 45 650 FT	500/ ST / FT	6224890	7066 50 3		211	RB 90 150 FT	500/ ST / FT	6248476	7127 49 9		239
RB 45 660 FS	600/ ST / FS	6210497	7000 42 1		211	RB 90 155 FS	550/ ST / FS	6212477	7001 97 5		224
						RB 90 155 FS	550/ ST / FS	6212477	7001 97 5		239
						RB 90 155 FT	550/ ST / FT	6248537	7127 54 5		224
						RB 90 155 FT	550/ ST / FT	6248537	7127 54 5		239
						RB 90 305 FT	50/ ST / FT	6813858	7124 07 0		201
						RB 90 310 FS	100/ ST / FS	6050239	6043 11 9		201
						RB 90 310 FT	100/ ST / FT	6813919	7124 12 0		201

Type listing

Structure of the EAN number: Country code **40**

Manufacturer code **1219** (for articles beginning with **0: 1010**)

Individual EAN-C **5647589**

Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
RB 90 315 FS	150/ ST / FS	6926657	6043 12 3	/pc.	201	RB 90 850 FS	500/ ST / FS	6212057	7001 83 5	/pc.	218
RB 90 320 FS	200/ ST / FS	6050291	6043 12 7		201	RB 90 850 FT	500/ ST / FT	6248117	7126 51 4		218
RB 90 320 FT	200/ ST / FT	6813971	7124 23 6		201	RB 90 860 FS	600/ ST / FS	6212118	7001 85 1		218
RB 90 330 FS	300/ ST / FS	6050352	6043 13 5		201	RB 90 860 FT	600/ ST / FT	6248179	7126 61 1		218
RB 90 330 FT	300/ ST / FT	6814039	7124 32 5		201	RB45 610 VA4301	100/ V2A	6820696	7133 10 7		352
RB 90 610 FS	100/ St / FS	6050475	6043 21 6		212	RB45 620 VA4301	200/ V2A	6820757	7133 12 0		352
RB 90 610 FS	100/ St / FS	6050475	6043 21 6		238	RB45 630 VA4301	300/ V2A	6820818	7133 14 2		352
RB 90 610 FT	100/ ST / FT	6814091	7125 10 0		212	RB90 610 VA4301	100/ V2A	6820870	7134 12 2		353
RB 90 610 FT	100/ ST / FT	6814091	7125 10 0		238	RB90 620 VA4301	200/ V2A	6820931	7134 13 0		353
RB 90 615 FS	150/ St / FS	6050413	6043 20 8		212	RB90 630 VA4301	300/ V2A	6820993	7134 13 8		353
RB 90 615 FT	150/ ST / FT	6901753	7125 18 9		212	RBU 45 640VA4301	400/ V2A	6253630	7133 23 5		353
						RBU 45 650VA4301	500/ V2A	6253692	7133 24 3		353
						RBU 45 660VA4301	600/ V2A	6253753	7133 25 1		353
RB 90 620 FS	200/ St / FS	6050536	6043 22 4		238	RBU 90 640VA4301	400/ V2A	6254712	7134 23 1		353
RB 90 620 FS	200/ St / FS	6050536	6043 22 4		212	RBU 90 650VA4301	500/ V2A	6254774	7134 25 8		353
RB 90 620 FT	200/ ST / FT	6814152	7125 22 0		238	RBU 90 660VA4301	600/ V2A	6254835	7134 26 6		353
RB 90 620 FT	200/ ST / FT	6814152	7125 22 0		212	RBV 110 F FS	100 1/ St / FS	5711810	7007 35 0		226
						RBV 110 S FS	100 1/ St / FS	5711711	7007 31 0		225
RB 90 630 FS	300/ St / FS	6050598	6043 23 2		238	RBV 120 F FS	200 1/ St / FS	5711827	7007 35 4		226
RB 90 630 FS	300/ St / FS	6050598	6043 23 2		212	RBV 120 S FS	200 1/ St / FS	5711728	7007 31 4		225
RB 90 630 FT	300/ ST / FT	6814336	7125 30 5		238	RBV 130 F FS	300 1/ St / FS	5711834	7007 35 8		226
RB 90 630 FT	300/ ST / FT	6814336	7125 30 5		212	RBV 130 S FS	300 1/ St / FS	5711759	7007 31 8		225
RB 90 640 FS	400/ St / FS	6211630	7001 29 0		212	RBV 140 F FS	400 1/ St / FS	5711841	7007 36 2		226
RB 90 640 FS	400/ St / FS	6211630	7001 29 0		238	RBV 140 S FS	400 1/ St / FS	5711766	7007 32 2		225
RB 90 640 FT	400/ ST / FT	6247691	7125 41 0		212	RBV 150 F FS	500 1/ St / FS	5711872	7007 36 6		226
RB 90 640 FT	400/ ST / FT	6247691	7125 41 0		238	RBV 150 S FS	500 1/ St / FS	5711773	7007 32 6		225
RB 90 650 FS	500/ St / FS	6211692	7001 30 4		212	RBV 155 F FS	600 1/ St / FS	5711889	7007 37 0		226
RB 90 650 FS	500/ St / FS	6211692	7001 30 4		238	RBV 155 S FS	600 1/ St / FS	5711780	7007 33 0		225
RB 90 650 FT	500/ ST / FT	6247752	7125 52 6		212	RBV 305 F FS	50 1/ St / FS	5711469	7007 20 0		202
RB 90 650 FT	500/ ST / FT	6247752	7125 52 6		238	RBV 305 S FS	50 1/ St / FS	5711414	7007 17 0		202
						RBV 310 F FS	100 1/ St / FS	5711476	7007 20 4		202
						RBV 310 S FS	100 1/ St / FS	5711421	7007 17 4		202
RB 90 660 FS	600/ St / FS	6211753	7001 31 2		212	RBV 315 F FS	150 1/ St / FS	5711483	7007 20 8		202
RB 90 660 FS	600/ St / FS	6211753	7001 31 2		238	RBV 315 S FS	150 1/ St / FS	5711438	7007 17 8		202
RB 90 660 FT	600/ ST / FT	6247813	7125 58 5		212	RBV 320 F FS	200 1/ St / FS	5711513	7007 21 2		202
RB 90 660 FT	600/ ST / FT	6247813	7125 58 5		238	RBV 320 S FS	200 1/ St / FS	5711445	7007 18 2		202
RB 90 810 FS	100/ ST / FS	6818891	7001 76 2		218	RBV 330 F FS	300 1/ St / FS	5711520	7007 21 6		202
						RBV 330 S FS	300 1/ St / FS	5711452	7007 18 6		202
RB 90 810 FT	100/ ST / FT	6814510	7126 12 7		218	RBV 605 F FS	50/ ST / FS	5047438	7007 05 1		214
						RBV 605 S FS	50/ ST / FS	5047315	7007 00 1		214
RB 90 820 FS	200/ ST / FS	6819317	7001 78 9		218	RBV 610 F FS	100/ ST / FS	5047445	7007 05 5		214
RB 90 820 FT	200/ ST / FT	6814572	7126 21 6		218	RBV 610 S FS	100/ ST / FS	5047322	7007 00 5		214
						RBV 615 F FS	150/ ST / FS	5047452	7007 05 9		214
						RBV 615 S FS	150/ ST / FS	5047339	7007 00 9		214
RB 90 830 FS	300/ ST / FS	6819379	7001 80 0		218	RBV 620 F FS	200/ ST / FS	5047469	7007 06 3		214
RB 90 830 FT	300/ ST / FT	6814633	7126 30 1		218	RBV 620 S FS	200/ ST / FS	5047346	7007 01 3		214
						RBV 630 F FS	300/ ST / FS	5047490	7007 06 7		214
RB 90 840 FS	400/ ST / FS	6211999	7001 81 9		218	RBV 630 S FS	300/ ST / FS	5047377	7007 01 7		214
RB 90 840 FT	400/ ST / FT	6248056	7126 41 7		218	RBV 640 F FS	400/ ST / FS	5047506	7007 07 1		214
						RBV 640 S FS	400/ ST / FS	5047384	7007 02 1		214
						RBV 650 F FS	500/ ST / FS	5047513	7007 07 5		214

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Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
				/pc.						/pc.	
RBV 650 S FS	500/ ST / FS	5047391	7007 02 5		214	RGBEV 630 FS	300/ ST / FS	6216673	7005 36 9		214
						RGBEV 630 FT	300/ ST / FT	6228195	7075 30 8		214
RBV 660 F FS	600/ ST / FS	5047520	7007 07 9		214						
RBV 660 S FS	600/ ST / FS	5047407	7007 02 9		214	RGBEV 640 FS	400/ ST / FS	6216734	7005 38 5		214
						RGBEV 640 FT	400/ ST / FT	6228256	7075 40 5		214
RBV 810 F FS	100 1/ St / FS	5711636	7007 27 0		219						
RBV 810 S FS	100 1/ St / FS	5711537	7007 23 0		219	RGBEV 650 FS	500/ ST / FS	6216796	7005 40 7		214
						RGBEV 650 FT	500/ ST / FT	6228317	7075 50 2		214
RBV 820 F FS	200 1/ St / FS	5711643	7007 27 4		219						
RBV 820 S FS	200 1/ St / FS	5711544	7007 23 4		219	RGBEV 660 FS	600/ ST / FS	6216857	7005 42 3		214
						RGBEV 660 FT	600/ ST / FT	6228379	7075 59 6		214
RBV 830 F FS	300 1/ St / FS	5711650	7007 27 8		219						
RBV 830 S FS	300 1/ St / FS	5711575	7007 23 8		219	RGBEV 810 FS	100/ ST / FS	6216918	7005 46 6		220
						RGBEV 810 FT	100/ ST / FT	6228430	7076 09 6		220
RBV 840 F FS	400 1/ St / FS	5711667	7007 28 2		219						
RBV 840 S FS	400 1/ St / FS	5711582	7007 24 2		219	RGBEV 820 FS	200/ ST / FS	6216970	7005 48 2		220
						RGBEV 820 FT	200/ ST / FT	6228492	7076 20 7		220
RBV 850 F FS	500 1/ St / FS	5711698	7007 28 6		219						
RBV 850 S FS	500 1/ St / FS	5711599	7007 24 6		219	RGBEV 830 FS	300/ ST / FS	6217038	7005 50 4		220
						RGBEV 830 FT	300/ ST / FT	6228553	7076 30 4		220
RBV 860 F FS	600 1/ St / FS	5711704	7007 29 0		219						
RBV 860 S FS	600 1/ St / FS	5711605	7007 25 0		219	RGBEV 840 FS	400/ ST / FS	6217090	7005 52 0		220
						RGBEV 840 FT	400/ ST / FT	6228614	7076 40 1		220
REV 110 DD	110-110 / ST / DD	6067817	6069 33 9		223						
REV 110 FS	110-110 / ST / FS	6066438	6067 99 9		223	RGBEV 850 FS	500/ ST / FS	6217151	7005 54 7		220
						RGBEV 850 FT	500/ ST / FT	6228676	7076 50 9		220
REV 35 DD	35/ ST / DD	6067633	6069 30 4		200						
						RGBEV 860 FS	600/ ST / FS	6217212	7005 56 3		220
REV 35 FS	35/ ST / FS	6066254	6067 95 6		200	RGBEV 860 FT	600/ ST / FT	6228737	7076 60 6		220
REV 60 DD	60-60 / ST / DD	6337033	6069 41 0		211	RGBV 110 FS	100/ ST / FS	6218592	7006 62 4		226
						RGBV 110 FT	100/ ST / FT	6230112	7081 10 3		226
REV 60 FS	60-60 / ST / FS	6066315	6067 97 2		211						
						RGBV 120 FS	200/ ST / FS	6218653	7006 64 0		226
REV 60 VA4301	60/ V2A	6066490	6068 02 2		352	RGBV 120 FT	200/ ST / FT	6230174	7081 20 0		226
REV 60 VA4571	60-60 / V4A	5021483	6068 05 4		390						
						RGBV 130 FT	300/ ST / FT	6230235	7081 30 8		226
REV 85 DD	85-85 / ST / DD	6067756	6069 32 0		217						
						RGBV 140 FS	400/ ST / FS	6218776	7006 68 3		226
REV 85 FS	85-85 / ST / FS	6066377	6067 98 0		217	RGBV 140 FT	400/ ST / FT	6230297	7081 40 5		226
RGBEV 110 FS	100/ ST / FS	6217274	7005 62 8		226	RGBV 150 FS	500/ ST / FS	6218837	7006 70 5		226
RGBEV 110 FT	100/ ST / FT	6228799	7077 10 6		226	RGBV 150 FT	500/ ST / FT	6230358	7081 50 2		226
RGBEV 120 FS	200/ ST / FS	6217335	7005 64 4		226	RGBV 155 FT	550/ ST / FT	6230419	7081 55 3		226
RGBEV 120 FT	200/ ST / FT	6228850	7077 20 3		226						
						RGBV 610 FS	100/ ST / FS	6217878	7006 32 2		214
RGBEV 130 FS	300/ ST / FS	6217397	7005 66 0		226	RGBV 610 FT	100/ ST / FT	6229390	7079 10 9		214
RGBEV 130 FT	300/ ST / FT	6228911	7077 30 0		226	RGBV 610 VA4301	100/ V2A	6258499	7138 11 3		353
RGBEV 140 FS	400/ ST / FS	6217458	7005 68 7		226	RGBV 615 FS	150/ ST / FS	6500352	7006 33 0		214
RGBEV 140 FT	400/ ST / FT	6228973	7077 40 8		226	RGBV 615 FT	150/ ST / FT	6984985	7079 14 1		214
RGBEV 150 FS	500/ ST / FS	6217519	7005 70 9		226	RGBV 620 FS	200/ ST / FS	6217939	7006 34 9		214
RGBEV 150 FT	500/ ST / FT	6229031	7077 50 5		226	RGBV 620 FT	200/ ST / FT	6229451	7079 20 6		214
RGBEV 155 FS	550/ ST / FS	6217571	7005 71 7		226	RGBV 620 VA4301	200/ V2A	6258550	7138 12 1		353
RGBEV 155 FT	550/ ST / FT	6229093	7077 55 6		226						
						RGBV 630 FS	300/ ST / FS	6217991	7006 36 5		214
RGBEV 305 FS	50/ ST / FS	6216314	7005 00 8		202	RGBV 630 FT	300/ ST / FT	6229512	7079 30 3		214
RGBEV 305 FT	50/ ST / FT	6227839	7074 05 0		202	RGBV 630 VA4301	300/ V2A	6258611	7138 14 8		353
RGBEV 310 FS	100/ ST / FS	6216376	7005 02 4		202	RGBV 640 FS	400/ ST / FS	6218059	7006 38 1		214
RGBEV 310 FT	100/ ST / FT	6227891	7074 10 7		202	RGBV 640 FT	400/ ST / FT	6229574	7079 40 0		214
RGBEV 315 FS	150/ ST / FS	6947416	7005 01 6		202	RGBV 640 VA4301	400/ V2A	6258673	7138 15 6		353
RGBEV 315 FT	150/ ST / FT	6947478	7074 15 8		202						
						RGBV 650 FS	500/ ST / FS	6218110	7006 41 1		214
RGBEV 320 FS	200/ ST / FS	6216437	7005 04 0		202	RGBV 650 FT	500/ ST / FT	6229635	7079 50 8		214
RGBEV 320 FT	200/ ST / FT	6227952	7074 20 4		202						
						RGBV 660 FS	600/ ST / FS	6218172	7006 44 6		214
RGBEV 330 FS	300/ ST / FS	6216499	7005 06 7		202	RGBV 660 FT	600/ ST / FT	6229697	7079 60 5		214
RGBEV 330 FT	300/ ST / FT	6228010	7074 30 1		202	RGBV 660 VA4301	600/ V2A	6258796	7138 17 2		353
RGBEV 610 FS	100/ ST / FS	6216550	7005 32 6		214	RGBV 810 FS	100/ ST / FS	6218233	7006 46 2		219
RGBEV 610 FT	100/ ST / FT	6228072	7075 10 3		214	RGBV 810 FT	100/ ST / FT	6229758	7080 10 7		219
RGBEV 615 FS	150/ ST / FS	6500239	7005 33 4		214						
RGBEV 615 FT	150/ ST / FT	6511877	7075 15 4		214	RGBV 820 FS	200/ ST / FS	6218295	7006 48 9		219
						RGBV 820 FT	200/ ST / FT	6229819	7080 20 4		219
RGBEV 620 FS	200/ ST / FS	6216611	7005 34 2		214						
RGBEV 620 FT	200/ ST / FT	6228133	7075 20 0		214	RGBV 830 FS	300/ ST / FS	6218356	7006 50 0		219
						RGBV 830 FT	300/ ST / FT	6229871	7080 30 1		219

Type listing

Structure of the EAN number: Country code **40**

Manufacturer code **1219** (for articles beginning with **0: 1010**)

Individual EAN-C **5647589**

Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
RGBV 840 FS	400/ ST / FS	6218417	7006 52 7	/pc.	219	RK 630 FT	300/ ST / FT	6991822	7113 31 5	/pc.	213
RGBV 840 FT	400/ ST / FT	6229932	7080 40 9		219						
RGBV 850 FS	500/ ST / FS	6218479	7006 54 3		219	RK 640 FS	400/ ST / FS	6215416	7004 39 7		213
RGBV 850 FT	500/ ST / FT	6229994	7080 50 6		219	RK 640 FT	400/ ST / FT	6243730	7113 40 4		213
RGBV 860 FS	600/ ST / FS	6218530	7006 57 8		219						
RGBV 860 FT	600/ ST / FT	6230051	7080 60 3		219	RK 650 FS	500/ ST / FS	6215478	7004 41 9		213
						RK 650 FT	500/ ST / FT	6243792	7113 50 1		213
RGV 110 FS	110/ ST / FS	6230655	7082 03 7		223						
RGV 110 FT	110/ ST / FT	6230952	7082 43 6		223	RK 660 FS	600/ ST / FS	6215539	7004 43 5		213
						RK 660 FT	600/ ST / FT	6243853	7113 60 9		213
RGV 35 FS	35/ ST / FS	6230471	7082 00 2		200					/m	
RGV 35 FT	35/ ST / FT	6230716	7082 12 6		200						
						RKSM 310 FS	100 0,75/ St / FS	5390848	6047 41 7		198
RGV 60 FS	60-60 / ST / FS	6230532	7082 01 0		210	RKSM 320 FS	200 0,75/ St / FS	5390855	6047 43 3		198
RGV 60 FT	60-60 / ST / FT	6230778	7082 22 3		210	RKSM 330 FS	300 0,75/ St / FS	5390862	6047 46 0		198
RGV 60 VA4301	60/ V2A	6230839	7082 25 8		352						
RGV 60 VA4571	60/ V4A	6080113	7082 26 5		389	RKSM 610 FS	100 0,75/ St / FS	5390879	6047 61 1		203
						RKSM 610 VA4301	100 0,75/ V2A	5706083	6047 61 3		348
RGV 85 FS	85-85 / ST / FS	6230594	7082 02 9		217	RKSM 610 VA4571	100 0,75/ V4A	5706113	6047 61 4		387
RGV 85 FT	85-85 / ST / FT	6230891	7082 32 0		217						
						RKSM 615 FS	150 0,75/ St / FS	5391197	6047 63 0		203
RK 110 FS	100/ ST / FS	6820511	7004 64 8		225	RKSM 615 VA4301	150 0,75/ V2A	5706120	6047 63 2		348
RK 110 FT	100/ ST / FT	6990085	7115 11 3		225	RKSM 615 VA4571	150 0,75/ V4A	5706137	6047 63 3		387
RK 120 FS	200/ ST / FS	6820573	7004 66 4		225	RKSM 620 FS	200 0,75/ St / FS	5391203	6047 63 8		203
RK 120 FT	200/ ST / FT	6811878	7115 21 0		225	RKSM 620 VA4301	200 0,75/ V2A	5706144	6047 64 0		348
						RKSM 620 VA4571	200 0,75/ V4A	5706175	6047 64 1		387
RK 130 FS	300/ ST / FS	6820634	7004 68 0		225	RKSM 630 FS	300 0,75/ St / FS	5391210	6047 65 4		203
RK 130 FT	300/ ST / FT	6811939	7115 31 8		225	RKSM 630 VA4301	300 0,75/ V2A	5706182	6047 65 6		348
						RKSM 630 VA4571	300 0,75/ V4A	5706199	6047 65 7		387
RK 140 FS	400/ ST / FS	6216130	7004 69 9		225						
RK 140 FT	400/ ST / FT	6244454	7115 40 7		225	RKSM 640 FS	400 0,9/ St / FS	5391227	6047 68 9		203
						RKSM 640 VA4301	400 0,9/ V2A	5706205	6047 69 1		348
RK 150 FS	500/ ST / FS	6216192	7004 71 0		225	RKSM 640 VA4571	400 0,9/ V4A	5706236	6047 69 2		387
RK 150 FT	500/ ST / FT	6244515	7115 50 4		225	RKSM 650 FS	500 0,9/ St / FS	5391234	6047 71 9		203
						RKSM 650 VA4301	500 0,9/ V2A	5706243	6047 72 1		348
RK 155 FS	550/ ST / FS	6216253	7004 72 9		225	RKSM 650 VA4571	500 0,9/ V4A	5706250	6047 72 2		387
RK 155 FT	550/ ST / FT	6244577	7115 55 5		225						
						RKSM 660 FS	600 0,9/ St / FS	5391241	6047 73 5		203
RK 610 FS	100/ ST / FS	6051670	6043 61 5		213	RKSM 660 VA4301	600 0,9/ V2A	5706267	6047 73 7		348
RK 610 FT	100/ ST / FT	6991709	7113 11 0		213	RKSM 660 VA4571	600 0,9/ V4A	5706298	6047 73 8		387
										/pc.	
RK 615 FS	150/ ST / FS	6051618	6043 60 7		213	RLVK 35 FS	35/ ST / FS	6065356	6067 08 5		200
RK 615 FT	150/ ST / FT	6901630	7113 15 8		213	RLVK 35 FT	35/ ST / FT	6065714	6067 30 1		200
RK 620 FS	200/ ST / FS	6051731	6043 62 3		213	RLVK 60 FS	60-60 / St / FS	6065417	6067 09 3		210
RK 620 FT	200/ ST / FT	6991761	7113 21 8		213	RLVK 60 FT	60-60 / ST / FT	6065899	6067 60 3		210
						RLVK 60 VA4301	60-60 / V2A	6066018	6067 65 4		352
RK 630 FS	300/ ST / FS	6051793	6043 63 1		213	RLVK 60 VA4571	60-60 / V4A	6955459	6067 67 5		389

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Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
RLVL 110 FS	110-110 / ST / FS	6065653	6067 13 1	/pc.	223	RV 320 FS	35 200/ ST / FS	6066674	6068 11 1	/pc.	200
RLVL 110 FT	110-110 / ST / FT	6066193	6067 91 3		223	RV 330 FS	35 300/ ST / FS	6066735	6068 13 8		200
RLVL 85 FS	85-85 / ST / FS	6065592	6067 12 3		217	RV 605 FS	60-60 50/ St / FS	6049325	6068 14 6		210
RLVL 85 FT	85-85 / ST / FT	6066131	6067 81 6		217	RV 607 FS	60-60 75/ St / FS	6897070	6068 15 0		318
						RV 607 FS	60-60 75/ St / FS	6897070	6068 15 0		210
RT 110 FS	100/ ST / FS	6820153	7003 63 3		225	RV 610 DD	60-60 100/ ST / DD	5074526	6068 35 1		210
RT 110 FT	100/ ST / FT	6812714	7119 11 9		225	RV 610 FS	60-60 100/ St / FS	6066797	6068 15 4		210
RT 120 FS	200/ ST / FS	6820214	7003 66 8		225	RV 615 DD	60-60 150/ ST / DD	5074557	6068 35 5		210
RT 120 FT	200/ ST / FT	6812776	7119 21 6		225	RV 615 FS	60-60 150/ St / FS	6066858	6068 16 2		210
RT 130 FS	300/ ST / FS	6820276	7003 68 4		225	RV 620 DD	60-60 200/ ST / DD	5074564	6068 35 9		210
RT 130 FT	300/ ST / FT	6812837	7119 31 3		225	RV 620 FS	60-60 200/ St / FS	6066919	6068 17 0		210
RT 140 FS	400/ ST / FS	6214877	7003 69 2		225	RV 630 DD	60-60 300/ ST / DD	5074571	6068 36 3		210
RT 140 FT	400/ ST / FT	6245772	7119 40 2		225	RV 630 FS	60-60 300/ St / FS	6066971	6068 18 9		210
RT 150 FS	500/ ST / FS	6214938	7003 71 4		225	RV 640 DD	60-60 400/ ST / DD	5074588	6068 36 7		210
RT 150 FT	500/ ST / FT	6245833	7119 49 6		225	RV 640 FS	60-60 400/ St / FS	6067039	6068 19 7		210
RT 155 FS	550/ ST / FS	6214990	7003 72 2		225	RV 650 DD	60-60 500/ ST / DD	5074618	6068 37 1		210
RT 155 FT	550/ ST / FT	6245895	7119 55 0		225	RV 650 FS	60-60 500/ St / FS	6067091	6068 20 0		210
RT 610 FS	100/ ST / FS	6051076	6043 41 0		213	RV 660 DD	60-60 600/ ST / DD	5074625	6068 37 5		210
RT 610 FT	100/ ST / FT	6812356	7117 11 6		213	RV 660 FS	60-60 600/ St / FS	6067152	6068 21 9		210
RT 615 FS	150/ ST / FS	6051014	6043 40 2		213	RVS 110 10 DD	100 110/ ST / DD	5079088	6068 78 9		238
RT 615 FT	150/ ST / FT	6901692	7117 16 2		213	RVS 110 20 DD	200 110/ ST / DD	5079118	6068 79 1		238
RT 620 FS	200/ ST / FS	6051137	6043 42 9		213	RVS 110 30 DD	300 110/ ST / DD	5079125	6068 79 3		238
RT 620 FT	200/ ST / FT	6812417	7117 20 9		213	RVS 110 40 DD	400 110/ ST / DD	5079132	6068 79 5		238
RT 630 FS	300/ ST / FS	6051199	6043 43 7		213	RVS 110 50 DD	500 110/ ST / DD	5079149	6068 79 7		238
RT 630 FT	300/ ST / FT	6812479	7117 30 6		213	RVS 110 55 DD	550 110/ ST / DD	5079170	6068 79 9		238
RT 640 FS	400/ ST / FS	6214150	7003 39 0		213	RVS 60 10 DD	100 60/ ST / DD	5079002	6068 77 1		238
RT 640 FT	400/ ST / FT	6245055	7117 39 6		213	RVS 60 20 DD	200 60/ ST / DD	5079019	6068 77 3		238
RT 650 FS	500/ ST / FS	6214211	7003 41 2		213	RVS 60 30 DD	300 60/ ST / DD	5079026	6068 77 5		238
RT 650 FT	500/ ST / FT	6245116	7117 50 7		213	RVS 60 40 DD	400 60/ ST / DD	5079057	6068 77 7		238
RT 660 FS	600/ ST / FS	6214273	7003 43 9		213	RVS 60 50 DD	500 60/ ST / DD	5079064	6068 77 9		238
RT 660 FT	600/ ST / FT	6245178	7117 60 4		213	RVS 60 60 DD	600 60/ ST / DD	5079071	6068 78 1		238
RV 305 FS	35 50/ ST / FS	6066551	6068 08 1		200	RWEB 110 DD	110-110 100/ ST / DD	6241033	7107 45 5		223
RV 310 FS	35 100/ ST / FS	6066612	6068 10 3		200	RWEB 110 FS	110-110 100/ ST / FS	6242771	7111 09 6		223
						RWEB 120 DD	110-110 200/ ST / DD	6241095	7107 47 1		223
						RWEB 120 FS	110-110 200/ ST / FS	6242894	7111 20 7		223

Type listing

Structure of the EAN number: Country code **40**

Manufacturer code **1219** (for articles beginning with **0: 1010**)

Individual EAN-C **5647589**

Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
RWEB 130 DD	110-110 300/ ST / DD	6241156	7107 50 1	/pc.	223	RWEB 810 FS	100/ ST / FS	6242412	7110 10 3	/pc.	217
RWEB 130 FS	110-110 300/ ST / FS	6243013	7111 30 4		223	RWEB 820 DD	200/ ST / DD	6240739	7107 33 1		217
RWEB 140 DD	110-110 400/ ST / DD	6241217	7107 53 6		223	RWEB 820 FS	200/ ST / FS	6242474	7110 20 0		217
RWEB 140 FS	110-110 400/ ST / FS	6243136	7111 42 8		223	RWEB 830 DD	300/ ST / DD	6240791	7107 36 6		217
RWEB 150 DD	110-110 500/ ST / DD	6241279	7107 55 2		223	RWEB 830 FS	300/ ST / FS	6242535	7110 30 8		217
RWEB 150 FS	110-110 500/ ST / FS	6243198	7111 50 9		223	RWEB 840 DD	400/ ST / DD	6240852	7107 38 2		217
RWEB 155 DD	110-110 550/ ST / DD	6241330	7107 56 0		223	RWEB 840 FS	400/ ST / FS	6242597	7110 40 5		217
RWEB 155 FS	110-110 550/ ST / FS	6243259	7111 54 1		223	RWEB 850 DD	500/ ST / DD	6240913	7107 40 4		217
RWEB 305 FS	50/ ST / FS	6241392	7108 05 2		201	RWEB 850 FS	500/ ST / FS	6242658	7110 50 2		217
RWEB 310 DD	100/ ST / DD	6240135	7107 01 3		201	RWEB 860 DD	600/ ST / DD	6240975	7107 42 0		217
RWEB 310 FS	100/ ST / FS	6241453	7108 10 9		201	RWEB 860 FS	600/ ST / FS	6242719	7110 61 8		217
RWEB 320 DD	200/ ST / DD	6240197	7107 04 8		201	RWVL 35 FS	35-35 / ST / FS	6065479	6067 10 7		200
RWEB 320 FS	200/ ST / FS	6241514	7108 20 6		201	RWVL 35 FT	35-35 / ST / FT	6065776	6067 32 8		200
RWEB 330 DD	300/ ST / DD	6240258	7107 06 4		201	RWVL 60 FS	60-60 / St / FS	6065530	6067 11 5		210
RWEB 330 FS	300/ ST / FS	6241576	7108 31 1		201	RWVL 60 FT	60-60 / ST / FT	6065950	6067 61 1		210
RWEB 605 DD	60-60 50/ St / DD	6988525	7107 14 5		211	RWVL 60 VA4301	60/ V2A	6066070	6067 66 2		352
RWEB 610 DD	60-60 100/ St / DD	6982820	7106 10 6		211	RWVL 60 VA4571	60/ V4A	6343157	6067 66 4		389
RWEB 610 FS	60-60 100/ ST / FS	6241637	7109 10 5		211	SA CPS 4 FT	/ St / FT	5439448	6007 49 6	/pair	306
RWEB 610 VA4301	60-60 100/ V2A	6242054	7109 81 4		352	SAA CPS 4 FT	/ St / FT	5439479	6007 49 8		306
RWEB 615 DD	60-60 150/ St / DD	6308170	7106 11 0		211	SF 140 11 FT	/ ST / FT	6295814	6356 39 7	/pc.	328
RWEB 615 FS	60-60 150/ ST / FS	6241699	7109 15 6		211	SH KAB 20 FS	20/ ST / FS	6649990	6015 42 5		253
RWEB 620 DD	60-60 200/ St / DD	6982769	7106 11 4		211	SH KAB 25 FS	25/ ST / FS	6650057	6015 43 3	/pc.	253
RWEB 620 FS	60-60 200/ ST / FS	6241750	7109 20 2		211	SH M10 FS	M10/ St / FS	6608539	6015 33 6		253
RWEB 620 VA4301	60-60 200/ V2A	6242115	7109 83 0		352	SH M10 FT	M10/ ST / FT	6951970	6015 33 8	/pair	253
RWEB 630 DD	60-60 300/ St / DD	6982707	7106 11 8		211	SH M10 VA4401	M10/ V4A	6952038	6015 34 0		361
RWEB 630 FS	60-60 300/ ST / FS	6241811	7109 29 6		211	SH M10 VA4401	M10/ V4A	6952038	6015 34 0	/pair	393
RWEB 630 VA4301	60-60 300/ V2A	6242177	7109 85 7		352	SKH 110 OR	Pastel orange/ PE	5668015	6222 55 3		271
RWEB 640 DD	60-60 400/ St / DD	6024612	7106 12 2		211	SKH 45 OR	Pastel orange/ PE	5667995	6222 50 2	/pc.	263
RWEB 640 FS	60-60 400/ ST / FS	6241873	7109 40 7		211	SKH 60 OR	Pastel orange/ PE	5668008	6222 53 7		267
RWEB 640 VA4301	60-60 400/ V2A	6242238	7109 87 3		352	SKH 60 OR	Pastel orange/ PE	5668008	6222 53 7	/100 pc.	303
RWEB 650 DD	60-60 500/ St / DD	6024735	7106 12 6		211	SKH 60 OR	Pastel orange/ PE	5668008	6222 53 7		365
RWEB 650 FS	60-60 500/ ST / FS	6241934	7109 50 4		211	SKH 60 OR	Pastel orange/ PE	5668008	6222 53 7	/100 pc.	373
RWEB 650 VA4301	60-60 500/ V2A	6242290	7109 90 3		352	SKH 60 OR	Pastel orange/ PE	5668008	6222 53 7		394
RWEB 660 DD	60-60 600/ St / DD	6034697	7106 13 0		211	SKHW 110 OR	Pastel orange/ PE	5668022	6310 39 8	/100 pc.	286
RWEB 660 FS	60-60 600/ ST / FS	6241996	7109 60 1		211	SKHW 110 OR	Pastel orange/ PE	5668022	6310 39 8		371
RWEB 660 VA4301	60-60 600/ V2A	6242351	7109 93 8		352	SKS 10X110 G	M10 x 110 110/ ST / G	6348794	6418 24 4	/pc.	140
RWEB 810 DD	100/ ST / DD	6240678	7107 31 5		217	SKS 10X110 G	M10 x 110 110/ ST / G	6348794	6418 24 4		322
						SKS 10X120 F	M10 x 120 120/ St / F	5505631	3160 79 3	/100 pc.	154
						SKS 10X120 F	M10 x 120 120/ St / F	5505631	3160 79 3		187

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Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
SKS 10X25 F	M10 x 25 25/ St / F	5257233	3160 73 4	/100 pc.	187	SKS 620 FS	200 1,5/ St / FS	6060252	6056 20 2	/m	205
SKS 10X30 F	M10 x 30 30/ St / F	5257295	3160 74 2		187	SKS 620 FT	200 1,5/ ST / FT	6390076	6056 65 2		205
SKS 10X40 F	M10 x 40 40/ St / F	5257356	3160 75 0		187	SKS 620 VA4301	200 1,5/ V2A	6120611	6056 73 7		350
						SKS 620 VA4571	200 1,5/ V4A	6044887	6056 75 5		388
SKS 10X60 F	M10 x 60 60/ St / F	6202157	6408 51 6		148	SKS 630 FS	300 1,5/ St / FS	6060313	6056 29 6		205
SKS 10X60 F	M10 x 60 60/ St / F	6202157	6408 51 6		187	SKS 630 FT	300 1,5/ ST / FT	6390137	6056 67 9		205
						SKS 630 VA4301	300 1,5/ V2A	6120673	6056 73 9		350
						SKS 630 VA4571	300 1,5/ V4A	6050161	6056 75 7		388
				/pc.		SKS 640 FS	400 1,5/ St / FS	6060375	6056 40 7		205
SKS 10X80 F	M10 x 80 80/ St / F	6437474	6418 25 0		151	SKS 640 FT	400 1,5/ ST / FT	6060559	6056 69 5		205
SKS 10X80 F	M10 x 80 80/ St / F	6437474	6418 25 0		154	SKS 640 VA4301	400 1,5/ V2A	6120734	6056 74 2		350
SKS 10X80 F	M10 x 80 80/ St / F	6437474	6418 25 0		187	SKS 640 VA4571	400 1,5/ V4A	6050284	6056 75 9		388
SKS 10X80 VA4401	M10 x 80 80/ V4A	6822133	6418 24 8		337	SKS 650 FS	500 1,5/ St / FS	6060436	6056 50 4		205
SKS 10X80 VA4401	M10 x 80 80/ V4A	6822133	6418 24 8		339	SKS 650 FT	500 1,5/ ST / FT	6060610	6056 71 7		205
SKS 10X80 VA4401	M10 x 80 80/ V4A	6822133	6418 24 8		381	SKS 650 VA4301	500 1,5/ V2A	6120796	6056 74 4		350
SKS 10X80 VA4401	M10 x 80 80/ V4A	6822133	6418 24 8		383	SKS 650 VA4571	500 1,5/ V4A	6050406	6056 76 1		388
SKS 10X90 F	M10 x 90 90/ St / F	6518470	6418 25 2		151	SKS 660 FS	600 1,5/ St / FS	6060498	6056 60 1		205
SKS 10X90 F	M10 x 90 90/ St / F	6518470	6418 25 2		154	SKS 660 FT	600 1,5/ ST / FT	6060672	6056 73 3		205
SKS 10X90 F	M10 x 90 90/ St / F	6518470	6418 25 2		187	SKS 660 VA4301	600 1,5/ V2A	6120857	6056 74 6		350
				/m		SKS 660 VA4571	600 1,5/ V4A	6050529	6056 76 3		388
SKS 110 FS	100 1,5/ ST / FS	6062171	6061 10 9		221					/100 pc.	186
SKS 110 FT	100 1,5/ ST / FT	6062539	6061 60 5		221	SKS 6X12 F	M6 x 10 12/ ST / F	5255857	3156 49 4		186
SKS 120 FS	200 1,5/ ST / FS	6062232	6061 20 6		221	SKS 6X20 F	M6 x 20 20/ ST / F	5255970	3156 51 6		186
SKS 120 FT	200 1,5/ ST / FT	6062591	6061 62 1		221	SKS 6X30 F	M6 x 30 30/ ST / F	5256038	3156 52 4		186
				/pc.						/m	
SKS 12X100 F	M12 x 100 100/ St / F	6204496	6418 29 5		158	SKS 810 FS	100 1,5/ ST / FS	6061099	6058 10 8		215
SKS 12X100 F	M12 x 100 100/ St / F	6204496	6418 29 5		187	SKS 810 FT	100 1,5/ ST / FT	6061457	6058 62 0		215
SKS 12X100VA4401	M12 x 100 100/ V4A	6204618	6418 36 8		342						
SKS 12X110 F	M12 x 110 110/ St / F	6204557	6418 31 7		158	SKS 820 FS	200 1,5/ ST / FS	6061150	6058 20 5		215
SKS 12X110 F	M12 x 110 110/ St / F	6204557	6418 31 7		187	SKS 820 FT	200 1,5/ ST / FT	6061518	6058 64 7		215
SKS 12X110VA4401	M12 x 110 110/ V4A	6204670	6418 37 6		342						
				/100 pc.		SKS 830 FS	300 1,5/ ST / FS	6061211	6058 30 2		215
SKS 12X130 F	M12 x 130 130/ St / F	6479535	6408 47 8		158	SKS 830 FT	300 1,5/ ST / FT	6061570	6058 66 3		215
SKS 12X130 F	M12 x 130 130/ St / F	6479535	6408 47 8		187						
SKS 12X30 F	M12 x 30 30/ St / F	5258070	3163 09 1		187	SKS 840 FS	400 1,5/ ST / FS	6061273	6058 39 6		215
SKS 12X40 F	M12 x 40 40/ St / F	5258131	3163 11 3		187	SKS 840 FT	400 1,5/ ST / FT	6061631	6058 69 8		215
SKS 12X40 G F	M12 x 40 40/ ST / F	5317418	3164 02 0		177						
SKS 12X60 F	M12 x 60 60/ St / F	5258254	3163 15 6		187	SKS 850 FS	500 1,5/ ST / FS	6061334	6058 50 7		215
						SKS 850 FT	500 1,5/ ST / FT	6061693	6058 72 8		215
				/pc.		SKS 860 FS	600 1,5/ ST / FS	6061396	6058 60 4		215
SKS 12X80 F	M12 x 80 80/ St / F	6204434	6418 28 7		158	SKS 860 FT	600 1,5/ ST / FT	6061754	6058 74 4		215
SKS 12X80 F	M12 x 80 80/ St / F	6204434	6418 28 7		187					/100 pc.	187
SKS 12X80 VA4401	M12 x 80 80/ V4A	6204373	6418 27 9		342	SKS 8X16 F	M8 x 16 16/ ST / F	5256571	3158 62 4		187
				/m		SKS 8X20 F	M8 x 20 20/ ST / F	5256632	3158 63 2		187
SKS 130 FS	300 1,5/ ST / FS	6062294	6061 30 3		221	SKS 8X30 F	M8 x 30 30/ ST / F	5256694	3158 64 0		187
SKS 130 FT	300 1,5/ ST / FT	6062652	6061 65 6		221					/m	
SKS 140 FS	400 1,5/ ST / FS	6062355	6061 40 0		221	SKSU 110 FS	100 1,5/ ST / FS	6395231	6063 40 3		222
SKS 140 FT	400 1,5/ ST / FT	6062713	6061 67 2		221	SKSU 110 FS	100 1,5/ ST / FS	6395231	6063 40 3		237
SKS 150 FS	500 1,5/ ST / FS	6062416	6061 50 8		221	SKSU 110 FT	100 1,5/ ST / FT	6397754	6064 79 5		222
SKS 150 FT	500 1,5/ ST / FT	6062775	6061 70 2		221	SKSU 110 FT	100 1,5/ ST / FT	6397754	6064 79 5		237
SKS 155 FS	550 1,5/ ST / FS	6062478	6061 55 9		221	SKSU 120 FS	200 1,5/ ST / FS	6395293	6063 43 8		222
SKS 155 FT	550 1,5/ ST / FT	6062836	6061 72 9		221	SKSU 120 FS	200 1,5/ ST / FS	6395293	6063 43 8		237
SKS 610 FS	100 1,5/ St / FS	6060191	6056 10 5		205	SKSU 120 FT	200 1,5/ ST / FT	6397877	6064 83 3		222
SKS 610 FT	100 1,5/ ST / FT	6389957	6056 63 6		205	SKSU 120 FT	200 1,5/ ST / FT	6397877	6064 83 3		237
SKS 610 VA4301	100 1,5/ V2A	6120550	6056 73 5		350						
SKS 610 VA4571	100 1,5/ V4A	6050048	6056 75 0		388	SKSU 130 FS	300 1,5/ ST / FS	6395354	6063 45 4		222
						SKSU 130 FS	300 1,5/ ST / FS	6395354	6063 45 4		237
SKS 615 FS	150 1,5/ St / FS	6389711	6056 15 6		205	SKSU 130 FT	300 1,5/ ST / FT	6397990	6064 88 4		222
SKS 615 FT	150 1,5/ ST / FT	6390014	6056 64 4		205	SKSU 130 FT	300 1,5/ ST / FT	6397990	6064 88 4		237
						SKSU 140 FS	400 1,5/ ST / FS	6395415	6063 47 0		222
						SKSU 140 FS	400 1,5/ ST / FS	6395415	6063 47 0		237

Type listing

Structure of the EAN number: Country code **40**

Manufacturer code **1219** (for articles beginning with **0: 1010**)

Individual EAN-C **5647589**

Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
				/m						/m	
SKSU 140 FT	400 1,5/ ST / FT	5069690	6064 92 2		222	SLL 660 CPS 4 FS	600 6000/ St / FS	5434030	6010 62 8		302
SKSU 140 FT	400 1,5/ ST / FT	5069690	6064 92 2		237	SLL 660 CPS 4 FT	600 6000/ St / FT	5434146	6010 63 8		302
SKSU 150 FS	500 1,5/ ST / FS	6395477	6063 49 7		222	SLM 50 C40 10 FT	1000 3000/ ST / FT	6168613	6010 54 7		304
SKSU 150 FS	500 1,5/ ST / FS	6395477	6063 49 7		237	SLM 50 C40 11 FT	1100 3000/ ST / FT	6168552	6010 55 5		304
SKSU 150 FT	500 1,5/ ST / FT	6398232	6064 96 5		222	SLM 50 C40 12 FT	1200 3000/ ST / FT	6168491	6010 56 3		304
SKSU 150 FT	500 1,5/ ST / FT	6398232	6064 96 5		237	SLM 50 C40 2 FT	200 3000/ ST / FT	6146116	6010 46 6		304
						SLM 50 C40 3 FT	300 3000/ ST / FT	6146178	6010 47 4		304
SKSU 155 FS	550 1,5/ ST / FS	5038702	6063 50 0		222	SLM 50 C40 4 FT	400 3000/ ST / FT	6146239	6010 48 2		304
SKSU 155 FS	550 1,5/ ST / FS	5038702	6063 50 0		237	SLM 50 C40 5 FT	500 3000/ ST / FT	6146291	6010 49 0		304
SKSU 155 FT	550 1,5/ ST / FT	6102433	6064 97 3		222	SLM 50 C40 6 FT	600 3000/ ST / FT	6168859	6010 50 4		304
SKSU 155 FT	550 1,5/ ST / FT	6102433	6064 97 3		237	SLM 50 C40 7 FT	700 3000/ ST / FT	6168798	6010 51 2		304
						SLM 50 C40 8 FT	800 3000/ ST / FT	6168736	6010 52 0		304
SKSU 610 FS	100 1,5/ St / FS	5060369	6063 23 4		207	SLM 50 C40 9 FT	900 3000/ ST / FT	6168675	6010 53 9		304
SKSU 610 FS	100 1,5/ St / FS	5060369	6063 23 4		236						
SKSU 610 FT	100 1,5/ ST / FT	5069836	6064 30 7		207	SLS 80 C40 10 FT	1000 6000/ ST / FT	6011599	6013 46 5		307
SKSU 610 FT	100 1,5/ ST / FT	5069836	6064 30 7		236	SLS 80 C40 11 FT	1100 6000/ ST / FT	6011650	6013 47 3		307
						SLS 80 C40 12 FT	1200 6000/ ST / FT	6011711	6013 48 1		307
SKSU 620 FS	200 1,5/ St / FS	5060390	6063 23 6		207	SLS 80 C40 2 FT	200 6000/ ST / FT	6358632	6013 38 4		307
SKSU 620 FS	200 1,5/ St / FS	5060390	6063 23 6		236	SLS 80 C40 3 FT	300 6000/ ST / FT	6358694	6013 39 2		307
SKSU 620 FT	200 1,5/ ST / FT	6050888	6064 35 3		207	SLS 80 C40 4 FT	400 6000/ ST / FT	6011230	6013 40 6		307
SKSU 620 FT	200 1,5/ ST / FT	6050888	6064 35 3		236	SLS 80 C40 5 FT	500 6000/ ST / FT	6011292	6013 41 4		307
						SLS 80 C40 6 FT	600 6000/ ST / FT	6011353	6013 42 2		307
SKSU 630 FS	300 1,5/ St / FS	5060406	6063 23 8		207	SLS 80 C40 7 FT	700 6000/ ST / FT	6011414	6013 43 0		307
SKSU 630 FS	300 1,5/ St / FS	5060406	6063 23 8		236	SLS 80 C40 8 FT	800 6000/ ST / FT	6011476	6013 44 9		307
SKSU 630 FT	300 1,5/ ST / FT	5069843	6064 40 9		207	SLS 80 C40 9 FT	900 6000/ ST / FT	6011537	6013 45 7		307
SKSU 630 FT	300 1,5/ ST / FT	5069843	6064 40 9		236						
						SLS 80 W40 10 FT	1000 6000/ ST / FT	6012138	6013 90 2		307
SKSU 640 FS	400 1,5/ St / FS	5060413	6063 95 0		207	SLS 80 W40 11 FT	1100 6000/ ST / FT	6012190	6013 91 0		307
SKSU 640 FS	400 1,5/ St / FS	5060413	6063 95 0		236	SLS 80 W40 12 FT	1200 6000/ ST / FT	6012251	6013 92 9		307
SKSU 640 FT	400 1,5/ ST / FT	5069874	6064 43 5		207	SLS 80 W40 4 FT	400 6000/ ST / FT	6011773	6013 84 8		307
SKSU 640 FT	400 1,5/ ST / FT	5069874	6064 43 5		236	SLS 80 W40 5 FT	500 6000/ ST / FT	6011834	6013 85 6		307
						SLS 80 W40 6 FT	600 6000/ ST / FT	6011896	6013 86 4		307
SKSU 650 FS	500 1,5/ St / FS	6063857	6063 24 1		207	SLS 80 W40 7 FT	700 6000/ ST / FT	6011957	6013 87 2		307
SKSU 650 FS	500 1,5/ St / FS	6063857	6063 24 1		236	SLS 80 W40 8 FT	800 6000/ ST / FT	6012015	6013 88 0		307
SKSU 650 FT	500 1,5/ ST / FT	6308958	6064 51 5		207	SLS 80 W40 9 FT	900 6000/ ST / FT	6012077	6013 89 9		307
SKSU 650 FT	500 1,5/ ST / FT	6308958	6064 51 5		236						
										/pc.	
SKSU 660 FS	600 1,5/ St / FS	6063918	6063 27 6		207	SSLB 100 DD	85/ ST / DD	6095247	7070 30 6		227
SKSU 660 FS	600 1,5/ St / FS	6063918	6063 27 6		236	SSLB 100 DD	85/ ST / DD	6095247	7070 30 6		282
SKSU 660 FT	600 1,5/ ST / FT	6397273	6064 52 3		207	SSLB 100 DD	85/ ST / DD	6095247	7070 30 6		285
SKSU 660 FT	600 1,5/ ST / FT	6397273	6064 52 3		236						
						SSLB 100 FS	85/ St / FS	6079971	7070 20 5		227
SLG 420 NS 3 FS	200 2/ ST / FS	5063575	6200 54 0		263	SSLB 100 FS	85/ St / FS	6079971	7070 20 5		282
SLG 420 NS 6 FS	200 2/ ST / FS	5063780	6200 62 3		263	SSLB 100 FS	85/ St / FS	6079971	7070 20 5		285
SLG 420 NS FT	200 2/ ST / FT	5063889	6200 64 6		263						
						SSLB 100 VA4301	85/ V2A	6095728	7070 35 3		354
SLG 430 NS 3 FS	300 2/ ST / FS	5063582	6200 54 3		263	SSLB 100 VA4571	85/ V4A	5021520	7070 39 0		390
SLG 430 NS 6 FS	300 2/ ST / FS	5063827	6200 62 6		263						
SLG 430 NS FT	300 2/ ST / FT	5063896	6200 64 9		263	SSLB 150 DD	135/ ST / DD	6095308	7070 31 0		227
						SSLB 150 DD	135/ ST / DD	6095308	7070 31 0		282
SLG 440 NS 3 FS	400 2/ ST / FS	5063599	6200 54 6		263	SSLB 150 DD	135/ ST / DD	6095308	7070 31 0		285
SLG 440 NS 6 FS	400 2/ ST / FS	5063834	6200 62 9		263						
SLG 440 NS FT	400 2/ ST / FT	5063902	6200 65 2		263	SSLB 150 FS	135/ St / FS	6094820	7070 20 9		227
						SSLB 150 FS	135/ St / FS	6094820	7070 20 9		282
SLG 450 NS 3 FS	500 2/ ST / FS	5063605	6200 54 9		263	SSLB 150 FS	135/ St / FS	6094820	7070 20 9		285
SLG 450 NS 6 FS	500 2/ ST / FS	5063841	6200 63 2		263						
SLG 450 NS FT	500 2/ ST / FT	5063933	6200 65 5		263						
						SSLB 200 DD	185/ ST / DD	6095360	7070 31 4		227
SLG 460 NS 3 FS	600 2/ ST / FS	5063636	6200 55 2		263	SSLB 200 DD	185/ ST / DD	6095360	7070 31 4		282
SLG 460 NS 6 FS	600 2/ ST / FS	5063872	6200 63 5		263	SSLB 200 DD	185/ ST / DD	6095360	7070 31 4		285
SLG 460 NS FT	600 2/ ST / FT	5063940	6200 65 8		263						
						SSLB 200 FS	185/ St / FS	6094882	7070 21 3		227
SLH 42 FT	2000/ ST / FT	6582136	7103 61 1		181	SSLB 200 FS	185/ St / FS	6094882	7070 21 3		282
						SSLB 200 FS	185/ St / FS	6094882	7070 21 3		285
SLH 62 FT	3000/ ST / FT	6468911	7103 64 3		181						
						SSLB 200 VA4301	185/ V2A	6095780	7070 36 1		369
						SSLB 200 VA4301	185/ V2A	6095780	7070 36 1		370
SLL 620 CPS 4 FS	200 6000/ St / FS	5433965	6010 62 0		302	SSLB 200 VA4301	185/ V2A	6095780	7070 36 1		354
SLL 620 CPS 4 FT	200 6000/ St / FT	5434047	6010 63 0		302	SSLB 200 VA4571	185/ V4A	5021582	7070 39 2		390
SLL 630 CPS 4 FS	300 6000/ St / FS	5433972	6010 62 2		302	SSLB 300 DD	285/ ST / DD	6095421	7070 31 8		227
SLL 630 CPS 4 FT	300 6000/ St / FT	5434085	6010 63 2		302	SSLB 300 DD	285/ ST / DD	6095421	7070 31 8		282
						SSLB 300 DD	285/ ST / DD	6095421	7070 31 8		285
SLL 640 CPS 4 FS	400 6000/ St / FS	5433989	6010 62 4		302	SSLB 300 FS	285/ St / FS	6094943	7070 21 7		227
SLL 640 CPS 4 FT	400 6000/ St / FT	5434092	6010 63 4		302	SSLB 300 FS	285/ St / FS	6094943	7070 21 7		282
						SSLB 300 FS	285/ St / FS	6094943	7070 21 7		285
SLL 650 CPS 4 FS	500 6000/ St / FS	5434023	6010 62 6		302						
SLL 650 CPS 4 FT	500 6000/ St / FT	5434108	6010 63 6		302						

Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
SSLB 300 VA4301	285/ V2A	6095841	7070 36 5	/pc.	369	TGK 30 42 FT	/ ST / FT	6014415	6018 96 3	/pc.	172
SSLB 300 VA4301	285/ V2A	6095841	7070 36 5		370	TGK 30 42 FT	/ ST / FT	6014415	6018 96 3		308
SSLB 300 VA4301	285/ V2A	6095841	7070 36 5		354						
SSLB 300 VA4571	285/ V4A	5021605	7070 39 4		390						
SSLB 400 DD	385/ ST / DD	6095483	7070 32 2		227	TKH-L-25 FT	25/ ST / FT	6579259	6355 81 2		175
SSLB 400 DD	385/ ST / DD	6095483	7070 32 2		282	TKH-S-30 FT	30/ ST / FT	6114610	6355 80 4		176
SSLB 400 DD	385/ ST / DD	6095483	7070 32 2		285						
SSLB 400 FS	385/ St / FS	6095001	7070 22 1		227	TKS-L-25 FT	25/ ST / FT	6579075	6355 80 8		176
SSLB 400 FS	385/ St / FS	6095001	7070 22 1		282	TKS-S-30 FT	30/ ST / FT	6114498	6355 80 0		176
SSLB 400 FS	385/ St / FS	6095001	7070 22 1		285						
SSLB 400 VA4301	385/ V2A	6095902	7070 36 9		369	TPB 100 FS	1,5/ St / FS	5523666	6357 50 6		322
SSLB 400 VA4301	385/ V2A	6095902	7070 36 9		370	TPB 100 FS	1,5/ St / FS	5523666	6357 50 6		140
SSLB 400 VA4301	385/ V2A	6095902	7070 36 9		354	TPB 100 VA4301	1,5/ V2A	5523673	6357 51 6		335
SSLB 400 VA4571	385/ V4A	5021766	7070 39 6		390						
SSLB 500 DD	485/ ST / DD	6095544	7070 32 6		227	TPB R FS	1,5 0,8/ St / FS	5523680	6357 53 6		140
SSLB 500 DD	485/ ST / DD	6095544	7070 32 6		282	TPB R FS	1,5 0,8/ St / FS	5523680	6357 53 6		322
SSLB 500 DD	485/ ST / DD	6095544	7070 32 6		285	TPB R VA4301	1,5 0,8/ V2A	5523727	6357 53 8		335
SSLB 500 FS	485/ St / FS	6095063	7070 22 5		227	TPD 145 FS	145 100-100 / ST / FS	6198610	6363 80 6		143
SSLB 500 FS	485/ St / FS	6095063	7070 22 5		282						
SSLB 500 FS	485/ St / FS	6095063	7070 22 5		285	TPD 145 FT	145 100-100 / ST / FT	5076858	6363 86 1		143
SSLB 500 VA4301	485/ V2A	6095964	7070 37 3		369						
SSLB 500 VA4301	485/ V2A	6095964	7070 37 3		370	TPD 245 FS	245 200-200 / ST / FS	6198672	6363 81 4		143
SSLB 500 VA4301	485/ V2A	6095964	7070 37 3		354						
SSLB 500 VA4571	485/ V4A	5021711	7070 39 8		390	TPD 245 FT	245 200-200 / ST / FT	5076865	6363 86 5		143
SSLB 550 DD	535/ ST / DD	6095605	7070 33 0		227						
SSLB 550 DD	535/ ST / DD	6095605	7070 33 0		282	TPD 345 FS	345 300-300 / ST / FS	6198733	6363 82 2		143
SSLB 550 DD	535/ ST / DD	6095605	7070 33 0		285						
SSLB 550 FS	535/ St / FS	6095124	7070 22 9		227	TPD 345 FT	345 300-300 / ST / FT	5076896	6363 86 9		143
SSLB 550 FS	535/ St / FS	6095124	7070 22 9		282	TPDG 145 FS	145 100-100 / ST / FS	6511754	6365 90 6		144
SSLB 550 FS	535/ St / FS	6095124	7070 22 9		285	TPDG 145 FT	145 100-100 / ST / FT	5076902	6365 97 7		144
						TPDG 145 VA4301	145 100-100 / V2A	5617747	6365 98 9		334
SSLB 600 DD	585/ ST / DD	6095667	7070 33 4		227	TPDG 195 FS	195 150-150 / ST / FS	6042609	6365 91 4		144
SSLB 600 DD	585/ ST / DD	6095667	7070 33 4		282	TPDG 195 VA4301	195 150-150 / V2A	5617754	6365 99 1		334
SSLB 600 DD	585/ ST / DD	6095667	7070 33 4		285						
SSLB 600 FS	585/ St / FS	6095186	7070 23 3		227	TPDG 245 FS	245 200-200 / ST / FS	6511815	6365 92 2		144
SSLB 600 FS	585/ St / FS	6095186	7070 23 3		282	TPDG 245 FT	245 200-200 / ST / FT	5076919	6365 98 1		144
SSLB 600 FS	585/ St / FS	6095186	7070 23 3		285	TPDG 245 VA4301	245 200-200 / V2A	5617761	6365 99 3		334
SSLB 600 VA4301	585/ V2A	6096022	7070 38 1		369	TPDG 345 FS	345 300-300 / ST / FS	6984329	6365 94 9		144
SSLB 600 VA4301	585/ V2A	6096022	7070 38 1		370	TPDG 345 FT	345 300-300 / ST / FT	5076926	6365 98 5		144
SSLB 600 VA4301	585/ V2A	6096022	7070 38 1		354	TPDG 345 VA4301	345 300-300 / V2A	5617778	6365 99 5		334
SSLB 600 VA4571	585/ V4A	5021827	7070 40 0		390	TPS 3000 FS	3000 / ST / FS	6282739	6364 80 2		147
SSV FT	2 23 x 23 x 100/ ST / FT	6064755	6066 04 6	/100 pc.	330	TPS 445 FS	445/ ST / FS	6199334	6364 32 2		145
SSV VA4301	2 23 x 23 x 100/ V2A	6064816	6066 05 4		376	TPS 445 FT	445/ ST / FT	6473717	6364 40 3		145
SV DD	2 86 x 23/ ST / DD	6084432	6066 94 1		330	TPS 445 VA4301	445/ V2A	5617730	6364 84 8		334
SV VA4301	2 86 x 23/ V2A	6065233	6066 93 3		376	TPS 545 FS	545/ ST / FS	6199396	6364 34 9		145
T D 200 FT	200/ ST / FT	6446414	6239 77 3		276	TPS 545 FT	545/ ST / FT	6473779	6364 50 0		145
T D 300 FT	300/ ST / FT	6446476	6239 78 1		276	TPS 545 VA4301	545/ V2A	5617860	6364 85 0		334
T D 400 FT	400/ ST / FT	6446537	6239 80 3		276	TPS 645 FS	645/ ST / FS	6199457	6364 36 5		145
T D 500 FT	500/ ST / FT	6446599	6239 81 1		276	TPS 645 FT	645/ ST / FT	6473830	6364 60 8		145
T D 600 FT	600/ ST / FT	6446650	6239 83 8		276	TPS 645 VA4301	645/ V2A	5617877	6364 85 2		334
						TPS KS OR	Pastel orange/ PE	5668084	6364 62 5		147
T5012 M5x13 G	M5/ ST / G	5052999	1140 01 9		189	TPSA 145 FS	145 100-100 / St / FS	6198979	6364 10 1		146
T5012 O.S. M5 G	M5/ ST / G	5053057	1140 21 3		189	TPSA 145 FT	145 100-100 / ST / FT	6473892	6364 65 9		146

Type listing

Structure of the EAN number: Country code **40**

Manufacturer code **1219** (for articles beginning with **0: 1010**)

Individual EAN-C **5647589**

Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
TPSA 195 FS	195 150 / St / FS	6199037	6364 15 2	/pc.	146	TSG 60 DD	60 3000 / St / DD	5694687	6062 32 7	/m	237
TPSA 195 FT	195 150-150 / St / FT	6555673	6364 68 3		146	TSG 60 FS	60 3000 / St / FS	5694540	6062 06 8		207
						TSG 60 FS	60 3000 / St / FS	5694540	6062 06 8		217
						TSG 60 FS	60 3000 / St / FS	5694540	6062 06 8		237
TPSA 245 FS	245 200-200 / St / FS	6199099	6364 20 9		146	TSG 60 VA4301	60 3000 / V2A	5694557	6062 08 4		350
TPSA 245 FT	245 200-200 / St / FT	6473953	6364 66 7		146	TSG 60 VA4571	60 3000 / V4A	5694564	6062 08 6		389
						TSG 60 VA4571	60 3000 / V4A	5694564	6062 08 6		392
TPSA 345 FS	345 300-300 / St / FS	6199273	6364 30 6		146	TSG 85 DD	85 3000 / St / DD	5694694	6062 33 1		216
						TSG 85 DD	85 3000 / St / DD	5694694	6062 33 1		248
TPSA 345 FT	345 300-300 / St / FT	6474011	6364 67 5		146	TSG 85 DD	85 3000 / St / DD	5694694	6062 33 1		272
TPSAG 145 FS	145 100-100 / St / FS	6627554	6366 01 5		147	TSG 85 DD	85 3000 / St / DD	5694694	6062 33 1		281
TPSAG 145 FT	145 100-100 / St / FT	5076957	6366 13 1		147	TSG 85 DD	85 3000 / St / DD	5694694	6062 33 1		287
TPSAG 145 VA4301	145 100-100 / V2A	5617785	6366 14 5		335	TSG 85 FS	85 3000 / St / FS	5694571	6062 11 4		216
						TSG 85 FS	85 3000 / St / FS	5694571	6062 11 4		248
TPSAG 195 FS	195 150-150 / St / FS	6627615	6366 02 3		147	TSG 85 FS	85 3000 / St / FS	5694571	6062 11 4		272
TPSAG 195 FT	195 150-150 / St / FT	5076964	6366 13 5		147	TSG 85 FS	85 3000 / St / FS	5694571	6062 11 4		281
TPSAG 195 VA4301	195 150-150 / V2A	5617792	6366 14 6		335	TSG 85 FS	85 3000 / St / FS	5694571	6062 11 4		287
TPSAG 245 FS	245 200-200 / St / FS	6545353	6366 03 1		147	TSG 85 VA4301	85 3000 / V2A	5694601	6062 17 3		359
TPSAG 245 FT	245 200-200 / St / FT	5076971	6366 13 9		147	TSG 85 VA4301	85 3000 / V2A	5694601	6062 17 3		368
TPSAG 245 VA4301	245 200-200 / V2A	5617808	6366 14 8		335	TSG 85 VA4301	85 3000 / V2A	5694601	6062 17 3		372
TPSAG 345 FS	345 300-300 / St / FS	6545292	6366 06 6	/m	147					/pc.	
TPSAG 345 FT	345 300-300 / St / FT	5076988	6366 14 3		147	TSGV VA4310	/ V2A	5694724	6067 97 0		199
TPSAG 345 VA4301	345 300-300 / V2A	5617815	6366 14 9		335	TSGV VA4310	/ V2A	5694724	6067 97 0		207
						TSGV VA4310	/ V2A	5694724	6067 97 0		216
TPSG 3000 FS	3000 / St / FS	6079032	6366 09 0		147	TSGV VA4310	/ V2A	5694724	6067 97 0		222
						TSGV VA4310	/ V2A	5694724	6067 97 0		237
						TSGV VA4310	/ V2A	5694724	6067 97 0		244
TSG 110 DD	110 3000 / St / DD	5694700	6062 33 5		222	TSGV VA4310	/ V2A	5694724	6067 97 0		247
TSG 110 DD	110 3000 / St / DD	5694700	6062 33 5		237	TSGV VA4310	/ V2A	5694724	6067 97 0		248
TSG 110 DD	110 3000 / St / DD	5694700	6062 33 5		284	TSGV VA4310	/ V2A	5694724	6067 97 0		256
TSG 110 DD	110 3000 / St / DD	5694700	6062 33 5		290	TSGV VA4310	/ V2A	5694724	6067 97 0		264
TSG 110 DD	110 3000 / St / DD	5694700	6062 33 5		295	TSGV VA4310	/ V2A	5694724	6067 97 0		268
TSG 110 FS	110 3000 / St / FS	5694588	6062 12 2		222	TSGV VA4310	/ V2A	5694724	6067 97 0		272
TSG 110 FS	110 3000 / St / FS	5694588	6062 12 2		237	TSGV VA4310	/ V2A	5694724	6067 97 0		281
TSG 110 FS	110 3000 / St / FS	5694588	6062 12 2		284	TSGV VA4310	/ V2A	5694724	6067 97 0		284
TSG 110 FS	110 3000 / St / FS	5694588	6062 12 2		290	TSGV VA4310	/ V2A	5694724	6067 97 0		287
TSG 110 FS	110 3000 / St / FS	5694588	6062 12 2		295	TSGV VA4310	/ V2A	5694724	6067 97 0		290
						TSGV VA4310	/ V2A	5694724	6067 97 0		295
TSG 135 DD	135 3000 / St / DD	5694717	6062 33 8		284	TSGV VA4310	/ V2A	5694724	6067 97 0		350
TSG 135 DD	135 3000 / St / DD	5694717	6062 33 8		290	TSGV VA4310	/ V2A	5694724	6067 97 0		351
TSG 135 DD	135 3000 / St / DD	5694717	6062 33 8		295	TSGV VA4310	/ V2A	5694724	6067 97 0		359
TSG 135 FS	135 3000 / St / FS	5694595	6062 13 2		284	TSGV VA4310	/ V2A	5694724	6067 97 0		366
TSG 135 FS	135 3000 / St / FS	5694595	6062 13 2		290	TSGV VA4310	/ V2A	5694724	6067 97 0		369
TSG 135 FS	135 3000 / St / FS	5694595	6062 13 2		295	TSGV VA4310	/ V2A	5694724	6067 97 0		372
						TSGV VA4310	/ V2A	5694724	6067 97 0		389
TSG 30 DD	30 3000 / St / DD	5694663	6062 31 4		199	TSGV VA4310	/ V2A	5694724	6067 97 0		392
TSG 30 DD	30 3000 / St / DD	5694663	6062 31 4		244	TSGV VA4310	/ V2A	5694724	6067 97 0		395
TSG 30 DD	30 3000 / St / DD	5694663	6062 31 4		256						
TSG 30 DD	30 3000 / St / DD	5694663	6062 31 4		264	US 3 100 FS	1000 2 / St / FS	6223572	6342 31 8		150
						US 3 100 VA4301	1000 2 / V2A	5705727	6342 46 0		336
TSG 30 FS	30 3000 / St / FS	5694496	6062 05 0		199	US 3 100 VA4571	1000 2 / V4A	5705833	6342 49 1		380
TSG 30 FS	30 3000 / St / FS	5694496	6062 05 0		244						
TSG 30 FS	30 3000 / St / FS	5694496	6062 05 0		256	US 3 150 FS	1500 2 / St / FS	6223633	6342 32 8		150
TSG 30 FS	30 3000 / St / FS	5694496	6062 05 0		264	US 3 150 VA4301	1500 2 / V2A	5705765	6342 46 3		336
						US 3 150 VA4571	1500 2 / V4A	5705840	6342 49 4		380
TSG 30 VA4301	30 3000 / V2A	5694502	6062 05 2		359						
TSG 30 VA4571	30 3000 / V4A	5694533	6062 05 4		392	US 3 20 FS	200 2 / St / FS	6221776	6342 30 2		150
TSG 45 DD	45 3000 / St / DD	5694670	6062 32 1		209	US 3 200 FS	2000 2 / St / FS	6224296	6342 33 8		150
TSG 45 DD	45 3000 / St / DD	5694670	6062 32 1		246	US 3 200 VA4301	2000 2 / V2A	5705772	6342 46 6		336
TSG 45 DD	45 3000 / St / DD	5694670	6062 32 1		268	US 3 200 VA4571	2000 2 / V4A	5705871	6342 49 7		380
TSG 45 FS	45 3000 / St / FS	5694489	6062 03 3		209	US 3 30 FS	300 2 / St / FS	6222018	6342 30 4		150
TSG 45 FS	45 3000 / St / FS	5694489	6062 03 3		246	US 3 30 VA4301	300 2 / V2A	5705703	6342 45 5		336
TSG 45 FS	45 3000 / St / FS	5694489	6062 03 3		268	US 3 30 VA4571	300 2 / V4A	5705789	6342 48 5		380
TSG 45 VA4301	45 3000 / V2A	5694441	6062 02 5		351	US 3 300 FS	3000 2 / St / FS	5710905	6342 34 0		150
TSG 45 VA4301	45 3000 / V2A	5694441	6062 02 5		359						
TSG 45 VA4301	45 3000 / V2A	5694441	6062 02 5		366	US 3 40 FS	400 2 / St / FS	6222070	6342 30 6		150
TSG 45 VA4571	45 3000 / V4A	5694472	6062 02 8		389						
TSG 45 VA4571	45 3000 / V4A	5694472	6062 02 8		395	US 3 50 FS	500 2 / St / FS	6222315	6342 30 8		150
TSG 60 DD	60 3000 / St / DD	5694687	6062 32 7		207						
TSG 60 DD	60 3000 / St / DD	5694687	6062 32 7		217						

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				/pc.						/pc.	
US 3 50 VA4301	500 2/ V2A	5705710	6342 45 7		336	US 5 100 FT	1000 2,5/ St / FT	6284177	6340 96 2		153
US 3 50 VA4571	500 2/ V4A	5705826	6342 48 8		380	US 5 100 FT	1000 2,5/ St / FT	6284177	6340 96 2		304
						US 5 100 VA4301	1000 2,5/ V2A	6082094	6341 13 3		338
US 3 60 FS	600 2/ St / FS	6222377	6342 31 0		150						
						US 5 110 VA4301	1100 2,5/ V2A	6082155	6341 13 7		338
US 3 600 FS	6000 2/ St / FS	6224418	6342 34 5		150						
US 3 600 FT	6000 2/ ST / FT	6225491	6342 45 0		150	US 5 120 VA4301	1200 2,5/ V2A	6082216	6341 14 1		338
US 3 600 FT	6000 2/ ST / FT	6225491	6342 45 0		304						
US 3 600 VA4301	6000 2/ V2A	5706373	6342 46 8		336	US 5 150 FT	1500 2,5/ St / FT	6437597	6340 96 6		153
US 3 600 VA4571	6000 2/ V4A	5618478	6342 50 5		380	US 5 150 FT	1500 2,5/ St / FT	6437597	6340 96 6		304
US 3 70 FS	700 2/ St / FS	6222438	6342 31 2		150	US 5 20 FT	200 2,5/ St / FT	6959006	6340 88 1		153
						US 5 20 FT	200 2,5/ St / FT	6959006	6340 88 1		304
US 3 80 FS	800 2/ St / FS	6222490	6342 31 4		150	US 5 20 VA4301	200 2,5/ V2A	6081554	6341 10 1		338
US 3 90 FS	900 2/ St / FS	6223510	6342 31 6		150	US 5 200 FT	2000 2,5/ St / FT	6437658	6340 97 0		153
						US 5 200 FT	2000 2,5/ St / FT	6437658	6340 97 0		304
US 3 K 100 FT	1000 2/ St / FT	6225132	6342 36 8		149	US 5 30 FT	300 2,5/ St / FT	6959068	6340 90 3		153
						US 5 30 FT	300 2,5/ St / FT	6959068	6340 90 3		304
US 3 K 100VA4301	1000 2/ V2A	5705437	6342 41 7		336	US 5 30 VA4301	300 2,5/ V2A	6081615	6341 10 5		338
US 3 K 100VA4571	1000 2/ V4A	5705697	6342 39 7		380	US 5 30 VA4571	300 2,5/ V4A	5020981	6341 05 3		382
US 3 K 110 FT	1100 2/ St / FT	6225378	6342 37 0		149	US 5 300 FT	3000 2,5/ St / FT	6446957	6340 98 9		153
US 3 K 120 FT	1200 2/ St / FT	6225439	6342 37 2		149	US 5 300 FT	3000 2,5/ St / FT	6446957	6340 98 9		304
						US 5 300 VA4301	3000 2,5/ V2A	6082278	6341 15 2		338
US 3 K 20 FT	200 2/ St / FT	6224470	6342 35 1		149	US 5 300 VA4571	3000 2,5/ V4A	5022305	6341 07 3		382
US 3 K 20VA4301	200 2/ V2A	5705352	6342 40 1		336	US 5 40 FT	400 2,5/ St / FT	6959129	6340 91 1		153
US 3 K 20VA4571	200 2/ V4A	5705635	6342 37 5		380	US 5 40 FT	400 2,5/ St / FT	6959129	6340 91 1		304
						US 5 40 VA4301	400 2,5/ V2A	6081677	6341 10 9		338
						US 5 40 VA4571	400 2,5/ V4A	6181995	6341 05 5		382
US 3 K 30 FT	300 2/ St / FT	6224531	6342 35 3		149						
						US 5 50 FT	500 2,5/ St / FT	6959181	6340 93 8		153
US 3 K 30VA4301	300 2/ V2A	5705369	6342 40 3		336	US 5 50 FT	500 2,5/ St / FT	6959181	6340 93 8		304
US 3 K 30VA4571	300 2/ V4A	5395355	6342 53 0		380	US 5 50 VA4301	500 2,5/ V2A	6081738	6341 11 3		338
						US 5 50 VA4571	500 2,5/ V4A	6182053	6341 05 7		382
US 3 K 40 FT	400 2/ St / FT	6224593	6342 35 5		149	US 5 60 FT	600 2,5/ St / FT	6601752	6340 94 6		153
						US 5 60 FT	600 2,5/ St / FT	6601752	6340 94 6		304
US 3 K 40VA4301	400 2/ V2A	5705376	6342 40 5		336	US 5 60 VA4571	600 2,5/ V4A	6183319	6341 05 9		382
US 3 K 40VA4571	400 2/ V4A	5705642	6342 37 9		380						
						US 5 600 FT	6000 2,5/ ST / FT	6437719	6340 99 7		153
						US 5 600 FT	6000 2,5/ ST / FT	6437719	6340 99 7		304
US 3 K 50 FT	500 2/ St / FT	6224654	6342 35 7		149						
						US 5 70 FT	700 2,5/ St / FT	6043927	6340 95 0		153
US 3 K 50VA4301	500 2/ V2A	5705383	6342 40 7		336	US 5 70 FT	700 2,5/ St / FT	6043927	6340 95 0		304
US 3 K 50VA4571	500 2/ V4A	5705659	6342 38 1		380	US 5 70 VA4301	700 2,5/ V2A	6081851	6341 12 1		338
						US 5 80 FT	800 2,5/ St / FT	6044047	6340 95 4		153
US 3 K 60 FT	600 2/ St / FT	6224715	6342 35 9		149	US 5 80 FT	800 2,5/ St / FT	6044047	6340 95 4		304
						US 5 80 VA4301	800 2,5/ V2A	6081912	6341 12 5		338
US 3 K 60VA4301	600 2/ V2A	5705390	6342 40 9		336	US 5 80 VA4571	800 2,5/ V4A	6237135	6341 06 3		382
US 3 K 60VA4571	600 2/ V4A	5618461	6342 38 9		380						
						US 5 90 FT	900 2,5/ St / FT	6044160	6340 95 8		153
						US 5 90 FT	900 2,5/ St / FT	6044160	6340 95 8		304
US 3 K 70 FT	700 2/ St / FT	6224777	6342 36 2		149	US 5 90 VA4301	900 2,5/ V2A	6081974	6341 12 9		338
						US 5 90 VA4571	900 2,5/ V4A	6183371	6341 06 5		382
US 3 K 70VA4301	700 2/ V2A	5705406	6342 41 1		336						
US 3 K 70VA4571	700 2/ V4A	5705666	6342 39 1		380						
						US 5 K 100 FT	1000 2,5/ St / FT	6536290	6341 61 6		152
US 3 K 80 FT	800 2/ St / FT	6225019	6342 36 4		149	US 5 K 100VA4301	1000 2,5/ V2A	6350711	6341 39 0		338
						US 5 K 100VA4571	1000 2,5/ V4A	6459919	6341 24 1		382
US 3 K 80VA4301	800 2/ V2A	5705413	6342 41 3		336						
US 3 K 80VA4571	800 2/ V4A	5705673	6342 39 3		380	US 5 K 110 FT	1100 2,5/ St / FT	6536238	6341 62 4		152
						US 5 K 110VA4301	1100 2,5/ V2A	6350773	6341 39 4		338
US 3 K 90 FT	900 2/ St / FT	6225071	6342 36 6		149	US 5 K 110VA4571	1100 2,5/ V4A	6816552	6341 24 5		382
US 3 K 90VA4301	900 2/ V2A	5705420	6342 41 5		336	US 5 K 120 FT	1200 2,5/ St / FT	6536177	6341 63 2		152
US 3 K 90VA4571	900 2/ V4A	5705680	6342 39 5		380						
						US 5 K 120VA4301	1200 2,5/ V2A	6350834	6341 39 8		338
						US 5 K 120VA4571	1200 2,5/ V4A	6816613	6341 24 9		382
US 3 KS OR	Pastel orange/ PE	5668039	6338 45 8		336						
US 3 KS OR	Pastel orange/ PE	5668039	6338 45 8		380						
US 3 KS OR	Pastel orange/ PE	5668039	6338 45 8		149	US 5 K 20 FT	200 2,5/ St / FT	6536771	6341 52 7		152
US 3 KS OR	Pastel orange/ PE	5668039	6338 45 8		305						

Type listing

Structure of the EAN number: Country code **40**

Manufacturer code **1219** (for articles beginning with **0: 1010**)

Individual EAN-C **5647589**

Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
				/pc.						/pc.	
US 5 K 20 VA4301	200 2,5/ V2A	6477135	6341 35 8		338	US 7 180 FT	1800 4/ St / FT	6188659	6340 26 1		305
US 5 K 20 VA4571	200 2,5/ V4A	6815531	6341 20 9		382	US 7 190 FT	1900 4/ St / FT	6188710	6340 28 8		156
						US 7 190 FT	1900 4/ St / FT	6188710	6340 28 8		305
US 5 K 30 FT	300 2,5/ St / FT	6536719	6341 53 5		152	US 7 20 FT	200 4/ St / FT	6187690	6340 01 6		156
US 5 K 30 VA4301	300 2,5/ V2A	6644230	6341 36 2		338	US 7 20 FT	200 4/ St / FT	6187690	6340 01 6		305
US 5 K 30 VA4571	300 2,5/ V4A	6815593	6341 21 3		382	US 7 200 FT	2000 4/ St / FT	6188772	6340 29 6		156
						US 7 200 FT	2000 4/ St / FT	6188772	6340 29 6		305
US 5 K 40 FT	400 2,5/ St / FT	6536658	6341 54 3		152	US 7 200 VA4301	2000 4/ V2A	6190034	6341 95 0		341
US 5 K 40 VA4301	400 2,5/ V2A	6350292	6341 36 6		338	US 7 30 FT	300 4/ St / FT	6187751	6340 03 2		156
US 5 K 40 VA4571	400 2,5/ V4A	6815654	6341 21 7		382	US 7 30 FT	300 4/ St / FT	6187751	6340 03 2		305
						US 7 300 FT	3000 4/ St / FT	6188895	6340 37 7		156
US 5 K 50 FT	500 2,5/ St / FT	6536597	6341 55 1		152	US 7 300 FT	3000 4/ St / FT	6188895	6340 37 7		305
US 5 K 50 VA4301	500 2,5/ V2A	6350414	6341 37 0		338	US 7 300 VA4301	3000 4/ V2A	6190096	6341 96 9		341
US 5 K 50 VA4571	500 2,5/ V4A	6815715	6341 22 1		382	US 7 40 FT	400 4/ St / FT	6187812	6340 05 9		156
						US 7 40 FT	400 4/ St / FT	6187812	6340 05 9		305
US 5 K 60 FT	600 2,5/ St / FT	6536535	6341 57 8		152	US 7 400 FT	4000 4/ St / FT	6458233	6340 39 3		156
US 5 K 60 VA4301	600 2,5/ V2A	6350476	6341 37 4		338	US 7 400 FT	4000 4/ St / FT	6458233	6340 39 3		305
US 5 K 60 VA4571	600 2,5/ V4A	6815890	6341 22 5		382	US 7 50 FT	500 4/ St / FT	6187874	6340 07 5		156
						US 7 50 FT	500 4/ St / FT	6187874	6340 07 5		305
US 5 K 70 FT	700 2,5/ St / FT	6536474	6341 58 6		152	US 7 50 VA4301	500 4/ V2A	6189137	6341 76 4		341
US 5 K 70 VA4301	700 2,5/ V2A	6350537	6341 37 8		338	US 7 60 FT	600 4/ St / FT	6187935	6340 09 1		156
US 5 K 70 VA4571	700 2,5/ V4A	6816194	6341 22 8		382	US 7 60 FT	600 4/ St / FT	6187935	6340 09 1		305
						US 7 600 FT	6000 4/ St / FT	6188833	6340 31 8		156
US 5 K 80 FT	800 2,5/ St / FT	6536412	6341 59 4		152	US 7 600 FT	6000 4/ St / FT	6188833	6340 31 8		305
US 5 K 80 VA4301	800 2,5/ V2A	6350599	6341 38 2		338	US 7 600 VA4301	6000 4/ V2A	6190157	6341 99 3		341
US 5 K 80 VA4571	800 2,5/ V4A	6816316	6341 23 3		382	US 7 70 FT	700 4/ St / FT	6187997	6340 11 3		156
						US 7 70 FT	700 4/ St / FT	6187997	6340 11 3		305
US 5 K 90 FT	900 2,5/ St / FT	6536351	6341 60 8		152	US 7 80 FT	800 4/ St / FT	6188055	6340 14 8		156
US 5 K 90 VA4301	900 2,5/ V2A	6624492	6341 38 6		338	US 7 80 FT	800 4/ St / FT	6188055	6340 14 8		305
US 5 K 90 VA4571	900 2,5/ V4A	6816439	6341 23 7		382	US 7 90 FT	900 4/ St / FT	6188116	6340 16 4		156
						US 7 90 FT	900 4/ St / FT	6188116	6340 16 4		305
US 5 KS OR	Pastel orange/ PE	5668046	6338 46 2		152	US 7 K 100 FT	1000 4/ St / FT	6187034	6339 18 2		155
US 5 KS OR	Pastel orange/ PE	5668046	6338 46 2		304	US 7 K 100VA4301	1000 4/ V2A	6185894	6338 69 0		340
US 5 KS OR	Pastel orange/ PE	5668046	6338 46 2		338	US 7 K 110 FT	1100 4/ St / FT	6187096	6339 19 0		155
US 5 KS OR	Pastel orange/ PE	5668046	6338 46 2		382	US 7 K 110VA4301	1100 4/ V2A	6185955	6338 70 4		340
						US 7 K 120 FT	1200 4/ St / FT	6187157	6339 20 4		155
						US 7 K 120VA4301	1200 4/ V2A	6186013	6338 71 2		340
						US 7 K 130 FT	1300 4/ St / FT	6187218	6339 21 2		155
						US 7 K 140 FT	1400 4/ St / FT	6187270	6339 22 0		155
US 7 100 FT	1000 4/ St / FT	6188178	6340 18 0		156	US 7 K 140VA4301	1400 4/ V2A	6186136	6338 73 9		340
US 7 100 FT	1000 4/ St / FT	6188178	6340 18 0		305	US 7 K 150 FT	1500 4/ St / FT	6187331	6339 23 9		155
US 7 100 VA4301	1000 4/ V2A	6189434	6341 81 0		341	US 7 K 150VA4301	1500 4/ V2A	6186198	6338 74 7		340
						US 7 K 160 FT	1600 4/ St / FT	6187393	6339 24 7		155
US 7 110 FT	1100 4/ St / FT	6188239	6340 19 9		156	US 7 K 170 FT	1700 4/ St / FT	6187454	6339 25 5		155
US 7 110 FT	1100 4/ St / FT	6188239	6340 19 9		305	US 7 K 180 FT	1800 4/ St / FT	6187515	6339 26 3		155
						US 7 K 190 FT	1900 4/ St / FT	6187577	6339 27 1		155
US 7 120 FT	1200 4/ St / FT	6188291	6340 20 2		156						
US 7 120 FT	1200 4/ St / FT	6188291	6340 20 2		305						
						US 7 K 20 FT	200 4/ St / FT	6186556	6339 01 8		155
US 7 130 FT	1300 4/ St / FT	6188352	6340 21 0		156	US 7 K 20 VA4301	200 4/ V2A	6185412	6338 60 7		340
US 7 130 FT	1300 4/ St / FT	6188352	6340 21 0		305	US 7 K 200 FT	2000 4/ St / FT	6187638	6339 29 8		155
						US 7 K 200VA4301	2000 4/ V2A	6186495	6338 80 1		340
US 7 140 FT	1400 4/ St / FT	6188413	6340 22 9		156						
US 7 140 FT	1400 4/ St / FT	6188413	6340 22 9		305	US 7 K 30 FT	300 4/ St / FT	6186617	6339 03 4		155
						US 7 K 30 VA4301	300 4/ V2A	6185474	6338 61 5		340
US 7 150 FT	1500 4/ St / FT	6188475	6340 23 7		156						
US 7 150 FT	1500 4/ St / FT	6188475	6340 23 7		305	US 7 K 40 FT	400 4/ St / FT	6186679	6339 05 0		155
US 7 150 VA4301	1500 4/ V2A	6189731	6341 86 1		341	US 7 K 40 VA4301	400 4/ V2A	6185535	6338 62 3		340
US 7 160 FT	1600 4/ St / FT	6188536	6340 24 5		156	US 7 K 50 FT	500 4/ St / FT	6186730	6339 07 7		155
US 7 160 FT	1600 4/ St / FT	6188536	6340 24 5		305	US 7 K 50 VA4301	500 4/ V2A	6185597	6338 63 1		340
US 7 170 FT	1700 4/ St / FT	6188598	6340 25 3		156	US 7 K 60 FT	600 4/ St / FT	6186792	6339 09 3		155
US 7 170 FT	1700 4/ St / FT	6188598	6340 25 3		305	US 7 K 60 VA4301	600 4/ V2A	6185658	6338 65 8		340
US 7 180 FT	1800 4/ St / FT	6188659	6340 26 1		156	US 7 K 70 FT	700 4/ St / FT	6186853	6339 11 5		155

Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
US 7 K 70 VA4301	700 4/ V2A	6185719	6338 66 6	/pc.	340	WDKRL 200 DD	200 1/ ST / DD	6505210	6231 80 2	/pc.	293
US 7 K 80 FT	800 4/ St / FT	6186914	6339 13 1		155	WDKRL 300 DD	300 1/ ST / DD	6505272	6231 81 0		293
US 7 K 80 VA4301	800 4/ V2A	6185771	6338 67 4		340	WDKRL 400 DD	400 1/ ST / DD	6505333	6231 82 9		293
US 7 K 90 FT	900 4/ St / FT	6186976	6339 16 6		155	WDKRL 500 DD	500 1,25/ ST / DD	6505395	6231 83 7		293
US 7 K 90 VA4301	900 4/ V2A	6185832	6338 68 2		340	WDKRL 600 DD	600 1,25/ ST / DD	6505456	6231 84 5		293
US 7 KS OR	Pastel orange/ PE	5668060	6338 49 7		155	WDR 317 A VA4301	/ V2A	6175390	6232 43 4		297
US 7 KS OR	Pastel orange/ PE	5668060	6338 49 7		305	WDR 317 VA4301	/ V2A	6170296	6227 62 7		293
US 7 KS OR	Pastel orange/ PE	5668060	6338 49 7		340						
VF AZK 50 DD	/ ST / DD	6046089	6066 62 3		319					/m	
VF AZK 50 DD	/ ST / DD	6046089	6066 62 3		326	WDRL 1116 20 DD	200 1/ ST / DD	6072613	6227 60 0		292
VF AZK 50 FS	/ ST / FS	5049623	6066 61 5		319	WDRL 1116 20 FS	200 1/ ST / FS	6169696	6227 42 2		292
VF AZK 50 FS	/ ST / FS	5049623	6066 61 5		326	WDRL 1116 30 DD	300 1/ ST / DD	6072736	6227 60 4		292
VF AZK FT	/ ST / FT	6064991	6066 55 0		319	WDRL 1116 30 FS	300 1/ ST / FS	6169757	6227 43 0		292
VF AZK FT	/ ST / FT	6064991	6066 55 0		326	WDRL 1116 40 DD	400 1/ ST / DD	6072910	6227 60 8		292
						WDRL 1116 40 FS	400 1/ ST / FS	6169818	6227 44 9		292
VF AZK VA4301	/ V2A	6065059	6066 56 9		375	WDRL 1116 50 DD	500 1,5/ ST / DD	6073092	6227 61 2		292
						WDRL 1116 50 FS	500 1,5/ ST / FS	6169870	6227 45 7		292
VIS 8 FT	/ ST / FT	6014231	6018 30 0		170	WDRL 1116 60 DD	600 1,5/ ST / DD	6073276	6227 61 6		292
VIS 8 FT	/ ST / FT	6014231	6018 30 0		307	WDRL 1116 60 FS	600 1,5/ ST / FS	6169931	6227 46 5		292
										/pc.	
VL-3Q1.5 10 SW		5122500	6108 10 9		321	WDTRL 200 DD	200 1/ ST / DD	6504619	6231 66 7		292
VL-3Q1.5 15 SW		5122586	6108 11 4		321						
VL-3Q1.5 3 SW		5122340	6108 10 2		321	WDTRL 300 DD	300 1/ ST / DD	6504671	6231 67 5		292
VL-3Q1.5 5 SW		5122395	6108 10 4		321	WDTRL 400 DD	400 1/ ST / DD	6504732	6231 68 3		292
VL-3Q2.5 10 SW		5123248	6108 15 9		321	WDTRL 500 DD	500 1,25/ ST / DD	6977420	6231 69 1		292
VL-3Q2.5 15 SW		5123354	6108 16 4		321						
VL-3Q2.5 3 SW		5123118	6108 15 2		321	WDTRL 600 DD	600 1,25/ ST / DD	6977482	6231 70 5		292
VL-3Q2.5 5 SW		5123163	6108 15 4		321						
						WEAS 110 FS	110/ St / FS	5242512	6098 47 5		281
VUS 3 FT	/ ST / FT	6229154	6018 51 3		150	WEAS 110 FT	110/ St / FT	5242529	6098 47 9		281
VUS 3 FT	/ ST / FT	6229154	6018 51 3		305	WEAS 110 VA4301	110/ V2A	5242536	6098 48 3		369
						WEAS 110 VA4301	110/ V2A	5242536	6098 48 3		372
VUS 3 VA4301	/ V2A	5706007	6018 51 7		337						
VUS 3 VA4571	/ V4A	5618454	6018 52 0		381	WEAS 160 FS	160/ St / FS	5242543	6098 86 0		285
						WEAS 160 FT	160/ St / FT	5242550	6098 86 4		285
VUS 5 FT	/ St / FT	6446896	6018 50 5		153	WEAS 160 VA4301	160/ V2A / BK	5696346	6098 86 8		370
VUS 5 FT	/ St / FT	6446896	6018 50 5		304						
										/m	
VUS 7 FT	/ ST / FT	6014293	6018 37 8		156	WESP 50 20 BK	3000 4/ ST	6239955	7105 66 5		181
VUS 7 FT	/ ST / FT	6014293	6018 37 8		305						
VUS 7 VA4301	/ V2A	6014354	6018 40 8		341	WESP 60 15 BK	3000 4/ ST	6240012	7105 96 7		181
WAAD 200 DD	200 1,5/ ST / DD	6080717	6231 92 2		292	WKL 2020 FT	200 2,5/ ST / FT	6174799	6232 02 7		294
WAAD 200 FS	200 1,5/ ST / FS	6080410	6231 90 0		292						
WAAD 300 DD	300 1,5/ ST / DD	6080779	6231 92 6		292	WKL 2030 FT	300 2,5/ ST / FT	6174850	6232 03 5		294
WAAD 300 FS	300 1,5/ ST / FS	6080472	6231 90 4		292	WKL 2040 FT	400 2,5/ ST / FT	6174911	6232 04 3		294
WAAD 400 DD	400 1,5/ ST / DD	6080830	6231 93 0		292	WKL 2050 FT	500 2,5/ ST / FT	6174973	6232 05 1		294
WAAD 400 FS	400 1,5/ ST / FS	6080533	6231 90 8		292						
WAAD 500 DD	500 1,5/ ST / DD	6080892	6231 93 4		292	WKL 2060 FT	600 2,5/ ST / FT	6175031	6232 07 8		294
WAAD 500 FS	500 1,5/ ST / FS	6080595	6231 91 2		292	WKLD 2020 DD	200 3000/ ST / DD	6073450	6232 38 0		297
WAAD 600 DD	600 1,5/ ST / DD	6080953	6231 93 8		292	WKLD 2030 DD	300 3000/ ST / DD	6073634	6232 38 4		297
WAAD 600 FS	600 1,5/ ST / FS	6080656	6231 91 6		292	WKLD 2040 DD	400 3000/ ST / DD	6073696	6232 38 8		297
						WKLD 2050 DD	500 3000/ ST / DD	6073757	6232 39 2		297
WB 30 75 FT	/ ST / FT	6014712	6019 61 7		303	WKLD 2060 DD	600 3000/ ST / DD	6073993	6232 39 6		297
WB 30 75 VA4301	/ V2A	6014774	6019 66 8		374						
						WKL 1120 FS	200 2/ ST / FS	6883035	6311 00 8		286
WDBRL 90 20 DD	200 1/ ST / DD	6504015	6231 52 7		292	WKL 1120 FT	200 2/ ST / FT	6883332	6311 05 9		286
WDBRL 90 20 FS	200 1/ ST / FS	6503711	6231 46 2		292	WKL 1120 VA4301	200 2/ V2A	5037262	6311 20 2		371
WDBRL 90 30 DD	300 1/ ST / DD	6504077	6231 53 5		292						
WDBRL 90 30 FS	300 1/ ST / FS	6503773	6231 47 0		292	WKL 1130 FS	300 2/ ST / FS	6883097	6311 01 2		286
WDBRL 90 40 DD	400 1/ ST / DD	6504138	6231 54 3		292	WKL 1130 FT	300 2/ ST / FT	6883394	6311 06 3		286
WDBRL 90 40 FS	400 1/ ST / FS	6503834	6231 48 9		292	WKL 1130 VA4301	300 2/ V2A	5037293	6311 20 6		371
WDBRL 90 50 DD	500 1/ ST / DD	6504190	6231 55 1		292						
WDBRL 90 50 FS	500 1/ ST / FS	6503896	6231 49 7		292						
WDBRL 90 60 DD	600 1/ ST / DD	6504251	6231 57 8		292						
WDBRL 90 60 FS	600 1/ ST / FS	6503957	6231 50 0		292						

Type listing

Structure of the EAN number: Country code **40**

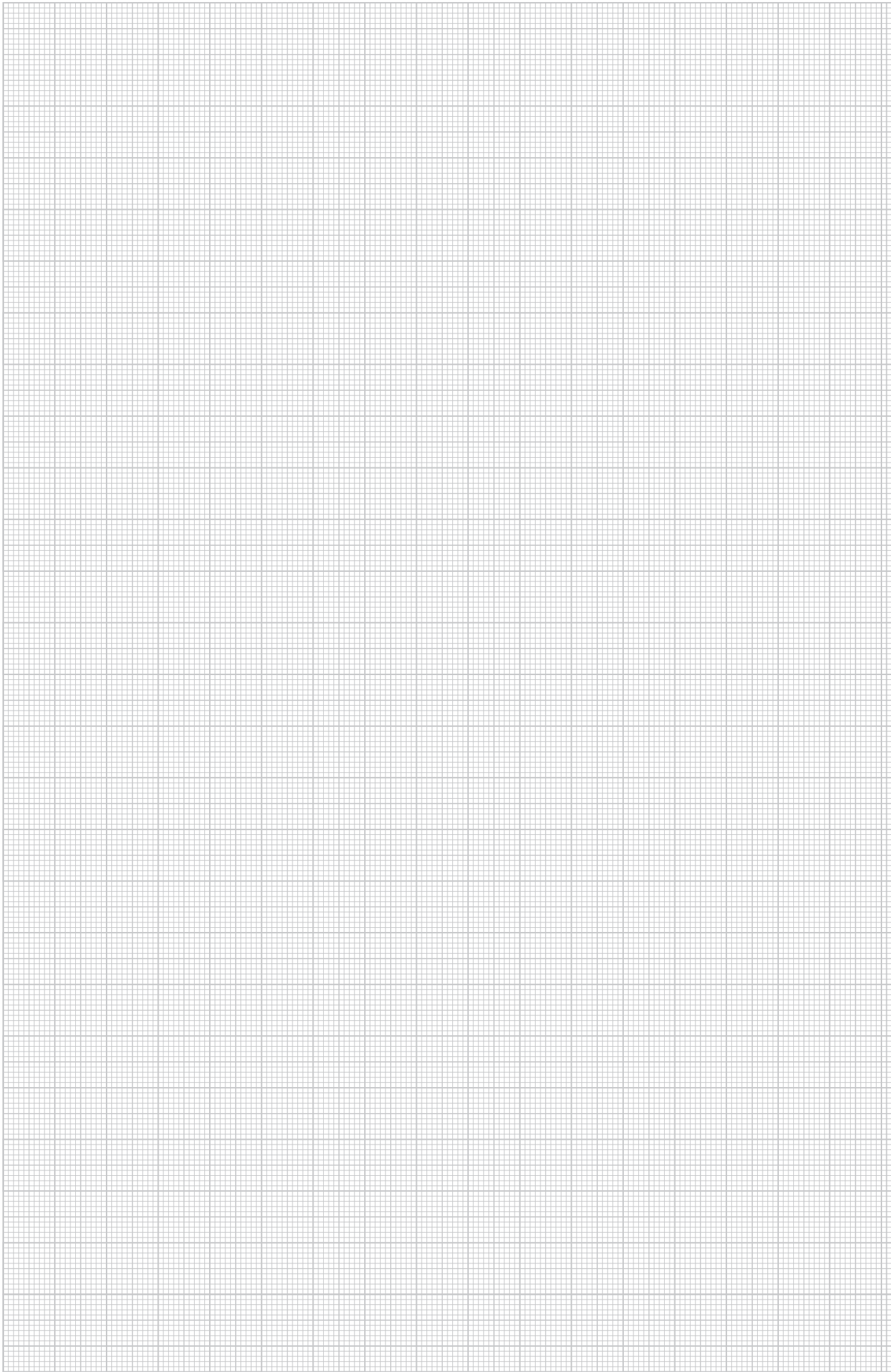
Manufacturer code **1219** (for articles beginning with **0: 1010**)

Individual EAN-C **5647589**

Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
WKLG 1140 FS	400 2/ ST / FS	6883158	6311 01 6	/m	286	WKV 35 FS	35/ ST / FS	6050116	6043 03 8	/pc.	200
	400 2/ ST / FT	6883455	6311 06 7		286						
	400 2/ V2A	5037309	6311 21 0		371		60/ ST / FS	6050178	6043 06 2		210
WKLG 1150 FS	500 2/ ST / FS	6883219	6311 02 0		286	WKV 60 FT	60/ ST / FT	6990382	6042 91 0		210
WKLG 1150 FT	500 2/ ST / FT	6883516	6311 07 1		286						
WKLG 1150 VA4301	500 2/ V2A	5037316	6311 21 4		371	WLB 90 112 FS	200/ ST / FS	6301874	6312 33 0		287
WKLG 1160 FS	600 2/ ST / FS	6883271	6311 02 4		286	WLB 90 112 FT	200/ ST / FT	6302178	6312 43 8		287
	600 2/ ST / FT	6883578	6311 07 5		286	WLB 90 113 FS	300/ ST / FS	6301935	6312 34 9		287
	600 2/ V2A	5037323	6311 21 8		371	WLB 90 113 FT	300/ ST / FT	6302239	6312 44 6		287
WKLG 1620 FS	200 2/ ST / FS	6169092	6227 02 3		289	WLB 90 114 FS	400/ ST / FS	6301997	6312 35 7		287
WKLG 1620 FT	200 2/ ST / FT	6169399	6227 12 0		289	WLB 90 114 FT	400/ ST / FT	6302291	6312 45 4		287
						WLB 90 115 FS	500/ ST / FS	6302055	6312 36 5		287
WKLG 1630 FS	300 2/ ST / FS	6169153	6227 03 1		289	WLB 90 115 FT	500/ ST / FT	6302352	6312 46 2		287
	300 2/ ST / FT	6169450	6227 13 9		289	WLB 90 116 FS	600/ ST / FS	6302116	6312 37 3		287
						WLB 90 116 FT	600/ ST / FT	6302413	6312 47 0		287
WKLG 1640 FS	400 2/ ST / FS	6169214	6227 05 8		289	WLB 90 162 FS	200/ ST / FS	6171798	6229 33 6		290
WKLG 1640 FT	400 2/ ST / FT	6169511	6227 14 7		289	WLB 90 162 FT	200/ ST / FT	6172092	6229 42 5		290
						WLB 90 163 FS	300/ ST / FS	6171859	6229 34 4		290
WKLG 1650 FS	500 2/ ST / FS	6169276	6227 06 6		289	WLB 90 163 FT	300/ ST / FT	6172153	6229 43 3		290
	500 2/ ST / FT	6169573	6227 15 5		289	WLB 90 164 FS	400/ ST / FS	6171910	6229 35 2		290
						WLB 90 164 FT	400/ ST / FT	6172214	6229 44 1		290
WKLG 1660 FS	600 2/ ST / FS	6169337	6227 07 4		289	WLB 90 165 FS	500/ ST / FS	6171972	6229 36 0		290
WKLG 1660 FT	600 2/ ST / FT	6169634	6227 16 3		289	WLB 90 165 FT	500/ ST / FT	6172276	6229 46 8		290
						WLB 90 166 FS	600/ ST / FS	6172030	6229 37 9		290
WKLG 2020 FT	200/ ST / FT	6176892	6233 72 4	/pc.	296	WLB 90 166 FT	600/ ST / FT	6172337	6229 47 6		290
						WLB 90 2020 FT	200/ ST / FT	6176298	6233 42 2		295
						WLB 90 2030 FT	300/ ST / FT	6176359	6233 43 0		295
WKLG 2030 FT	300/ ST / FT	6176953	6233 73 2		296	WLB 90 2040 FT	400/ ST / FT	6176410	6233 44 9		295
						WLB 90 2050 FT	500/ ST / FT	6176472	6233 45 7		295
WKLG 2040 FT	400/ ST / FT	6177011	6233 74 0		296	WLB 90 2060 FT	600/ ST / FT	6176533	6233 46 5		295
WKLG 2050 FT	500/ ST / FT	6177073	6233 75 9		296	WLB 90 162 FT	200/ ST / FT	6174492	6230 72 5		291
						WLB 90 163 FT	300/ ST / FT	6174553	6230 73 3		291
						WLB 90 164 FT	400/ ST / FT	6174614	6230 74 1		291
WKLG 2060 FT	600/ ST / FT	6177134	6233 76 7	/m	296	WLB 90 165 FT	500/ ST / FT	6174676	6230 76 8		291
						WLB 90 166 FT	600/ ST / FT	6174737	6230 77 6		291
WKSG 120 FS	200 2/ ST / FS	6351435	6098 11 1		280	WLB 90 162 FT	200/ ST / FT	6173891	6230 42 3		291
WKSG 120 FT	200 2/ ST / FT	6351732	6098 14 1		280	WLB 90 163 FT	300/ ST / FT	6173952	6230 43 1		291
WKSG 120 VA 4301	200 2/ V2A	5683506	6098 16 1		368	WLB 90 164 FT	400/ ST / FT	6174010	6230 45 8		291
WKSG 130 FS	300 2/ ST / FS	6351497	6098 11 5		280	WLB 90 165 FT	500/ ST / FT	6174072	6230 46 6		291
WKSG 130 FT	300 2/ ST / FT	6370030	6098 14 5		280	WLB 90 166 FT	600/ ST / FT	6174133	6230 47 4		291
WKSG 130 VA 4301	300 2/ V2A	5683513	6098 16 5		368						
WKSG 140 FS	400 2/ ST / FS	6351558	6098 11 9		280	WLK 1120 FT	200/ ST / FT	6303311	6312 93 4		288
WKSG 140 FT	400 2/ ST / FT	6034277	6098 14 9		280	WLK 1130 FT	300/ ST / FT	6303373	6312 94 2		288
WKSG 140 VA 4301	400 2/ V2A	5683520	6098 16 9		368	WLK 1140 FT	400/ ST / FT	6303434	6312 95 0		288
WKSG 150 FS	500 2/ ST / FS	6351619	6098 12 3		280	WLK 1150 FT	500/ ST / FT	6303496	6312 96 9		288
WKSG 150 FT	500 2/ ST / FT	6034031	6098 15 3		280	WLK 1160 FT	600/ ST / FT	6303557	6312 97 7		288
WKSG 150 VA 4301	500 2/ V2A	5683568	6098 17 3		368						
WKSG 160 FS	600 2/ ST / FS	6351671	6098 12 7		280	WLT 1120 FS	200/ ST / FS	6302475	6312 63 2		287
WKSG 160 FT	600 2/ ST / FT	6033973	6098 15 7		280	WLT 1120 FT	200/ ST / FT	6302710	6312 71 3		287
WKSG 160 VA 4301	600 2/ V2A	5683575	6098 17 7		368						
WKSG 162 FS	200 2/ ST / FS	6334810	6098 50 1		283	WLT 1130 FS	300/ ST / FS	6302536	6312 64 0		287
WKSG 162 FT	200 2/ ST / FT	6810734	6098 55 0		283	WLT 1130 FT	300/ ST / FT	6302772	6312 72 1		287
WKSG 162 VA 4301	200 2/ V2A	5683582	6098 57 1		369	WLT 1140 FS	400/ ST / FS	6302598	6312 65 9		287
WKSG 163 FS	300 2/ ST / FS	6812059	6098 50 5		283	WLT 1140 FT	400/ ST / FT	6302833	6312 74 8		287
WKSG 163 FT	300 2/ ST / FT	6766390	6098 55 4		283	WLT 1150 FS	500/ ST / FS	6304271	6312 66 7		287
WKSG 163 VA 4301	300 2/ V2A	5683599	6098 57 3		369	WLT 1150 FT	500/ ST / FT	6302895	6312 75 6		287
WKSG 164 FS	400 2/ ST / FS	6808939	6098 50 9		283	WLT 1160 FS	600/ ST / FS	6302659	6312 67 5		287
WKSG 164 FT	400 2/ ST / FT	6766451	6098 55 8		283	WLT 1160 FT	600/ ST / FT	6302956	6312 76 4		287
WKSG 164 VA 4301	400 2/ V2A	5683605	6098 57 5		369						
WKSG 165 FS	500 2/ ST / FS	6808397	6098 51 3		283	WLT 1620 FT	200/ ST / FT	6172696	6229 72 7		291
WKSG 165 FT	500 2/ ST / FT	6656059	6098 56 2		283	WLT 1630 FT	300/ ST / FT	6172757	6229 73 5		291
WKSG 165 VA 4301	500 2/ V2A	5683612	6098 57 7		369						
WKSG 166 FS	600 2/ ST / FS	6808335	6098 51 7		283	WLT 1640 FT	400/ ST / FT	6172818	6229 74 3		291
WKSG 166 FT	600 2/ ST / FT	6656295	6098 56 6		283	WLT 1650 FT	500/ ST / FT	6172870	6229 75 1		291
WKSG 166 VA 4301	600 2/ V2A	5683629	6098 57 9		369	WLT 1660 FT	600/ ST / FT	6172931	6229 77 8		291

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Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	EAN-C.	Art. no.	Price	Page
WLT 2020 FT	200/ ST / FT	6176595	6233 62 7	/pc.	296	WRGV 110 VA4301	110-110 / V2A	6897018	6091 33 8	/pc.	372
WLT 2030 FT	300/ ST / FT	6176656	6233 63 5		296	WRGV 160 FS	160/ ST / FS	6171071	6227 95 3		284
WLT 2040 FT	400/ ST / FT	6176717	6233 64 3		296	WRGV 160 FS	160/ ST / FS	6171071	6227 95 3		290
WLT 2050 FT	500/ ST / FT	6176779	6233 65 1		296	WRGV 160 FT	160/ ST / FT	6171132	6227 96 1		284
WLT 2060 FT	600/ ST / FT	6176830	6233 67 8		296	WRGV 160 FT	160/ ST / FT	6171132	6227 96 1		290
WP 30 35 5000 FT	5000/ St / FT	5614159	6373 10 3		180	WRGV 160 VA4301	160/ V2A / BK	5696407	6227 96 5		370
WP 30 35 FT	2000/ ST / FT	6199754	6373 10 0		180	WRV 200 FT	200/ ST / FT	6175574	6232 50 7		294
WP 40 65 FT	5000/ ST / FT	6199693	6373 07 0	/m	181	WRVL 110 FS	110/ ST / FS	6299171	6091 16 4		280
WP 40 65 VA4301	5000/ V2A	6199631	6373 06 2		345	WRVL 110 FS	110/ ST / FS	6299171	6091 16 4		286
WPK SL OR	Pastel orange/ PE	5668107	6372 89 8	/pc.	181	WRVL 110 FT	110/ ST / FT	6299232	6091 18 0		280
WPK SL OR	Pastel orange/ PE	5668107	6372 89 8		345	WRVL 110 FT	110/ ST / FT	6299232	6091 18 0		286
WPK SR OR	Pastel orange/ PE	5668091	6372 88 1		181	WRVL 110 VA4301	110-110 / V2A	6901814	6091 22 9		368
WPK SR OR	Pastel orange/ PE	5668091	6372 88 1		345	WRVL 110 VA4301	110-110 / V2A	6901814	6091 22 9		371
WRAA 120 FS	200/ ST / FS	6352395	6098 40 5		281	WRVL 160 FS	160/ ST / FS	6170470	6227 70 8		283
WRAA 120 FT	200/ ST / FT	6001033	6098 44 5		281	WRVL 160 FS	160/ ST / FS	6170470	6227 70 8		289
WRAA 130 FS	300/ ST / FS	6352456	6098 40 9		281	WRVL 160 FT	160/ ST / FT	6170531	6227 71 6		283
WRAA 130 FT	300/ ST / FT	6001095	6098 44 9		281	WRVL 160 FT	160/ ST / FT	6170531	6227 71 6		289
WRAA 140 FS	400/ ST / FS	6352517	6098 41 3		281	WRVL 160 VA4301	160/ V2A	5684107	6227 72 4		370
WRAA 140 FT	400/ ST / FT	6001156	6098 45 3		281	WRVV 160 A FS	160/ ST / FS	6170838	6227 85 6		283
WRAA 150 FS	500/ ST / FS	6352579	6098 41 7		281	WRVV 160 A FS	160/ ST / FS	6170838	6227 85 6		289
WRAA 150 FT	500/ ST / FT	6001217	6098 45 7		281	WRVV 160 A FT	160/ ST / FT	6170890	6227 86 4		283
WRAA 160 FS	600/ ST / FS	6000975	6098 42 1		281	WRVV 160 A FT	160/ ST / FT	6170890	6227 86 4		289
WRAA 160 FT	600/ ST / FT	6001279	6098 46 1		281	WRVV 160 A V2A	160/ V2A / BK	5696353	6227 86 8		370
WRAA 162 FS	200/ ST / FS	6656653	6098 80 0		285	WRVV 160 I FS	160/ ST / FS	6170951	6227 90 2		283
WRAA 162 FT	200/ ST / FT	6335770	6098 82 7		285	WRVV 160 I FS	160/ ST / FS	6170951	6227 90 2		289
WRAA 163 FS	300/ ST / FS	6656714	6098 80 4		285	WRVV 160 I FT	160/ ST / FT	6171019	6227 91 0		283
WRAA 163 FT	300/ ST / FT	6335831	6098 83 1		285	WRVV 160 I FT	160/ ST / FT	6171019	6227 91 0		289
WRAA 164 FS	400/ ST / FS	6335596	6098 80 8		285	WRVV 160 I V2A	160/ V2A / BK	5696360	6227 91 4		370
WRAA 164 FT	400/ ST / FT	6335893	6098 83 5		285	WRVV 200 A FT	200/ ST / FT	6175758	6232 60 4		294
WRAA 165 FS	500/ ST / FS	6335657	6098 81 2		285	WRVV 200 I FT	200/ ST / FT	6175819	6232 61 2		294
WRAA 165 FT	500/ ST / FT	6656776	6098 83 9		285	WRVV 200 V FT	200/ ST / FT	6175932	6232 66 3		294
WRAA 166 FS	600/ ST / FS	6335718	6098 81 6		285	WRWVK 110 FS	110-110 / ST / FS	6309610	6091 37 7		280
WRAA 166 FT	600/ ST / FT	6657018	6098 84 3		285	WRWVK 110 FS	110-110 / ST / FS	6309610	6091 37 7		286
WRB 90 120 FS	200/ ST / FS	6033676	6098 30 4		281	WRWVK 110 VA4301	110-110 / V2A	6309672	6091 39 3		280
WRB 90 120 FT	200/ ST / FT	6352159	6098 34 4		281	WRWVK 110 VA4301	110-110 / V2A	6309672	6091 39 3		286
WRB 90 130 FS	300/ ST / FS	6351916	6098 30 8		281	WRWVK 110 VA4301	110-110 / V2A	6309672	6091 39 3		368
WRB 90 130 FT	300/ ST / FT	6352210	6098 34 8		281	WRWVK 110 VA4301	110-110 / V2A	6309672	6091 39 3		372
WRB 90 140 FS	400/ ST / FS	6351978	6098 31 2		281	WSK 40 100 FT	954/ ST / FT	6007455	6008 10 0		308
WRB 90 140 FT	400/ ST / FT	6624737	6098 35 2		281	WSK 40 110 FT	1054/ ST / FT	6007516	6008 11 9		308
WRB 90 150 FS	500/ ST / FS	6352036	6098 31 6		281	WSK 40 120 FT	1154/ ST / FT	6007578	6008 12 7		308
WRB 90 150 FT	500/ ST / FT	6352272	6098 35 6		281	WSK 40 40 FT	354/ ST / FT	6007097	6008 04 6		308
WRB 90 160 FS	600/ ST / FS	6352098	6098 32 0		281	WSK 40 50 FT	454/ ST / FT	6007158	6008 05 4		308
WRB 90 160 FT	600/ ST / FT	6352333	6098 36 0		281	WSK 40 60 FT	554/ ST / FT	6007219	6008 06 2		308
WRB 90 162 FS	200/ ST / FS	6335237	6098 70 3		284	WSK 40 70 FT	654/ ST / FT	6007271	6008 07 0		308
WRB 90 162 FT	200/ ST / FT	6335534	6098 73 0		284	WSK 40 80 FT	754/ ST / FT	6007332	6008 08 9		308
WRB 90 163 FS	300/ ST / FS	6335299	6098 70 7		284	WSK 40 90 FT	854/ ST / FT	6007394	6008 09 7		308
WRB 90 163 FT	300/ ST / FT	6656417	6098 73 4		284	WW 100 15 FS	/ ST / FS	6608591	6015 36 0		142
WRB 90 164 FS	400/ ST / FS	6335350	6098 71 1		284	WW 100 20 FS	/ ST / FS	6608652	6015 37 9		142
WRB 90 164 FT	400/ ST / FT	6656479	6098 73 8		284	ZSF		5518419	2362 97 0		194
WRB 90 165 FS	500/ ST / FS	6335411	6098 71 5		284						
WRB 90 165 FT	500/ ST / FT	6656530	6098 74 2		284						
WRB 90 166 FS	600/ ST / FS	6335473	6098 71 9		284						
WRB 90 166 FT	600/ ST / FT	6656592	6098 74 6		284						
WRGV 110 FS	110/ ST / FS	6299294	6091 31 8		280						
WRGV 110 FS	110/ ST / FS	6299294	6091 31 8		287						
WRGV 110 FT	110/ ST / FT	6299355	6091 33 4		280						
WRGV 110 FT	110/ ST / FT	6299355	6091 33 4		287						
WRGV 110 VA4301	110-110 / V2A	6897018	6091 33 8		368						



Terms and conditions of sale and delivery of the companies OBO BETTERMANN GmbH & Co. KG and OBO BETTERMANN Projekt und Systemtechnik GmbH, and OBO Befestigungselemente GmbH, Menden

1. All our supplies and services shall be governed exclusively by the following terms and conditions, including our additional terms and conditions for cable tray business transactions. Any terms and conditions of business and purchasing of the customer shall be valid only if we have acknowledged them in writing. Our quotations are without engagement; they are mere invitations to submit contract offers. Any and all transactions and agreements, including those entered into by our employees and agents shall only be binding upon our written confirmation or invoicing. The foregoing provision shall also apply to any modifications of the agreed formal requirements.

2. The documents and data pertaining to the quotation, such as illustrations, brochures, drawings, dimensions, loading capacity values and weight details are approximate only, unless they are expressly stipulated to be binding.

Samples are non-binding samples for inspection. Any purchase according to sample will be subject to customary deviations and deviations resulting from normal production processes. The properties of the sample shall be no guaranteed quality of the purchase object unless expressly stated otherwise in the confirmation of order. Samples must be returned to us at the latest within four weeks in perfect condition. If they are not returned within this period in proper condition, we shall be entitled to charge the purchase price for the sample in accordance with our current price list. All information on our products, in particular the illustrations, drawings, weight, dimension and performance data included in our quotations and printed matter shall be regarded as approximate average values and shall not represent any quality guarantee.

With regard to products made according to customer drawings, samples and other instructions of the customer, we will not provide any warranty nor assume any liability for the due and proper functioning of the product or for any other defects if and to the extent they are based upon the customer's specifications. The customer shall indemnify us from any third party claims, including claims for product liability as may be asserted against us for damages resulting from the products unless we have caused such damages by intent or gross negligence. The customer shall warrant that the manufacture and supply of products made in accordance with his instructions will not infringe any proprietary rights of third parties. Should any proprietary rights be asserted against us, we shall be entitled, without any legal review of the third party claims, to withdraw from the contract after hearing the customer, unless the third party withdraws the claims asserted against us under its proprietary rights within eight days by written declaration. The customer shall compensate us for any damage sustained as a result of the assertion of proprietary rights. In case of withdrawal, the work we have carried out so far shall be remunerated. Further rights under the statutory provisions shall not be affected thereby.

Any moulds, tools and design data produced by us for the execution of the order shall be our exclusive property. Unless expressly agreed otherwise, the customer shall not have any claims thereto, even if he has contributed to the costs of producing any such moulds, tools and design data.

3. The packing, shipping route and means of transportation shall be left to our discretion in the absence of any other agreements. They shall be charged at their cost price. We will take back undamaged cases, when being returned carriage paid, at 2/3 of the amount invoiced. The one-way or pool pallets used for transport shall be either exchanged upon taking delivery or returned. The smallest packing units stocked and listed may not be broken up for rationalisation reasons. In case of orders for different quantities, the nearest packing unit will be supplied.

We reserve the right to deviate from the agreed delivery quantity, in particular in the case of custom-made products, to a customary extent or in conformity with national or international standards. In case of a demand for adhering to a precise quantity, an express reference is necessary and subject to confirmation.

Master and call orders shall oblige the customer to accept the total quantity on which the master/call order is based. Where no particular call orders are specified in the contract, the total quantity of the master call order must be called within twelve months. If the customer fails to adhere to call deadlines, we shall be entitled to deliver and charge the total quantity in full after four weeks from written notice with reference to the consequences of any failure to call. Our rights arising from any default of the customer shall not be affected thereby.

4. Unless otherwise agreed, our prices are quoted ex works and do not include packing and insurance. The value added tax at the rate applicable on the date of dispatch will be added to our prices. The purchaser shall ensure the correctness of his VAT identification number, which he must notify to us immediately without being asked. He shall undertake to inform both us and the competent domestic tax authority without delay of any change in his name, address and VAT identification number.

Delivery shall be franco domicile within Germany, i.e. carriage and packing prepaid, if the net order value is in excess of € 1,200. For small orders below € 100 (net excluding value added tax), we shall invoice a lower quantity surcharge of € 10 (net) per order. Upon transfer of our supplies and services to a carrier or forwarding agent, at the latest upon their leaving our warehouse or supply plant, the risk shall pass to the recipient, even in case of deliveries free place of destination.

5. Delivery periods and delivery deadlines shall be approximate only unless we have expressly stated in writing that they are binding. Delivery periods shall commence upon receipt of our confirmation of order, but not before clarification of all execution details, ex place of delivery. The customer shall only be entitled to withdraw from the contract after having granted a reasonable extension of time. We reserve the right to make partial deliveries. Claims for damages and reimbursement of expenses - for any reason whatsoever - shall be subject to the provisions set out in article 10.

In the event of any circumstances that are beyond our control within the scope of normal operating risks and obstruct or make impracticable any delivery, we shall be entitled to suspend delivery by the duration of such obstruction plus a reasonable start-up period or to withdraw from the contract for the part not yet fulfilled. The purchaser can demand a statement from us as to whether we wish to deliver within a reasonable period or withdraw. If we fail to make such a statement, the purchaser may withdraw. Our notice to the purchaser shall be deemed to be sufficient evidence that we have been prevented from delivering.

Delivery time is extended in case of such events as labour disputes, strikes and lockouts, orders from the authorities, difficulties with the procurement of materials, spoiled work or post-processing, shutdowns and staff shortage as well as shortage of means of transport, and general occurrence of unforeseen events beyond our scope of influence, by the length of duration of these events.

6. Payments shall be made upon receipt of invoice less a 3% cash discount for payment within 10 days or net after 30 days from date of invoice. Erection work and all paid labour work must be paid within 10 days without deduction of any cash discount. In case of non-cash payments, the date of the credit note will be deemed to be the date of receipt of payment. Payments received shall always be credited first against costs, then against interest and then against the earliest liability. Cheques and bills of exchange shall only be accepted as means of payment. Any payment by bill of exchange shall be subject to a prior separate and written agreement, whereby all bill costs shall be borne by the customer and no discount can be granted. The customer shall have no right to refuse performance and no right of retention - for any legal reason whatsoever - unless we have acknowledged his claim beforehand in writing or his claim has the force of law.

The customer shall only be entitled to set off claims which have the force of law, are undisputed or acknowledged by us in writing.

7. We shall retain title to the goods supplied by us until all our claims arising from our business transactions with the customer have been satisfied - current account clause - and all bills of exchange or cheques submitted for payment by the customer have been honoured.

Any treatment or processing of goods subject to our retention of title (reserved goods) shall be carried out for us as the manufacturer in accordance with § 950 BGB (German Civil Code) without any obligation on our part. If our reserved goods are to be regarded as the main item or the main item is owned by the customer, full title to the new item shall pass to us when it is created. In other cases, we shall acquire a co-ownership interest in the new item in the proportion of the sales value of our reserved goods to the other goods used for the new item at the time of processing, intermingling, joining or mixing. The customer shall take custody of our ownership or co-ownership interest free of charge; it shall be treated as reserved goods.

Before transfer of title, our goods shall be neither pledged nor assigned as collateral without our prior consent. In addition, any third party rights or pledges shall be notified to us immediately and we shall be given all details and provided all documents necessary for intervention; otherwise the customer must bear our loss. In the latter case, our total claims against the customer shall also be immediately payable.

The customer shall be entitled to sell or to use our reserved goods in the ordinary course of business subject to the condition that the relevant claims are transferred in accordance with article 8 below. This right shall lapse upon the customer's failure to promptly meet his payment obligations towards us or in the event of any cheque or bill protests or his suspension of payments. In such cases, we shall be entitled to take back the goods provisionally at the

customer's expense and to sell them at our duly exercised discretion after a corresponding reminder has been sent to the customer. We will then pass the due amount to the customer's credit.

8. If our goods are sold before payment of our claim, the customer shall be obliged to retain our title against his purchaser until the goods have been paid for in full by the purchaser. The claim arising against the purchaser from such resale as well as any other ancillary rights or security interests of the customer resulting from the sale and any claims for compensation in case of damage to or destruction of our reserved property, including the relevant insurance sum shall hereby be assigned to us. We hereby accept this assignment. Where our co-ownership interest is sold, the relevant claims shall be assigned in the amount corresponding to the value of our interest.

The customer shall, at our request, inform us of his purchasers, notify them of the assignment made and provide us with any and all documents required to assert our rights.

As long as the customer meets his contractual obligations without delay, he shall be authorised to collect the claims assigned. He shall keep the amounts collected on our behalf separately and remit them to us immediately as soon and as far as our claims become due. The authorisation shall lapse in case of any cheque or bill protest of the customer or his definite suspension of payments. The customer shall bear the costs incurred for any action taken against third parties and shall advance them upon request.

If the security provided to us by the retention of title and the anticipatory assignment should exceed the claims to be secured by more than 20%, we shall, at the customer's request, release paid supplies of our choice. Upon payment of all our claims by the customer, assigned claims shall pass to the customer.

9. Any complaints for obvious defects regarding the quantity or quality of our supplies and services that are identifiable upon careful inspection shall without delay, but at the latest within the period of limitation of eight days from arrival of the goods at the address of the customer or the person appointed by him, be notified in writing to us, not to our representatives. Slight deviations in dimensions and designs within the scope of defined technical tolerances shall not give rise to any right of complaint. Any rejected goods may only be returned to us with our prior written authorisation.

In case of justified complaints within the prescribed period, we shall, at our option, take remedial action by way of subsequent performance, by rectifying the defect, supplying non-defective goods or providing a credit note for the lower value calculated.

We shall be entitled to refuse subsequent performance in accordance with the statutory provisions. If we refuse subsequent performance, if any subsequent performance remains unsuccessful or if the customer cannot be reasonably expected to accept any subsequent performance, the latter shall be entitled to withdraw from the contract in compliance with the provisions of the following sentences. The customer shall only be entitled to withdraw from the contract - where a withdrawal is not excluded by law - upon the unsuccessful expiry of a reasonable period for subsequent performance set by him, unless this period was not required under the statutory provisions (§§ 281 para. 2, 323 para. 2, 440, 441 para. 1 BGB (German Civil Code)).

In case of his withdrawal, the customer shall be liable for any deterioration, destruction or loss of use resulting from any negligence or intent on his part. Any claims for damages or reimbursement of expenses of the customer shall be subject to the provisions set out in article 10.

In the case of any fraudulent concealment of a defect or in the case of any provision of a quality guarantee for the goods sold at the time of the passing of risk within the meaning of § 444 BGB (German Civil Code) (seller's declaration that the object sold has a specific property at the time of the passing of risk and that the seller, regardless of any fault on his part, intends to be answerable for any and all consequences resulting from its absence), the customer's rights shall be exclusively governed by the statutory provisions.

We shall - in addition to the statutory grounds for refusal - also be entitled to refuse subsequent performance if and as long as the customer fails to send us, at our request, the rejected goods or a sample thereof; the customer shall have no right of withdrawal for any such refusal. We may further refuse any subsequent performance if the goods concerned have been altered or modified without our consent unless the customer can prove that the defect was not caused by such alteration or modification.

The limitation period for any claims arising from defects shall be one year; in the case of goods which have been used in accordance with their intended purpose for a building and have caused its defectiveness, the limitation period shall be two years. The provisions of §§ 478, 479 BGB (German Civil Code) on recourse in the chain of suppliers shall not be affected thereby.

10. In the case of a pre-contractual, contractual or non-contractual breach of duty, including unsatisfactory delivery, tortious conduct and producer's liability, we shall only be liable for compensatory damages and reimbursement of expenses - subject to further contractual or statutory liability requirements - in the case of intent, gross negligence or slightly negligent breach of a material contractual duty (contractual duty the infringement of which jeopardises the fulfilment of the object of the contract). However - except in the case of intent - our liability shall be limited to the typical contractual damage that was foreseeable at the time the contract was entered into.

The purchaser shall not be permitted to make a claim for expenses incurred in vain.

Except for any breach of material duties, our liability for slight negligence shall be excluded, but in any case be limited to the amount of the purchase price.

Any claim asserted by the customer or a third party for payment of a contractual penalty shall be excluded.

With regard to damages caused by delay, we shall only be liable for slight negligence up to the amount of 5% of the purchase price agreed with us.

The exclusions and limitations of liability set forth above shall not apply in the event that a guarantee is given with respect to the quality of the object sold within the meaning of § 444 BGB (German Civil Code) if a defect is fraudulently concealed or in the event of injury to life, physical injury or injury to health, or strict liability under the German Product Liability Act.

Any and all claims for damages against us, for any legal reason whatsoever, shall become statute-barred at the latest after one year from delivery of the goods to the customer, in the case of tortious liability from the time of knowledge, or grossly negligent ignorance, of the circumstances giving rise to the claim and the person liable to pay damages. This provision shall not apply in the case of liability for intent and in the event that a guarantee is given for the quality of the object sold, in the case of fraudulent concealment of a defect or in the event of injury to life, physical injury or injury to health, or strict liability under the German Product Liability Act. Any shorter limitation periods shall take precedence.

11. We shall be entitled to process and store any customer data obtained with regard to or in connection with the business relationship in accordance with the German Federal Data Protection Act, irrespective of whether such data is provided by the purchaser himself or by any third parties.

12. Place of performance for delivery and payment is Menden/Sauerland. The court of competent jurisdiction for any and all disputes, including disputes with regard to bills of exchange and cheques, is the Local Court (Amtsgericht) of Menden or, at our option, the District Court (Landgericht) of Arnsberg, irrespective of the value of the object in dispute. We shall, however, also be entitled to take legal proceedings against the customer at the place of his registered office.

German law shall be exclusively applicable. The application of international purchase laws is hereby excluded.

Should, for any reason whatsoever, individual provisions of our terms and conditions of sale and delivery be invalid, the validity and binding nature of the other provisions shall not be affected thereby. The customer agrees, that the invalid provision shall be replaced by a valid provision that comes as close as possible to the economic meaning of the invalid provision.

13. The prices of products made of brass and copper are subject to certain fluctuations that are based on the relevant DEL listings. The prices of our brass articles are based on a DEL listing of € 150 for Ms 58, those of our copper products on a DEL value for electrolyte copper of € 200.

In case of any increase or reduction in these prices by more than € 15, a five per cent surcharge or deduction shall be made for each 15 points. The calculation of any such surcharges or deductions shall be based on the DEL listing of the date of our receipt of the order.

Valid from August 2004



QR-Code

With the QR Code you have direct access to our products on the Internet.

You can find further information on the QR Code at www.obo-bettermann.com.

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