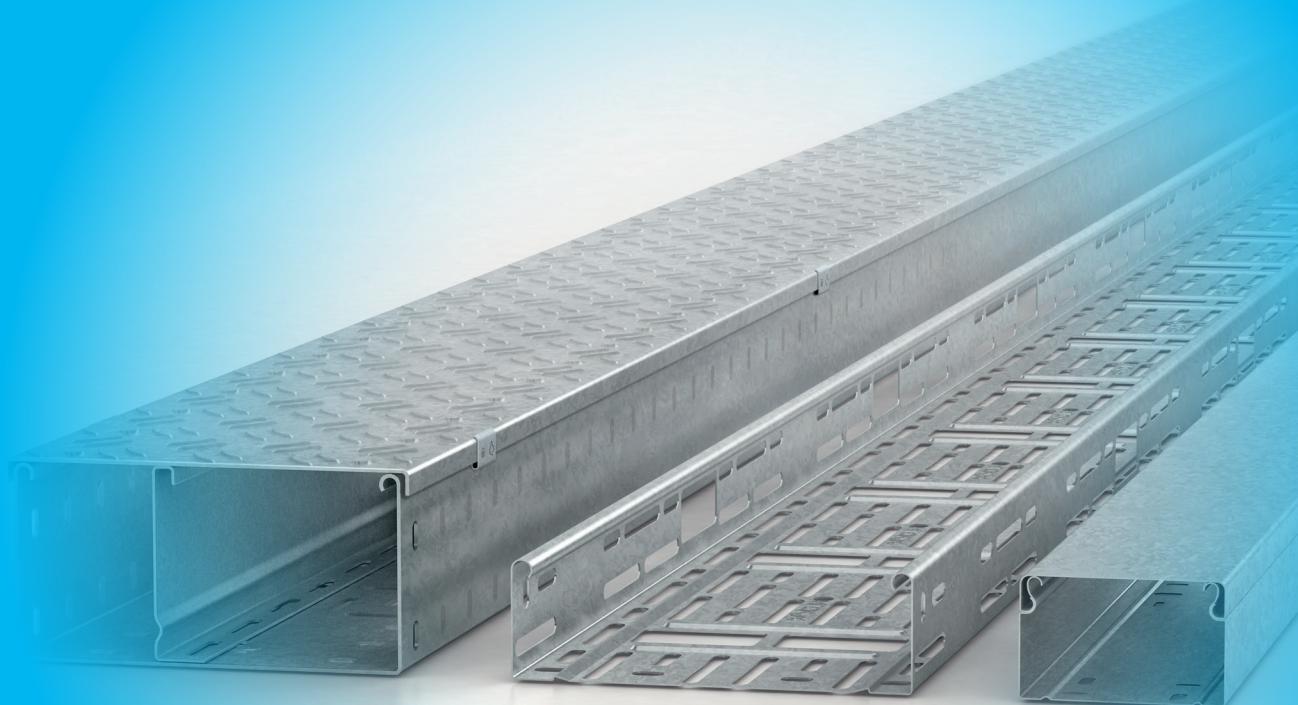




NIEDAX GROUP



KSA

CABLE TRAY SYSTEMS
FOR AUTOMATION AND PLANT CONSTRUCTION

2020



NIEDAX GROUP



CERTIFIED SAFETY CREATES CONFIDENCE



Components, equipment or systems with the VDE seal comply with the highest testing standards. Therefore, the Niedax Group strives to meet all of the requirements and conditions relating to health and safety.

The ***NX CITO LINE***-cable tray system is just one example from our range of products that has successfully passed the testing and certification process carried out by the VDE (Testing and Certification Institute for Electrical Products).



ALL PRODUCTS ARE
CE COMPLIANT



ASK ABOUT OUR
UL CERTIFICATIONS

You can find other certifications on our website at:
www.niedax-group.com/en/corporate-group/standards-certification/

ICONS

	New		Siderail height in mm		Operating temperature range		Reference note
	Discontinued model		Wire diameter in mm		Fast install		Information pages
	Halogen-free		Cover hole and depth in mm		Hardware		
	Silicone-free		Pipe diameter in mm		Installation instructions		

All products in this catalog are classified according to the EAN code (13 digits). The first 7 digits indicate the country (40 = Germany) and the manufacturer's code (13339 = Niedax).

The following six digits are the product code.

Example EAN code of the product TK = 40 60.85 13339 183708.



Please ask for the certifications VDE/UL



All products are CE compliant



BIM-Data on request

Steel

B	Steel, bare
V	Steel, electro galvanized according to DIN EN ISO 50 961/50979 and DIN EN 2081, blue passivated, (Replacement galvanized according to DIN EN ISO 4042)
VC	Steel, electro galvanized according to DIN 50961/50979 and DIN EN ISO 2081, blue passivated and powdercoated
VZL	Steel, electro galvanized according to DIN EN ISO 2081, blue passivated, top layer sealed
G	Steel, electro galvanized according to DIN EN ISO 50 961/50979 and DIN EN ISO 2081, passivated, (Replacement galvanized according to DIN EN ISO 4042)
S	Steel, pre-galvanized according to DIN EN 10346
F	Steel, hot dip galvanized after fabrication (HDGAF) according to DIN EN ISO 1461 (Replacement according to DIN EN ISO 50 976)
SB	Steel, black-oxide finish
FG	Steel, geomet® galvanized
DV	Steel, wire galvanized according to DIN EN 10244
C1	Epoxy Coating, halogen-free
C	COLOR Steel, pre-galvanized and powdercoated

STANDARD COLOURS						
C	R	W	L	WA	N	P
Complete model-No. for the colour identity	white RAL 9010	creme white RAL 9001 on stock	light grey RAL 7035	white aluminium RAL 9006	aluminium natural anodized	aluminium plate-finished

Other RAL colours on request. For possible colour divergences we assume no liability.

F1	Steel, zinc coating and chromate Steel, zinc coating & chromate Thickness of zinc is between 8-12 microns, electrolytic galvanizing & additionally chromated. Corrosion resistance measured by using a salt spray test according to DIN 50021 (ASTM-B117-90) at least 72 hours	F6	Natural colour Untreated material against corrosion.
F2	Steel, hot dip galvanized Thickness of zinc between 50-70 microns, after immersion machining in a bath of molten zinc.	F7	Steel, plastic coating EVA (Ethylene Vinyl Acetate Copolymer Saponifies, Levasint®) resistance to fire according to DIN 4102.
F3	Stainless steel (material code: 1.4401 [316]) Indoor use / Outdoor in humid environments and moderately aggressive.	F8	Steel, mechanical zinc plated / passivated High quality coating. Corrosion resistance measured by means of a test salt spray according to DIN 50 021 (ASTM-B117-90) is at least 500 hours.
F4	Steel, coated Dekor-lacquer interior use in dry environments and not corrosive.	F9	Steel, mechanical zinc plated / passivated High quality coating. Corrosion resistance measured by means of a test salt spray according to DIN 50021 (ASTM-B117-90) is at least 600 hours.
F5	Brass For indoor use only.	F10	Steel, electrical mechanical / passivated Zinc coating thickness of 5 microns, electrolytically applied and clear passivated according to BS EN 12329 2000 FE/ZNS//A.

AL Aluminium, N = naturally anodized, P = mill-finished, C = powdercoated in RAL colours

P Electrotechnical Porcelain, halogen-free **MS** Brass **CU** Copper

Stainless Steel

E1	Material code: 1.4016	E4	Material code: 1.4401, 1.4404	E7	Material code: 1.4547	E10	Material code: 1.4307
E2	Material code: 1.4310	E5	Material code: 1.4571	E8	Material code: 1.4430	E11	Material code: 1.4034
E3	Material code: 1.4301, 1.4303	E6	Material code: 1.4529	E9	Material code: 1.4362		

Plastics/Elastomer

K01	PA - Polyamide, halogen-free	K14	POM - Polyoxyethylene, halogen-free
K02	PS - Polystyrene, halogen-free, impact resistant	K15	SBR - Styrene Butadiene Rubber, halogen-free
K03	PE - Polyethylene, halogen-free	K16	CR/NBR - Chloroprene/Nitrile Butadiene Rubber, halogenated
K04	PP - Polypropylene, halogen-free	K17	CR/SBR - Chloroprene/Styrene Butadiene Rubber, halogenated
K05	PC - Polycarbonate, halogen-free	K18	TPE - Thermoplastic Elastomers, halogen-free
K06	SBR/NBR - Styrene Butadiene Nitrile Rubber, halogen-free	K19	FS 31 - Moulding material 31 (Phenolic Resin), halogen-free
K07	CR - Neoprene (Chloroprene Rubber), halogenated	K20	SI - Silicone Rubber, halogen-free
K08	NBR - Nitrile Butadiene Rubber, halogen-free	K21	PUR - Polyurethanes, halogen-free
K09	PVC hard - Polyvinyl Chloride Hard, halogenated	K22	PET - Polyethylene Terephthalate, halogen-free
K10	PVC - Polyvinyl Chloride Soft, halogenated	K23	UP-GF - Glass Fiber Reinforced Polyester, halogen-free
K11	ABS - Acrylnitrile Butadiene Styrene, halogen-free	K24	PBT - Polybutylene Terephthalate, halogen-free
K12	ASA - Acrylic Acid Ester-Styrene-Acrylonitrile Graft Copolymer, halogen-free		

Flexibility, Service and Customer Proximity

is a top priority for us!

We achieve these characteristics not least through good organisation and logistics but also through our comprehensive warehouse structure.

Starting from the central warehouse in St. Katharinen, all warehouses in Germany are supplied. This ensures the nationwide supply of both our sales representatives and the regional warehouses.

Also the global orientation on all essential markets of the world is of great importance. With its own sales company we have excellent references from our subsidiaries and production facilities in 25 cities around the world and from our business partners in many other countries.

Automation and plant construction

Especially for applications in automation and plant construction we have compiled an exclusive selection of Focus articles in the field of cable and cable routing systems as well as fastening technology.

All systems are made of high-quality steel and are also available in stainless steel versions. The various surface finishes ensure use both in dry interiors and outdoors or in aggressive environments.

Accessories specially matched to the systems enable an installation-friendly and efficient laying technique. This allows horizontal and vertical directional changes to be made on site without any problems.

The wide range guarantees that the most variety applications for cable routing can be covered.



Please note:

- The coefficient of linear expansion α indicates the increase (decrease) in length, which is the unit of length of a body in the case of a temperature change by 1 K. α Steel = $0,012 \times 10^{-3} \text{ K}^{-1}$, α Aluminium = $0,024 \times 10^{-3} \text{ K}^{-1}$, α PVC = $0,072 \times 10^{-3} \text{ K}^{-1}$ $\Delta l = l \text{ Channel} \times \alpha \times \Delta \vartheta$
- If power cables accumulate please consider the heating, see DIN VDE 298 Part 4.
- For the installation of our electrical installation duct systems the installation regulations DIN VDE 0100-410 and DIN VDE 0100-540 must be observed.
- Fittings and joint connectors must be additionally supported at the joints for the specified load specifications. Otherwise, the position of the joint is independent of the bracket position.
- The permissible load capacity is reduced by the "weight per meter" when the lids are used.
- Cable trays/ladders must generally not be walked on and must not be loaded laterally (e.g. by ladders laid).
- The support load of the bracket assuming an evenly distributed cable load and continuous beam is calculated as follows:
Support load F = (cable load + dead weight of the components) \times span. The dead weight of the components used in each case (cable trays/ladders, fittings, brackets, etc.) can be found in the tables. It is particularly important to note that the anchoring forces occurring due to the leverage effect are usually many times higher than the support loads themselves. The introduction of these forces into the structure as well as the type of anchoring must always be coordinated with the construction planning or construction management.
- To ensure safe handling, the use of suitable protective clothing is required for transport and processing.
- Slight deviations of the illustrations from the articles are possible. However, the function and the interaction are given.

This catalogue will give you an overview of our extensive product range in the field of cable support systems. We are also happy to assist you with words and deeds:

+49 (0) 2644/5606-0 info@niedax.de

Further information and contact details as well as an overview of all NIEDAX GROUP catalogues can be found under:

www.niedax.de/en/home/



INTERNATIONAL SALES AGENCIES



Australia

Niedax Australia Pty. Ltd.
Level 28, 1 Market Street
Sydney, NSW 2000
info@niedax.com.au . www.niedax.com.au

Brazil

MOPA Indústria e Comércio Ltda.
Juscelino Kubitschek de Oliveira Nr. 3410
CEP 07252-000 Guarulhos, São Paulo
Tel: +55 11 2413 1099
eletro@mopa.com.br . www.mopa.com.br

Chile

Chile Niedax Chile SpA
Américo Vespucio Norte 1385 - módulo 37
Quilicura, Santiago
Tel: +56 232 627656
cristian.robson@niedax.cl . www.niedax.cl

Estonia

Poweram Elektriseadmed OÜ
Akadeemia tee 33, 12618 Tallinn, Estonia
Tel: +372 672 6833 . Fax: +372 672 6831
info@poweram.ee . www.poweram.ee

Hungary

Niedax Kereskedelmi Kft.
Budafoki út 10.
H-2030 Érd
Tel: +36 23521300 . Fax: +36 23390489
info@niedax.hu . www.niedax.hu

Israel

Erco LTD
41 Hayozma St. P.O Box 12045
Ashdod 77000
Tel: +972 732 020 002 . Fax: +972 732 020 001
amir@erco.co.il . www.erco.co.il

Korea

Hansung System
RM # 301 Nexpill, 1301-2, Baekseok-Dong, Ilsan-dong-Gu, Goyang-Si, Kyunggi-Do, Korea, 410-817
Tel: +82 10 7310 3459
hantradg@naver.com . www.niedax-korea.com

Luxembourg

Minusines S.A.
B.P. 2212; 8, rue Hogenberg
L-1022 Luxembourg-Gasperich
Tel: +352 495858 . Fax: +352 495866
info@minusines.lu . www.minusines.lu

Norway/Sweden

BVS-Niedax Norge AS
Skårsletta 50
N-1473 Lørenskog
Tel: +47 64838989
info@niedax.no . www.niedax.no

Portugal

Niedax Portugal
Comércio de materiais eléctricos, unipessoal LDA.
Parque Industrial Meramar II, armazém 5, Avenida
de Santa Isabel, Cabra Figa, 2635 047 Rio de Mouro
Tel: +351 962808072 . geral@niedax.pt

Singapore

Niedax Asia Pacific Pte. Ltd.
4 Battery Road, Bank of China Building # 25-01
Singapore 049908
cynthia.lee@niedax.com.sg
www.niedax.com.sg

Spain

Niedax-Kleinhaus Ibérica S.L.U.
C/Iitalia 5 y 7
E-28971 Grinón (Madrid)
Tel: +34 918103197 . Fax: +34 918103889
niedax.iberica@niedax.com . www.niedax.es

USA

Niedax Inc.
2970 Charter Street
Columbus, OH 43228 USA
Tel: +1 6149218469 . Fax: +1 6149218676
sales@niedaxusa.com . www.niedaxusa.com

Austria

Niedax Kabelverlege-Systeme GmbH
Resselstraße 10
A-2120 Wolkersdorf
Tel: +43 2245901100 . ax: +43 22459011020
office@niedax.at . www.niedax.at

Brunei

Joffren Omar Company Sendirian Berhad
Head Office Seria Lot 49-51
Sg. Bera Light Industrial Area Seria
KB1933, Negara Brunei Darussalam
Tel: +673 3223 863 . Fax: +673 3223 309

China

Shanghai Huanye Electronics Co., Ltd.
Room 1616, North Building No.1839 Qixin Road
Shanghai, China, 201100
Tel: +86 21 54130175 803 . Fax: +86 21 34675929
sales@huanyechina.com . www.huanyechina.com

France

Niedax France
Parc d'Activités Washington
Av. de la ferme du Roy, FR-62404 Béthune Cedex
Tel: +33 321 64 75 75 . Fax: +33 321 64 75 76
info@niedax.fr . www.niedax.fr

India

Niedax Cable Management Systems Pvt. Ltd.
1007, Prestige Meridian I, 29 Mahatma Gandhi Road
Bangalore - 560 001
info@niedax.co.in . www.niedax.co.in

Italy

Femi-CZ S.p.A.
Viale del Lavoro, 16
45100 Rovigo
Tel: +39 0425 470711 . Fax: +39 0425 475445
femicz@femicz.it . www.femicz.it

Letiva

AS ERNERGOFIRMA JAUDA
Krustpils street 119
LV-1057 Riga, LATVIA
Tel: +37 67725789 . Fax: +37 67725770
info@jauda.com . www.jauda.com

Mexico

Niedax de Mexico S.A. de C.V.
Calle San Bernardo 9A
Colonia Sanctorum Cuautlancingo Puebla
Mexico C.P. 72730
Tel: +52.222.485.0586 & 485.0588
Fax: +52.222.485.0414 . salesmex@niedax.com

Pakistan

Industrial Supplies & Engineering Associates
PO BOX 8103 Baghbanpura Lahore-9,
P.O. Code: 54920
Tel: +92 344465812
isea_global@yahoo.com . isea.global1@gmail.com

Romania

Niedax Romania s.r.l.
Soseaua de Centura 2, Corp 4, Depozitul C2
RO-077175 Ștefanescu de Jos, Ilfov
Tel: +40 216680280 . Fax: +40 216680280
office@niedax.ro . www.niedax.ro

Slovak Republic

Niedax Slovakia s.r.o.
Pestovateľská 6
SK-82104 Bratislava
Tel: +421 244630934 . Fax: +421 244630935
niedax@niedax.sk . www.niedax.sk

Switzerland

Niedax EBO Schweiz AG
Wehreyering 21 Postfach
CH-3930 Visp
Tel: +41 279456868 . Fax: +41 279456869
info@niedax.ch . www.niedax.ch

Vietnam

Niedax Asia Pacific Pte. Ltd
Ho Chi Minh City
nam.dang@niedax.com

Belgium

Niedax-Kleinhaus N.V.
Tulpenstraat 2
B-9810 Eke/Nazareth
Tel: +32 92200790 . Fax: +32 92200791
info@niedax.be . www.niedax.be

Bulgaria

Niedax Bulgaria
Filip-Kutev-Str. 137
BG-1407 Sofia
Tel: +359 29624574 . Fax: +359 29624504
office@niedax.bg . www.niedax.bg

Czech Republic

Niedax-Kleinhaus s.r.o.
Palackeho 701
CZ-27746 Veltrusy
Tel: +42 0315781116 . Fax: +42 0315781118
office@niedax.cz . www.niedax.cz

GCC-States

Niedax Middle East FZE
P.O. Box 262461
FZS2AC08, Jebel Ali, UAE-Dubai
Tel: +971 4 880 7970 . Fax: +971 4 880 7972
ibrahima@ebo-systems.com . www.niedax-group.com

Ireland/UK

Niedax CMS Ltd.
Clash Industrial Estate
IRL-Tralee, Co. Kerry, Ireland
Tel: +353 667128701 . Fax: +353 667180301
matt@niedax.ie . www.niedax.ie

Kanada

Niedax Kanada
Bureau 216 du 3221 Autoroute 440 Ouest
Laval, Québec, H7P 5P2, Canada
Tel: +1 514 7091603
fmichel@niedax.ca

Lithuania

JSC „Swelbalt“
Sudmantu kaimas
92498 Klaipėdos rajonas
Tel: +370-46-300 100 . Fax: +370-46-300 101
info@swelbalt.lt . www.swelbalt.lt

Netherlands

Niedax-Kleinhaus B.V.
Bijsterhuizen 20-05A
NL-6604 LH Wijchen
Tel: +31 243788533 . Fax: +31 243788390
info@niedax.nl . www.niedax.nl

Poland

Niedax-Kleinhaus Polska Sp.zo.o.
ul. Zagórska 133
PL-42-680 Tarnowskie Góry
Tel: +48 323819810 . Fax: +48 323843956
info@niedax.pl . www.niedax.pl

Russia

Niedax LLC
Leningradsky Prospekt 76/4
125315 Moskau
Tel: +7 495 249 45 88
russia@niedax.ru . www.niedax-group.ru

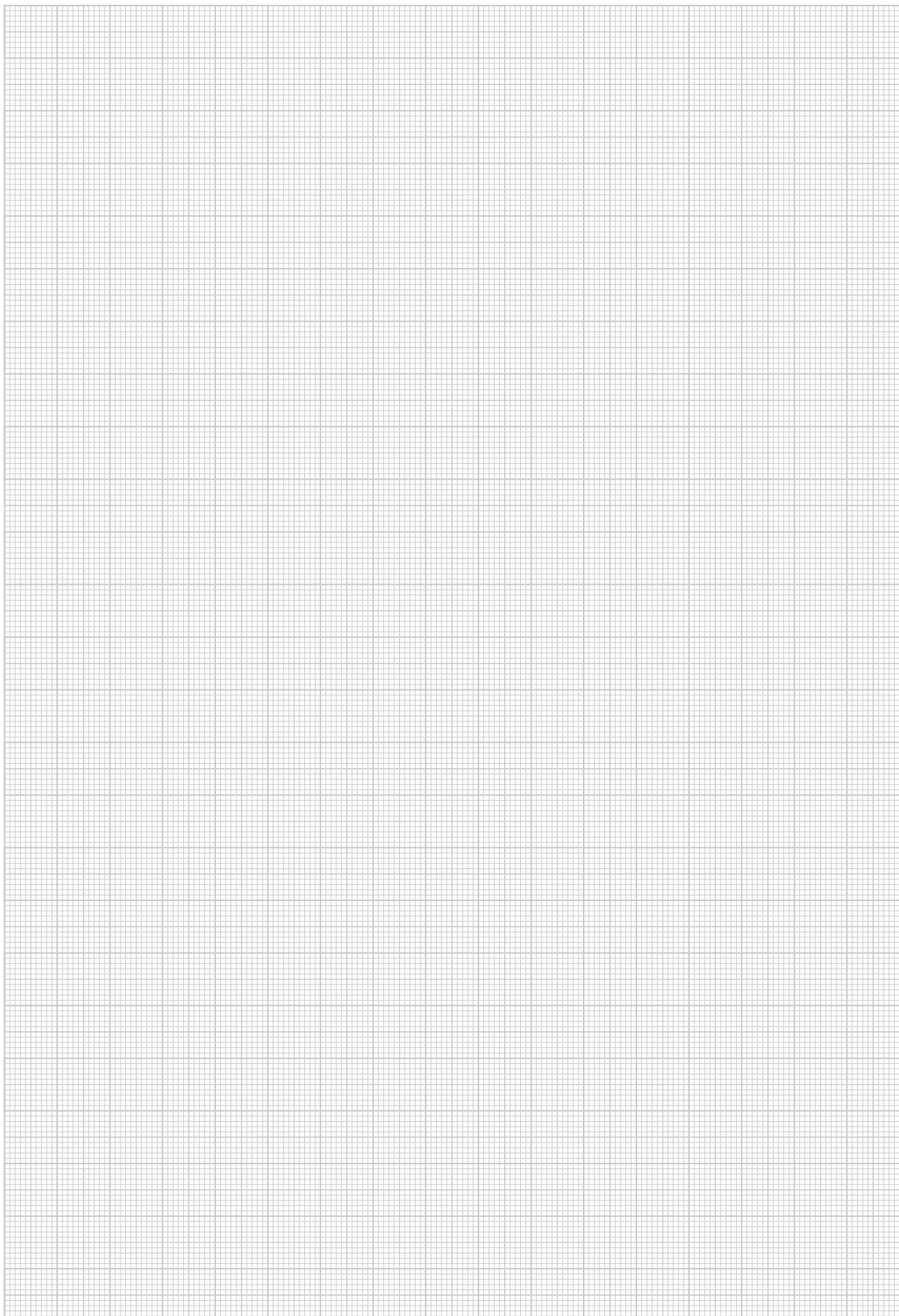
Slowenia

Kabeltrade d.o.o.
Latkova vas 83B, 3312 Prebold
Tel: +386 3 620 24 62
kabeltrade@kabeltrade.si
www.kabeltrade.si

Thailand

Niedax (Thailand) Ltd.
62/10 M6, T Samnaktorn, A. Ban Chang
Rayong 21130 Thailand
Tel: +66 (33) 679 899 . Fax: +66 (33) 679 891
info@niedax.co.th

NOTES



Alphabetical table of contents

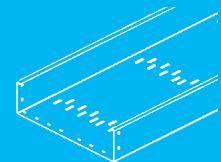
Type listing

Page 4-5

Page 6-13

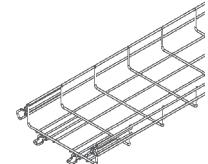
Walkable Cable Tray System

- Cable Trays
- Fittings
- Barrier Strips
- Covers
- Accessories



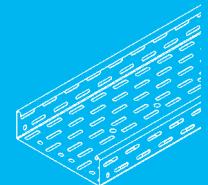
Wire Mesh Tray System

- Wire Mesh Trays
- Barrier Strips
- Covers
- Accessories



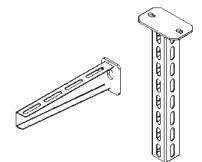
Cable Tray System

- Cable Trays
- Fittings
- Barrier Strips
- Covers
- Accessories



Support System

- Overhead Hangers
- Brackets
- Profiles
- Head Plates



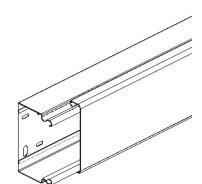
Vertical Cable Ladder

- System
- Vertical Cable Ladder
- U-clamps
- Accessories



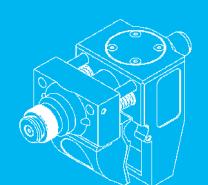
Cable Protection Duct

- Cable Protection Duct
- Fittings
- Accessories



Tools

- Base Frames
- Shear Plates
- Hydraulic Power Unit
- Table Trolley
- Notching Tools
- Sheet Metal Punch
- Step Drill
- Mesh Cable Tray Cutting Tool



General Information

- Type of Galvanisation
- Galvanising Processes
- Installation Informations
- Installation Instructions



TABLE OF CONTENTS IN ALPHABETICAL

A

Adjustable Elbow Bracket	112
Adjustable Splice / Reducer / Blind End	19, 26, 35, 78, 86, 93
Adjustable Splice Plate	59, 79, 86, 93
Anchor Fixing Plate incl. Bolts	108, 110, 119- 120
Angle Bracket	106
Angle Connector	112

B

Barrier Strip	18-19, 23-24, 32, 60, 76, 85, 90, 144, 153- 154
Barrier Strip Profile	24, 33
Barrier Strip, heavy duty	18, 23, 32
Base Frame Stop System, Type 1	168
Base Frame Stop System, Type 2	169
Base Frame, Type 1	168
Base Frame, Type 2	168
Beam Clamp	64, 111
Bearing	44
Blind End, with Cover Lock	26, 34
Boltless Splice Plate	74, 84, 140- 141, 143
Bottom Connection Plate	74, 84

C

Cable Drop Out for Wire Mesh Tray	61
Cable Protection Duct	140, 142-143
Cable Retainer Clamp	147, 156
Ceiling Nail	162
Ceiling Support	107, 109
Ceiling Support and Wall Bracket	106
Ceiling Support Profile	107, 109
Center Hanger for Threaded Rod	64
Center Support for Wire Mesh Tray	65
Clamping Piece	63
Collection Tray	170
Connector for fittings	59
Counter Pressure Trough for all U-clamps	130-132
Cover	152
Cover Clamp	38, 97
Cover for Cable Tray	36-37, 97
Cover for Elbow 45°	41, 97
Cover for Elbow 45°, antislip (DIN 51130 class R10)	42
Cover for Elbow 90°	42, 98
Cover for Elbow 90°, antislip (DIN 51130 class R10)	42-43
Cover for Flexible Horizontal Elbow	40
Cover for Flexible Horizontal Fitting, antislip (DIN 51130 class R10)	40
Cover for Horizontal Cross	98
Cover for Horizontal Extension Tee	41, 97
Cover for Horizontal Tee	43, 98
Cover for T-piece, antislip (DIN 51130 class R10)	43
Cover for Vertical Inside Elbow	99
Cover for Vertical Outside Elbow Kit	98-99
Cover for Wire Mesh Tray in Roof Shape	68
Cover Protection Strip	39
Covering Panel	47-48
C-profile 2970	121
C-profile 2986	45, 49, 121
C-profile 2988	122
C-profile 2996Z, toothed	122

D

Dilution (1.000 ml)	134
---------------------	-----

D

Distribution Cable Tray	84
Double Trough for all U-clamps	131

E

Edge Protection Plate	86, 96
Edge Protection Ring	75, 85, 153
Edge Protection Strip	50, 148, 157
Elbow 45°	25, 34, 77, 91
Elbow 45° with Cover	155
Elbow 90°	25, 34, 77, 92
Elbow 90° with Cover	155
Elbow 90°, adjustable	58
End-Cap	141, 147, 156
End-Protection Ring	141, 147-148, 156-157
Equipotential Bonding Wire	148-149, 157- 158
Extension for Wire Mesh Hanger	65
Extension Horizontal Elbow	77, 85, 91
Extension Horizontal Tee	25, 33, 77, 91

F

Fixing Clamp for Wire Mesh Tray	63
Fixing Plate for Wire Mesh Tray	62
Flat Plug 6,3 mm	149, 158
Flexible Horizontal Elbow 0-90°	33
Floor Clamp	46
Floor Mounting Bracket (height: 100 mm)	46
Floor Mounting Bracket (height: 120 mm)	46
Floor Mounting Bracket (height: 50 mm)	45
Floor Mounting Bracket (height: 80 mm)	46
Floor Stand	48
Floor Stand (height: 85 mm)	47
Floor Support	47-48

G

Gripping Sliding Nut	123
Ground Terminal	44, 67, 80, 86- 87, 96

H

Hammer Head Bolt, size M10	124
Hammer Head Bolt, size M12	124
Hammer Head Bolt, size M8	124
Heavy Duty Cable Tray	18, 22, 30-31, 75, 90
Heavy Duty Chequer Plate, aluminium, antislip (DIN 51130 class R10)	37
Heavy Duty Cover for Horizontal Extension Tee, antislip	41
Heavy Duty Cover, antislip (DIN 51130 class R10)	36-37
Heavy Duty Cover, antislip (DIN 51130 class R9)	36-37
Hexagon Head Bolt, acc. to DIN EN ISO 4017	101, 133
Hook Head Bolt, size M10	124
Hook Head Bolt, size M12	125
Hook Head Bolt, size M16	125
Horizontal Cross	78, 92
Horizontal Tee	25, 34, 78, 92, 146
Hydraulic Hand Pump	172
Hydraulic Power Unit, electric	169
Hydraulic Pump, manual	169

I

I-Beam Clamping Assembly	111
Industrial Cable Tray	74
Industrial Duct	152
Inside Elbow 45°	145, 155
Inside Elbow 90°	146, 155



J

J-Hook Bolt	67
-------------	----

L

Large Diameter Washer, acc. to DIN EN ISO 7093-1	49, 100, 133
Lifter for Covers	38, 143, 153

M

Mesh Cable Tray Cutting Tool Set	172
Mounting Bracket for Wire Mesh Tray	62, 65
Mounting Brackets	62
Mounting Clamp for Barrier Strip	61
Mounting Plate	61, 95
Mounting Plate for Barrier Strip	24, 33, 76, 91, 143-144, 154
Mushroom Head Bolt acc. to DIN 603	100, 132
Mushroom Head Bolt, similar to DIN 603	45, 49, 67, 100, 132-133

N

Nail Anchor	161
Neoprene Adhesive Tape, black	40
Notching Tools	171

O

Outside Elbow 45°	144, 154
Outside Elbow 90°	145, 155
Overhead Hanger for Wire Mesh Tray	66
Pan Head Screw with hexagonal socket T30 similar to DIN EN ISO 7380-2	49
Pan Head Self Drilling Screws with hexagonal socket T20 similar to DIN EN ISO 15481	50
Profile U 5050	108
Profile U 6040	110
Protective End Cap	60, 106, 108, 110, 118, 120, 122-123

R

Reducer / Blind End	19, 26, 35, 78, 85, 92
Retaining Bracket for Wire Mesh Tray Cover	68
Retaining Clip Covering Sheet	47
Rungs for Vertical Cable Ladders	118, 120

S

Screw Anchor	161
Shear Plate, Type 1	168
Shear Plates, Type 2	169
Sheet Metal Punch	171
Sliding Nut	123
Sloped Sliding Nut	123
Slotted Pan Head Bolt, acc. to DIN EN 1580	132
Slotted Pan Head Bolt, M6, acc. to DIN EN ISO 1580	67
Splice / Link Kit	79, 93
Splice Plate for Barrier Strip	60, 85
Splice Plate, in one piece	75, 90
Standard Hanger for Wire Mesh Tray	66
Step Drill for Covers	171
Straight Splice Plate	108, 110, 119-120
Structural Anchor	162

T

Table Trolley	170
T-Connector	45

T

Threaded Rod, M10	64
Threaded Rod, M6	64, 112
Threaded Rod, M8	64, 112
Trapeze Hanger for Wire Mesh Tray	65
Turnbolt Lock	38, 44, 99
Two Hole Angle	119, 121

U

U-Clamp	125-130
Universal Mounting Bracket	76
Universal Splice Plate	18, 23, 31, 59, 76, 153

V

Vertical Cable Ladders	118-119
Vertical Elbow 45°	145
Vertical Elbow 90°	146
Vertical Inside Elbow 45°	93
Vertical Inside Elbow 90°	79, 94
Vertical Outside Elbow 45°	94
Vertical Outside Elbow 90°	79, 94
Vertical Tee Down, crosswise	80, 95
Vertical Tee Down, lengthwise	80, 95

W

Wall and Bracket Mounting of Wire Mesh Tray	62
Wire Mesh Mounting Bracket, single-piece	61
Wire Mesh Tray	56-58
Wire Mesh Tray Ground Terminal	66
Wire Mesh Tray Support Bracket	49

Z

Zinc Powder Paint (1.000 ml)	134
Zinc Spray (400 ml)	134

LIST OF ITEMS

model no.	EAN code	page	model no.	EAN code	page	model no.	EAN code	page
2970/100-2 SL	037841	121	BK 30	084807	127	BUK 46/2	098705	130
2970/100-3 SL	037407	121	BK 30/2	086702	127	BUK 50	096909	129
2970/200-2 SL	037308	121	BK 34	084906	127	BUK 50/2	098804	130
2970/300-2 SL	037605	121	BK 34/2	086801	127	BUK 54	097005	129
2970/400-2 SL	037209	121	BK 38	085002	127	BUK 58	097104	129
2970/500-2 SL	037704	121	BK 38/2	086900	127	BUK 64	097203	129
2986/100 E3L	900060	45	BK 42	085101	127	BUK 70	097302	129
2986/100 E3L	900060	45	BK 42/2	087006	127	BUK 76	097401	129
2986/100 E3L	900060	49	BK 46	085200	127	BUK 82	097500	129
2986/100 E3L	900060	49	BK 46/2	087105	127	BUK 90	097609	129
2986/100 SL	894680	49	BK 50	085309	127	DAM 6X10	117666	162
2986/2 E3L	003310	45	BK 50/2	087204	127	DAM 6X5	158126	162
2986/2 SL	899722	45	BK 54	085408	127	DAZ 10X10	842827	162
2986/2 SL	899722	121	BK 58	085507	127	DAZ 12X10	842865	162
2986/200 SL	894703	49	BK 64	085606	127	DAZ 8X10	842803	162
2986/3 SL	193158	121	BK 70	085705	127	DH 55	417483	143
2986/300 SL	894727	49	BK 76	085804	127	DH 55	417483	153
2986/400 SL	894741	49	BK 82	085903	127	DHBKS 170 S	158645	38
2986/500 SL	894765	49	BK 90	086009	127	DSLU 100-0.75 S	179954	39
2986/6 SL	032259	121	BU 100	066605	128	DSLU 200-0.75 S	179961	39
2986/600 SL	894772	49	BU 110	066704	128	DSLU 300-0.75 S	179978	39
2988/2 FL	044955	122	BU 12	064601	128	DSLU 400-0.75 S	179985	39
2988/6 FL	045013	122	BU 12/2	066803	128	DSLU 500-0.75 S	181131	39
2996Z/3 FL	960675	122	BU 12/3	068005	129	DSLU 600-0.75 S	179992	39
2996Z/4500 FL	003594	122	BU 14	064700	128	DLSY 3.0/100 S	133611	39
2996Z/6 FL	960699	122	BU 14/2	066902	128	DLSY 3.0/200 S	133628	39
AWG 110/140	891801	112	BU 14/3	068104	129	DLSY 3.0/300 S	133635	39
B 100	049301	125	BU 16	064908	128	DLSY 3.0/400 S	133642	39
B 110	049400	125	BU 16/2	067008	128	DLSY 3.0/500 S	133659	39
B 12	047406	125	BU 16/3	068203	129	DLSY 3.0/600 S	133666	39
B 12/2	049509	126	BU 18	065004	128	DLSY 3.0/810 S	133673	39
B 12/3	050703	126	BU 18/2	067107	128	DLSZ 2.5/100 S	102853	39
B 14	047505	125	BU 18/3	068302	129	DLSZ 2.5/200 S	102846	39
B 14/2	049608	126	BU 20/3	068401	129	DLSZ 2.5/300 S	114139	39
B 14/3	050802	126	BU 22	065103	128	DLSZ 2.5/400 S	102839	39
B 16	047604	125	BU 22/2	067206	128	DLSZ 2.5/500 S	131488	39
B 16/2	049707	126	BU 22/3	068500	129	DLSZ 2.5/600 S	102822	39
B 16/3	050901	126	BU 24/3	068609	129	DLSZ 2.5/805 S	131495	39
B 18	047703	125	BU 26	065202	128	DW 12	111909	131
B 18/2	049806	126	BU 26/2	067305	128	DW 14	112005	131
B 18/3	051007	126	BU 26/3	068708	129	DW 16	112104	131
B 20/3	051106	126	BU 28/3	068807	129	DW 18	112203	131
B 22	047802	125	BU 30	065301	128	DW 20	112302	131
B 22/2	049905	126	BU 30/2	067404	128	DW 22	112401	131
B 22/3	051205	126	BU 30/3	068906	129	DW 26	112609	131
B 24/3	051304	126	BU 34	065400	128	DW 30	112807	131
B 26	047901	125	BU 34/2	067503	128	DW 34	112906	131
B 26/2	050000	126	BU 38	065509	128	DW 38	113002	131
B 26/3	051403	126	BU 38/2	067602	128	DW 42	113101	131
B 28/3	051502	126	BU 42	065608	128	DW 46	113200	131
B 30	048007	125	BU 42/2	067701	128	DW 50	113309	131
B 30/2	050109	126	BU 46	065707	128	FK 6X12	207053	132
B 30/3	051601	126	BU 46/2	067800	128	FLDM 6X45	207060	100
B 34	048106	125	BU 50	065806	128	FLDM 6X45	207060	132
B 34/2	050208	126	BU 50/2	067909	128	FLDM 6X45 E3	343829	100
B 38	048205	125	BU 54	065905	128	FLDM 6X45 E3	343829	132
B 38/2	050307	126	BU 58	066001	128	FLDM 6X60 V	064748	100
B 4.2X13-TX V	132614	50	BU 64	066100	128	FLDM 6X60 V	064748	132
B 42	048304	125	BU 70	066209	128	FLDM 8X45 E3	343867	100
B 42/2	050406	126	BU 76	066308	128	FLDM 8X45 E3	343867	132
B 46	048403	125	BU 82	066407	128	FLM 10X25 F	206902	100
B 46/2	050505	126	BU 90	066506	128	FLM 10X25 F	206902	132
B 50	048502	125	BUK 100	097708	129	FLM 12X30 F	207008	100
B 50/2	050604	126	BUK 110	097807	129	FLM 12X30 F	207008	132
B 54	048601	125	BUK 14	096008	129	FLM 6X12	206209	49
B 58	048700	125	BUK 14/2	097906	130	FLM 6X12	206209	100
B 64	048809	125	BUK 18	096107	129	FLM 6X12	206209	132
B 70	048908	125	BUK 18/2	098002	130	FLM 6X12 E3	343805	49
B 76	049004	125	BUK 22	096206	129	FLM 6X12 E3	343805	100
B 82	049103	125	BUK 22/2	098101	130	FLM 6X12 E3	343805	132
B 90	049202	125	BUK 26	096305	129	FLM 6X12 E3	343805	49
BK 100	086108	127	BUK 26/2	098200	130	FLM 6X12 E3	343805	100
BK 110	086207	127	BUK 30	096404	129	FLM 6X12 E3	343805	132
BK 14	084401	127	BUK 30/2	098309	130	FLM 6X12 F	206407	100
BK 14/2	086306	127	BUK 34	096503	129	FLM 6X12 F	206407	132
BK 18	084500	127	BUK 34/2	098408	130	FLM 6X16 F	206506	49
BK 18/2	086405	127	BUK 38	096602	129	FLM 6X16 F	206506	100
BK 22	084609	127	BUK 38/2	098507	130	FLM 6X16 F	206506	132
BK 22/2	086504	127	BUK 42	096701	129	FLM 6X16 F	206506	49
BK 26	084708	127	BUK 42/2	098606	130	FLM 6X16 F	206506	100
BK 26/2	086603	127	BUK 46	096800	129	FLM 6X16 F	206506	132



model no.	EAN code	page	model no.	EAN code	page	model no.	EAN code	page
FLM 6X20 E4	101825	67	GSF 0406	119608	123	HK 510/20	123704	124
FLM 6X20 FG	057931	67	GSL 150	461608	148	HK 510/30	123803	124
FLM 6X20 G	057948	67	GSL 150	461608	157	HK 512/20	124107	125
FLM 8X13 F	206605	100	GSLH 200	461707	149	HK 512/30	124206	125
FLM 8X13 F	206605	132	GSLH 200	461707	158	HK 512/50	124305	125
FLM 8X16 F	206704	45	GSLH 350	461745	149	HK 516/30	124404	125
FLM 8X16 F	206704	67	GSLH 350	461745	158	HK 516/50	124503	125
FLM 8X16 F	206704	100	GSLS 63	461301	149	HKVB 85-110 E2	149414	47
FLM 8X16 F	206704	132	GSLS 63	461301	158	HM 408/20	122806	124
FLM 8X16 F	206704	45	GTAB 8 E3	136629	65	HM 408/30	122905	124
FLM 8X16 F	206704	67	GTAB 8 E4	136636	65	HM 408/40	123001	124
FLM 8X16 F	206704	100	GTAB 8 F	136643	65	HM 408/50	123100	124
FLM 8X16 F	206704	132	GTAB 8 S	057924	65	HM 410/30	123209	124
FLM 8X25 F	206803	100	GTCB 50/100 E3	136650	65	HM 410/40	123308	124
FLM 8X25 F	206803	132	GTCB 50/100 F	136667	65	HM 410/50	123407	124
FLMU 6X20 F	064779	100	GTCB 50/100 S	136674	65	HMZ M10/30 F	176779	124
FLMU 6X20 F	064779	133	GTEKM 6X25	058068	66	HMZ M10/60 F	176762	124
GMZ M10 F	947423	123	GTKA 50 E3	116720	61	HMZ M10/80 F	176755	124
GMZ M12 F	947430	123	GTKA 50 E4	136858	61	HMZ M12/30 F	176748	124
GMZ M6 F	947409	123	GTKA 50 F	136865	61	HMZ M12/60 F	176731	124
GMZ M8 F	947416	123	GTKA 50 S	967483	61	HMZ M12/80 F	176724	124
GMZF M10-18 F	055661	123	GTMB 65 E3	058181	62	HU 5050/1000	858880	107
GMZF M10-22 F	055517	123	GTMB 65 E4	079445	62	HU 5050/1100	858903	107
GMZF M12-18 F	055678	123	GTMB 65 FG	058198	62	HU 5050/1200	858927	107
GMZF M12-22 F	055524	123	GTMB 65 S	058211	62	HU 5050/1500	858941	107
GMZF M6-18 F	055647	123	GTWAB 50 E3	058976	62	HU 5050/200	858705	107
GMZF M6-22 F	055487	123	GTWAB 50 E4	018642	62	HU 5050/2000	858965	107
GMZF M8-18 F	055654	123	GTWAB 50 FG	058983	62	HU 5050/250	858729	107
GMZF M8-22 F	055494	123	GTWAB 50 S	058990	62	HU 5050/300	858743	107
GRBP 6 E3	936960	62	GW 100	107308	130	HU 5050/400	858767	107
GRBP 6 E5	127726	62	GW 110	107407	130	HU 5050/500	858781	107
GRBP 6 F	966257	62	GW 12	105403	130	HU 5050/600	858804	107
GRBP 6 S	936953	62	GW 14	105502	130	HU 5050/700	858828	107
GRDHL 30 E3	092857	68	GW 16	105601	130	HU 5050/800	858842	107
GRDHL 30 F	075676	68	GW 18	105700	130	HU 5050/900	858866	107
GRDHL 30 S	126996	68	GW 22	105809	130	HU 6040/1000	891542	109
GRGV 50	940561	59	GW 26	105908	130	HU 6040/1100	891559	109
GRGV 50 E3	940578	59	GW 30	106004	130	HU 6040/1200	891566	109
GRGV 50 F	940585	59	GW 34	106103	130	HU 6040/1500	891573	109
GRHB 30/150 F	895168	65	GW 38	106202	130	HU 6040/200	891450	109
GRHKM 6X15 E3	012428	59	GW 42	106301	130	HU 6040/2000	891580	109
GRHKM 6X15 F	012435	59	GW 46	106400	130	HU 6040/250	891467	109
GRHKM 6X15 V	012442	59	GW 50	106509	130	HU 6040/300	891474	109
GRHS 30/1000 F	909605	66	GW 54	106608	130	HU 6040/400	891481	109
GRHS 30/150 F	909421	66	GW 58	106707	130	HU 6040/500	891498	109
GRHS 30/200 F	909445	66	GW 64	106806	130	HU 6040/600	891504	109
GRHS 30/300 F	909469	66	GW 70	106905	130	HU 6040/700	891511	109
GRHS 30/400 F	909483	66	GW 76	107001	130	HU 6040/800	891528	109
GRHS 30/500 F	909506	66	GW 82	107100	130	HU 6040/900	891535	109
GRHS 30/600 F	909520	66	GW 90	107209	130	KA 100-600	347056	106
GRHS 30/700 F	909544	66	GWS 14	107414	132	KI 80	192908	120
GRHS 30/800 F	909568	66	GWS 16	107421	132	KIQ 80	903009	120
GRHS 30/900 F	909582	66	GWS 18	107438	132	KSR 20 A	946761	153
GRHW 30/40	939367	49	GWS 22	107445	132	KSR 30 A	946778	75
GRHW 30/40 E3	939374	49	GWS 26	107452	132	KSR 30 A	946778	153
GRK 25	280902	63	GWS 30	107469	132	KSR 30 A	946778	75
GRKB 10	280704	64	GWS 34	107476	132	KSR 30 A	946778	153
GRKB 10 F	280759	64	GWS 38	107483	132	KSR 40 A	946785	85
GRKH 153 F	000098	63	GWU 100	111701	131	KTA 100	186907	106
GRKH 187 F	000111	63	GWU 110	111800	131	KTA 150	187003	106
GRKHKV 173 E3	166374	63	GWU 12	109609	131	KTA 200	187102	106
GRKHKV 173 S	166381	63	GWU 14	109708	131	KTA 250	187201	106
GRKV 132 F	000081	63	GWU 16	110001	131	KTA 300	187300	106
GRKV 166 F	000074	63	GWU 18	110100	131	KTA 350	187409	106
GRMB 50	864904	62	GWU 22	110209	131	KTA 400	187508	106
GRMB 50 E3	912018	62	GWU 26	110308	131	KTA 450	187607	106
GRSH 30 F	895199	66	GWU 30	110407	131	KTA 500	187706	106
GRSM 6 E3	343799	67	GWU 34	110506	131	KTA 550	187805	106
GRSM 6 F	940554	67	GWU 38	110605	131	KTA 600	187904	106
GRSM 6 V	280506	67	GWU 42	110704	131	KU 5050	191956	108
GRTS 30/3 F	895182	65	GWU 46	110803	131	KU 6040	891771	110
GRV 6	280209	59	GWU 50	110902	131	KU 6040	891771	119
GRV 6 E3	802104	59	GWU 54	111008	131	LD 100	508600	152
GRV 6 E5	127733	59	GWU 58	111107	131	LD 150	508808	152
GRV 6 F	280186	59	GWU 64	111206	131	LD 200	508907	152
GRVC 14	280308	61	GWU 70	111305	131	LD 300	889808	152
GRVC 14 E3	841509	61	GWU 76	111404	131	LD 60	508501	152
GRVC 14 E5	141876	61	GWU 82	111503	131	LEAB 60.060	534807	154
GRVC 14 F	280339	61	GWU 90	111602	131	LEAB 60.100	534906	154
GRWGK 10 E3	931057	61	HDS 50.50 F	931705	107	LEAB 60.150	535002	154
GRWGK 10 S	280797	61	HDS 60.40 F	931729	109	LEAB 60.200	535101	154

LIST OF ITEMS

model no.	EAN code	page	model no.	EAN code	page	model no.	EAN code	page
LEAC 60.060	533602	155	LLK 40.060	509003	142	LUWC 60.200	513604	146
LEAC 60.100	533701	155	LLK 60.060	509102	142	LUWC 80.080	791101	146
LEAC 60.150	533800	155	LLK 60.100	509201	142	LZTP 100	833009	144
LEAC 60.200	533909	155	LLK 60.150	509300	142	LZTP 100	833009	154
LED 100.100	792559	147	LLK 60.200	509409	142	LZTP 150	833054	144
LED 16.016	517725	141	LLK 80.080	789702	142	LZTP 150	833054	154
LED 16.030	517732	141	LST 100	516667	143	LZTP 200	833108	144
LED 26.030	517749	141	LST 16.016	516209	140	LZTP 200	833108	154
LED 40.040	517763	147	LST 16.030	516308	140	M 10/1000	203208	64
LED 40.060	517800	147	LST 26.030	516407	140	M 10/1000 E3	769902	64
LED 60.060	517909	147	LST 40	516506	143	M 6/1000	919420	64
LED 60.060	517909	156	LST 60	516605	143	M 6/1000	919420	112
LED 60.060	517909	147	LST 80	516643	143	M 6/1000 E3	107544	64
LED 60.060	517909	156	LSTA 16.016	516704	141	M 6/1000 E3	107544	112
LED 60.100	518005	147	LSTA 16.030	516803	141	M 8/1000	203505	64
LED 60.100	518005	156	LSTA 26.030	516902	141	M 8/1000	203505	112
LED 60.100	518005	147	LUAB 100.100	790753	144	M 8/1000 E3	107568	64
LED 60.100	518005	156	LUAB 40.040	790609	144	M 8/1000 E3	107568	112
LED 60.150	518104	147	LUAB 40.060	512706	144	MTC 105.100 E3	713233	58
LED 60.150	518104	156	LUAB 60.060	512805	144	MTC 105.100 E4	714155	58
LED 60.150	518104	147	LUAB 60.100	512904	144	MTC 105.100 F	712151	58
LED 60.150	518104	156	LUAB 60.150	513000	144	MTC 105.100 V	711352	58
LED 60.200	518203	147	LUAB 60.200	513109	144	MTC 105.150 E3	713264	58
LED 60.200	518203	156	LUAB 80.080	790708	144	MTC 105.150 E4	714162	58
LED 60.200	518203	147	LUAC 100.100	791958	145	MTC 105.150 F	712168	58
LED 60.200	518203	156	LUAC 40.040	791804	145	MTC 105.150 V	711369	58
LED 60.300 S	075287	147	LUAC 40.060	514205	145	MTC 105.200 E3	713288	58
LED 80.080	792504	147	LUAC 60.060	514304	145	MTC 105.200 E4	714179	58
LEIB 60.060	534401	155	LUAC 60.100	514403	145	MTC 105.200 F	712175	58
LEIB 60.100	534500	155	LUAC 60.150	514502	145	MTC 105.200 V	711376	58
LEIB 60.150	534609	155	LUAC 60.200	514601	145	MTC 105.300 E3	713318	58
LEIB 60.200	534708	155	LUAC 80.080	791903	145	MTC 105.300 E4	714186	58
LEIC 60.060	533206	155	LUE 60.060	532728	152	MTC 105.300 F	712182	58
LEIC 60.100	533305	155	LUE 60.100	532742	152	MTC 105.300 V	711383	58
LEIC 60.150	533404	155	LUE 60.150	532766	152	MTC 105.400 E3	713325	58
LEIC 60.200	533503	155	LUE 60.200	532780	152	MTC 105.400 E4	714193	58
LER 100.100	887750	147	LUIB 100.100	790357	145	MTC 105.400 F	712199	58
LER 16.016	887606	141	LUIB 40.040	790203	145	MTC 105.400 V	711390	58
LER 16.030	887637	141	LUIB 40.060	512201	145	MTC 105.500 E3	713332	58
LER 26.030	887668	141	LUIB 60.060	512300	145	MTC 105.500 E4	714216	58
LER 40.040	865109	147	LUIB 60.100	512409	145	MTC 105.500 F	712212	58
LER 40.060	865154	147	LUIB 60.150	512508	145	MTC 105.500 V	711413	58
LER 60.060	865208	147	LUIB 60.200	512607	145	MTC 105.600 E3	713349	58
LER 60.060	865208	156	LUIB 80.080	790302	145	MTC 105.600 E4	714223	58
LER 60.060	865208	147	LUIC 100.100	791552	146	MTC 105.600 F	712229	58
LER 60.060	865208	156	LUIC 40.040	791408	146	MTC 105.600 V	711420	58
LER 60.100	865253	147	LUIC 40.060	513703	146	MTC 30.050 E3	713011	56
LER 60.100	865253	156	LUIC 60.060	513802	146	MTC 30.050 E4	714018	56
LER 60.100	865253	147	LUIC 60.100	513901	146	MTC 30.050 F	712014	56
LER 60.100	865253	156	LUIC 60.150	514007	146	MTC 30.050 V	711215	56
LER 80.080	887705	147	LUIC 60.200	514106	146	MTC 30.100 E3	713028	56
LES 60.150	518258	148	LUIC 80.080	791507	146	MTC 30.100 E4	714025	56
LES 60.150	518258	157	LUK 100.100	508945	143	MTC 30.100 F	712021	56
LES 60.200	518265	148	LUK 40.040	508921	143	MTC 30.100 V	711222	56
LES 60.200	518265	157	LUK 40.060	700004	143	MTC 30.150 E3	713035	56
LEWB 60.060	534005	155	LUK 60.060	700103	143	MTC 30.150 E4	714032	56
LEWB 60.100	534104	155	LUK 60.100	700202	143	MTC 30.150 F	712038	56
LEWB 60.150	534203	155	LUK 60.150	700301	143	MTC 30.150 V	711239	56
LEWB 60.200	534302	155	LUK 60.200	700400	143	MTC 30.200 E3	713059	56
LEWC 60.060	532803	155	LUK 80.080	508938	143	MTC 30.200 E4	714049	56
LEWC 60.100	532902	155	LUTC 100.100	799855	146	MTC 30.200 F	712045	56
LEWC 60.150	533008	155	LUTC 40.060	514700	146	MTC 30.200 V	711246	56
LEWC 60.200	533107	155	LUTC 60.060	514809	146	MTC 30.300 E3	713066	56
LFM 6X16-TX V	132607	49	LUTC 60.100	514908	146	MTC 30.300 E4	714056	56
LHS 60.100 E2	517206	147	LUTC 60.150	515004	146	MTC 30.300 F	712052	56
LHS 60.100 E2	517206	156	LUTC 60.200	515103	146	MTC 30.300 V	711253	56
LHS 60.150 E2	517305	147	LUTC 80.080	799800	146	MTC 54.050 E3	713073	57
LHS 60.150 E2	517305	156	LUWB 100.100	789955	145	MTC 54.050 E4	714063	57
LHS 60.200 E2	517404	147	LUWB 40.040	511648	145	MTC 54.050 F	712069	57
LHS 60.200 E2	517404	156	LUWB 40.060	511709	145	MTC 54.050 V	711260	57
LI 60.060	531905	152	LUWB 60.060	511808	145	MTC 54.100 E3	713080	57
LI 60.100	532001	152	LUWB 60.100	511907	145	MTC 54.100 E4	714070	57
LI 60.150	532100	152	LUWB 60.150	512003	145	MTC 54.100 F	712076	57
LI 60.200	532209	152	LUWB 60.200	512102	145	MTC 54.100 V	711277	57
LI 60.300	532254	152	LUWB 80.080	789900	145	MTC 54.150 E3	713097	57
LIV 60	532704	153	LUWC 100.100	791156	146	MTC 54.150 E4	714087	57
LLK 100.100	789757	142	LUWC 40.040	791002	146	MTC 54.150 F	712083	57
LLK 16.016	506705	140	LUWC 40.060	513208	146	MTC 54.150 V	711284	57
LLK 16.030	506804	140	LUWC 60.060	513307	146	MTC 54.200 E3	713110	57
LLK 26.030	506903	140	LUWC 60.100	513406	146	MTC 54.200 E4	714094	57
LLK 40.040	508976	142	LUWC 60.150	513505	146	MTC 54.200 F	712090	57



model no.	EAN code	page	model no.	EAN code	page	model no.	EAN code	page
MTC 54.200 V	711291	57	NKB 8X2	872091	40	RBA 110.100	251209	91
MTC 54.300 E3	713134	57	NSA 5X40/SK-T20 V	153886	161	RBA 110.200	251308	91
MTC 54.300 E4	714117	57	NSA 6X35/FKK-T30 V	153893	161	RBA 110.300	251407	91
MTC 54.300 F	712113	57	NSA 6X50/FKK-T30 V	153374	161	RBA 110.400	251506	91
MTC 54.300 V	711314	57	NSA 6X55/SW10-M6 V	153916	161	RBA 110.500	251605	91
MTC 54.400 E3	713165	57	NSA 7.5X40/FKG-T30 V	153923	161	RBA 110.600	947478	91
MTC 54.400 E4	714124	57	NSA 7.5X50/FKG-T30 V	153930	161	RBA 60.100	225200	77
MTC 54.400 F	712120	57	PKS M6/10-40 F	133871	64	RBA 60.200	225408	77
MTC 54.400 V	711321	57	PKS M6/10-40 F	133871	111	RBA 60.300	225606	77
MTC 54.500 E3	713189	57	PKS M8/10-40 E3	126866	64	RBA 60.400	225705	77
MTC 54.500 E4	714131	57	PKS M8/10-40 E3	126866	111	RBA 60.500	225804	77
MTC 54.500 F	712137	57	PKS M8/10-40 E5	126873	64	RBA 60.600	225903	77
MTC 54.500 V	711338	57	PKS M8/10-40 E5	126873	111	RBADV 100	275106	97
MTC 54.600 E3	713219	57	PKS M8/10-40 F	077571	64	RBADV 200	275304	97
MTC 54.600 E4	714148	57	PKS M8/10-40 F	077571	111	RBADV 300	275502	97
MTC 54.600 F	712144	57	RA 100.200 S	132485	26	RBADV 400	275601	97
MTC 54.600 V	711345	57	RA 100.400 S	132492	26	RBADV 500	275700	97
MTCA 4 E3	713615	59	RA 100.500 S	132508	26	RBADV 600	275908	97
MTCA 5 E3	713622	59	RA 100.600 S	132515	26	RBADVRS 100-2.0 S	133215	42
MTCA 6 E3	713639	59	RA 110.050	764105	92	RBADVRS 200-2.0 S	133222	42
MTCC 100/7.5° E3	155071	68	RA 110.200	764402	35	RBADVRS 300-2.0 S	133239	42
MTCC 100/7.5° E4	159666	68	RA 110.200	764402	92	RBADVRS 400-2.0 S	133246	42
MTCC 100/7.5° F	154692	68	RA 110.200	764402	35	RBADVRS 500-2.0 S	133253	42
MTCC 100/7.5° S	154654	68	RA 110.200	764402	92	RBADVRS 600-2.0 S	133260	42
MTCC 150/7.5° E3	155088	68	RA 110.400	764808	35	RBADVS 100	863105	41
MTCC 150/7.5° E4	159673	68	RA 110.400	764808	92	RBADVS 200	863129	41
MTCC 150/7.5° F	155019	68	RA 110.400	764808	35	RBADVS 300	863143	41
MTCC 150/7.5° S	154999	68	RA 110.400	764808	92	RBADVS 400	863167	41
MTCC 200/7.5° E3	155095	68	RA 110.500	764907	35	RBADVS 500	863174	41
MTCC 200/7.5° E4	159680	68	RA 110.500	764907	92	RBADVS 600	863198	41
MTCC 200/7.5° F	154715	68	RA 110.500	764907	35	RBADVSRS 100	863303	42
MTCC 200/7.5° S	154661	68	RA 110.500	764907	92	RBADVSRS 200	863327	42
MTCC 300/7.5° E3	155118	68	RA 110.600	858606	35	RBADVSRS 300	863341	42
MTCC 300/7.5° E4	159697	68	RA 110.600	858606	92	RBADVSRS 400	863365	42
MTCC 300/7.5° F	154722	68	RA 110.600	858606	35	RBADVSRS 500	863372	42
MTCC 300/7.5° S	154678	68	RA 110.600	858606	92	RBADVSRS 600	863396	42
MTCC 400/7.5° E3	155125	68	RA 60.050	763108	78	RBAS 100.100 S	129584	25
MTCC 400/7.5° E4	159710	68	RA 60.200	763405	19	RBAS 100.200 S	129591	25
MTCC 400/7.5° F	154739	68	RA 60.200	763405	78	RBAS 100.300 S	129614	25
MTCC 400/7.5° S	154685	68	RA 60.200	763405	19	RBAS 100.400 S	129621	25
MTCC 50/7.5° E3	155064	68	RA 60.200	763405	78	RBAS 100.500 S	129638	25
MTCC 50/7.5° E4	159727	68	RA 60.400	763801	19	RBAS 100.600 S	129645	25
MTCC 50/7.5° F	154982	68	RA 60.400	763801	78	RBAS 110.100	862504	34
MTCC 50/7.5° S	154975	68	RA 60.400	763801	19	RBAS 110.200	862528	34
MTCC 500/7.5° E3	155132	68	RA 60.400	763801	78	RBAS 110.300	862542	34
MTCC 500/7.5° E4	159734	68	RA 60.500	763900	19	RBAS 110.400	862566	34
MTCC 500/7.5° F	155040	68	RA 60.500	763900	78	RBAS 110.500	862573	34
MTCC 500/7.5° S	155026	68	RA 60.500	763900	19	RBAS 110.600	862597	34
MTCC 600/7.5° E3	155149	68	RA 60.500	763900	78	RBAVDS 100	924165	40
MTCC 600/7.5° E4	159741	68	RA 60.600	764006	19	RBAVDS 200	924189	40
MTCC 600/7.5° F	155057	68	RA 60.600	764006	78	RBAVDS 300	924202	40
MTCC 600/7.5° S	155033	68	RA 60.600	764006	19	RBAVDS 400	924226	40
MTCE 54.100 E3	713424	58	RA 60.600	764006	78	RBAVDS 500	924240	40
MTCE 54.100 E4	714315	58	RA 85.200	243341	85	RBAVDS 600	924264	40
MTCE 54.100 F	712311	58	RA 85.400	243365	85	RBAVDSRS 100	925322	40
MTCE 54.100 V	711512	58	RA 85.500	243372	85	RBAVDSRS 200	925346	40
MTCE 54.150 E3	713431	58	RA 85.600	243389	85	RBAVDSRS 300	925360	40
MTCE 54.150 E4	714322	58	RADS 100.100 S	171118	26	RBAVDSRS 400	925384	40
MTCE 54.150 F	712335	58	RADS 100.200 S	171125	26	RBAVDSRS 500	925407	40
MTCE 54.150 V	711536	58	RADS 100.300 S	171132	26	RBAVDSRS 600	925421	40
MTCE 54.200 E3	713455	58	RADS 100.400 S	171149	26	RBAVS 110.100	924042	33
MTCE 54.200 E4	714339	58	RADS 100.500 S	171156	26	RBAVS 110.200	924066	33
MTCE 54.200 F	712359	58	RADS 100.600 S	171163	26	RBAVS 110.300	924080	33
MTCE 54.200 V	711550	58	RADS 110.100 S	171170	34	RBAVS 110.400	924103	33
MTCE 54.300 E3	713462	58	RADS 110.200 S	171187	34	RBAVS 110.500	924127	33
MTCE 54.300 E4	714346	58	RADS 110.300 S	171194	34	RBAVS 110.600	924141	33
MTCE 54.300 F	712373	58	RADS 110.400 S	171217	34	RD 100	260300	97
MTCE 54.300 V	711574	58	RADS 110.500 S	171224	34	RD 200	260508	97
MTEKM 4X10 E10	165643	44	RADS 110.600 S	171231	34	RD 300	260706	97
MTEKM 4X10 E10	165643	67	RAW 100.100 S	132522	26	RD 400	260805	97
MTEKM 4X10 E10	165643	80	RAW 100.300 S	132539	26	RD 500	260904	97
MTEKM 4X10 E10	165643	86	RAW 110.100	764204	35	RD 600	261109	97
MTEKM 4X10 E10	165643	96	RAW 110.100	764204	93	RDB 85.100 V	132546	47
MTEKM 6X25 MS	168125	44	RAW 110.300	764600	35	RDB 85.200 V	132553	47
MTEKM 6X25 MS	168125	67	RAW 110.300	764600	93	RDB 85.300 V	132560	47
MTEKM 6X25 MS	168125	80	RAW 60.100	763207	19	RDB 85.400 V	132577	47
MTEKM 6X25 MS	168125	87	RAW 60.100	763207	78	RDB 85.500 V	132584	47
MTEKM 6X25 MS	168125	96	RAW 60.300	763603	19	RDB 85.600 V	132591	47
NA 6X30	117673	161	RAW 60.300	763603	78	RDHF 9 E2	920457	97
NA 6X5	158171	161	RAW 85.100	243334	86	RDHFS 9 VZL	182985	38
NDN 6/35	158188	162	RAW 85.300	243358	86	RDRS 100-2.0 AL	161577	36

LIST OF ITEMS

model no.	EAN code	page	model no.	EAN code	page	model no.	EAN code	page
RDRS 100-2.0 S	149421	36	RESDVRSRS 300	863747	43	RKBA 6	934805	157
RDRS 2	270002	99	RESDVRSRS 400	863761	43	RKS 110.100	254804	92
RDRS 2 E3	337606	44	RESDVRSRS 500	863778	43	RKS 110.200	254903	92
RDRS 200-2.0 S	149438	36	RESDVRSRS 600	863792	43	RKS 110.300	255009	92
RDRS 300-2.0 S	149445	36	RESS 100.100 S	129652	25	RKS 110.400	255108	92
RDRS 400-2.0 S	149452	36	RESS 100.200 S	129669	25	RKS 110.500	255207	92
RDRS 500-2.0 S	149469	36	RESS 100.300 S	129676	25	RKS 110.600	135745	92
RDRS 600-2.0 S	149476	36	RESS 100.400 S	129683	25	RKS 60.100	229604	78
RDRS 9X2	269884	38	RESS 100.500 S	129690	25	RKS 60.200	229802	78
RDRS 9X2 E3	143702	38	RESS 100.600 S	129713	25	RKS 60.300	230006	78
RDS 100	936069	36	RESS 110.100	862702	34	RKS 60.400	230105	78
RDS 200	936083	36	RESS 110.200	862726	34	RKS 60.500	230204	78
RDS 300	936106	36	RESS 110.300	862740	34	RKS 60.600	230303	78
RDS 400	936120	36	RESS 110.400	862764	34	RKSDV 100	278701	98
RDS 500	936144	36	RESS 110.500	862771	34	RKSDV 200	278909	98
RDS 600	936168	36	RESS 110.600	862795	34	RKSDV 300	279104	98
RDSRS 100	936304	36	RFB 110.100	814350	94	RKSDV 400	279203	98
RDSRS 200	936328	36	RFB 110.200	814459	94	RKSDV 500	279302	98
RDSRS 300	936342	36	RFB 110.300	814503	94	RKSDV 600	279500	98
RDSRS 400	936366	36	RFB 110.400	814558	94	RLCI 60.100 S	135332	74
RDSRS 500	936380	36	RFB 110.500	814602	94	RLCI 60.200 S	135356	74
RDSRS 600	936403	36	RFB 110.600	140367	94	RLCI 60.300 S	135370	74
RDSRSL 100	936182	36	RFD 110.100	927722	94	RLCI 60.400 S	144167	74
RDSRSL 200	936205	36	RFD 110.200	927746	94	RLCI 60.500 S	144181	74
RDSRSL 300	936229	36	RFD 110.300	927760	94	RLCI 60.600 S	144204	74
RDSRSL 400	936243	36	RFD 110.400	927784	94	RLCPV 85.100 OV	031610	84
RDSRSL 500	936267	36	RFD 110.500	927807	94	RLCPV 85.200 OV	031627	84
RDSRSL 600	936281	36	RFD 110.600	927821	94	RLCPV 85.300 OV	031634	84
RDVS 100	855605	37	RFD 60.100	844319	79	RLCPV 85.400 OV	031641	84
RDVS 200	855629	37	RFD 60.200	844340	79	RLCPV 85.500 OV	031658	84
RDVS 300	855643	37	RFD 60.300	844364	79	RLCPV 85.600 OV	031665	84
RDVS 400	855667	37	RFD 60.400	844371	79	RMP 130	206148	61
RDVS 500	855681	37	RFD 60.500	844388	79	RMP 130	206148	95
RDVS 600	855704	37	RFD 60.600	844395	79	RMP 130 E3	769728	61
RDVSRS 100	862108	37	RFDDV 110.100	927968	99	RMP 130 E5	073276	61
RDVSRS 200	862122	37	RFDDV 110.200	927982	99	RMP 130 F	206162	61
RDVSRS 300	862146	37	RFDDV 110.300	928002	99	RRA 100-2.5 ALO	862306	37
RDVSRS 400	862160	37	RFDDV 110.400	928026	99	RRA 200-2.5 ALO	862320	37
RDVSRS 500	862177	37	RFDDV 110.500	928040	99	RRA 300-2.5 ALO	862344	37
RDVSRS 600	862191	37	RFDDV 110.600	928064	99	RRA 400-2.5 ALO	862368	37
RDVSRSL 100	917464	37	RFSDDV 60.100	844524	98	RRA 500-2.5 ALO	862375	37
RDVSRSL 200	917488	37	RFSDDV 60.200	844586	98	RRA 600-2.5 ALO	862399	37
RDVSRSL 300	917501	37	RFSDDV 60.300	844623	98	RS 110.100	245802	90
RDVSRSL 400	917525	37	RFSDDV 60.400	844647	98	RS 110.200	246007	90
RDVSRSL 500	917549	37	RFSDDV 60.500	844661	98	RS 110.300	246205	90
RDVSRSL 600	917563	37	RFSDDV 60.600	844685	98	RS 110.400	246403	90
REK 110	253203	91	RGE 110.100	256006	93	RS 110.500	246601	90
REK 60	227600	77	RGE 110.200	256105	93	RS 110.600	140497	90
REK 85	239603	85	RGE 110.300	256204	93	RS 60.100	222605	75
RES 110.100	251803	92	RGE 110.400	256303	93	RS 60.200	222803	75
RES 110.200	251902	92	RGE 110.500	256402	93	RS 60.300	223008	75
RES 110.300	252008	92	RGE 110.600	140374	93	RS 60.400	223206	75
RES 110.400	252107	92	RGE 60.100	231201	79	RS 60.500	223404	75
RES 110.500	252206	92	RGE 60.200	231409	79	RS 60.600	223602	75
RES 110.600	252350	92	RGE 60.300	231607	79	RSB 110.100	814008	93
RES 60.100	226009	77	RGE 60.400	231706	79	RSB 110.200	814107	93
RES 60.200	226207	77	RGE 60.500	231805	79	RSB 110.300	814152	93
RES 60.300	226405	77	RGE 60.600	231904	79	RSB 110.400	814206	93
RES 60.400	226504	77	RGV 110	253302	93	RSB 110.500	814251	93
RES 60.500	226603	77	RGV 60	227709	79	RSB 110.600	140381	93
RES 60.600	226702	77	RGV 85	239702	86	RSBS 110.100 OV	861705	31
RESDV 100	276202	98	RKB 100	270200	86	RSBS 110.200 OV	861729	31
RESDV 200	275007	98	RKB 100	270200	96	RSBS 110.300 OV	861743	31
RESDV 300	274901	98	RKB 200	270408	86	RSBS 110.400 OV	861767	31
RESDV 400	276509	98	RKB 200	270408	96	RSBS 110.500 OV	861774	31
RESDV 500	276608	98	RKB 300	270606	86	RSBS 110.600 OV	861798	31
RESDV 600	276806	98	RKB 300	270606	96	RSD 110.100	928200	94
RESDVR 100-2.0 S	133154	42	RKB 400	270705	86	RSD 110.200	928224	94
RESDVR 200-2.0 S	133161	42	RKB 400	270705	96	RSD 110.300	928248	94
RESDVR 300-2.0 S	133178	42	RKB 500	270804	86	RSD 110.400	928262	94
RESDVR 400-2.0 S	133185	42	RKB 500	270804	96	RSD 110.500	928286	94
RESDVR 500-2.0 S	133192	42	RKB 600	271009	86	RSD 110.600	928309	94
RESDVR 600-2.0 S	133208	42	RKB 600	271009	96	RSD 60.100	844418	79
RESDVS 100	863501	42	RKBA 10	206100	50	RSD 60.200	844449	79
RESDVS 200	863525	42	RKBA 10	206100	148	RSD 60.300	844463	79
RESDVS 300	863549	42	RKBA 10	206100	157	RSD 60.400	844470	79
RESDVS 400	863563	42	RKBA 5	077991	50	RSD 60.500	844487	79
RESDVS 500	863570	42	RKBA 5	077991	148	RSD 60.600	844494	79
RESDVS 600	863594	42	RKBA 5	077991	157	RSDDV 110.100	928446	99
RESDVSRS 100	863709	43	RKBA 6	934805	50	RSDDV 110.200	928460	99
RESDVSRS 200	863723	43	RKBA 6	934805	148	RSDDV 110.300	928484	99



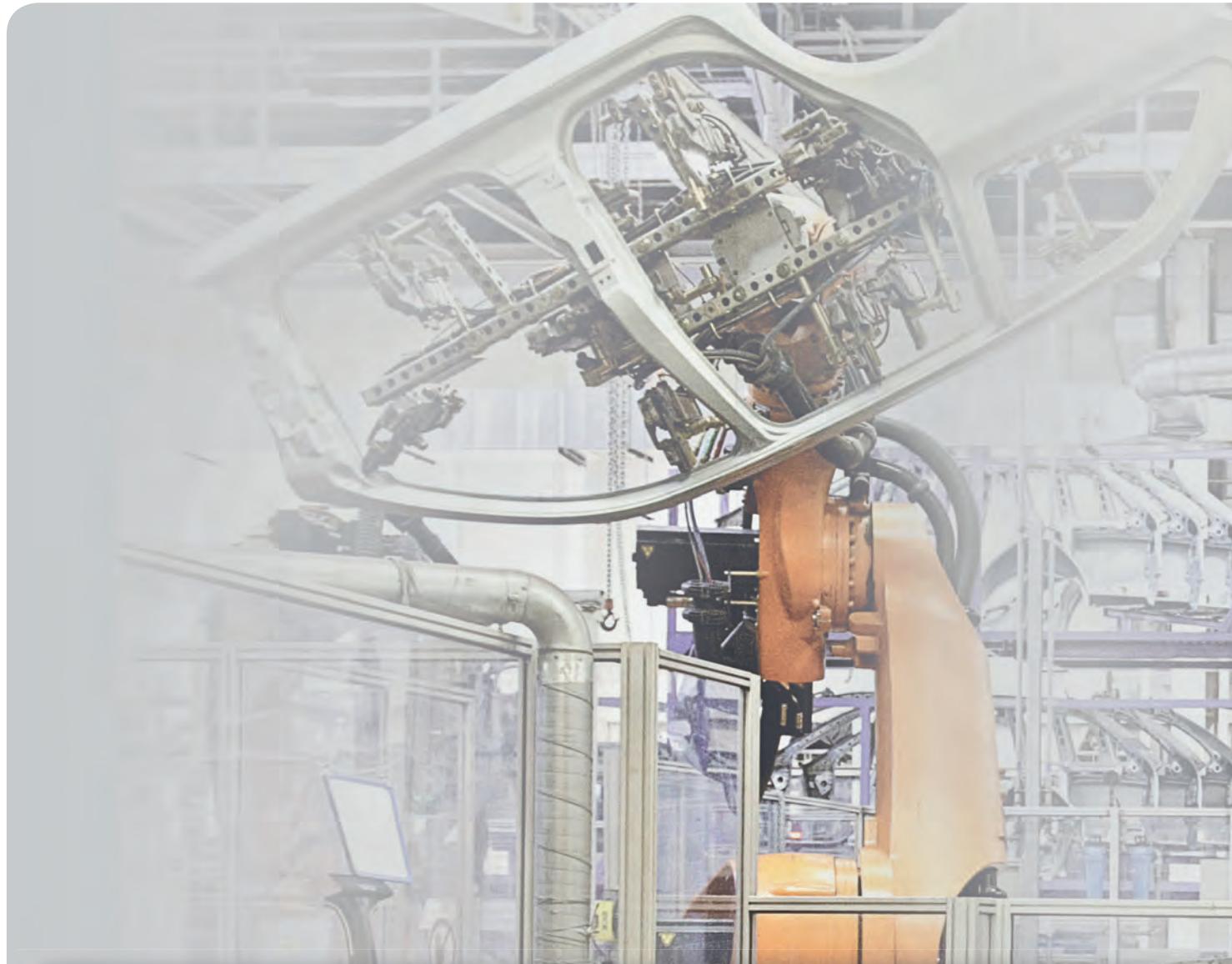
model no.	EAN code	page	model no.	EAN code	page	model no.	EAN code	page
RSDDV 110.400	928507	99	RSUS 110.400 OV	861668	30	RTQ 110.500	794003	95
RSDDV 110.500	928521	99	RSUS 110.500 OV	861675	30	RTQ 110.600	140398	95
RSDDV 110.600	928545	99	RSUS 110.600 OV	861699	30	RTQ 60.100	793327	80
RSLC 100	917655	74	RSUS 60.100 OV	898237	18	RTQ 60.200	793341	80
RSLC 200	917662	74	RSUS 60.200 OV	898251	18	RTQ 60.300	793365	80
RSLC 300	917686	74	RSUS 60.300 OV	898275	18	RTQ 60.400	793389	80
RSLC 400	870608	74	RSUS 60.400 OV	898299	18	RTQ 60.500	793402	80
RSLC 400	870608	84	RSUS 60.500 OV	898312	18	RTQ 60.600	793426	80
RSLC 400	870608	74	RSUS 60.600 OV	898336	18	RTS 110.100	254200	92
RSLC 400	870608	84	RSUV 100-1.5 E3	162444	23	RTS 110.200	254309	92
RSLC 500	870639	74	RSUV 110-1.5 E3	089222	31	RTS 110.300	254408	92
RSLC 500	870639	84	RSUV 60-1.5	861989	18	RTS 110.400	254507	92
RSLC 500	870639	74	RSUVKS 100-1.5 S	167180	23	RTS 110.500	254606	92
RSLC 500	870639	84	RSUVKS 110-1.5 S	167197	31	RTS 110.600	135769	92
RSLC 600	870660	74	RTA 110.100	252503	91	RTS 60.100	228805	78
RSLC 600	870660	84	RTA 110.200	252701	91	RTS 60.200	229000	78
RSLC 600	870660	74	RTA 110.300	252800	91	RTS 60.300	229208	78
RSLC 600	870660	84	RTA 110.400	252909	91	RTS 60.400	229307	78
RSQLS 100.100 AL OV	161584	22	RTA 110.500	253005	91	RTS 60.500	229406	78
RSQLS 100.100 S OV	118250	22	RTA 110.600	253159	91	RTS 60.600	229505	78
RSQLS 100.200 S OV	118243	22	RTA 60.100	226801	77	RTSDV 100	277902	98
RSQLS 100.300 S OV	118236	22	RTA 60.200	227006	77	RTSDV 200	274703	98
RSQLS 100.400 S OV	123629	22	RTA 60.300	227204	77	RTSDV 300	278206	98
RSQLS 100.500 S OV	118229	22	RTA 60.400	227303	77	RTSDV 400	278305	98
RSQLS 100.600 S OV	123612	22	RTA 60.500	227402	77	RTSDV 600	278602	98
RSQLS 110.100 AL OV	161591	31	RTA 60.600	227501	77	RTSDVRS 100-2.0 S	133031	43
RSQLS 110.100 OV	861804	31	RTADV 100	277100	97	RTSDVRS 200-2.0 S	133048	43
RSQLS 110.200 OV	861828	31	RTADV 200	277308	97	RTSDVRS 300-2.0 S	133055	43
RSQLS 110.300 OV	861842	31	RTADV 300	274802	97	RTSDVRS 400-2.0 S	133062	43
RSQLS 110.400 OV	861866	31	RTADV 400	277506	97	RTSDVRS 500-2.0 S	133079	43
RSQLS 110.500 OV	861873	31	RTADV 500	277605	97	RTSDVRS 600-2.0 S	133086	43
RSQLS 110.600 OV	861897	31	RTADV 600	277803	97	RTSDVRS 100	863907	43
RSSBP 190.100 V	167241	48	RTADVRS 100-2.0 S	133093	41	RTSDVRS 200	863921	43
RSSBP 190.200 V	167265	48	RTADVRS 200-2.0 S	133109	41	RTSDVRS 300	863945	43
RSSBP 190.300 V	167272	48	RTADVRS 300-2.0 S	133116	41	RTSDVRS 400	863969	43
RSSBP 190.400 V	167289	48	RTADVRS 400-2.0 S	133123	41	RTSDVRS 500	863976	43
RSSBP 190.500 V	167296	48	RTADVRS 500-2.0 S	133130	41	RTSDVRS 600	863990	43
RSSBP 190.600 V	167319	48	RTADVRS 600-2.0 S	133147	41	RTSDVRSRS 100	864102	43
RSSBP 90.100 V	167326	48	RTADVS 100	863600	41	RTSDVRSRS 200	864126	43
RSSBP 90.200 V	167333	48	RTADVS 200	863624	41	RTSDVRSRS 300	864140	43
RSSBP 90.300 V	167340	48	RTADVS 300	863648	41	RTSDVRSRS 400	864164	43
RSSBP 90.400 V	167357	48	RTADVS 400	863655	41	RTSDVRSRS 500	864171	43
RSSBP 90.500 V	167364	48	RTADVS 500	863662	41	RTSDVRSRS 600	864195	43
RSSBP 90.600 V	167371	48	RTADVS 600	863686	41	RTSKQ 100-1.0 S	132171	23
RSSKP 100.100 S OV	180677	22	RTADVSRS 100	863808	41	RTSKQ 100-1.5 S	132188	23
RSSKP 100.200 S OV	180684	22	RTADVSRS 200	863822	41	RTSKQ 100-2.0 AL	162666	23
RSSKP 100.300 S OV	180691	22	RTADVSRS 300	863846	41	RTSKQ 100-2.0 S	124756	23
RSSKP 100.400 S OV	180714	22	RTADVSRS 400	863853	41	RTSKQ 110-1.0 S	055210	32
RSSKP 100.500 S OV	180721	22	RTADVSRS 500	863860	41	RTSKQ 110-1.5 S	055227	32
RSSKP 100.600 S OV	180738	22	RTADVSRS 600	863884	41	RTSKQ 110-2.0 AL	162680	32
RSSKP 110.100 S OV	180745	30	RTAS 100.100 S	129522	25	RTSKQ 110-2.0 S	055234	32
RSSKP 110.200 S OV	180752	30	RTAS 100.200 S	129539	25	RTSKQ 60-2.0 S	141883	18
RSSKP 110.300 S OV	180769	30	RTAS 100.300 S	129546	25	RTSQF 100-1.5/1000 S	134922	24
RSSKP 110.400 S OV	180776	30	RTAS 100.400 S	129553	25	RTSQF 110-1.5/1000 S	134946	32
RSSKP 110.500 S OV	180783	30	RTAS 100.500 S	129560	25	RTSS 100.100 S	129720	25
RSSKP 110.600 S OV	180790	30	RTAS 100.600 S	129577	25	RTSS 100.200 S	129737	25
RSSTAU 108.100 V	141890	48	RTAS 110.100	862801	33	RTSS 100.300 S	129744	25
RSSTAU 108.200 V	141913	48	RTAS 110.200	862825	33	RTSS 100.400 S	129751	25
RSSTAU 108.300 V	141920	48	RTAS 110.300	862849	33	RTSS 100.500 S	129768	25
RSSTAU 108.400 V	141937	48	RTAS 110.400	862856	33	RTSS 100.600 S	129775	25
RSSTAU 108.500 V	141944	48	RTAS 110.500	862863	33	RTSS 110.100	862900	34
RSSTAU 108.600 V	141951	48	RTAS 110.600	862887	33	RTSS 110.200	862924	34
RSSUP 100.100 S OV	180349	22	RTL 110.200	793822	95	RTSS 110.300	862948	34
RSSUP 100.200 S OV	180332	22	RTL 110.300	793846	95	RTSS 110.400	862962	34
RSSUP 100.300 S OV	180325	22	RTL 110.400	793860	95	RTSS 110.500	862979	34
RSSUP 100.400 S OV	180318	22	RTL 110.500	793884	95	RTSS 110.600	862993	34
RSSUP 100.500 S OV	180295	22	RTL 110.600	140435	95	RTV 110 E2	251162	60
RSSUP 100.600 S OV	180288	22	RTL 60.100	793204	80	RTV 35 E2	213658	60
RSSUP 110.100 S OV	180271	30	RTL 60.200	793228	80	RTV 50 E2	224999	60
RSSUP 110.200 S OV	180264	30	RTL 60.300	793242	80	RTV 60 E2	225149	60
RSSUP 110.300 S OV	180257	30	RTL 60.400	793266	80	RTV 85 E2	237753	60
RSSUP 110.400 S OV	180240	30	RTL 60.500	793280	80	RTV 85 E2	237753	85
RSSUP 110.500 S OV	180233	30	RTL 60.600	793303	80	RTV 85 E2	237753	60
RSSUP 110.600 S OV	180226	30	RTPH 50	231973	76	RTV 85 E2	237753	85
RSSZS 85.40 F	166497	47	RTPH 50	231973	91	RUW 60 S	947454	76
RSSZS 85.80 F	166510	47	RTPH 50 M6	961955	76	RV 110.100	273607	90
RSSZS 95.40 F	154227	47	RTPH 50 M6	961955	91	RV 110.200	273706	90
RSSZS 95.80 F	152964	47	RTQ 110.100	793921	95	RV 110.300	273805	90
RSUS 110.100 OV	861606	30	RTQ 110.200	793945	95	RV 110.400	273904	90
RSUS 110.200 OV	861620	30	RTQ 110.300	793969	95	RV 110.500	274000	90
RSUS 110.300 OV	861644	30	RTQ 110.400	793983	95	RV 110.600	274123	90

LIST OF ITEMS

model no.	EAN code	page	model no.	EAN code	page	model no.	EAN code	page
RV 60.100	271702	75	SKM 10X25 E5	729302	101	STIC 86/603	323487	119
RV 60.200	271900	75	SKM 10X25 E5	729302	133	STIC 86/606	323500	119
RV 60.300	272105	75	SKM 10X25 V	207305	101	STIC 86/703	048168	119
RV 60.400	272204	75	SKM 10X25 V	207305	133	STIC 86/706	323609	119
RV 60.500	272303	75	SKM 10X40 E3	344048	101	STIC 86/803	048175	119
RV 60.600	272402	75	SKM 10X40 E3	344048	133	STIC 86/806	323708	119
RVC 60	870523	74	SKM 10X40 V	207404	101	STIC 86/903	048182	119
RVC 85	937158	84	SKM 10X40 V	207404	133	STIC 86/906	323807	119
RVV 50	258604	76	SKM 10X50 V	207503	101	STUC 60/1005 F	924769	118
RW 100-1.5 S	180219	23	SKM 10X50 V	207503	133	STUC 60/1105 F	924783	118
RW 100-2.0 S	180189	23	SKM 10X70 E3	344086	101	STUC 60/1205 F	924806	118
RW 110	251001	60	SKM 10X70 E3	344086	133	STUC 60/205 F	924608	118
RW 110	251001	90	SKM 10X70 V	207541	101	STUC 60/305 F	924622	118
RW 110	251001	60	SKM 10X70 V	207541	133	STUC 60/405 F	924646	118
RW 110	251001	90	SKM 10X80 F	886203	101	STUC 60/505 F	924660	118
RW 110 E3	333509	60	SKM 10X80 F	886203	133	STUC 60/605 F	924684	118
RW 110 E5	074518	60	SKM 10X90 E3	344093	101	STUC 60/705 F	924707	118
RW 110 F	251100	60	SKM 10X90 E3	344093	133	STUC 60/805 F	924721	118
RW 110-1.5 S	180165	32	SKM 10X90 F	893485	101	STUC 60/905 F	924745	118
RW 110-2.0 S	180141	32	SKM 10X90 F	893485	133	TP 40.45	861101	24
RW 35	213504	60	SKM 12X50 F	071531	101	TP 40.45	861101	33
RW 35 E3	333325	60	SKM 12X50 F	071531	133	TPH 60	806003	143
RW 35 E5	082926	60	SKM 12X50 V	064731	101	TPH 60	806003	154
RW 35 F	213603	60	SKM 12X50 V	064731	133	TPH 80	459278	143
RW 50	224951	19	SKM 12X70 F	071548	101	TPHRS 100 S	131471	24
RW 50	224951	60	SKM 12X70 F	071548	133	TPHRS 110 S	861156	33
RW 50	224951	19	SKM 12X70 V	207565	101	TPS 30	459223	144
RW 50	224951	60	SKM 12X70 V	207565	133	TPS 50	459247	144
RW 50 E3	333356	60	SKM 16X40 V	207589	101	TPS 50	459247	153
RW 50 F	938551	60	SKM 16X40 V	207589	133	TPS 50	459247	144
RW 60	225002	60	SKM 8X16 E3	343904	101	TPS 50	459247	153
RW 60	225002	76	SKM 8X16 E3	343904	133	TPS 70	459261	144
RW 60	225002	154	SKM 8X16 E5	729203	101	TPS 90	720309	144
RW 60	225002	60	SKM 8X16 E5	729203	133	TR 86 S	162703	44
RW 60	225002	76	SKM 8X16 V	207107	101	TRV 40	891795	112
RW 60	225002	154	SKM 8X16 V	207107	133	TV 40	160105	45
RW 60 E3	333400	60	SKM 8X40 E3	343959	101	U 5050/1000 F	918706	108
RW 60 E5	729401	60	SKM 8X40 E3	343959	133	U 5050/1100 F	918720	108
RW 60 F	225101	60	SKRWL 50	966264	60	U 5050/1200 F	918744	108
RW 60-2.0 S	180127	18	SKRWR 50	966271	60	U 5050/1500 F	918768	108
RW 85	237609	24	SKU 5050	188390	108	U 5050/200 F	918522	108
RW 85	237609	32	SKU 6040	912162	110	U 5050/2000 F	918782	108
RW 85	237609	60	SKU 6040	912162	118	U 5050/250 F	918546	108
RW 85	237609	85	SPC 86/1000	326006	120	U 5050/300 F	918560	108
RW 85	237609	24	SPC 86/1100	326105	120	U 5050/3000 F	859306	108
RW 85	237609	32	SPC 86/1200	326204	120	U 5050/400 F	918584	108
RW 85	237609	60	SPC 86/200	325528	120	U 5050/500 F	918607	108
RW 85	237609	85	SPC 86/300	325542	120	U 5050/600 F	918621	108
RW 85 E3	333424	60	SPC 86/400	325566	120	U 5050/6000 F	859320	108
RW 85 F	237708	60	SPC 86/500	325580	120	U 5050/700 F	918645	108
RWTS 60-1.5	934379	19	SPC 86/600	325603	120	U 5050/800 F	918669	108
RZP 100/100 S	114153	46	SPC 86/700	325702	120	U 5050/900 F	918683	108
RZP 100/200 S	114146	46	SPC 86/800	325801	120	U 6040/1000 F	891696	110
RZP 100/300 S	121328	46	SPC 86/900	325900	120	U 6040/1100 F	891702	110
RZP 100/400 S	121335	46	SPCKL 86/1000 F	924981	118	U 6040/1200 F	891719	110
RZP 100/500 S	121342	46	SPCKL 86/1100 F	925001	118	U 6040/1500 F	891726	110
RZP 100/600 S	127658	46	SPCKL 86/1200 F	925025	118	U 6040/200 F	891603	110
RZP 120/100	861408	46	SPCKL 86/200 F	924820	118	U 6040/2000 F	891733	110
RZP 120/200	861422	46	SPCKL 86/300 F	924844	118	U 6040/250 F	891610	110
RZP 120/300	861446	46	SPCKL 86/400 F	924868	118	U 6040/300 F	891627	110
RZP 120/400	861460	46	SPCKL 86/500 F	924882	118	U 6040/3000 F	891740	110
RZP 120/500	861484	46	SPCKL 86/600 F	924905	118	U 6040/400 F	891634	110
RZP 120/600	861507	46	SPCKL 86/700 F	924929	118	U 6040/500 F	891641	110
RZP 50/100	191833	45	SPCKL 86/800 F	924943	118	U 6040/600 F	891658	110
RZP 50/200	847907	45	SPCKL 86/900 F	924967	118	U 6040/6000 F	891764	110
RZP 50/300	847921	45	SPKGM 25 F	934959	111	U 6040/700 F	891665	110
RZP 50/400	847945	45	SPKM 25 F	931040	111	U 6040/800 F	891672	110
RZP 50/500	847969	45	STIC 86/1003	048090	119	U 6040/900 F	891689	110
RZP 50/600	847983	45	STIC 86/1006	323906	119	UGM 10	209101	100
RZP 80/100	191864	46	STIC 86/1103	048113	119	UGM 10	209101	133
RZP 80/200	861200	46	STIC 86/1106	324002	119	UGM 10 E3	936854	100
RZP 80/300	861224	46	STIC 86/1203	048120	119	UGM 10 E3	936854	133
RZP 80/400	861248	46	STIC 86/1206	324101	119	UGM 12 E3	072385	100
RZP 80/500	861262	46	STIC 86/203	323449	119	UGM 12 E3	072385	133
RZP 80/600	861286	46	STIC 86/206	873203	119	UGM 12 V	072378	100
RZPBL 25.90	861583	46	STIC 86/303	323456	119	UGM 12 V	072378	133
SKC 86	933105	122	STIC 86/306	873227	119	UGM 6	208906	100
SKC 88/96	926800	123	STIC 86/403	323463	119	UGM 6	208906	133
SKI 80	912605	120	STIC 86/406	873241	119	UGM 6 E3	927258	100
SKM 10X25 E3	344000	101	STIC 86/503	323470	119	UGM 6 E3	927258	133
SKM 10X25 E3	344000	133	STIC 86/506	873265	119	UGM 8	209002	49



model no.	EAN code	page	model no.	EAN code	page	model no.	EAN code	page
UGM 8	209002	100	VBASB 92.8-1.5/3000 S	132164	47	W-HPE 700	186006	169
UGM 8	209002	133	VBASB 95-1.5/3000 S	152971	47	W-HPM 700	186013	169
UGM 8	209002	49	VBI 80	199501	120	W-SB 10.23	872107	171
UGM 8	209002	100	WAI 200 S	142842	106	W-SPOK T1-20	085415	168
UGM 8	209002	133	W-ALS 50X35	163298	171	W-SPOK T2-20	166350	169
UGM 8 E3	931248	49	W-ALS 50X55	154142	171	W-SPOK T2-30	166367	169
UGM 8 E3	931248	100	W-AW 1000X580 E3	186129	170	W-TW 500-1	167098	170
UGM 8 E3	931248	133	W-BL 20.65	872121	171	W-TW 800-3-1/1100 C	186037	170
UGM 8 E3	931248	49	W-BL 30.65	872145	171	WWI 80	193004	121
UGM 8 E3	931248	100	W-GG T1-Z15	185979	168	WWU 150	194407	119
UGM 8 E3	931248	133	W-GG T2-Z15	185986	168	ZKF 1	205905	134
VB 50	199303	108	W-GG T2-Z25	185993	168	ZKM 6X16	461103	67
VB 6040	891788	110	W-GGAS T1	184293	168	ZKS	206056	134
VB 6040	891788	119	W-GGAS T2	184316	169	ZKV 1	206001	134
VBASB 106.7-2.0/3000 S	115129	48	W-GRSWS 1.5 AH	110780	172			
VBASB 85-1.5/3000 S	138432	47	W-HHA 360-3	186440	172			

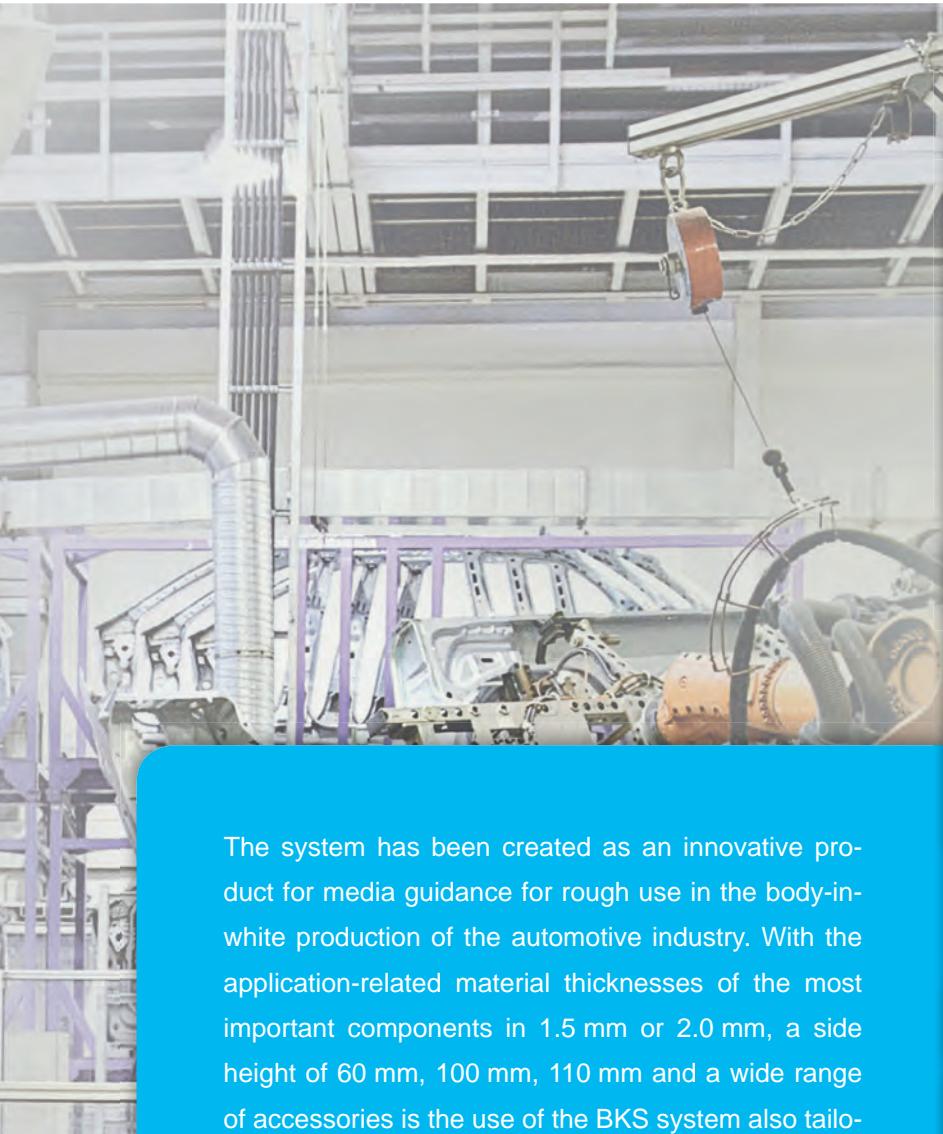


WALKABLE CABLE TRAY

Side rail heights ↑⁶⁰ ↑¹⁰⁰ ↑¹¹⁰

- Walkable Cable Tray
- Fittings
- Barrier Strips
- Covers
- Accessories

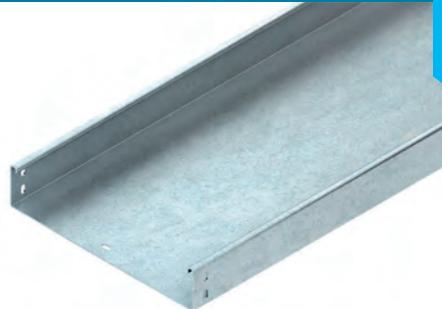




The system has been created as an innovative product for media guidance for rough use in the body-in-white production of the automotive industry. With the application-related material thicknesses of the most important components in 1.5 mm or 2.0 mm, a side height of 60 mm, 100 mm, 110 mm and a wide range of accessories is the use of the BKS system also tailored to other industries in plant construction. In order to meet the requirements of the industry, the walkable cable tray system is subject to constant quality control in which the slip resistance as well as the load capacity are checked in order to guarantee our customers a high degree of safety.

On the right you will find a selection of the most frequently used articles, more on the following pages.

RSUS 60...



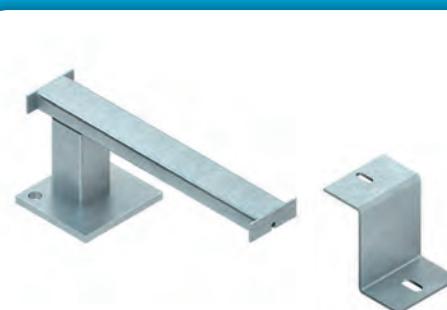
RSSKP 100..., RSSKP 110...



RDRS...-2.0 + RDHFS 9 VZL



RSSTAU... / RSSZS...

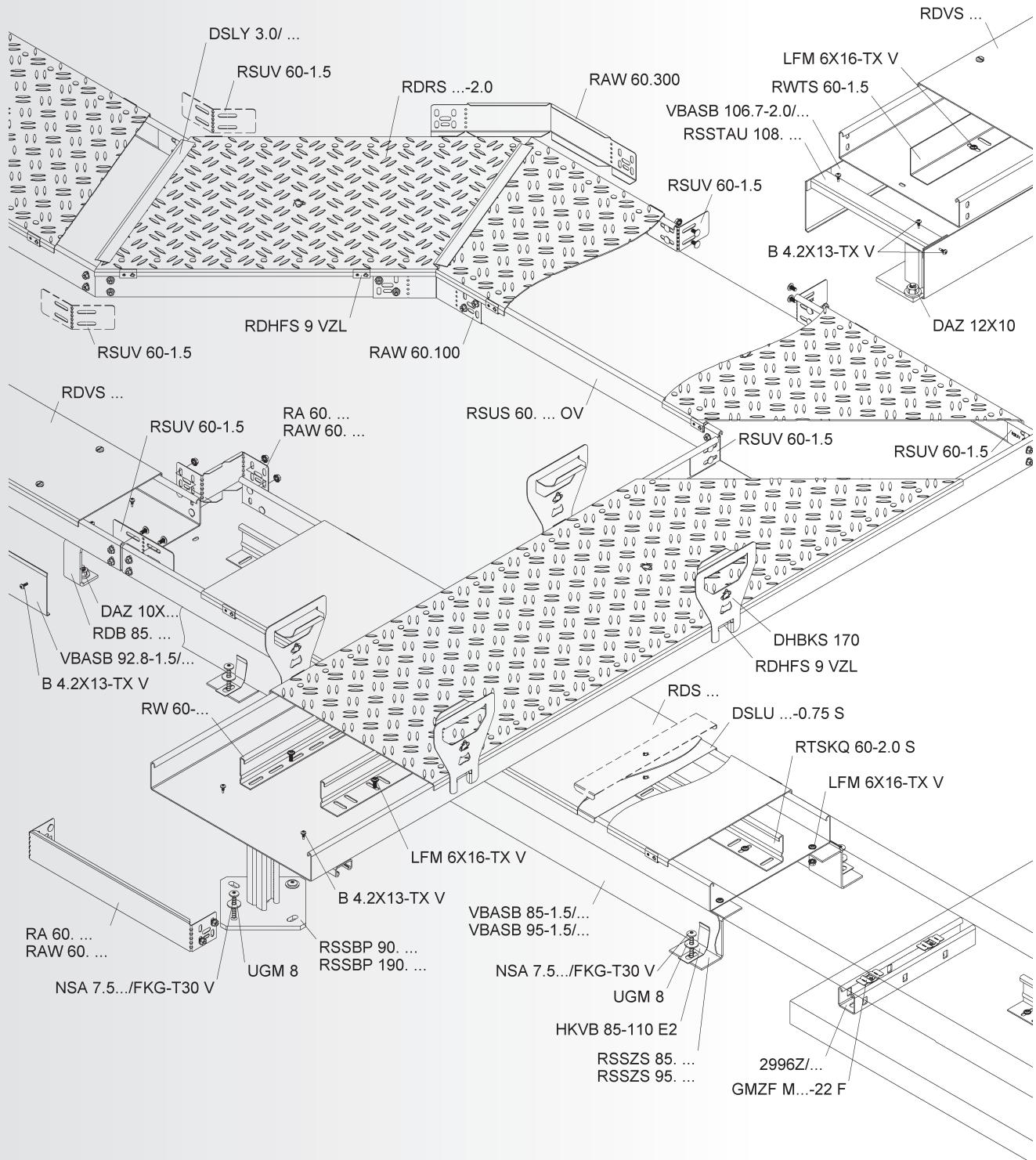


WALKABLE CABLE TRAY SYSTEM

System overview of the side height

SYSTEM	Heavy Duty Cable Tray	RSUS...	Page 18
ACCESSORIES	Universal Splice Plate	RSUV 60-1.5	Page 18
	Barrier Strip	RW 60-2.0 S	Page 18
	Barrier Strip, heavy duty	RTSKQ 60-1.5	Page 18
	Barrier Strip	RWTS 60-1.5, RW 50	Page 19
	Reducer / Blind End	RA...	Page 19
	Adjustable Splice / Reducer / Blind End	RAW...	Page 19
	Cover for Cable Tray	RDS...	Page 36
	Heavy Duty Cover, antislip	RDRS..., RDSRSL..., RDSRS...	Page 36
	Cover for Cable Tray	RDVS...	Page 37
	Heavy Duty Cover, antislip	RDVSRSL..., RDVSRSS...	Page 37
	Heavy Duty Chequer Plate, aluminium, antislip	RRA...	Page 37
★	Cover Clamp	RDHFS 9 VZL	Page 38
	Lifter for Covers	DHBKS 170 S	Page 38
	Turnbolt Lock	RDRS...	Page 38/44
	Cover Protection Strip	DSLY 3.0/..., DSLZ 2.5/...	Page 39
★	Cover Protection Strip	DSLU...	Page 39
	Neoprene Adhesive Tape	NKB 8X2	Page 40
	Ground Terminal	MTEKM 4X10 E10, MTEKM 6X25 MS	Page 44
	Bearing	TR 86 S	Page 44
	C-profile 2986	2986/...	Page 45
	T-Connector	TV 40	Page 45
	Mushroom Head Bolt	FLM...	Page 45/49
	Floor Mounting Bracket 50 mm, 80 mm	RZP 50/..., RZP 80/...	Page 45/46
	Floor Mounting Bracket 100 mm, 120 mm	RZP 100/..., RZP 120/...	Page 46
	Floor Clamp	RZPBL 25.90	Page 46
	Floor Support	RSSZS...	Page 47
	Covering Panel	VBASB...	Page 47
	Retaining Clip Covering Sheet	HKVB 85-110 E2	Page 47
	Floor Stand 85 mm	RDB...	Page 47
	Covering Panel	VBASB 92.8-1.5/3000 S	Page 47
	Floor Support	RSSBP...	Page 48
	Floor Stand	RSSTAU...	Page 48
	Covering Panel	VBASB 106.7-2.0/3000 S	Page 48
	Wire Mesh Tray Support Bracket	GRHW...	Page 49
	C-profile 2986	2986/...	Page 49
	Large Diameter Washer	UGM...	Page 49
	Pan Head Screw	LFM 6X16-TX V	Page 49
	Pan Head Self Drilling Screws	B 4.2X13-TX V	Page 50
	Edge Protection Strip	RKBA...	Page 50





WALKABLE CABLE TRAY SYSTEM

Heavy Duty Cable Tray

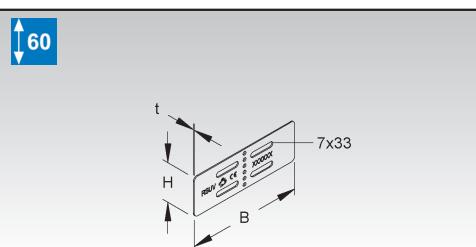
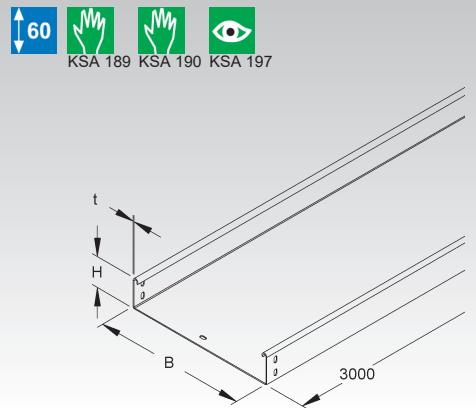
splice plates not included

	Model No.	Height H mm	Width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S	RSUS 60.100 OV	60	100	2	898237	371,9	2 x 3 m
S	RSUS 60.200 OV	60	200	2	898251	528,9	2 x 3 m
S	RSUS 60.300 OV	60	300	2	898275	685,8	2 x 3 m
S	RSUS 60.400 OV	60	400	2	898299	842,7	2 x 3 m
S	RSUS 60.500 OV	60	500	2	898312	999,7	2 x 3 m
S	RSUS 60.600 OV	60	600	2	898336	1.156,7	2 x 3 m

including holes for splice plates on both ends, as well as stabilising rolled longitudinal edges

Standard fittings can be used in combination with covers for the walkable system.

Please order 2 universal splice plates RSUV 60-1.5 for each joint extra.



Universal Splice Plate

	Model No.	Height H mm	Width B mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RSUV 60-1.5	51	150	1,5	4 FLM 6X12	861989	11,48	50 pcs.

for creating connections on continuous cable trays and for horizontal directional changes

Barrier Strip

with system perforation

	Model No.	Height H mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100	Smallest packaging unit
S	RW 60-2.0 S	58	2	4 FLM 6X12	180127	146,23	3 m

for infinitely variable partitioning of the tray width with additionally folded edges to protect the cable when it is being pulled, the continuous perforated folding allows a stepless mounting

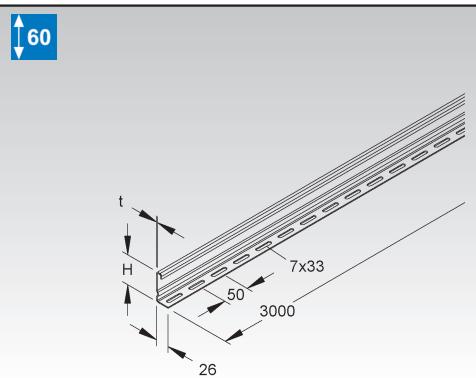
Minimum number of barrier strips required to support the walkable covers:

for cover width 100 mm and 200 mm = none

for cover width 300 mm and 400 mm = 1 piece with a maximum compartment width of 200 mm

for cover width 500 mm and 600 mm = 2 pieces with a maximum compartment width of 200 mm

Other lengths available on request.



Barrier Strip, heavy duty

with system perforation

	Model No.	Height H mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 m	Smallest packaging unit
S	RTSKQ 60-2.0 S	58	2	4 FLM 6X12	141883	169,35	3 m

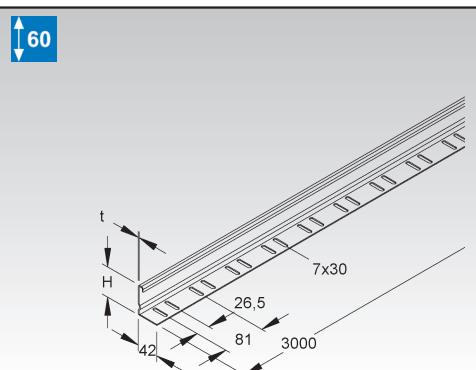
for infinitely variable partitioning of the tray width with additionally folded edges to protect the cable when it is being pulled

Minimum number of barrier strips required to support the walkable covers:

for cover width 100 and 200 mm = none

for cover width 300 mm and 400 mm = 1 piece with a maximum compartment width of 200 mm

for cover width 500 mm and 600 mm = 2 pieces with a maximum compartment width of 200 mm



Barrier Strip

L-shaped plate, with system perforation

Model No.	Height H mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 m	Smallest packaging unit
S RWTS 60-1.5	58	1,5	4 FLM 6X12	934379	115,02	2 x 3 m

for infinitely variable partitioning of the tray width

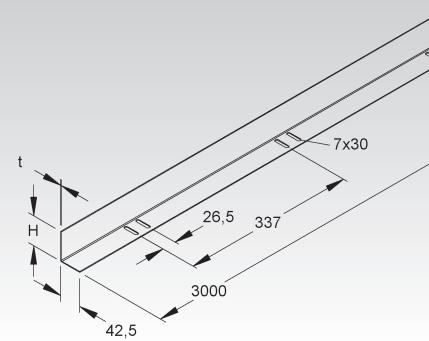
Minimum number of barrier strips required to support the walkable covers:

for cover width 100 mm and 200 mm = none

for cover width 300 mm and 400 mm = 1 piece with a maximum compartment width of 200 mm

for cover width 500 mm and 600 mm = 2 pieces with a maximum compartment width of 200 mm

↑ 60



Barrier Strip

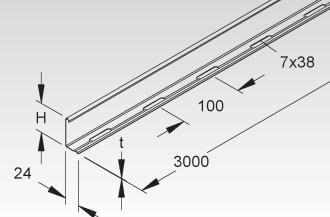
Model No.	Height H mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 m	Smallest packaging unit
S RW 50	47	0,75	4 FLM 6X12	224951	45,05	10 x 3 m

for the separation of wires and cables with different functions and/or voltages

This barrier strip is not suitable for supporting the walkable cover.

The continuous perforation allows a stepless mounting.

↑ 50

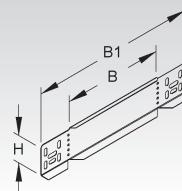


Reducer / Blind End

Model No.	Height H mm	Width B mm	Width B1 mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RA 60.200	60	200	322	4 FLM 6X12	763405	19,9	20 pcs.
S RA 60.400	60	400	522	4 FLM 6X12	763801	31,8	20 pcs.
S RA 60.500	60	500	622	4 FLM 6X12	763900	37,7	20 pcs.
S RA 60.600	60	600	722	4 FLM 6X12	764006	43,7	20 pcs.

for terminating cable tray ends and for reducing and extending continuous cable trays

↑ 60



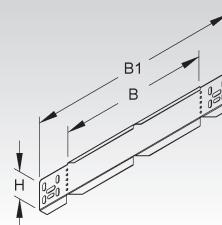
Adjustable Splice / Reducer / Blind End

Model No.	Height H mm	Width B mm	Width B1 mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RAW 60.100	60	100	222	4 FLM 6X12	763207	13,00	20 pcs.
S RAW 60.300	60	300	422	4 FLM 6X12	763603	25,76	20 pcs.

to form a closure for a dead end cable tray or for joining cable trays of different width

for terminating cable tray ends and for reducing and extending continuous cable trays

↑ 60

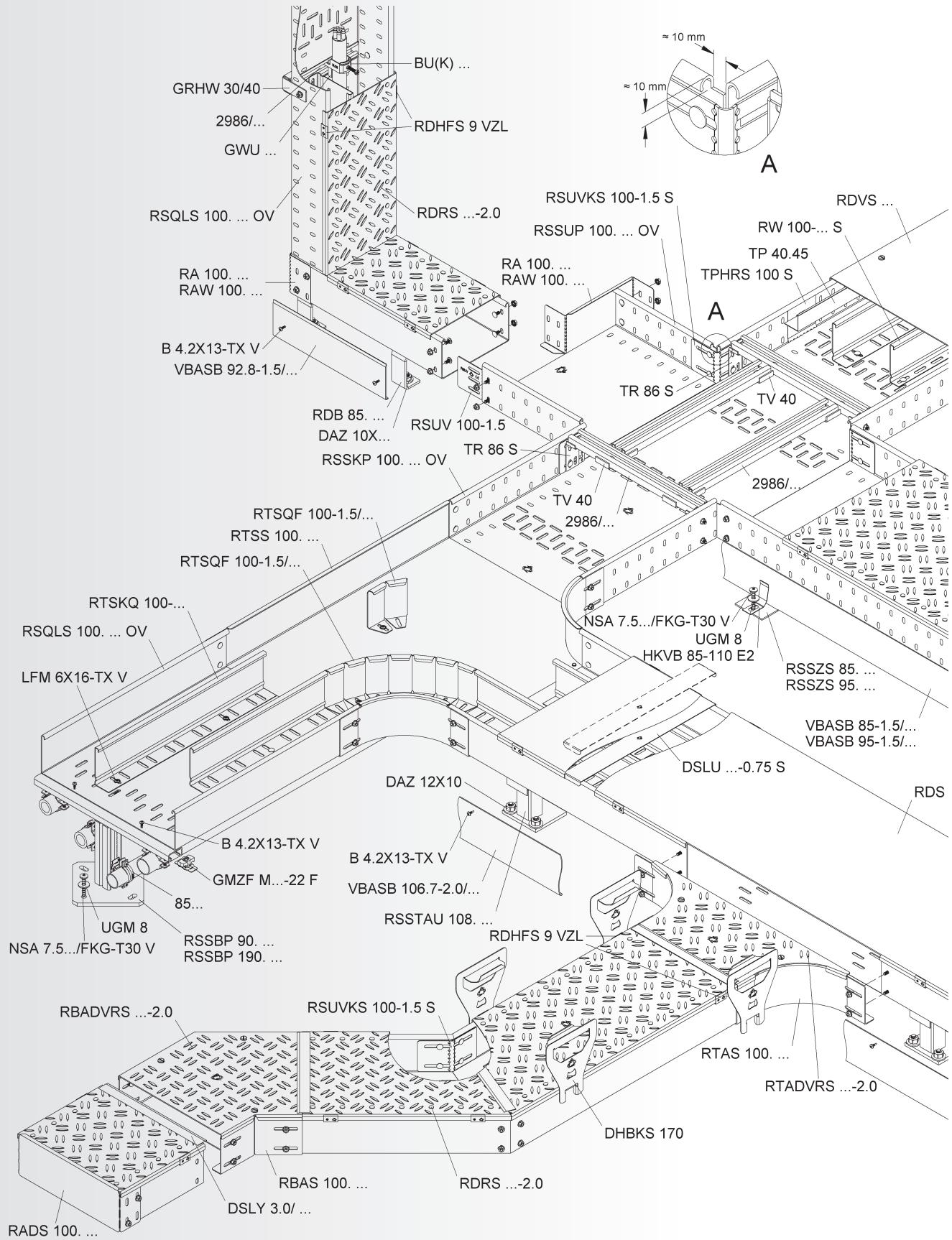


WALKABLE CABLE TRAY SYSTEM

System overview of the side height

SYSTEM	★ Heavy Duty Cable Tray	RSSUP..., RSSKP...	Page 22
	★ Heavy Duty Cable Tray	RSQLS...	Page 22
ACCESSORIES	Universal Splice Plate	RSUV 100-1.5 E3, RSUVKS 100-1.5 S	Page 23
	★ Barrier Strip	RW...	Page 23/24
	Barrier Strip, heavy duty	RTSKQ...	Page 23
	Barrier Strip	RTSQF 100-1.5/1000 S, RW 85	Page 24
	Mounting Plate for Barrier Strip	TPHRS 100 S	Page 24
	Barrier Strip Profile	TP 40.45	Page 24
	Extension Horizontal Tee	RTAS...	Page 25
	Elbow 45°, Elbow 90°	RBAS..., RESS...	Page 25
	Horizontal Tee	RTSS...	Page 25
	Blind End	RADS...	Page 26
	Reducer / Blind End	RA...	Page 26
	Adjustable Splice / Reducer / Blind End	RAW...	Page 26
	Cover for Cable Tray	RDS...	Page 36
	Heavy Duty Cover, antislip	RDRS..., RDSRSL..., RDSRS...	Page 36
	Cover for Cable Tray	RDVS...	Page 37
	Heavy Duty Cover, antislip	RDVSRSL..., RDVSR...	Page 37
	Heavy Duty Chequer Plate, aluminium, antislip	RRA...	Page 37
	★ Cover Clamp	RDHFS 9 VZL	Page 38
	Lifter for Covers	DHBKS 170 S	Page 38
	Turnbolt Lock	RDRS...	Page 38/44
	Cover Protection Strip	DSLY 3.0/..., DSLZ 2.5/...	Page 39
	★ Cover Protection Strip	DSLU...	Page 39
	Neoprene Adhesive Tape	NKB 8X2	Page 40
	Cover for Flexible Horizontal Elbow	RBAVDS...	Page 40
	Cover for Flexible Horizontal Fitting, antislip	RBAVDSRS...	Page 40
	Cover for Horizontal Extension Tee	RTADVS...	Page 41
	Heavy Duty Cover for Horizontal Extension Tee, antislip	RTADVRS..., RTADVSRS...	Page 41
	Cover for Elbow 45°	RBADVS...	Page 41
	Cover for Elbow 45°, antislip	RBADVRS..., RBADVSRS...	Page 42
	Cover for Elbow 90°	RESDVS...	Page 42
	Cover for Elbow 90°, antislip	RESDVRS..., RESDVSRS...	Page 42/43
	Cover for Horizontal Tee	RTSDVS...	Page 43
	Cover for T-piece, antislip	RTSDVRS..., RTSDVSRS...	Page 43
	Ground Terminal	MTEKM 4X10 E10, MTEKM 6X25 MS	Page 44
	Bearing	TR 86 S	Page 44
	C-profile 2986	2986/...	Page 45/49
	T-Connector	TV 40	Page 45
	Mushroom Head Bolt	FLM...	Page 45/49
	Floor Mounting Bracket 50 mm, 80 mm,	RZP 50/..., RZP 80/...	Page 45/46
	Floor Mounting Bracket 100 mm, 120 mm	RZP 100/..., RZP 120/...	Page 46
	Floor Clamp	RZPBL 25.90	Page 46
	Floor Support	RSSZS...	Page 47
	Covering Panel	VBASB...	Page 47
	Retaining Clip Covering Sheet	HKVB 85-110 E2	Page 47
	Floor Stand 85 mm	RDB 85...	Page 47
	Covering Panel	VBASB 92.8-1.5/3000 S	Page 47
	Floor Support	RSSBP...	Page 48
	Floor Stand	RSSTAU...	Page 48
	Covering Panel	VBASB 106.7-2.0/3000 S	Page 48
	Wire Mesh Tray Support Bracket	GRHW...	Page 49
	Large Diameter Washer	UGM...	Page 49
	Pan Head Screw	LFM 6X16-TX V	Page 49
	Pan Head Self Drilling Screws	B 4.2X13-TX V	Page 50
	Edge Protection Strip	RKBA...	Page 50





WALKABLE CABLE TRAY SYSTEM

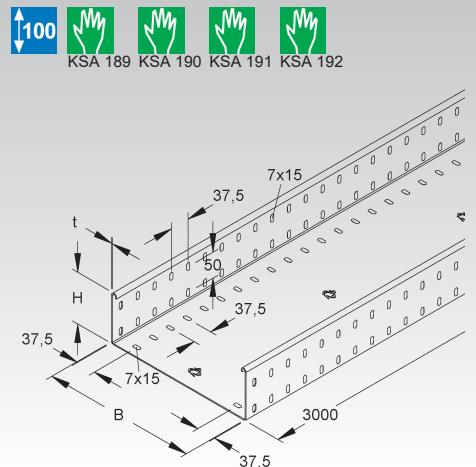
Heavy Duty Cable Tray

non-perforated, with pre-embossed stripping openings, splice plates not included

Model No.	Height H mm	Width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100	Smallest packaging unit
★ S RSSUP 100.100 S OV	100	100	2	180349	497,65	2 x 3 m
★ S RSSUP 100.200 S OV	100	200	2	180332	654,65	2 x 3 m
★ S RSSUP 100.300 S OV	100	300	2	180325	811,65	2 x 3 m
★ S RSSUP 100.400 S OV	100	400	2	180318	968,17	2 x 3 m
★ S RSSUP 100.500 S OV	100	500	2	180295	1.125,65	2 x 3 m
★ S RSSUP 100.600 S OV	100	600	2	180288	1.282,17	2 x 3 m

with splice plate holes on both ends, as well as stabilising rolled longitudinal edges

Please order 2 universal splice plates RSUVKS 100... for each joint extra.



Heavy Duty Cable Tray

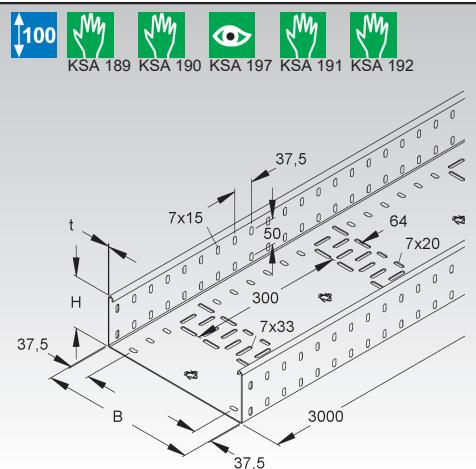
with special perforations and pre-embossed stripping openings, splice plates not included

Model No.	Height H mm	Width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100	Smallest packaging unit
★ S RSSKP 100.100 S OV	100	100	2	180677	493,89	2 x 3 m
★ S RSSKP 100.200 S OV	100	200	2	180684	641,66	2 x 3 m
★ S RSSKP 100.300 S OV	100	300	2	180691	789,43	2 x 3 m
★ S RSSKP 100.400 S OV	100	400	2	180714	937,20	2 x 3 m
★ S RSSKP 100.500 S OV	100	500	2	180721	1.084,97	2 x 3 m
★ S RSSKP 100.600 S OV	100	600	2	180738	1.232,74	2 x 3 m

with special perforations for infinitely variable fixing of dividers

including holes for splice plates on both ends, as well as stabilising rolled longitudinal edges

Please order 2 universal splice plates RSUVKS 100... for each joint extra.



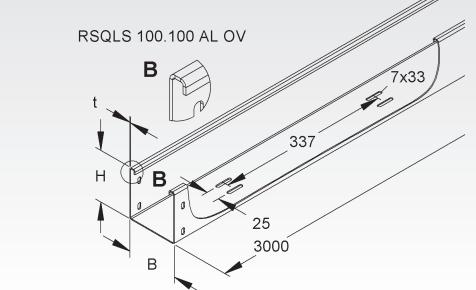
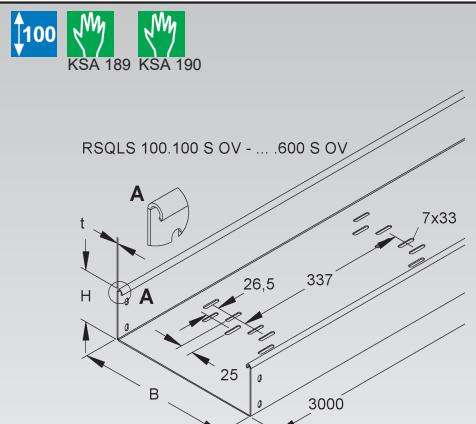
Heavy Duty Cable Tray

with special perforations, splice plate not included

Model No.	Height H mm	Width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S RSQSL 100.100 S OV	100	100	2	118250	496,28	2 x 3 m
S RSQSL 100.200 S OV	100	200	2	118243	649,13	2 x 3 m
S RSQSL 100.300 S OV	100	300	2	118236	801,98	2 x 3 m
S RSQSL 100.400 S OV	100	400	2	123629	954,82	2 x 3 m
S RSQSL 100.500 S OV	100	500	2	118229	1.107,67	2 x 3 m
S RSQSL 100.600 S OV	100	600	2	123612	1.260,52	2 x 3 m
AL RSQSL 100.100 AL OV	100	100	2	161584	173,34	2 x 3 m

including holes for splice plates on both ends, as well as stabilising rolled longitudinal edges with special perforations for infinitely variable fixing of barrier strips

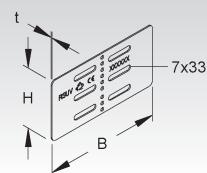
Please order 2 universal splice plates RSUV 100... / RSUVKS 100... for each joint extra.



Universal Splice Plate

Model No.	Height H mm	Width B mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
E3 RSUV 100-1.5 E3	77,5	150	1,5	4 FLM 6X12 E3	162444	15,7	50 pcs.

for creating connections on continuous cable trays and for horizontal directional changes



Universal Splice Plate

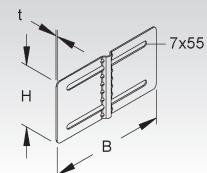
with edge protection

Model No.	Height H mm	Width B mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RSUVKS 100-1.5 S	79	148	1,5	4 FLM 6X12	167180	15,7	50 pcs.

for creating connections on continuous cable trays and for horizontal directional changes
provides additional protection when pulling cables



KSA 186 KSA 200



Barrier Strip

with system perforation

Model No.	Height H mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100	Smallest packaging unit
S RW 100-1.5 S	98	1,5	4 FLM 6X12	180219	159,60	3 m
S RW 100-2.0 S	98	2,0	4 FLM 6X12	180189	209,03	3 m

for stepless division of the gutter width and with additional folding
to protect the cables when pulling the cable, the continuous perforated bending enables stepless installation

Minimum number of barrier strips required to support the walkable covers:

for cover width 100 mm and 200 mm = none

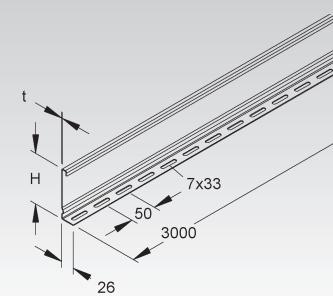
for cover width 300 mm and 400 mm = 1 piece with a maximum compartment width of 200 mm

for cover width 500 mm and 600 mm = 2 pieces with a maximum compartment width of 200 mm

Other lengths available on request



KSA 197



Barrier Strip, heavy duty

with system perforation

Model No.	Height H mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 m	Smallest packaging unit
S RTSKQ 100-1.0 S	98	1,0	4 FLM 6X12	132171	118,44	3 m
S RTSKQ 100-1.5 S	98	1,5	4 FLM 6X12	132188	174,57	3 m
S RTSKQ 100-2.0 S	98	2,0	4 FLM 6X12	124756	232,12	3 m
AL RTSKQ 100-2.0 AL	98	2,0	4 FLM 6X12 E3	162666	80,21	3 m

for infinitely variable partitioning of the tray width with additionally folded edges to protect the cable when it is being pulled

Minimum number of barrier strips required to support the walkable covers:

for cover width 100 mm and 200 mm = none

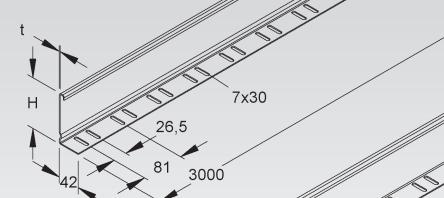
for cover width 300 mm and 400 mm = 1 piece with a maximum compartment width of 200 mm

for cover width 500 mm and 600 mm = 2 pieces with a maximum compartment width of 200 mm

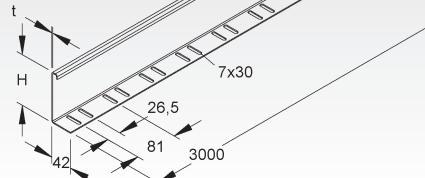
Other lengths available on request



RTSKQ 100... S



RTSKQ 100... AL



WALKABLE CABLE TRAY SYSTEM

Barrier Strip

perforated, with elongated mounting holes

Model No.	Height H mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 m	Smallest packaging unit
S RTSQF 100-1.5/1000 S	98	1,5	3 FLM 6X12	134922	156,98	1 m

segmented for easy horizontal bending

for infinitely variable partitioning of the tray width with additionally folded edges to protect the cable when it is being pulled

for realising shorter lengths, easy burr-free cutting of the 50 mm segments is possible
the segmented pieces can be used individually or in pairs to provide additional support for the walkable cover e.g. in fittings

Minimum number of barrier strips required to support the walkable covers:

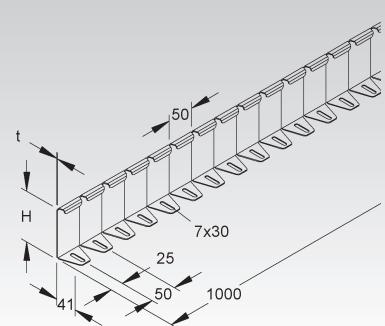
for cover width 100 mm and 200 mm = none

for cover width 300 mm and 400 mm = 1 piece with a maximum compartment width of 200 mm

for cover width 500 mm and 600 mm = 2 pieces with a maximum compartment width of 200 mm



KSA 185



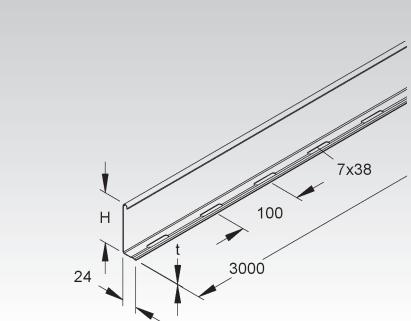
Barrier Strip

Model No.	Height H mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 m	Smallest packaging unit
S RW 85	80	0,9	4 FLM 6X12	237609	78,39	10 x 3 m

for the separation of wires and cables with different functions and/or voltages

This barrier strip is not suitable for supporting the walkable cover.

The continuous perforation allows a stepless mounting.



Mounting Plate for Barrier Strip

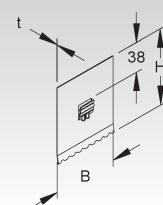
self-locking

Model No.	Height H mm	Width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S TPHRS 100 S	97	83	0,9	131471	5,68	20 pcs.

Used for: barrier strip profile TP 40.45



KSA 200



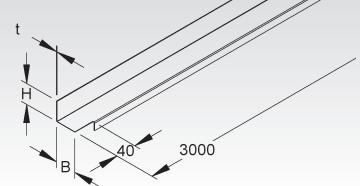
Barrier Strip Profile

Model No.	Height H mm	Width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S TP 40.45	40	45	1	861101	76,55	3 m

for making an extra run of cables along the side rail, ex. for phone or fibre cables



KSA 200

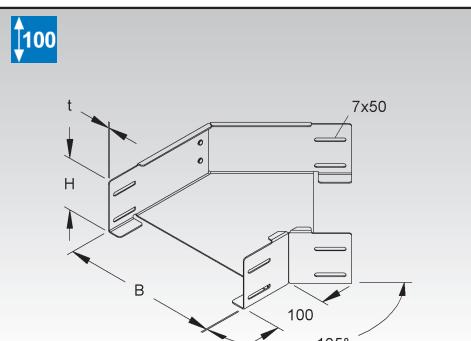
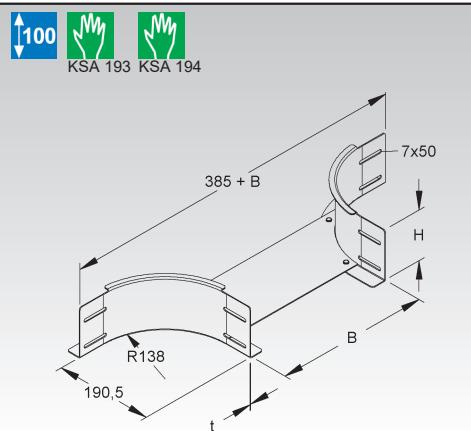


Extension Horizontal Tee

with non-perforated side rail, with integrated splice plates

	Model No.	Height H mm	Inside dimensions width B mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RTAS 100.100 S	100	100	2	8 FLM 6X12	129522	172,55	1 pc.
S	RTAS 100.200 S	100	200	2	8 FLM 6X12	129539	193,27	1 pc.
S	RTAS 100.300 S	100	300	2	8 FLM 6X12	129546	213,99	1 pc.
S	RTAS 100.400 S	100	400	2	8 FLM 6X12	129553	234,72	1 pc.
S	RTAS 100.500 S	100	500	2	8 FLM 6X12	129560	255,44	1 pc.
S	RTAS 100.600 S	100	600	2	8 FLM 6X12	129577	276,17	1 pc.

for creating horizontal 90° T-branches of cable trays of different and the same width

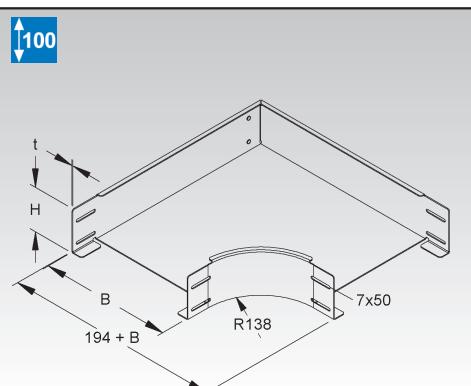


Elbow 45°

with non-perforated side rail, with integrated splice plates

	Model No.	Height H mm	Inside dimensions width B mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RBAS 100.100 S	100	100	2	8 FLM 6X12	129584	114,28	1 pc.
S	RBAS 100.200 S	100	200	2	8 FLM 6X12	129591	160,42	1 pc.
S	RBAS 100.300 S	100	300	2	8 FLM 6X12	129614	219,56	1 pc.
S	RBAS 100.400 S	100	400	2	8 FLM 6X12	129621	291,71	1 pc.
S	RBAS 100.500 S	100	500	2	8 FLM 6X12	129638	376,87	1 pc.
S	RBAS 100.600 S	100	600	2	8 FLM 6X12	129645	475,03	1 pc.

for creating 45° horizontally angled cable tray run

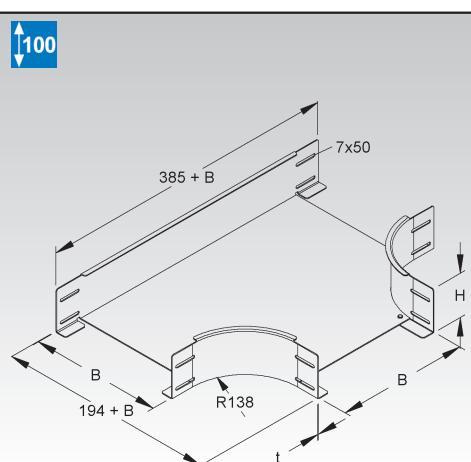


Horizontal Tee

with non-perforated side rail, with integrated splice plates

	Model No.	Height H mm	Inside dimensions width B mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RESS 100.100 S	100	100	2	8 FLM 6X12	129652	240,70	1 pc.
S	RESS 100.200 S	100	200	2	8 FLM 6X12	129669	362,90	1 pc.
S	RESS 100.300 S	100	300	2	8 FLM 6X12	129676	516,51	1 pc.
S	RESS 100.400 S	100	400	2	8 FLM 6X12	129683	701,51	1 pc.
S	RESS 100.500 S	100	500	2	8 FLM 6X12	129690	917,92	1 pc.
S	RESS 100.600 S	100	600	2	8 FLM 6X12	129713	1.165,72	1 pc.

for creating horizontal 90° elbow connections



for horizontal tee connections of cable trays with identical width

WALKABLE CABLE TRAY SYSTEM

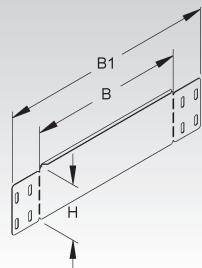
Blind End, with Cover Lock

Model No.	Height H mm	Width B mm	Width B1 mm	Incl. accessories	EAN code	Weight in kg per 100	Smallest packaging unit
S RADS 100.100 S	107,5	100	222	4 FLM 6X12	171118	20,72	20 pcs.
S RADS 100.200 S	107,5	200	322	4 FLM 6X12	171125	29,66	20 pcs.
S RADS 100.300 S	107,5	300	422	4 FLM 6X12	171132	38,60	20 pcs.
S RADS 100.400 S	107,5	400	522	4 FLM 6X12	171149	47,53	20 pcs.
S RADS 100.500 S	107,5	500	622	4 FLM 6X12	171156	56,47	20 pcs.
S RADS 100.600 S	107,5	600	722	4 FLM 6X12	171163	65,41	20 pcs.

for terminating walkable cable tray, with elevated flange to prevent covers from sliding lengthwise



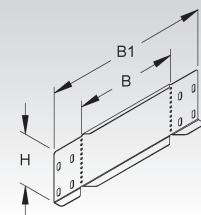
KSA 200



Reducer / Blind End

Model No.	Height H mm	Width B mm	Width B1 mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RA 100.200 S	100	200	322	4 FLM 6X12	132485	32,20	20 pcs.
S RA 100.400 S	100	400	522	4 FLM 6X12	132492	51,62	20 pcs.
S RA 100.500 S	100	500	622	4 FLM 6X12	132508	61,33	20 pcs.
S RA 100.600 S	100	600	722	4 FLM 6X12	132515	71,04	20 pcs.

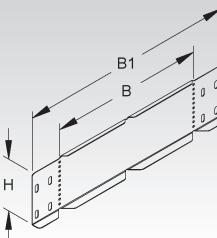
for terminating cable tray ends and for reducing and extending continuous cable trays



Adjustable Splice / Reducer / Blind End

Model No.	Height H mm	Width B mm	Width B1 mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RAW 100.100 S	100	100	222	4 FLM 6X12	132522	22,14	20 pcs.
S RAW 100.300 S	100	300	422	4 FLM 6X12	132539	41,56	20 pcs.

to form a closure for a dead end cable tray or for joining cable trays of different width
for terminating cable tray ends and for reducing and extending continuous cable trays



NOTES



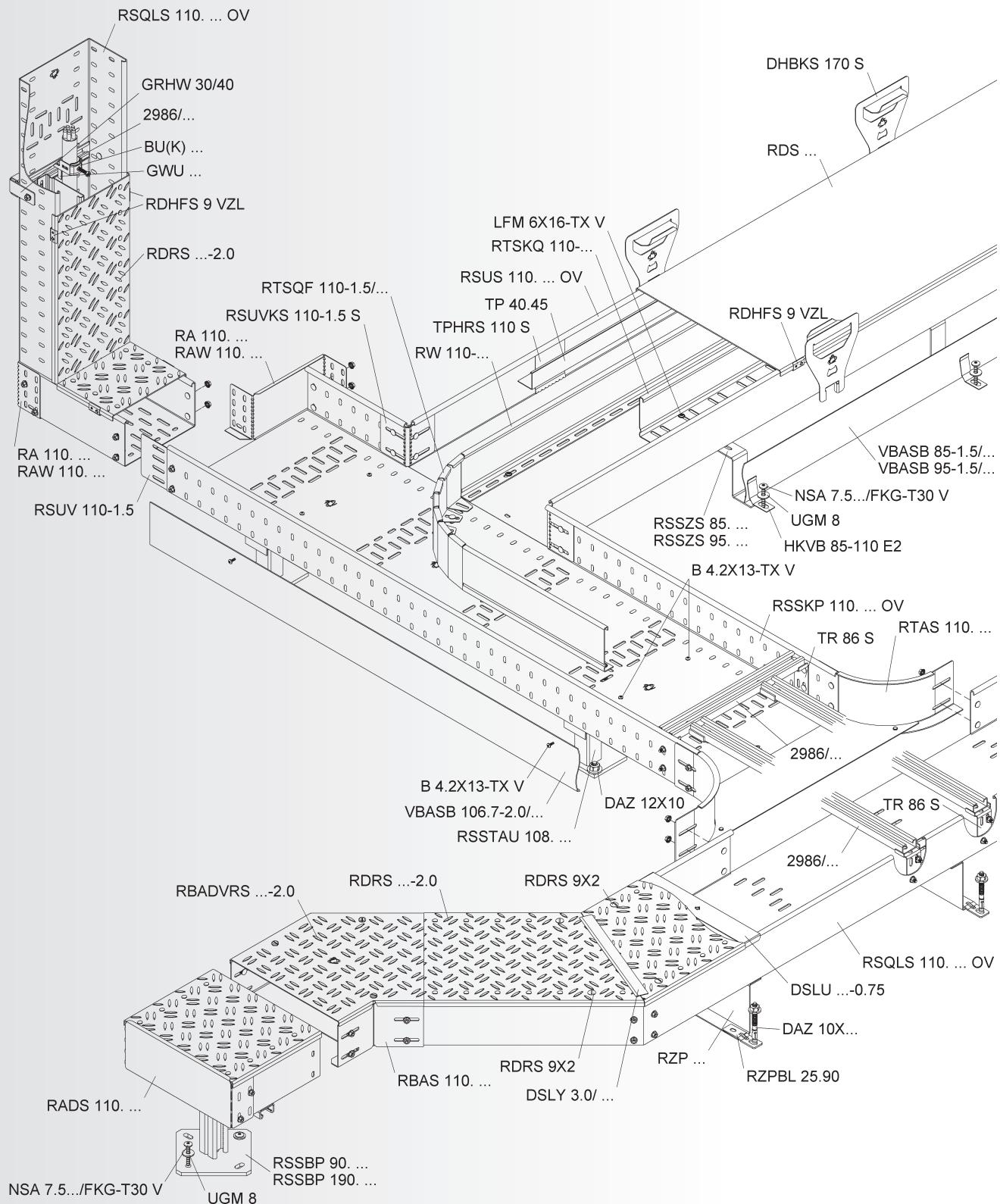
A large rectangular area filled with a light gray grid pattern, intended for handwritten notes.

WALKABLE CABLE TRAY SYSTEM

System overview of the side height

SYSTEM	★ Heavy Duty Cable Tray	RSSUP..., RSSKP...	Page 30
	★ Heavy Duty Cable Tray	RSUS..., RSQLS..., RSBS...	Page 30/31
ACCESSORIES	Universal Splice Plate	RSUV 110-1.5 E3, RSUVKS 110-1.5 S	Page 31
	★ Barrier Strip	RW...	Page 32
	Barrier Strip, heavy duty	RTSKQ...	Page 32
	Barrier Strip	RTSQF 110-1.5/1000 S, RW 85	Page 32
	Mounting Plate for Barrier Strip, Barrier Strip Profile	TPHRS 110 S, TP 40.45	Page 33
	Flexible Horizontal Elbow 0-90°	RBAVS...	Page 33
	Extension Horizontal Tee	RTAS...	Page 33
	Elbow 45°, Elbow 90°	RBAS..., RESS...	Page 34
	Horizontal Tee	RTSS...	Page 34
	Blind End	RADS...	Page 34
	Reducer / Blind End	RA...	Page 35
	Adjustable Splice / Reducer / Blind End	RAW...	Page 35
	Cover for Cable Tray	RDS...	Page 36
	Heavy Duty Cover, antislip	RDRS..., RDSRSL..., RDSRS...	Page 36
	Cover for Cable Tray	RDVS...	Page 37
	Heavy Duty Cover, antislip	RDVSRSL..., RDVSRSL...	Page 37
	Heavy Duty Chequer Plate, aluminium, antislip	RRA...	Page 37
	★ Cover Clamp	RDHFS 9 VZL	Page 38
	Lifter for Covers	DHBKS 170 S	Page 38
	Turnbolt Lock	RDRS...	Page 38
	Cover Protection Strip	DSLY 3.0/..., DSLZ 2.5/...	Page 39
	★ Cover Protection Strip	DSLU...	Page 39
	Neoprene Adhesive Tape	NKB 8X2	Page 40
	Cover for Flexible Horizontal Elbow	RBAVDS...	Page 40
	Cover for Flexible Horizontal Fitting, antislip	RBAVDSRS...	Page 40
	Cover for Horizontal Extension Tee	RTADVS...	Page 41
	Heavy Duty Cover for Horizontal Extension Tee, antislip	RTADVRS..., RTADVRSRS...	Page 41
	Cover for Elbow 45°	RBADVS...	Page 41
	Cover for Elbow 45°, antislip	RBADVRS..., RBADVRSRS...	Page 42
	Cover for Elbow 90°	RESDVS...	Page 42
	Cover for Elbow 90°, antislip	RESDVRs..., RESDVSRS...	Page 42/43
	Cover for Horizontal Tee	RTSDVS...	Page 43
	Cover for T-piece, antislip	RTSDVRS..., RTSDVRSRS...	Page 43
	Turnbolt Lock	RDRS 2 E3	Page 44
	Ground Terminal	MTEKM 4X10 E10, MTEKM 6X25 MS	Page 44
	Bearing	TR 86 S	Page 44
	C-profile 2986	2986/...	Page 45/49
	T-Connector	TV 40	Page 45
	Mushroom Head Bolt	FLM...	Page 45/49
	Floor Mounting Bracket 50 mm, 80 mm	RZP 50/..., RZP 80/...	Page 45/46
	Floor Mounting Bracket 100 mm, 120 mm	RZP 100/..., RZP 120/...	Page 46
	Floor Clamp	RZPBL 25.90	Page 46
	Floor Support	RSSZS...	Page 47
	Covering Panel	VVASB..., VVASB 106.7-2.0/3000 S	Page 47/48
	Retaining Clip Covering Sheet	HKVB 85-110 E2	Page 47
	Floor Stand 85 mm	RDB 85...	Page 47
	Covering Panel	VVASB 92.8-1.5/3000 S	Page 47
	Floor Support	RSSBP...	Page 48
	Floor Stand	RSSTAU...	Page 48
	Wire Mesh Tray Support Bracket	GRHW...	Page 49
	Large Diameter Washer	UGM...	Page 49
	Pan Head Screw	LFM 6X16-TX V	Page 49
	Pan Head Self Drilling Screws	B 4.2X13-TX V	Page 50
	Edge Protection Strip	RKBA...	Page 50





WALKABLE CABLE TRAY SYSTEM

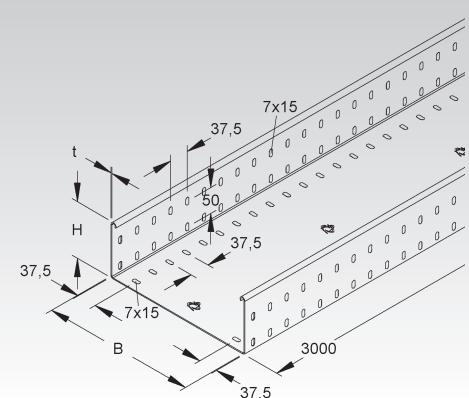
Heavy Duty Cable Tray

non-perforated, with pre-embossed stripping openings, splice plates not included

Model No.	Height H mm	Width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100	Smallest packaging unit
★ S RSSUP 110.100 S OV	110	100	2	180271	529,05	2 x 3 m
★ S RSSUP 110.200 S OV	110	200	2	180264	686,05	2 x 3 m
★ S RSSUP 110.300 S OV	110	300	2	180257	843,05	2 x 3 m
★ S RSSUP 110.400 S OV	110	400	2	180240	1.000,05	2 x 3 m
★ S RSSUP 110.500 S OV	110	500	2	180233	1.157,05	2 x 3 m
★ S RSSUP 110.600 S OV	110	600	2	180226	1.314,05	2 x 3 m

with splice plate perforations at both ends and stabilising longitudinal edges

Please order 2 universal splice plates RSUVKS 110... separately for each joint.



Heavy Duty Cable Tray

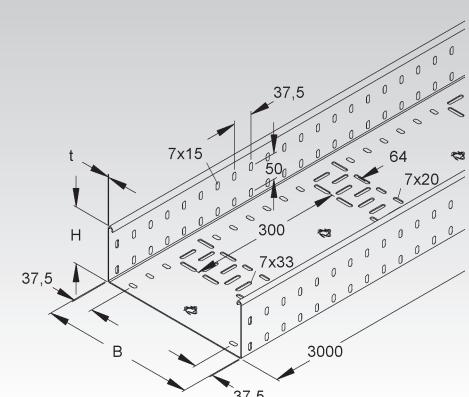
with combi perforation and pre-embossed stripping openings, splice plates not included

Model No.	Height H mm	Width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100	Smallest packaging unit
★ S RSSKP 110.100 S OV	110	100	2	180745	525,39	2 x 3 m
★ S RSSKP 110.200 S OV	110	200	2	180752	673,07	2 x 3 m
★ S RSSKP 110.300 S OV	110	300	2	180769	820,83	2 x 3 m
★ S RSSKP 110.400 S OV	110	400	2	180776	968,60	2 x 3 m
★ S RSSKP 110.500 S OV	110	500	2	180783	1.116,37	2 x 3 m
★ S RSSKP 110.600 S OV	110	600	2	180790	1.264,14	2 x 3 m

with combi perforation for stepless fixing of barrier strips

including holes for splice plates on both ends and stabilising longitudinal edges

Please order 2 universal splice plates RSUVKS 110... separately for each joint.



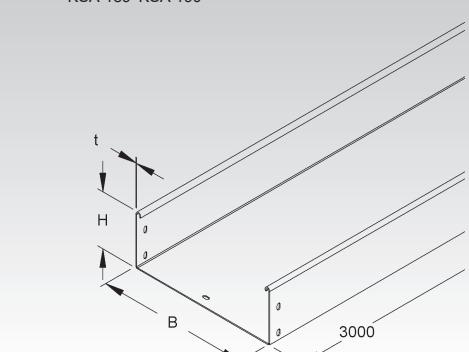
Heavy Duty Cable Tray

splice plates not included

Model No.	Height H mm	Width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S RSUS 110.100 OV	110	100	2	861606	530,29	2 x 3 m
S RSUS 110.200 OV	110	200	2	861620	687,29	2 x 3 m
S RSUS 110.300 OV	110	300	2	861644	844,21	2 x 3 m
S RSUS 110.400 OV	110	400	2	861668	1.001,12	2 x 3 m
S RSUS 110.500 OV	110	500	2	861675	1.158,12	2 x 3 m
S RSUS 110.600 OV	110	600	2	861699	1.315,12	2 x 3 m

including holes for splice plates on both ends, as well as stabilising rolled longitudinal edges

Please order 2 universal splice plates RSUVKS 110... for each joint extra.



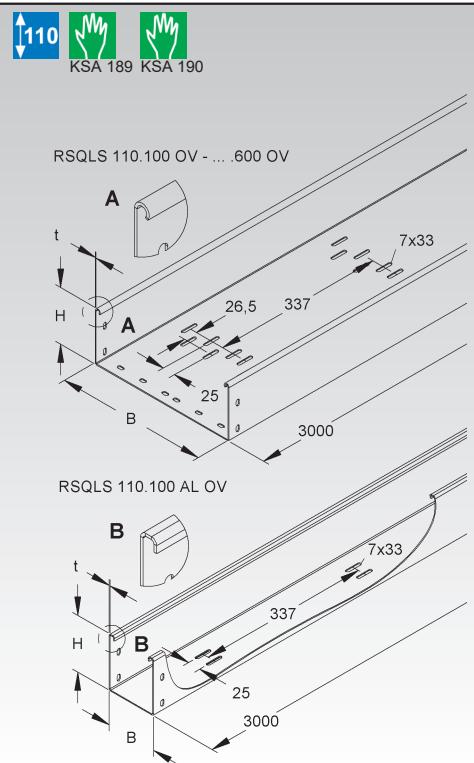
Heavy Duty Cable Tray

with special perforations, splice plate not included

	Model No.	Height H mm	Width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S	RSQLS 110.100 OV	110	100	2	861804	528,04	2 x 3 m
S	RSQLS 110.200 OV	110	200	2	861828	680,72	2 x 3 m
S	RSQLS 110.300 OV	110	300	2	861842	833,40	2 x 3 m
S	RSQLS 110.400 OV	110	400	2	861866	986,08	2 x 3 m
S	RSQLS 110.500 OV	110	500	2	861873	1.138,75	2 x 3 m
S	RSQLS 110.600 OV	110	600	2	861897	1.291,43	2 x 3 m
AL	RSQLS 110.100 AL OV	110	100	2	161591	184,14	2 x 3 m

with special perforations for infinitely variable fixing of barrier strips
including holes for splice plates on both ends, as well as stabilising rolled longitudinal edges

Please order 2 universal splice plates RSUV 110... / RSUVKS 110... for each joint extra.



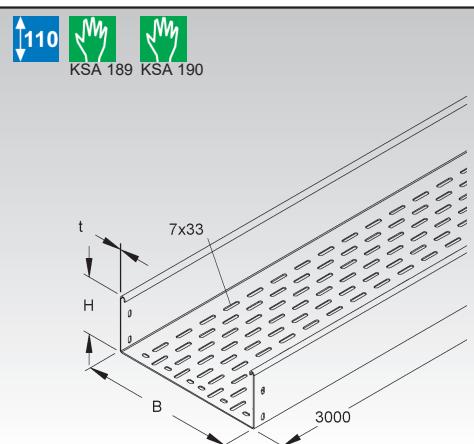
Heavy Duty Cable Tray

perforated, splice plates not included

	Model No.	Height H mm	Width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S	RSBS 110.100 OV	110	100	2	861705	517,20	2 x 3 m
S	RSBS 110.200 OV	110	200	2	861729	648,18	2 x 3 m
S	RSBS 110.300 OV	110	300	2	861743	779,17	2 x 3 m
S	RSBS 110.400 OV	110	400	2	861767	910,15	2 x 3 m
S	RSBS 110.500 OV	110	500	2	861774	1.041,14	2 x 3 m
S	RSBS 110.600 OV	110	600	2	861798	1.172,12	2 x 3 m

with floor perforations for infinitely variable fixing of barrier strips
including holes for splice plates on both ends, as well as stabilising rolled longitudinal edges

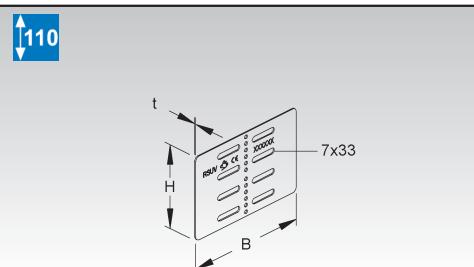
Please order 2 universal splice plates RSUVKS 110... for each joint extra.



Universal Splice Plate

	Model No.	Height H mm	Width B mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
E3	RSUV 110-1.5 E3	102	150	1,5	4 FLM 6X12 E3	089222	19,47	50 pcs.

for creating connections on continuous cable trays and for horizontal directional changes

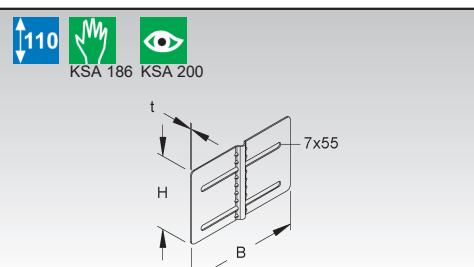


Universal Splice Plate

with edge protection

	Model No.	Height H mm	Width B mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RSUVKS 110-1.5 S	94	148	1,5	4 FLM 6X12	167197	18,33	50 pcs.

for creating connections on continuous cable trays and for horizontal directional changes
ensures additional protection when pulling cables



WALKABLE CABLE TRAY SYSTEM

Barrier Strip

with system perforation

Model No.	Height H mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 m	Smallest packaging unit
S RW 110-1.5 S	108	1,5	4 FLM 6X12	180165	171,37	3 m
S RW 110-2.0 S	108	2,0	4 FLM 6X12	180141	224,73	3 m

for infinitely variable partitioning of the tray width with additionally folded edges to protect the cable when it is being pulled, the continuous perforated folding allows a stepless mounting

Minimum number of dividers required to support the walkable covers:

for cover width 100 and 200 mm = none

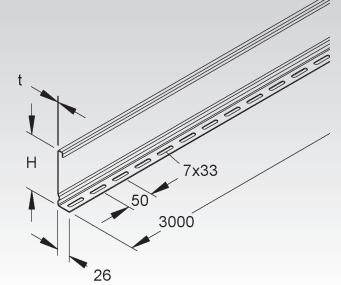
for cover width 300 mm and 400 mm = 1 piece with a maximum compartment width of 200 mm

for cover width 500 mm and 600 mm = 2 pieces with a maximum compartment width of 200 mm

Other lengths available on request.



KSA 197



Barrier Strip, heavy duty

with system perforation

Model No.	Height H mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 m	Smallest packaging unit
S RTSKQ 110-1.0 S	108	1,0	4 FLM 6X12	055210	126,29	3 m
S RTSKQ 110-1.5 S	108	1,5	4 FLM 6X12	055227	186,33	3 m
S RTSKQ 110-2.0 S	108	2,0	4 FLM 6X12	055234	247,81	3 m
AL RTSKQ 110-2.0 AL	108	2,0	4 FLM 6X12 E3	162680	85,61	3 m

for infinitely variable partitioning of the tray width with additionally folded edges to protect the cable when it is being pulled

Minimum number of barrier strips required to support the walkable covers:

for cover width 100 mm and 200 mm = none

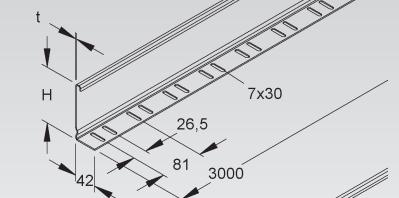
for cover width 300 mm and 400 mm = 1 piece with a maximum compartment width of 200 mm

for cover width 500 mm and 600 mm = 2 pieces with a maximum compartment width of 200 mm

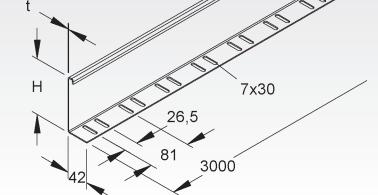
Other lengths available on request



RTSKQ 110... S



RTSKQ 110... AL



Barrier Strip

perforated, with elongated mounting holes

Model No.	Height H mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 m	Smallest packaging unit
S RTSQF 110-1.5/1000 S	108	1,5	3 FLM 6X12	134946	168,72	1 m

segmented for easy horizontal bending

for infinitely variable partitioning of the tray width with additionally folded edges to protect the cable when it is being pulled

for realising shorter lengths, easy burr-free cutting of the 50 mm segments is possible

the segmented pieces can be used individually or in pairs to provide additional support for the walkable cover e.g. in fittings

Minimum number of barrier strips required to support the walkable covers:

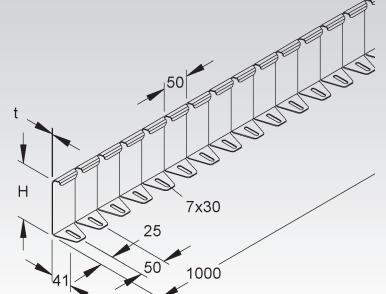
for cover width 100 and 200 mm = none

for cover width 300 mm and 400 mm = 1 piece with a maximum compartment width of 200 mm

for cover width 500 mm and 600 mm = 2 pieces with a maximum compartment width of 200 mm



KSA 185



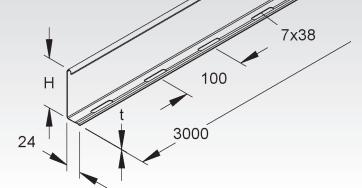
Barrier Strip

Model No.	Height H mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 m	Smallest packaging unit
S RW 85	80	0,9	4 FLM 6X12	237609	78,39	10 x 3 m

for the separation of wires and cables with different functions and/or voltages

This barrier strip is not suitable for supporting the walkable cover.

The continuous perforation allows a stepless mounting.

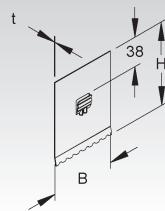


Mounting Plate for Barrier Strip

self-locking

Model No.	Height H mm	Width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S TPHRS 110 S	107	83	0,9	861156	6,27	20 pcs.

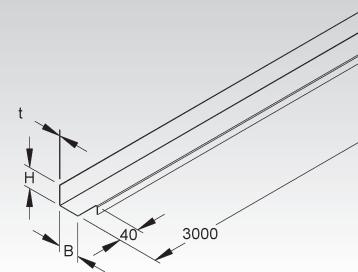
Used for: barrier strip profile TP 40.45



Barrier Strip Profile

Model No.	Height H mm	Width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S TP 40.45	40	45	1	861101	76,55	3 m

for making an extra run of cables along the side rail, ex. for phone or fibre cables

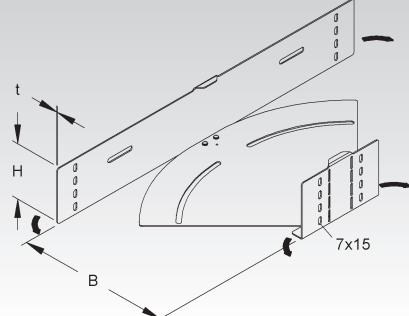


Flexible Horizontal Elbow 0-90°

with non-perforated side rail, but with connector holes

Model No.	Height H mm	Inside dimensions width B mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RBAVS 110.100	110	102	2	8 FLM 6X12	924042	126,9	1 pc.
S RBAVS 110.200	110	202	2	8 FLM 6X12	924066	197,1	1 pc.
S RBAVS 110.300	110	302	2	8 FLM 6X12	924080	294,2	1 pc.
S RBAVS 110.400	110	402	2	8 FLM 6X12	924103	409,9	1 pc.
S RBAVS 110.500	110	502	2	8 FLM 6X12	924127	559,4	1 pc.
S RBAVS 110.600	110	602	2	8 FLM 6X12	924141	728,9	1 pc.

for flexibly adjustable horizontal guidance at an angle of 0-90°

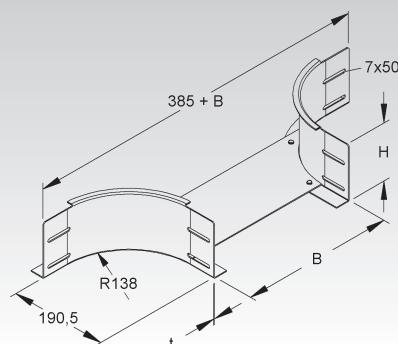


Extension Horizontal Tee

with non-perforated side rail, with integrated splice plates

Model No.	Height H mm	Inside dimensions width B mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RTAS 110.100	110	100	2	8 FLM 6X12	862801	182,77	1 pc.
S RTAS 110.200	110	200	2	8 FLM 6X12	862825	203,50	1 pc.
S RTAS 110.300	110	300	2	8 FLM 6X12	862849	224,22	1 pc.
S RTAS 110.400	110	400	2	8 FLM 6X12	862856	244,95	1 pc.
S RTAS 110.500	110	500	2	8 FLM 6X12	862863	265,67	1 pc.
S RTAS 110.600	110	600	2	8 FLM 6X12	862887	286,39	1 pc.

for creating horizontal 90° T-branches of cable trays of different and the same width



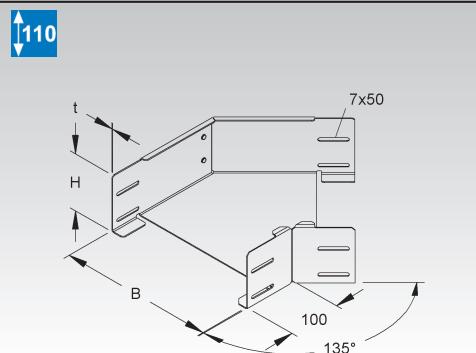
WALKABLE CABLE TRAY SYSTEM

Elbow 45°

with non-perforated side rail, with integrated splice plates

	Model No.	Height H mm	Inside dimensions width B mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RBAS 110.100	110	100	2	8 FLM 6X12	862504	121,79	1 pc.
S	RBAS 110.200	110	200	2	8 FLM 6X12	862528	169,23	1 pc.
S	RBAS 110.300	110	300	2	8 FLM 6X12	862542	229,67	1 pc.
S	RBAS 110.400	110	400	2	8 FLM 6X12	862566	303,39	1 pc.
S	RBAS 110.500	110	500	2	8 FLM 6X12	862573	389,58	1 pc.
S	RBAS 110.600	110	600	2	8 FLM 6X12	862597	489,04	1 pc.

for creating 45° horizontally angled cable tray run

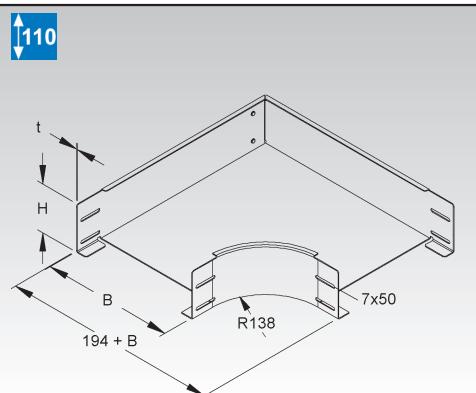


Elbow 90°

with non-perforated side rail, with integrated splice plates

	Model No.	Height H mm	Inside dimensions width B mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RESS 110.100	110	100	2	8 FLM 6X12	862702	255,75	1 pc.
S	RESS 110.200	110	200	2	8 FLM 6X12	862726	381,09	1 pc.
S	RESS 110.300	110	300	2	8 FLM 6X12	862740	537,84	1 pc.
S	RESS 110.400	110	400	2	8 FLM 6X12	862764	725,98	1 pc.
S	RESS 110.500	110	500	2	8 FLM 6X12	862771	945,53	1 pc.
S	RESS 110.600	110	600	2	8 FLM 6X12	862795	1.196,47	1 pc.

for creating horizontal 90° elbow connections

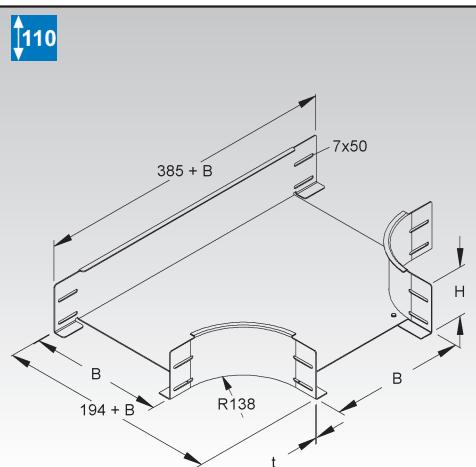


Horizontal Tee

with non-perforated side rail, with integrated splice plates

	Model No.	Height H mm	Inside dimensions width B mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RTSS 110.100	110	100	2	12 FLM 6X12	862900	333,04	1 pc.
S	RTSS 110.200	110	200	2	12 FLM 6X12	862924	460,75	1 pc.
S	RTSS 110.300	110	300	2	12 FLM 6X12	862948	619,86	1 pc.
S	RTSS 110.400	110	400	2	12 FLM 6X12	862962	810,36	1 pc.
S	RTSS 110.500	110	500	2	12 FLM 6X12	862979	1.032,27	1 pc.
S	RTSS 110.600	110	600	2	12 FLM 6X12	862993	1.285,58	1 pc.

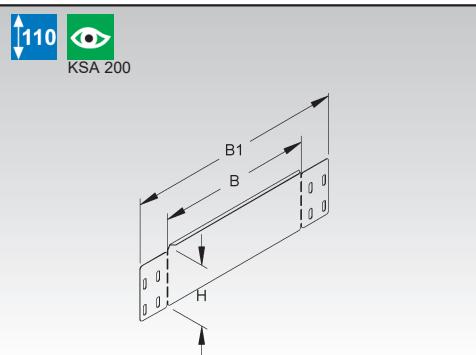
for horizontal tee connections of cable trays with identical width



Blind End, with Cover Lock

	Model No.	Height H mm	Width B mm	Width B1 mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RADS 110.100 S	117,5	100	222	4 FLM 6X12	171170	22,43	20 pcs.
S	RADS 110.200 S	117,5	200	322	4 FLM 6X12	171187	32,15	20 pcs.
S	RADS 110.300 S	117,5	300	422	4 FLM 6X12	171194	41,88	20 pcs.
S	RADS 110.400 S	117,5	400	522	4 FLM 6X12	171217	51,60	20 pcs.
S	RADS 110.500 S	117,5	500	622	4 FLM 6X12	171224	61,32	20 pcs.
S	RADS 110.600 S	117,5	600	722	4 FLM 6X12	171231	71,05	20 pcs.

for terminating walkable cable tray, with elevated flange to prevent covers from sliding lengthwise

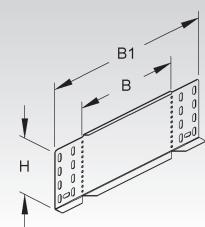


Reducer / Blind End

	Model No.	Height H mm	Width B mm	Width B1 mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RA 110.200	110	200	322	4 FLM 6X12	764402	34,39	20 pcs.
S	RA 110.400	110	400	522	4 FLM 6X12	764808	55,38	20 pcs.
S	RA 110.500	110	500	622	4 FLM 6X12	764907	65,87	20 pcs.
S	RA 110.600	110	600	722	4 FLM 6X12	858606	76,37	20 pcs.

for terminating cable tray ends and for reducing and extending continuous cable trays

↑110

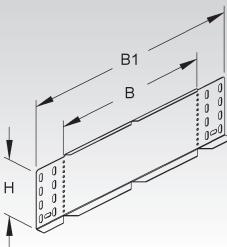


Adjustable Splice / Reducer / Blind End

	Model No.	Height H mm	Width B mm	Width B1 mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RAW 110.100	110	100	222	4 FLM 6X12	764204	23,60	20 pcs.
S	RAW 110.300	110	300	422	4 FLM 6X12	764600	44,59	20 pcs.

to form a closure for a dead end cable tray or for joining cable trays of different width
for terminating cable tray ends and for reducing and extending continuous cable trays

↑110



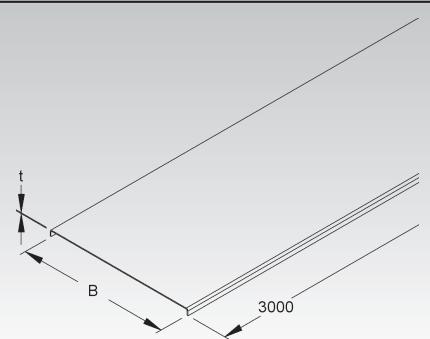
WALKABLE CABLE TRAY SYSTEM ACCESSORIES

Cover for Cable Tray

	Model No.	Inside dimensions width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S	RDS 100	105	2	936069	201,63	2 x 3 m
S	RDS 200	205	2	936083	358,60	2 x 3 m
S	RDS 300	305	2	936106	515,60	2 x 3 m
S	RDS 400	405	2	936120	672,60	2 x 3 m
S	RDS 500	505	2	936144	829,60	2 x 3 m
S	RDS 600	605	2	936168	986,60	2 x 3 m

To support the walkable cover, please observe the minimum number of barrier strips (see barrier strips RTSKQ..., RTSQF..., RWTS... and RW....-...).

The RDHFS 9 VZL cover clamp is suitable for fixing the cover in place.



Heavy Duty Cover, antislip (DIN 51130 class R10)

with embossed notches for turnbolt installation

	Model No.	Inside dimensions width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S	RDRS 100-2.0 S	105	3,25	149421	201,91	3 m
S	RDRS 200-2.0 S	205	3,25	149438	359,19	3 m
S	RDRS 300-2.0 S	305	3,25	149445	516,48	3 m
S	RDRS 400-2.0 S	405	3,25	149452	673,78	3 m
S	RDRS 500-2.0 S	505	3,25	149469	831,07	3 m
S	RDRS 600-2.0 S	605	3,25	149476	988,36	3 m
AL	RDRS 100-2.0 AL	105	3,25	161577	69,45	3 m

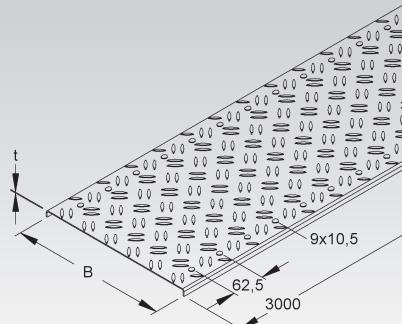
pre-marked breakouts at a grid size of 62,5 mm enable fixing in every cutting situation using turnbolt locks

To support the walkable cover, please observe the minimum number of barrier strips (see barrier strips RTSKQ..., RTSQF..., RWTS... and RW....-...).

The material thickness consists of 2 mm sheet steel and 1,25 mm corrugation height.

RDRS 9X2 turnbolt locks are not included.

In addition, the RDHFS 9 VZL cover clamp is suitable for fixing the cover in place.



Heavy Duty Cover, antislip (DIN 51130 class R9)

with full-surface, lighter aluminum chequer plate

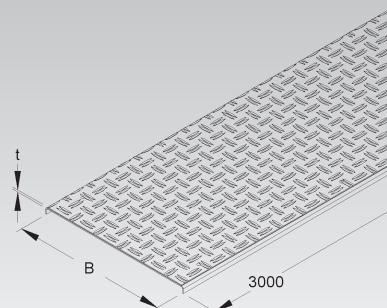
	Model No.	Inside dimensions width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S	RDSRSL 100	105	4	936182	241,46	2 x 3 m
S	RDSRSL 200	205	4	936205	438,55	2 x 3 m
S	RDSRSL 300	305	4	936229	635,71	2 x 3 m
S	RDSRSL 400	405	4	936243	832,87	2 x 3 m
S	RDSRSL 500	505	4	936267	1.030,03	2 x 3 m
S	RDSRSL 600	605	4	936281	1.227,19	2 x 3 m

The material thickness consists of 2 mm sheet steel, 1,5 mm aluminium sheet support and 0,5 mm corrugation height.

To support the walkable cover, please observe the minimum number of barrier strips (see barrier strips RTSKQ..., RTSQF..., RWTS... and RW....-...).

The RDHFS 9 VZL cover clamp is suitable for fixing the cover in place.

Other antislip covers available on request



Heavy Duty Cover, antislip (DIN 51130 class R10)

with full-surface, heavy duty aluminum chequer plate

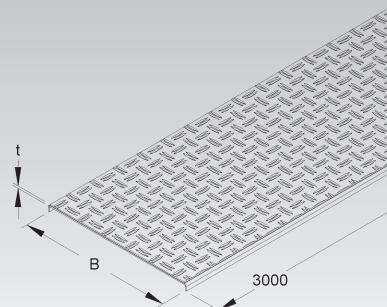
	Model No.	Inside dimensions width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S	RDSRS 100	105	6	936304	269,48	2 x 3 m
S	RDSRS 200	205	6	936328	494,51	2 x 3 m
S	RDSRS 300	305	6	936342	719,61	2 x 3 m
S	RDSRS 400	405	6	936366	944,71	2 x 3 m
S	RDSRS 500	505	6	936380	1.169,81	2 x 3 m
S	RDSRS 600	605	6	936403	1.394,91	2 x 3 m

The material thickness consists of 2 mm sheet steel, 2,5 mm aluminium sheet support and 1,5 mm corrugation height.

To support the walkable cover, please observe the minimum number of barrier strips (see barrier strips RTSKQ..., RTSQF..., RWTS... and RW....-...).

The RDHFS 9 VZL cover clamp is suitable for fixing the cover in place.

Other antislip covers available on request

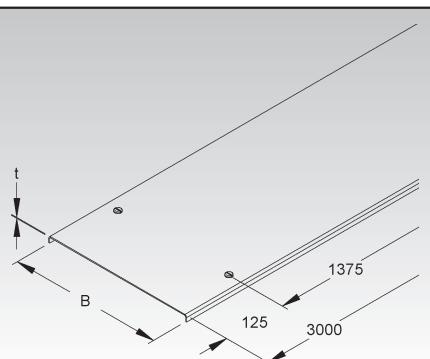


Cover for Cable Tray

with preinstalled turnbolt locks

	Model No.	Inside dimensions width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S	RDVS 100	105	2	855605	203,8	2 x 3 m
S	RDVS 200	205	2	855629	360,8	2 x 3 m
S	RDVS 300	305	2	855643	517,8	2 x 3 m
S	RDVS 400	405	2	855667	674,8	2 x 3 m
S	RDVS 500	505	2	855681	831,8	2 x 3 m
S	RDVS 600	605	2	855704	988,8	2 x 3 m

To support the walkable cover, please observe the minimum number of barrier strips (see barrier strips RTSKQ..., RTSQF..., RWTS... and RW....-...).



Heavy Duty Cover, antislip (DIN 51130 class R9)

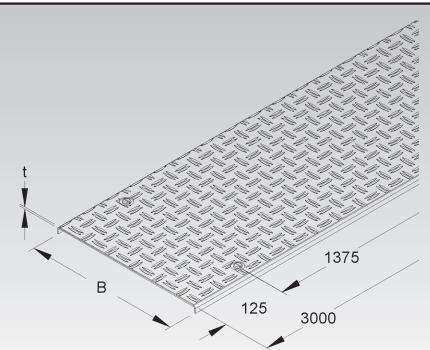
with full-surface, lighter aluminum chequer plate, with preinstalled turnbolt locks

	Model No.	Inside dimensions width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S	RDVSRSL 100	105	4	917464	243,32	3 m
S	RDVSRSL 200	205	4	917488	440,41	3 m
S	RDVSRSL 300	305	4	917501	637,57	3 m
S	RDVSRSL 400	405	4	917525	834,73	3 m
S	RDVSRSL 500	505	4	917549	1.031,89	3 m
S	RDVSRSL 600	605	4	917563	1.229,05	3 m

The material thickness consists of 2 mm sheet steel, 1,5 mm aluminium sheet support and 0,5 mm corrugation height.

To support the walkable cover, please observe the minimum number of barrier strips (see barrier strips RTSKQ..., RTSQF..., RWTS... and RW....-...).

Other antislip covers available on request



Heavy Duty Cover, antislip (DIN 51130 class R10)

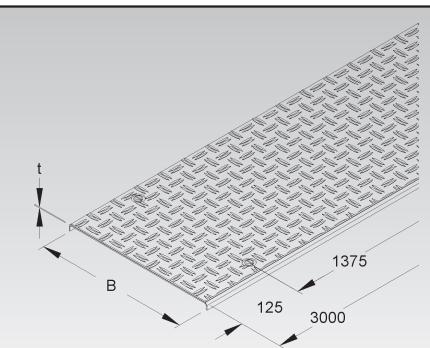
with reinforced, pre-assembled turning bolt locks and full-surface, heavy aluminium chequer plate support

	Model No.	Inside dimensions width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S	RDVRS 100	105	6	862108	271,09	3 m
S	RDVRS 200	205	6	862122	496,12	3 m
S	RDVRS 300	305	6	862146	721,22	3 m
S	RDVRS 400	405	6	862160	946,13	3 m
S	RDVRS 500	505	6	862177	1.171,42	3 m
S	RDVRS 600	605	6	862191	1.396,52	3 m

The material thickness consists of 2 mm sheet steel, 2,5 mm aluminium sheet support and 1,5 mm corrugation height.

To support the walkable cover, please observe the minimum number of barrier strips (see barrier strips RTSKQ..., RTSQF..., RWTS... and RW....-...).

Other antislip covers available on request



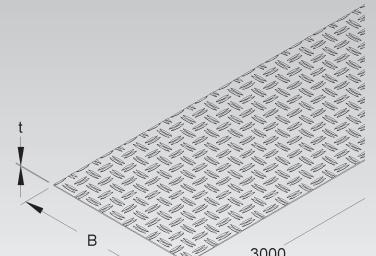
Heavy Duty Chequer Plate, aluminium, antislip (DIN 51130 class R10)

antislip plate for retrofitting covers

	Model No.	Width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
AL	RRA 100-2.5 ALO	100	4	862306	68,29	3 m
AL	RRA 200-2.5 ALO	200	4	862320	136,39	3 m
AL	RRA 300-2.5 ALO	300	4	862344	204,49	3 m
AL	RRA 400-2.5 ALO	400	4	862368	272,59	3 m
AL	RRA 500-2.5 ALO	500	4	862375	340,69	3 m
AL	RRA 600-2.5 ALO	600	4	862399	408,79	3 m

for refitting steel plate covers

The material thickness consists of 2,5 mm aluminium sheet support and 1,5 mm corrugation height.



WALKABLE CABLE TRAY SYSTEM ACCESSORIES

Cover Clamp

Model No.	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
RDHFS 9 VZL	182985	1,07	60 pcs.

for fixing the cover for fittings with adjustable angles and for cable tray covers without turnbolt locks

Requirement:

Cover short pieces < 200 mm min. 2 cover clamps

Cover short pieces ≥ 200 - 1000 mm min. 4 cover clamps

Cover pieces ≥ 1000 mm min. 6 cover clamps

Used for: Cable tray cover RDS..., RDRS..., RDSRSL..., RDSRS..., fitting cover RBAVDS... and RBAVDSRS... as well as for cover for vertical cable ladder STVW..., STVWA... and STVFA...

Due to external influences, e.g. wind load, outdoor use is only possible with additional securing (self-tapping screws, steel tape etc.).

When fixing it must be ensured that a minimum distance of ≥ 50 mm from the beginning and end of the ceiling is maintained.

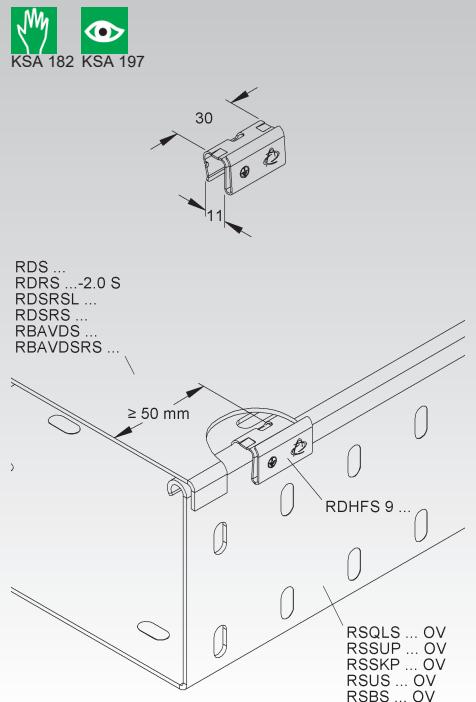
Due to the special shape/contour the potential equalisation is guaranteed.

The version ...VZL combines the advantages of the versions ...V and ... F due to its special surface finish.

Construction improvements lead to a form-fitting and captive fit on the cover.

In the mounted state, especially with anti-slip covers, displacement on the cable tray in the horizontal/vertical (≤ 150 N) direction is prevented.

The cover clamp RDHFS 9 VZL allows a one-sided opening of the cover up to max. 20° and thus enables an additional subsequent installation or inspection of cables.



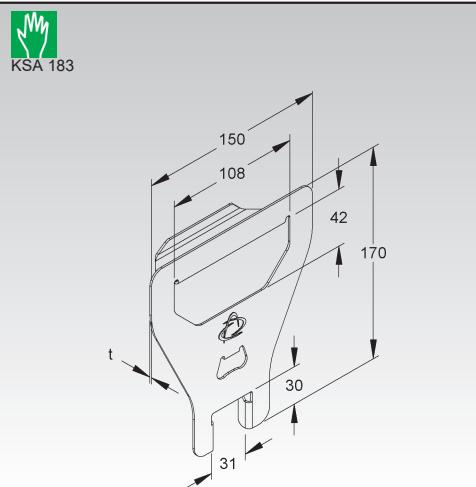
Lifter for Covers

Model No.	Material thickness (t) mm	EAN code	Weight in kg per 100 Pair	Smallest packaging unit
DHBKS 170 S	1,5	158645	39,97	1 pair

for quick disassembly of covers with cover retaining spring

Used for: cable tray covers RDS..., RDRS..., RDSRSL..., RDSRS... as well as fitting covers RBAVDS... and RBAVDSRS...

To allow easy lifting of the covers, 2 lifters for covers must be used simultaneously.



Turnbolt Lock

reinforced design, incl. locknut acc. to DIN EN ISO 10511

Model No.	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
RDRS 9X2	2	1 FL 6X12-S V, 1 SMS 6 V	269884	1,84	20 pcs.
RDRS 9X2 E3	2	1 FL 6X12-S E3, 1 SMS 6 E3	143702	1,86	20 pcs.

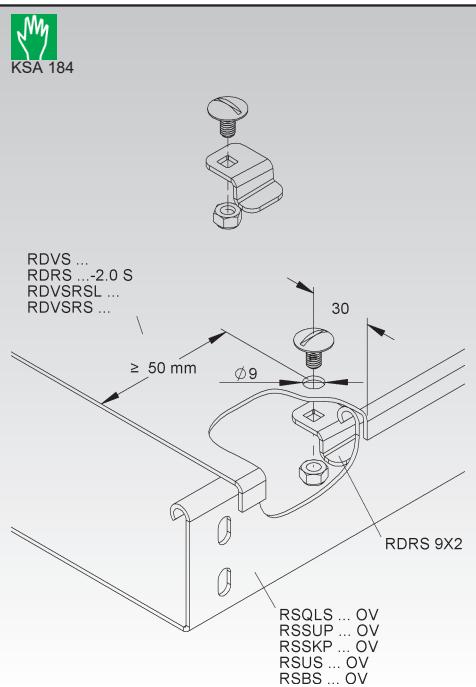
for additional requirements

Used for: cable tray covers RDVS..., RDRS..., RDVSRL... und RDVSR...

It is important to note that a minimum clearance of ≥ 50 mm to the start/end of the cover must be maintained when fixing.

Not sufficient for securing covers to tray installed vertically or sideways nor for securing covers against windloads. Please use self tapping screws, steel cable ties or cover-hinges in addition.

Delivery unassembled loose



Cover Protection Strip

Y-shaped

	Model No.	Width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	DSLY 3.0/100 S	95	0,5	133611	2,05	1 pc.
S	DSLY 3.0/200 S	195	0,5	133628	4,22	1 pc.
S	DSLY 3.0/300 S	295	0,5	133635	6,38	1 pc.
S	DSLY 3.0/400 S	395	0,5	133642	8,54	1 pc.
S	DSLY 3.0/500 S	495	0,5	133659	10,70	1 pc.
S	DSLY 3.0/600 S	595	0,5	133666	12,87	1 pc.
S	DSLY 3.0/810 S	810	0,5	133673	17,51	1 pc.

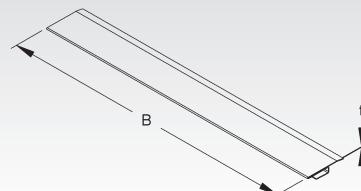
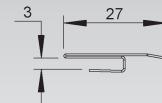
for covering areas with right-angled joints, as well as for angled edges on the cable tray cover

Used for: RDRS... cable tray covers, as well as for RTADVRS..., RBADVRS..., RESDVRS... and RTSDVRS... fitting covers

This cover protection strip was specially designed for the RDRS... cable tray covers.



KSA 195



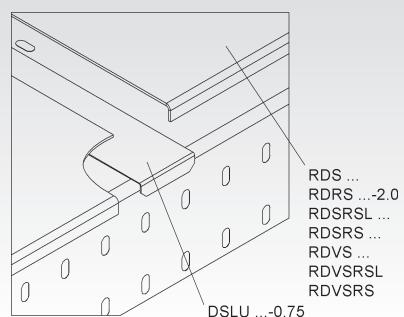
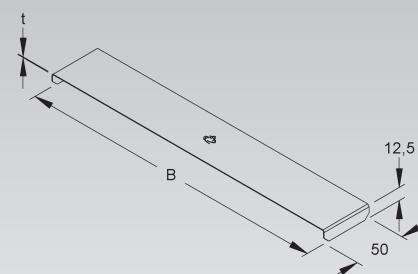
Cover Protection Strip

U-shaped

	Model No.	Width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
★ S	DSLU 100-0.75 S	104	0,75	179954	3,69	1 pc.
★ S	DSLU 200-0.75 S	204	0,75	179961	6,63	1 pc.
★ S	DSLU 300-0.75 S	304	0,75	179978	9,58	1 pc.
★ S	DSLU 400-0.75 S	404	0,75	179985	12,52	1 pc.
★ S	DSLU 500-0.75 S	504	0,75	181131	15,46	1 pc.
★ S	DSLU 600-0.75 S	604	0,75	179992	18,41	1 pc.

for cost-effective, form-fit covering under right-angled cover joints

Used for: all covers of the walkable cable tray system.



Cover Protection Strip

Z-shaped

	Model No.	Width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	DSLZ 2.5/100 S	75	0,5	102853	1,22	1 pc.
S	DSLZ 2.5/200 S	175	0,5	102846	2,84	1 pc.
S	DSLZ 2.5/300 S	275	0,5	114139	4,46	1 pc.
S	DSLZ 2.5/400 S	375	0,5	102839	6,09	1 pc.
S	DSLZ 2.5/500 S	475	0,5	131488	7,71	1 pc.
S	DSLZ 2.5/600 S	575	0,5	102822	9,33	1 pc.
S	DSLZ 2.5/805 S	805	0,5	131495	13,07	1 pc.

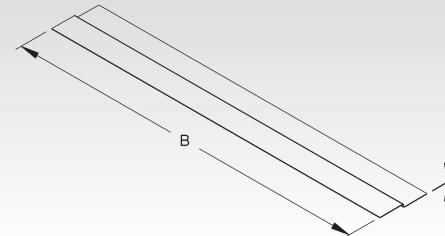
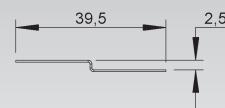
for covering areas with right-angled joints, as well as for angled edges on the cable tray cover

Used for: RDSRS..., RDVRS... cable tray covers, as well as RBAVDSRS..., RTADVRS..., RBADVRS..., RESDVRS... and RTSDVRS... fitting covers

This cover protection strip was designed for all covers with an aluminum chequer plate surface.



KSA 195



WALKABLE CABLE TRAY SYSTEM ACCESSORIES

Neoprene Adhesive Tape, black

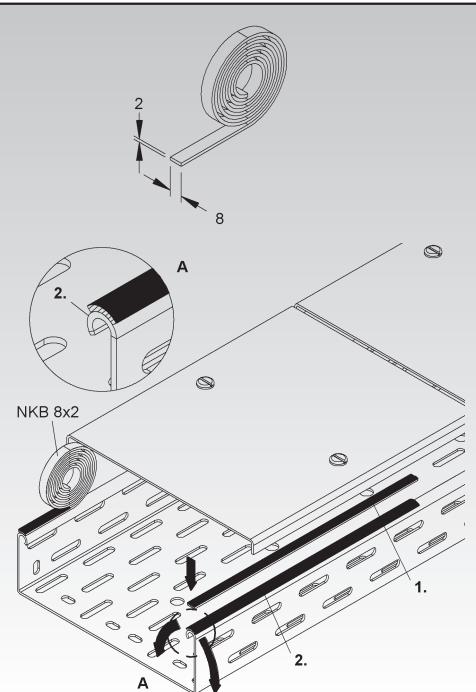
self-adhesive on one side

Model No.	Height H mm	Width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
K07 NKB 8X2	2	8	872091	0,1	1 pc.

for attaching to rolled straight edges of cable trays for short length covers and all start and end pieces for covers to prevent slippage of the covers in a longitudinal direction

1. - 2. Cut the neoprene tape to the required dimensions for the start or end piece for the cover, then attach the adhesive side to the stabilising rolled straight edges of the cable tray.

Delivered in 10 meter length



Cover for Flexible Horizontal Elbow

Model No.	Inside dimensions width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RBAVDS 100	105	2	924165	64,92	1 pc.
S RBAVDS 200	205	2	924189	196,39	1 pc.
S RBAVDS 300	305	2	924202	397,16	1 pc.
S RBAVDS 400	405	2	924226	666,45	1 pc.
S RBAVDS 500	505	2	924240	1.005,50	1 pc.
S RBAVDS 600	605	2	924264	1.412,82	1 pc.

for flexibly adjustable horizontal guidance at an angle of 0-90°, overlapping joints

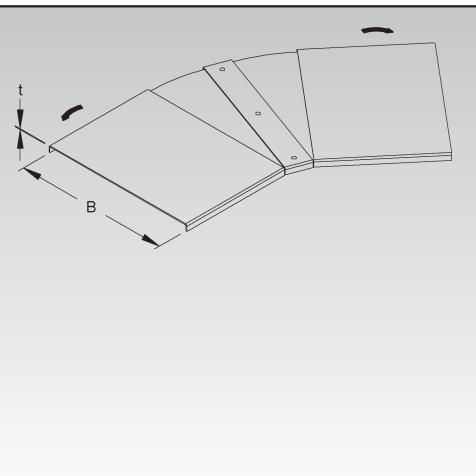
To support the walkable cover, please observe the minimum number of barrier strips (see barrier strips RTSKQ..., RTSQF..., RWTS... and RW....-...).

Used for: flexible horizontal elbow RBAVS...

The cover is exclusively fitted in place using the RDHFS 9 VZL cover clamp.

It is important to note that a minimum clearance of 50 mm to the start/end of the cover must be maintained when fixing.

Four RDHFS 9 VZL cover clips required per cover. Please order separately.



Cover for Flexible Horizontal Fitting, antislip (DIN 51130 class R10)

with heavy-duty aluminium chequer plate

Model No.	Inside dimensions width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RBAVDSRS 100	105	6	925322	76,27	1 pc.
S RBAVDSRS 200	205	6	925346	237,67	1 pc.
S RBAVDSRS 300	305	6	925360	487,82	1 pc.
S RBAVDSRS 400	405	6	925384	825,37	1 pc.
S RBAVDSRS 500	505	6	925407	1.252,30	1 pc.
S RBAVDSRS 600	605	6	925421	1.766,36	1 pc.

for flexibly adjustable horizontal guidance at an angle of 0-90°, overlapping joints

The material thickness consists of 2 mm sheet steel, 2,5 mm aluminium sheet support and 1,5 mm corrugation height.

To support the walkable cover, please observe the minimum number of barrier strips (see barrier strips RTSKQ..., RTSQF..., RWTS... and RW....-...).

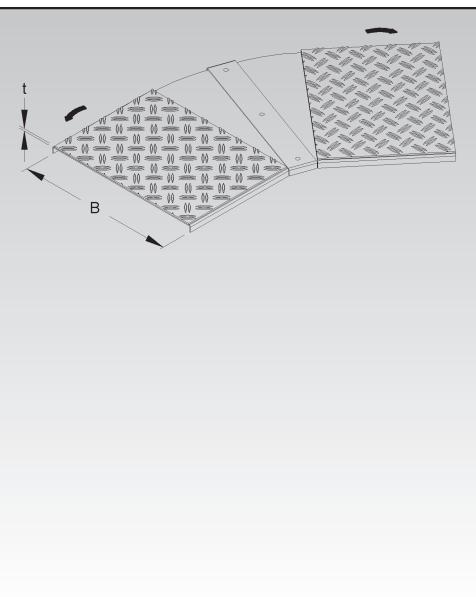
Used for: flexible horizontal elbow RBAVS...

The cover is exclusively fitted in place using the RDHFS 9 VZL cover clamp.

It is important to note that a minimum clearance of 50 mm to the start/end of the cover must be maintained when fixing.

Other antislip covers available on request

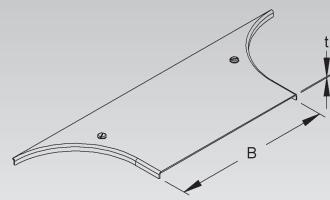
Four RDHFS 9 VZL cover clips required per cover. Please order separately.



Cover for Horizontal Extension Tee

with pre-assembled turning bolt locks

	Model No.	Inside dimensions width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RTADVS 100	105	2	863600	55,89	1 pc.
S	RTADVS 200	205	2	863624	86,20	1 pc.
S	RTADVS 300	305	2	863648	116,50	1 pc.
S	RTADVS 400	405	2	863655	146,80	1 pc.
S	RTADVS 500	505	2	863662	177,10	1 pc.
S	RTADVS 600	605	2	863686	207,40	1 pc.



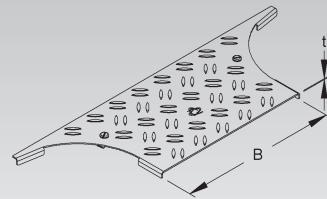
To support the walkable cover, please observe the minimum number of barrier strips (see barrier strips RTSKQ..., RTSQF..., RWTS... and RW....-...).

Used for: cable tray extension tee RTAS...

Heavy Duty Cover for Horizontal Extension Tee, antislip

with embossed notches for turbolt installation

	Model No.	Inside dimensions width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RTADVRS 100-2.0 S	105	3,25	133093	53,64	1 pc.
S	RTADVRS 200-2.0 S	205	3,25	133109	84,99	1 pc.
S	RTADVRS 300-2.0 S	305	3,25	133116	116,34	1 pc.
S	RTADVRS 400-2.0 S	405	3,25	133123	147,69	1 pc.
S	RTADVRS 500-2.0 S	505	3,25	133130	179,04	1 pc.
S	RTADVRS 600-2.0 S	605	3,25	133147	210,39	1 pc.



To support the walkable cover, please observe the minimum number of barrier strips (see barrier strips RTSKQ..., RTSQF..., RWTS... and RW....-...).

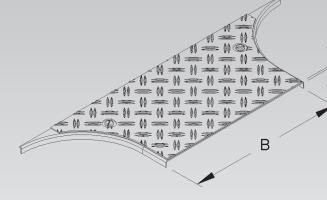
The material thickness consists of 2 mm sheet steel and 1,25 mm corrugation height.

Used for: cable tray extension tee RTAS...

Heavy Duty Cover for Horizontal Extension Tee, antislip

with turbolt locks and heavy duty aluminum chequer plate

	Model No.	Inside dimensions width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RTADVRS 100	105	6	863808	74,10	1 pc.
S	RTADVRS 200	205	6	863822	117,48	1 pc.
S	RTADVRS 300	305	6	863846	160,86	1 pc.
S	RTADVRS 400	405	6	863853	204,24	1 pc.
S	RTADVRS 500	505	6	863860	247,62	1 pc.
S	RTADVRS 600	605	6	863884	291,00	1 pc.



The material thickness consists of 2 mm sheet steel, 2,5 mm aluminium sheet support and 1,5 mm corrugation height.

To support the walkable cover, please observe the minimum number of barrier strips (see barrier strips RTSKQ..., RTSQF..., RWTS... and RW....-...).

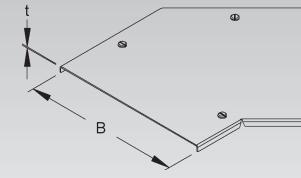
Used for: cable tray extension tee RTAS...

Other antislip covers available on request

Cover for Elbow 45°

with pre-assembled turning bolt locks

	Model No.	Inside dimensions width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RBADVS 100	105	2	863105	49,77	1 pc.
S	RBADVS 200	205	2	863129	102,68	1 pc.
S	RBADVS 300	305	2	863143	168,59	1 pc.
S	RBADVS 400	405	2	863167	247,51	1 pc.
S	RBADVS 500	505	2	863174	339,43	1 pc.
S	RBADVS 600	605	2	863198	444,36	1 pc.



To support the walkable cover, please observe the minimum number of barrier strips (see barrier strips RTSKQ..., RTSQF..., RWTS... and RW....-...).

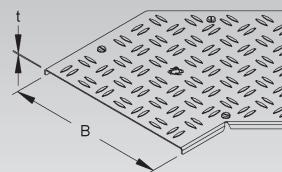
Used for: cable tray elbow 45° RBAS...

WALKABLE CABLE TRAY SYSTEM ACCESSORIES

Cover for Elbow 45°, antislip (DIN 51130 class R10)

with embossed notches for turnbolt installation

	Model No.	Inside dimensions width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RBADVRS 100-2.0 S	105	3,25	133215	49,81	1 pc.
S	RBADVRS 200-2.0 S	205	3,25	133222	102,76	1 pc.
S	RBADVRS 300-2.0 S	305	3,25	133239	168,79	1 pc.
S	RBADVRS 400-2.0 S	405	3,25	133246	247,87	1 pc.
S	RBADVRS 500-2.0 S	505	3,25	133253	339,93	1 pc.
S	RBADVRS 600-2.0 S	605	3,25	133260	445,04	1 pc.



To support the walkable cover, please observe the minimum number of barrier strips (see barrier strips RTSKQ..., RTSQF..., RWTS... and RW....-...).

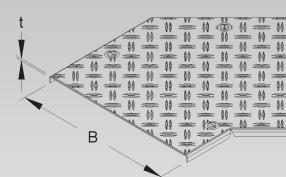
The material thickness consists of 2 mm sheet steel and 1,25 mm corrugation height.

Used for: cable tray elbow 45° RBAS...

Cover for Elbow 45°, antislip (DIN 51130 class R10)

with turnbolt locks and heavy duty aluminum chequer plate

	Model No.	Inside dimensions width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RBADVSR 100	105	6	863303	65,95	1 pc.
S	RBADVSR 200	205	6	863327	141,00	1 pc.
S	RBADVSR 300	305	6	863341	234,76	1 pc.
S	RBADVSR 400	405	6	863365	347,10	1 pc.
S	RBADVSR 500	505	6	863372	478,09	1 pc.
S	RBADVSR 600	605	6	863396	627,73	1 pc.



The material thickness consists of 2 mm sheet steel, 2,5 mm aluminium sheet support and 1,5 mm corrugation height.

To support the walkable cover, please observe the minimum number of barrier strips (see barrier strips RTSKQ..., RTSQF..., RWTS... and RW....-...).

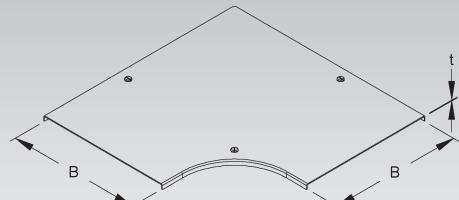
Used for: cable tray elbow 45° RBAS...

Other antislip covers available on request

Cover for Elbow 90°

with pre-assembled turning bolt locks

	Model No.	Inside dimensions width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RESDVS 100	105	2	863501	103,56	1 pc.
S	RESDVS 200	205	2	863525	215,43	1 pc.
S	RESDVS 300	305	2	863549	358,69	1 pc.
S	RESDVS 400	405	2	863563	533,35	1 pc.
S	RESDVS 500	505	2	863570	739,42	1 pc.
S	RESDVS 600	605	2	863594	976,88	1 pc.



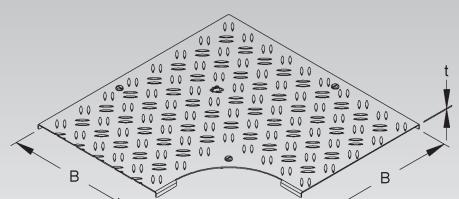
To support the walkable cover, please observe the minimum number of barrier strips (see barrier strips RTSKQ..., RTSQF..., RWTS... and RW....-...).

Used for: cable tray elbow 90° RESS...

Cover for Elbow 90°, antislip (DIN 51130 class R10)

with embossed notches for turnbolt installation

	Model No.	Inside dimensions width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RESDVRS 100-2.0 S	105	3,25	133154	99,34	1 pc.
S	RESDVRS 200-2.0 S	205	3,25	133161	211,39	1 pc.
S	RESDVRS 300-2.0 S	305	3,25	133178	354,91	1 pc.
S	RESDVRS 400-2.0 S	405	3,25	133185	529,88	1 pc.
S	RESDVRS 500-2.0 S	505	3,25	133192	736,30	1 pc.
S	RESDVRS 600-2.0 S	605	3,25	133208	974,24	1 pc.



To support the walkable cover, please observe the minimum number of barrier strips (see barrier strips RTSKQ..., RTSQF..., RWTS... and RW....-...).

The material thickness consists of 2 mm sheet steel and 1,25 mm corrugation height.

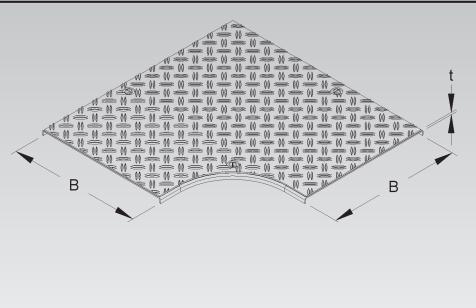
Used for: cable tray elbow 90° RESS...



Cover for Elbow 90°, antislip (DIN 51130 class R10)

with turnbolt locks and heavy duty aluminum chequer plate

	Model No.	Inside dimensions width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RESDVRS 100	105	6	863709	139,17	1 pc.
S	RESDVRS 200	205	6	863723	297,63	1 pc.
S	RESDVRS 300	305	6	863747	501,12	1 pc.
S	RESDVRS 400	405	6	863761	749,63	1 pc.
S	RESDVRS 500	505	6	863778	1.043,16	1 pc.
S	RESDVRS 600	605	6	863792	1.381,72	1 pc.



The material thickness consists of 2 mm sheet steel, 2,5 mm aluminium sheet support and 1,5 mm corrugation height.

To support the walkable cover, please observe the minimum number of barrier strips (see barrier strips RTSKQ..., RTSQF..., RWTS... and RW....-...).

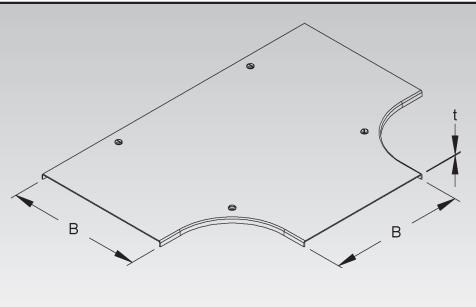
Used for: cable tray elbow 90° RESS...

Other antislip covers available on request

Cover for Horizontal Tee

with pre-assembled turning bolt locks

	Model No.	Inside dimensions width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RTSDVS 100	105	2	863907	146,05	1 pc.
S	RTSDVS 200	205	2	863921	286,45	1 pc.
S	RTSDVS 300	305	2	863945	458,25	1 pc.
S	RTSDVS 400	405	2	863969	661,45	1 pc.
S	RTSDVS 500	505	2	863976	896,05	1 pc.
S	RTSDVS 600	605	2	863990	1.162,04	1 pc.



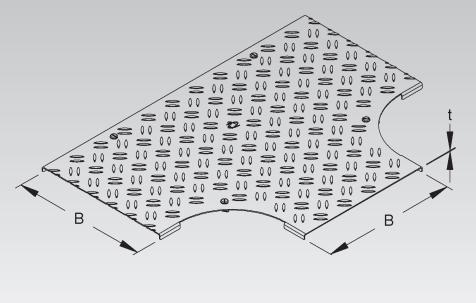
To support the walkable cover, please observe the minimum number of barrier strips (see barrier strips RTSKQ..., RTSQF..., RWTS... and RW....-...).

Used for: cable tray tee RTSS...

Cover for T-piece, antislip (DIN 51130 class R10)

with embossed notches for turnbolt installation

	Model No.	Inside dimensions width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RTSDVRS 100-2.0 S	105	3,25	133031	137,24	1 pc.
S	RTSDVRS 200-2.0 S	205	3,25	133048	277,56	1 pc.
S	RTSDVRS 300-2.0 S	305	3,25	133055	449,36	1 pc.
S	RTSDVRS 400-2.0 S	405	3,25	133062	652,59	1 pc.
S	RTSDVRS 500-2.0 S	505	3,25	133079	887,33	1 pc.
S	RTSDVRS 600-2.0 S	605	3,25	133086	1.153,49	1 pc.



To support the walkable cover, please observe the minimum number of barrier strips (see barrier strips RTSKQ..., RTSQF..., RWTS... and RW....-...).

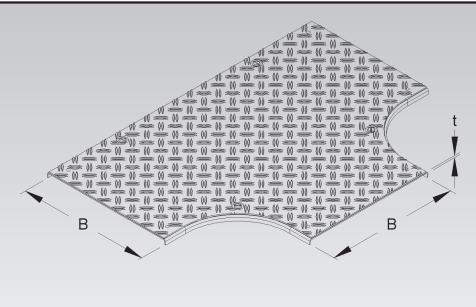
The material thickness consists of 2 mm sheet steel and 1,25 mm corrugation height.

Used for: cable tray tee RTSS...

Cover for T-piece, antislip (DIN 51130 class R10)

with turnbolt locks and heavy duty aluminum chequer plate

	Model No.	Inside dimensions width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RTSDVRS 100	105	6	864102	197,56	1 pc.
S	RTSDVRS 200	205	6	864126	397,84	1 pc.
S	RTSDVRS 300	305	6	864140	643,15	1 pc.
S	RTSDVRS 400	405	6	864164	933,47	1 pc.
S	RTSDVRS 500	505	6	864171	1.268,83	1 pc.
S	RTSDVRS 600	605	6	864195	1.649,21	1 pc.



The material thickness consists of 2 mm sheet steel, 2,5 mm aluminium sheet support and 1,5 mm corrugation height.

To support the walkable cover, please observe the minimum number of barrier strips (see barrier strips RTSKQ..., RTSQF..., RWTS... and RW....-...).

Used for: cable tray tee RTSS...

Other antislip covers available on request

WALKABLE CABLE TRAY SYSTEM ACCESSORIES

Turnbolt Lock

incl. locknut acc. to DIN EN ISO 10511

Model No.	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
E3 RDRS 2 E3	1 FL 6X12-S E3, 1 SMS 6 E3, 1 US M8 E3	337606	1,5	20 pcs.



for additional requirements

Used for: covers for fixing

It is important to note that a minimum clearance of ≥ 50 mm to the start/end of the cover must be maintained when fixing.

Delivery unassembled loose

Ground Terminal

with serrated lock washer and toothed flange nut M6 acc. to DIN EN 1661 completely made of stainless steel

Model No.	Section	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
E10 MTEKM 4X10 E10	4 - 10	165643	2,45	25 pcs.

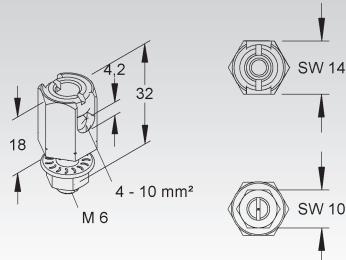
to ensure equipotential bonding of cable trays and all common cable trays with holes $\varnothing 6 - \varnothing 7$ mm for the connection of equipotential bonding / earthing cables, stranded or solid for indoor and outdoor use

Used for: wire mesh tray MTC.... and cable trays

In the case of an insulated conductor, the insulation must be removed over a length of 30 mm, it is possible to tension 2 x 6 mm².



KSA 188 KSA 202



Ground Terminal

incl. threaded rod M 12, 2 washers Ø 30 mm and screws M 6X12

Model No.	Section	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
MS MTEKM 6X25 MS	6 - 25	168125	3,85	20 pcs.

to ensure equipotential bonding in wire mesh trays with a central longitudinal wire spacing of max. 25 mm as well as all common wire mesh trays with bores $\varnothing 6 - \varnothing 7$ mm for the connection of equipotential bonding / earthing cables, stranded or solid for indoor and outdoor use

The clamp and the M12 threaded rod are made of tinned brass, the washers are made of stainless steel.

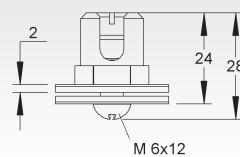
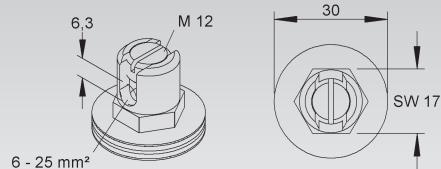
Made of copper-coated aluminium alloy and the M 6X12 screw made of galvanic galvanized steel, blue passivated.

Used for: wire mesh tray MTC.... and cable trays

In the case of an insulated conductor, the insulation must be removed over a length of 30 mm.



KSA 188 KSA 202



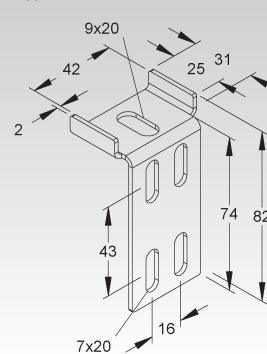
Bearing

for cover support with C-profiles with a max. width of 40 mm

Model No.	Height H mm	Width B mm	Depth T mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S TR 86 S	82	46	31	2	2 FLM 6X16 F	162703	7,67	20 pcs.



KSA 187 KSA 188

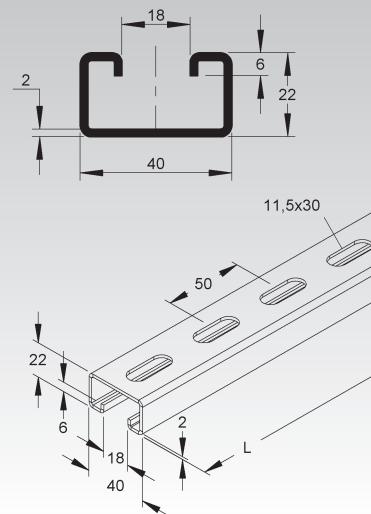


C-profile 2986

slot width 18 mm, perforated, acc. to DIN EN 60715 standard

Model No.	Length L mm	Perforation mm	Distance between perforations mm	EAN code	Weight in kg per 100 pc./m	Smallest packaging unit
S 2986/2 SL	2000	11,5x30	50	899722	149,10	5 x 2 m
E3 2986/100 E3L	100	11,5x30	50	900060	15,00	1 pc.
E3 2986/2 E3L	2000	11,5x30	50	003310	150,02	2 m

Corresponding U-clamps (BU... and BUK...) are listed in this catalogue.

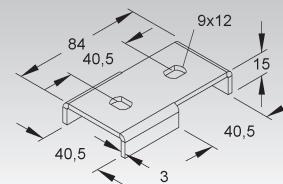


T-Connector

Model No.	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
G TV 40	160105	10,85	100 pcs.

Used for: C-profiles 2986 and 2988 with a rail width of 40 mm

Please order screws and sliding nuts separately.



Mushroom Head Bolt, similar to DIN 603

incl. serrated flange nut, acc. to DIN EN 1661

Model No.	Thread M	Length L mm	Resistance class	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F FLM 8X16 F	8	16	8.8	206704	2,09	50 pcs.



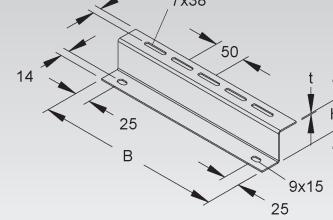
Floor Mounting Bracket (height: 50 mm)

Z-profile, with slotted holes

Model No.	Height H mm	Width B mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RZP 50/100	50	100	2	2 FLM 6X12	191833	18,32	10 pcs.
S RZP 50/200	50	200	2	2 FLM 6X12	847907	34,76	10 pcs.
S RZP 50/300	50	300	2	2 FLM 6X12	847921	51,21	10 pcs.
S RZP 50/400	50	400	2	2 FLM 6X12	847945	67,65	10 pcs.
S RZP 50/500	50	500	2	2 FLM 6X12	847969	83,43	10 pcs.
S RZP 50/600	50	600	2	2 FLM 6X12	847983	100,54	10 pcs.

Alternate mounting of Z-shaped bracket is highly recommended.

The components should be alternately fitted on each side.



WALKABLE CABLE TRAY SYSTEM ACCESSORIES

Floor Mounting Bracket (height: 80 mm)

Z-profile, with slotted holes

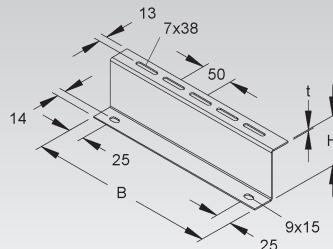
	Model No.	Height H mm	Width B mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RZP 80/100	80	100	2	2 FLM 6X12	191864	23,18	10 pcs.
S	RZP 80/200	80	200	2	2 FLM 6X12	861200	44,50	10 pcs.
S	RZP 80/300	80	300	2	2 FLM 6X12	861224	65,81	10 pcs.
S	RZP 80/400	80	400	2	2 FLM 6X12	861248	87,12	10 pcs.
S	RZP 80/500	80	500	2	2 FLM 6X12	861262	108,43	10 pcs.
S	RZP 80/600	80	600	2	2 FLM 6X12	861286	129,74	10 pcs.

Alternate mounting of Z-shaped bracket is highly recommended.

The components should be alternately fitted on each side.



KSA 199



Floor Mounting Bracket (height: 100 mm)

Z-profile, with slotted holes

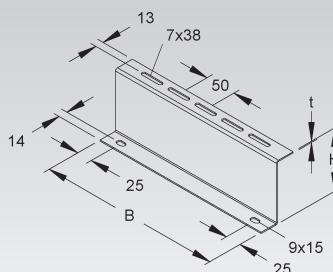
	Model No.	Height H mm	Width B mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RZP 100/100 S	102	100	2	2 FLM 6X12	114153	26,32	10 pcs.
S	RZP 100/200 S	102	200	2	2 FLM 6X12	114146	50,78	10 pcs.
S	RZP 100/300 S	102	300	2	2 FLM 6X12	121328	75,23	10 pcs.
S	RZP 100/400 S	102	400	2	2 FLM 6X12	121335	99,68	10 pcs.
S	RZP 100/500 S	102	500	2	2 FLM 6X12	121342	124,13	10 pcs.
S	RZP 100/600 S	102	600	2	2 FLM 6X12	127658	148,58	10 pcs.

Alternate mounting of Z-shaped bracket is highly recommended.

The components should be alternately fitted on each side.



KSA 199



Floor Mounting Bracket (height: 120 mm)

Z-profile, with slotted holes

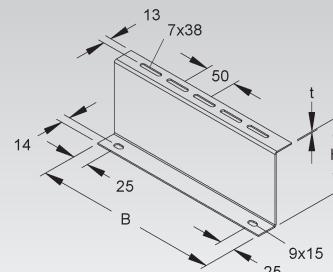
	Model No.	Height H mm	Width B mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RZP 120/100	120	100	2	2 FLM 6X12	861408	29,41	10 pcs.
S	RZP 120/200	120	200	2	2 FLM 6X12	861422	56,74	10 pcs.
S	RZP 120/300	120	300	2	2 FLM 6X12	861446	84,18	10 pcs.
S	RZP 120/400	120	400	2	2 FLM 6X12	861460	111,61	10 pcs.
S	RZP 120/500	120	500	2	2 FLM 6X12	861484	139,05	10 pcs.
S	RZP 120/600	120	600	2	2 FLM 6X12	861507	166,48	10 pcs.

Alternate mounting of Z-shaped bracket is highly recommended.

The components should be alternately fitted on each side.



KSA 199



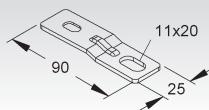
Floor Clamp

	Model No.	Width B mm	Length L mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V	RZPBL 25.90	25	90	3	861583	5	50 pcs.

for clamping of pre-installed floor mounting brackets RZP... to the floor



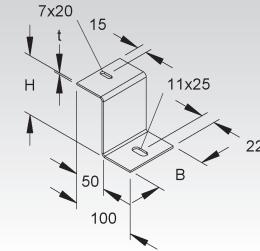
KSA 199



Floor Support

Z-shaped

	Model No.	Height H mm	Width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F	RSSZS 85.40 F	85	40	3	166497	17,52	50 pcs.
F	RSSZS 85.80 F	85	80	3	166510	36,03	50 pcs.
F	RSSZS 95.40 F	95	40	3	154227	18,56	50 pcs.
F	RSSZS 95.80 F	95	80	3	152964	38,10	50 pcs.

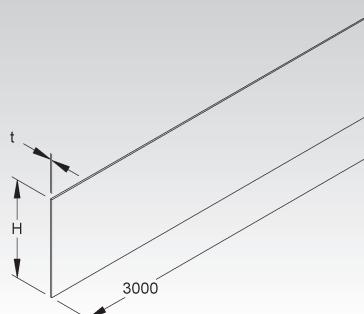


Requirement: 2 pieces per support point

The Z-profile can be arranged in pairs, enabling cost-effective, elevated cable tray installation.

Covering Panel

	Model No.	Height H mm	Length L mm	Material thickness (t) mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S	VBASB 85-1.5/3000 S	85	3000	1,5	138432	100,09	3 m
S	VBASB 95-1.5/3000 S	95	3000	1,5	152971	111,86	3 m



for covering the side floor stands on the walkable cable tray

Used for: floor support RSSZS...

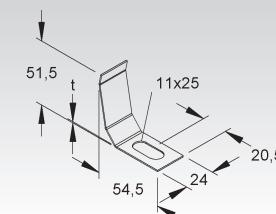
Retaining Clip Covering Sheet

	Model No.	Height H mm	Width B mm	Length L mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
E2	HKVB 85-110 E2	51,5	54,5	24	1	149414	1,61	500 pcs.



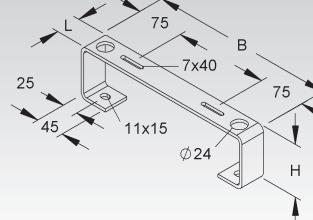
for clamping the side cladding plate VBASB... on the floor support RSSZS... of the accessible duct

Used for: skirting panel VBASB 85... and VBASB 95...



Floor Stand (height: 85 mm)

	Model No.	Height H mm	Width B mm	Length L mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100	Smallest packaging unit
V	RDB 85.100 V	85	100	50	5	2 FLM 6X16 F	132546	60,3	1 pc.
V	RDB 85.200 V	85	200	40	5	2 FLM 6X16 F	132553	62,1	1 pc.
V	RDB 85.300 V	85	300	40	5	2 FLM 6X16 F	132560	77,8	1 pc.
V	RDB 85.400 V	85	400	40	5	2 FLM 6X16 F	132577	93,5	1 pc.
V	RDB 85.500 V	85	500	40	5	2 FLM 6X16 F	132584	109,2	1 pc.
V	RDB 85.600 V	85	600	40	5	2 FLM 6X16 F	132591	124,9	1 pc.

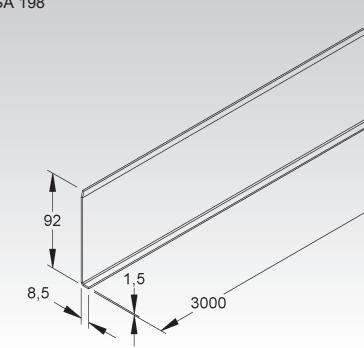


for the elevated laying of walkable cable trays

Item also available in different heights

Covering Panel

	Model No.	Height H mm	Width B mm	Length L mm	Material thickness (t) mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S	VBASB 92.8-1.5/3000 S	92	8,5	3000	1,5	132164	115,27	3 m



for covering the side floor stands on the walkable cable tray

Used for: floor stands RDB 85...

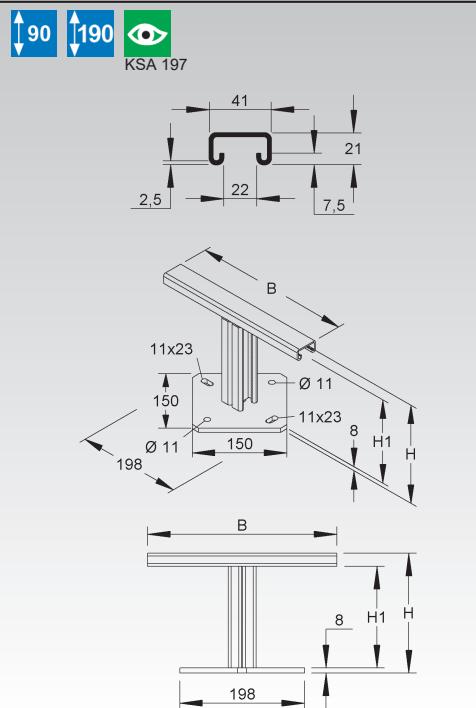
Item also available in different heights

WALKABLE CABLE TRAY SYSTEM ACCESSORIES

Floor Support

symmetrical, with toothed C-profile, non-perforated

	Model No.	Height H mm	Height H1 mm	Width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V	RSSBP 90.100 V	90	61	100	167326	174,63	1 pc.
V	RSSBP 90.200 V	90	61	200	167333	192,77	1 pc.
V	RSSBP 90.300 V	90	61	300	167340	210,92	1 pc.
V	RSSBP 90.400 V	90	61	400	167357	229,07	1 pc.
V	RSSBP 90.500 V	90	61	500	167364	247,21	1 pc.
V	RSSBP 90.600 V	90	61	600	167371	265,36	1 pc.
V	RSSBP 190.100 V	190	161	100	167241	210,92	1 pc.
V	RSSBP 190.200 V	190	161	200	167265	229,06	1 pc.
V	RSSBP 190.300 V	190	161	300	167272	247,21	1 pc.
V	RSSBP 190.400 V	190	161	400	167289	265,36	1 pc.
V	RSSBP 190.500 V	190	161	500	167296	283,50	1 pc.
V	RSSBP 190.600 V	190	161	600	167319	301,65	1 pc.



The supports RSSBP... V consist of:

1 horizontal toothed C-profile (41x21x2,5 mm), without holes, slot width 22 mm

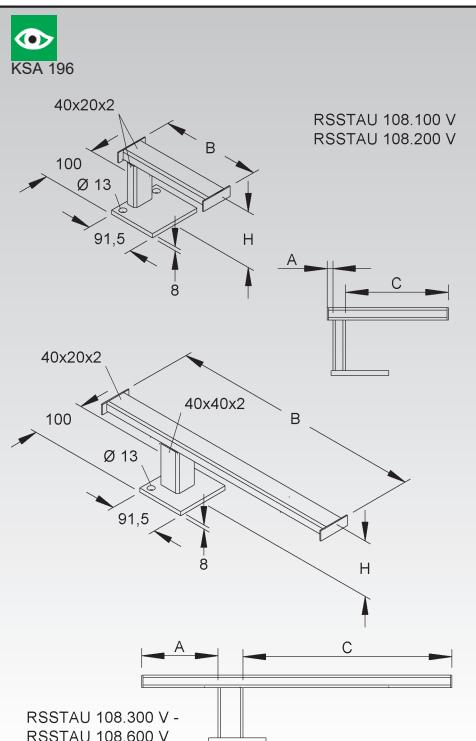
and 2 vertical toothed C-profiles (41x21x2,5 mm), without holes, slot width 22 mm

Please order required mounting accessories GMZF M...-22 F and screws separately for mounting additional components in the rail slots.

Floor Stand

asymmetric, with closed ends, non-perforated

	Model No.	Height H mm	Width B mm	Distance A mm	Distance C mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V	RSSTAU 108.100 V	108	92	12	60	141890	86,75	1 pc.
V	RSSTAU 108.200 V	108	192	12	160	141913	103,52	1 pc.
V	RSSTAU 108.300 V	108	292	18	234	141920	125,32	1 pc.
V	RSSTAU 108.400 V	108	392	18	334	141937	142,10	1 pc.
V	RSSTAU 108.500 V	108	492	118	334	141944	158,87	1 pc.
V	RSSTAU 108.600 V	108	592	218	334	141951	175,65	1 pc.



The support RSSTAU 108.100 V to RSSTAU 108.200 V consists of:

1 horizontal rectangular steel tube acc. to DIN EN 10219-2 (40x20x2 mm), non-perforated

1 vertical rectangular steel tube acc. to DIN EN 10219-2 (40x20x2 mm), non-perforated

The support RSSTAU 108.300 V to RSSTAU 108.600 V consists of:

1 horizontal rectangular steel tube acc. to DIN EN 10219-2 (40x20x2 mm), non-perforated

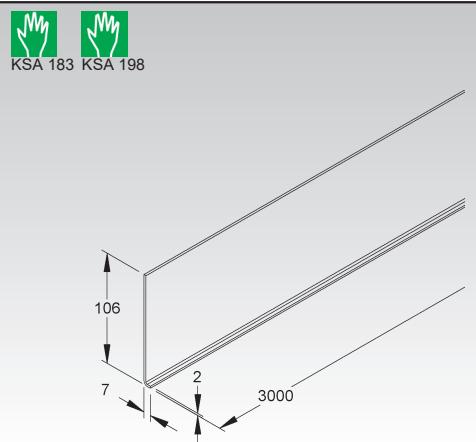
1 vertical rectangular steel tube acc. to DIN EN 10219-2 (40x40x2 mm), non-perforated

Covering Panel

	Model No.	Height H mm	Width B mm	Length L mm	Material thickness (t) mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S	VBASB 106.7-2.0/3000 S	106	7	3000	2	115129	172,59	3 m

for covering the side floor stands on the walkable cable tray

Used for: floor stand RSSTAU 108...

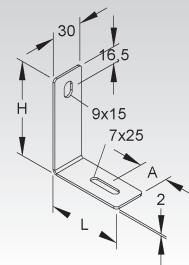


Wire Mesh Tray Support Bracket

Model No.	Height H mm	Length L mm	Distance A mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S GRHW 30/40	71,5	51	18	939367	5	20 pcs.
E3 GRHW 30/40 E3	71,5	51	18	939374	5	20 pcs.

for fixing cable trays on gratings with hook screw GRSM 6..., please order separately for clamp fastening in walkable cable ducts as riser duct

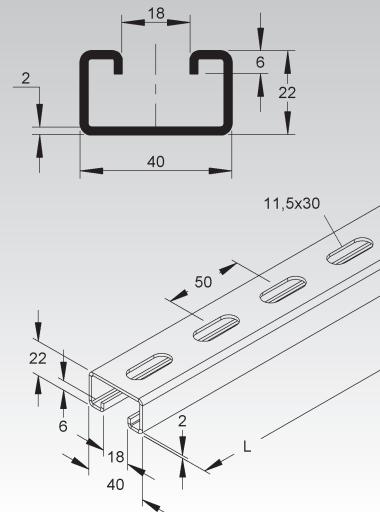
Used for: cable trays



C-profile 2986

slot width 18 mm, perforated, acc. to DIN EN 60715 standard

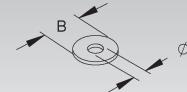
Model No.	Length L mm	Perforation mm	Distance between perforations mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S 2986/100 SL	100	11,5x30	50	894680	14,91	1 pc.
S 2986/200 SL	200	11,5x30	50	894703	29,81	1 pc.
S 2986/300 SL	300	11,5x30	50	894727	44,72	1 pc.
S 2986/400 SL	400	11,5x30	50	894741	59,63	1 pc.
S 2986/500 SL	500	11,5x30	50	894765	74,53	1 pc.
S 2986/600 SL	600	11,5x30	50	894772	89,44	1 pc.
E3 2986/100 E3L	100	11,5x30	50	900060	15,00	1 pc.



Large Diameter Washer, acc. to DIN EN ISO 7093-1

Model No.	Mounting hole -Ø mm	Width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V UGM 8	8,4	24	209002	0,68	100 pcs.
E3 UGM 8 E3	8,4	24	931248	0,68	100 pcs.

for fixing cable ladders on brackets and for fixing cable trays on perforated C-profiles as well as for covering larger fixing holes



Mushroom Head Bolt, similar to DIN 603

incl. serrated flange nut, acc. to DIN EN 1661

Model No.	Thread M mm	Length L mm	Resistance class	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V FLM 6X12	6	12	-	206209	0,79	10 pcs.
F FLM 6X16 F	6	16	-	206506	0,86	50 pcs.
E3 FLM 6X12 E3	6	12	1.4301	343805	0,81	50 pcs.

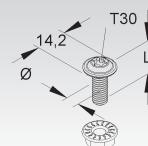


Pan Head Screw with hexagonal socket T30 similar to DIN EN ISO 7380-2

incl. serrated flange nut, acc. to DIN EN 1661

Model No.	Thread M mm	Length L mm	Resistance class	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V LFM 6X16-TX V	6	16	-	132607	0,88	50 pcs.

for fixing cable trays on spacer plates/brackets and for fixing barrier strips, etc.



WALKABLE CABLE TRAY SYSTEM ACCESSORIES

Pan Head Self Drilling Screws with hexagonal socket T20 similar to DIN EN ISO 15481

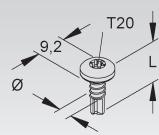
drill tip made of case-hardened steel

Model No.	Thread M	Length L mm	Resistance class	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V B 4.2X13-TX V	4,2	13	-	132614	0,18	1000 pcs.

for fixing the VBASB... skirting panel on RDB... tray spacer brackets

for fixing the VBASB 106.7-2.0/3000 S skirting panel to the floor stand RSSTAU 108...

for fixing the walkable cable trays on the spacer bracket RDB 85... / RSSTAU 108... / floor support RSSBP...



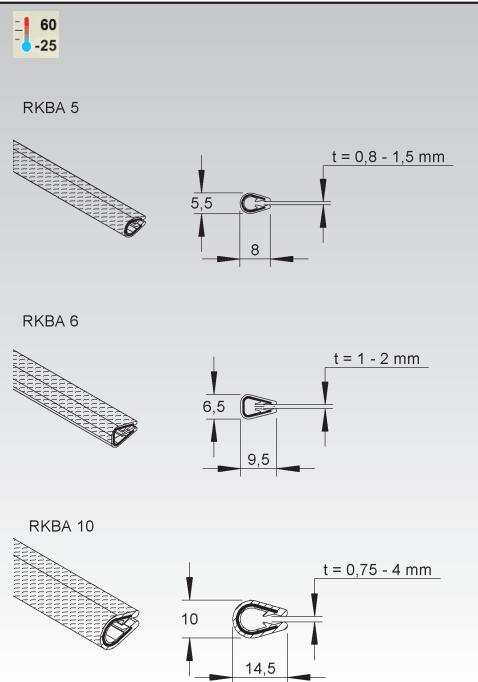
Edge Protection Strip

with steel clamping strip

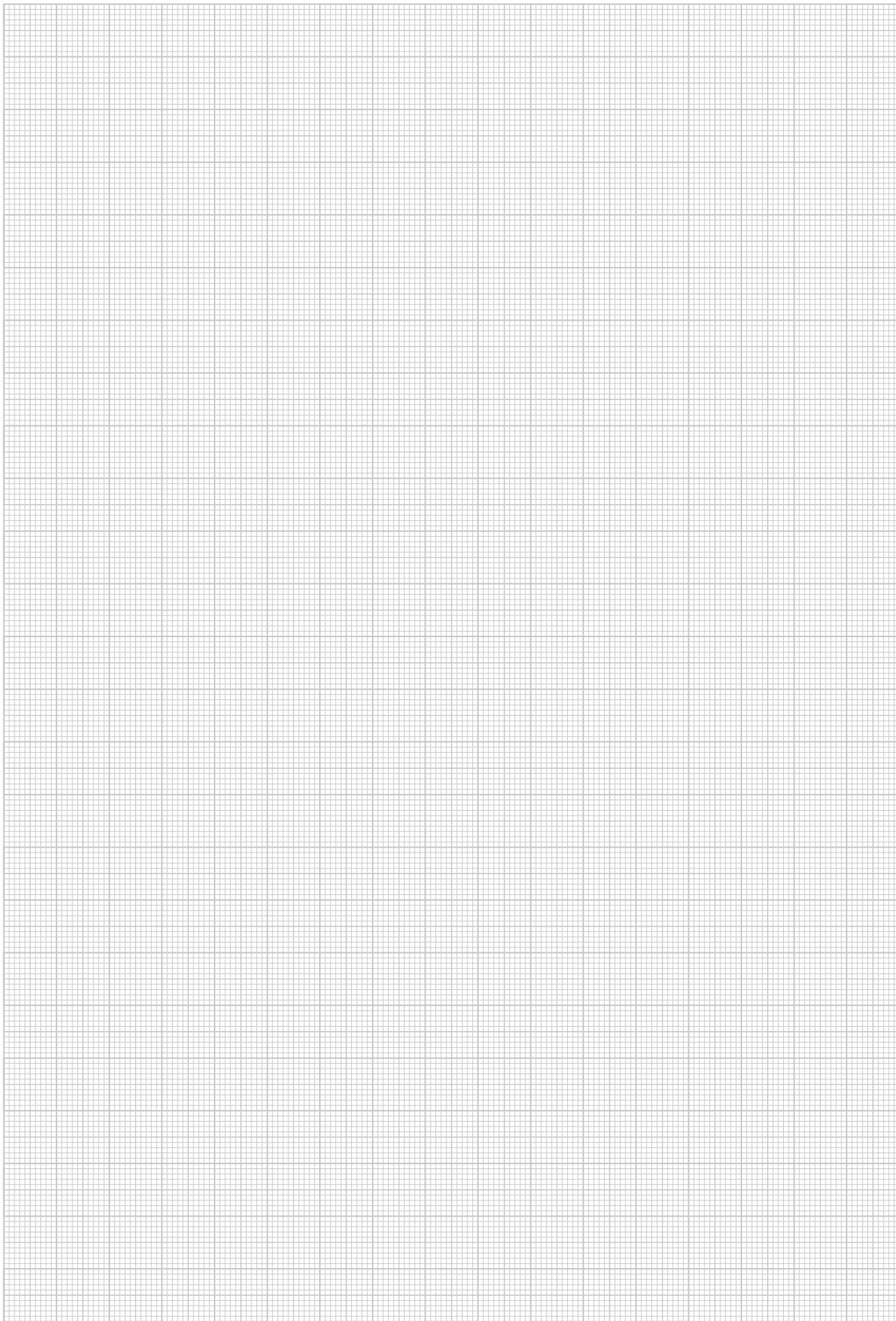
Model No.	Colour	Section mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
K10	RKBA 5	black 0,8-1,5	077991	4,7	10 m
K10	RKBA 6	black 1-2	934805	7,7	10 m
K10	RKBA 10	black 0,75-4	206100	15,0	10 m

for protecting cut edges for plate thicknesses from 0,75 mm to 4,0 mm

The edge protection strip must be arranged in personal danger areas!



NOTES



A large rectangular area filled with a uniform grid of small squares, intended for handwritten notes or drawings.



WIRE MESH TRAY SYSTEM MTC

Side rail heights ↑**30** ↓**54** ↑**105**

- Wire Mesh Tray
- Barrier Strips
- Covers
- Accessories





This wire mesh tray system is mainly used in industry. Corresponding stainless steel versions are used in the food processing industry as well as in the food industry. Chemical companies, as the material meets the special requirements.

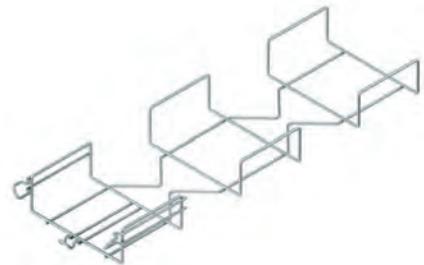
Due to a wire thickness of up to 5 mm, the products have a stable construction and can therefore withstand high loads. Many screwless system accessories allow a quick and easy way of assembly.

On the right you will find a selection of the most frequently used articles, more on the following pages.

MTC 54...



MTCE 54...



GRKH... / GRKV...



GRKHF 173...



WIRE MESH TRAY SYSTEM

System overview of side heights

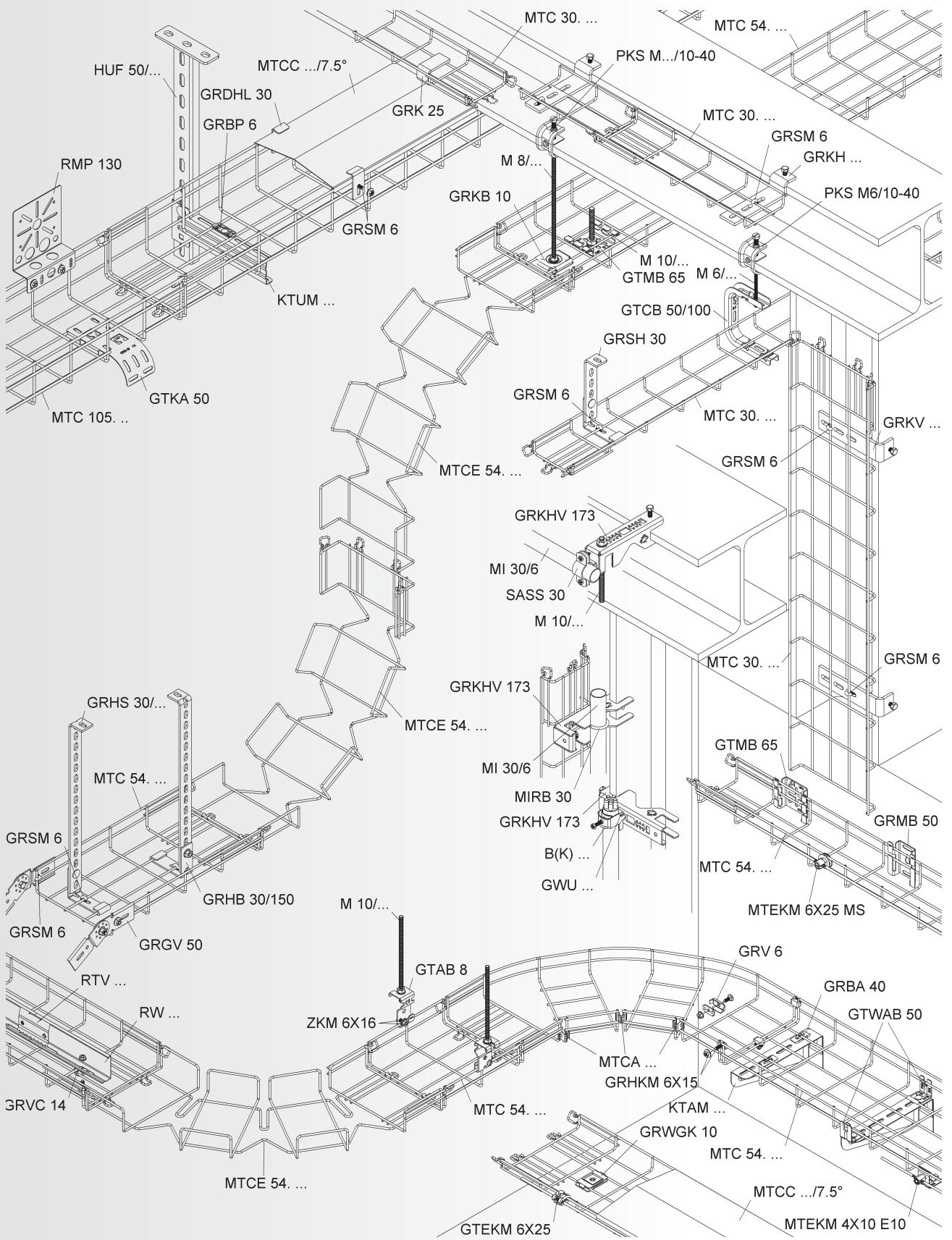
30 54 105

SYSTEM	Wire Mesh Tray	MTC 30...	Page 56
	Wire Mesh Tray	MTC 54...	Page 57
	Wire Mesh Tray	MTC 105...	Page 58
ACCESSORIES	Elbow 90°, adjustable	MTCE...	Page 58
	Connector for Fittings	MTCA...	Page 59
	Universal Splice Plate	GRHKM...	Page 59
	Universal Splice Plate	GRV 6...	Page 59
	Adjustable Splice Plate	GRGV 50...	Page 59
	Barrier Strip	RW...	Page 60
	Splice Plate for Barrier Strip	RTV...	Page 60
	★ Protective End Cap, left /right	SKRWL 50 / SKRWR 50	Page 60
	Mounting Clamp for Barrier Strip	GRVC...	Page 61
	Cable Drop Out for Wire Mesh Tray	GTKA...	Page 61
	Mounting Plate	RMP...	Page 61
	Wire Mesh Mounting Bracket	GRWGK...	Page 61
	Fixing Plate for Wire Mesh Tray	GRBP...	Page 62
	Mounting Brackets	GRMB...	Page 62
	Mounting Bracket for Wire Mesh Tray	GTMB...	Page 62
	Wall and Bracket Mounting of Wire Mesh Tray	GTWAB...	Page 62
	★ Fixing Clamp for Wire Mesh Tray, horizontal / vertical	GRKHV...	Page 63
	Fixing Clamp for Wire Mesh Tray, horizontal	GRKH...	Page 63
	Fixing Clamp for Wire Mesh Tray, vertical	GRKV...	Page 63
	Clamping Piece	GRK 25	Page 63
	Beam Clamp	PKS M...	Page 64
	Threaded Rod	M 6/...	Page 64
	Threaded Rod	M 8/...	Page 64
	Threaded Rod	M 10/...	Page 64
	Center Hanger for Threaded Rod	GRKB...	Page 64
	Trapeze Hanger for Wire Mesh Tray	GTAB...	Page 65
	Center Support for Wire Mesh Tray	GTCB...	Page 65
	Extension for Wire Mesh Hanger	GRTS 30/3 F	Page 65
	Mounting Bracket for Wire Mesh Tray	GRHB 30/150 F	Page 65
	Standard Hanger for Wire Mesh Tray	GRSH 30 F	Page 66
	Overhead Hanger for Wire Mesh Tray	GRHS...	Page 66
	Wire Mesh Cable Tray Ground Terminal	GTEKM 6X25	Page 66
	Ground Terminal	MTEKM 4X10 E10	Page 67
	Ground Terminal	MTEKM 6X25 MS	Page 67
	J-Hook bolt	GRSM...	Page 67
	Slotted Pan Head Bolt	ZKM 6X16	Page 67
	Mushroom Head Bolt	FLM...	Page 67
	Cover for Wire Mesh Tray in Roof Shape	MTCC...	Page 68
	Retaining Bracket for Wire Mesh Tray Cover	GRDHL...	Page 68

The identical mesh cable tray without click connection (formerly Tolmega-GTS...) under the short name MT... available.

Please note the shown dimensions for accessories in the table area.





WIRE MESH TRAY SYSTEM

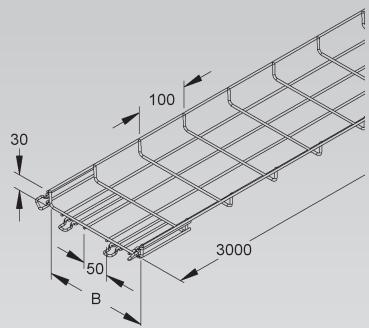
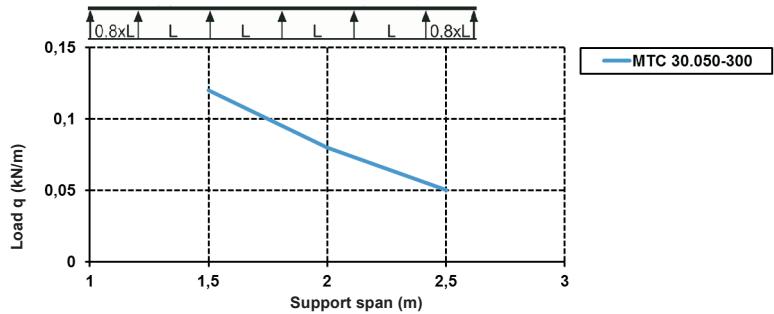
Wire Mesh Tray

U-shaped, made of steel wires, spot-welded, with welded connector

	Model No.	Width inside B mm	Steel wire -Ø lengthwise mm	Steel wire -Ø crosswise mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
V	MTC 30.050 V	50	3,9	3,9	711215	39,87	3 m
V	MTC 30.100 V	100	3,9	3,9	711222	53,84	3 m
V	MTC 30.150 V	150	3,9	3,9	711239	67,75	3 m
V	MTC 30.200 V	200	3,9	3,9	711246	82,43	3 m
V	MTC 30.300 V	300	3,9	3,9	711253	110,43	3 m
F	MTC 30.050 F	50	3,9	3,9	712014	43,85	3 m
F	MTC 30.100 F	100	3,9	3,9	712021	59,23	3 m
F	MTC 30.150 F	150	3,9	3,9	712038	74,53	3 m
F	MTC 30.200 F	200	3,9	3,9	712045	90,67	3 m
F	MTC 30.300 F	300	3,9	3,9	712052	121,47	3 m
E3	MTC 30.050 E3	50	3,9	3,9	713011	40,12	3 m
E3	MTC 30.100 E3	100	3,9	3,9	713028	54,19	3 m
E3	MTC 30.150 E3	150	3,9	3,9	713035	68,18	3 m
E3	MTC 30.200 E3	200	3,9	3,9	713059	82,96	3 m
E3	MTC 30.300 E3	300	3,9	3,9	713066	111,13	3 m
E4	MTC 30.050 E4	50	3,9	3,9	714018	40,53	3 m
E4	MTC 30.100 E4	100	3,9	3,9	714025	54,73	3 m
E4	MTC 30.150 E4	150	3,9	3,9	714032	68,87	3 m
E4	MTC 30.200 E4	200	3,9	3,9	714049	83,80	3 m
E4	MTC 30.300 E4	300	3,9	3,9	714056	112,25	3 m

Wire mesh tray MTC 30 ... E4 on request

Load chart: $q = \text{equally distributed load}$ (tested acc. to DIN EN IEC 61537)



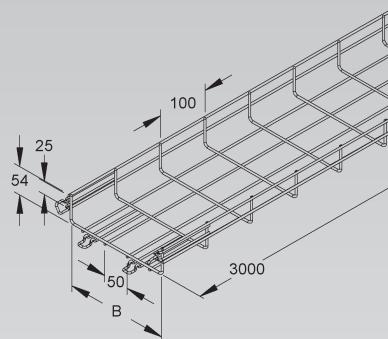
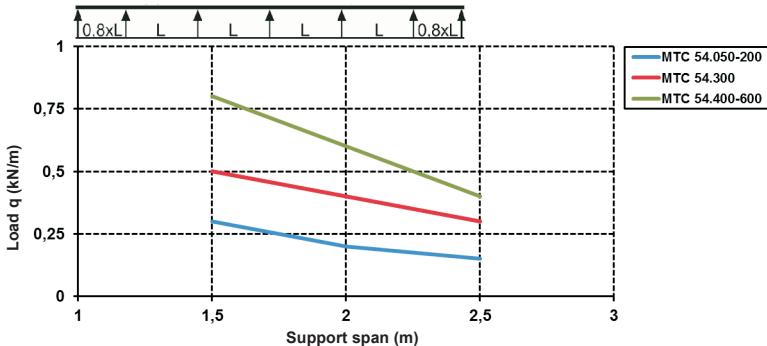
Wire Mesh Tray

U-shaped, made of steel wires, spot-welded, with welded connector

	Model No.	Width inside B mm	Steel wire -Ø lengthwise mm	Steel wire -Ø crosswise mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
V	MTC 54.050 V	50	3,90	3,90	711260	62,98	3 m
V	MTC 54.100 V	100	3,90	3,90	711277	76,66	3 m
V	MTC 54.150 V	150	3,90	3,90	711284	89,91	3 m
V	MTC 54.200 V	200	3,90	3,90	711291	104,16	3 m
V	MTC 54.300 V	300	4,82	4,82	711314	202,94	3 m
V	MTC 54.400 V	400	4,82	5,82	711321	283,58	3 m
V	MTC 54.500 V	500	4,82	5,82	711338	333,23	3 m
V	MTC 54.600 V	600	4,82	5,82	711345	382,80	3 m
F	MTC 54.050 F	50	3,90	3,90	712069	68,94	3 m
F	MTC 54.100 F	100	3,90	3,90	712076	84,33	3 m
F	MTC 54.150 F	150	3,90	3,90	712083	98,90	3 m
F	MTC 54.200 F	200	3,90	3,90	712090	114,58	3 m
F	MTC 54.300 F	300	4,82	4,82	712113	223,24	3 m
F	MTC 54.400 F	400	4,82	5,82	712120	311,94	3 m
F	MTC 54.500 F	500	4,82	5,82	712137	366,55	3 m
F	MTC 54.600 F	600	4,82	5,82	712144	421,08	3 m
E3	MTC 54.050 E3	50	3,90	3,90	713073	63,38	3 m
E3	MTC 54.100 E3	100	3,90	3,90	713080	77,15	3 m
E3	MTC 54.150 E3	150	3,90	3,90	713097	90,48	3 m
E3	MTC 54.200 E3	200	3,90	3,90	713110	104,83	3 m
E3	MTC 54.300 E3	300	4,82	4,82	713134	204,24	3 m
E3	MTC 54.400 E3	400	4,82	5,82	713165	285,39	3 m
E3	MTC 54.500 E3	500	4,82	5,82	713189	335,35	3 m
E3	MTC 54.600 E3	600	4,82	5,82	713219	385,24	3 m
E4	MTC 54.050 E4	50	3,90	3,90	714063	64,02	3 m
E4	MTC 54.100 E4	100	3,90	3,90	714070	77,93	3 m
E4	MTC 54.150 E4	150	3,90	3,90	714087	91,40	3 m
E4	MTC 54.200 E4	200	3,90	3,90	714094	105,89	3 m
E4	MTC 54.300 E4	300	4,82	4,82	714117	206,30	3 m
E4	MTC 54.400 E4	400	4,82	5,82	714124	288,28	3 m
E4	MTC 54.500 E4	500	4,82	5,82	714131	338,75	3 m
E4	MTC 54.600 E4	600	4,82	5,82	714148	389,14	3 m

Wire mesh tray MTC 54 ... E4 on request

Load chart: q = equally distributed load (tested to DIN EN IEC 61537 standard)

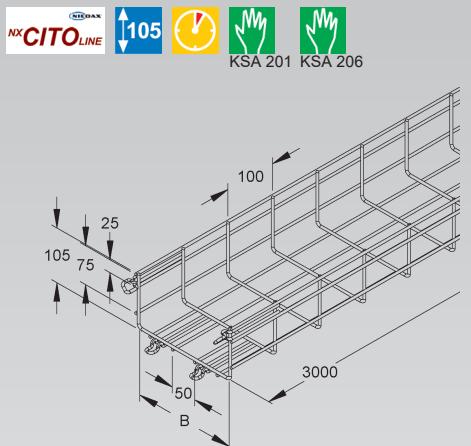


WIRE MESH TRAY SYSTEM

Wire Mesh Tray

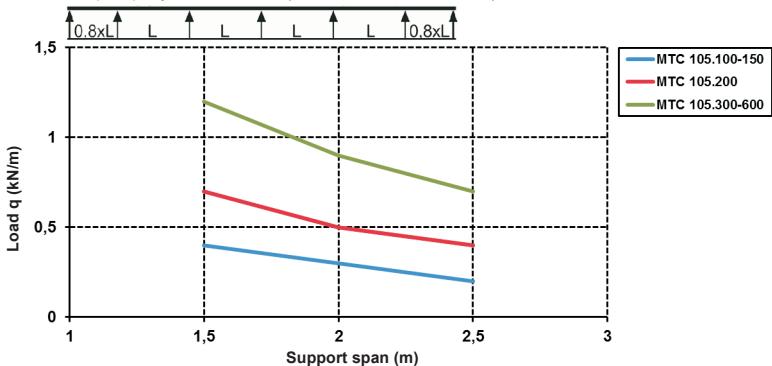
U-shaped, made of steel wires, spot-welded, with welded connector

	Model No.	Width inside B mm	Steel wire -Ø lengthwise mm	Steel wire -Ø crosswise mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
V	MTC 105.100 V	100	3,90	3,90	711352	104,37	3 m
V	MTC 105.150 V	150	3,90	3,90	711369	117,61	3 m
V	MTC 105.200 V	200	4,82	4,82	711376	203,45	3 m
V	MTC 105.300 V	300	4,82	5,82	711383	280,79	3 m
V	MTC 105.400 V	400	4,82	5,82	711390	325,95	3 m
V	MTC 105.500 V	500	4,82	5,82	711413	373,30	3 m
V	MTC 105.600 V	600	4,82	5,82	711420	421,64	3 m
F	MTC 105.100 F	100	3,90	3,90	712151	114,80	3 m
F	MTC 105.150 F	150	3,90	3,90	712168	129,37	3 m
F	MTC 105.200 F	200	4,82	4,82	712175	223,80	3 m
F	MTC 105.300 F	300	4,82	5,82	712182	308,86	3 m
F	MTC 105.400 F	400	4,82	5,82	712199	358,55	3 m
F	MTC 105.500 F	500	4,82	5,82	712212	410,63	3 m
F	MTC 105.600 F	600	4,82	5,82	712229	463,81	3 m
E3	MTC 105.100 E3	100	3,90	3,90	713233	105,03	3 m
E3	MTC 105.150 E3	150	3,90	3,90	713264	118,36	3 m
E3	MTC 105.200 E3	200	4,82	4,82	713288	204,75	3 m
E3	MTC 105.300 E3	300	4,82	5,82	713318	282,57	3 m
E3	MTC 105.400 E3	400	4,82	5,82	713325	328,03	3 m
E3	MTC 105.500 E3	500	4,82	5,82	713332	375,68	3 m
E3	MTC 105.600 E3	600	4,82	5,82	713349	424,33	3 m
E4	MTC 105.100 E4	100	3,90	3,90	714155	106,10	3 m
E4	MTC 105.150 E4	150	3,90	3,90	714162	119,56	3 m
E4	MTC 105.200 E4	200	4,82	4,82	714179	206,82	3 m
E4	MTC 105.300 E4	300	4,82	5,82	714186	285,44	3 m
E4	MTC 105.400 E4	400	4,82	5,82	714193	331,35	3 m
E4	MTC 105.500 E4	500	4,82	5,82	714216	379,49	3 m
E4	MTC 105.600 E4	600	4,82	5,82	714223	428,63	3 m



Wire mesh tray MTC 105 ... E4 on request

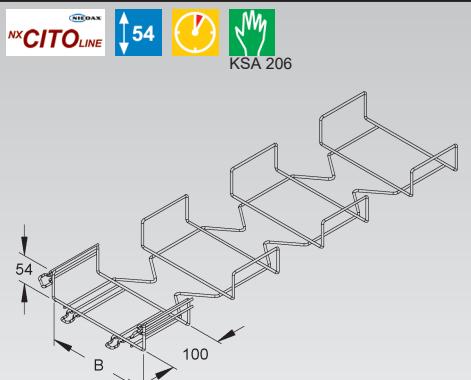
Load chart: q = equally distributed load (tested to DIN EN IEC 61537)



Elbow 90°, adjustable

U-shaped, spot-welded of steel wires, with welded connectors

	Model No.	Width inside B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V	MTCE 54.100 V	100	711512	30,55	4 pcs.
V	MTCE 54.150 V	150	711536	34,76	4 pcs.
V	MTCE 54.200 V	200	711550	54,45	4 pcs.
V	MTCE 54.300 V	300	711574	106,80	4 pcs.
F	MTCE 54.100 F	100	712311	33,61	4 pcs.
F	MTCE 54.150 F	150	712335	38,24	4 pcs.
F	MTCE 54.200 F	200	712359	59,90	4 pcs.
F	MTCE 54.300 F	300	712373	117,48	4 pcs.
E3	MTCE 54.100 E3	100	713424	30,75	4 pcs.
E3	MTCE 54.150 E3	150	713431	34,98	4 pcs.
E3	MTCE 54.200 E3	200	713455	54,80	4 pcs.
E3	MTCE 54.300 E3	300	713462	107,48	4 pcs.
E4	MTCE 54.100 E4	100	714315	31,06	4 pcs.
E4	MTCE 54.150 E4	150	714322	35,34	4 pcs.
E4	MTCE 54.200 E4	200	714339	55,35	4 pcs.
E4	MTCE 54.300 E4	300	714346	108,57	4 pcs.



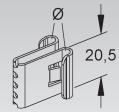
Used for: wire mesh tray MTC 54...

Elbow 90° MTCE 54 ... E4 on request



Connector for fittings

Model No.	For steel wire diameter	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
mm				
E3 MTCA 4 E3	4	713615	1,09	50 pcs.
E3 MTCA 5 E3	5	713622	1,01	50 pcs.
E3 MTCA 6 E3	6	713639	1,03	50 pcs.



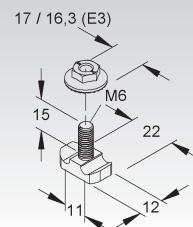
creating fittings for wire mesh trays on site

Universal Splice Plate

2-parts

Model No.	Resistance class	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V GRHKM 6X15 V	8.8	012442	1,83	50 pcs.
F GRHKM 6X15 F	8.8	012435	1,83	50 pcs.
E3 GRHKM 6X15 E3	70	012428	1,82	50 pcs.

for making straight runs of wire mesh tray and fittings flexibly



Universal Splice Plate

2-parts

Model No.	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S GRV 6	1 FLM 6X16 F	280209	2,62	50 pcs.
F GRV 6 F	1 FLM 6X16 F	280186	2,75	50 pcs.
E3 GRV 6 E3	1 FLM 6X16 E3	802104	2,69	20 pcs.
E5 GRV 6 E5	1 FLM 6X16 E5	127733	2,72	20 pcs.

for making straight runs of wire mesh tray and fittings flexibly

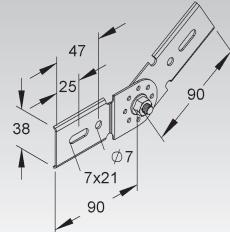


Adjustable Splice Plate

Model No.	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S GRGV 50	2 GRSM 6 V	940561	11,00	10 pcs.
F GRGV 50 F	2 GRSM 6 F	940585	18,46	10 pcs.
E3 GRGV 50 E3	2 GRSM 6 E3	940578	11,00	10 pcs.

for fabrication of an angle connection of straight wire mesh tray with two lateral longitudinal steel wires (max. 41 mm centrical distance)

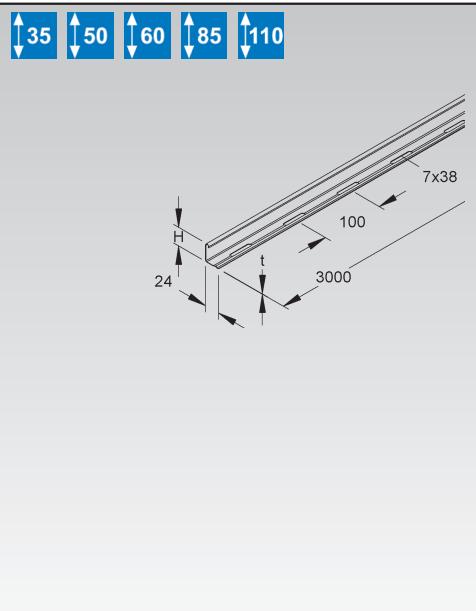
Requirement: 2 pieces per joint



WIRE MESH TRAY SYSTEM

Barrier Strip

	Model No.	Height H mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 m	Smallest packaging unit
S	RW 35	30	0,75	4 FLM 6X12	213504	35,13	10 x 3 m
S	RW 50	47	0,75	4 FLM 6X12	224951	45,05	10 x 3 m
S	RW 60	55	0,75	4 FLM 6X12	225002	49,86	10 x 3 m
S	RW 85	80	0,90	4 FLM 6X12	237609	78,39	10 x 3 m
S	RW 110	98	0,90	4 FLM 6X12	251001	90,37	10 x 3 m
F	RW 35 F	30	0,75	4 FLM 6X12 F	213603	38,67	10 x 3 m
F	RW 50 F	47	0,75	4 FLM 6X12 F	938551	49,58	10 x 3 m
F	RW 60 F	55	0,75	4 FLM 6X12 F	225101	54,87	10 x 3 m
F	RW 85 F	80	0,90	4 FLM 6X12 F	237708	86,12	10 x 3 m
F	RW 110 F	98	0,90	4 FLM 6X12 F	251100	99,30	10 x 3 m
E3	RW 35 E3	30	0,80	4 FLM 6X12 E3	333325	37,65	10 x 3 m
E3	RW 50 E3	47	0,80	4 FLM 6X12 E3	333356	48,32	10 x 3 m
E3	RW 60 E3	55	0,80	4 FLM 6X12 E3	333400	53,48	10 x 3 m
E3	RW 85 E3	80	0,90	4 FLM 6X12 E3	333424	78,88	10 x 3 m
E3	RW 110 E3	98	0,90	4 FLM 6X12 E3	333509	88,73	10 x 3 m
E5	RW 35 E5	30	0,80	4 FLM 6X12 E5	082926	38,51	10 x 3 m
E5	RW 60 E5	55	0,80	4 FLM 6X12 E5	729401	53,86	10 x 3 m
E5	RW 110 E5	98	0,90	4 FLM 6X12 E5	074518	81,25	10 x 3 m



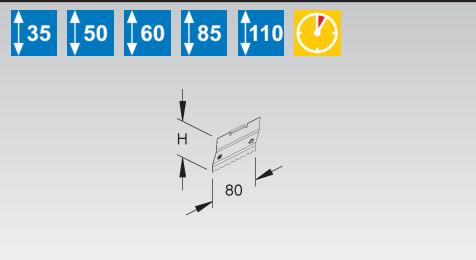
for the separation of wires and cables with different functions and/or voltages

This barrier strip is not suitable for supporting the walkable cover.

The continuous perforation allows a stepless mounting.

Splice Plate for Barrier Strip

	Model No.	Height H mm	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
E2	RTV 35 E2	29,0	80	213658	0,74	20 pcs.
E2	RTV 50 E2	46,5	80	224999	1,18	20 pcs.
E2	RTV 60 E2	54,5	80	225149	1,39	20 pcs.
E2	RTV 85 E2	79,5	80	237753	2,03	20 pcs.
E2	RTV 110 E2	97,5	80	251162	2,50	20 pcs.



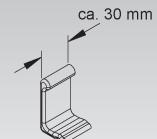
for the mechanical, electrical and at the joint form-fitting connection of the barrier strips in alignment in the longitudinal direction

The connection of the barrier strips to be carried out by clicking in the splice plates at the joint.

Protective End Cap

left

	Model No.	Colour	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
★ K10	SKRWL 50	black	966264	1,3	20 pcs.



to protect the barrier strip ends

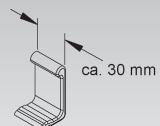
Used for: barrier strip RW 50...

To ensure that the protective cap can be fitted without any problems, it must be kept at a distance of at least 40 mm from the end of the profile.

Protective End Cap

right

	Model No.	Colour	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
★ K10	SKRWR 50	black	966271	1,3	20 pcs.



to protect the barrier strip ends

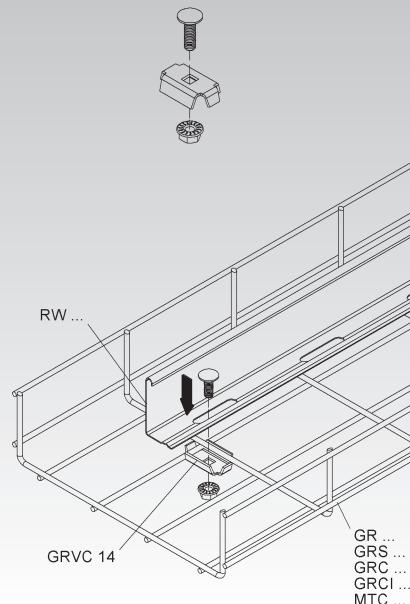
Used for: barrier strip RW 50...

To ensure that the protective cap can be fitted without any problems, it must be kept at a distance of at least 40 mm from the end of the profile.

Mounting Clamp for Barrier Strip

Model No.	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S GRVC 14	1 FLM 6X20 F	280308	2,28	50 pcs.
F GRVC 14 F	1 FLM 6X20 F	280339	2,40	50 pcs.
E3 GRVC 14 E3	1 FLM 6X20 E3	841509	2,30	20 pcs.
E5 GRVC 14 E5	1 FLM 6X20 E4	141876	2,32	20 pcs.

for attaching barrier strip to wire mesh trays



Cable Drop Out for Wire Mesh Tray

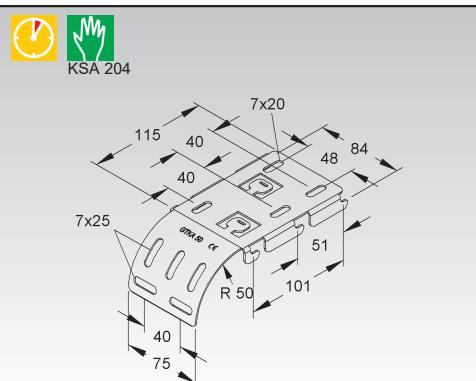
Model No.	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S GTKA 50 S	967483	16,5	10 pcs.
FG GTKA 50 FG	136865	17,6	10 pcs.
E3 GTKA 50 E3	116720	14,0	10 pcs.
E4 GTKA 50 E4	136858	14,0	10 pcs.

for boltless mounting by putting and sliding on

for wire mesh trays with a distance of cross-span of 100 mm and/or distance for longitudinal steel wire of 50 mm

for wire mesh trays (> 100 mm width) and max. steel wire diameter of 6 mm

Used for: wire mesh tray MTC....

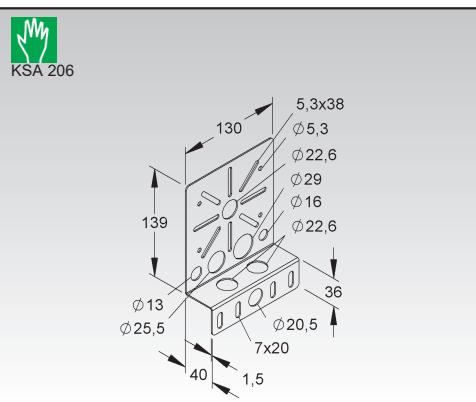


Mounting Plate

Model No.	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RMP 130	2 FLM 6X12	206148	27,90	10 pcs.
F RMP 130 F	2 FLM 6X12 F	206162	30,78	10 pcs.
E3 RMP 130 E3	2 FLM 6X12 E3	769728	28,09	10 pcs.
E5 RMP 130 E5	2 FLM 6X12 E5	073276	28,38	10 pcs.

for mounting distribution or junction boxes

Mounting accessories required for mounting on wire mesh trays 2 x GRSM 6 please order separately.



Wire Mesh Mounting Bracket, single-piece

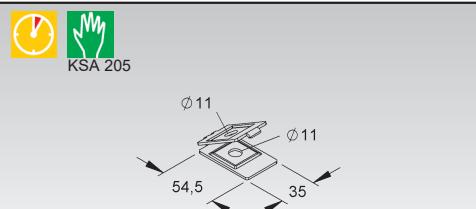
Model No.	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S GRWGK 10 S	280797	5,8	25 pcs.
E3 GRWGK 10 E3	931057	5,8	25 pcs.

for variable side mounting of wire mesh trays (max. 100 mm width)

for variable floor fixing of wire mesh trays

for variable thread suspension of wire mesh trays (max. 300 mm width)

The clamping range includes steel wire thickness from 3,0 up to 6,0 mm.



WIRE MESH TRAY SYSTEM

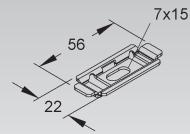
Fixing Plate for Wire Mesh Tray

Model No.	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S GRBP 6 S	936953	1,11	50 pcs.
F GRBP 6 F	966257	1,22	50 pcs.
E3 GRBP 6 E3	936960	1,12	50 pcs.
E5 GRBP 6 E5	127726	1,13	50 pcs.

for floor and bracket mounting of wire mesh tray

Used for: wire mesh tray MTC....

Fixing accessories for the particular application have to be ordered separately.



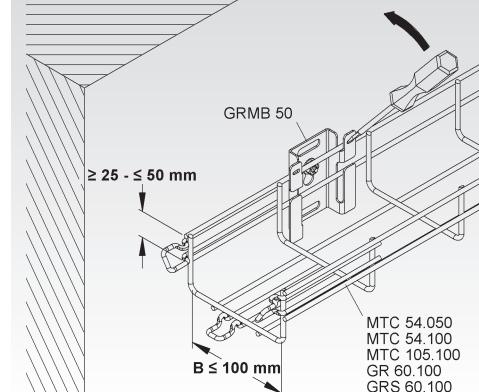
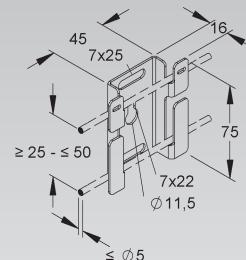
Mounting Brackets

Model No.	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S GRMB 50	864904	7,23	20 pcs.
E3 GRMB 50 E3	912018	7,27	20 pcs.

for screwless wall mounting of wire mesh trays up to a width of 100 mm and at least two longitudinal wires at the sides with a central distance ≥ 25 mm and ≤ 50 mm

for central threaded rod suspension of wire mesh trays up to a width of 300 mm

Used for: wire mesh tray MTC...



Mounting Bracket for Wire Mesh Tray

Model No.	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S GTMB 65 S	058211	8,6	20 pcs.
FG GTMB 65 FG	058198	8,7	20 pcs.
E3 GTMB 65 E3	058181	9,0	20 pcs.
E4 GTMB 65 E4	079445	9,0	20 pcs.

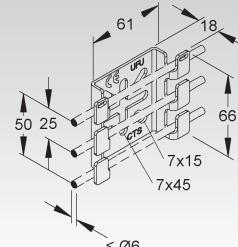
for boltless wall mounting of wire mesh tray with max. 100 mm width and min. 2 lateral longitudinal steel wires, centered threading rod suspension up to a width of 300 mm

for mounting distribution or junction boxes

Used for: wire mesh tray MTC ...



KSA 201



Wall and Bracket Mounting of Wire Mesh Tray

Model No.	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S GTWAB 50 S	058990	2,6	50 pcs.
FG GTWAB 50 FG	058983	2,6	50 pcs.
E3 GTWAB 50 E3	058976	3,0	50 pcs.
E4 GTWAB 50 E4	018642	2,5	50 pcs.

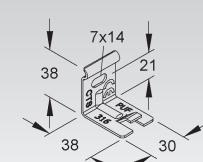
for wall mounting

for attaching wire mesh trays to any kind of brackets

Used for: wire mesh tray MTC ...



KSA 201 KSA 202



Fixing Clamp for Wire Mesh Tray

horizontal / vertical

Model No.	Total length L mm	Support length L1 mm	Load bearing capacity kN	Load bearing capacity kN	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S GRKHV 173 S	173	148	0,60	0,9	1 SK 8X35 V	166381	36,77	10 pcs.
E3 GRKHV 173 E3	173	148	0,35	0,6	1 SK 8X35 E3	166374	37,01	10 pcs.

for fixing wire mesh trays to horizontal and vertical steel girder flanges with a maximum thickness of 20 mm

Used for: wire mesh tray MTC... from width 100 mm

An alternating arrangement of the hook bolts guarantees a secure fastening of the wire mesh tray to the wire mesh tray fastening clamp.

A right-angled recess in the legs allows mounting on round support profiles or cable protection tubes $\leq \varnothing 30$ mm.

For horizontal mounting, an additional suspension can be made by means of threaded rod M 10/.... at the mounting clamp tip through a $\varnothing 11$ mm hole.

In addition, a screw distance clamp SASS 30 can be attached at the front.

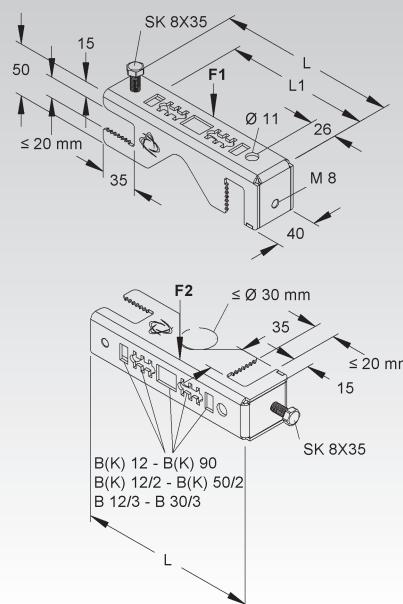
Through outlets in the horizontal support surface, it is possible to install up to 4 clamps B(K) 12 - 90 (depending on size) in register installation.

Screw tightening torque 8 Nm

Width across flats 13



KSA 203



Fixing Clamp for Wire Mesh Tray

horizontal

Model No.	Total length L mm	Support length L1 mm	Load rating F at L=1/2 kN	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F GRKH 153 F	153	101	0,5	1 SK 8X25 F	000098	41,14	10 pcs.
F GRKH 187 F	187	135	0,5	1 SK 8X25 F	000111	47,06	10 pcs.

for fixing of wire mesh tray onto flange (max. 20 mm) of horizontal steel beam

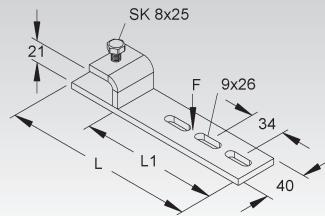
Used for: wire mesh tray MTC...

An alternating arrangement of the J-hook bolts ensures a reliable mounting of the wire mesh tray at the fixing clamp.

Bolting torque: 15 Nm



KSA 202



Fixing Clamp for Wire Mesh Tray

vertical

Model No.	Total length L mm	Support length L1 mm	Load rating F at L=1/2 kN	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F GRKV 132 F	132	99	0,5	1 SK 8X25 F	000081	42,9	10 pcs.
F GRKV 166 F	166	133	0,5	1 SK 8X25 F	000074	49,5	10 pcs.

for fixing of wire mesh tray onto flange (max. 20 mm) of horizontal steel beam

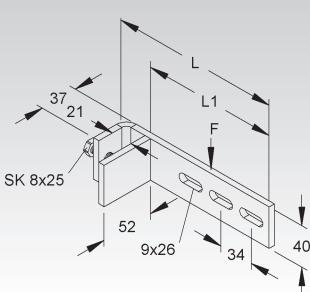
Used for: wire mesh tray MTC...

An alternating arrangement of the J-hook bolts ensures a reliable mounting of the wire mesh tray at the fixing clamp.

Bolting torque: 15 Nm



KSA 202



Clamping Piece

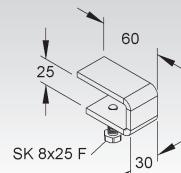
Model No.	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F GRK 25	1 SK 8x25 F	280902	18,29	50 pcs.

for horizontal clamp fastening of wire mesh trays with at least two longitudinal floor wires and a central longitudinal wire spacing of ≤ 50 mm on steel girder flanges with a thickness of ≤ 20 mm

Used for: wire mesh tray MTC... from width 100 mm



KSA 202



WIRE MESH TRAY SYSTEM

Beam Clamp

incl. slotted shoulder screw M8

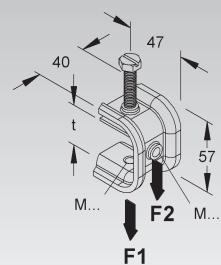
	Model No.	Thickness of flange (t) mm	Thread M	Vertical nominal load F1 kN	Vertical nominal load F2 kN	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F	PKS M6/10-40 F	6 - 35	6	1,8	1,6	133871	20,27	25 pcs.
F	PKS M8/10-40 F	6 - 35	8	1,8	1,6	077571	21,20	25 pcs.
E3	PKS M8/10-40 E3	6 - 35	8	1,8	1,6	126866	19,40	25 pcs.
E5	PKS M8/10-40 E5	6 - 35	8	1,8	1,6	126873	19,59	25 pcs.

for beam profiles with parallel flanges or slanted flanges with a maximum inclination of 14% as well as supply line to the energy consumers

Depending on the application different fixing material will be used.

Bolting torque: 4 Nm

Wrench size 13



Threaded Rod, M6

	Model No.	Length L mm	Resistance class	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V	M 6/1000	1000	4.6	4 SMU 6	919420	21,72	25 pcs.
E3	M 6/1000 E3	1000	1.4301	4 SMU 6 E3	107544	18,77	25 pcs.



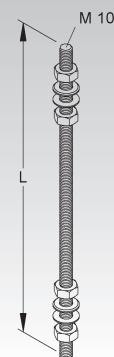
Threaded Rod, M8

	Model No.	Length L mm	Resistance class	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V	M 8/1000	1000	4.6	4 SMU 8	203505	35,1	25 pcs.
E3	M 8/1000 E3	1000	1.4301	4 SMU 8 E3	107568	35,1	25 pcs.



Threaded Rod, M10

	Model No.	Length L mm	Resistance class	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V	M 10/1000	1000	4.6	4 SMU 10	203208	56,40	25 pcs.
E3	M 10/1000 E3	1000	1.4301	4 SMU 10 E3	769902	56,42	25 pcs.



Center Hanger for Threaded Rod

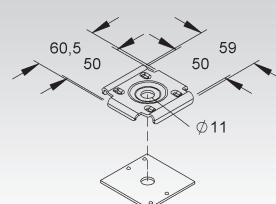
two-parts

	Model No.	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	GRKB 10	280704	10	25 pcs.
F	GRKB 10 F	280759	10	25 pcs.

for centered hanging of wire mesh tray (max. width of 300 mm) and a centered distance of cross-steel wire of 50 mm

Used for: wire mesh tray MTC... from width 100 mm

KSA 204



Trapeze Hanger for Wire Mesh Tray

	Model No.	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	GTAB 8 S	057924	7,0	20 pcs.
FG	GTAB 8 FG	136643	7,0	20 pcs.
E3	GTAB 8 E3	136629	7,0	20 pcs.
E4	GTAB 8 E4	136636	5,7	20 pcs.

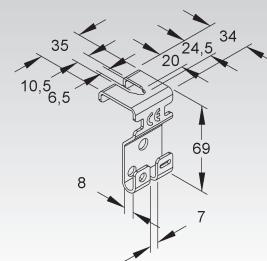
for a two-sided suspension by threaded rod

Used for: wire mesh tray MTC... up to maximum 6 mm wire thickness

The trapeze hanger be used between length-wire and cross-wire. For safety reason against popping out from the trapeze hanger the lugs have to be turned-over with a screw driver.



KSA 204



Center Support for Wire Mesh Tray

C-bracket

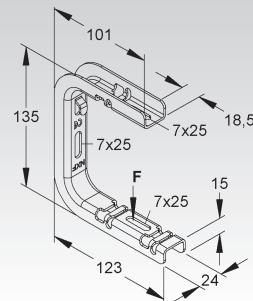
	Model No.	Load rating at L/2 kN	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	GTCB 50/100 S	0,2	136674	20	25 pcs.
FG	GTCB 50/100 FG	0,2	136667	20	25 pcs.
E3	GTCB 50/100 E3	0,2	136650	20	25 pcs.

Used for: wire mesh tray MTC 30.050, 30.100, 54.050 and 54.100

The load rating shown is only valid for proper anchorage in the building structure.



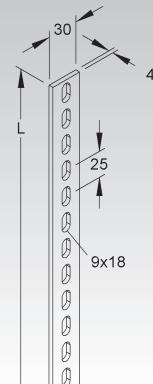
KSA 204



Extension for Wire Mesh Hanger

	Model No.	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F	GRTS 30/3 F	3000	895182	250,92	1 pc.

for extending of ceiling suspension/mounting bracket for wire mesh tray GRHB 30/150 F



Mounting Bracket for Wire Mesh Tray

single

	Model No.	Height H mm	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F	GRHB 30/150 F	71,5	86,5	895168	12,34	20 pcs.

for wall mounting of wire mesh tray (max. 100 mm)

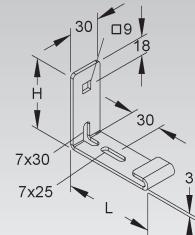
for centered or alternated ceiling suspension for wire mesh tray (max. 200 mm) in conjunction with one GRTS 30/3 F or one GRSH 30/... F

for double-sided arranged ceiling suspension for wire mesh tray (> 300 mm) in conjunction with GRTS 30/3 F or GRSH 30/... F

When large loads are placed in suspended wire mesh trays (> 200 mm) they must be supported against deflection.

Boltless fixing in the bottom of the wire mesh tray.

Use an extra J-hook GRSM 6 F to protect wire mesh tray from tilting. Please order separately.



WIRE MESH TRAY SYSTEM

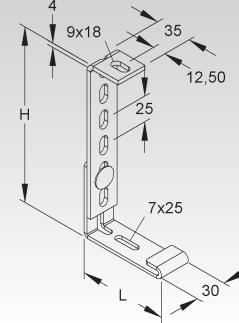
Standard Hanger for Wire Mesh Tray

Model No.	Height H mm	Length L mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F GRSH 30 F	170	86,5	1 FLM 8X16 F	895199	29,64	10 pcs.

for centered or staggered in reverse order hanging of wire mesh tray

Boltless fixing in the bottom of the wire mesh tray.

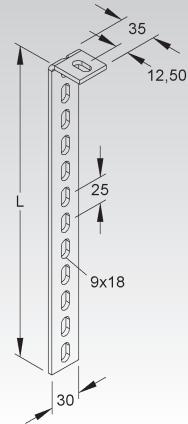
Use an extra J-hook GRSM 6 F to protect wire mesh tray from tilting. Please order separately.



Overhead Hanger for Wire Mesh Tray

Model No.	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F GRHS 30/150 F	150	909421	14,84	20 pcs.
F GRHS 30/200 F	200	909445	19,00	20 pcs.
F GRHS 30/300 F	300	909469	25,00	20 pcs.
F GRHS 30/400 F	400	909483	33,00	20 pcs.
F GRHS 30/500 F	500	909506	44,28	20 pcs.
F GRHS 30/600 F	600	909520	48,00	20 pcs.
F GRHS 30/700 F	700	909544	55,00	1 pc.
F GRHS 30/800 F	800	909568	63,00	1 pc.
F GRHS 30/900 F	900	909582	70,00	1 pc.
F GRHS 30/1000 F	1000	909605	88,00	1 pc.

for mounting on wall or ceiling



Wire Mesh Tray Ground Terminal

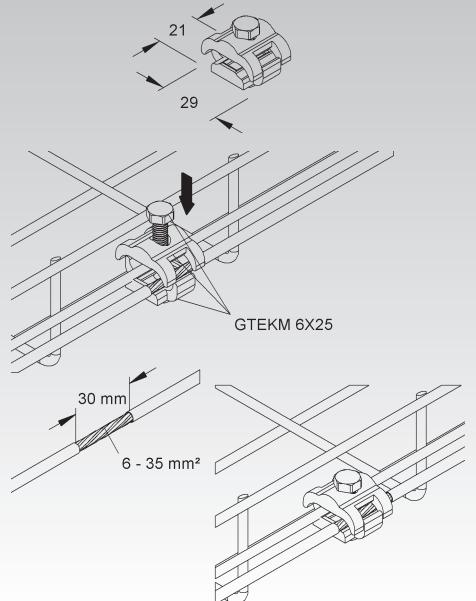
Model No.	Section mm ²	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
GTEKM 6X25	6 - 35	058068	5,1	25 pcs.

for the connection of equipotential bonding / earthing cables 6-35 mm²

for use in dry interiors

The thrust piece and the clamping plate are made of tinned brass, the screw is electro galvanised, blue passivated.

Used for: wire mesh tray MTC...



Ground Terminal

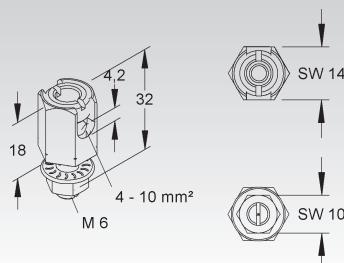
with serrated lock washer and toothed flange nut M6 acc. to DIN EN 1661 completely made of stainless steel

Model No.	Section mm ²	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
E10 MTEKM 4X10 E10	4 - 10	165643	2,45	25 pcs.

to ensure equipotential bonding of cable trays and all common cable trays with holes Ø 6 - Ø 7 mm for the connection of equipotential bonding / earthing cables, stranded or solid for indoor and outdoor use

Used for: wire mesh tray MTC.... and cable trays

In the case of an insulated conductor, the insulation must be removed over a length of 30 mm, it is possible to tension 2 x 6 mm².



Ground Terminal

incl. threaded rod M 12, 2 washers Ø 30 mm and screws M 6X12

Model No.	Section mm ²	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
MS MTEKM 6X25 MS	6 - 25	168125	3,85	20 pcs.

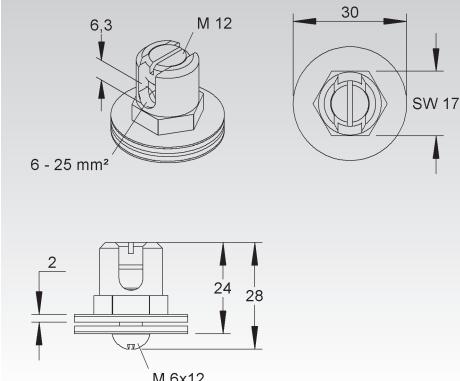
to ensure equipotential bonding in wire mesh trays with a central longitudinal wire spacing of max. 25 mm as well as all common wire mesh trays with bores Ø 6 - Ø 7 mm for the connection of equipotential bonding / earthing cables, stranded or solid for indoor and outdoor use

The clamp and the M12 threaded rod are made of tinned brass, the washers are made of stainless steel.

Made of copper-coated aluminium alloy and the M 6X12 screw made of galvanic galvanised steel, blue passivated.

Used for: wire mesh tray MTC.... and cable trays

In the case of an insulated conductor, the insulation must be removed over a length of 30 mm.

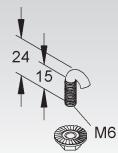


J-Hook Bolt

incl. serrated flange nut, similar to DIN EN 1661

Model No.	Thread M	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V GRSM 6 V	6	280506	1,16	50 pcs.
F GRSM 6 F	6	940554	1,16	50 pcs.
E3 GRSM 6 E3	6	343799	1,15	50 pcs.

for mounting of wire mesh trays



Slotted Pan Head Bolt, M6, acc. to DIN EN ISO 1580

incl. serrated flange nut, acc. to DIN EN 1661

Model No.	Thread M	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V ZKM 6X16	6	16	461103	0,1	100 pcs.



Mushroom Head Bolt, similar to DIN 603

incl. serrated flange nut, acc. to DIN EN 1661

Model No.	Thread M	Length L mm	Resistance class	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
G FLM 6X20 G	6	20	-	057948	0,9	100 pcs.
FG FLM 6X20 FG	6	20	-	057931	0,7	100 pcs.
E4 FLM 6X20 E4	6	20	-	101825	0,9	100 pcs.



Mushroom Head Bolt, similar to DIN 603

incl. serrated flange nut, acc. to DIN EN 1661

Model No.	Thread M	Length L mm	Resistance class	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F FLM 8X16 F	8	16	8.8	206704	2,09	50 pcs.

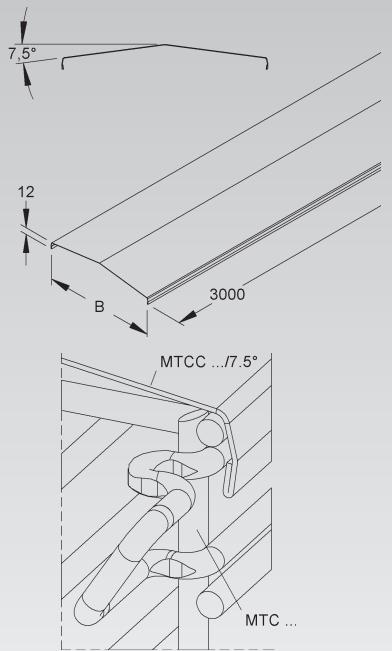


WIRE MESH TRAY SYSTEM

Cover for Wire Mesh Tray in Roof Shape

inclination angle 7,5°

	Model No.	Width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S	MTCC 50/7.5° S	62,5	0,50	154975	37,82	3 m
S	MTCC 100/7.5° S	111,0	0,75	154654	86,04	3 m
S	MTCC 150/7.5° S	161,0	0,75	154999	115,61	3 m
S	MTCC 200/7.5° S	213,0	0,75	154661	146,02	3 m
S	MTCC 300/7.5° S	315,0	0,90	154678	248,69	3 m
S	MTCC 400/7.5° S	416,0	0,90	154685	314,86	3 m
S	MTCC 500/7.5° S	517,0	1,00	155026	429,58	3 m
S	MTCC 600/7.5° S	617,0	1,00	155033	508,76	3 m
F	MTCC 50/7.5° F	62,5	0,50	154982	41,61	3 m
F	MTCC 100/7.5° F	111,0	0,75	154692	94,64	3 m
F	MTCC 150/7.5° F	161,0	0,75	155019	127,17	3 m
F	MTCC 200/7.5° F	213,0	0,75	154715	160,62	3 m
F	MTCC 300/7.5° F	315,0	0,90	154722	273,56	3 m
F	MTCC 400/7.5° F	416,0	0,90	154739	346,34	3 m
F	MTCC 500/7.5° F	517,0	1,00	155040	472,54	3 m
F	MTCC 600/7.5° F	617,0	1,00	155057	559,63	3 m
E3	MTCC 50/7.5° E3	62,5	0,50	155064	38,05	3 m
E3	MTCC 100/7.5° E3	111,0	0,80	155071	92,44	3 m
E3	MTCC 150/7.5° E3	161,0	0,80	155088	124,19	3 m
E3	MTCC 200/7.5° E3	213,0	0,80	155095	156,83	3 m
E3	MTCC 300/7.5° E3	315,0	0,80	155118	222,48	3 m
E3	MTCC 400/7.5° E3	416,0	0,80	155125	281,67	3 m
E3	MTCC 500/7.5° E3	517,0	1,00	155132	432,32	3 m
E3	MTCC 600/7.5° E3	617,0	1,00	155149	512,00	3 m
E4	MTCC 50/7.5° E4	62,5	0,50	159727	38,44	3 m
E4	MTCC 100/7.5° E4	111,0	0,80	159666	93,38	3 m
E4	MTCC 150/7.5° E4	161,0	0,80	159673	125,44	3 m
E4	MTCC 200/7.5° E4	213,0	0,80	159680	158,42	3 m
E4	MTCC 300/7.5° E4	315,0	0,80	159697	224,74	3 m
E4	MTCC 400/7.5° E4	416,0	0,80	159710	284,52	3 m
E4	MTCC 500/7.5° E4	517,0	1,00	159734	436,69	3 m
E4	MTCC 600/7.5° E4	617,0	1,00	159741	517,18	3 m



to snap-fit on U-shaped wire mesh trays

Used for: wire mesh tray MTC....

Cover MTCC... E4 on request.

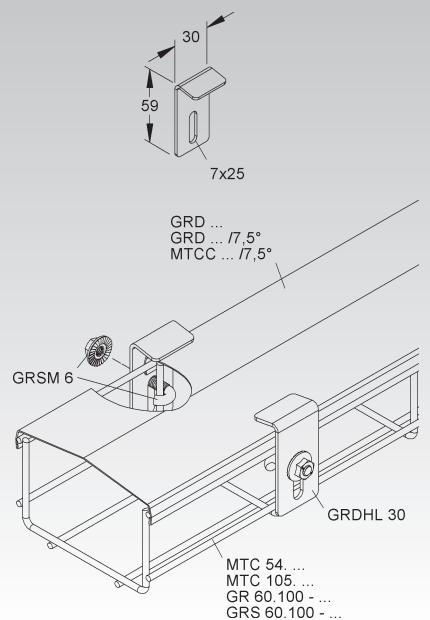
Retaining Bracket for Wire Mesh Tray Cover

	Model No.	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	GRDHL 30 S	126996	3,27	50 pcs.
F	GRDHL 30 F	075676	3,60	50 pcs.
E3	GRDHL 30 E3	092857	3,29	50 pcs.

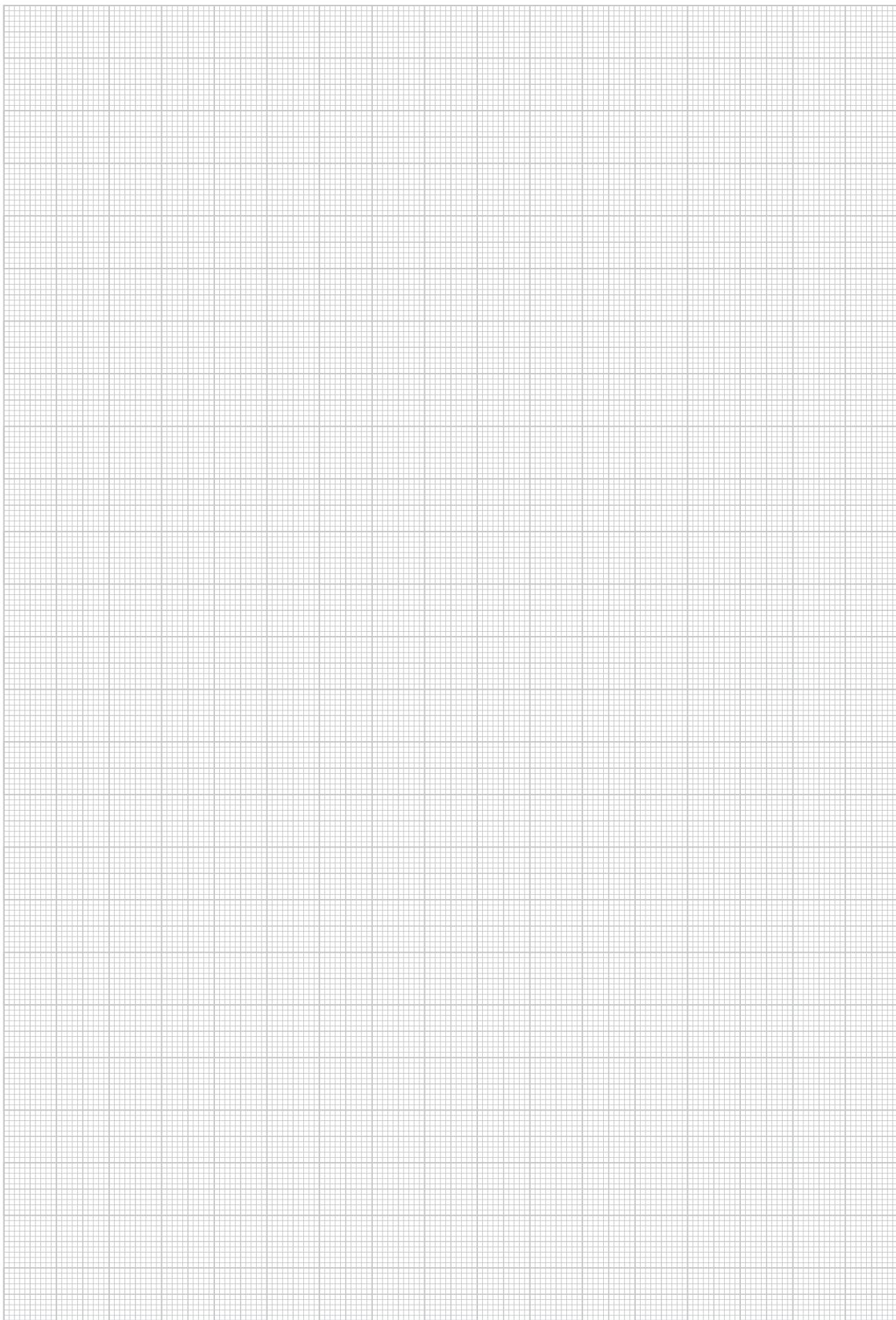
for fixing cable tray covers on U-shaped cable trays with at least two longitudinal wires on the sides

Used for: cover for wire mesh tray MTCC... /7,5°

The cover retaining bracket was designed to additionally secure the covers for vertical installation. In addition, it serves as wind protection in the outside area for vertical and horizontal installation. For fastening to the vertical cross wires of the cable trays, please order hook bolts GRSM 6 separately.

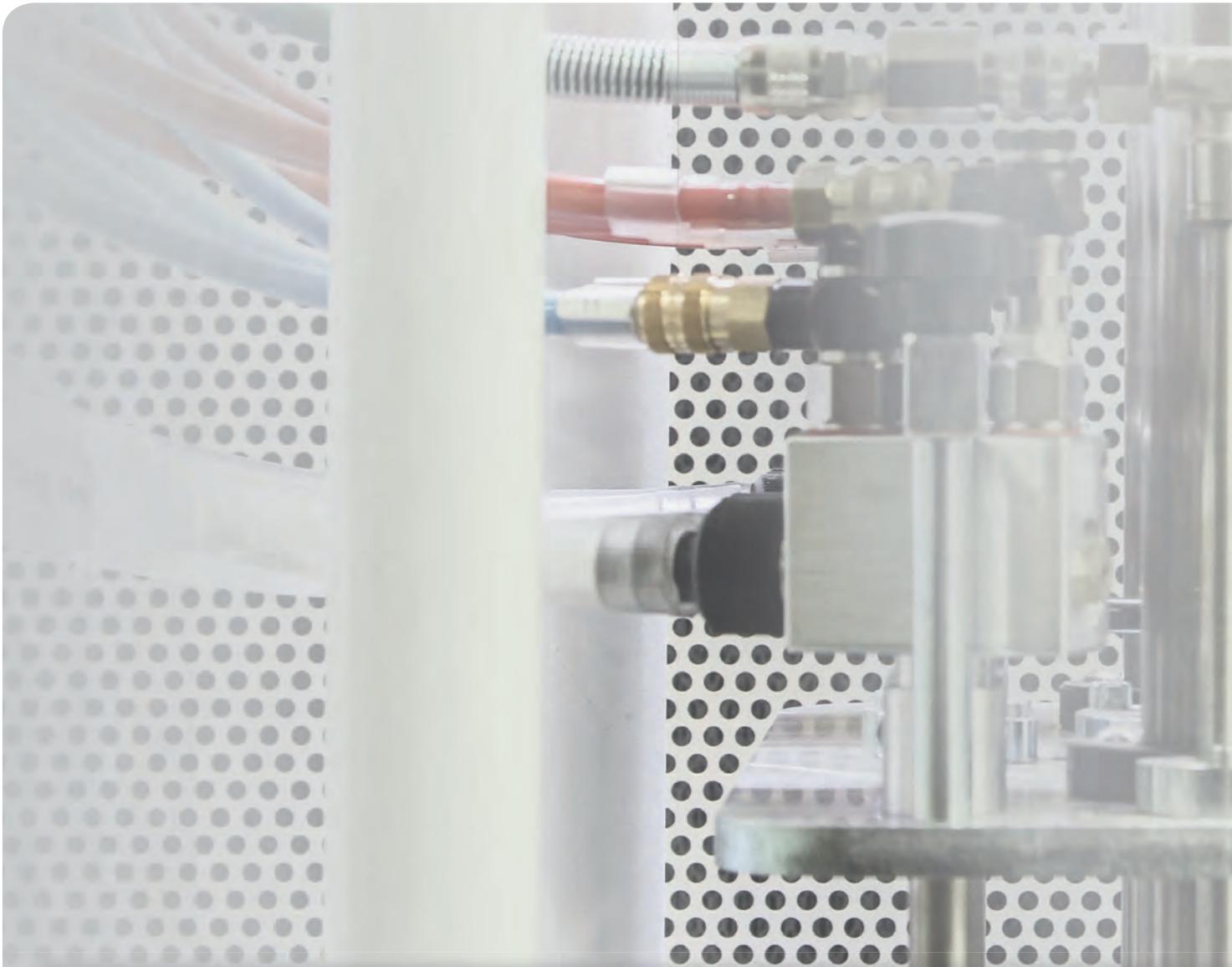


NOTES



A large rectangular area filled with a uniform grid pattern, intended for handwritten notes.





CABLE TRAY SYSTEM

Side rail heights ↑60 ↑85 ↑110

- Cable Tray
- Fittings
- Barrier Strips
- Covers
- Accessories





The cable tray system offers maximum flexibility and economy. The wide range guarantees that the most varied applications for cable and cable routing are covered. Size and design can be called up individually, special dimensions available on request. Accessories specially matched to the systems enable simple and flexible installation technology.

Thus, horizontal and vertical changes of direction can be easily carried out on site. Functional integrity of electrical cable systems according to DIN 4102 Part 12, 1998-11 can be found in our KF catalogue.

On the right you will find a selection of the most frequently used articles, more on the following pages.

RLCI 60...



RS 60...



RS 110...



RD... + RDHF 9 E2



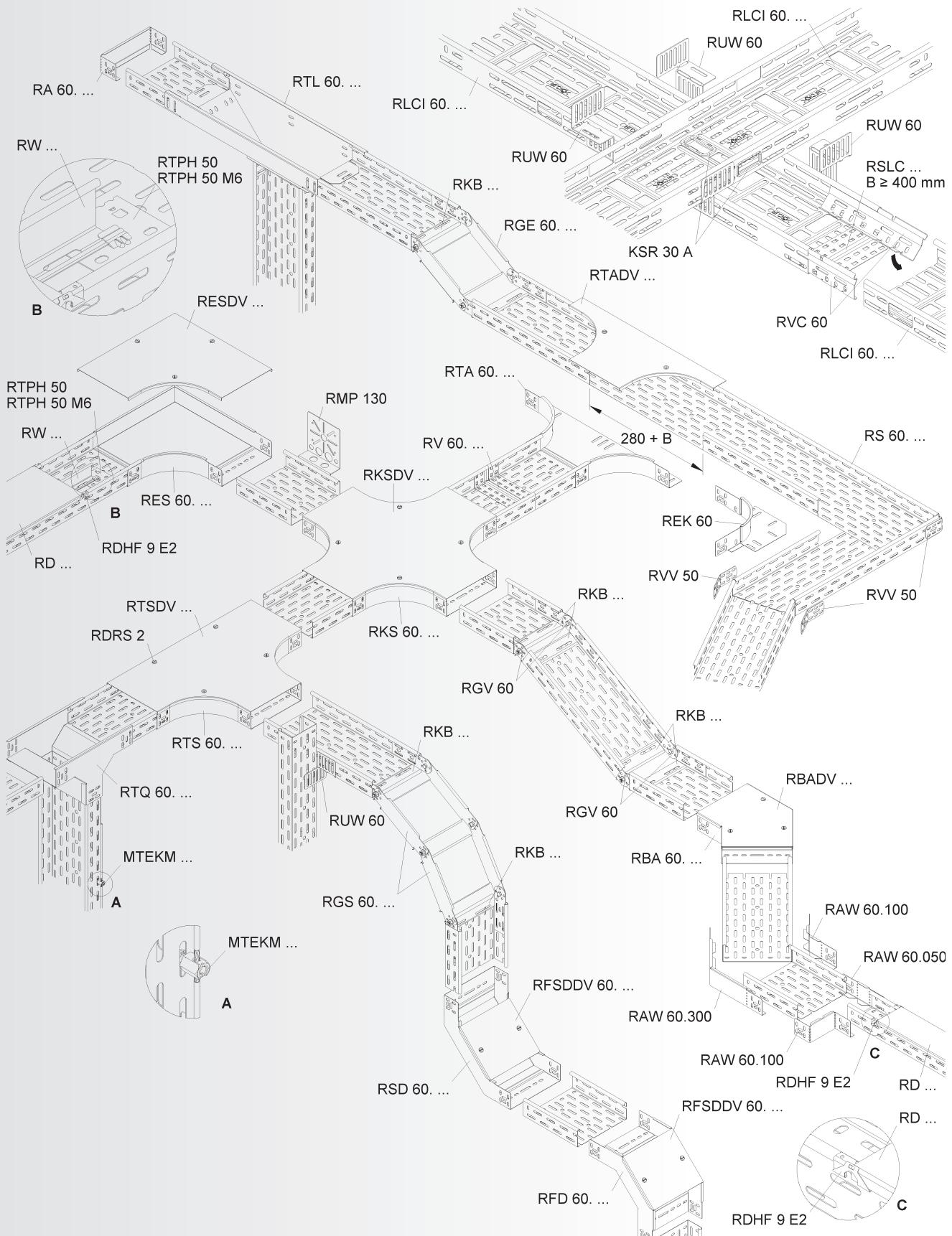
CABLE TRAY SYSTEM

System overview of the side height

60

SYSTEM	Industrial Cable Tray, 30% perforation	RLCI...	Page 74
	Heavy Duty Cable Tray	RS...	Page 75
ACCESSORIES	Boltless Splice Plate	RVC 60	Page 74
	Bottom Connection Plate	RSLC...	Page 74
	Edge Protection Ring	KSR 30 A	Page 75
	Splice Plate, in one piece	RV 60...	Page 75
	Universal Splice Plate	RVV 50	Page 76
	Universal Mounting Bracket	RUW 60 S	Page 76
	Barrier Strip	RW 60	Page 76
	Mounting Plate for Barrier Strip	RTPH...	Page 76
	Extension Horizontal Tee	RTA...	Page 77
	Extension Horizontal Elbow	REK...	Page 77
	Elbow 45°	RBA...	Page 77
	Elbow 90°	RES...	Page 77
	Horizontal Tee	RTS...	Page 78
	Horizontal Cross	RKS...	Page 78
	Reducer / Blind End	RA...	Page 78
	Adjustable Splice / Reducer / Blind End	RAW...	Page 78
	Adjustable Splice Plate	RGV 60	Page 79
	Splice / Link Kit	RGE...	Page 79
	Vertical Inside Elbow 90°	RSD...	Page 79
	Vertical Outside Elbow 90°	RFD...	Page 79
	Vertical Tee Down, lengthwise	RTL...	Page 80
	Vertical Tee Down, crosswise	RTQ...	Page 80
	Ground Terminal	MTEKM 4X10 E10	Page 80
	Ground Terminal	MTEKM 6X25 MS	Page 80
	Cover for Cable Tray	RD...	Page 97
	Cover Clamp	RDHF 9 E2	Page 97
	Cover for Horizontal Extension Tee	RTADV...	Page 97
	Cover for Elbow 45°	RBADV...	Page 97
	Cover for Elbow 90°	RESDV...	Page 98
	Cover for Horizontal Tee	RTSDV...	Page 98
	Cover for Horizontal Cross	RKS DV...	Page 98
	Cover for Vertical Outside Elbow Kit	RFSDDV...	Page 98
	Cover for Vertical Inside Elbow	RSDDV...	Page 99
	Cover for Vertical Outside Elbow Kit	RFDDV...	Page 99
	Turnbolt Lock	RDRS 2	Page 99
	Mushroom Head Bolt	FLM...	Page 100
	Mushroom Head Bolt	FLDM...	Page 100
	Mushroom Head Bolt	FLMU 6X20 F	Page 100
	Large Diameter Washer	UGM...	Page 100
	Hexagon Head Bolt	SKM...	Page 101





CABLE TRAY SYSTEM

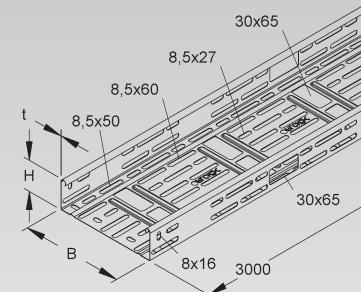
Industrial Cable Tray

30% perforation

	Model No.	Height H mm	Width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S	RLCI 60.100 S	60	100	0,9	135332	140,46	2 x 3 m
S	RLCI 60.200 S	60	200	0,9	135356	195,54	2 x 3 m
S	RLCI 60.300 S	60	300	1,0	135370	272,34	2 x 3 m
S	RLCI 60.400 S	60	400	1,0	144167	323,95	2 x 3 m
S	RLCI 60.500 S	60	500	1,0	144181	375,60	2 x 3 m
S	RLCI 60.600 S	60	600	1,0	144204	427,26	2 x 3 m



KSA 207



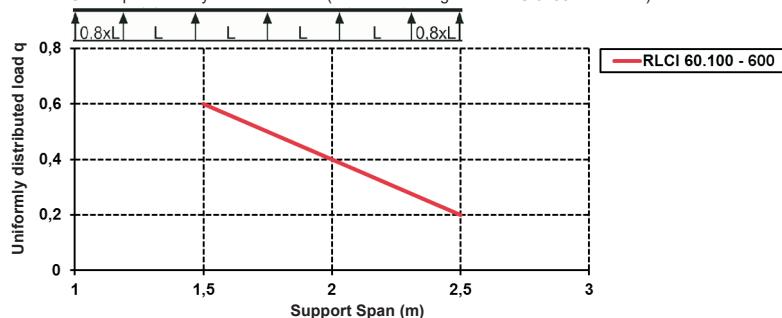
Attention: different hole patterns at different widths

System modules are possible to mount continuously, because of the staggered arranged side beams and bottom perforation.

Side and floor outlets of size 30x65 mm are provided for cable entry.

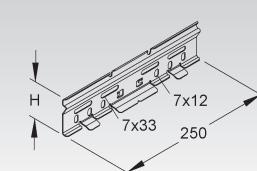
2 boltless splice plates RVC 60 are included with all cable trays for type RLCI 60....

Loaded Chart: q = uniformly distributed load (tested according to DIN IEC 61537 standard)



Boltless Splice Plate

	Model No.	Height H mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RVC 60	60	870523	16,96	50 pcs.



Requirement: 2 pieces per joint

Used for: cable trays RLCI 60...

Screwless, electrical and mechanical connection of the cable trays with positive locking at the joint, aligned in the longitudinal direction.

Simple installation by inserting the cable tray sides on both sides.

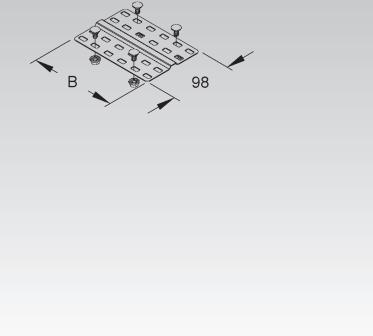
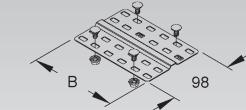
Bottom Connection Plate

	Model No.	Width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RSLC 100	41,5	4 FLM 6X12	917655	6,11	10 pcs.
S	RSLC 200	139,0	4 FLM 6X12	917662	12,85	10 pcs.
S	RSLC 300	239,0	4 FLM 6X12	917686	19,79	10 pcs.
S	RSLC 400	339,0	4 FLM 6X12	870608	26,73	10 pcs.
S	RSLC 500	439,0	4 FLM 6X12	870639	33,67	10 pcs.
S	RSLC 600	539,0	4 FLM 6X12	870660	40,61	10 pcs.

for stabilising the bottom plate of cable trays

Requirement: 1 piece per joint

Used for: cable trays RLCI 60... and RLCPV 85... OV



Edge Protection Ring

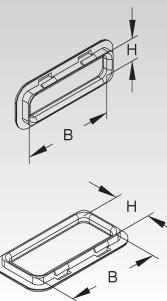
UV resistant

Model No.	Colour	Inside height H mm	Inside dimensions width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
K04 KSR 30 A	black	24	58	946778	0,38	20 pcs.

to protect cables at the knockouts after using the sheet metal punch W-BL...

The edge protection ring must be arranged in personal danger areas!

Used for: cable trays RLCI 60... and industrial ducts LI 60...



Heavy Duty Cable Tray

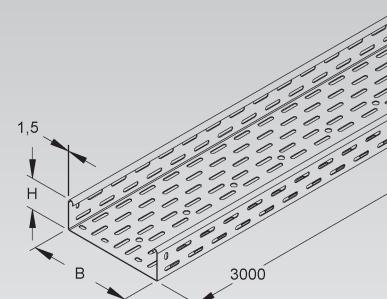
perforated

Model No.	Height H mm	Width B mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 m	Smallest packaging unit
S RS 60.100	60	100	1,5	8 FLM 6X12	222605	249,60	2 x 3 m
S RS 60.200	60	200	1,5	8 FLM 6X12	222803	349,94	2 x 3 m
S RS 60.300	60	300	1,5	10 FLM 6X12	223008	450,74	2 x 3 m
S RS 60.400	60	400	1,5	12 FLM 6X12	223206	551,56	2 x 3 m
S RS 60.500	60	500	1,5	12 FLM 6X12	223404	652,07	2 x 3 m
S RS 60.600	60	600	1,5	12 FLM 6X12	223602	787,00	2 x 3 m

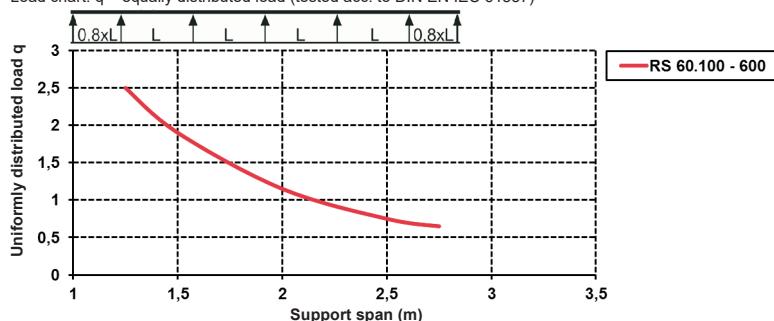
System modules are possible to mount continuously, because of the staggered arranged side beams and bottom perforation.

A continuous centre hole Ø 11 mm in the base allows additional fixing.

A RV 60... splice plate is supplied with each cable tray length of the RS 60... series.



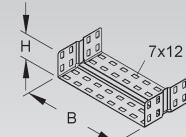
Load chart: q = equally distributed load (tested acc. to DIN EN IEC 61537)



Splice Plate, in one piece

U-shaped

Model No.	Height H mm	Width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RV 60.100	49	96	8 FLM 6X12	271702	17,64	1 pc.
S RV 60.200	49	196	8 FLM 6X12	271900	25,37	1 pc.
S RV 60.300	49	296	10 FLM 6X12	272105	31,51	1 pc.
S RV 60.400	49	396	12 FLM 6X12	272204	39,25	1 pc.
S RV 60.500	49	496	12 FLM 6X12	272303	45,38	1 pc.
S RV 60.600	49	596	12 FLM 6X12	272402	51,52	1 pc.



Compared to conventional joints, the one-piece U-shaped Niedax splice plate replaces three parts: 2 connection brackets and 1 joint strip.

For additional requirements.

Used for: cable trays RS...

Round-head screws, equipped with toothed flange nuts, facilitate installation and provide statically and electrically secure butt joints in the long term.

This joint connector is available for any cable tray length of the type serie RS... and is included in the price.

CABLE TRAY SYSTEM

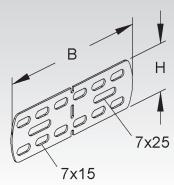
Universal Splice Plate

Model No.	Height H mm	Width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RVV 50	44	135	4 FLM 6X12	258604	8,7	20 pcs.

Requirement: 2 pieces per joint

Can be used for straight and angled joints

The versatile application possibilities of the universal splice plate create the prerequisites for assembly without fittings or as an application for unusual assembly cases.



Universal Mounting Bracket

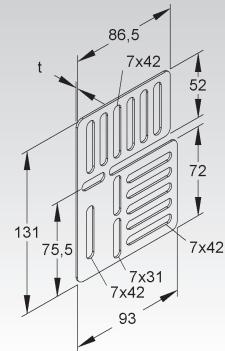
Model No.	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RUW 60 S	1,5	947454	8,73	20 pcs.

Used for: cable trays of edge height 60 mm

The universal mounting bracket can be used to form all kinds of special joints for cable tray and ladder as well as for box mounting or similar applications.



KSA 208

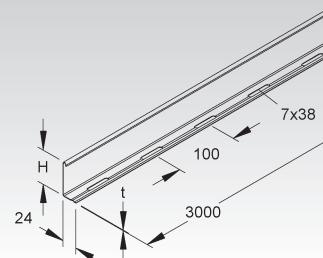


Barrier Strip

Model No.	Height H mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 m	Smallest packaging unit
S RW 60	55	0,75	4 FLM 6X12	225002	49,86	10 x 3 m

for the separation of wires and cables with different functions and/or voltages

The continuous perforation allows a stepless mounting.



Mounting Plate for Barrier Strip

Model No.	Length L mm	Width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RTPH 50	83	59	0,9	231973	3,36	20 pcs.

Used for: cable trays RS... (min. width 100 mm) and RLCI 60... (min. width 200 mm)

Insert the mounting plate into the cable trays by means of the clamping function of the tabs with the perforation of the cable tray. The barrier strip is locked in place by inserting it into the retaining strap of the mounting plate.



Mounting Plate for Barrier Strip

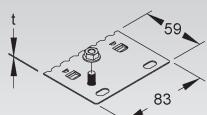
with threaded bolt M6

Model No.	Length L mm	Width B mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RTPH 50 M6	83	59	0,9	1 SMF6	961955	3,98	50 pcs.

Used for: cable trays RS... (min. width 100 mm) and RLCI 60... (min. width 200 mm) and distribution cable tray RLCPV 85... OV (min. width 200 mm)

Insert the mounting plate for barrier strips into the cable trays using the clamping function of the tabs with the perforation of the cable tray.

The barrier strip is fixed by means of threaded bolts M6 and flange nuts M6 for better load-bearing capacity.



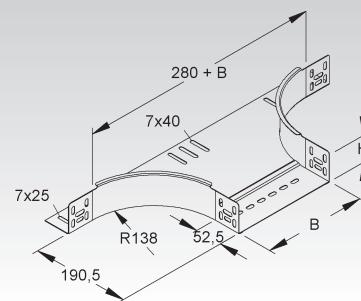
Extension Horizontal Tee

with non-perforated side rail, with integrated splice plates

	Model No.	Height H mm	Inside dimensions width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RTA 60.100	60	102	10 FLM 6X12	226801	79,21	1 pc.
S	RTA 60.200	60	202	10 FLM 6X12	227006	94,90	1 pc.
S	RTA 60.300	60	302	10 FLM 6X12	227204	113,06	1 pc.
S	RTA 60.400	60	402	10 FLM 6X12	227303	129,10	1 pc.
S	RTA 60.500	60	502	10 FLM 6X12	227402	145,50	1 pc.
S	RTA 60.600	60	602	10 FLM 6X12	227501	162,40	1 pc.

for creating horizontal 90° T-branches of cable trays of different and the same width

60



Extension Horizontal Elbow

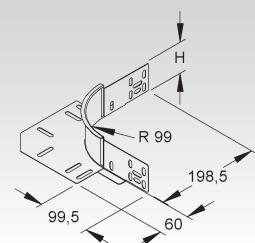
with non-perforated side rail, with integrated splice plates, with continuous cable support by overlapping bottom plate

	Model No.	Height H mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	REK 60	60	6 FLM 6X12	227600	31,67	10 pcs.

for creating horizontal 90° elbow and T-connections of cable trays

Used for: cable trays RLCI... and RS...

60



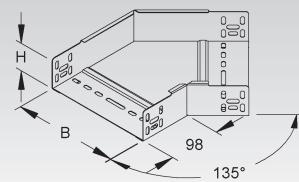
Elbow 45°

with non-perforated side rail, with integrated splice plates

	Model No.	Height H mm	Inside dimensions width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RBA 60.100	60	102	4 FLM 6X12	225200	42,90	1 pc.
S	RBA 60.200	60	202	5 FLM 6X12	225408	72,80	1 pc.
S	RBA 60.300	60	302	5 FLM 6X12	225606	109,10	1 pc.
S	RBA 60.400	60	402	6 FLM 6X12	225705	152,10	1 pc.
S	RBA 60.500	60	502	6 FLM 6X12	225804	205,43	1 pc.
S	RBA 60.600	60	602	6 FLM 6X12	225903	260,46	1 pc.

for creating 45° horizontally angled cable tray run

60



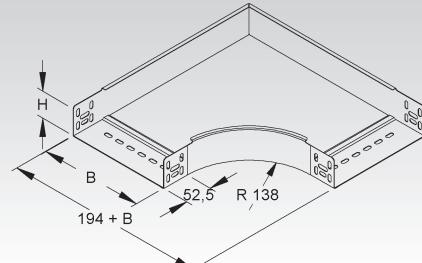
Elbow 90°

with non-perforated side rail, with integrated splice plates

	Model No.	Height H mm	Inside dimensions width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RES 60.100	60	102	4 FLM 6X12	226009	87,5	1 pc.
S	RES 60.200	60	202	5 FLM 6X12	226207	156,8	1 pc.
S	RES 60.300	60	302	5 FLM 6X12	226405	237,7	1 pc.
S	RES 60.400	60	402	6 FLM 6X12	226504	333,8	1 pc.
S	RES 60.500	60	502	6 FLM 6X12	226603	446,1	1 pc.
S	RES 60.600	60	602	6 FLM 6X12	226702	574,0	1 pc.

for creating horizontal 90° corner connections

60



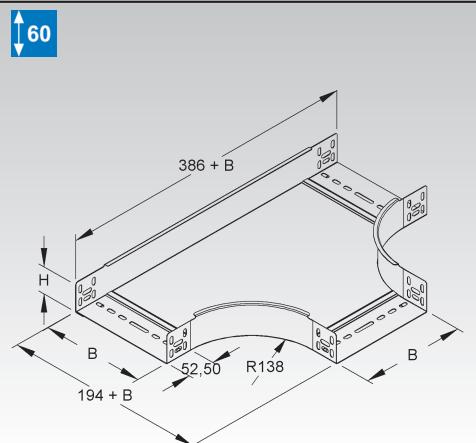
CABLE TRAY SYSTEM

Horizontal Tee

with non-perforated side rail, with integrated splice plates

	Model No.	Height H mm	Inside dimensions width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RTS 60.100	60	102	8 FLM 6X12	228805	115,40	1 pc.
S	RTS 60.200	60	202	10 FLM 6X12	229000	195,40	1 pc.
S	RTS 60.300	60	302	12 FLM 6X12	229208	294,80	1 pc.
S	RTS 60.400	60	402	12 FLM 6X12	229307	399,68	1 pc.
S	RTS 60.500	60	502	12 FLM 6X12	229406	511,90	1 pc.
S	RTS 60.600	60	602	12 FLM 6X12	229505	648,80	1 pc.

for creating horizontal 90° T-branches

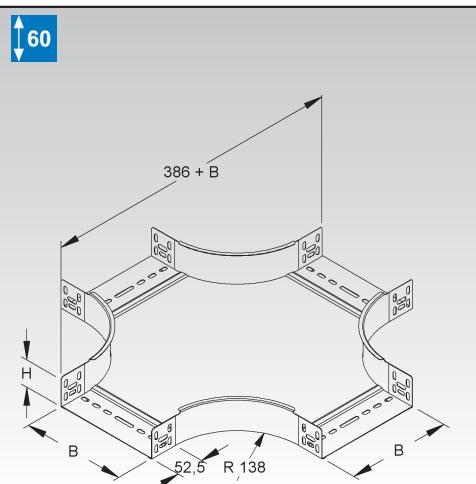


Horizontal Cross

with non-perforated side rail, with integrated splice plates

	Model No.	Height H mm	Inside dimensions width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RKS 60.100	60	102	12 FLM 6X12	229604	159,37	1 pc.
S	RKS 60.200	60	202	15 FLM 6X12	229802	233,70	1 pc.
S	RKS 60.300	60	302	15 FLM 6X12	230006	332,40	1 pc.
S	RKS 60.400	60	402	18 FLM 6X12	230105	460,47	1 pc.
S	RKS 60.500	60	502	18 FLM 6X12	230204	577,10	1 pc.
S	RKS 60.600	60	602	18 FLM 6X12	230303	722,90	1 pc.

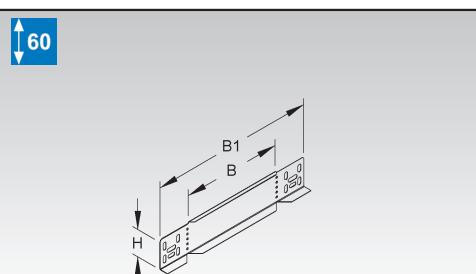
for creating horizontal 90° crossings



Reducer / Blind End

	Model No.	Height H mm	Width B mm	Width B1 mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RA 60.050	60	50	172	4 FLM 6X12	763108	11,1	20 pcs.
S	RA 60.200	60	200	322	4 FLM 6X12	763405	19,9	20 pcs.
S	RA 60.400	60	400	522	4 FLM 6X12	763801	31,8	20 pcs.
S	RA 60.500	60	500	622	4 FLM 6X12	763900	37,7	20 pcs.
S	RA 60.600	60	600	722	4 FLM 6X12	764006	43,7	20 pcs.

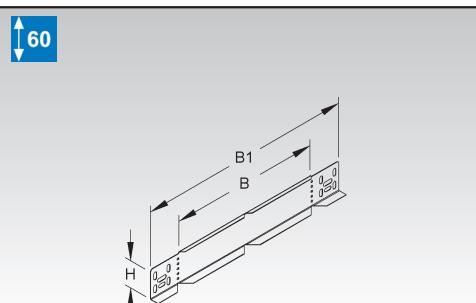
for terminating cable tray ends and for reducing and extending continuous cable trays



Adjustable Splice / Reducer / Blind End

	Model No.	Height H mm	Width B mm	Width B1 mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RAW 60.100	60	100	222	4 FLM 6X12	763207	13,00	20 pcs.
S	RAW 60.300	60	300	422	4 FLM 6X12	763603	25,76	20 pcs.

to form a closure for a dead end cable tray or for joining cable trays of different width
for terminating cable tray ends and for reducing and extending continuous cable trays



Adjustable Splice Plate

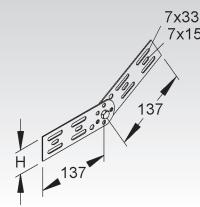
vertical

Model No.	Height H mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RGV 60	47	4 FLM 6X12	227709	19,23	50 pcs.

for the creation of vertical angular connections of continuous cable trays

Requirement: 2 pieces per joint

60



Splice / Link Kit

vertical

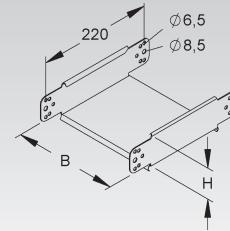
Model No.	Height H mm	Width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RGE 60.100	60	100	2 SKM 8X16 V	231201	52,51	1 pc.
S RGE 60.200	60	200	2 SKM 8X16 V	231409	62,79	1 pc.
S RGE 60.300	60	300	2 SKM 8X16 V	231607	73,07	1 pc.
S RGE 60.400	60	400	2 SKM 8X16 V	231706	83,35	1 pc.
S RGE 60.500	60	500	2 SKM 8X16 V	231805	93,63	1 pc.
S RGE 60.600	60	600	2 SKM 8X16 V	231904	103,91	1 pc.

for linking sections of tray with a vertical displacement

The base plates and side panels are provided with rounded edges to protect the cables at the transition.

Used for: individually or to increase the radius of RGV...

60



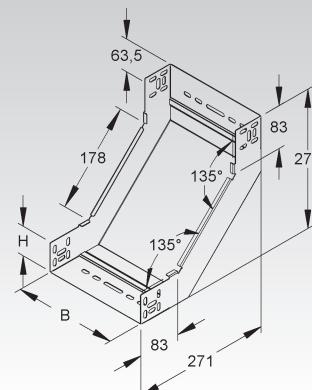
Vertical Inside Elbow 90°

with non-perforated side rail, with integrated splice plates

Model No.	Height H mm	Inside dimensions width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RSD 60.100	60	102	4 FLM 6X12	844418	78,00	1 pc.
S RSD 60.200	60	202	5 FLM 6X12	844449	113,30	1 pc.
S RSD 60.300	60	302	5 FLM 6X12	844463	147,68	1 pc.
S RSD 60.400	60	402	6 FLM 6X12	844470	182,98	1 pc.
S RSD 60.500	60	502	6 FLM 6X12	844487	217,36	1 pc.
S RSD 60.600	60	602	6 FLM 6X12	844494	251,74	1 pc.

for creating 2 x 45° vertically rising cable tray run

60



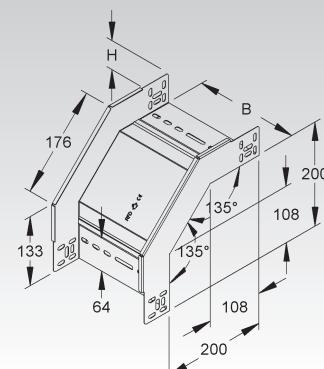
Vertical Outside Elbow 90°

with non-perforated side rail, with integrated splice plates

Model No.	Height H mm	Inside dimensions width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RFD 60.100	60	102	4 FLM 6X12	844319	71,70	1 pc.
S RFD 60.200	60	202	5 FLM 6X12	844340	99,22	1 pc.
S RFD 60.300	60	302	5 FLM 6X12	844364	125,95	1 pc.
S RFD 60.400	60	402	6 FLM 6X12	844371	153,47	1 pc.
S RFD 60.500	60	502	6 FLM 6X12	844388	180,19	1 pc.
S RFD 60.600	60	602	6 FLM 6X12	844395	206,91	1 pc.

for creating 2 x 45° vertically falling cable tray run

60



CABLE TRAY SYSTEM

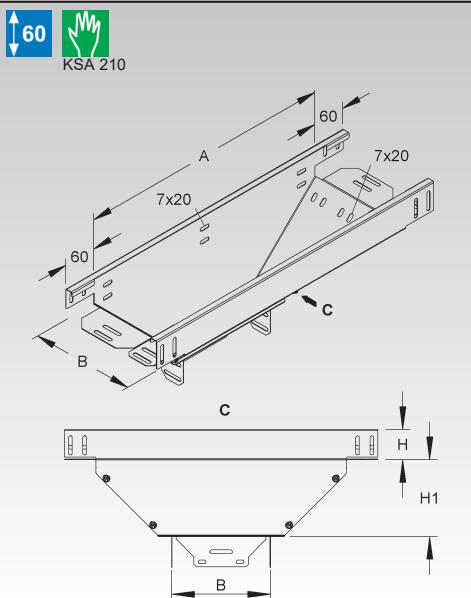
Vertical Tee Down, lengthwise

	Model No.	Height H mm	Inside dimensions width B mm	Length A mm	Height H1 mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RTL 60.100	60	102	360	131	16 FLM 6X12	793204	152,49	1 pc.
S	RTL 60.200	60	202	500	153	19 FLM 6X12	793228	263,28	1 pc.
S	RTL 60.300	60	302	780	244	21 FLM 6X12	793242	519,06	1 pc.
S	RTL 60.400	60	402	880	243	24 FLM 6X12	793266	664,44	1 pc.
S	RTL 60.500	60	502	980	243	24 FLM 6X12	793280	818,83	1 pc.
S	RTL 60.600	60	602	1080	243	24 FLM 6X12	793303	988,21	1 pc.

for the vertical branch along the main direction

Size of run and tap tray is identical.

Delivered as a kit (not assembled)



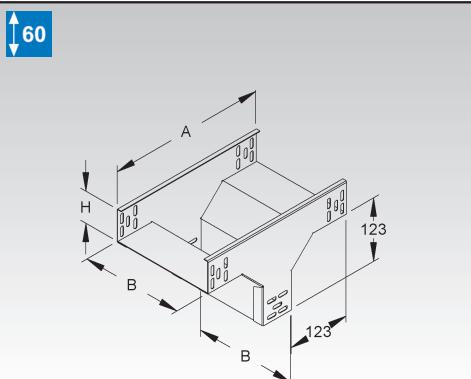
Vertical Tee Down, crosswise

with non-perforated side rail, with integrated splice plates

	Model No.	Height H mm	Inside dimensions width B mm	Length A mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RTQ 60.100	60	102	311	8 FLM 6X12	793327	100,75	1 pc.
S	RTQ 60.200	60	202	311	10 FLM 6X12	793341	136,91	1 pc.
S	RTQ 60.300	60	302	311	12 FLM 6X12	793365	173,07	1 pc.
S	RTQ 60.400	60	402	311	12 FLM 6X12	793389	207,63	1 pc.
S	RTQ 60.500	60	502	311	12 FLM 6X12	793402	242,19	1 pc.
S	RTQ 60.600	60	602	311	12 FLM 6X12	793426	276,75	1 pc.

for the vertical branch transverse (at right angles) to the main direction

Size of run and tap tray is identical.



Ground Terminal

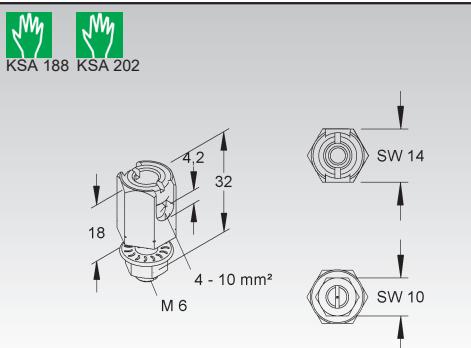
with serrated lock washer and toothed flange nut M6 acc. to DIN EN 1661 completely made of stainless steel

	Model No.	Section mm²	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
	E10 MTEKM 4X10 E10	4 - 10	165643	2,45	25 pcs.

to ensure equipotential bonding of cable trays and all common cable trays with holes Ø 6 - Ø 7 mm for the connection of equipotential bonding / earthing cables, stranded or solid for indoor and outdoor use

Used for: wire mesh tray MTC.... and cable trays

In the case of an insulated conductor, the insulation must be removed over a length of 30 mm, it is possible to tension 2 x 6 mm².



Ground Terminal

incl. threaded rod M 12, 2 washers Ø 30 mm and screws M 6X12

	Model No.	Section mm²	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
	MS MTEKM 6X25 MS	6 - 25	168125	3,85	20 pcs.

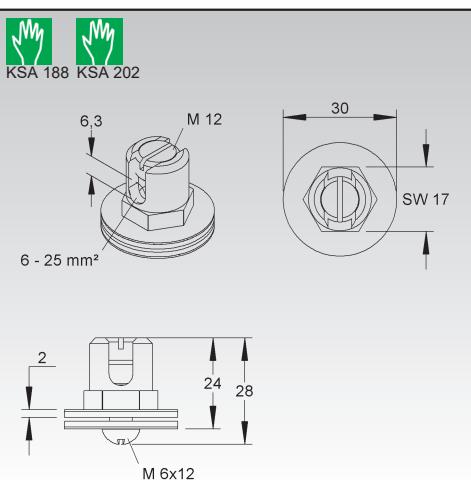
to ensure equipotential bonding in wire mesh trays with a central longitudinal wire spacing of max. 25 mm as well as all common wire mesh trays with bores Ø 6 - Ø 7 mm for the connection of equipotential bonding / earthing cables, stranded or solid for indoor and outdoor use

The clamp and the M12 threaded rod are made of tinned brass, the washers are made of stainless steel.

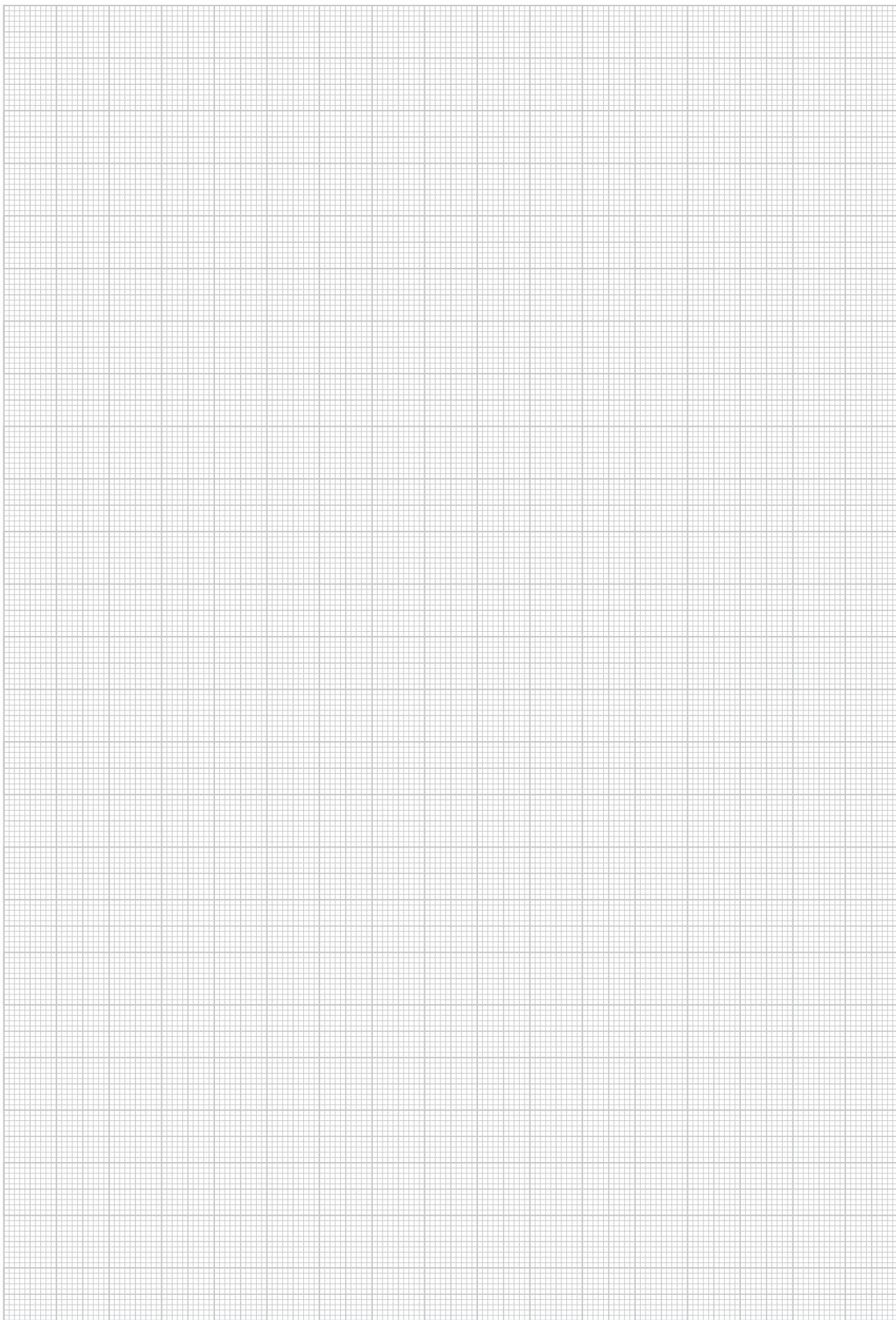
Made of copper-coated aluminium alloy and the M 6X12 screw made of galvanic galvanized steel, blue passivated.

Used for: wire mesh tray MTC.... and cable trays

In the case of an insulated conductor, the insulation must be removed over a length of 30 mm.



NOTES



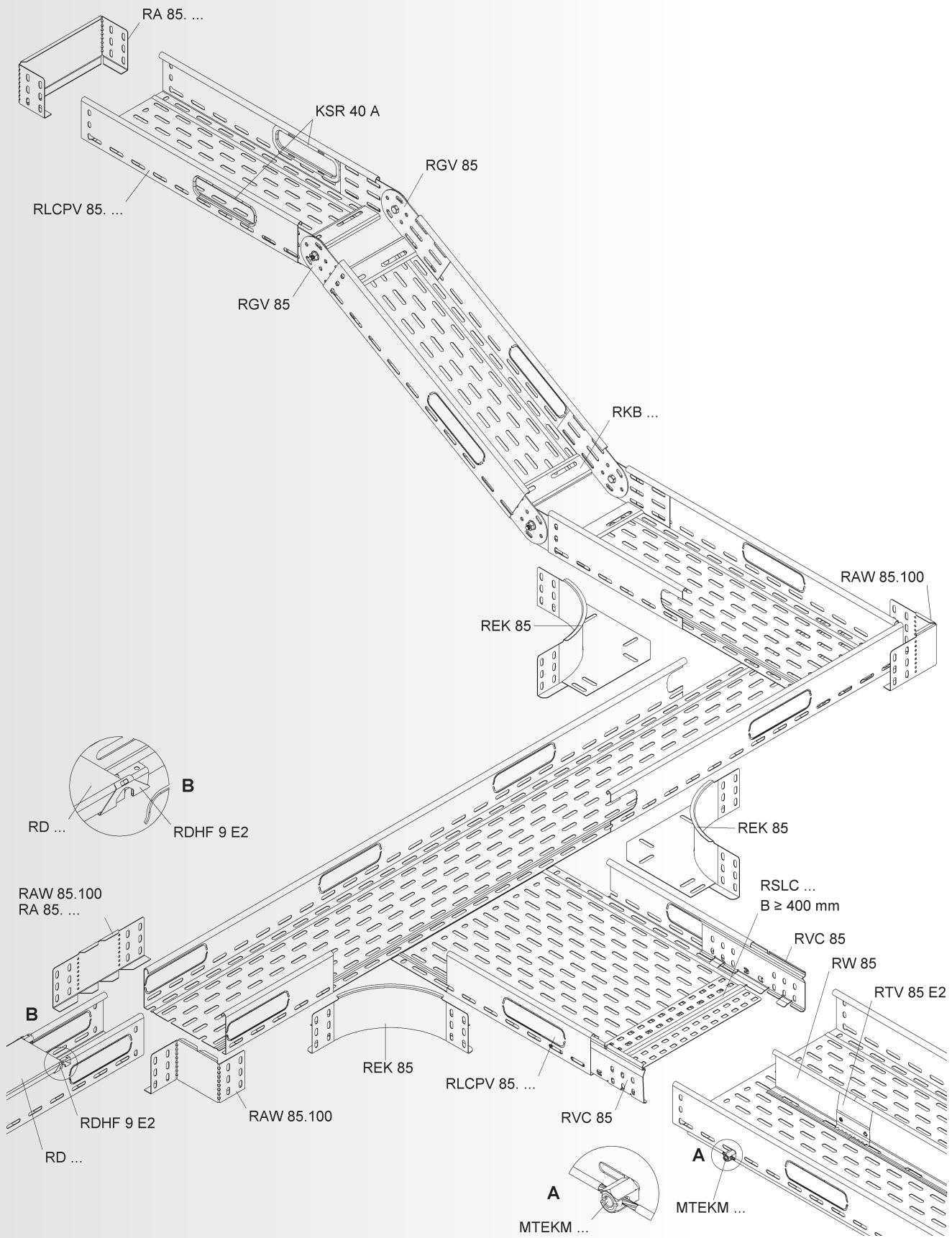
A large rectangular area filled with a uniform grid of small squares, intended for handwritten notes or drawings.

CABLE TRAY SYSTEM

System overview of the side height

SYSTEM	Distribution Cable Tray	RLCPV...	Page 84
ACCESSORIES	Boltless Splice Plate	RVC 85	Page 84
	Bottom Connection Plate	RSLC...	Page 84
	Edge Protection Ring	KSR 40 A	Page 85
	Barrier Strip	RW 85	Page 85
	Splice Plate for Barrier Strip	RTV 85 E2	Page 85
	Extension Horizontal Elbow	REK 85	Page 85
	Reducer / Blind End	RA...	Page 85
	Adjustable Splice / Reducer / Blind End	RAW...	Page 86
	Adjustable Splice Plate	RGV 85	Page 86
	Edge Protection Plate	RKB...	Page 86
	Ground Terminal	MTEKM 4X10 E10	Page 86
	Ground Terminal	MTEKM 6X25 MS	Page 87
	Cover for Cable Tray	RD...	Page 97
	Cover Clamp	RDHF 9 E2	Page 97
	Cover for Horizontal Extension Tee	RTADV...	Page 97
	Cover for Elbow 45°	RBADV...	Page 97
	Cover for Elbow 90°	RESDV...	Page 98
	Cover for Horizontal Tee	RTSDV...	Page 98
	Cover for Horizontal Cross	RKSDV...	Page 98
	Cover for Vertical Outside Elbow Kit	RFSDDV...	Page 98
	Cover for Vertical Inside Elbow	RSDDV...	Page 99
	Cover for Vertical Outside Elbow Kit	RFDDV...	Page 99
	Turnbolt Lock	RDRS 2	Page 99
	Mushroom Head Bolt	FLM...	Page 100
	Mushroom Head Bolt	FLDM...	Page 100
	Mushroom Head Bolt	FLMU 6X20 F	Page 100
	Large Diameter Washer	UGM...	Page 100
	Hexagon Head Bolt	SKM...	Page 101





CABLE TRAY SYSTEM

Distribution Cable Tray

perforated, splice plate not included

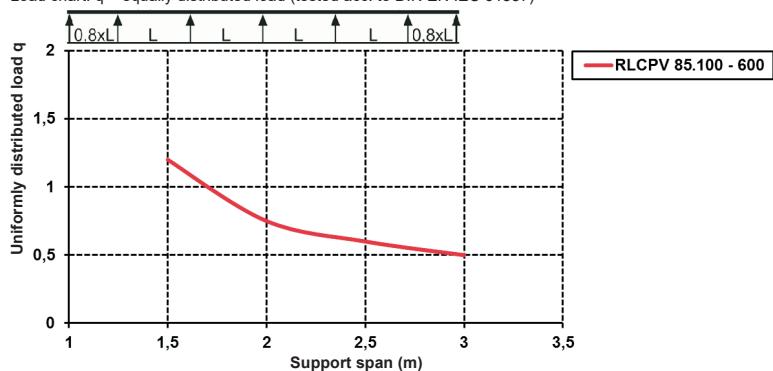
	Model No.	Height H mm	Width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S	RLCPV 85.100 OV	85	100	1	031610	210,65	2 x 3 m
S	RLCPV 85.200 OV	85	200	1	031627	276,15	2 x 3 m
S	RLCPV 85.300 OV	85	300	1	031634	341,65	2 x 3 m
S	RLCPV 85.400 OV	85	400	1	031641	407,15	2 x 3 m
S	RLCPV 85.500 OV	85	500	1	031658	472,65	2 x 3 m
S	RLCPV 85.600 OV	85	600	1	031665	538,15	2 x 3 m

The staggered floor perforations allow stepless fastening and connection of the system components. Continuous beads in the floor ensure a fast form-fit longitudinal connection by latching the screwless joint connectors RVC 85 with the side rails.

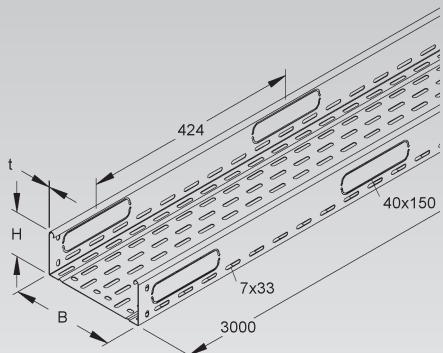
If required, the pre-punched side openings of 40x150 mm can be unscrewed for the cable feed-through.

Please order two RVC 85 splice plates for every piece of tray.

Load chart: $q = \text{equally distributed load (tested acc. to DIN EN IEC 61537)}$



KSA 209



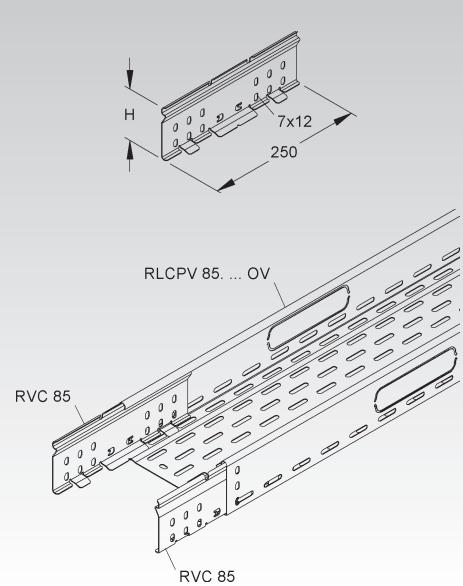
Boltless Splice Plate

	Model No.	Height H mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RVC 85	85	937158	23,54	50 pcs.

Used for: cable trays RLCPV... OV

Screwless, electrical and mechanical connection of the cable trays with positive locking at the joint, aligned in the longitudinal direction.

Simple installation by inserting the cable tray sides on both sides.



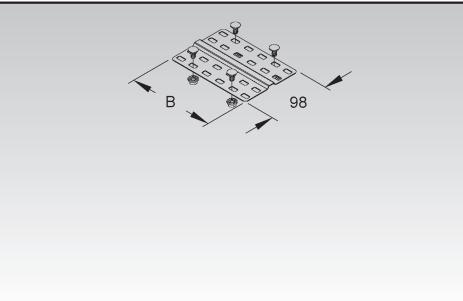
Bottom Connection Plate

	Model No.	Width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RSLC 400	339	4 FLM 6X12	870608	26,73	10 pcs.
S	RSLC 500	439	4 FLM 6X12	870639	33,67	10 pcs.
S	RSLC 600	539	4 FLM 6X12	870660	40,61	10 pcs.

for stabilising the bottom plate of cable trays

Requirement: 1 piece per joint

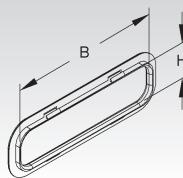
Used for: cable trays RLCI 60... and RLCPV 85... OV



Edge Protection Ring

UV resistant

Model No.	Colour	Inside height H mm	Inside dimensions width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
K04 KSR 40 A	black	34,5	144,5	946785	0,97	20 pcs.



to protect cables at the knockouts after using the sheet metal punch W-BL...

Used for: distribution cable tray RLCPV 85... OV

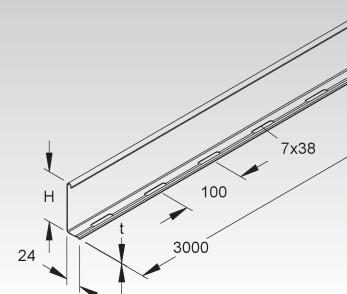
Barrier Strip

Model No.	Height H mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 m	Smallest packaging unit
S RW 85	80	0,9	4 FLM 6X12	237609	78,39	10 x 3 m

for the separation of wires and cables with different functions and/or voltages

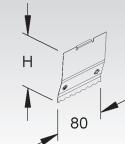
This barrier strip is not suitable for supporting the walkable cover.

The continuous perforation allows a stepless mounting.



Splice Plate for Barrier Strip

Model No.	Height H mm	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
E2 RTV 85 E2	79,5	80	237753	2,03	20 pcs.

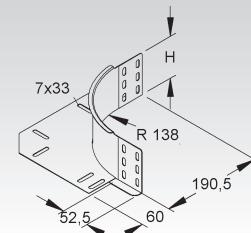


Extension Horizontal Elbow

with non-perforated side rail, with integrated splice plates, with continuous cable support by overlapping bottom plate

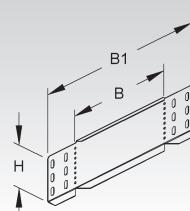
Model No.	Height H mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S REK 85	85	6 FLM 6X12	239603	46,07	1 pc.

for creating horizontal 90° elbow and T-connections of cable trays



Reducer / Blind End

Model No.	Height H mm	Width B mm	Width B1 mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RA 85.200	85	200	322	4 FLM 6X12	243341	28,17	20 pcs.
S RA 85.400	85	400	522	4 FLM 6X12	243365	45,24	20 pcs.
S RA 85.500	85	500	622	4 FLM 6X12	243372	54,17	20 pcs.
S RA 85.600	85	600	722	4 FLM 6X12	243389	62,30	20 pcs.



for terminating cable tray ends and for reducing and extending continuous cable trays

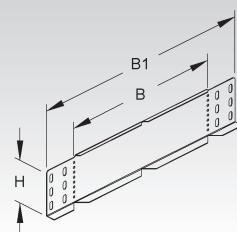
CABLE TRAY SYSTEM

Adjustable Splice / Reducer / Blind End

Model No.	Height H mm	Width B mm	Width B1 mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RAW 85.100	85	100	222	4 FLM 6X12	243334	27,97	20 pcs.
S RAW 85.300	85	300	422	4 FLM 6X12	243358	36,21	20 pcs.

to form a closure for a dead end cable tray or for joining cable trays of different width.
for terminating cable tray ends and for reducing and extending continuous cable trays

85



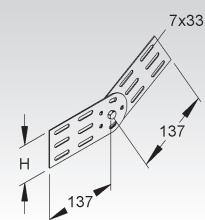
Adjustable Splice Plate

vertical

Model No.	Height H mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RGV 85	73	4 FLM 6x12	239702	29,63	25 pcs.

for creating vertical angle connections of continuous cable trays

85



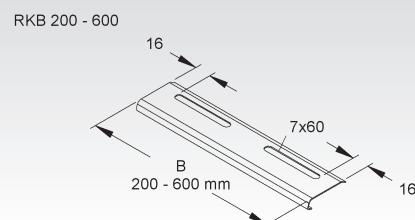
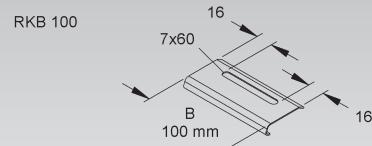
Edge Protection Plate

with rounded edges

Model No.	Width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RKB 100	92	1 FLM 6X12	270200	4,40	10 pcs.
S RKB 200	192	2 FLM 6X12	270408	9,13	10 pcs.
S RKB 300	292	2 FLM 6X12	270606	13,27	10 pcs.
S RKB 400	392	2 FLM 6X12	270705	17,40	10 pcs.
S RKB 500	492	2 FLM 6X12	270804	21,53	10 pcs.
S RKB 600	592	2 FLM 6X12	271009	25,67	10 pcs.

to reinforce the cable tray bottom
with rounded edges to protect cables at the joint

The edge protection plate must be arranged in personal danger areas! Attention: difference perforation patterns at different widths.



Ground Terminal

with serrated lock washer and toothed flange nut M6 acc. to DIN EN 1661 completely made of stainless steel

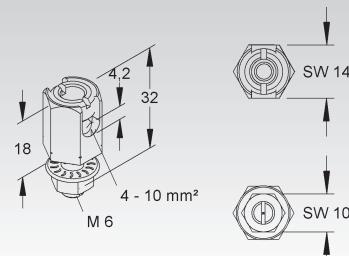
Model No.	Section mm ²	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
E10 MTEKM 4X10 E10	4 - 10	165643	2,45	25 pcs.

to ensure equipotential bonding of cable trays and all common cable trays with holes Ø 6 - Ø 7 mm
for the connection of equipotential bonding / earthing cables, stranded or solid
for indoor and outdoor use

Used for: wire mesh tray MTC.... and cable trays

In the case of an insulated conductor, the insulation must be removed over a length of 30 mm, it is
possible to tension 2 x 6 mm².

KSA 188 KSA 202



Ground Terminal

incl. threaded rod M 12, 2 washers Ø 30 mm and screws M 6X12

Model No.	Section mm ²	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
MS MTEKM 6X25 MS	6 - 25	168125	3,85	20 pcs.

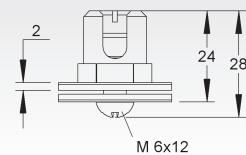
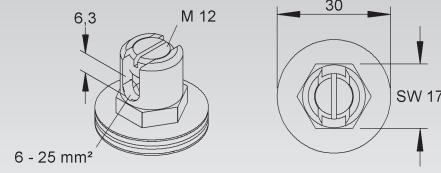
to ensure equipotential bonding in wire mesh trays with a central longitudinal wire spacing of max. 25 mm as well as all common wire mesh trays with bores Ø 6 - Ø 7 mm for the connection of equipotential bonding / earthing cables, stranded or solid for indoor and outdoor use

The clamp and the M12 threaded rod are made of tinned brass, the washers are made of stainless steel.

Made of copper-coated aluminium alloy and the M 6X12 screw made of galvanic galvanised steel, blue passivated.

Used for: wire mesh tray MTC.... and cable trays

In the case of an insulated conductor, the insulation must be removed over a length of 30 mm.

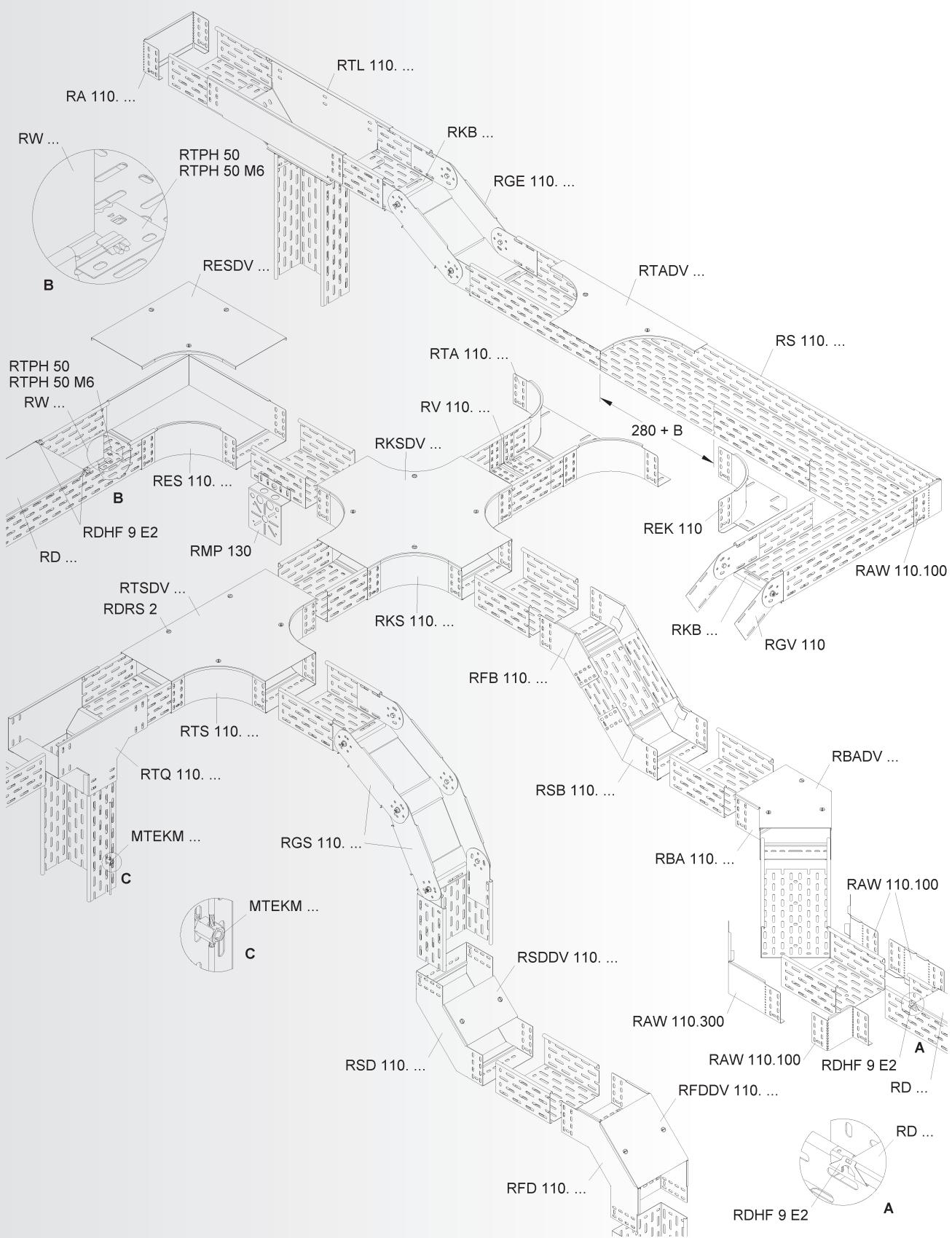


CABLE TRAY SYSTEM

System overview of the side height

SYSTEM	Heavy Duty Cable Tray	RS...	Page 90
ACCESSORIES	Splice Plate, in one piece	RV...	Page 90
	Barrier Strip	RW 110	Page 90
	Mounting Plate for Barrier Strip	RTPH...	Page 91
	Extension Horizontal Tee	RTA...	Page 91
	Extension Horizontal Elbow	REK 110	Page 91
	Elbow 45°	RBA...	Page 91
	Elbow 90°	RES...	Page 92
	Horizontal Tee	RTS...	Page 92
	Horizontal Cross	RKS...	Page 92
	Reducer / Blind End	RA...	Page 92
	Adjustable Splice / Reducer / Blind End	RAW...	Page 93
	Adjustable Splice Plate	RGV 110	Page 93
	Splice / Link Kit	RGE...	Page 93
	Vertical Inside Elbow 45°	RSB...	Page 93
	Vertical Inside Elbow 90°	RSD...	Page 94
	Vertical Outside Elbow 45°	RFB...	Page 94
	Vertical Outside Elbow 90°	RFD...	Page 94
	Vertical Tee Down, lengthwise	RTL...	Page 95
	Vertical Tee Down, crosswise	RTQ...	Page 95
	Mounting Plate	RMP 130	Page 95
	Edge Protection Plate	RKB...	Page 96
	Ground Terminal	MTEKM 4X10 E10	Page 96
	Ground Terminal	MTEKM 6X25 MS	Page 96
	Cover for Cable Tray	RD...	Page 97
	Cover Clamp	RDHF 9 E2	Page 97
	Cover for Horizontal Extension Tee	RTADV...	Page 97
	Cover for Elbow 45°	RBADV...	Page 97
	Cover for Elbow 90°	RESDV...	Page 98
	Cover for Horizontal Tee	RTSDV...	Page 98
	Cover for Horizontal Cross	RKSDV...	Page 98
	Cover for Vertical Outside Elbow Kit	RFSDV...	Page 98
	Cover for Vertical Inside Elbow	RSDDV...	Page 99
	Cover for Vertical Outside Elbow Kit	RFDDV...	Page 99
	Turnbolt Lock	RDRS 2	Page 99
	Mushroom Head Bolt	FLM...	Page 100
	Mushroom Head Bolt	FLDM...	Page 100
	Mushroom Head Bolt	FLMU 6X20 F	Page 100
	Large Diameter Washer	UGM...	Page 100
	Hexagon Head Bolt	SKM...	Page 101





CABLE TRAY SYSTEM

Heavy Duty Cable Tray

perforated

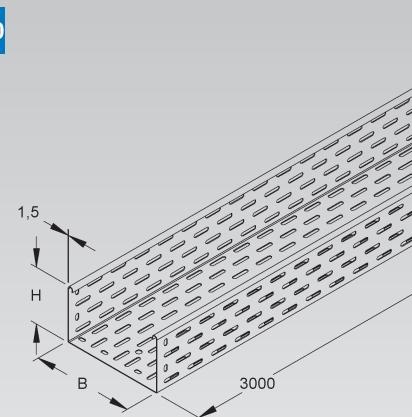
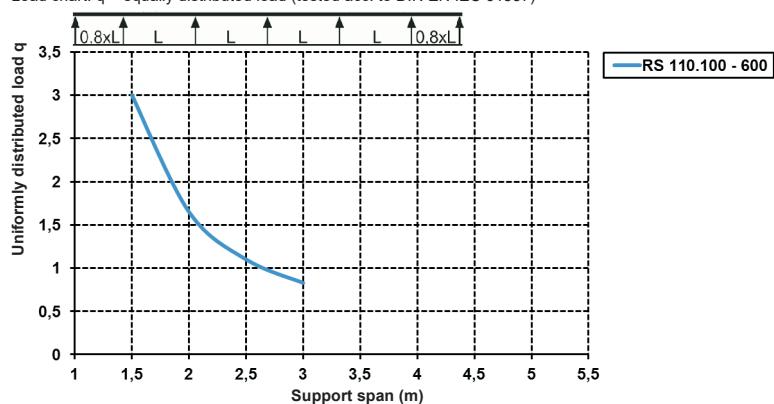
	Model No.	Height H mm	Width B mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 m	Smallest packaging unit
S	RS 110.100	110	100	1,5	8 FLM 6X12	245802	366,73	2 x 3 m
S	RS 110.200	110	200	1,5	10 FLM 6X12	246007	450,00	2 x 3 m
S	RS 110.300	110	300	1,5	10 FLM 6X12	246205	551,43	2 x 3 m
S	RS 110.400	110	400	1,5	12 FLM 6X12	246403	651,87	2 x 3 m
S	RS 110.500	110	500	1,5	12 FLM 6X12	246601	810,00	2 x 3 m
S	RS 110.600	110	600	1,5	12 FLM 6X12	140497	852,89	2 x 3 m

System modules are possible to mount continuously, because of the staggered arranged side beams and bottom perforation.

A continuous centre hole Ø 11 mm in the base allows additional fixing.

A RV 110... splice plate is supplied with each cable tray length of the RS 110... series.

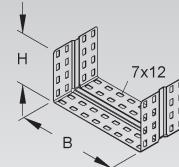
Load chart: q = equally distributed load (tested acc. to DIN EN IEC 61537)



Splice Plate, in one piece

U-shaped

	Model No.	Height H mm	Width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RV 110.100	99	97	8 FLM 6X12	273607	23,77	1 pc.
S	RV 110.200	99	197	10 FLM 6X12	273706	31,51	1 pc.
S	RV 110.300	99	297	10 FLM 6X12	273805	37,65	1 pc.
S	RV 110.400	99	397	12 FLM 6X12	273904	45,38	1 pc.
S	RV 110.500	99	497	12 FLM 6X12	274000	51,52	1 pc.
S	RV 110.600	99	597	12 FLM 6X12	274123	62,77	1 pc.



Compared to conventional joints, the one-piece U-shaped Niedax splice plate replaces three parts: 2 connection brackets and 1 joint strip.

For additional requirements.

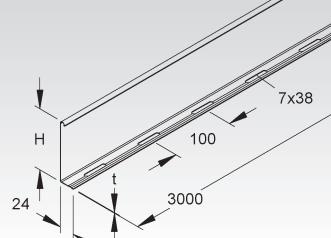
Used for: cable trays RS...

Round-head screws, equipped with toothed flange nuts, facilitate installation and provide statically and electrically secure butt joints in the long term.

This splice plate is supplied with each cable tray length of the RS... series and included in the price.

Barrier Strip

	Model No.	Height H mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 m	Smallest packaging unit
S	RW 110	98	0,9	4 FLM 6X12	251001	90,37	10 x 3 m



Mounting Plate for Barrier Strip

Model No.	Length L mm	Width B mm	Material thickness (t) mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RTPH 50	83	59	0,9	231973	3,36	20 pcs.

Used for: cable trays RS... (min. width 100 mm) and RLCI 60... (min. width 200 mm)

Insert the mounting plate into the cable trays by means of the clamping function of the tabs with the perforation of the cable tray. The barrier strip is locked in place by inserting it into the retaining strap of the mounting plate.



Mounting Plate for Barrier Strip

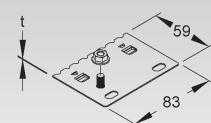
with threaded bolt M6

Model No.	Length L mm	Width B mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RTPH 50 M6	83	59	0,9	1 SMF6	961955	3,98	50 pcs.

Used for: cable trays RS... (min. width 100 mm) and RLCI 60... (min. width 200 mm) and distribution cable tray RLCPV 85... OV (min. width 200 mm)

Insert the mounting plate for barrier strips into the cable trays using the clamping function of the tabs with the perforation of the cable tray.

The barrier strip is fixed by means of threaded bolts M6 and flange nuts M6 for better load-bearing capacity.

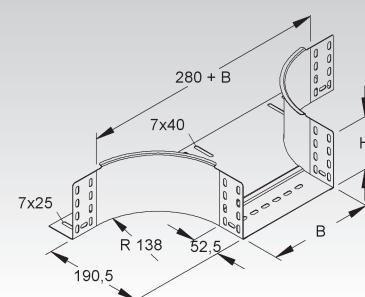


Extension Horizontal Tee

with non-perforated side rail, with integrated splice plates

Model No.	Height H mm	Inside dimensions width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RTA 110.100	110	102	10 FLM 6X12	252503	106,56	1 pc.
S RTA 110.200	110	202	10 FLM 6X12	252701	123,48	1 pc.
S RTA 110.300	110	302	10 FLM 6X12	252800	140,40	1 pc.
S RTA 110.400	110	402	10 FLM 6X12	252909	157,60	1 pc.
S RTA 110.500	110	502	10 FLM 6X12	253005	174,06	1 pc.
S RTA 110.600	110	602	10 FLM 6X12	253159	192,18	1 pc.

for creating horizontal 90° T-branches of cable trays of different and the same width

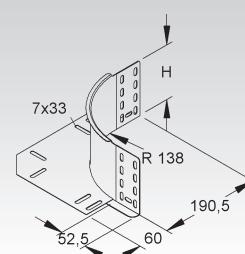


Extension Horizontal Elbow

with non-perforated side rail, with integrated splice plates, with continuous cable support by overlapping bottom plate

Model No.	Height H mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S REK 110	110	6 FLM 6X12	253203	51,84	1 pc.

for creating horizontal 90° elbow and T-connections of cable trays

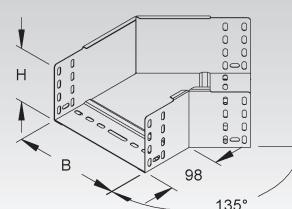


Elbow 45°

with non-perforated side rail, with integrated splice plates

Model No.	Height H mm	Inside dimensions width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RBA 110.100	110	102	4 FLM 6X12	251209	63,30	1 pc.
S RBA 110.200	110	202	5 FLM 6X12	251308	96,90	1 pc.
S RBA 110.300	110	302	5 FLM 6X12	251407	137,00	1 pc.
S RBA 110.400	110	402	6 FLM 6X12	251506	183,80	1 pc.
S RBA 110.500	110	502	6 FLM 6X12	251605	236,90	1 pc.
S RBA 110.600	110	602	6 FLM 6X12	947478	300,12	1 pc.

for creating 45° horizontally angled cable tray run



CABLE TRAY SYSTEM

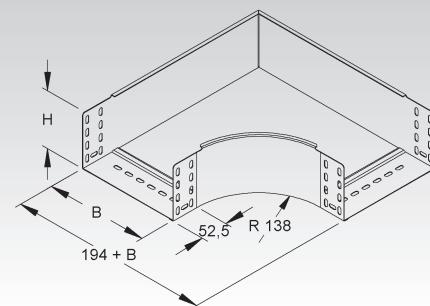
Elbow 90°

with non-perforated side rail, with integrated splice plates

	Model No.	Height H mm	Inside dimensions width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RES 110.100	110	102	4 FLM 6X12	251803	130,87	1 pc.
S	RES 110.200	110	202	5 FLM 6X12	251902	210,10	1 pc.
S	RES 110.300	110	302	5 FLM 6X12	252008	300,12	1 pc.
S	RES 110.400	110	402	6 FLM 6X12	252107	406,21	1 pc.
S	RES 110.500	110	502	6 FLM 6X12	252206	527,62	1 pc.
S	RES 110.600	110	602	6 FLM 6X12	252350	664,74	1 pc.

for creating horizontal 90° elbow connections

110



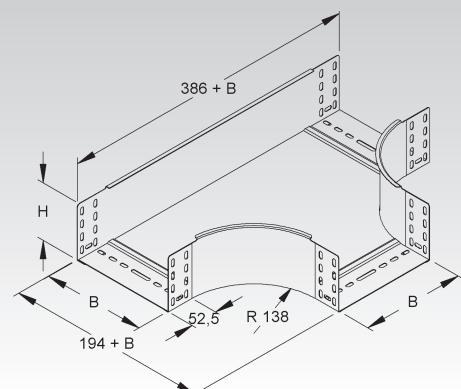
Horizontal Tee

with non-perforated side rail, with integrated splice plates

	Model No.	Height H mm	Inside dimensions width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RTS 110.100	110	102	8 FLM 6X12	254200	171,34	1 pc.
S	RTS 110.200	110	202	10 FLM 6X12	254309	257,52	1 pc.
S	RTS 110.300	110	302	10 FLM 6X12	254408	351,91	1 pc.
S	RTS 110.400	110	402	12 FLM 6X12	254507	463,60	1 pc.
S	RTS 110.500	110	502	12 FLM 6X12	254606	589,39	1 pc.
S	RTS 110.600	110	602	12 FLM 6X12	135769	732,32	1 pc.

for creating horizontal 90° T-branches

110



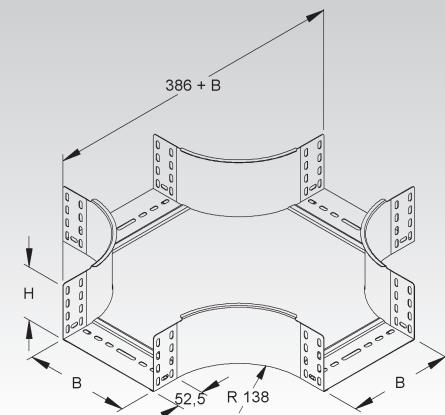
Horizontal Cross

with non-perforated side rail, with integrated splice plates

	Model No.	Height H mm	Inside dimensions width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RKS 110.100	110	102	12 FLM 6X12	254804	216,46	1 pc.
S	RKS 110.200	110	202	15 FLM 6X12	254903	301,93	1 pc.
S	RKS 110.300	110	302	15 FLM 6X12	255009	400,69	1 pc.
S	RKS 110.400	110	402	18 FLM 6X12	255108	517,56	1 pc.
S	RKS 110.500	110	502	18 FLM 6X12	255207	647,72	1 pc.
S	RKS 110.600	110	602	18 FLM 6X12	135745	797,59	1 pc.

for creating horizontal 90° crossings

110

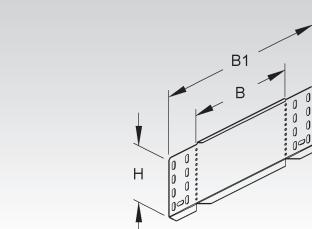


Reducer / Blind End

	Model No.	Height H mm	Width B mm	Width B1 mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RA 110.050	110	50	172	4 FLM 6X12	764105	18,64	20 pcs.
S	RA 110.200	110	200	322	4 FLM 6X12	764402	34,39	20 pcs.
S	RA 110.400	110	400	522	4 FLM 6X12	764808	55,38	20 pcs.
S	RA 110.500	110	500	622	4 FLM 6X12	764907	65,87	20 pcs.
S	RA 110.600	110	600	722	4 FLM 6X12	858606	76,37	20 pcs.

for terminating cable tray ends and for reducing and extending continuous cable trays

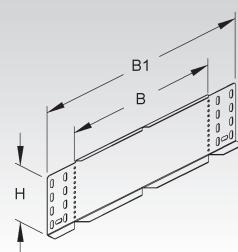
110



Adjustable Splice / Reducer / Blind End

Model No.	Height H mm	Width B mm	Width B1 mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RAW 110.100	110	100	222	4 FLM 6X12	764204	23,60	20 pcs.
S RAW 110.300	110	300	422	4 FLM 6X12	764600	44,59	20 pcs.

to form a closure for a dead end cable tray or for joining cable trays of different width for terminating cable tray ends and for reducing and extending continuous cable trays



↑110

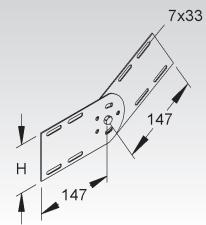
Adjustable Splice Plate

vertical

Model No.	Height H mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RGV 110	93	4 FLM 6X12	253302	40,99	25 pcs.

for creating vertical angle connections of continuous cable trays

Requirement: 2 pieces per joint



↑110

Splice / Link Kit

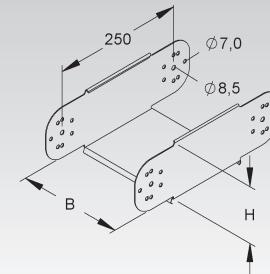
vertical

Model No.	Height H mm	Width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RGE 110.100	110	100	2 SKM 8X16 V	256006	97,55	1 pc.
S RGE 110.200	110	200	2 SKM 8X16 V	256105	107,83	1 pc.
S RGE 110.300	110	300	2 SKM 8X16 V	256204	118,11	1 pc.
S RGE 110.400	110	400	2 SKM 8X16 V	256303	128,39	1 pc.
S RGE 110.500	110	500	2 SKM 8X16 V	256402	138,67	1 pc.
S RGE 110.600	110	600	2 SKM 8X16 V	140374	148,94	1 pc.

for linking sections of tray with a vertical displacement

The base plates and side panels are provided with rounded edges to protect the cables at the transition.

Used for: individually or to increase the radius of RGV...



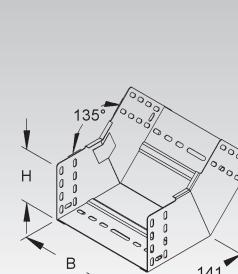
↑110

Vertical Inside Elbow 45°

with non-perforated side rail, with integrated splice plates

Model No.	Height H mm	Inside dimensions width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S RSB 110.100	110	102	4 FLM 6X12	814008	70,30	1 pc.
S RSB 110.200	110	202	5 FLM 6X12	814107	91,80	1 pc.
S RSB 110.300	110	302	5 FLM 6X12	814152	113,40	1 pc.
S RSB 110.400	110	402	6 FLM 6X12	814206	134,90	1 pc.
S RSB 110.500	110	502	6 FLM 6X12	814251	159,16	1 pc.
S RSB 110.600	110	602	6 FLM 6X12	140381	181,57	1 pc.

for creating 45° vertically rising cable tray run



↑110

CABLE TRAY SYSTEM

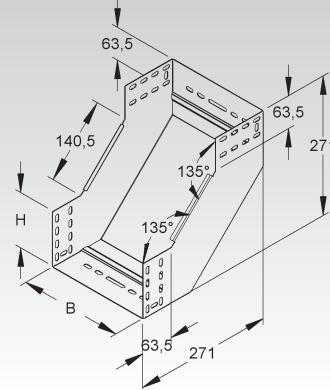
Vertical Inside Elbow 90°

with non-perforated side rail, with integrated splice plates

	Model No.	Height H mm	Inside dimensions width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RSD 110.100	110	102	4 FLM 6X12	928200	100,16	1 pc.
S	RSD 110.200	110	202	5 FLM 6X12	928224	135,46	1 pc.
S	RSD 110.300	110	302	5 FLM 6X12	928248	169,84	1 pc.
S	RSD 110.400	110	402	6 FLM 6X12	928262	205,14	1 pc.
S	RSD 110.500	110	502	6 FLM 6X12	928286	239,52	1 pc.
S	RSD 110.600	110	602	6 FLM 6X12	928309	273,90	1 pc.

for creating 2 x 45° vertically rising cable tray run

↑110



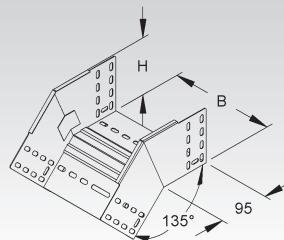
Vertical Outside Elbow 45°

with non-perforated side rail, with integrated splice plates

	Model No.	Height H mm	Inside dimensions width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RFB 110.100	110	102	4 FLM 6X12	814350	62,00	1 pc.
S	RFB 110.200	110	202	5 FLM 6X12	814459	76,50	1 pc.
S	RFB 110.300	110	302	5 FLM 6X12	814503	91,00	1 pc.
S	RFB 110.400	110	402	6 FLM 6X12	814558	105,40	1 pc.
S	RFB 110.500	110	502	6 FLM 6X12	814602	122,80	1 pc.
S	RFB 110.600	110	602	6 FLM 6X12	140367	137,99	1 pc.

for creating 45° vertically falling cable tray run

↑110



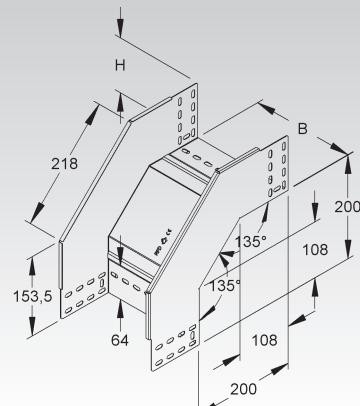
Vertical Outside Elbow 90°

with non-perforated side rail, with integrated splice plates

	Model No.	Height H mm	Inside dimensions width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RFD 110.100	110	102	4 FLM 6X12	927722	106,26	1 pc.
S	RFD 110.200	110	202	5 FLM 6X12	927746	133,78	1 pc.
S	RFD 110.300	110	302	5 FLM 6X12	927760	160,51	1 pc.
S	RFD 110.400	110	402	6 FLM 6X12	927784	188,59	1 pc.
S	RFD 110.500	110	502	6 FLM 6X12	927807	214,75	1 pc.
S	RFD 110.600	110	602	6 FLM 6X12	927821	241,48	1 pc.

for creating of 2 x 45° vertically falling cable tray run

↑110



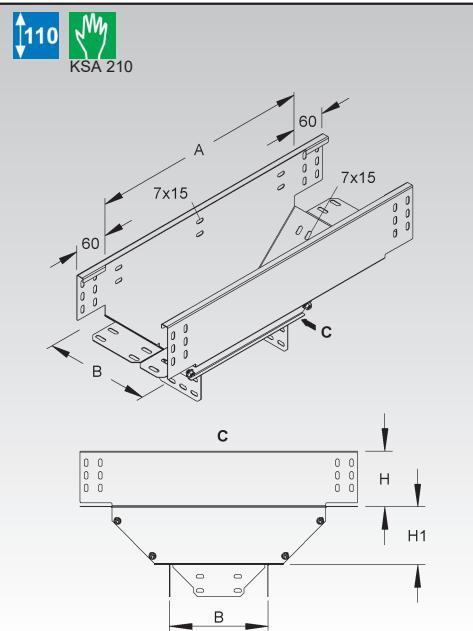
Vertical Tee Down, lengthwise

	Model No.	Height H mm	Inside dimensions width B mm	Length A mm	Height H1 mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RTL 110.200	110	202	430	118	19 FLM 6X12	793822	264,54	1 pc.
S	RTL 110.300	110	302	630	168	21 FLM 6X12	793846	446,99	1 pc.
S	RTL 110.400	110	402	730	168	24 FLM 6X12	793860	575,62	1 pc.
S	RTL 110.500	110	502	830	168	24 FLM 6X12	793884	712,49	1 pc.
S	RTL 110.600	110	602	930	168	24 FLM 6X12	140435	868,26	1 pc.

for the vertical branch along the main direction

Size of run and tap tray is identical.

Delivered as a kit (not assembled)



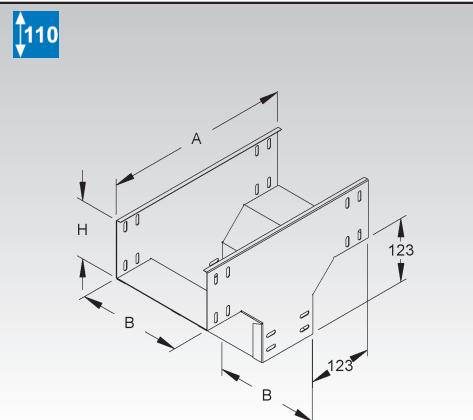
Vertical Tee Down, crosswise

with non-perforated side rail, with integrated splice plates

	Model No.	Height H mm	Inside dimensions width B mm	Length A mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RTQ 110.100	110	102	361	8 FLM 6X12	793921	144,98	1 pc.
S	RTQ 110.200	110	202	361	10 FLM 6X12	793945	181,14	1 pc.
S	RTQ 110.300	110	302	361	10 FLM 6X12	793969	215,70	1 pc.
S	RTQ 110.400	110	402	361	12 FLM 6X12	793983	251,86	1 pc.
S	RTQ 110.500	110	502	361	12 FLM 6X12	794003	286,42	1 pc.
S	RTQ 110.600	110	602	361	12 FLM 6X12	140398	322,42	1 pc.

for the vertical branch transverse (at right angles) to the main direction

Size of run and tap tray is identical.

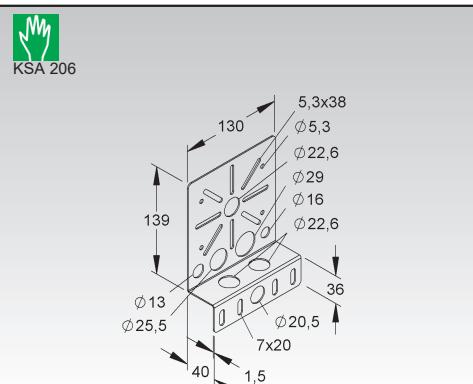


Mounting Plate

	Model No.	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RMP 130	2 FLM 6X12	206148	27,9	10 pcs.

for mounting distribution or junction boxes

Mounting accessories required for mounting on wire mesh trays 2 x GRSM 6 please order separately.



CABLE TRAY SYSTEM

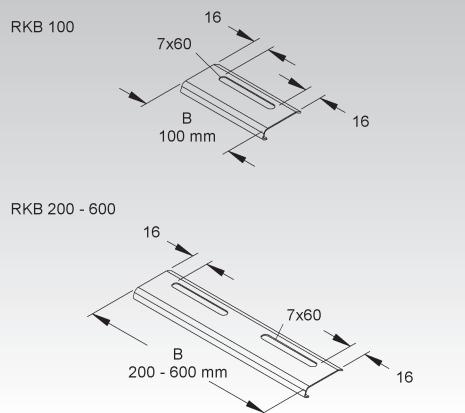
Edge Protection Plate

with rounded edges

	Model No.	Width B mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RKB 100	92	1 FLM 6X12	270200	4,40	10 pcs.
S	RKB 200	192	2 FLM 6X12	270408	9,13	10 pcs.
S	RKB 300	292	2 FLM 6X12	270606	13,27	10 pcs.
S	RKB 400	392	2 FLM 6X12	270705	17,40	10 pcs.
S	RKB 500	492	2 FLM 6X12	270804	21,53	10 pcs.
S	RKB 600	592	2 FLM 6X12	271009	25,67	10 pcs.

to reinforce the cable tray bottom
with rounded edges to protect cables at the joint

The edge protection plate must be arranged in personal danger areas! Attention: difference perforation patterns at different widths.



Ground Terminal

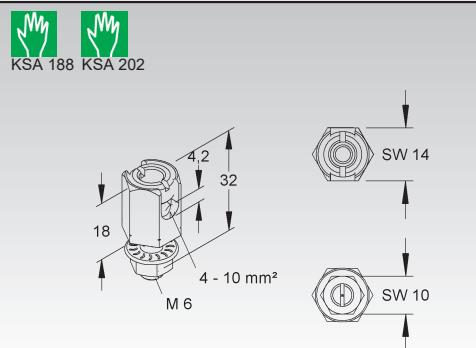
with serrated lock washer and toothed flange nut M6 acc. to DIN EN 1661 completely made of stainless steel

	Model No.	Section mm ²	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
MS	MTEKM 4X10 E10	4 - 10	165643	2,45	25 pcs.

to ensure equipotential bonding of cable trays and all common cable trays with holes Ø 6 - Ø 7 mm for the connection of equipotential bonding / earthing cables, stranded or solid for indoor and outdoor use

Used for: wire mesh tray MTC.... and cable trays

In the case of an insulated conductor, the insulation must be removed over a length of 30 mm, it is possible to tension 2 x 6 mm².



Ground Terminal

incl. threaded rod M 12, 2 washers Ø 30 mm and screws M 6X12

	Model No.	Section mm ²	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
MS	MTEKM 6X25 MS	6 - 25	168125	3,85	20 pcs.

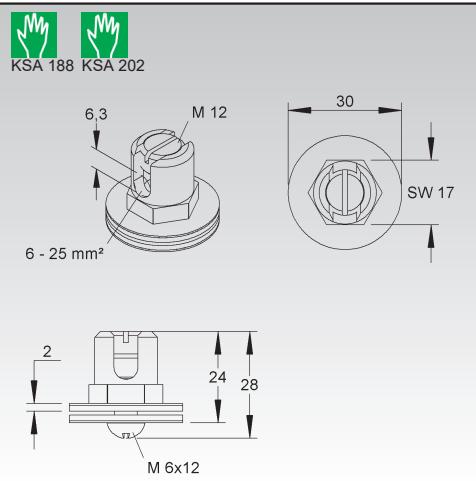
to ensure equipotential bonding in wire mesh trays with a central longitudinal wire spacing of max. 25 mm as well as all common wire mesh trays with bores Ø 6 - Ø 7 mm for the connection of equipotential bonding / earthing cables, stranded or solid for indoor and outdoor use

The clamp and the M12 threaded rod are made of tinned brass, the washers are made of stainless steel.

Made of copper-coated aluminium alloy and the M 6X12 screw made of galvanic galvanised steel, blue passivated.

Used for: wire mesh tray MTC.... and cable trays

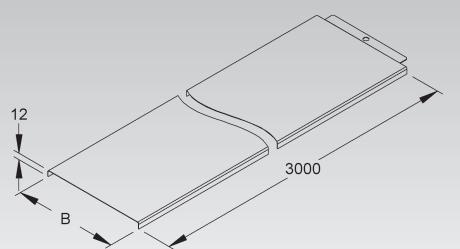
In the case of an insulated conductor, the insulation must be removed over a length of 30 mm.



Cover for Cable Tray

with bumper strip

	Model No.	Inside dimensions width B mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S	RD 100	102	260300	73,24	2 x 3 m
S	RD 200	202	260508	132,51	2 x 3 m
S	RD 300	302	260706	230,10	2 x 3 m
S	RD 400	402	260805	334,65	2 x 3 m
S	RD 500	502	260904	413,68	2 x 3 m
S	RD 600	602	261109	492,72	2 x 3 m



to reduce deflection at the cover joint
to protect against the penetration of dirt and increase stability with the adjacent cover

Used for: cable trays RLCI 60..., RS 60..., RLCPV 85... and RS 110...

Cover Clamp

	Model No.	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
E2	RDHF 9 E2	920457	0,47	60 pcs.

for fastening cable tray covers without twist-lock fastener

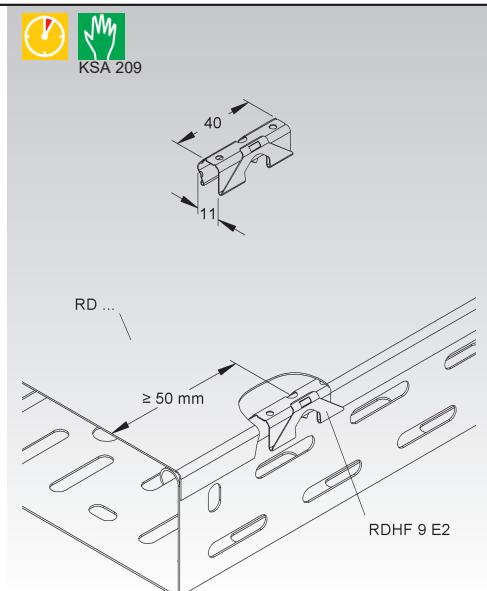
for additional requirements

Used for: RD... covers

The cover clamp is designed for the horizontal position of the cover.

It is important to note that a minimum clearance of ≥ 50 mm to the start/end of the cover must be maintained when fixing.

Not sufficient for securing covers to tray installed vertically or sideways nor for securing covers against windloads. Please use self tapping screws, steel cable ties or cover-hinges in addition.



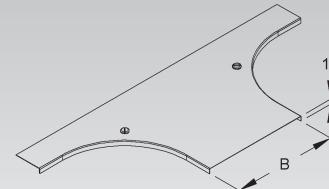
Cover for Horizontal Extension Tee

with pre-assembled turning bolt locks

	Model No.	Inside dimensions width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RTADV 100	104	277100	43,37	1 pc.
S	RTADV 200	204	277308	60,61	1 pc.
S	RTADV 300	304	274802	77,85	1 pc.
S	RTADV 400	404	277506	95,09	1 pc.
S	RTADV 500	504	277605	112,32	1 pc.
S	RTADV 600	604	277803	129,56	1 pc.

Used for: cable tray extension T-pieces of edge heights 60 and 110 mm RTA...

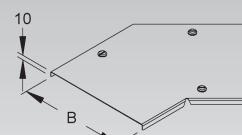
Not sufficient for securing covers to tray installed vertically or sideways nor for securing covers against windloads. Please use self tapping screws, steel cable ties or cover-hinges in addition.
RDRS 2 turnbolt lock can be used as replacement.



Cover for Elbow 45°

with pre-assembled turning bolt locks

	Model No.	Inside dimensions width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RBADV 100	104	275106	24,99	1 pc.
S	RBADV 200	204	275304	51,21	1 pc.
S	RBADV 300	304	275502	83,94	1 pc.
S	RBADV 400	404	275601	123,17	1 pc.
S	RBADV 500	504	275700	168,90	1 pc.
S	RBADV 600	604	275908	221,13	1 pc.



Used for: cable tray elbows 45° of edge heights 60 and 110 mm RBA...

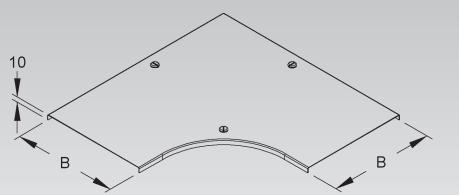
Not sufficient for securing covers to tray installed vertically or sideways nor for securing covers against windloads. Please use self tapping screws, steel cable ties or cover-hinges in addition.
RDRS 2 turnbolt lock can be used as replacement.

COVER FOR CABLE TRAY SYSTEM

Cover for Elbow 90°

with pre-assembled turning bolt locks

	Model No.	Inside dimensions width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RESDV 100	104	276202	39,00	1 pc.
S	RESDV 200	204	275007	96,39	1 pc.
S	RESDV 300	304	274901	160,52	1 pc.
S	RESDV 400	404	276509	238,78	1 pc.
S	RESDV 500	504	276608	367,73	1 pc.
S	RESDV 600	604	276806	486,08	1 pc.



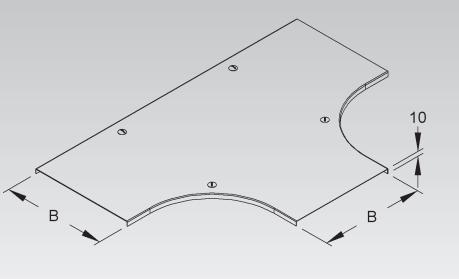
Used for: cable trays elbow 90° of edge heights 60 mm and 110 mm RES...

Not sufficient for securing covers to tray installed vertically or sideways nor for securing covers against windloads. Please use self tapping screws, steel cable ties or cover-hinges in addition.
RDRS 2 turnbolt lock can be used as replacement.

Cover for Horizontal Tee

with pre-assembled turning bolt locks

	Model No.	Inside dimensions width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RTSDV 100	104	277902	72,24	1 pc.
S	RTSDV 200	204	274703	141,97	1 pc.
S	RTSDV 300	304	278206	227,41	1 pc.
S	RTSDV 400	404	278305	328,54	1 pc.
S	RTSDV 600	604	278602	577,92	1 pc.



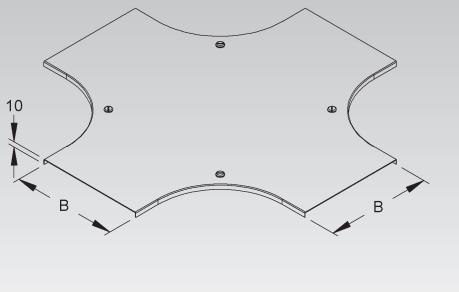
Used for: cable trays T-piece of edge heights 60 and 110 mm RTS...

Not sufficient for securing covers to tray installed vertically or sideways nor for securing covers against windloads. Please use self tapping screws, steel cable ties or cover-hinges in addition.
RDRS 2 turnbolt lock can be used as replacement.

Cover for Horizontal Cross

with pre-assembled turning bolt locks

	Model No.	Inside dimensions width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RKSDV 100	104	278701	95,41	1 pc.
S	RKSDV 200	204	278909	179,40	1 pc.
S	RKSDV 300	304	279104	279,10	1 pc.
S	RKSDV 400	404	279203	394,49	1 pc.
S	RKSDV 500	504	279302	525,59	1 pc.
S	RKSDV 600	604	279500	672,38	1 pc.



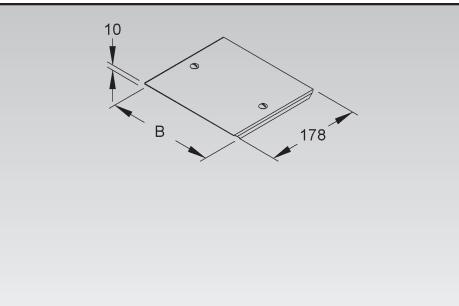
Used for: cable trays horizontal cross of edge heights 60 mm and 110 mm RKS...

Not sufficient for securing covers to tray installed vertically or sideways nor for securing covers against windloads. Please use self tapping screws, steel cable ties or cover-hinges in addition.
RDRS 2 turnbolt lock can be used as replacement.

Cover for Vertical Outside Elbow Kit

with pre-assembled turning bolt locks

	Model No.	Inside dimensions width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RFSDVV 60.100	104	844524	19,31	1 pc.
S	RFSDVV 60.200	204	844586	32,00	1 pc.
S	RFSDVV 60.300	304	844623	46,00	1 pc.
S	RFSDVV 60.400	404	844647	59,90	1 pc.
S	RFSDVV 60.500	504	844661	73,90	1 pc.
S	RFSDVV 60.600	604	844685	87,90	1 pc.



Used for: cable trays vertical inside / outside elbow 90° of edge height 60 mm, type RSD 60... and RFD 60...

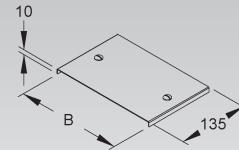
Not sufficient for securing covers to tray installed vertically or sideways nor for securing covers against windloads. Please use self tapping screws, steel cable ties or cover-hinges in addition.
RDRS 2 turnbolt lock can be used as replacement.



Cover for Vertical Inside Elbow

with pre-assembled turning bolt locks

	Model No.	Inside dimensions width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RSDDV 110.100	104	928446	14,23	1 pc.
S	RSDDV 110.200	204	928460	24,82	1 pc.
S	RSDDV 110.300	304	928484	35,42	1 pc.
S	RSDDV 110.400	404	928507	46,02	1 pc.
S	RSDDV 110.500	504	928521	56,62	1 pc.
S	RSDDV 110.600	604	928545	67,21	1 pc.



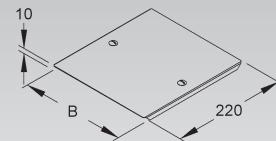
Used for: cable tray vertical inside elbow for side rail height of 110 mm, type RSD 110 ...

Not sufficient for securing covers to tray installed vertically or sideways nor for securing covers against windloads. Please use self tapping screws, steel cable ties or cover-hinges in addition.
RDRS 2 turnbolt lock can be used as replacement.

Cover for Vertical Outside Elbow Kit

with turnbolt locks

	Model No.	Inside dimensions width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RFDDV 110.100	104	927968	22,60	1 pc.
S	RFDDV 110.200	204	927982	39,31	1 pc.
S	RFDDV 110.300	304	928002	57,10	1 pc.
S	RFDDV 110.400	404	928026	74,40	1 pc.
S	RFDDV 110.500	504	928040	91,70	1 pc.
S	RFDDV 110.600	604	928064	108,90	1 pc.



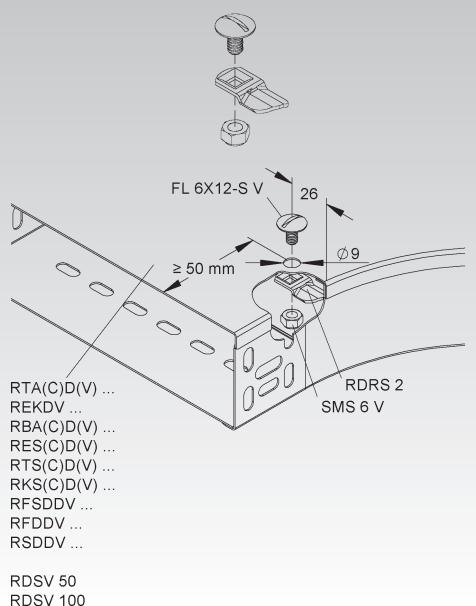
Used for: cable tray vertical outside elbow for side rail height of 110 mm, type RFD 110...

Not sufficient for securing covers to tray installed vertically or sideways nor for securing covers against windloads. Please use self tapping screws, steel cable ties or cover-hinges in addition.
RDRS 2 turnbolt lock can be used as replacement.

Turnbolt Lock

incl. locknut acc. to DIN EN ISO 10511

	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	RDRS 2 1 FL 6X12-S V, 1 SMS 6 V	270002	1,3	20 pcs.



RDSV 50
RDSV 100

COVER FOR CABLE TRAY SYSTEM

Mushroom Head Bolt, similar to DIN 603

incl. serrated flange nut, acc. to DIN EN 1661

Model No.	Thread M	Length L mm	Resistance class	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V FLM 6X12	6	12	-	206209	0,79	10 pcs.
F FLM 6X12 F	6	12	-	206407	0,79	50 pcs.
F FLM 6X16 F	6	16	-	206506	0,86	50 pcs.
F FLM 8X13 F	8	13	8.8	206605	2,00	10 pcs.
F FLM 8X16 F	8	16	8.8	206704	2,09	50 pcs.
F FLM 8X25 F	8	25	8.8	206803	2,34	50 pcs.
F FLM 10X25 F	10	25	8.8	206902	4,00	50 pcs.
F FLM 12X30 F	12	30	8.8	207008	8,00	50 pcs.
E3 FLM 6X12 E3	6	12	1.4301	343805	0,81	50 pcs.



Mushroom Head Bolt acc. to DIN 603

incl. large washer acc. to DIN EN ISO 7093-1 and toothed flange nut acc. to DIN EN 1661

Model No.	Thread M	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V FLDM 6X45	6	45	207060	1,56	50 pcs.
V FLDM 6X60 V	6	60	064748	2,08	50 pcs.
E3 FLDM 6X45 E3	6	45	343829	1,56	50 pcs.
E3 FLDM 8X45 E3	8	45	343867	1,80	50 pcs.



for cable and wide span cable tray mounting on perforated C-profiles

Mushroom Head Bolt, similar to DIN 603

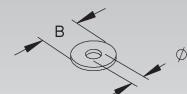
incl. large washer acc. to DIN EN ISO 7093-1 and toothed flange nut

Model No.	Thread M	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F FLMU 6X20 F	6	20	064779	1,42	100 pcs.



Large Diameter Washer, acc. to DIN EN ISO 7093-1

Model No.	Mounting hole -Ø mm	Width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V UGM 6	6,4	18	208906	0,26	100 pcs.
V UGM 8	8,4	24	209002	0,68	100 pcs.
V UGM 10	10,5	30	209101	1,22	100 pcs.
V UGM 12 V	13	37	072378	2,22	100 pcs.
E3 UGM 6 E3	6,4	18	927258	0,26	100 pcs.
E3 UGM 8 E3	8,4	24	931248	0,68	100 pcs.
E3 UGM 10 E3	10,5	30	936854	1,22	100 pcs.
E3 UGM 12 E3	13	37	072385	2,23	100 pcs.



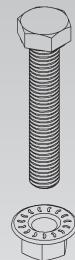
for fixing cable ladders on brackets and for fixing cable trays on perforated C-profiles as well as for covering larger fixing holes



Hexagon Head Bolt, acc. to DIN EN ISO 4017

incl. serrated flange nut, acc. to DIN EN 1661

	Model No.	Thread M	Length L mm	Resistance class	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V	SKM 8X16 V	8	16	8.8	207107	1,72	50 pcs.
V	SKM 10X25 V	10	25	8.8	207305	3,60	50 pcs.
V	SKM 10X40 V	10	40	8.8	207404	4,50	50 pcs.
V	SKM 10X50 V	10	50	8.8	207503	5,00	50 pcs.
V	SKM 10X70 V	10	70	8.8	207541	5,50	50 pcs.
V	SKM 12X50 V	12	50	10.9	064731	7,00	20 pcs.
V	SKM 12X70 V	12	70	10.9	207565	8,44	20 pcs.
F	SKM 10X80 F	10	80	8.8	886203	6,00	50 pcs.
F	SKM 10X90 F	10	90	8.8	893485	6,50	50 pcs.
E3	SKM 8X16 E3	8	16	1.4301	343904	1,72	50 pcs.
E3	SKM 8X40 E3	8	40	1.4301	343959	2,00	20 pcs.
E3	SKM 10X25 E3	10	25	1.4301	344000	3,89	50 pcs.
E3	SKM 10X40 E3	10	40	1.4301	344048	4,50	50 pcs.
E3	SKM 10X70 E3	10	70	1.4301	344086	5,98	50 pcs.
E3	SKM 10X90 E3	10	90	1.4301	344093	6,50	50 pcs.



The strength classes of the screws are stamped on the screw heads.

Especially for connections that have to transmit vertical loads via friction, it is essential to pay attention to the screw tightening torque and to check it with a torque wrench!

SKM 8..., screw tightening torque 24.6 Nm, width across flats 13

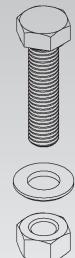
SKM 10..., screw tightening torque 48 Nm, width across flats 17/16

SKM 12..., screw tightening torque 123 Nm, width across flats 19

Hexagon Head Bolt, acc. to DIN EN ISO 4017

incl. hexagon nut acc. to DIN EN ISO 4032 and washer acc. to DIN EN ISO 7089

	Model No.	Thread M	Length L mm	Resistance class	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V	SKM 16X40 V	16	40	8.8	207589	12,70	20 pcs.
F	SKM 12X50 F	12	50	10.9	071531	8,27	20 pcs.
F	SKM 12X70 F	12	70	10.9	071548	9,85	20 pcs.
E5	SKM 8X16 E5	8	16	1.4571	729203	1,72	50 pcs.
E5	SKM 10X25 E5	10	25	1.4571	729302	4,00	50 pcs.



The strength classes of the screws are stamped on the screw heads.

Especially for connections that have to transmit vertical loads via friction, it is essential to pay attention to the screw tightening torque and to check it with a torque wrench!

SKM 16..., screw tightening torque 206 Nm, width across flats 24

SKM 12..., screw tightening torque 123 Nm, width across flats 19

SKM 8..., screw tightening torque 24.6 Nm, width across flats 13

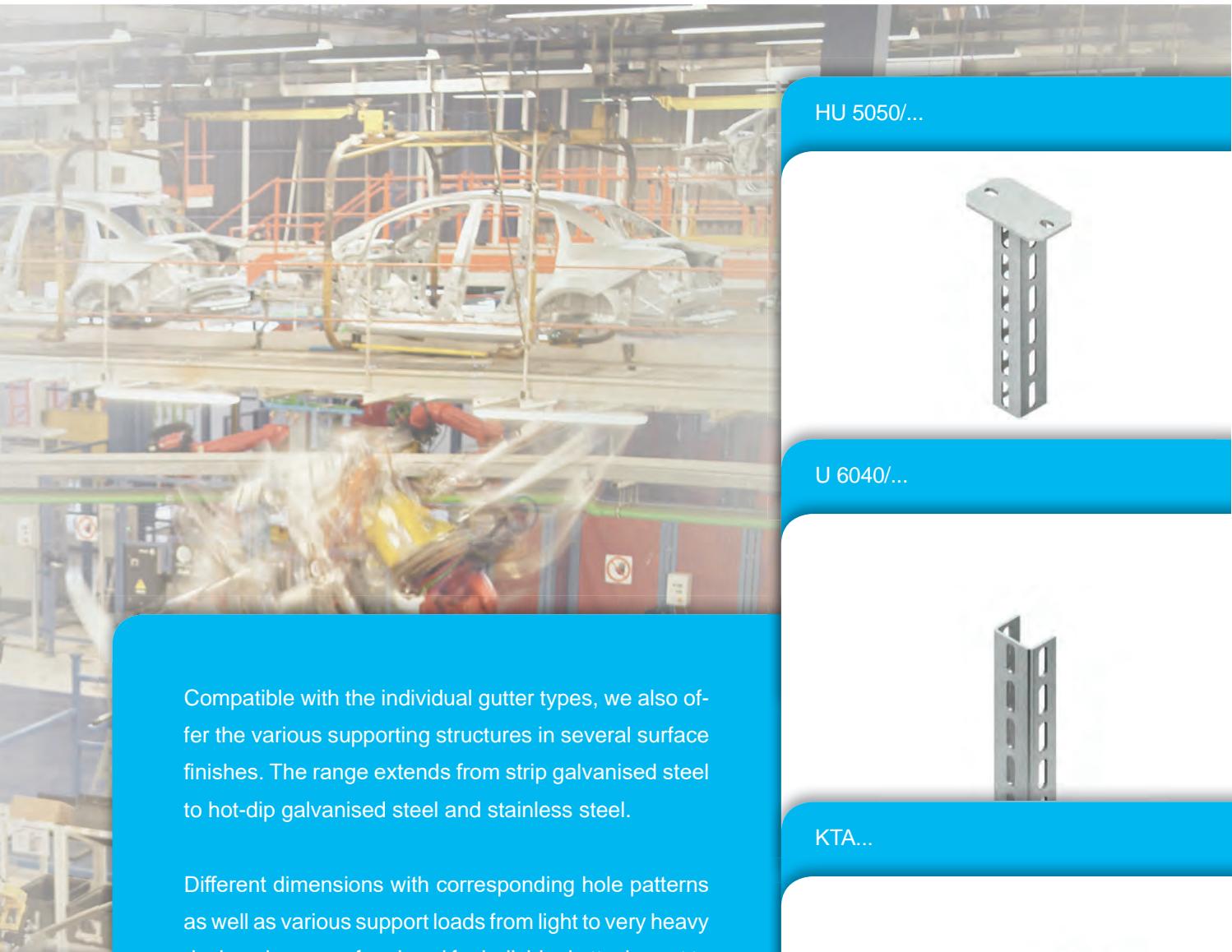
SKM 10..., screw tightening torque 48 Nm, width across flats 17/16



SUPPORT SYSTEM

- Overhead Hangers
- Brackets
- Profiles
- Head Plates





HU 5050/...



U 6040/...



KTA...



WAI 200 S



Compatible with the individual gutter types, we also offer the various supporting structures in several surface finishes. The range extends from strip galvanised steel to hot-dip galvanised steel and stainless steel.

Different dimensions with corresponding hole patterns as well as various support loads from light to very heavy design give you a free hand for individual attachment to the floor, wall and ceiling.

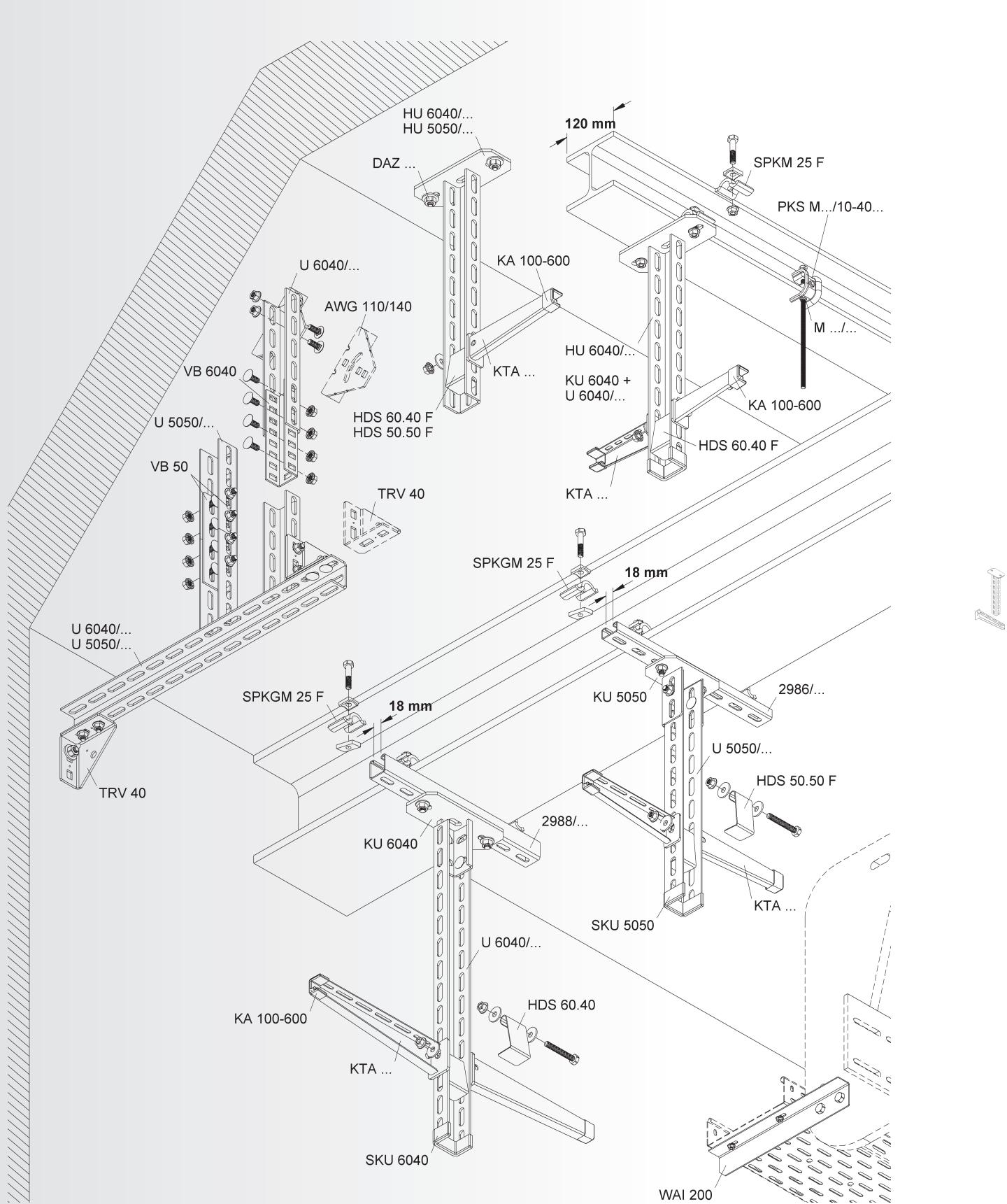
On the right you will find a selection of the most frequently used articles, more on the following pages.

SUPPORT SYSTEM

System overview

SYSTEM	Angle Bracket	WAI 200 S	Page 106
ACCESSORIES	Ceiling Support and Wall Bracket	KTA...	Page 106
	Protective End Cap	KA 100-600	Page 106
	Ceiling Support	HU 5050/...	Page 107
	Ceiling Support Profile	HDS 50.50 F	Page 107
	★ Protective End Cap	SKU 5050	Page 108
	Profile U 5050	U 5050/...	Page 108
	Straight Splice Plate	VB 50	Page 108
	Anchor Fixing Plate included Bolts	KU 5050	Page 108
	Ceiling Support	HU 6040/...	Page 109
	Ceiling Support Profile	HDS 60.40 F	Page 109
	Protective End Cap	SKU 6040	Page 110
	Profile U 6040	U 6040/...	Page 110
	Straight Splice Plate	VB 6040	Page 110
	Anchor Fixing Plate included Bolts	KU 6040	Page 110
	I-Beam Clamping Assembly	SPKM 25 F	Page 111
	I-Beam Clamping Assembly	SPKGM 25 F	Page 111
	Beam Clamp	PKS...	Page 111
	Threaded Rod	M 6/...	Page 112
	Threaded Rod	M 8/...	Page 112
	Adjustable Elbow Bracket	AWG 110/140	Page 112
	Angle Connector	TRV 40	Page 112



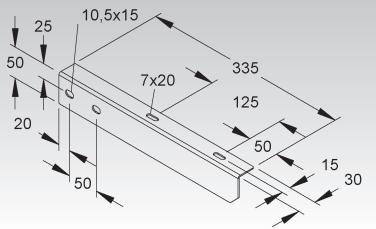


SUPPORT SYSTEM

Angle Bracket

Model No.	Height H mm	Width B mm	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S WAI 200 S	30	50	335	142842	39,34	1 pc.

for creating suspended structures



Ceiling Support and Wall Bracket

standard range

Model No.	Height H mm	Width B mm	Length L mm	Load rating at L/2 kN	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F KTA 100	45	40	110	2,5	2 FLM 6X12	186907	15,66	20 pcs.
F KTA 150	45	40	160	2,5	2 FLM 6X12	187003	19,05	20 pcs.
F KTA 200	55	40	210	2,5	2 FLM 6X12	187102	27,55	20 pcs.
F KTA 250	55	40	260	2,5	2 FLM 6X12	187201	32,21	20 pcs.
F KTA 300	65	50	310	2,5	2 FLM 6X12	187300	59,17	20 pcs.
F KTA 350	65	50	360	2,5	2 FLM 6X12	187409	66,35	20 pcs.
F KTA 400	75	50	410	2,5	2 FLM 6X12	187508	79,17	20 pcs.
F KTA 450	75	50	460	2,5	2 FLM 6X12	187607	88,02	10 pcs.
F KTA 500	90	50	510	2,5	2 FLM 6X12	187706	111,06	10 pcs.
F KTA 550	90	50	560	2,5	2 FLM 6X12	187805	134,20	10 pcs.
F KTA 600	90	50	610	2,5	2 FLM 6X12	187904	127,48	10 pcs.

for a wall and ceiling mounting

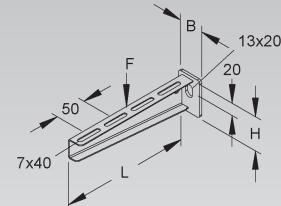
For steel brackets KTA 100-400, the size of oblong hole LL is 7x40 mm.

For steel brackets KTA 500+600, the size of oblong hole LL 7x38 mm.

For steel brackets KTA 150-550 (intermediate sizes) and for stainless steel brackets KTA 100-600, the size of oblong hole LL is 7x15 mm.

The load data relative to the carrying capacity are only valid if the bolting with the supporting base is sufficient, particularly in case of assembly on ceiling supports according to the mounting instructions.

Also available in stainless steel.



Protective End Cap

Model No.	Colour	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
K10 KA 100-600	yellow	347056	1,4	10 pcs.

to protect the profile ends

The end caps must be prescribed in areas where the risk of hazard is important!

Used for: ceiling support and wall bracket KTA 100-600



Ceiling Support

Profile U

	Model No.	Total length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F	HU 5050/200	205	858705	93,08	1 pc.
F	HU 5050/250	255	858729	105,23	1 pc.
F	HU 5050/300	305	858743	117,38	1 pc.
F	HU 5050/400	405	858767	141,67	1 pc.
F	HU 5050/500	505	858781	165,97	1 pc.
F	HU 5050/600	605	858804	190,27	1 pc.
F	HU 5050/700	705	858828	214,57	1 pc.
F	HU 5050/800	805	858842	238,87	1 pc.
F	HU 5050/900	905	858866	263,16	1 pc.
F	HU 5050/1000	1005	858880	287,46	1 pc.
F	HU 5050/1100	1105	858903	311,76	1 pc.
F	HU 5050/1200	1205	858927	336,06	1 pc.
F	HU 5050/1500	1505	858941	408,96	1 pc.
F	HU 5050/2000	2005	858965	530,44	1 pc.

Total length = U profile length, included fixing plate.

HU 5050/200, has limited space for equipment in cable trays (bracket length and height).

Used for: ceiling support and wall bracket KTA...

In order to avoid the deformation of ceiling support during the mounting of brackets, it is necessary for mechanical reason, to take into account of the thickness of the ceiling support when screwing the hexagonal bolts.

For static reasons and to facilitate the mounting of end caps, the bracket must be mounted at x=50 mm above the ceiling support end.

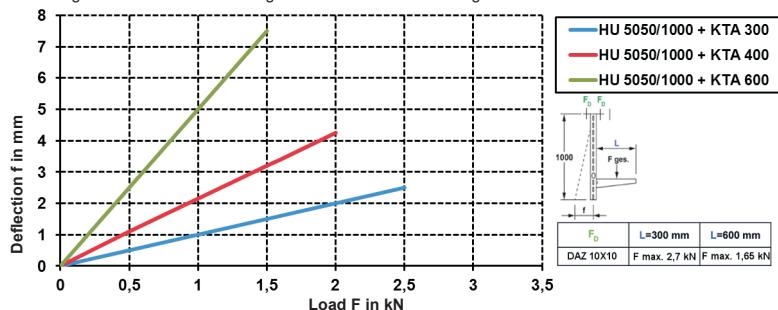
Serie of oblong holes (13x40 mm) on 3 profile sides.

If the bracket is fixed on one side to the overhead hanger, the closed side of the bracket should preferably be aligned with the profile web of the overhead hanger.

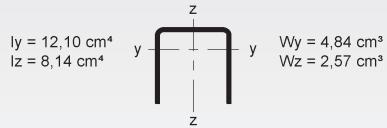
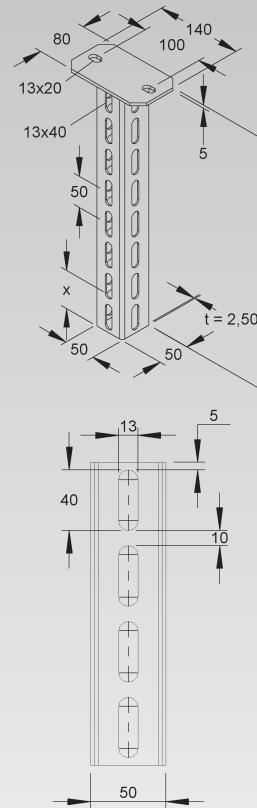
The load specifications only apply if there is sufficient anchoring with the load-bearing substrate. The introduction of the loads into the structure must be coordinated with the site management. The applicable guidelines and regulations must be observed.

Also available in stainless steel.

Load diagram : deflection of the hanger in case of one-sided charges



In case of symmetrical loads, the deflection is not significant.



Ceiling Support Profile

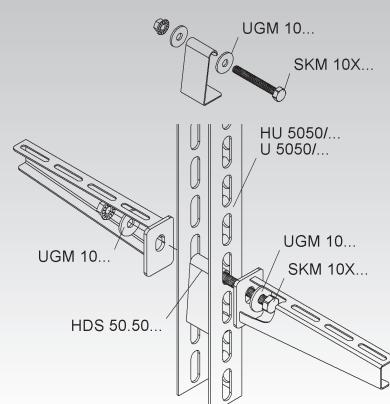
Model No.	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F HDS 50.50 F	1 SKM 10X80 F, 2 UGM 10 F	931705	16,52	50 pcs.

Used for: profile U 5050/... and ceiling support HU 5050/...

In order to avoid the deformation of ceiling support during the mounting of brackets, it is necessary for mechanical reason, to take into account of the thickness of the ceiling support when screwing the hexagonal bolts.

If the bracket is fixed on one side to the overhead hanger, the closed side of the outrigger should preferably be aligned with the profile web of the overhead hanger.

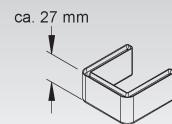
Also available in stainless steel.



SUPPORT SYSTEM

Protective End Cap

Model No.	Colour	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
K03 SKU 5050	yellow	188390	1,38	20 pcs.



to protect the profile ends

Used for: profile U 5050/... and ceiling support HU 5050/...

In order to allow easy installation of the protective caps, the bracket must be mounted at a distance of x=50 mm (lower edge of the bracket - end of the suspended support) above the end of the suspended support.

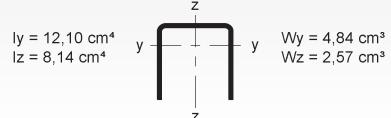
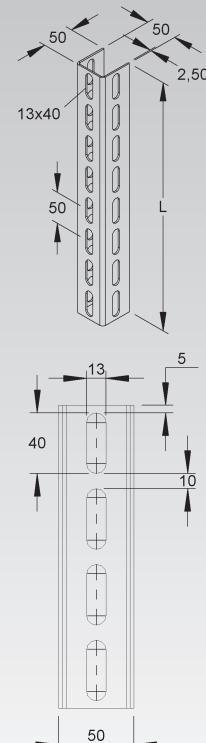
Profile U 5050

Model No.	Length L mm	EAN code	Weight in kg per 100 pc./m	Smallest packaging unit
F U 5050/200 F	200	918522	48,60	1 pc.
F U 5050/250 F	250	918546	60,74	1 pc.
F U 5050/300 F	300	918560	72,90	1 pc.
F U 5050/400 F	400	918584	97,20	1 pc.
F U 5050/500 F	500	918607	121,50	1 pc.
F U 5050/600 F	600	918621	145,79	1 pc.
F U 5050/700 F	700	918645	170,09	1 pc.
F U 5050/800 F	800	918669	194,38	1 pc.
F U 5050/900 F	900	918683	218,68	1 pc.
F U 5050/1000 F	1000	918706	242,98	1 pc.
F U 5050/1100 F	1100	918720	267,28	1 pc.
F U 5050/1200 F	1200	918744	291,58	1 pc.
F U 5050/1500 F	1500	918768	364,47	1 pc.
F U 5050/2000 F	2000	918782	242,98	2 m
F U 5050/3000 F	3000	859306	242,98	3 m
F U 5050/6000 F	6000	859320	242,98	6 m

for the manufacturing of ceiling supports and supporting systems made of different elements

Serie of oblong holes (13x40 mm) on 3 profile sides.

Also available in stainless steel.

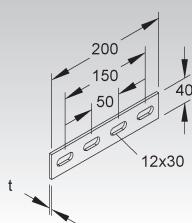


Straight Splice Plate

Model No.	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F VB 50	4	4 FLM 10X25 F	199303	38,13	20 pcs.

Demand at U 5050/... and HU 5050/...: 2 pieces per joint

Used for: profile U 5050/... and ceiling support HU 5050/...



Anchor Fixing Plate incl. Bolts

Model No.	Total length L mm	Thickness of head plates (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F KU 5050	110	5	2 FLM 10X25 F	191956	86,33	1 pc.

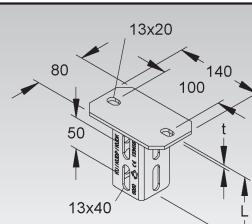
for the mounting on straight ceilings

Total length = length of the U-profile including the head plate

Used for: profile U 5050/...

Serie of oblong holes (13 x 40 mm) on 3 profile sides.

Also available in stainless steel.



Ceiling Support

Profile U

	Model No.	Total length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F	HU 6040/200	206	891450	143,21	1 pc.
F	HU 6040/250	256	891467	160,14	1 pc.
F	HU 6040/300	306	891474	177,08	1 pc.
F	HU 6040/400	406	891481	210,95	1 pc.
F	HU 6040/500	506	891498	244,82	1 pc.
F	HU 6040/600	606	891504	278,67	1 pc.
F	HU 6040/700	706	891511	312,54	1 pc.
F	HU 6040/800	806	891528	346,41	1 pc.
F	HU 6040/900	906	891535	380,28	1 pc.
F	HU 6040/1000	1006	891542	414,15	1 pc.
F	HU 6040/1100	1106	891559	448,02	1 pc.
F	HU 6040/1200	1206	891566	481,89	1 pc.
F	HU 6040/1500	1506	891573	583,50	1 pc.
F	HU 6040/2000	2006	891580	752,83	1 pc.

Total length = U profile length, included fixing plate.

HU 6040/200 has limited space for cable tray equipment (length of the overhead hanger - height of the bracket).

Used for: ceiling support and wall bracket KTA...

In order to avoid the deformation of ceiling support during the mounting of brackets, it is necessary for mechanical reason, to take into account of the thickness of the ceiling support when screwing the hexagonal bolts.

For static reasons and to facilitate the mounting of end caps, the bracket must be mounted at x=50 mm above the ceiling support end.

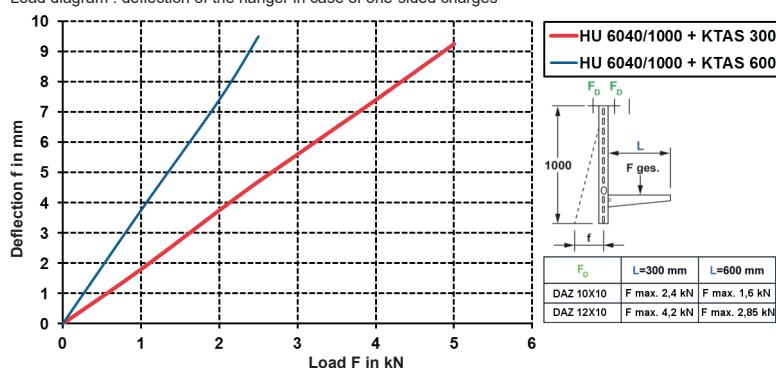
Serie of oblong holes (13x40 mm) on 3 profile sides.

If the bracket is fixed on one side to the overhead hanger, the closed side of the bracket should preferably be aligned with the profile web of the overhead hanger.

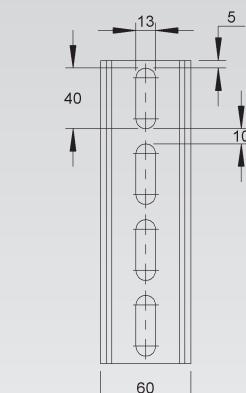
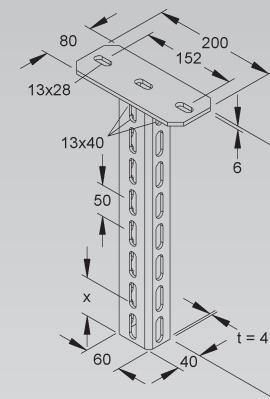
The load specifications only apply if there is sufficient anchoring with the load-bearing substrate. The introduction of the loads into the structure must be coordinated with the site management. The applicable guidelines and regulations must be observed.

Also available in stainless steel.

Load diagram : deflection of the hanger in case of one-sided charges



In case of symmetrical loads, the deflection is not significant.



$I_y = 20,40 \text{ cm}^4$
 $I_z = 6,92 \text{ cm}^4$
 $W_y = 6,82 \text{ cm}^3$
 $W_z = 2,57 \text{ cm}^3$

Ceiling Support Profile

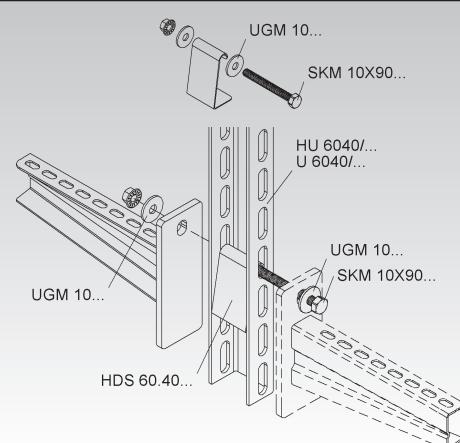
	Model No.	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F	HDS 60.40 F	1 SKM 10X90 F, 2 UGM 10 F	931729	18,59	50 pcs.

Used for: profile U 6040/... and ceiling support HU 6040/...

In order to avoid the deformation of ceiling support during the mounting of brackets, it is necessary for mechanical reason, to take into account of the thickness of the ceiling support when screwing the hexagonal bolts.

If the bracket is fixed on one side to the overhead hanger, the closed side of the outrigger should preferably be aligned with the profile web of the overhead hanger.

Also available in stainless steel.



SUPPORT SYSTEM

Protective End Cap

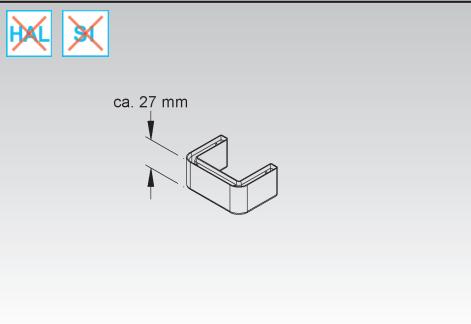
Model No.	Colour	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
K03 SKU 6040	yellow	912162	1,32	20 pcs.

to protect the profile ends

The end caps must be prescribed in areas where the risk of hazard is important!

Used for: profile U 6040/..., ceiling support HU 6040/... and vertical cable ladder STUC 60/...

In order to allow easy installation of the protective caps, the bracket must be mounted at a distance of x=50 mm (lower edge of the bracket - end of the suspended support) above the end of the suspended support.



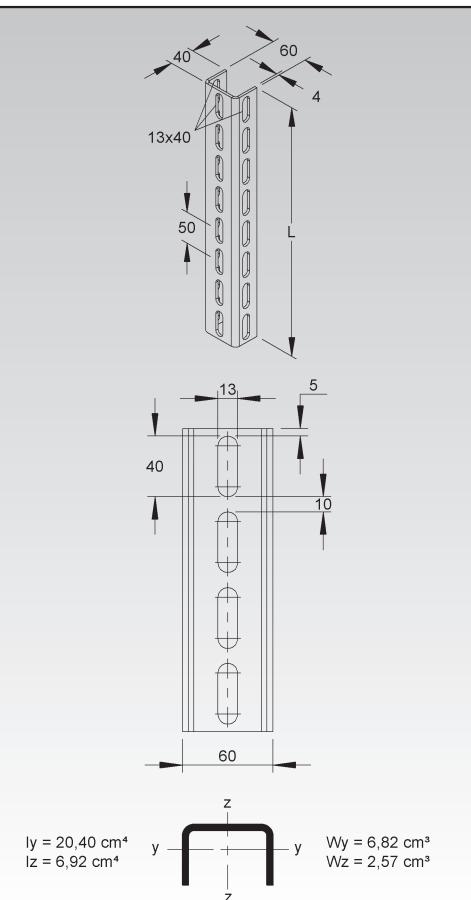
Profile U 6040

Model No.	Length L mm	EAN code	Weight in kg per 100 pc./m	Smallest packaging unit
F U 6040/200 F	200	891603	67,74	1 pc.
F U 6040/250 F	250	891610	84,67	1 pc.
F U 6040/300 F	300	891627	101,61	1 pc.
F U 6040/400 F	400	891634	135,48	1 pc.
F U 6040/500 F	500	891641	169,35	1 pc.
F U 6040/600 F	600	891658	203,21	1 pc.
F U 6040/700 F	700	891665	237,07	1 pc.
F U 6040/800 F	800	891672	270,94	1 pc.
F U 6040/900 F	900	891689	304,81	1 pc.
F U 6040/1000 F	1000	891696	338,68	1 pc.
F U 6040/1100 F	1100	891702	372,55	1 pc.
F U 6040/1200 F	1200	891719	406,42	1 pc.
F U 6040/1500 F	1500	891726	508,02	1 pc.
F U 6040/2000 F	2000	891733	338,68	2 m
F U 6040/3000 F	3000	891740	338,68	3 m
F U 6040/6000 F	6000	891764	338,68	6 m

for the manufacturing of ceiling supports and supporting systems made of different elements

Serie of oblong holes (13 x 40 mm) on 3 profile sides.

Also available in stainless steel.



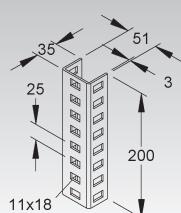
Straight Splice Plate

Model No.	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F VB 6040	4 FLM 10X25 F	891788	61,2	10 pcs.

Used for: profile U 6040/...

Three-sided slotted hole arrangement 11x18 mm in profile

Also available in stainless steel.



Anchor Fixing Plate incl. Bolts

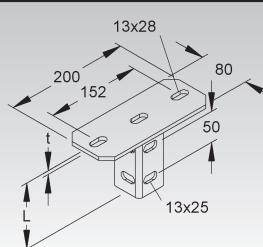
Model No.	Total length L mm	Thickness of head plates (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F KU 6040	106	6	2 FLM 10X25 F	891771	118,01	1 pc.

for the mounting on straight ceilings

Total length = length of the C-shaped connecting profile incl. the head plate

Used for: profile U 6040/...

Also available in stainless steel.



I-Beam Clamping Assembly

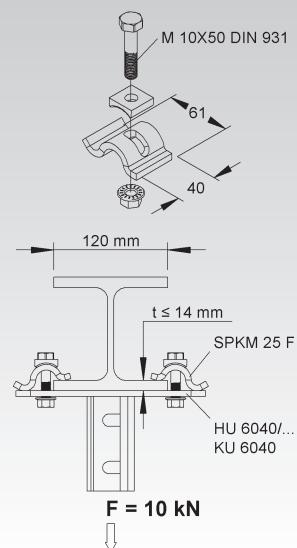
Model No.	For side rail thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 Pair	Smallest packaging unit
F SPKM 25 F	0 - 14	1 SK 10X50 DIN 931	931040	44	10 pairs

for attaching headplates or hangers directly to I-beams
for suspension with girder flange width of 120 mm possible

Used for: direct suspended support HU 6040/... or system-related head plates with profile U 6040/...

Screw tightening torque 46 Nm

Width across flats 16



I-Beam Clamping Assembly

with sliding nut

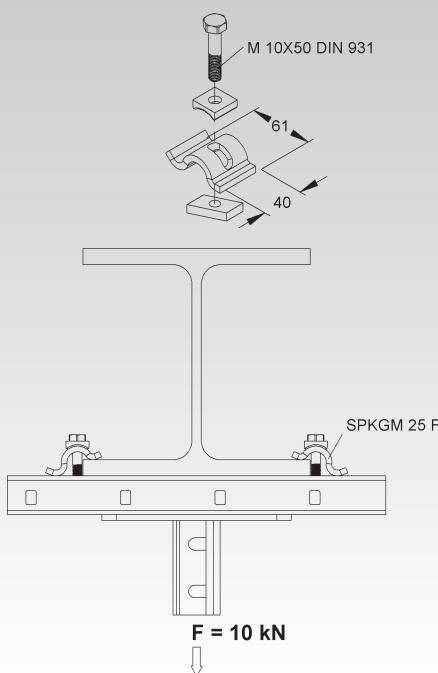
Model No.	Flange thickness (t) 2986 mm	Flange thickness (t) 2988/2996 mm	Incl. accessories	EAN code	Weight in kg per 100 Pair	Smallest packaging unit
F SPKGM 25 F	7 - 11	0 - 10	1 SK 10X50 DIN 931	934959	47,3	10 pairs

for fastening suspensions to double T-beam profiles in combination with C-profiles 2986 (slot width 18 mm), 2988 (slot width 18 mm) and 2996Z (slot width 22 mm)

Used for: ceiling supports and profiles

Screw tightening torque 46 Nm

Width across flats 16



Beam Clamp

incl. slotted shoulder screw M8

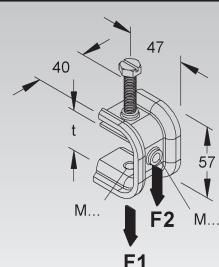
Model No.	Thickness of flange (t) mm	Thread M	Vertical nominal load F1 kN	Vertical nominal load F2 kN	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F PKS M6/10-40 F	6 - 35	6	1,8	1,6	133871	20,27	25 pcs.
F PKS M8/10-40 F	6 - 35	8	1,8	1,6	077571	21,20	25 pcs.
E3 PKS M8/10-40 E3	6 - 35	8	1,8	1,6	126866	19,40	25 pcs.
E5 PKS M8/10-40 E5	6 - 35	8	1,8	1,6	126873	19,59	25 pcs.

for beam profiles with parallel flanges or slanted flanges with a maximum inclination of 14% as well as supply line to the energy consumers

Depending on the application different fixing material will be used.

Bolting torque: 4 Nm

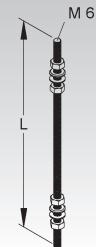
Wrench size 13



SUPPORT SYSTEM

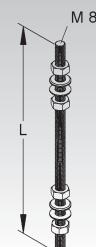
Threaded Rod, M6

Model No.	Length L mm	Resistance class	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V M 6/1000	1000	4.6	4 SMU 6	919420	21,72	25 pcs.
E3 M 6/1000 E3	1000	1.4301	4 SMU 6 E3	107544	18,77	25 pcs.



Threaded Rod, M8

Model No.	Length L mm	Resistance class	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V M 8/1000	1000	4.6	4 SMU 8	203505	35,1	25 pcs.
E3 M 8/1000 E3	1000	1.4301	4 SMU 8 E3	107568	35,1	25 pcs.



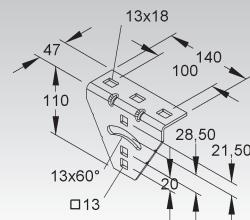
Adjustable Elbow Bracket

adjustable from -30° to +30°

Model No.	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F AWG 110/140	2 FLM 10X25 F	891801	58,4	10 pcs.

for mounting on inclined ceilings

Used for: U-profiles and C-profiles



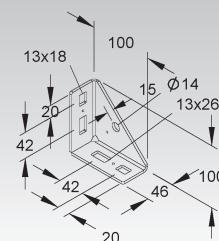
Angle Connector

Model No.	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F TRV 40	891795	41,1	10 pcs.

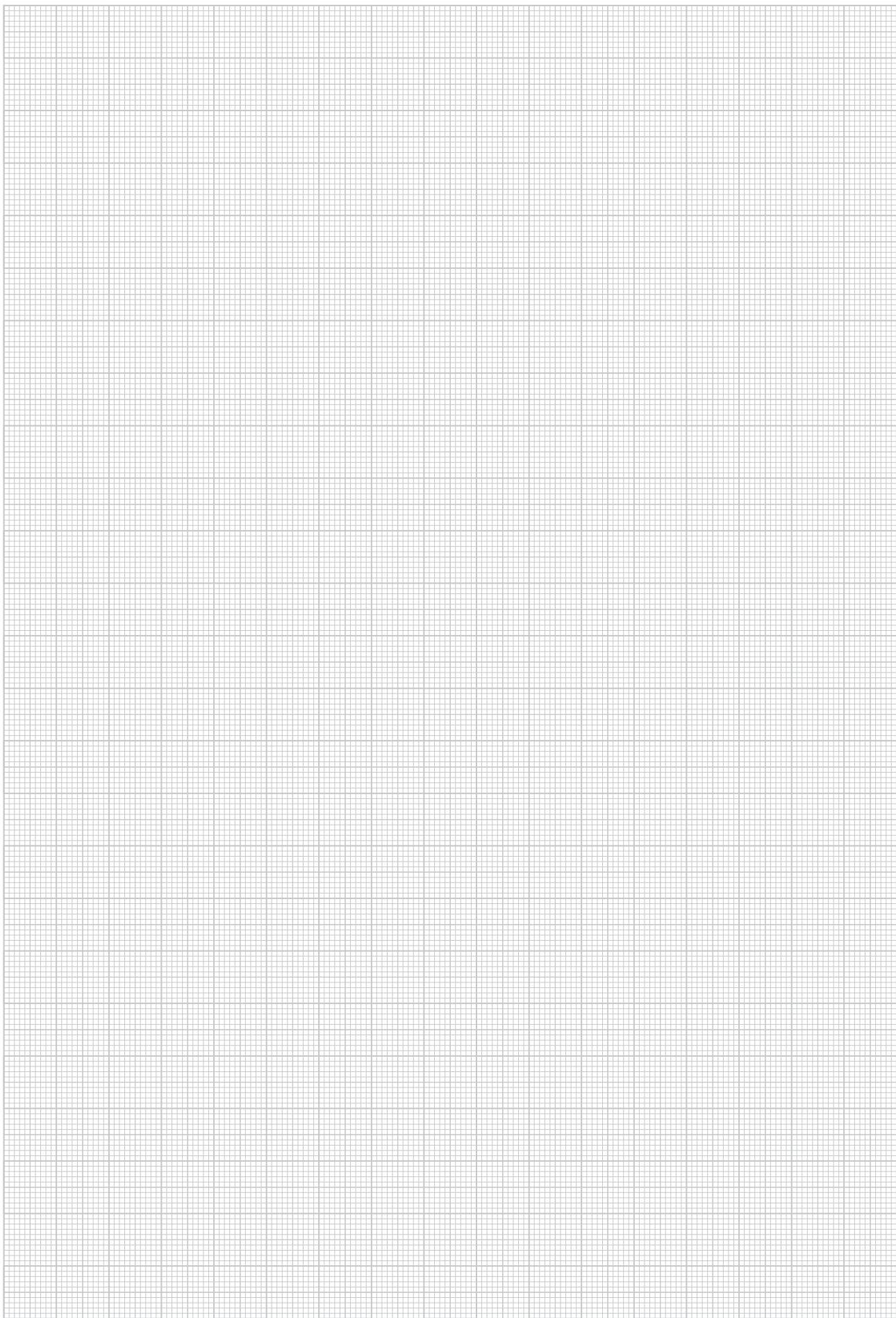
for connecting vertically aligned, T-shaped U-profiles and/or for use as a node angle for suspension systems

Used for: profiles U 5050/..., U 6040/... and C-profiles

Hardware is not included.



NOTES



A large rectangular area filled with a uniform grid of small squares, intended for handwritten notes.

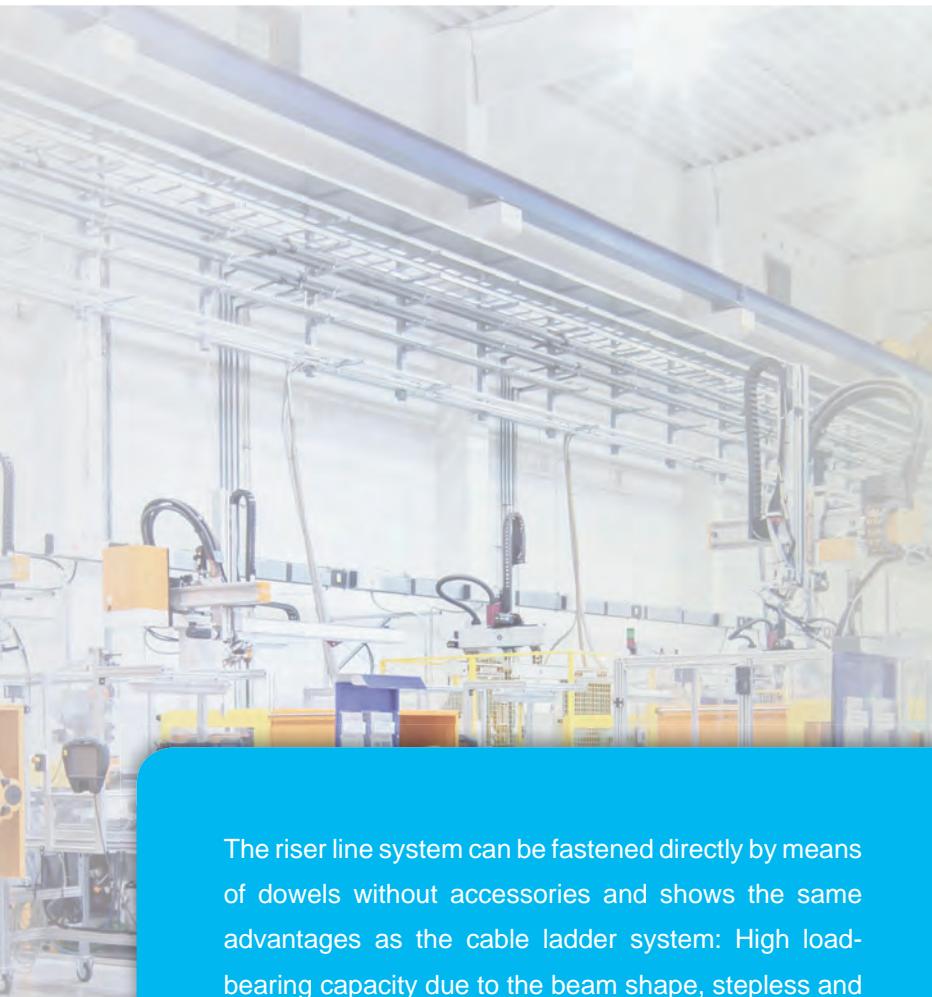
100



VERTICAL CABLE LADDER SYSTEM

- Vertical Cable Ladder
- U-clamps
- Accessories





The riser line system can be fastened directly by means of dowels without accessories and shows the same advantages as the cable ladder system: High load-bearing capacity due to the beam shape, stepless and drill-free screw connection of the wall connection parts thanks to continuous side beam perforation, quick fastening of the elements to be tensioned on the C-profile rungs by means of clamps.

The various materials and surfaces of the riser routes meet the corresponding corrosion protection requirements of the most varied areas of application.

On the right you will find a selection of the most frequently used articles, more on the following pages.

STUC 60/...



STIC 86/...



2996Z... + GMZF...



BU...



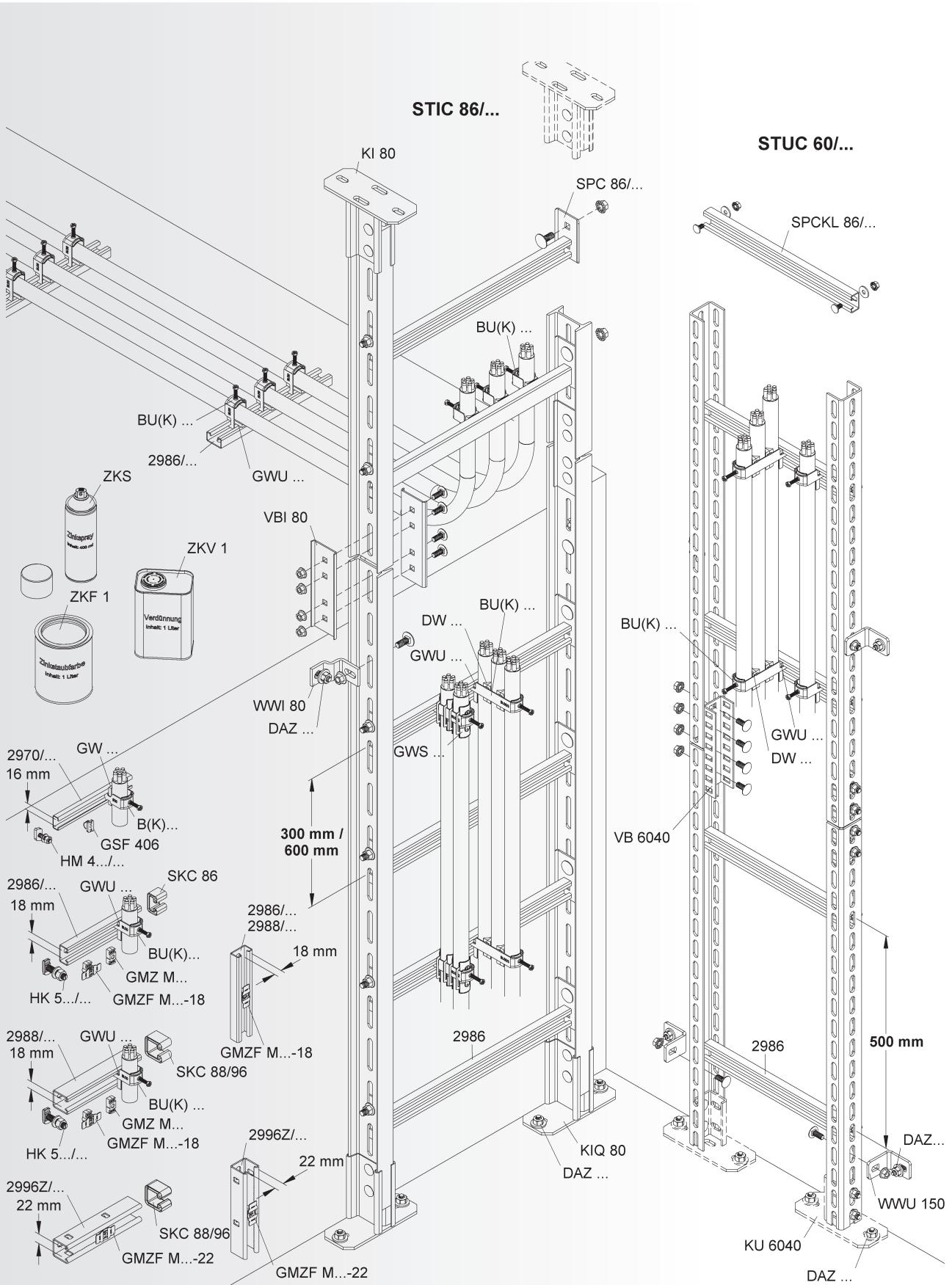
VERTICAL CABLE LADDER SYSTEM

System overview of side heights



SYSTEM	Vertical Cable Ladders	STUC...	Page 118
	Rungs for Vertical Cable Ladders	SPCKL...	Page 118
	Vertical Cable Ladders	STIC...	Page 119
	Rungs for Vertical Cable Ladders	SPC...	Page 120
ACCESSORIES	Protective End Cap	SKU 6040	Page 118
	Straight Splice Plate	VB 6040	Page 119
	Anchor Fixing Plate included Bolts	KU 6040	Page 119
	Two Hole Angle	WWU 150	Page 119
	Protective End Cap	SKI 80	Page 120
	Straight Splice Plate	VBI 80	Page 120
	Anchor Fixing Plate included Bolts	KI 80	Page 120
	Anchor Fixing Plate included Bolts	KIQ 80	Page 120
	Two Hole Angle	WVI 80	Page 121
	C-profile 2970	2970...	Page 121
	C-profile 2986	2986...	Page 121
	Protective End Cap	SKC 86	Page 122
	C-profile 2988	2988...	Page 122
	C-profile 2996Z, toothed	2996Z...	Page 122
	Protective End Cap	SKC 88/96	Page 123
	Sloped Sliding Nut	GSF 0406	Page 123
	Sliding Nut	GMZ M...	Page 123
	Gripping Sliding Nut	GMZF M...	Page 123
	Hammer Head Bolt M8	HM...	Page 124
	Hammer Head Bolt M10	HM...	Page 124
★ Hammer Head Bolt M10		HMZ...	Page 124
★ Hammer Head Bolt M12		HMZ...	Page 124
Hook Head Bolt M10		HK...	Page 124
Hook Head Bolt M12		HK...	Page 125
Hook Head Bolt M16		HK...	Page 125
U-clamp		B...	Page 125/126
U-clamp		BK...	Page 127
U-clamp		BU...	Page 128/129
U-clamp		BUK...	Page 129/130
Counter Pressure Trough for all U-clamps		GW...	Page 130
Counter Pressure Trough for all U-clamps		GWU...	Page 131
Double Trough for all U-clamps		DW...	Page 131
Counter Pressure Trough for all U-clamps		GWS...	Page 132
Slotted Pan Head Bolt		FK 6X12	Page 132
Mushroom Head Bolt		FLM...	Page 132
Mushroom Head Bolt		FLDM...	Page 132
Mushroom Head Bolt		FLMU 6X20 F	Page 133
Large Diameter Washer, acc. to DIN EN ISO 7093-1		UGM...	Page 133
Hexagon Head Bolt, acc. to DIN EN ISO 4017		SKM...	Page 133
Zinc Spray		ZKS	Page 134
Zinc Powder Paint		ZKF 1	Page 134
Dilution		ZKV 1	Page 134





VERTICAL CABLE LADDER SYSTEM

Vertical Cable Ladders

made of U 6040 profiles and C-profiles 2986, unassembled

	Model No.	Height H mm	Width B mm	Length L mm	Admis- sible load F kN	EAN code	Weight in kg per 100 m	Smallest packaging unit
F	STUC 60/205 F	60	215	4500	1,75	924608	755,1	4,5 m
F	STUC 60/305 F	60	315	4500	1,75	924622	788,0	4,5 m
F	STUC 60/405 F	60	415	4500	1,75	924646	820,8	4,5 m
F	STUC 60/505 F	60	515	4500	1,75	924660	853,7	4,5 m
F	STUC 60/605 F	60	615	4500	1,75	924684	886,6	4,5 m
F	STUC 60/705 F	60	715	4500	1	924707	919,5	4,5 m
F	STUC 60/805 F	60	815	4500	1	924721	952,4	4,5 m
F	STUC 60/905 F	60	915	4500	1	924745	985,3	4,5 m
F	STUC 60/1005 F	60	1015	4500	1	924769	1.018,1	4,5 m
F	STUC 60/1105 F	60	1115	4500	1	924783	1.051,0	4,5 m
F	STUC 60/1205 F	60	1215	4500	1	924806	1.083,9	4,5 m

50 mm center distance for punch holes 13 x 40 mm on all 3 sides of the rail

The continuous perforation of the side rails allows the installation of additional rungs, e.g. alternately, for double-sided occupancy.

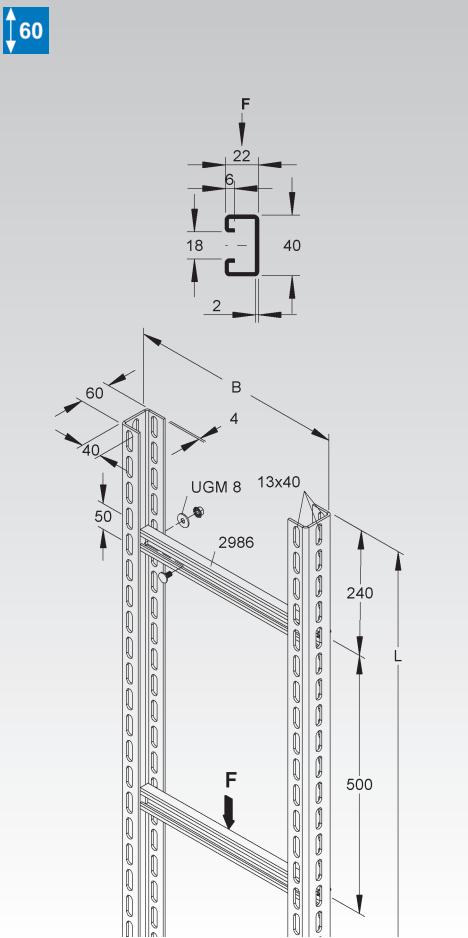
Screws and body washers are included.

For transport reasons, the delivery is made as a kit. The scope of delivery includes: 9 rungs per 4,5 m delivery length (corresponds to a rung distance of 50 cm).

Connecting and fastening elements such as head plates, joint connectors and wall connection brackets must be ordered separately.

Also available in stainless steel.

Corresponding U-clamps (BU... and BUK...) are listed in this catalogue.



Rungs for Vertical Cable Ladders

C-profile 2986 (40x22x2 mm)

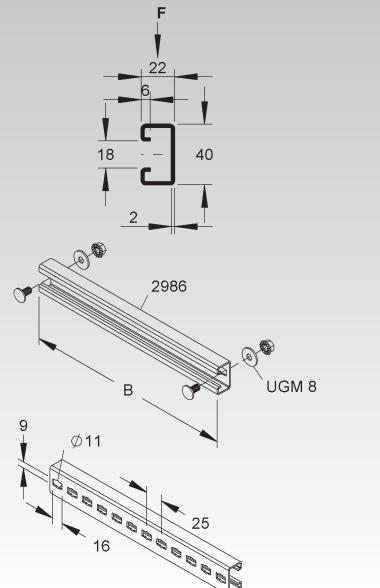
	Model No.	Width B mm	Admis- sible load F kN	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F	SPCKL 86/200 F	200	1,75	2 FLM 8X16 F, 2 UGM 8 F	924820	38,76	1 pc.
F	SPCKL 86/300 F	300	1,75	2 FLM 8X16 F, 2 UGM 8 F	924844	55,20	1 pc.
F	SPCKL 86/400 F	400	1,75	2 FLM 8X16 F, 2 UGM 8 F	924868	71,65	1 pc.
F	SPCKL 86/500 F	500	1,75	2 FLM 8X16 F, 2 UGM 8 F	924882	88,09	1 pc.
F	SPCKL 86/600 F	600	1,75	2 FLM 8X16 F, 2 UGM 8 F	924905	104,53	1 pc.
F	SPCKL 86/700 F	700	1	2 FLM 8X16 F, 2 UGM 8 F	924929	120,97	1 pc.
F	SPCKL 86/800 F	800	1	2 FLM 8X16 F, 2 UGM 8 F	924943	137,42	1 pc.
F	SPCKL 86/900 F	900	1	2 FLM 8X16 F, 2 UGM 8 F	924967	153,85	1 pc.
F	SPCKL 86/1000 F	1000	1	2 FLM 8X16 F, 2 UGM 8 F	924981	170,30	1 pc.
F	SPCKL 86/1100 F	1100	1	2 FLM 8X16 F, 2 UGM 8 F	925001	186,74	1 pc.
F	SPCKL 86/1200 F	1200	1	2 FLM 8X16 F, 2 UGM 8 F	925025	203,19	1 pc.

for additional requirements

Used for: vertical cable ladder STUC 60/...

Also available in stainless steel.

Corresponding U-clamps (BU... and BUK...) are listed in this catalogue.



Protective End Cap

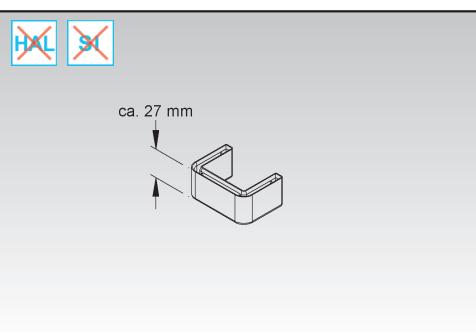
Model No.	Colour	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
K03	SKU 6040 yellow	912162	1,32	20 pcs.

to protect the profile ends

The end caps must be prescribed in areas where the risk of hazard is important!

Used for: profile U 6040/..., ceiling support HU 6040/... and vertical cable ladder STUC 60/...

In order to allow easy installation of the protective caps, the bracket must be mounted at a distance of x=50 mm (lower edge of the bracket - end of the suspended support) above the end of the suspended support.



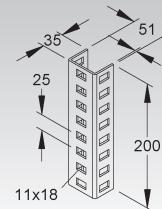
Straight Splice Plate

Model No.	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F VB 6040	4 FLM 10X25 F	891788	61,2	10 pcs.

Used for: profile U 6040/...

Three-sided slotted hole arrangement 11x18 mm in profile

Also available in stainless steel.



Anchor Fixing Plate incl. Bolts

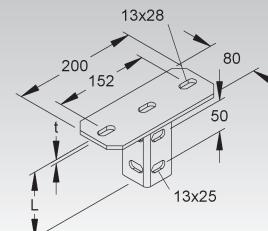
Model No.	Total length L mm	Thickness of head plates (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F KU 6040	106	6	2 FLM 10X25 F	891771	118,01	1 pc.

for the mounting on straight ceilings

Total length = length of the C-shaped connecting profile incl. the head plate

Used for: profile U 6040/...

Also available in stainless steel.



Two Hole Angle

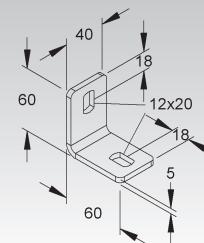
equal-sided

Model No.	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F WWU 150	1 FLM 10X25 F	194407	21,03	50 pcs.

for floor-, ceiling- or wall-mount

Used for: profiles U 5050/... and U 6040/...

Also available in stainless steel.



Vertical Cable Ladders

heavy design, made of I 80 profiles acc. to DIN 1025 and C-profiles 2986, unassembled

Model No.	Height H mm	Width B mm	rung distance A mm	Admissible load F kN	Incl. accessories	EAN code	Weight in kg per 100 m	Smallest packaging unit
F STIC 86/203	80	280	300	1,75	40 FLM 12X30 F	323449	1.532,43	6 m
F STIC 86/303	80	380	300	1,75	40 FLM 12X30 F	323456	1.590,73	6 m
F STIC 86/403	80	480	300	1,75	40 FLM 12X30 F	323463	1.649,03	6 m
F STIC 86/503	80	580	300	1,75	40 FLM 12X30 F	323470	1.707,33	6 m
F STIC 86/603	80	680	300	1,75	40 FLM 12X30 F	323487	1.765,64	6 m
F STIC 86/703	80	780	300	1,75	40 FLM 12X30 F	048168	1.823,94	6 m
F STIC 86/803	80	880	300	1,75	40 FLM 12X30 F	048175	1.882,24	6 m
F STIC 86/903	80	980	300	1,75	40 FLM 12X30 F	048182	1.940,55	6 m
F STIC 86/1003	80	1080	300	1,75	40 FLM 12X30 F	048090	1.998,85	6 m
F STIC 86/1103	80	1180	300	1,75	40 FLM 12X30 F	048113	2.057,15	6 m
F STIC 86/1203	80	1280	300	1,75	40 FLM 12X30 F	048120	2.115,45	6 m
F STIC 86/206	80	280	600	1,75	20 FLM 12X30 F	873203	1.388,52	6 m
F STIC 86/306	80	380	600	1,75	20 FLM 12X30 F	873227	1.417,67	6 m
F STIC 86/406	80	480	600	1,75	20 FLM 12X30 F	873241	1.446,82	6 m
F STIC 86/506	80	580	600	1,75	20 FLM 12X30 F	873265	1.475,97	6 m
F STIC 86/606	80	680	600	1,75	20 FLM 12X30 F	323500	1.505,12	6 m
F STIC 86/706	80	780	600	1	20 FLM 12X30 F	323609	1.534,27	6 m
F STIC 86/806	80	880	600	1	20 FLM 12X30 F	323708	1.563,42	6 m
F STIC 86/906	80	980	600	1	20 FLM 12X30 F	323807	1.592,58	6 m
F STIC 86/1006	80	1080	600	1	20 FLM 12X30 F	323906	1.621,73	6 m
F STIC 86/1106	80	1180	600	1	20 FLM 12X30 F	324002	1.650,88	6 m
F STIC 86/1206	80	1280	600	1	20 FLM 12X30 F	324101	1.680,03	6 m

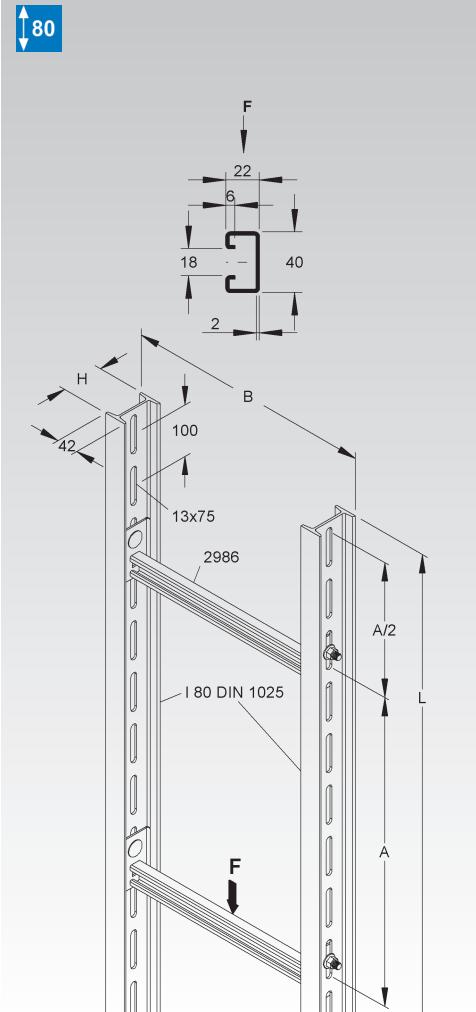
The continuous perforation of the side rails allows the installation of additional rungs, e.g. alternately, for double-sided occupancy.

Vertical cable ladder access also available in 3 m (same price per meter).

For transport reasons, the delivery is made as a kit. The scope of delivery includes: with a rung spacing of 30 cm 20 rungs per 6 m delivery length, with a rung spacing of 60 cm 10 rungs per 6 m delivery length.

Connecting and fastening elements such as head plates, splice plates and wall connection brackets must be ordered separately.

Corresponding U-clamps (BU... and BUK...) are listed in this catalogue.



VERTICAL CABLE LADDER SYSTEM

Rungs for Vertical Cable Ladders

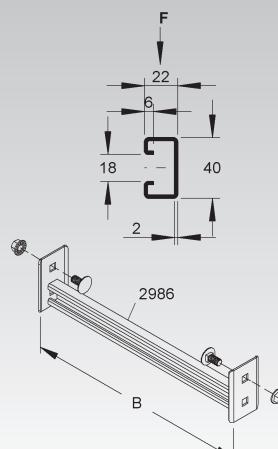
C-profile 2986 (40x22x2 mm)

	Model No.	Width B mm	Admis- sible load F kN	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F	SPC 86/200	234	1,75	2 FLM 12X30 F	325528	87,7	1 pc.
F	SPC 86/300	334	1,75	2 FLM 12X30 F	325542	105,2	1 pc.
F	SPC 86/400	434	1,75	2 FLM 12X30 F	325566	122,7	1 pc.
F	SPC 86/500	534	1,75	2 FLM 12X30 F	325580	140,2	1 pc.
F	SPC 86/600	634	1,75	2 FLM 12X30 F	325603	157,7	1 pc.
F	SPC 86/700	734	1	2 FLM 12X30 F	325702	175,1	1 pc.
F	SPC 86/800	834	1	2 FLM 12X30 F	325801	192,6	1 pc.
F	SPC 86/900	934	1	2 FLM 12X30 F	325900	210,1	1 pc.
F	SPC 86/1000	1034	1	2 FLM 12X30 F	326006	227,6	1 pc.
F	SPC 86/1100	1134	1	2 FLM 12X30 F	326105	245,1	1 pc.
F	SPC 86/1200	1234	1	2 FLM 12X30 F	326204	262,6	1 pc.

for additional requirements

Used for: vertical cable ladder STIC 86/...

Corresponding U-clamps (BU... and BUK...) are listed in this catalogue.



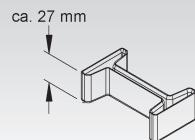
Protective End Cap

Model No.	Colour	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
K03 SKI 80	yellow	912605	1,54	20 pcs.

to protect the profile ends

Used for: profile I 80/..., ceiling support HI 80/... and vertical cable ladders STIC... and STIW...

A distance of at least 50 mm to the end of the profile must be maintained to ensure that the protective cap can be fitted without any problems.

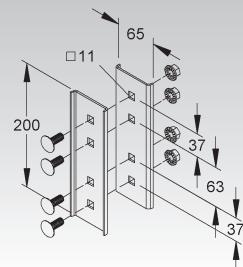


Straight Splice Plate

Model No.	Incl. accessories	EAN code	Weight in kg per 100 Pair	Smallest packaging unit
F VBI 80	4 FLM 10X25 F	199501	76	5 pairs

Requirement: 1 pair per joint

Used for: profile I 80/...



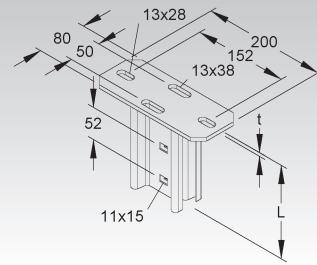
Anchor Fixing Plate incl. Bolts

Model No.	Total length L mm	Thickness of head plates (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F KI 80	151	6	2 FLM 10X25 F	192908	135,9	1 pc.

for the mounting on straight ceilings

Total length = length of the connection profiles incl. the head plate

Used for: profile I 80/...



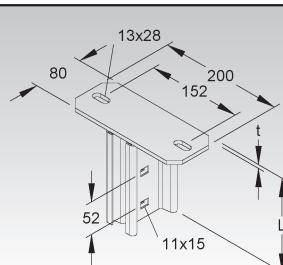
Anchor Fixing Plate incl. Bolts

Model No.	Total length L mm	Thickness of head plates (t) mm	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F KIQ 80	151	6	2 FLM 10X25 F	903009	151,76	1 pc.

for the mounting on straight ceilings

Total length = length of the connection profiles incl. the head plate

Used for: profile I 80/...



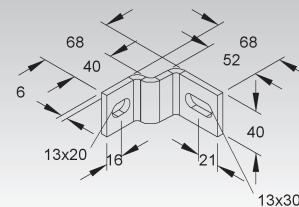
Two Hole Angle

equal-sided

Model No.	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F WWI 80	1 FLM 12X30 F	193004	28,67	50 pcs.

for wall-mounting

Used for: profile I 80/... and vertical cable ladders STIC...

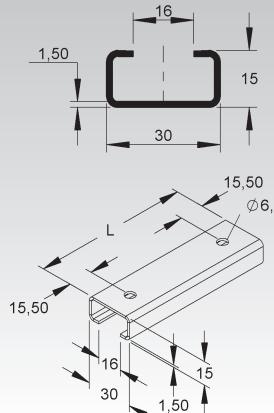


C-profile 2970

slot width 16 mm, one hole at each end, acc. to DIN EN 60715 standard

Model No.	Length L mm	Perforation mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S 2970/100-2 SL	100	2xØ6,5	037841	7,47	100 pcs.
S 2970/200-2 SL	200	2xØ6,5	037308	15,02	50 pcs.
S 2970/300-2 SL	300	2xØ6,5	037605	22,56	50 pcs.
S 2970/400-2 SL	400	2xØ6,5	037209	30,11	50 pcs.
S 2970/500-2 SL	500	2xØ6,5	037704	37,66	25 pcs.

Corresponding U-clamps (B... and BK...) are listed in this catalogue.

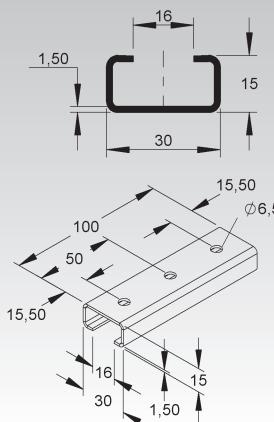


C-profile 2970

slot width 16 mm, three holes, acc. to DIN EN 60715 standard

Model No.	Length L mm	Perforation mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S 2970/100-3 SL	100	3xØ6,5	037407	7,43	100 pcs.

Corresponding U-clamps (B... and BK...) are listed in this catalogue.

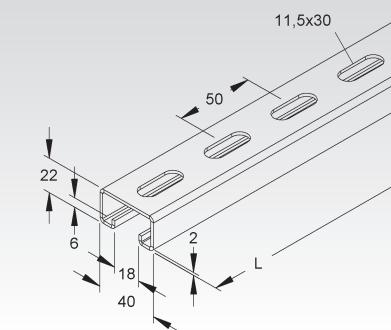
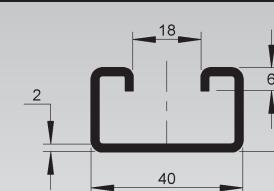


C-profile 2986

slot width 18 mm, perforated, acc. to DIN EN 60715 standard

Model No.	Length L mm	Perforation mm	Distance between perforations mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S 2986/2 SL	2000	11,5x30	50	899722	149,1	5 x 2 m
S 2986/3 SL	3000	11,5x30	50	193158	149,1	5 x 3 m
S 2986/6 SL	6000	11,5x30	50	032259	156,0	5 x 6 m

Corresponding U-clamps (BU... and BUK...) are listed in this catalogue.



VERTICAL CABLE LADDER SYSTEM

Protective End Cap

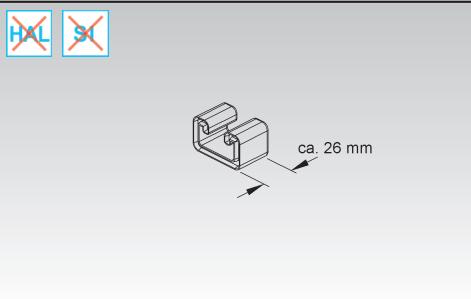
Model No.	Colour	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
K03 SKC 86	yellow	933105	0,79	20 pcs.

to protect the profile ends

The end caps must be prescribed in areas where the risk of hazard is important!

Used for: C-profiles 2986... and 2997Z...

A distance of at least 30 mm to the end of the profile must be maintained to ensure that the protective cap can be fitted without any problems.

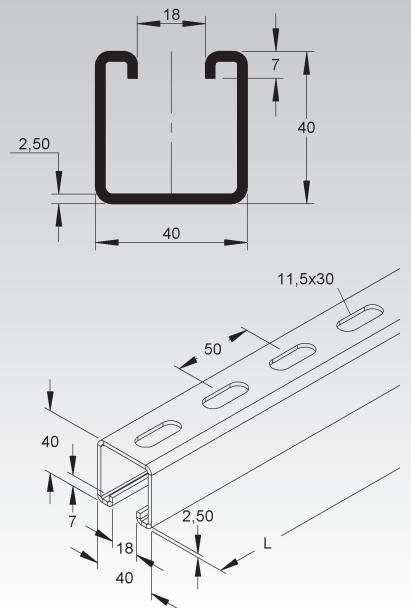


C-profile 2988

slot width 18 mm, perforated

Model No.	Length L mm	Perforation mm	Distance between perforations mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
F 2988/2 FL	2000	11,5x30	50	044955	276,35	5 x 2 m
F 2988/6 FL	6000	11,5x30	50	045013	276,35	2 x 6 m

Corresponding U-clamps (BU... and BUK...) are listed in this catalogue.



C-profile 2996Z, toothed

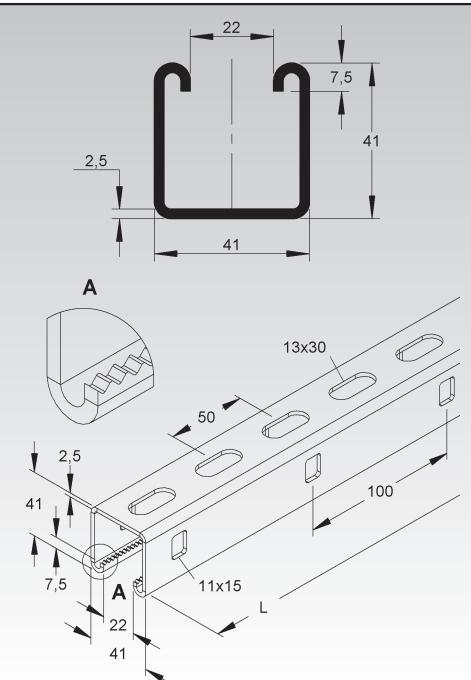
slot width 22 mm, perforated

Model No.	Length L mm	Perforation mm	Distance between perforations mm	Side perforations mm	Distance mm	EAN code	Weight in kg per 100 pc./m	Smallest packaging unit
F 2996Z/3 FL	3000	13x30	50	11x15	100	960675	265,10	3 m
F 2996Z/4500 FL	4500	13x30	50	11x15	100	003594	1.193,34	1 pc.
F 2996Z/6 FL	6000	13x30	50	11x15	100	960699	265,20	6 m

Also available in stainless steel.

Please order required mounting accessories for F separately: GMZ M... F, GMZF M...22 F and screws

Corresponding U-clamps (BU... and BUK...) are listed in this catalogue.



Protective End Cap

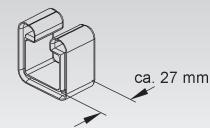
Model No.	Colour	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
K03 SKC 88/96	yellow	926800	1,32	20 pcs.

to protect the profile ends

The end caps must be prescribed in areas where the risk of hazard is important!

Used for: C-profiles 2988... and 2996Z...

A distance of at least 30 mm to the end of the profile must be maintained to ensure that the protective cap can be fitted without any problems.



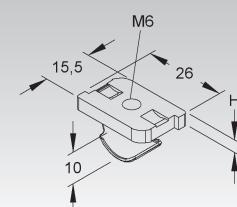
Sloped Sliding Nut

with clamping spring (phosphated)

Model No.	Thread M	Height H mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
G GSF 0406	6	4	119608	1,04	25 pcs.

Used for: C-profile 2970

Insertable at any position of the C-profile.



Sliding Nut

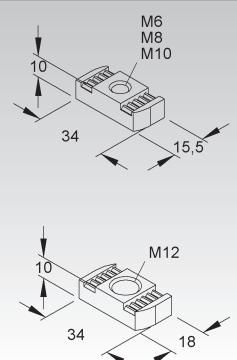
Model No.	Thread M	Resistance class	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F GMZ M6 F	6	8	947409	3,5	100 pcs.
F GMZ M8 F	8	8	947416	3,3	100 pcs.
F GMZ M10 F	10	8	947423	3,2	100 pcs.
F GMZ M12 F	12	8	947430	3,5	100 pcs.

Used for: C-profiles 2986 and 2988 (18 mm slot width)

C-profile 2996Z (22 mm slot width)

Insertable at any position of the C-profile.

The GMZ M12 F sliding nuts can be inserted only from the end of a C-profile (18 mm slot width).



Gripping Sliding Nut

Model No.	Thread M	Resistance class	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F GMZF M6-18 F	6	8	055647	3,66	100 pcs.
F GMZF M8-18 F	8	8	055654	3,52	100 pcs.
F GMZF M10-18 F	10	8	055661	3,36	100 pcs.
F GMZF M12-18 F	12	8	055678	3,71	100 pcs.

for precise fixing without slipping, especially in vertical applications

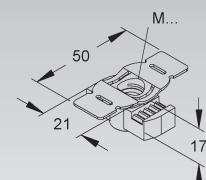
Used for: C-profiles 2986 and 2988 (18 mm slot width)

Insertable at any position of the C-profile.

The sliding nut is screwed into the profile by 90° using a fixing aid and can be positioned variably by pressing on it.

The GMZF M12-18... sliding nuts can be inserted only from the end of a C-profile (18 mm slot width).

Also available in stainless steel.



Gripping Sliding Nut

Model No.	Thread M	Resistance class	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F GMZF M6-22 F	6	8	055487	3,70	100 pcs.
F GMZF M8-22 F	8	8	055494	3,57	100 pcs.
F GMZF M10-22 F	10	8	055517	3,40	100 pcs.
F GMZF M12-22 F	12	8	055524	3,76	100 pcs.

for precise fixing without slipping, especially in vertical applications

Used for: C-profile 2996Z (22 mm slot width)

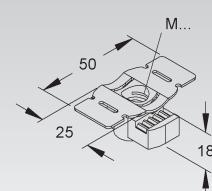
Insertable at any position of the C-profile.

The sliding nut is screwed into the profile by 90° using a fixing aid and can be positioned variably by pressing on it.

Also available in stainless steel.



KSA 197



VERTICAL CABLE LADDER SYSTEM

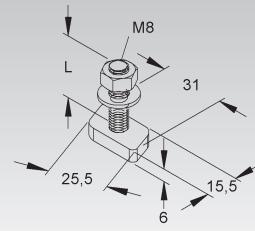
Hammer Head Bolt, size M8

incl. nut and washer

Model No.	Length L mm	Resistance class	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V HM 408/20	20	4.6	122806	3,29	100 pcs.
V HM 408/30	30	4.6	122905	3,60	50 pcs.
V HM 408/40	40	4.6	123001	3,90	50 pcs.
V HM 408/50	50	4.6	123100	4,21	50 pcs.

Used for: C-profile 2970

Insertable at any position of the C-profile.



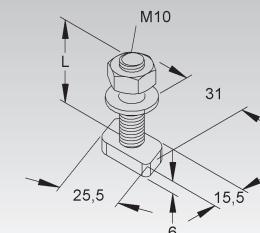
Hammer Head Bolt, size M10

incl. nut and washer

Model No.	Length L mm	Resistance class	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V HM 410/30	30	4.6	123209	4,90	50 pcs.
V HM 410/40	40	4.6	123308	5,37	50 pcs.
V HM 410/50	50	4.6	123407	5,84	50 pcs.

Used for: C-profile 2970

Insertable at any position of the C-profile.



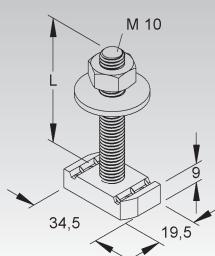
Hammer Head Bolt, size M10

serrated, incl. hexagonal nut and washer acc. to DIN EN ISO 7093-1

Model No.	Length L mm	Resistance class	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
★ F HMZ M10/30 F	30	4.6	176779	7,67	100 pcs.
★ F HMZ M10/60 F	60	4.6	176762	9,57	100 pcs.
★ F HMZ M10/80 F	80	4.6	176755	10,77	100 pcs.

Used for: C-profiles 2996Z and 2997Z (22 mm slot width)

Insertable at any position of the C-profile.



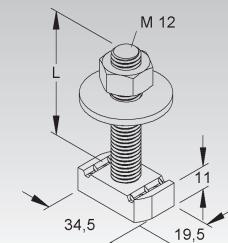
Hammer Head Bolt, size M12

serrated, incl. hexagonal nut and washer acc. to DIN EN ISO 7093-1

Model No.	Length L mm	Resistance class	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
★ F HMZ M12/30 F	30	4.6	176748	9,46	100 pcs.
★ F HMZ M12/60 F	60	4.6	176731	11,96	100 pcs.
★ F HMZ M12/80 F	80	4.6	176724	13,76	100 pcs.

Used for: C-profile 2996Z (22 mm slot width)

Insertable at any position of the C-profile.



Hook Head Bolt, size M10

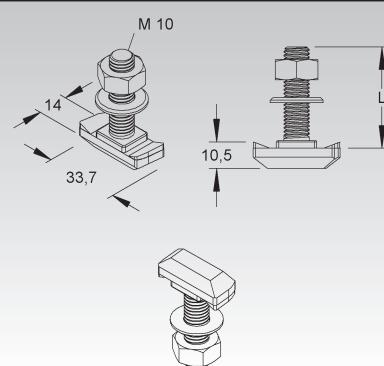
incl. nut and washer

Model No.	Length L mm	Resistance class	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V HK 510/20	20	4.6	123704	3,7	100 pcs.
V HK 510/30	30	4.6	123803	4,3	100 pcs.

Used for: C-profiles 2986 and 2988

Insertable at any position of the C-profile.

Also available in stainless steel.



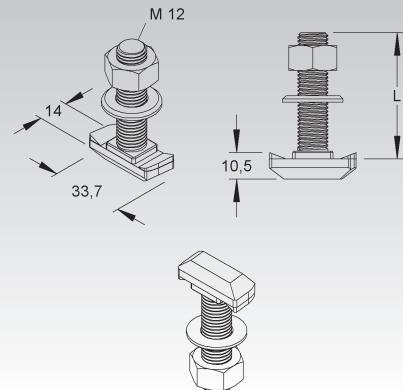
Hook Head Bolt, size M12

incl. nut and washer

Model No.	Length L mm	Resistance class	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V HK 512/20	20	4.6	124107	5,3	100 pcs.
V HK 512/30	30	4.6	124206	4,9	100 pcs.
V HK 512/50	50	4.6	124305	6,5	50 pcs.

Used for: C-profiles 2986 and 2988

Insertable at any position of the C-profile.



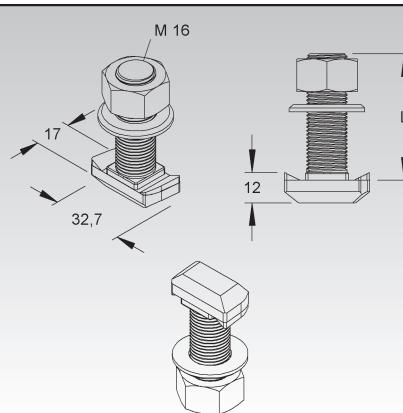
Hook Head Bolt, size M16

incl. nut and washer

Model No.	Length L mm	Resistance class	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V HK 516/30	30	4.6	124404	7,5	50 pcs.
V HK 516/50	50	4.6	124503	10,2	50 pcs.

Used for: C-profiles 2986 and 2988

Insertable at any position of the C-profile.



U-Clamp

with pressure trough

Model No.	For cable-Ø mm	Screw head	Thread M	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F B 12	6 - 12	slotted hex head	6	047406	2,57	100 pcs.
F B 14	10 - 14	slotted hex head	6	047505	2,78	100 pcs.
F B 16	12 - 16	slotted hex head	6	047604	2,92	100 pcs.
F B 18	14 - 18	slotted hex head	6	047703	3,14	100 pcs.
F B 22	16 - 22	slotted hex head	6	047802	3,67	100 pcs.
F B 26	22 - 26	slotted hex head	6	047901	4,10	100 pcs.
F B 30	22 - 30	slotted hex head	6	048007	4,70	100 pcs.
F B 34	28 - 34	slotted hex head	6	048106	6,07	100 pcs.
F B 38	34 - 38	slotted hex head	6	048205	8,07	100 pcs.
F B 42	34 - 42	slotted hex head	6	048304	8,61	100 pcs.
F B 46	40 - 46	slotted hex head	8	048403	10,15	100 pcs.
F B 50	46 - 50	slotted hex head	8	048502	10,55	50 pcs.
F B 54	46 - 54	slotted hex head	8	048601	11,44	50 pcs.
F B 58	52 - 58	slotted hex head	8	048700	12,00	50 pcs.
F B 64	58 - 64	slotted hex head	8	048809	12,47	50 pcs.
F B 70	64 - 70	slotted hex head	8	048908	14,49	50 pcs.
F B 76	70 - 76	slotted hex head	8	049004	18,10	50 pcs.
F B 82	76 - 82	slotted hex head	8	049103	18,76	50 pcs.
F B 90	82 - 90	slotted hex head	8	049202	21,62	50 pcs.
F B 100	90 - 100	slotted hex head	8	049301	23,55	25 pcs.
F B 110	100 - 110	slotted hex head	8	049400	26,00	25 pcs.

for one cable

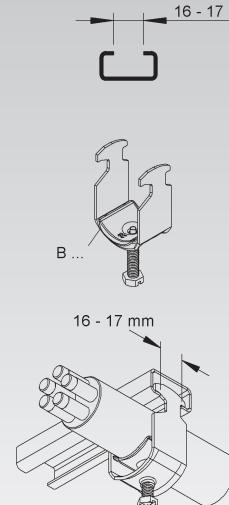
In version F, the steel pressure trough is pre-galvanised acc. to DIN EN 10346.

Used for: slot width 16-17 mm

Please order GW... / GWS... counter pressure troughs separately.

Also available in stainless steel.

KSA 203

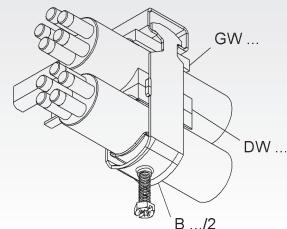
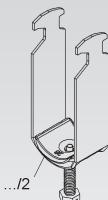
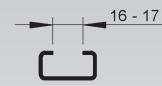


VERTICAL CABLE LADDER SYSTEM

U-clamp

with pressure trough

Model No.	For cable-Ø mm	Screw head	Thread M	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F B 12/2	10 - 12	slotted hex head	6	049509	3,34	100 pcs.
F B 14/2	12 - 14	slotted hex head	6	049608	3,73	100 pcs.
F B 16/2	14 - 16	slotted hex head	6	049707	4,11	100 pcs.
F B 18/2	16 - 18	slotted hex head	6	049806	4,44	100 pcs.
F B 22/2	18 - 22	slotted hex head	6	049905	5,27	100 pcs.
F B 26/2	22 - 26	slotted hex head	6	050000	5,94	100 pcs.
F B 30/2	26 - 30	slotted hex head	6	050109	6,60	100 pcs.
F B 34/2	30 - 34	slotted hex head	6	050208	8,42	100 pcs.
F B 38/2	34 - 38	slotted hex head	6	050307	11,65	50 pcs.
F B 42/2	38 - 42	slotted hex head	6	050406	11,99	50 pcs.
F B 46/2	42 - 46	slotted hex head	8	050505	14,03	50 pcs.
F B 50/2	46 - 50	slotted hex head	8	050604	15,08	50 pcs.



for two cables

In version F, the steel pressure trough is pre-galvanised acc. to DIN EN 10346.

Used for: slot width 16-17 mm

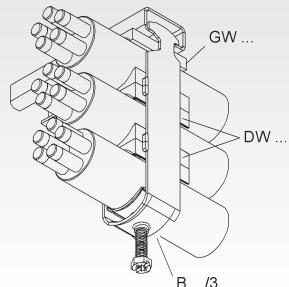
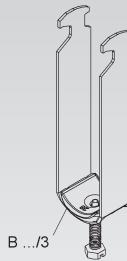
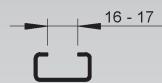
Please order GW... / GWS... counter pressure troughs and DW... double sided cable saddle separately.

Also available in stainless steel.

U-clamp

with pressure trough

Model No.	For cable-Ø mm	Screw head	Thread M	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F B 12/3	9 - 12	slotted hex head	6	050703	3,93	100 pcs.
F B 14/3	12 - 14	slotted hex head	6	050802	4,73	100 pcs.
F B 16/3	14 - 16	slotted hex head	6	050901	5,12	100 pcs.
F B 18/3	16 - 18	slotted hex head	6	051007	5,45	100 pcs.
F B 20/3	18 - 20	slotted hex head	6	051106	6,01	100 pcs.
F B 22/3	20 - 22	slotted hex head	6	051205	6,58	100 pcs.
F B 24/3	22 - 24	slotted hex head	6	051304	6,73	100 pcs.
F B 26/3	24 - 26	slotted hex head	6	051403	7,66	100 pcs.
F B 28/3	26 - 28	slotted hex head	6	051502	8,22	100 pcs.
F B 30/3	28 - 30	slotted hex head	6	051601	8,32	100 pcs.



for three cables

In version F, the steel pressure trough is pre-galvanised acc. to DIN EN 10346.

Used for: slot width 16-17 mm

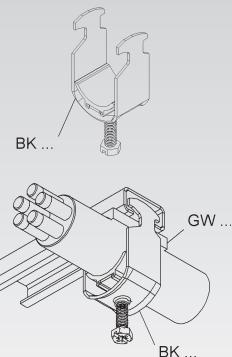
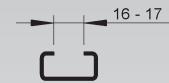
Please order GW... / GWS... counter pressure troughs and DW... double sided cable saddle separately.



U-clamp

with plastic pressure trough

	Model No.	For cable-Ø mm	Screw head	Thread M	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F	BK 14	8 - 14	slotted hex head	6	084401	3,42	100 pcs.
F	BK 18	12 - 18	slotted hex head	6	084500	3,65	100 pcs.
F	BK 22	16 - 22	slotted hex head	6	084609	3,92	100 pcs.
F	BK 26	22 - 26	slotted hex head	6	084708	4,28	100 pcs.
F	BK 30	22 - 30	slotted hex head	6	084807	4,67	100 pcs.
F	BK 34	28 - 34	slotted hex head	6	084906	5,05	100 pcs.
F	BK 38	34 - 38	slotted hex head	6	085002	7,37	100 pcs.
F	BK 42	34 - 42	slotted hex head	6	085101	8,02	100 pcs.
F	BK 46	40 - 46	slotted hex head	8	085200	9,30	100 pcs.
F	BK 50	46 - 50	slotted hex head	8	085309	9,86	50 pcs.
F	BK 54	46 - 54	slotted hex head	8	085408	10,99	50 pcs.
F	BK 58	52 - 58	slotted hex head	8	085507	11,61	50 pcs.
F	BK 64	58 - 64	slotted hex head	8	085606	12,55	50 pcs.
F	BK 70	64 - 70	slotted hex head	8	085705	12,94	50 pcs.
F	BK 76	70 - 76	slotted hex head	8	085804	17,53	50 pcs.
F	BK 82	76 - 82	slotted hex head	8	085903	18,39	50 pcs.
F	BK 90	82 - 90	slotted hex head	8	086009	19,31	25 pcs.
F	BK 100	90 - 100	slotted hex head	8	086108	21,75	25 pcs.
F	BK 110	100 - 110	slotted hex head	8	086207	22,97	25 pcs.



for one cable

In version F, the pressure trough is made of polypropylene, halogen-free and the trough insert is strip galvanised acc. to DIN EN 10346.

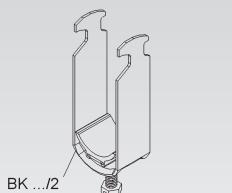
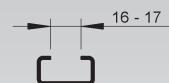
Used for: slot width 16-17 mm

Please order GW... / GWS... counter pressure troughs separately.

U-clamp

with plastic pressure trough

	Model No.	For cable-Ø mm	Screw head	Thread M	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F	BK 14/2	12 - 14	slotted hex head	6	086306	4,73	100 pcs.
F	BK 18/2	14 - 18	slotted hex head	6	086405	4,78	100 pcs.
F	BK 22/2	18 - 22	slotted hex head	6	086504	5,52	100 pcs.
F	BK 26/2	22 - 26	slotted hex head	6	086603	5,94	100 pcs.
F	BK 30/2	26 - 30	slotted hex head	6	086702	6,63	100 pcs.
F	BK 34/2	30 - 34	slotted hex head	6	086801	7,30	100 pcs.
F	BK 38/2	34 - 38	slotted hex head	6	086900	11,62	50 pcs.
F	BK 42/2	38 - 42	slotted hex head	6	087006	12,23	50 pcs.
F	BK 46/2	42 - 46	slotted hex head	8	087105	13,69	50 pcs.
F	BK 50/2	46 - 50	slotted hex head	8	087204	14,73	50 pcs.

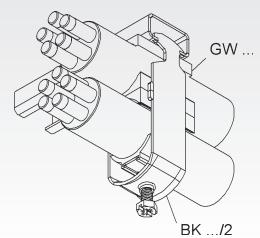


for two cables

In version F, the pressure trough is made of polypropylene, halogen-free and the trough insert is strip galvanised acc. to DIN EN 10346.

Used for: slot width 16-17 mm

Please order GW... / GWS... counter pressure troughs and DW... double sided cable saddle separately.

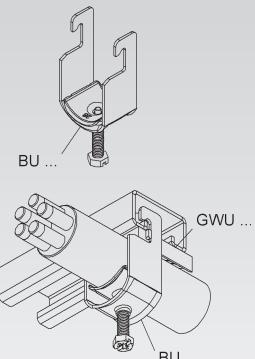
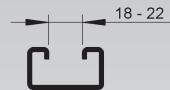


VERTICAL CABLE LADDER SYSTEM

U-clamp

with pressure trough

Model No.	For cable-Ø mm	Screw head	Thread M	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F BU 12	6 - 12	slotted hex head	6	064601	2,83	100 pcs.
F BU 14	10 - 14	slotted hex head	6	064700	3,16	100 pcs.
F BU 16	12 - 16	slotted hex head	6	064908	3,30	100 pcs.
F BU 18	14 - 18	slotted hex head	6	065004	3,46	100 pcs.
F BU 22	16 - 22	slotted hex head	6	065103	3,91	100 pcs.
F BU 26	22 - 26	slotted hex head	6	065202	4,33	100 pcs.
F BU 30	22 - 30	slotted hex head	6	065301	4,81	100 pcs.
F BU 34	28 - 34	slotted hex head	6	065400	6,06	100 pcs.
F BU 38	34 - 38	slotted hex head	6	065509	8,03	100 pcs.
F BU 42	34 - 42	slotted hex head	6	065608	8,61	100 pcs.
F BU 46	40 - 46	slotted hex head	8	065707	9,95	100 pcs.
F BU 50	46 - 50	slotted hex head	8	065806	10,31	50 pcs.
F BU 54	46 - 54	slotted hex head	8	065905	11,25	50 pcs.
F BU 58	52 - 58	slotted hex head	8	066001	11,88	50 pcs.
F BU 64	58 - 64	slotted hex head	8	066100	12,68	50 pcs.
F BU 70	64 - 70	slotted hex head	8	066209	14,15	50 pcs.
F BU 76	70 - 76	slotted hex head	8	066308	17,83	50 pcs.
F BU 82	76 - 82	slotted hex head	8	066407	18,40	50 pcs.
F BU 90	82 - 90	slotted hex head	8	066506	20,34	50 pcs.
F BU 100	90 - 100	slotted hex head	8	066605	22,62	25 pcs.
F BU 110	100 - 110	slotted hex head	8	066704	24,77	25 pcs.



for one cable

In version F, the steel pressure trough is pre-galvanised acc. to DIN EN 10346.

Used for: slot width 18-22 mm

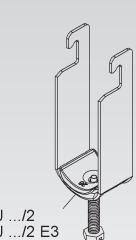
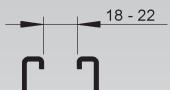
Please order GWU... / GWS... counter pressure troughs separately.

Also available in stainless steel.

U-clamp

with pressure trough

Model No.	For cable-Ø mm	Screw head	Thread M	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F BU 12/2	10 - 12	slotted hex head	6	066803	3,67	100 pcs.
F BU 14/2	12 - 14	slotted hex head	6	066902	4,14	100 pcs.
F BU 16/2	14 - 16	slotted hex head	6	067008	4,37	100 pcs.
F BU 18/2	16 - 18	slotted hex head	6	067107	4,64	100 pcs.
F BU 22/2	18 - 22	slotted hex head	6	067206	5,40	100 pcs.
F BU 26/2	22 - 26	slotted hex head	6	067305	6,21	100 pcs.
F BU 30/2	26 - 30	slotted hex head	6	067404	6,87	100 pcs.
F BU 34/2	30 - 34	slotted hex head	6	067503	8,36	100 pcs.
F BU 38/2	34 - 38	slotted hex head	6	067602	11,45	50 pcs.
F BU 42/2	38 - 42	slotted hex head	6	067701	12,43	50 pcs.
F BU 46/2	42 - 46	slotted hex head	8	067800	13,91	50 pcs.
F BU 50/2	46 - 50	slotted hex head	8	067909	14,92	50 pcs.



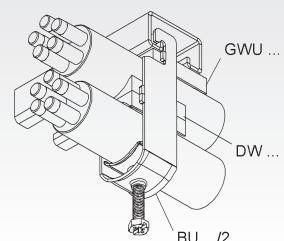
for two cables

In version F, the steel pressure trough is pre-galvanised acc. to DIN EN 10346.

Used for: slot width 18-22 mm

Please order GWU... / GWS... counter pressure troughs and DW... double sided cable saddle separately.

Also available in stainless steel.



U-clamp

with pressure trough

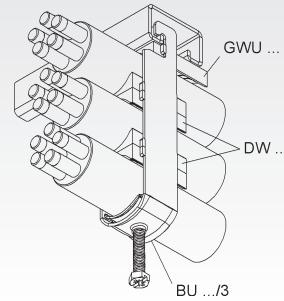
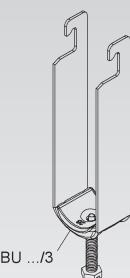
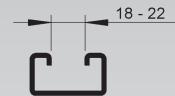
	Model No.	For cable-Ø mm	Screw head	Thread M	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F	BU 12/3	10 - 12	slotted hex head	6	068005	4,61	100 pcs.
F	BU 14/3	12 - 14	slotted hex head	6	068104	5,11	100 pcs.
F	BU 16/3	14 - 16	slotted hex head	6	068203	5,47	100 pcs.
F	BU 18/3	16 - 18	slotted hex head	6	068302	5,83	100 pcs.
F	BU 20/3	18 - 20	slotted hex head	6	068401	6,27	100 pcs.
F	BU 22/3	20 - 22	slotted hex head	6	068500	6,91	100 pcs.
F	BU 24/3	22 - 24	slotted hex head	6	068609	7,48	100 pcs.
F	BU 26/3	24 - 26	slotted hex head	6	068708	7,87	100 pcs.
F	BU 28/3	26 - 28	slotted hex head	6	068807	8,35	100 pcs.
F	BU 30/3	28 - 30	slotted hex head	6	068906	8,82	100 pcs.

for three cables

In version F, the steel pressure trough is pre-galvanised acc. to DIN EN 10346.

Used for: slot width 18-22 mm

Please order GW... / GWS... counter pressure troughs and DW... double sided cable saddle separately.



U-clamp

with plastic pressure trough

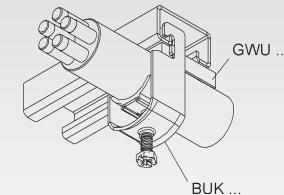
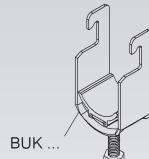
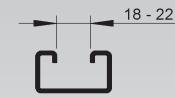
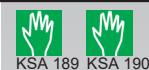
	Model No.	For cable-Ø mm	Screw head	Thread M	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F	BUK 14	8 - 14	slotted hex head	6	096008	3,55	100 pcs.
F	BUK 18	12 - 18	slotted hex head	6	096107	3,77	100 pcs.
F	BUK 22	16 - 22	slotted hex head	6	096206	4,10	100 pcs.
F	BUK 26	22 - 26	slotted hex head	6	096305	4,54	100 pcs.
F	BUK 30	22 - 30	slotted hex head	6	096404	4,94	100 pcs.
F	BUK 34	28 - 34	slotted hex head	6	096503	5,17	100 pcs.
F	BUK 38	34 - 38	slotted hex head	6	096602	7,55	100 pcs.
F	BUK 42	34 - 42	slotted hex head	6	096701	7,98	100 pcs.
F	BUK 46	40 - 46	slotted hex head	8	096800	9,29	100 pcs.
F	BUK 50	46 - 50	slotted hex head	8	096909	9,78	50 pcs.
F	BUK 54	46 - 54	slotted hex head	8	097005	10,79	50 pcs.
F	BUK 58	52 - 58	slotted hex head	8	097104	11,34	50 pcs.
F	BUK 64	58 - 64	slotted hex head	8	097203	11,80	50 pcs.
F	BUK 70	64 - 70	slotted hex head	8	097302	12,54	50 pcs.
F	BUK 76	70 - 76	slotted hex head	8	097401	16,39	50 pcs.
F	BUK 82	76 - 82	slotted hex head	8	097500	17,35	50 pcs.
F	BUK 90	82 - 90	slotted hex head	8	097609	18,51	25 pcs.
F	BUK 100	90 - 100	slotted hex head	8	097708	20,75	25 pcs.
F	BUK 110	100 - 110	slotted hex head	8	097807	22,36	25 pcs.

for one cable

In version F, the pressure trough is made of polypropylene, halogen-free and the trough insert is strip galvanised acc. to DIN EN 10346.

Used for: slot width 18-22 mm

Please order GWU... / GWS... counter pressure troughs separately.



VERTICAL CABLE LADDER SYSTEM

U-clamp

with plastic pressure trough

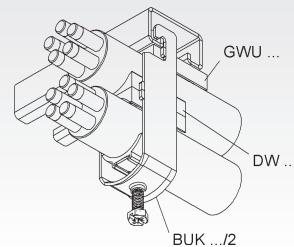
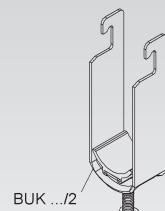
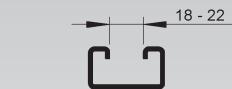
	Model No.	For cable-Ø mm	Screw head	Thread M	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F	BUK 14/2	12 - 14	slotted hex head	6	097906	4,62	100 pcs.
F	BUK 18/2	14 - 18	slotted hex head	6	098002	5,16	100 pcs.
F	BUK 22/2	18 - 22	slotted hex head	6	098101	5,52	100 pcs.
F	BUK 26/2	22 - 26	slotted hex head	6	098200	6,05	100 pcs.
F	BUK 30/2	26 - 30	slotted hex head	6	098309	6,86	100 pcs.
F	BUK 34/2	30 - 34	slotted hex head	6	098408	7,42	100 pcs.
F	BUK 38/2	34 - 38	slotted hex head	6	098507	10,99	50 pcs.
F	BUK 42/2	38 - 42	slotted hex head	6	098606	11,97	50 pcs.
F	BUK 46/2	42 - 46	slotted hex head	8	098705	13,76	50 pcs.
F	BUK 50/2	46 - 50	slotted hex head	8	098804	14,61	50 pcs.

for two cables

In version F, the pressure trough is made of polypropylene, halogen-free and the trough insert is strip galvanised acc. to DIN EN 10346.

Used for: slot width 18-22 mm

Please order GW... / GWS... counter pressure troughs and DW... double sided cable saddle separately.

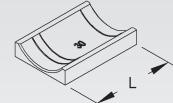
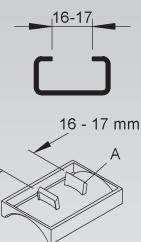


Counter Pressure Trough for all U-clamps

	Model No.	Colour similar RAL	For cable-Ø mm	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
K03	GW 12	7035	6 - 12	40	105403	0,10	100 pcs.
K03	GW 14	7035	10 - 14	40	105502	0,11	100 pcs.
K03	GW 16	7035	12 - 16	40	105601	0,12	100 pcs.
K03	GW 18	7035	14 - 18	40	105700	0,12	100 pcs.
K03	GW 22	7035	18 - 22	40	105809	0,18	100 pcs.
K03	GW 26	7035	22 - 26	40	105908	0,22	100 pcs.
K03	GW 30	7035	26 - 30	40	106004	0,26	100 pcs.
K03	GW 34	7035	30 - 34	40	106103	0,33	100 pcs.
K03	GW 38	7035	34 - 38	40	106202	0,52	50 pcs.
K03	GW 42	7035	38 - 42	40	106301	0,56	50 pcs.
K03	GW 46	7035	42 - 46	40	106400	0,65	50 pcs.
K03	GW 50	7035	46 - 50	40	106509	0,72	50 pcs.
K03	GW 54	7035	50 - 54	45	106608	1,23	50 pcs.
K03	GW 58	7035	54 - 58	45	106707	1,33	50 pcs.
K03	GW 64	7035	58 - 64	45	106806	1,50	50 pcs.
K03	GW 70	7035	64 - 70	45	106905	1,58	50 pcs.
K03	GW 76	7035	70 - 76	45	107001	1,78	25 pcs.
K03	GW 82	7035	76 - 82	45	107100	1,85	25 pcs.
K03	GW 90	7035	82 - 90	45	107209	2,12	25 pcs.
K03	GW 100	7035	90 - 100	45	107308	2,57	25 pcs.
K03	GW 110	7035	100 - 110	45	107407	2,90	25 pcs.

self-adhesive by clamping spring (A)

Used for: slot width 16-17 mm



Counter Pressure Trough for all U-clamps

Model No.	Colour similar RAL	For cable-Ø mm	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
K02 GWU 12	7035	6 - 12	40	109609	0,08	100 pcs.
K02 GWU 14	7035	10 - 14	40	109708	0,10	100 pcs.
K02 GWU 16	7035	12 - 16	40	110001	0,12	100 pcs.
K02 GWU 18	7035	14 - 18	40	110100	0,13	100 pcs.
K02 GWU 22	7035	18 - 22	40	110209	0,23	100 pcs.
K02 GWU 26	7035	22 - 26	40	110308	0,28	100 pcs.
K02 GWU 30	7035	26 - 30	40	110407	0,37	100 pcs.
K02 GWU 34	7035	30 - 34	40	110506	0,42	100 pcs.
K02 GWU 38	7035	34 - 38	40	110605	0,60	50 pcs.
K02 GWU 42	7035	38 - 42	40	110704	0,66	50 pcs.
K02 GWU 46	7035	42 - 46	40	110803	0,73	50 pcs.
K02 GWU 50	7035	46 - 50	40	110902	0,81	50 pcs.
K02 GWU 54	7035	50 - 54	45	111008	1,27	50 pcs.
K02 GWU 58	7035	54 - 58	45	111107	1,42	50 pcs.
K02 GWU 64	7035	58 - 64	45	111206	1,53	50 pcs.
K02 GWU 70	7035	64 - 70	45	111305	1,66	50 pcs.
K02 GWU 76	7035	70 - 76	45	111404	1,90	25 pcs.
K02 GWU 82	7035	76 - 82	45	111503	2,04	25 pcs.
K02 GWU 90	7035	82 - 90	45	111602	2,36	25 pcs.
K02 GWU 100	7035	90 - 100	45	111701	2,72	25 pcs.
K02 GWU 110	7035	100 - 110	45	111800	3,23	25 pcs.



for insertion into the clamp bracket

Double Trough for all U-clamps

Model No.	Colour similar RAL	For cable-Ø mm	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
K02 DW 12	7035	8 - 12	40	111909	0,17	100 pcs.
K02 DW 14	7035	12 - 14	40	112005	0,22	100 pcs.
K02 DW 16	7035	14 - 16	40	112104	0,28	100 pcs.
K02 DW 18	7035	16 - 18	40	112203	0,31	100 pcs.
K02 DW 20	7035	18 - 20	40	112302	0,31	100 pcs.
K02 DW 22	7035	20 - 22	40	112401	0,45	100 pcs.
K02 DW 26	7035	22 - 26	40	112609	0,37	100 pcs.
K02 DW 30	7035	26 - 30	40	112807	0,74	100 pcs.
K02 DW 34	7035	30 - 34	40	112906	0,84	50 pcs.
K02 DW 38	7035	34 - 38	40	113002	1,19	50 pcs.
K02 DW 42	7035	38 - 42	40	113101	1,33	50 pcs.
K02 DW 46	7035	42 - 46	40	113200	1,47	50 pcs.
K02 DW 50	7035	46 - 50	40	113309	1,63	50 pcs.



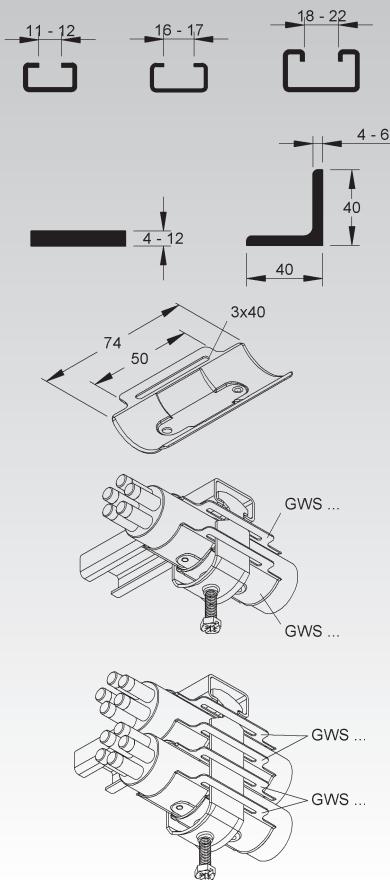
for 2 or 3 cables, for insertion between the cables

VERTICAL CABLE LADDER SYSTEM

Counter Pressure Trough for all U-clamps

Model No.	For cable-Ø mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S GWS 14	10 - 14	107414	0,85	50 pcs.
S GWS 16	12 - 16	107421	0,96	50 pcs.
S GWS 18	14 - 18	107438	1,03	50 pcs.
S GWS 22	18 - 22	107445	1,27	50 pcs.
S GWS 26	22 - 26	107452	1,48	50 pcs.
S GWS 30	26 - 30	107469	1,71	50 pcs.
S GWS 34	30 - 34	107476	1,89	50 pcs.
S GWS 38	34 - 38	107483	2,20	50 pcs.

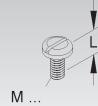
for sliding onto the U-clamp



Slotted Pan Head Bolt, acc. to DIN EN 1580

Model No.	Thread M	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V FK 6X12	6	12	207053	0,52	25 pcs.

for fixing the perforated cable trays on the C-profile 2970 with the inclined slide nut GSF 0406



Mushroom Head Bolt, similar to DIN 603

incl. serrated flange nut, acc. to DIN EN 1661

Model No.	Thread M	Length L mm	Resistance class	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V FLM 6X12	6	12	-	206209	0,79	10 pcs.
F FLM 6X12 F	6	12	-	206407	0,79	50 pcs.
F FLM 6X16 F	6	16	-	206506	0,86	50 pcs.
F FLM 8X13 F	8	13	8.8	206605	2,00	10 pcs.
F FLM 8X16 F	8	16	8.8	206704	2,09	50 pcs.
F FLM 8X25 F	8	25	8.8	206803	2,34	50 pcs.
F FLM 10X25 F	10	25	8.8	206902	4,00	50 pcs.
F FLM 12X30 F	12	30	8.8	207008	8,00	50 pcs.
E3 FLM 6X12 E3	6	12	1.4301	343805	0,81	50 pcs.



Mushroom Head Bolt acc. to DIN 603

incl. large washer acc. to DIN EN ISO 7093-1 and toothed flange nut acc. to DIN EN 1661

Model No.	Thread M	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V FLDM 6X45	6	45	207060	1,56	50 pcs.
V FLDM 6X60 V	6	60	064748	2,08	50 pcs.
E3 FLDM 6X45 E3	6	45	343829	1,56	50 pcs.
E3 FLDM 8X45 E3	8	45	343867	1,80	50 pcs.



for cable and wide span cable tray mounting on perforated C-profiles



Mushroom Head Bolt, similar to DIN 603

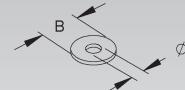
incl. large washer acc. to DIN EN ISO 7093-1 and toothed flange nut

Model No.	Thread M	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
F FLMU 6X20 F	6	20	064779	1,42	100 pcs.



Large Diameter Washer, acc. to DIN EN ISO 7093-1

Model No.	Mounting hole -Ø mm	Width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V UGM 6	6,4	18	208906	0,26	100 pcs.
V UGM 8	8,4	24	209002	0,68	100 pcs.
V UGM 10	10,5	30	209101	1,22	100 pcs.
V UGM 12 V	13	37	072378	2,22	100 pcs.
E3 UGM 6 E3	6,4	18	927258	0,26	100 pcs.
E3 UGM 8 E3	8,4	24	931248	0,68	100 pcs.
E3 UGM 10 E3	10,5	30	936854	1,22	100 pcs.
E3 UGM 12 E3	13	37	072385	2,23	100 pcs.



for fixing cable ladders on brackets and for fixing cable trays on perforated C-profiles as well as for covering larger fixing holes

Hexagon Head Bolt, acc. to DIN EN ISO 4017

incl. serrated flange nut, acc. to DIN EN 1661

Model No.	Thread M	Length L mm	Resistance class	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V SKM 8X16 V	8	16	8.8	207107	1,72	50 pcs.
V SKM 10X25 V	10	25	8.8	207305	3,60	50 pcs.
V SKM 10X40 V	10	40	8.8	207404	4,50	50 pcs.
V SKM 10X50 V	10	50	8.8	207503	5,00	50 pcs.
V SKM 10X70 V	10	70	8.8	207541	5,50	50 pcs.
V SKM 12X50 V	12	50	10,9	064731	7,00	20 pcs.
V SKM 12X70 V	12	70	10,9	207565	8,44	20 pcs.
F SKM 10X80 F	10	80	8.8	886203	6,00	50 pcs.
F SKM 10X90 F	10	90	8.8	893485	6,50	50 pcs.
E3 SKM 8X16 E3	8	16	1.4301	343904	1,72	50 pcs.
E3 SKM 8X40 E3	8	40	1.4301	343959	2,00	20 pcs.
E3 SKM 10X25 E3	10	25	1.4301	344000	3,89	50 pcs.
E3 SKM 10X40 E3	10	40	1.4301	344048	4,50	50 pcs.
E3 SKM 10X70 E3	10	70	1.4301	344086	5,98	50 pcs.
E3 SKM 10X90 E3	10	90	1.4301	344093	6,50	50 pcs.



The strength classes of the screws are stamped on the screw heads.

Especially for connections that have to transmit vertical loads via friction, it is essential to pay attention to the screw tightening torque and to check it with a torque wrench!

SKM 8..., screw tightening torque 24.6 Nm, width across flats 13

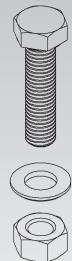
SKM 10..., screw tightening torque 48 Nm, width across flats 17/16

SKM 12..., screw tightening torque 123 Nm, width across flats 19

Hexagon Head Bolt, acc. to DIN EN ISO 4017

incl. hexagon nut acc. to DIN EN ISO 4032 and washer acc. to DIN EN ISO 7089

Model No.	Thread M	Length L mm	Resistance class	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V SKM 16X40 V	16	40	8.8	207589	12,70	20 pcs.
F SKM 12X50 F	12	50	10,9	071531	8,27	20 pcs.
F SKM 12X70 F	12	70	10,9	071548	9,85	20 pcs.
E5 SKM 8X16 E5	8	16	1.4571	729203	1,72	50 pcs.
E5 SKM 10X25 E5	10	25	1.4571	729302	4,00	50 pcs.



The strength classes of the screws are stamped on the screw heads.

Especially for connections that have to transmit vertical loads via friction, it is essential to pay attention to the screw tightening torque and to check it with a torque wrench!

SKM 16..., screw tightening torque 206 Nm, width across flats 24

SKM 12..., screw tightening torque 123 Nm, width across flats 19

SKM 8..., screw tightening torque 24.6 Nm, width across flats 13

SKM 10..., screw tightening torque 48 Nm, width across flats 17/16

VERTICAL CABLE LADDER SYSTEM

Zinc Spray (400 ml)

Model No.	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
ZKS	206056	50	1 pc.

for subsequent repair of zinc coating, use in dry indoor environment only

The composition of the zinc spray meets the requirements of DIN EN ISO 1461



Zinc Powder Paint (1.000 ml)

Model No.	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
ZKF 1	205905	170	1 pc.

DIN EN ISO 1461 compliant

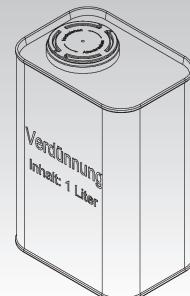
Only use ZKV 1 for dilution!



Dilution (1.000 ml)

Model No.	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
ZKV 1	206001	110	1 pc.

Used for: zinc powder paint ZKF 1





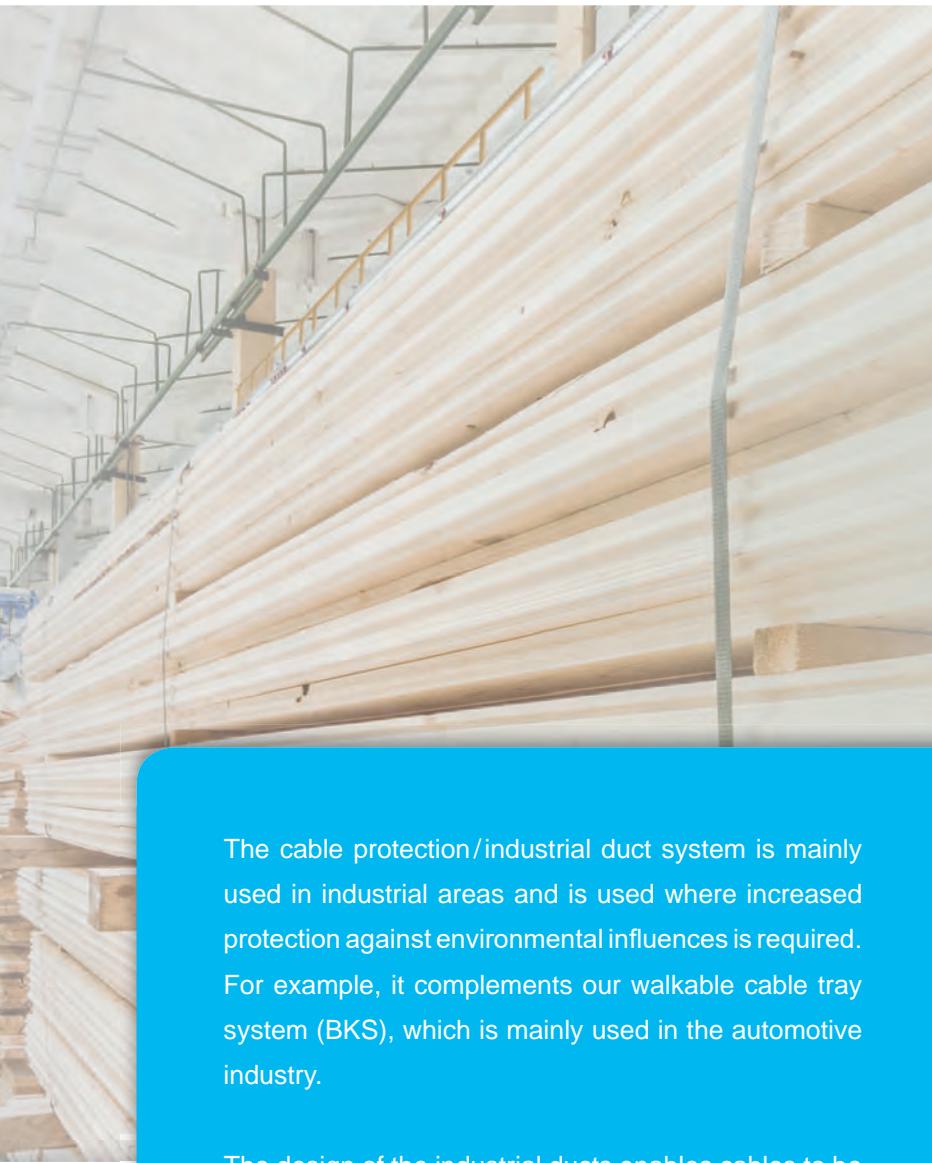
NOTES



CABLE PROTECTION DUCT

- Cable Protection Ducts
- Industrial Ducts
- Fittings
- Accessories





The cable protection/industrial duct system is mainly used in industrial areas and is used where increased protection against environmental influences is required. For example, it complements our walkable cable tray system (BKS), which is mainly used in the automotive industry.

The design of the industrial ducts enables cables to be routed to many end devices and consumers. Due to the systematically thought-out perforation with large cable outlets in the floor and on the sides, it is possible to lead cables out at any point of the duct.

On the right you will find a selection of the most frequently used articles, more on the following pages.

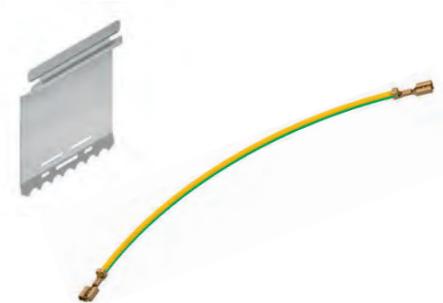
LLK 60...



LI 60...



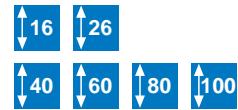
LST... + GSLH...



LER...



CABLE PROTECTION DUCT SYSTEM

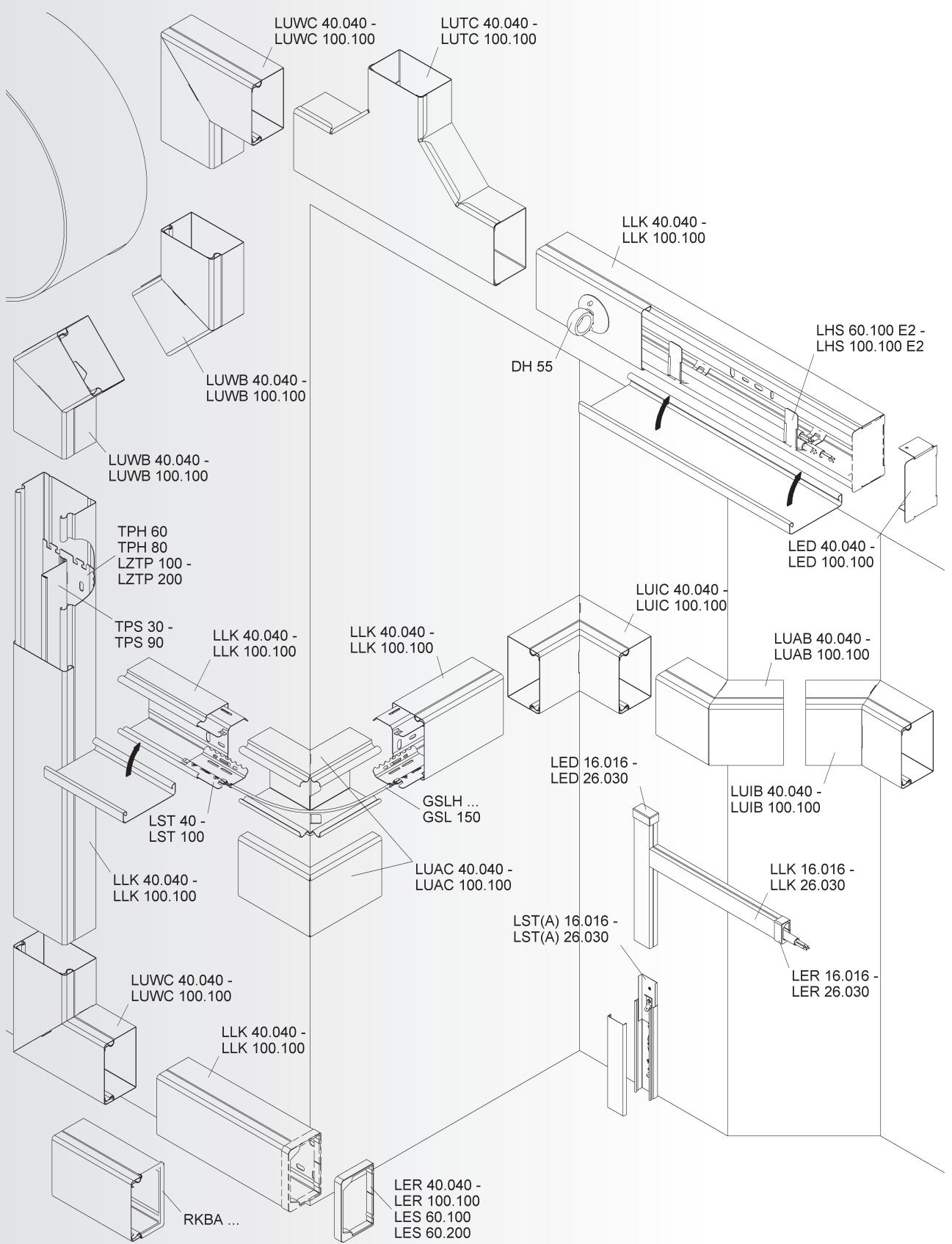


System overview of the cable protection ducts

SYSTEM	Cable Protection Duct	LLK...	[16]	Page 140	[26]	Page 140			
ACCESSORIES	Boltless Splice Plate	LST...	[16]	Page 140	[26]	Page 140			
	Boltless Splice Plate	LSTA...	[16]	Page 141	[26]	Page 141			
	End-Cap	LED...	[16]	Page 141	[26]	Page 141			
	End-Protection Ring	LER...	[16]	Page 141	[26]	Page 141			
SYSTEM	Cable Protection Duct with perforated bottom	LLK...	[40]	Page 142	[60]	Page 142	[80]	Page 142	[100] Page 142
ACCESSORIES	Cable Protection Duct without perforated bottom	LUK...	[40]	Page 143	[60]	Page 143	[80]	Page 143	[100] Page 143
	Boltless Splice Plate	LST...	[40]	Page 143	[60]	Page 143	[80]	Page 143	[100] Page 143
	Lifter for Covers	DH 55		Page 143					
	Mounting Plate for Barrier Strip	TPH...		Page 143					
	Mounting Plate for Barrier Strip with strain relief	LZTP...		Page 144					
	Barrier Strip	TPS...		Page 144					
	Outside Elbow 45°	LUAB...	[40]	Page 144	[60]	Page 144	[80]	Page 144	[100] Page 144
	Inside Elbow 45°	LUIB...	[40]	Page 145	[60]	Page 145	[80]	Page 145	[100] Page 145
	Vertical Elbow 45°	LUWB...	[40]	Page 145	[60]	Page 145	[80]	Page 145	[100] Page 145
	Outside Elbow 90°	LUAC...	[40]	Page 145	[60]	Page 145	[80]	Page 145	[100] Page 145
	Inside Elbow 90°	LUIC...	[40]	Page 146	[60]	Page 146	[80]	Page 146	[100] Page 146
	Vertical Elbow 90°	LUWC...	[40]	Page 146	[60]	Page 146	[80]	Page 146	[100] Page 146
	Horizontal Tee	LUTC...	[40]	Page 146	[60]	Page 146	[80]	Page 146	[100] Page 146
	End-Cap	LED...	[40]	Page 147	[60]	Page 147	[80]	Page 147	[100] Page 147
	End-Protection Ring	LER...	[40]	Page 147	[60]	Page 147	[80]	Page 147	[100] Page 147
	End-Protection Ring	LES...	[40]	—	[60]	Page 148	[80]	—	[100] —
	Cable Retainer Clamp	LHS...		Page 147					
	Edge Protection Strip	RKBA...		Page 148					
	Equipotential Bonding Wire	GSL 150		Page 148					
	Equipotential Bonding Wire	GSLH...		Page 149					
	Flat Plug 6,3 mm	GSSL 63		Page 149					

All channels and fittings incl. cover.





CABLE PROTECTION DUCT SYSTEM

Cable Protection Duct

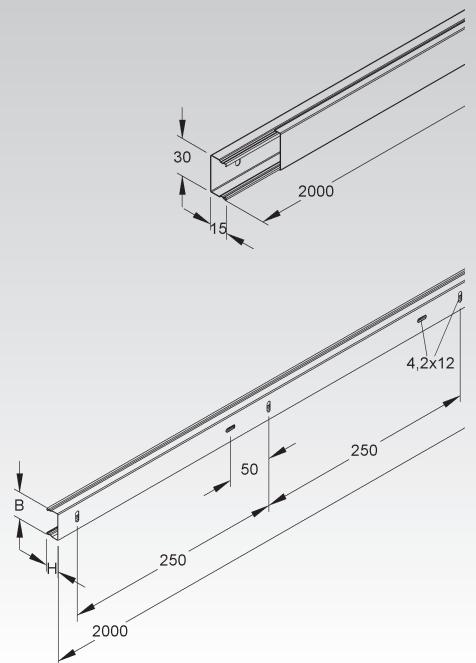
incl. cover

Model No.	Height H mm	Width B mm	RAL colour	EAN code	Weight in kg per 100 m	Smallest packaging unit
S LLK 16.016	16	16	—	506705	31,33	48 x 2 m
S LLK 16.030	16	30	—	506804	42,50	30 x 2 m

Also available with powder coating in standard and special colours as well as in stainless steel.



KSA 211



Cable Protection Duct

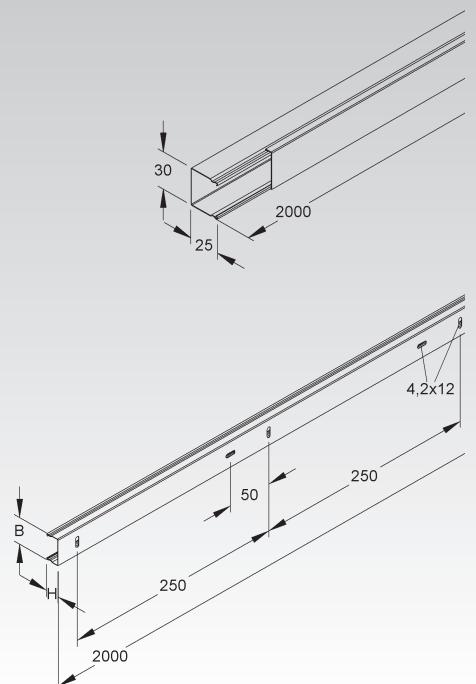
incl. cover

Model No.	Height H mm	Width B mm	RAL colour	EAN code	Weight in kg per 100 m	Smallest packaging unit
S LLK 26.030	26	30	—	506903	52,5	18 x 2 m

Also available with powder coating in standard and special colours as well as in stainless steel.



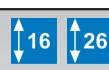
KSA 211



Boltless Splice Plate

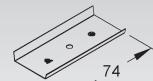
Model No.	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
MS LST 16.016	74	516209	0,62	20 pcs.
MS LST 16.030	74	516308	0,99	20 pcs.
MS LST 26.030	74	516407	1,30	20 pcs.

connects the trunking bases electrically and mechanically in one operation



16

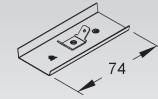
26



Boltless Splice Plate

with flat contact pin 6,3 mm

Model No.	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
MS LSTA 16.016	74	516704	0,80	10 pcs.
MS LSTA 16.030	74	516803	1,17	10 pcs.
MS LSTA 26.030	74	516902	1,48	10 pcs.



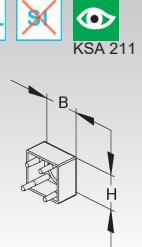
connects the trunking bases electrically and mechanically in one operation
for integrating all accessories made of conductive materials into the equipotential bonding system

Requirement: 1 piece per joint

Used for: cable protection ducts LLK...

End-Cap

Model No.	Height H mm	Width B mm	Colour	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
K04 LED 16.016	16	16	black	517725	0,10	20 pcs.
K04 LED 16.030	16	30	black	517732	0,18	20 pcs.
K04 LED 26.030	26	30	black	517749	0,23	20 pcs.

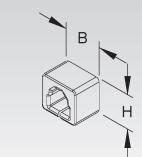


In personal danger areas, the end cover must be arranged!

Used for: cable protection ducts LLK...

End-Protection Ring

Model No.	Height H mm	Width B mm	RAL colour	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
K04 LER 16.016	16	16	7021	887606	0,15	20 pcs.
K04 LER 16.030	16	30	7021	887637	0,21	20 pcs.
K04 LER 26.030	26	30	7021	887668	0,27	20 pcs.



The end-protection ring must be arranged in personal danger areas!

Used for: cable protection ducts LLK...

LER... can be attached to the channel cable tray after installation.



CABLE PROTECTION DUCT SYSTEM

Cable Protection Duct

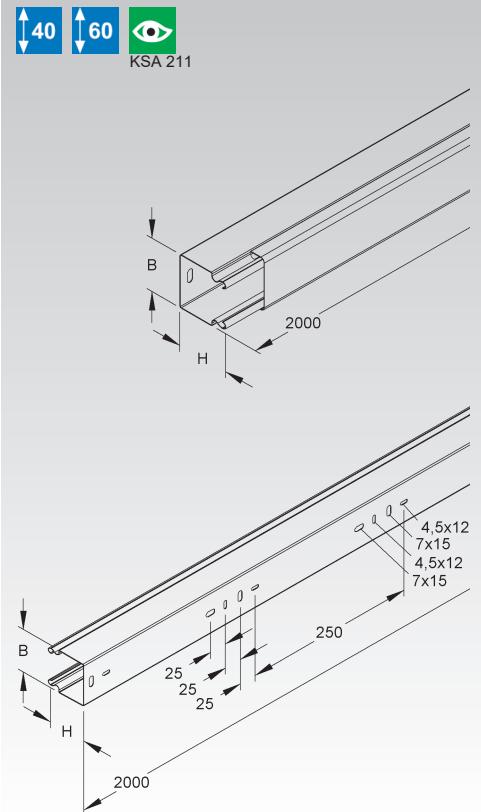
with perforated bottom, incl. cover

Model No.	Height H mm	Width B mm	RAL colour	EAN code	Weight in kg per 100 m	Smallest packaging unit
S LLK 40.040	40	40	—	508976	94,47	12 x 2 m
S LLK 40.060	40	60	—	509003	132,36	6 x 2 m
S LLK 60.060	60	60	—	509102	174,76	6 x 2 m

Attention: different hole patterns at different widths.

The equipotential bonding of the channels is carried out via the boltless splice plate LST... (please order separately), for the covers automatically when snapping on.

Also available with powder coating in standard and special colours as well as in stainless steel.



Cable Protection Duct

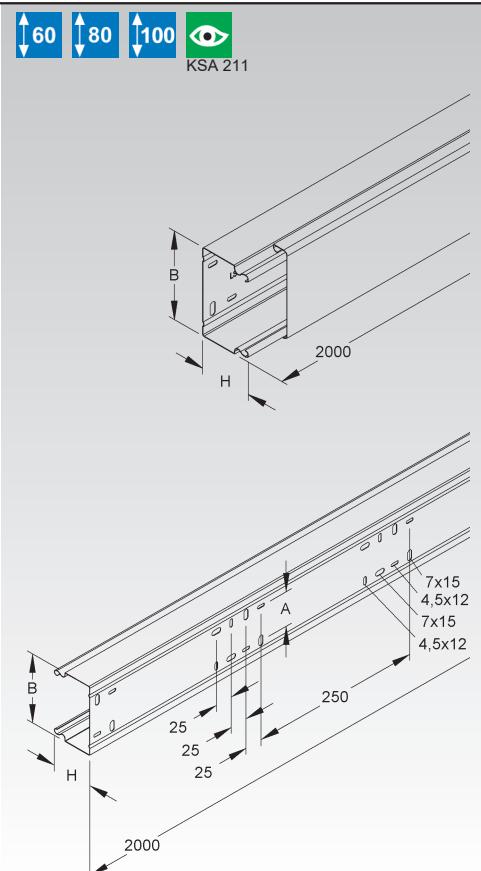
with perforated bottom, incl. cover

Model No.	Height H mm	Width B mm	Centered hole distance A mm	RAL colour	EAN code	Weight in kg per 100 m	Smallest packaging unit
S LLK 60.100	60	100	50	—	509201	235,04	4 x 2 m
S LLK 60.150	60	150	100	—	509300	351,30	2 x 2 m
S LLK 60.200	60	200	150	—	509409	421,95	2 x 2 m
S LLK 80.080	80	80	30	—	789702	233,90	4 x 2 m
S LLK 100.100	100	100	50	—	789757	319,69	4 x 2 m

Attention: different hole patterns at different widths.

The equipotential bonding of the channels is carried out via the boltless splice plate LST... (please order separately), for the covers automatically when snapping on.

Also available with powder coating in standard and special colours as well as in stainless steel.



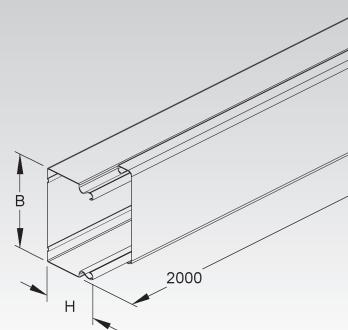
Cable Protection Duct

with perforated bottom, incl. cover

	Model No.	Height H mm	Width B mm	RAL colour	EAN code	Weight in kg per 100 m	Smallest packaging unit
S	LUK 40.040	40	40	—	508921	94,88	12 x 2 m
S	LUK 40.060	40	60	—	700004	132,89	6 x 2 m
S	LUK 60.060	60	60	—	700103	175,45	6 x 2 m
S	LUK 60.100	60	100	—	700202	236,45	4 x 2 m
S	LUK 60.150	60	150	—	700301	353,06	2 x 2 m
S	LUK 60.200	60	200	—	700400	423,71	2 x 2 m
S	LUK 80.080	79	80	—	508938	235,35	4 x 2 m
S	LUK 100.100	100	100	—	508945	321,25	4 x 2 m



KSA 211



The equipotential bonding of the channels is carried out via the boltless splice plate LST... (please order separately), for the covers automatically when snapping on.

Also available with powder coating in standard and special colours as well as in stainless steel.

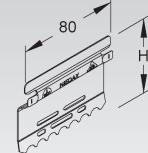
Boltless Splice Plate

with flat contact pin 6,3 mm

	Model No.	Height H mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	LST 40	40	516506	1,77	20 pcs.
S	LST 60	60	516605	2,71	20 pcs.
S	LST 80	80	516643	3,70	20 pcs.
S	LST 100	100	516667	4,63	20 pcs.



KSA 211



connects the trunking bases electrically and mechanically in one operation

Requirement: 2 pieces per joint

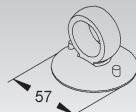
Used for: cable protection ducts LLK... and LUK...

Also available in stainless steel.

Lifter for Covers

	Model No.	Colour similar RAL	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
	DH 55	9005	417483	1,5	1 pc.

for quick disassembly of smooth covers from 60 mm width



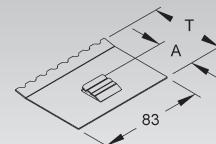
Mounting Plate for Barrier Strip

	Model No.	Depth T mm	Distance A mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	TPH 60	59	30	806003	3,44	20 pcs.
S	TPH 80	79	37	459278	4,58	20 pcs.

Used for: cable protection ducts LLK..., LUK... and industrial ducts LUE..., LI... can be used in the ground

The equipotential bonding takes place automatically when the unit is inserted.

Also available in stainless steel.



CABLE PROTECTION DUCT SYSTEM

Mounting Plate for Barrier Strip

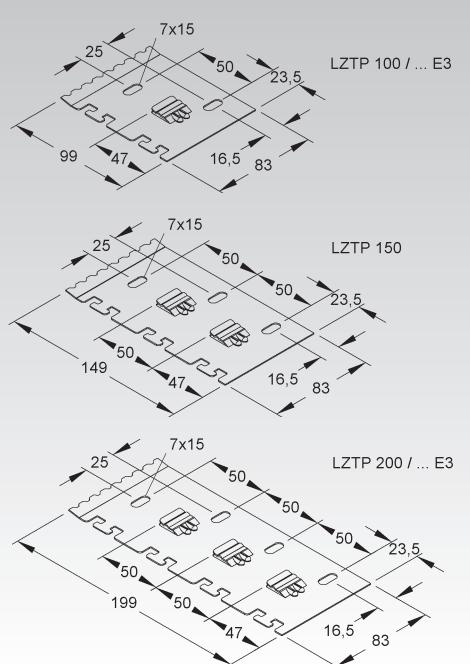
with strain relief

Model No.	Depth T mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S LZTP 100	99	833009	5,48	20 pcs.
S LZTP 150	149	833054	8,29	20 pcs.
S LZTP 200	199	833108	11,10	20 pcs.

Used for: cable protection ducts LLK..., LUK... and industrial ducts LUE..., LI... can be used in the ground

The equipotential bonding takes place automatically when the unit is inserted.

Also available in stainless steel.



Barrier Strip

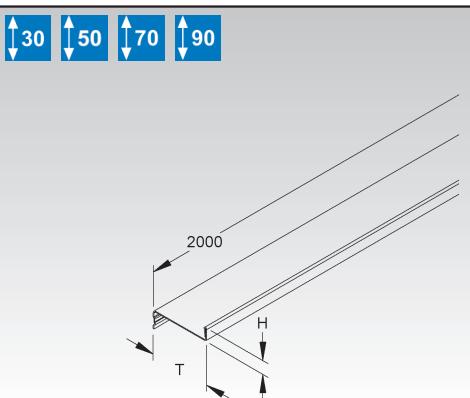
Model No.	Height H mm	Depth T mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S TPS 30	11	30	459223	36,47	10 x 2 m
S TPS 50	11	50	459247	48,31	10 x 2 m
S TPS 70	11	70	459261	59,97	10 x 2 m
S TPS 90	11	90	720309	71,72	10 x 2 m

for the separation of wires and cables with different functions and/or voltages

Used for: cable protection ducts LLK..., LUK... and industrial ducts LUE..., LI...

The equipotential bonding takes place automatically when clipping in.

Also available in stainless steel.



Outside Elbow 45°

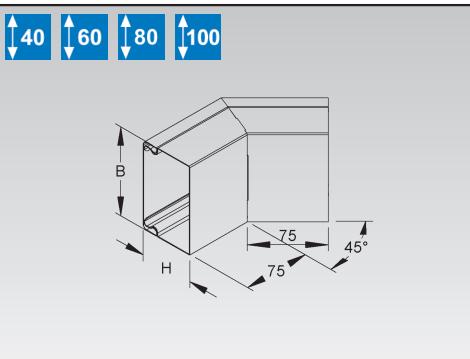
incl. cover

Model No.	Height H mm	Width B mm	RAL colour	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S LUAB 40.040	40	40	—	790609	17,96	8 pcs.
S LUAB 40.060	40	60	—	512706	25,31	8 pcs.
S LUAB 60.060	60	60	—	512805	35,61	8 pcs.
S LUAB 60.100	60	100	—	512904	45,61	8 pcs.
S LUAB 60.150	60	150	—	513000	63,83	4 pcs.
S LUAB 60.200	60	200	—	513109	76,82	4 pcs.
S LUAB 80.080	80	80	—	790708	46,28	4 pcs.
S LUAB 100.100	100	100	—	790753	67,99	4 pcs.

Used for: cable protection ducts LLK... and LUK...

The equipotential bonding of the channels is carried out via the boltless splice plate LST... (please order separately), for the covers automatically when snapping on.

Also available with powder coating in standard and special colours as well as in stainless steel.

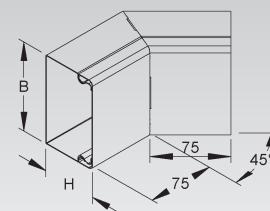


Inside Elbow 45°

incl. cover

	Model No.	Height H mm	Width B mm	RAL colour	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	LUIB 40.040	40	40	—	790203	16,65	8 pcs.
S	LUIB 40.060	40	60	—	512201	23,42	8 pcs.
S	LUIB 60.060	60	60	—	512300	32,89	8 pcs.
S	LUIB 60.100	60	100	—	512409	41,19	8 pcs.
S	LUIB 60.150	60	150	—	512508	61,84	4 pcs.
S	LUIB 60.200	60	200	—	512607	74,45	4 pcs.
S	LUIB 80.080	80	80	—	790302	42,98	8 pcs.
S	LUIB 100.100	100	100	—	790357	61,38	4 pcs.

40 60 80 100



Used for: cable protection ducts LLK... and LUK...

The equipotential bonding of the channels is carried out via the boltless splice plate LST... (please order separately), for the covers automatically when snapping on.

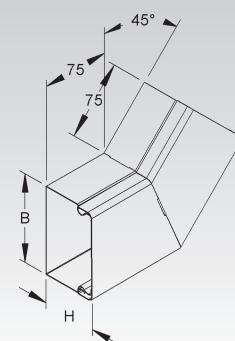
Also available with powder coating in standard and special colours as well as in stainless steel.

Vertical Elbow 45°

incl. cover

	Model No.	Height H mm	Width B mm	RAL colour	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	LUWB 40.040	40	40	—	511648	16,87	8 pcs.
S	LUWB 40.060	40	60	—	511709	25,24	8 pcs.
S	LUWB 60.060	60	60	—	511808	33,97	8 pcs.
S	LUWB 60.100	60	100	—	511907	46,20	8 pcs.
S	LUWB 60.150	60	150	—	512003	76,66	4 pcs.
S	LUWB 60.200	60	200	—	512102	101,32	4 pcs.
S	LUWB 80.080	80	80	—	789900	44,06	8 pcs.
S	LUWB 100.100	100	100	—	789955	65,01	4 pcs.

40 60 80 100



Used for: cable protection ducts LLK... and LUK...

The equipotential bonding of the channels is carried out via the boltless splice plate LST... (please order separately), for the covers automatically when snapping on.

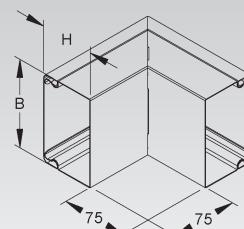
Also available with powder coating in standard and special colours as well as in stainless steel.

Outside Elbow 90°

incl. cover

	Model No.	Height H mm	Width B mm	RAL colour	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	LUAC 40.040	40	40	—	791804	22,39	8 pcs.
S	LUAC 40.060	40	60	—	514205	31,23	8 pcs.
S	LUAC 60.060	60	60	—	514304	42,98	8 pcs.
S	LUAC 60.100	60	100	—	514403	54,63	8 pcs.
S	LUAC 60.150	60	150	—	514502	77,54	4 pcs.
S	LUAC 60.200	60	200	—	514601	93,17	4 pcs.
S	LUAC 80.080	80	80	—	791903	58,70	8 pcs.
S	LUAC 100.100	100	100	—	791958	90,14	4 pcs.

40 60 80 100



Used for: cable protection ducts LLK... and LUK...

The equipotential bonding of the channels is carried out via the boltless splice plate LST... (please order separately), for the covers automatically when snapping on.

Also available with powder coating in standard and special colours as well as in stainless steel.

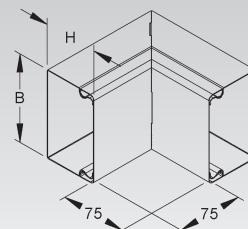
CABLE PROTECTION DUCT SYSTEM

Inside Elbow 90°

incl. cover

	Model No.	Height H mm	Width B mm	RAL colour	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	LUIC 40.040	40	40	—	791408	19,39	8 pcs.
S	LUIC 40.060	40	60	—	513703	26,51	8 pcs.
S	LUIC 60.060	60	60	—	513802	38,61	8 pcs.
S	LUIC 60.100	60	100	—	513901	48,59	8 pcs.
S	LUIC 60.150	60	150	—	514007	73,86	4 pcs.
S	LUIC 60.200	60	200	—	514106	89,28	4 pcs.
S	LUIC 80.080	80	80	—	791507	52,56	8 pcs.
S	LUIC 100.100	100	100	—	791552	78,71	4 pcs.

40 60 80 100



Used for: cable protection ducts LLK... and LUK...

The equipotential bonding of the channels is carried out via the boltless splice plate LST... (please order separately), for the covers automatically when snapping on.

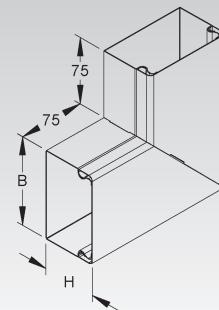
Also available with powder coating in standard and special colours as well as in stainless steel.

Vertical Elbow 90°

incl. cover

	Model No.	Height H mm	Width B mm	RAL colour	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	LUWC 40.040	40	40	—	791002	19,28	8 pcs.
S	LUWC 40.060	40	60	—	513208	30,11	8 pcs.
S	LUWC 60.060	60	60	—	513307	40,51	8 pcs.
S	LUWC 60.100	60	100	—	513406	59,75	8 pcs.
S	LUWC 60.150	60	150	—	513505	108,21	4 pcs.
S	LUWC 60.200	60	200	—	513604	151,63	4 pcs.
S	LUWC 80.080	80	80	—	791101	55,37	8 pcs.
S	LUWC 100.100	100	100	—	791156	84,09	4 pcs.

40 60 80 100



Used for: cable protection ducts LLK... and LUK...

The equipotential bonding of the channels is carried out via the boltless splice plate LST... (please order separately), for the covers automatically when snapping on.

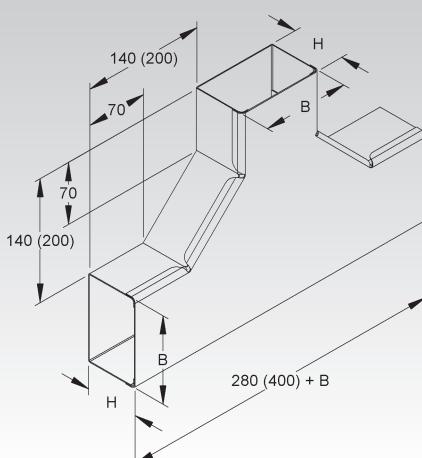
Also available with powder coating in standard and special colours as well as in stainless steel.

Horizontal Tee

incl. cover

	Model No.	Height H mm	Width B mm	RAL colour	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	LUTC 40.060	40	60	—	514700	92,36	1 pc.
S	LUTC 60.060	60	60	—	514809	106,50	1 pc.
S	LUTC 60.100	60	100	—	514908	145,29	1 pc.
S	LUTC 60.150	60	150	—	515004	200,84	1 pc.
S	LUTC 60.200	60	200	—	515103	264,25	1 pc.
S	LUTC 80.080	80	80	—	799800	206,97	1 pc.
S	LUTC 100.100	100	100	—	799855	252,37	1 pc.

40 60 80 100



Values in brackets refer to models LUTC 80.080 and LUTC 100.100

Continuous channel size B = outgoing channel size B

Used for: cable protection ducts LLK... and LUK...

The equipotential bonding of the channels is carried out via the boltless splice plate LST... (please order separately), for the covers automatically when snapping on.

Also available with powder coating in standard and special colours as well as in stainless steel.



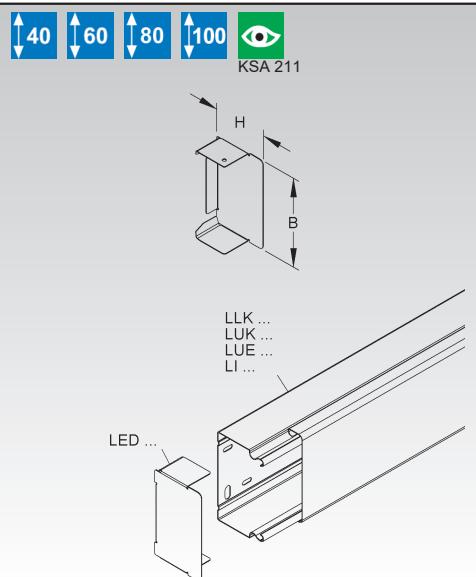
End-Cap

	Model No.	Height H mm	Width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	LED 40.040	40	40	517763	1,70	6 pcs.
S	LED 40.060	40	60	517800	2,50	6 pcs.
S	LED 60.060	60	60	517909	3,88	6 pcs.
S	LED 60.100	60	100	518005	5,62	6 pcs.
S	LED 60.150	60	150	518104	7,81	6 pcs.
S	LED 60.200	60	200	518203	9,99	6 pcs.
S	LED 60.300 S	60	300	075287	19,40	1 pc.
S	LED 80.080	80	80	792504	6,32	6 pcs.
S	LED 100.100	100	100	792559	9,40	6 pcs.

Used for: cable protection ducts LLK...., LUK.... and industrial ducts LUE 60..., LI 60....

The equipotential bonding takes place automatically during insertion.

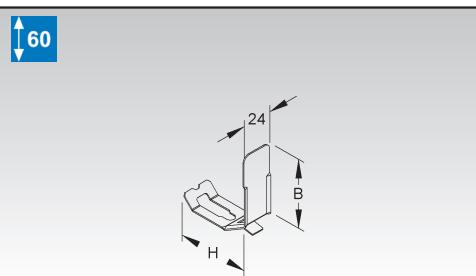
Also available with powder coating in standard and special colours as well as in stainless steel.



Cable Retainer Clamp

	Model No.	Height H mm	Width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
E2	LHS 60.100 E2	60	55	517206	2,03	20 pcs.
E2	LHS 60.150 E2	60	105	517305	2,99	20 pcs.
E2	LHS 60.200 E2	60	155	517404	3,95	20 pcs.

Used for: cable protection ducts LLK...., LUK.... and industrial ducts LUE 60... and LI 60....



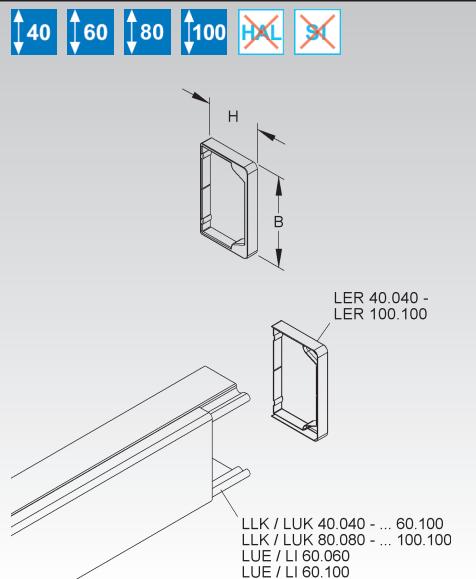
End-Protection Ring

	Model No.	Height H mm	Width B mm	RAL colour	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
K04	LER 40.040	40	40	7021	865109	0,33	10 pcs.
K04	LER 40.060	40	60	7021	865154	0,40	10 pcs.
K04	LER 60.060	60	60	7021	865208	0,49	10 pcs.
K04	LER 60.100	60	100	7021	865253	0,65	10 pcs.
K04	LER 80.080	80	80	7021	887705	1,23	10 pcs.
K04	LER 100.100	100	100	7021	887750	1,54	10 pcs.

The end-protection ring must be arranged in personal danger areas!

Used for: cable protection ducts LLK...., LUK.... and industrial ducts LUE 60..., LI 60....

LER... can be attached to the channel cable tray after installation.



CABLE PROTECTION DUCT SYSTEM

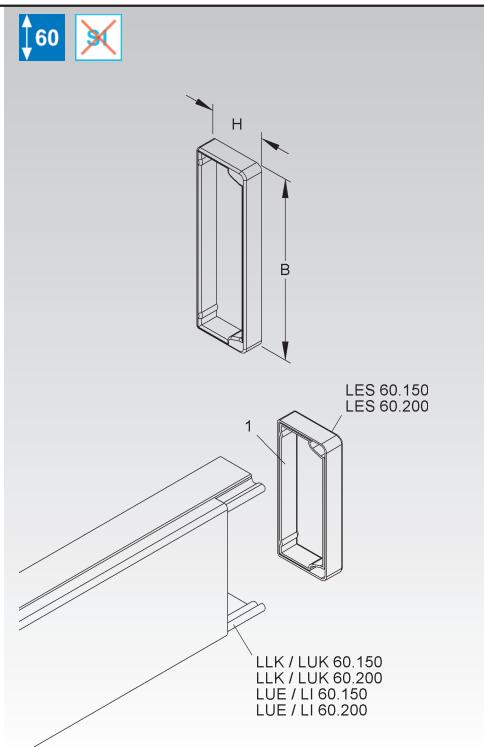
End-Protection Ring

Model No.	Height H mm	Width B mm	Colour	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
K10 LES 60.150	60	150	black	518258	4,71	10 pcs.
K10 LES 60.200	60	200	black	518265	5,85	10 pcs.

The end-protection ring must be arranged in personal danger areas!

Used for: cable protection ducts LLK...., LUK.... and industrial ducts LUE 60...., LI 60....

1. Due to the separate design also suitable for retrofitting, cut the end protection ring and lay it around the cables.



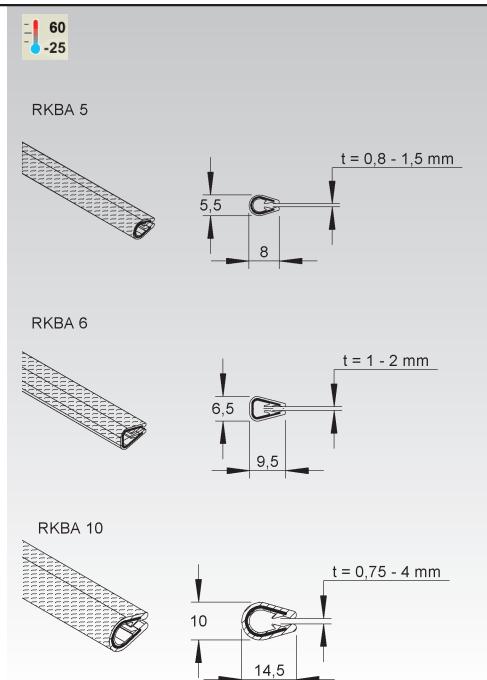
Edge Protection Strip

with steel clamping strip

Model No.	Colour	Section mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
K10 RKBA 5	black	0,8-1,5	077991	4,7	10 m
K10 RKBA 6	black	1-2	934805	7,7	10 m
K10 RKBA 10	black	0,75-4	206100	15,0	10 m

for protecting cut edges for plate thicknesses from 0,75 mm to 4,0 mm

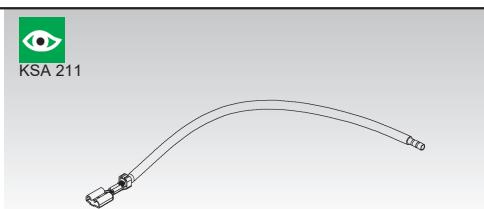
The edge protection strip must be arranged in personal danger areas!



Equipotential Bonding Wire

cross sectional area 2,5 mm², with 1 blade receptacle 6,3 mm acc. to DIN 46247-3 and 1 wire end sleeve

Model No.	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
CU GSL 150	150	461608	1,23	1 pc.



Equipotential Bonding Wire

cross sectional area 2,5 mm², with 2 blade receptacle 6,3 mm acc. to DIN 46247-3

Model No.	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
CU GSLH 200	200	461707	1,74	1 pc.
CU GSLH 350	350	461745	2,99	1 pc.



KSA 211

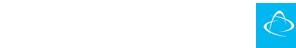
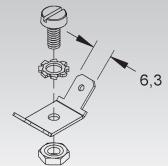


Flat Plug 6,3 mm

with cylinder head screw M4 acc. to DIN EN ISO 1207, lock washer and hexagon nut acc. to DIN EN ISO 4035

Model No.	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
MS GSLS 63	461301	0,4	10 pcs.

to ensure equipotential bonding



KSA 149

INDUSTRIAL DUCT SYSTEM

System overview of the industrial ducts

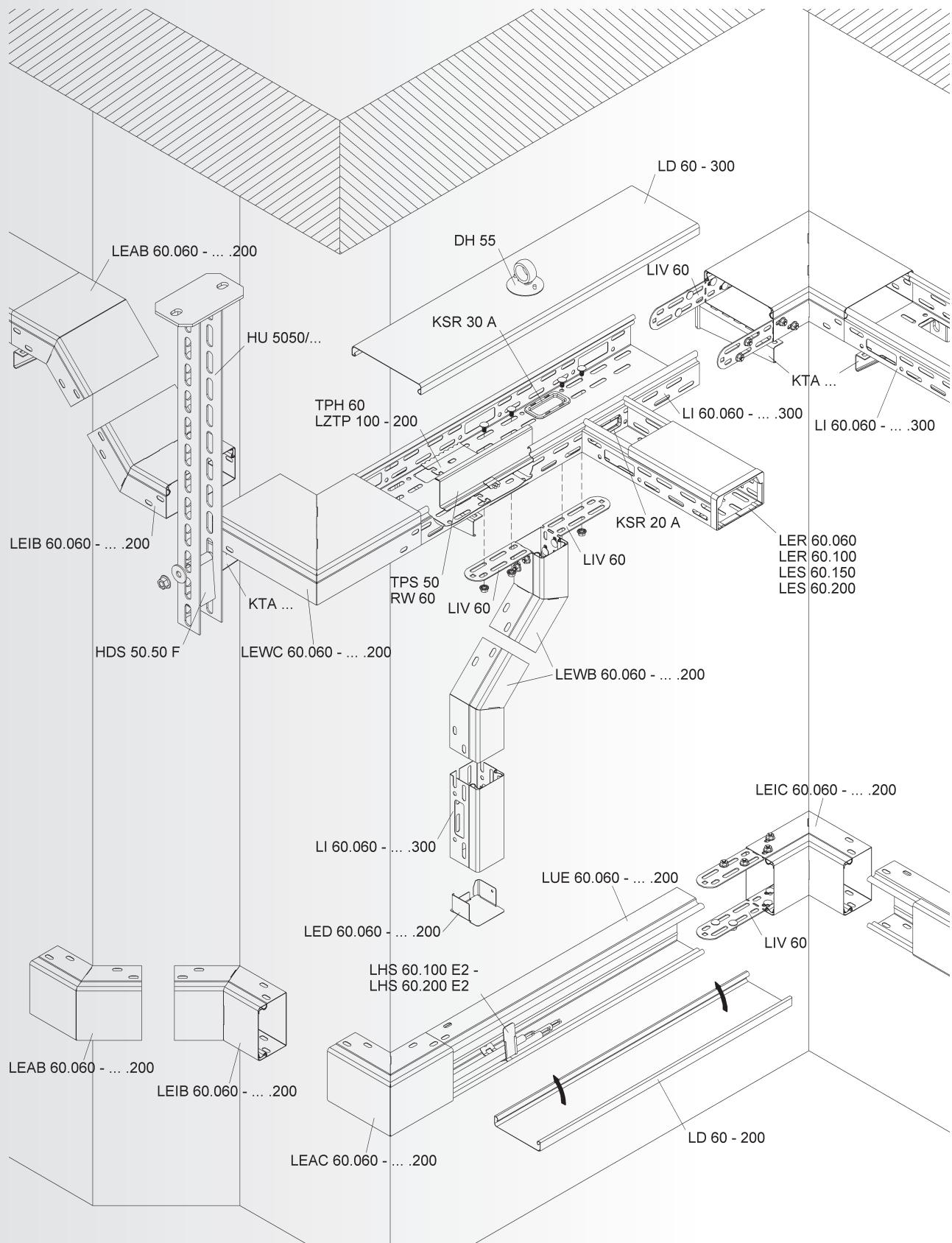
60

SYSTEM	Industrial Duct, non-perforated	LUE...	Page 152
	Industrial Duct, perforated	LI...	Page 152
ACCESSORIES	Cover	LD...	Page 152
	Universal Splice Plate	LIV 60	Page 153
	Edge Protection Ring	KSR...	Page 153
	Lifter for Covers	DH 55	Page 153
	Barrier Strip	TPS 50	Page 153
	Barrier Strip	RW 60	Page 154
	Mounting Plate for Barrier Strip	TPH 60	Page 154
	Mounting Plate for Barrier Strip with strain relief	LZTP...	Page 154
	Outside Elbow 45°	LEAB...	Page 154
	Inside Elbow 45°	LEIB...	Page 155
	Elbow 45° with Cover	LEWB...	Page 155
	Outside Elbow 90°	LEAC...	Page 155
	Inside Elbow 90°	LEIC...	Page 155
	Elbow 90° with Cover	LEWC...	Page 155
	End-Cap	LED...	Page 156
	Cable Retainer Clamp	LHS...	Page 156
	End-Protection Ring	LER...	Page 156
	End-Protection Ring	LES...	Page 157
	Edge Protection Strip	RKBA...	Page 157
	Equipotential Bonding Wire	GSL...	Page 157
	Equipotential Bonding Wire	GSLH...	Page 158
	Flat Plug 6,3 mm	GSLS 63	Page 158

All fittings incl. cover.

Please order the covers for the ducts separately.





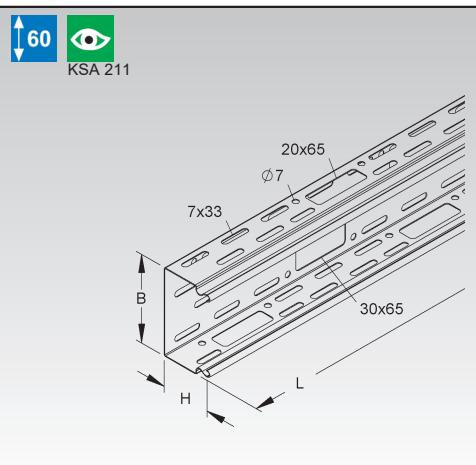
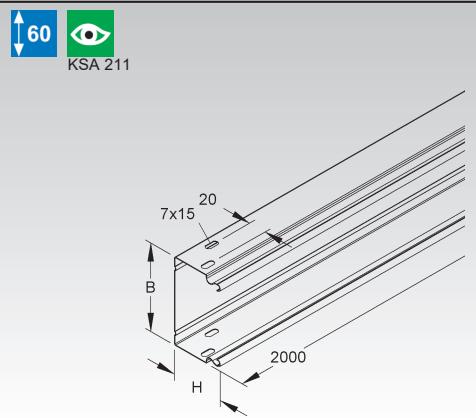
INDUSTRIAL DUCT SYSTEM

Industrial Duct

non-perforated, but with screw connector perforation, cover not included

	Model No.	Height H mm	Width B mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S	LUE 60.060	60	60	532728	120,54	2 m
S	LUE 60.100	60	100	532742	145,02	2 m
S	LUE 60.150	60	150	532766	208,78	2 m
S	LUE 60.200	60	200	532780	244,11	2 m

The equipotential bonding is carried out via the universal splice plate LIV 60 (please order separately).



Industrial Duct

perforated, cover not included

	Model No.	Height H mm	Width B mm	Length L mm	EAN code	Weight in kg per 100 m/	Smallest packaging unit
S	LI 60.060	60	60	2000	531905	99,15	2 m
S	LI 60.100	60	100	2000	532001	136,66	2 m
S	LI 60.150	60	150	2000	532100	171,99	2 m
S	LI 60.200	60	200	2000	532209	207,31	2 m
S	LI 60.300	60	300	2000	532254	308,34	2 m

Attention: different hole patterns with different widths.

For more information, see installation instructions.

System modules are possible to mount continuously, because of the staggered arranged side beams and bottom perforation.

Floor outlets of 30 x 65 mm and side outlets of 20 x 65 mm are provided for the cable and line bushings.

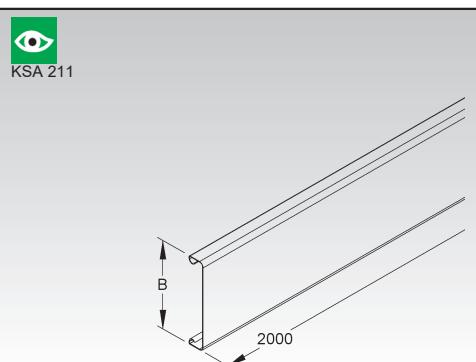
The equipotential bonding is carried out via the universal splice plate LIV 60 (please order separately).

Industrial ducts also available in 3 m.

Cover

	Model No.	Width B mm	EAN code	Weight in kg per 100 m/	Smallest packaging unit
S	LD 60	60	508501	54,62	2 m
S	LD 100	100	508600	91,16	2 m
S	LD 150	150	508808	143,92	2 m
S	LD 200	200	508907	179,25	2 m
S	LD 300	300	889808	249,90	2 m

Used for: industrial ducts LUE... and LI...



Universal Splice Plate

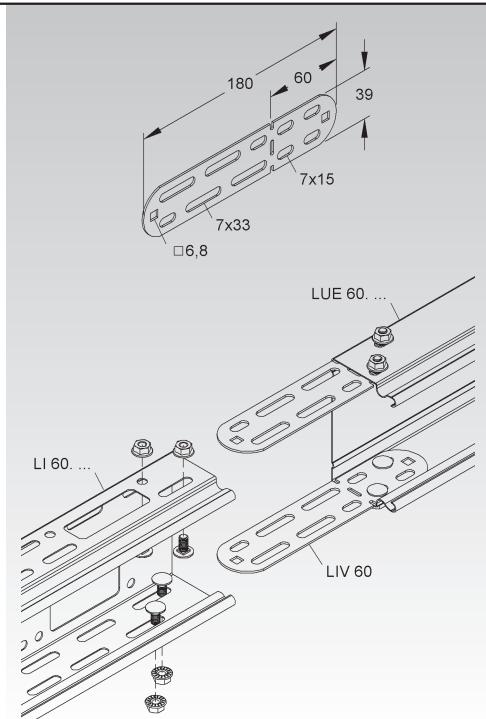
formable screw connector, asymmetrical

Model No.	Incl. accessories	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S LIV 60	4 FLM 6X12	532704	9,35	20 pcs.

connects the trunking bases electrically and mechanically in one operation

Requirement: 2 pieces per joint

Used for: industrial ducts LUE... and LI...



Edge Protection Ring

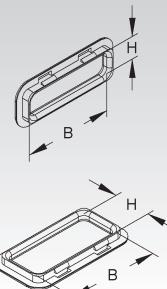
UV resistant

Model No.	Colour	Inside height H mm	Inside dimensions width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
K04 KSR 20 A	black	14,5	58	946761	0,32	20 pcs.
K04 KSR 30 A	black	24,0	58	946778	0,38	20 pcs.

to protect cables at the knockouts after using the sheet metal punch W-BL...

The edge protection ring must be arranged in personal danger areas!

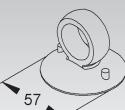
Used for: cable trays RLCI 60... and industrial ducts LI 60...



Lifter for Covers

Model No.	Colour similar RAL	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
DH 55	9005	417483	1,5	1 pc.

for quick disassembly of smooth covers from 60 mm width



Barrier Strip

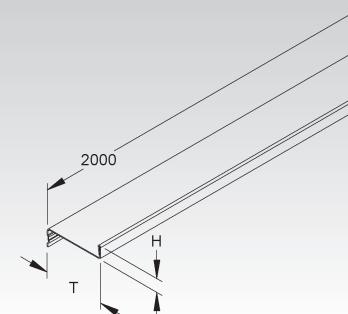
Model No.	Height H mm	Depth T mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
S TPS 50	11	50	459247	48,31	10 x 2 m

for the separation of wires and cables with different functions and/or voltages

Used for: cable protection ducts LLK..., LUK... and industrial ducts LUE..., LI...

The equipotential bonding takes place automatically when clipping in.

Also available in stainless steel.



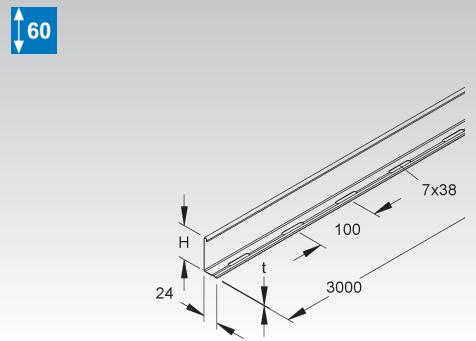
INDUSTRIAL DUCT SYSTEM

Barrier Strip

Model No.	Height H mm	Material thickness (t) mm	Incl. accessories	EAN code	Weight in kg per 100 m	Smallest packaging unit
S RW 60	55	0,75	4 FLM 6X12	225002	49,86	10 x 3 m

for the separation of wires and cables with different functions and/or voltages

The continuous perforation allows a stepless mounting.



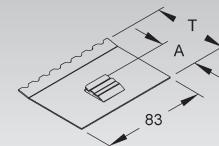
Mounting Plate for Barrier Strip

Model No.	Depth T mm	Distance A mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S TPH 60	59	30	806003	3,44	20 pcs.

Used for: cable protection ducts LLK..., LUK... and industrial ducts LUE..., LI... can be used in the ground

The equipotential bonding takes place automatically when the unit is inserted.

Also available in stainless steel.



Mounting Plate for Barrier Strip

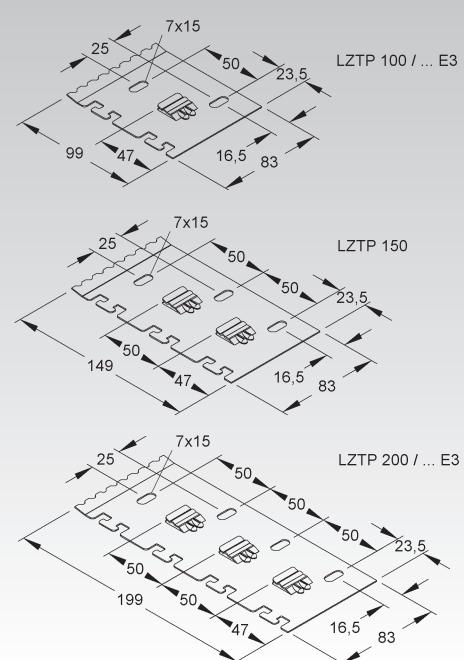
with strain relief

Model No.	Depth T mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S LZTP 100	99	833009	5,48	20 pcs.
S LZTP 150	149	833054	8,29	20 pcs.
S LZTP 200	199	833108	11,10	20 pcs.

Used for: cable protection ducts LLK..., LUK... and industrial ducts LUE..., LI... can be used in the ground

The equipotential bonding takes place automatically when the unit is inserted.

Also available in stainless steel.



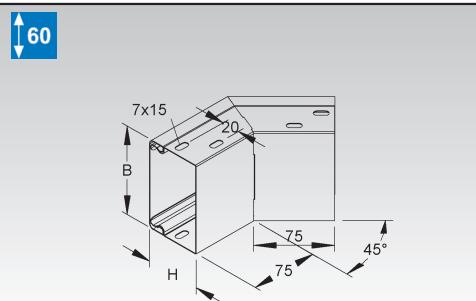
Outside Elbow 45°

with screw connector perforation, incl. cover

Model No.	Height H mm	Width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S LEAB 60.060	60	60	534807	35,16	8 pcs.
S LEAB 60.100	60	100	534906	45,17	8 pcs.
S LEAB 60.150	60	150	535002	63,30	4 pcs.
S LEAB 60.200	60	200	535101	76,28	4 pcs.

Used for: industrial ducts LUE... and LI...

The equipotential bonding is carried out via the universal splice plate LIV 60 (please order separately).



Inside Elbow 45°

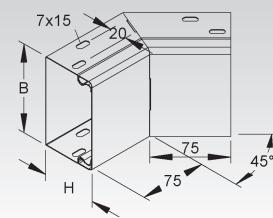
with screw connector perforation, incl. cover

Model No.	Height H mm	Width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S LEIB 60.060	60	60	534401	32,45	8 pcs.
S LEIB 60.100	60	100	534500	40,74	8 pcs.
S LEIB 60.150	60	150	534609	61,31	4 pcs.
S LEIB 60.200	60	200	534708	73,92	8 pcs.

Used for: industrial ducts LUE... and LI...

The equipotential bonding is carried out via the universal splice plate LIV 60 (please order separately).

60



Elbow 45° with Cover

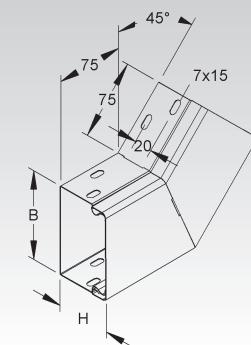
with screw connector perforation, incl. cover

Model No.	Height H mm	Width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S LEWB 60.060	60	60	534005	33,53	8 pcs.
S LEWB 60.100	60	100	534104	45,76	4 pcs.
S LEWB 60.150	60	150	534203	76,13	4 pcs.
S LEWB 60.200	60	200	534302	100,78	4 pcs.

Used for: industrial ducts LUE... and LI...

The equipotential bonding is carried out via the universal splice plate LIV 60 (please order separately).

60



Outside Elbow 90°

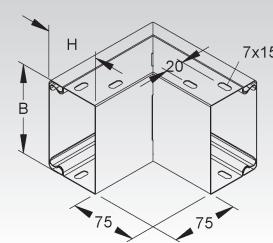
with screw connector perforation, incl. cover

Model No.	Height H mm	Width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S LEAC 60.060	60	60	533602	42,54	8 pcs.
S LEAC 60.100	60	100	533701	54,18	8 pcs.
S LEAC 60.150	60	150	533800	77,01	4 pcs.
S LEAC 60.200	60	200	533909	96,23	8 pcs.

Used for: industrial ducts LUE... and LI...

The equipotential bonding is carried out via the universal splice plate LIV 60 (please order separately).

60



Inside Elbow 90°

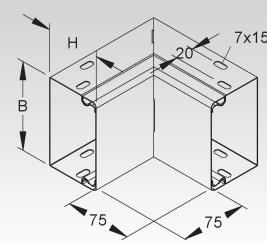
with screw connector perforation, incl. cover

Model No.	Height H mm	Width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S LEIC 60.060	60	60	533206	38,16	8 pcs.
S LEIC 60.100	60	100	533305	48,14	8 pcs.
S LEIC 60.150	60	150	533404	73,32	4 pcs.
S LEIC 60.200	60	200	533503	88,74	4 pcs.

Used for: industrial ducts LUE... and LI...

The equipotential bonding is carried out via the universal splice plate LIV 60 (please order separately).

60



Elbow 90° with Cover

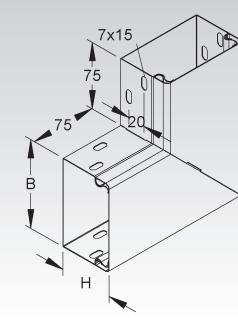
with screw connector perforation, incl. cover

Model No.	Height H mm	Width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S LEWC 60.060	60	60	532803	40,07	8 pcs.
S LEWC 60.100	60	100	532902	59,31	8 pcs.
S LEWC 60.150	60	150	533008	107,67	4 pcs.
S LEWC 60.200	60	200	533107	151,09	4 pcs.

Used for: industrial ducts LUE... and LI...

The equipotential bonding is carried out via the universal splice plate LIV 60 (please order separately).

60



INDUSTRIAL DUCT SYSTEM

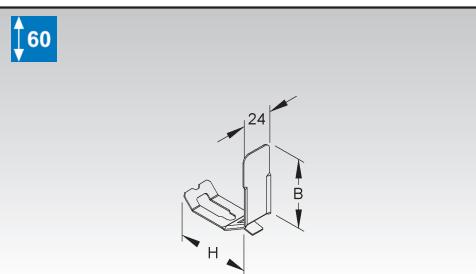
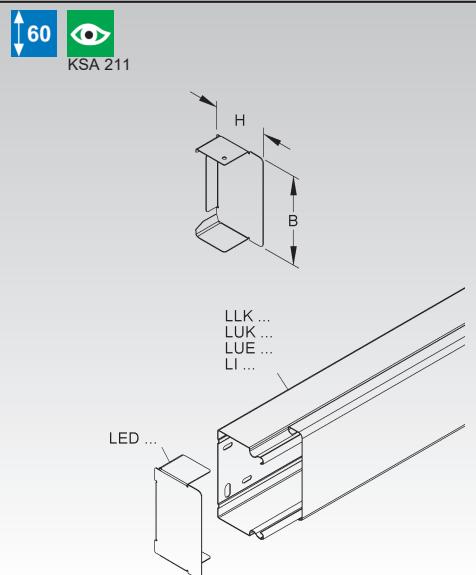
End-Cap

	Model No.	Height H mm	Width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
S	LED 60.060	60	60	517909	3,88	6 pcs.
S	LED 60.100	60	100	518005	5,62	6 pcs.
S	LED 60.150	60	150	518104	7,81	6 pcs.
S	LED 60.200	60	200	518203	9,99	6 pcs.

Used for: cable protection ducts LLK..., LUK... and industrial ducts LUE 60..., LI 60....

The equipotential bonding takes place automatically during insertion.

Also available with powder coating in standard and special colours as well as in stainless steel.



Cable Retainer Clamp

	Model No.	Height H mm	Width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
E2	LHS 60.100 E2	60	55	517206	2,03	20 pcs.
E2	LHS 60.150 E2	60	105	517305	2,99	20 pcs.
E2	LHS 60.200 E2	60	155	517404	3,95	20 pcs.

Used for: cable protection ducts LLK..., LUK... and industrial ducts LUE 60... and LI 60....

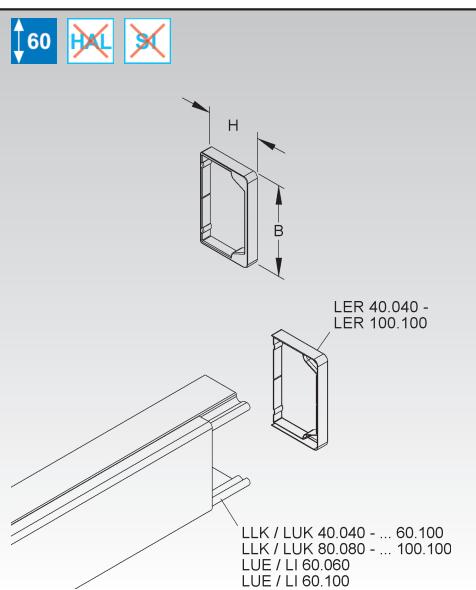
End-Protection Ring

	Model No.	Height H mm	Width B mm	RAL colour	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
K04	LER 60.060	60	60	7021	865208	0,49	10 pcs.
K04	LER 60.100	60	100	7021	865253	0,65	10 pcs.

The end-protection ring must be arranged in personal danger areas!

Used for: cable protection ducts LLK..., LUK... and industrial ducts LUE 60..., LI 60....

LER... can be attached to the channel cable tray after installation.



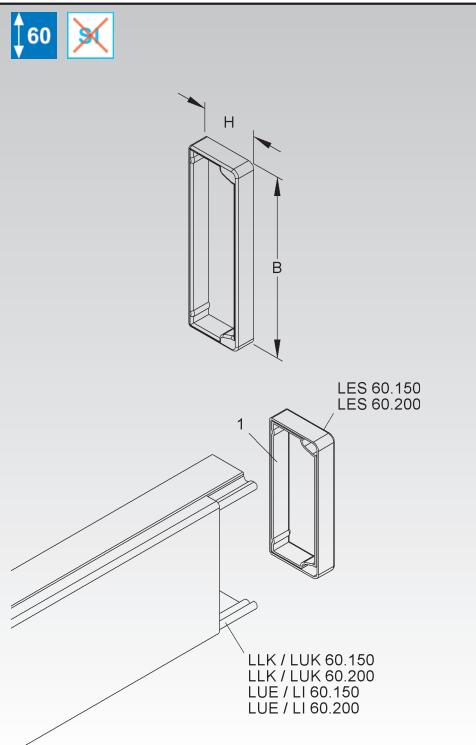
End-Protection Ring

Model No.	Height H mm	Width B mm	Colour	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
K10 LES 60.150	60	150	black	518258	4,71	10 pcs.
K10 LES 60.200	60	200	black	518265	5,85	10 pcs.

The end-protection ring must be arranged in personal danger areas!

Used for: cable protection ducts LLK...., LUK.... and industrial ducts LUE 60...., LI 60....

1. Due to the separate design also suitable for retrofitting, cut the end protection ring and lay it around the cables.



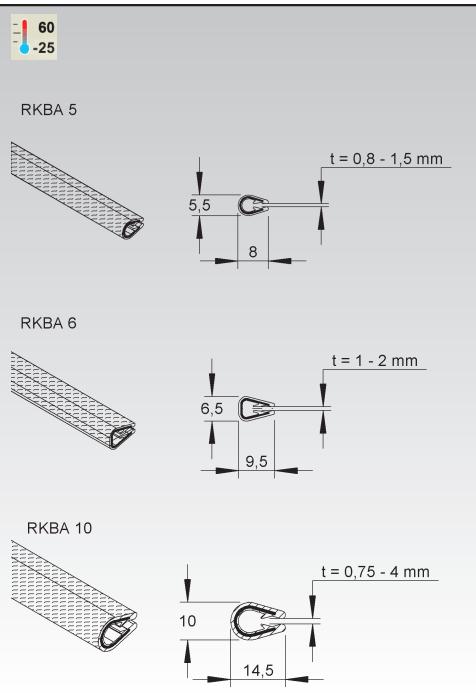
Edge Protection Strip

with steel clamping strip

Model No.	Colour	Section mm	EAN code	Weight in kg per 100 m	Smallest packaging unit
K10 RKBA 5	black	0,8-1,5	077991	4,7	10 m
K10 RKBA 6	black	1-2	934805	7,7	10 m
K10 RKBA 10	black	0,75-4	206100	15,0	10 m

for protecting cut edges for plate thicknesses from 0,75 mm to 4,0 mm

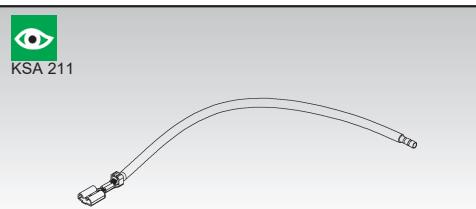
The edge protection strip must be arranged in personal danger areas!



Equipotential Bonding Wire

cross sectional area 2,5 mm², with 1 blade receptacle 6,3 mm acc. to DIN 46247-3 and 1 wire end sleeve

Model No.	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
CU GSL 150	150	461608	1,23	1 pc.



INDUSTRIAL DUCT SYSTEM

Equipotential Bonding Wire

cross sectional area 2,5 mm², with 2 blade receptacle 6,3 mm acc. to DIN 46247-3

Model No.	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
CU GSLH 200	200	461707	1,74	1 pc.
CU GSLH 350	350	461745	2,99	1 pc.



KSA 211

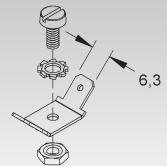


Flat Plug 6,3 mm

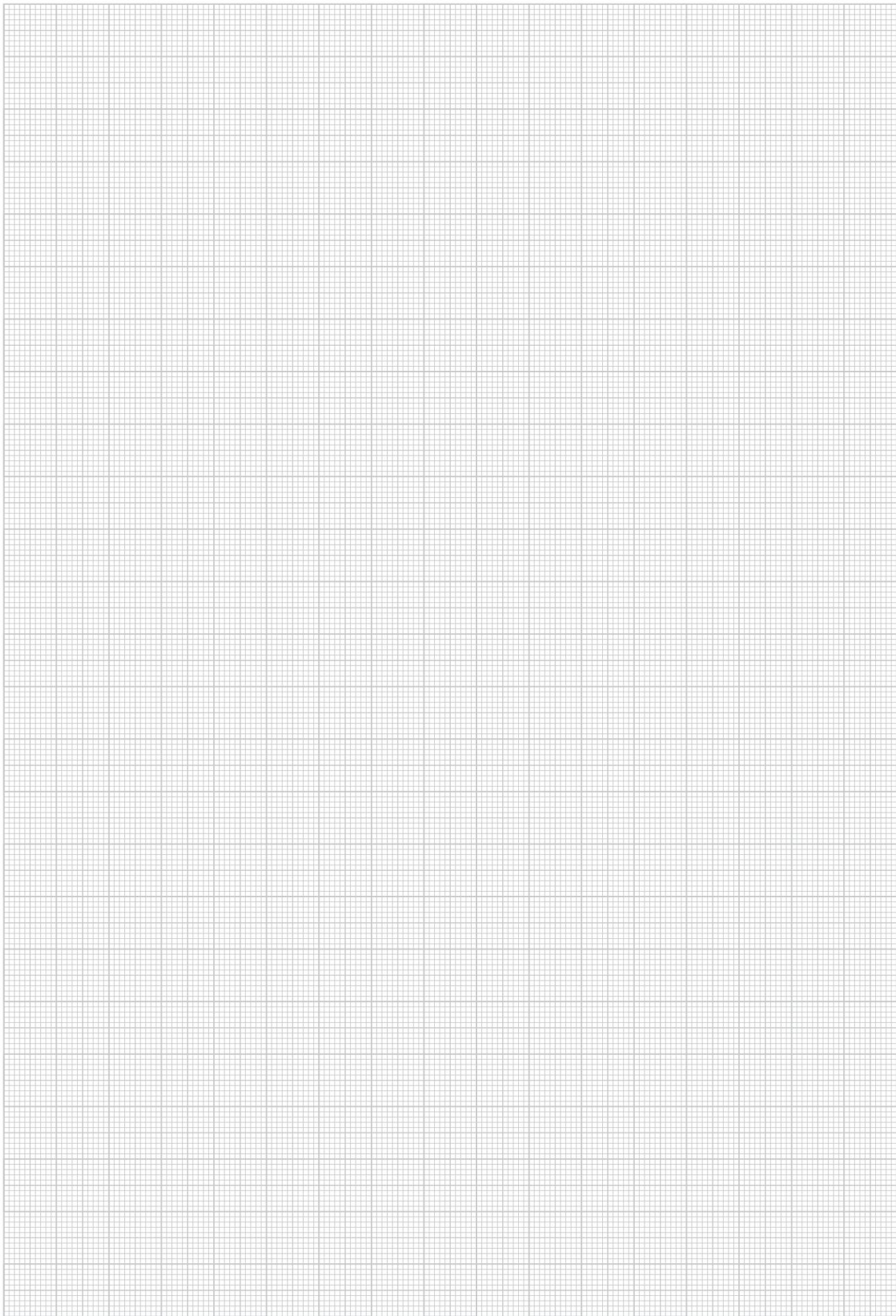
with cylinder head screw M4 acc. to DIN EN ISO 1207, lock washer and hexagon nut acc. to DIN EN ISO 4035

Model No.	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
MS GSLS 63	461301	0,4	10 pcs.

to ensure equipotential bonding



NOTES

A large rectangular area filled with a uniform grid of small squares, intended for handwritten notes or drawings.

System overview dowels

Screw Anchor	NSA...	Page 161
Nail Anchor	NA...	Page 161
Ceiling Nail	NDN 6/35	Page 162
Structural Anchor	DAM...	Page 162
Structural Anchor	DAZ...	Page 162



Screw Anchor

with countersunk head and Torx drive T20

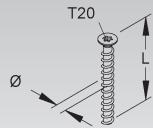
Model No.	Dia- meter mm	Length L mm	Actuator size	Nominal drilling-Ø mm	Max. thickn. of structural component t fix mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V NSA 5X40/SK-T20 V	5	40	T20	4	5	153886	0,41	200 pcs.

for use in dry interiors, for cracked and non-cracked concrete

Used for: among others for screw distance clamps SAS... as well as pipe and cable distance clamps 85...G

It is recommended to set the screw anchor with a tangential impact wrench or by hand.

Recommended screw tightening torque 8 Nm



Screw Anchor

Approval no.: ETA 15/0784, with flat round head and Torx drive T30

Model No.	Dia- meter mm	Length L mm	Actuator size	Nominal drilling-Ø mm	Max. thickn. of structural component t fix mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V NSA 6X35/FKK-T30 V	6	35	T30	5	1	153893	0,91	100 pcs.
V NSA 6X50/FKK-T30 V	6	50	T30	5	5/15	153374	1,02	100 pcs.

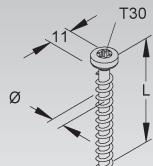
for use in dry interiors, for cracked and non-cracked concrete

Further details can be found in the above-mentioned ETA approval.

Used for: among others for cable clip SHS...

It is recommended to set the screw anchor with a tangential impact wrench or by hand.

Recommended screw tightening torque 10 Nm



Screw Anchor

Approval no.: ETA 15/0784, with large flat round head and Torx drive T30

Model No.	Dia- meter mm	Length L mm	Actuator size	Nominal drilling-Ø mm	Max. thickn. of structural component t fix mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V NSA 7.5X40/FKG-T30 V	7,5	40	T30	6	5	153923	1,38	100 pcs.
V NSA 7.5X50/FKG-T30 V	7,5	50	T30	6	15	153930	1,62	100 pcs.

for use in dry interiors, for cracked and non-cracked concrete

Further details can be found in the above-mentioned ETA approval.

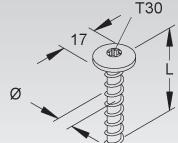
Used for: among others for C-profiles from slot width 18 mm

It is recommended to set the screw anchor with a tangential impact wrench or by hand.

Recommended screw tightening torque 20 Nm



KSA 197



Screw Anchor

Approval no.: ETA 15/0784, with hexagonal head and metric connection thread M6

Model No.	Dia- meter mm	Metric connection thread M	Length L mm	Nominal drilling-Ø mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V NSA 6X55/SW10-M6 V	6	6	55	5	153916	1,12	100 pcs.

for use in dry interiors, for cracked and non-cracked concrete

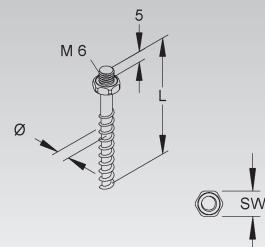
Further details can be found in the above-mentioned ETA approval.

Used for: among others for screw distance clamps SAS... as well as pipe and cable distance clamps 85...G

It is recommended to set the screw anchor with a tangential impact wrench or by hand.

Recommended screw tightening torque 10 Nm

Width across flats 10



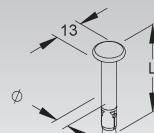
Nail Anchor

Approval no.: ETA-18/0541

Model No.	Length L mm	Nominal drilling-Ø mm	Clamping area t fix mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V NA 6X5	42	6	≤ 5	158171	1,07	100 pcs.
V NA 6X30	65	6	≤ 30	117673	1,60	100 pcs.

Please also note:

DoP No. NI 001



KSA 161

DOWEL

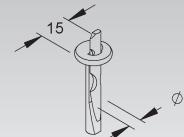
Ceiling Nail

Approval no.: ETA-07/0144

Model No.	Nominal drilling-Ø mm	Clamping area t fix mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V NDN 6/35	6	≤ 5	158188	1	100 pcs.

for use in dry interiors, for cracked and non-cracked concrete

The anchor may only be used for multiple fixing of non-load-bearing systems according to ETAG 001, Part 6, e.g. for anchoring suspended ceilings, wall coverings, pipelines, ventilation ducts, etc.
The ceiling nail must be placed in hammer-drilled holes.



Structural Anchor

Approval no.: ETA-18/0541, with nut and screw

Model No.	Metric connection thread M	Length L mm	Nominal drilling-Ø mm	Clamping area t fix mm	Effective anchoring depth h ef mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V DAM 6X5	6	50	6	≤ 5	30	158126	1,38	100 pcs.
V DAM 6X10	6	55	6	≤ 10	30	117666	1,30	100 pcs.

Further details can be found in the above-mentioned ETA approval.

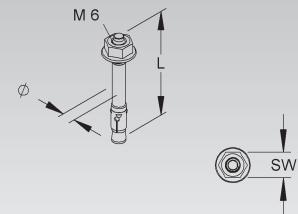
When installing the push-through anchor, the effective anchorage depth must be maintained.
Compliance with the permissible thickness of the fixture (clamping range) is ensured.

Please also note:

DoP No. NI 001

Recommended torque 4 Nm

Width across flats 10



Structural Anchor

Approval no.: ETA-18/0542, with nut and large washer

Model No.	Metric connection thread M	Length L mm	Nominal drilling-Ø mm	Washer diameter mm	Clamping area t fix mm	Effective anchoring depth h ef mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
V DAZ 8X10	8	75	8	24	≤ 10	45	842803	3,16	50 pcs.
V DAZ 10X10	10	95	10	25	≤ 10	60	842827	6,33	50 pcs.
V DAZ 12X10	12	110	12	30	≤ 10	70	842865	10,27	20 pcs.

for use in dry interiors, for cracked and non-cracked concrete

Further details can be found in the above-mentioned ETA approval.

For outdoor use we recommend dowels made of stainless steel.

Please also note:

DoP No. NI 002

Recommended torques:

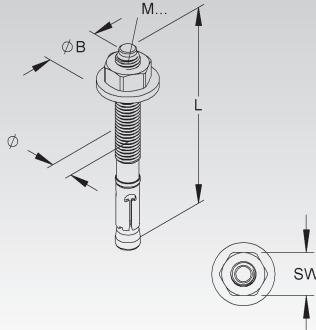
DAZ 8X10 - Torque 20 Nm, width across flats 13

DAZ 10X10 - Torque 45 Nm, width across flats 17/16

DAZ 12X10 - Torque 60 Nm, width across flats 19

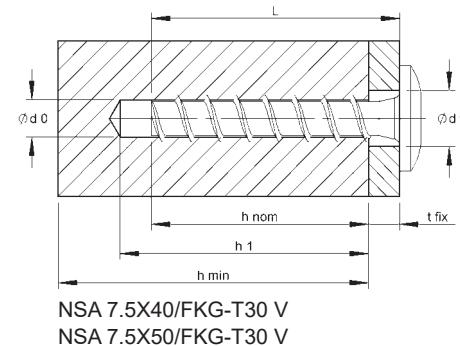
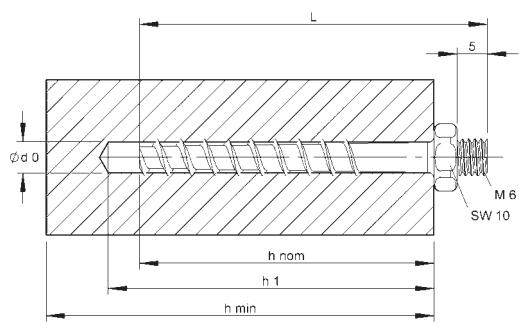
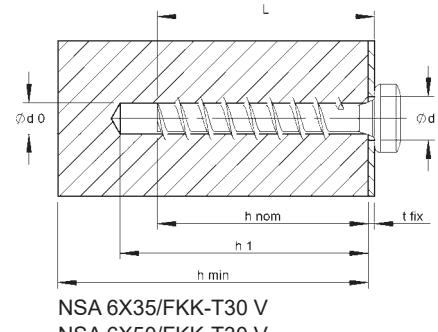
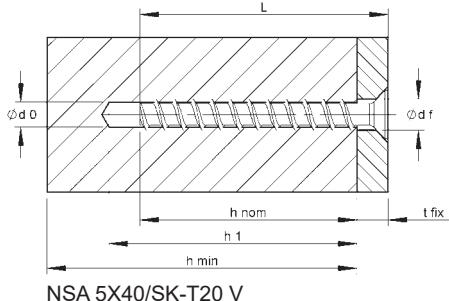


KSA 197



Technical Information

Screw Anchor NSA



Maximum permissible loads¹⁾ of a single anchor for fixings in standard concrete C 20/25²⁾.

The entire approval notice ETA-15/0784 must be observed for the design.

gvs = galvanised according to DIN EN ISO 2081/DIN EN ISO 4042, blue passivated

Type of anchor	NSA 5X40/ SK-T20 V gvs	NSA 6X35/ FKK-T30 V gvs	NSA 6X50/ FKK-T30 V gvs	NSA 6X55/ SW10-M6 V gvs	NSA 7.5X40/ FKG-T30 V gvs	NSA 7.5X50/ FKG-T30 V gvs
Screw-in depth $h_{\text{nom}} \geq$	[mm]	35	35	45/35	45	35
Permissible centric tensile load of a single anchor without boundary influence N_{zul} ³⁾						
Cracked concrete C20/25 ²⁾	[kN]	1,8	0,5	0,7/0,5	0,7	1,0
Non-cracked concrete C20/25 ²⁾	[kN]	2,6	2,0	3,0/2,0	3,0	2,0
Permissible shear force of a single anchor without boundary influence V_{zul} ³⁾						
Cracked concrete C20/25 ²⁾	[kN]	2,0	2,3	2,4 ⁶⁾	2,4 ⁶⁾	2,4
Non-cracked concrete C20/25 ²⁾	[kN]	2,0	2,4 ⁶⁾	2,4 ⁶⁾	2,4 ⁶⁾	3,4
Permissible bending moment (M_a) M_{zul}	[Nm]	-	4,0	4,0	4,0	8,4
Component dimensions and assembly parameters ⁴⁾						
Standard component thickness ($\geq 2 \times h_{\text{ef}}$) $h_{\text{min},1} =$	[mm]					
Minimum centre distance $s_{\text{min}} =$	[mm]	35	30	30	30	40
for $c \geq$	[mm]					
Minimum edge distance $c_{\text{min}} =$	[mm]	35	30	30	30	40
for $s \geq$	[mm]					
Nominal drilling diameter $d_0 =$	[mm]	4	5	5	5	6
Borehole depth (t) $h_1 \geq$	[mm]	40	40	50	50	40
Length $L =$	[mm]	40	35	50	55	40
Calculated anchorage depth $h_{\text{ef}} =$	[mm]	25	26	35	35	26
Through hole in the component to be connected $df \leq$	[mm]	6	7	7	7	9
Recommended max. power output Setting tool $T_{\text{inst}}^{(5)} =$	[Nm]	-	75	100	100	100
Recommended max. tighting torque $T_{\text{inst}} =$	[Nm]	8	-	-	-	-
Max. Thickness $t_{\text{fix}} =$	[mm]	5	1	5/15	-	5
Minimum thickness of the concrete component $h_{\text{min}} =$	[mm]	80	100	100	100	100

1) On the resistance side, the partial safety factors of the anchor resistances and the material partial safety factors of design methods A in accordance with Annex C of ETAG 001 or CEN/TS 1992-4 are taken into account. On the action side, a partial safety factor of $Y_G = 1,35$ was taken into account. For combined loads, anchor groups and axial or boundary influences, please observe the specifications for design methods A according to ETAG 001 Annex C or CEN/TS 1992-4 or our design aid.

2) The concrete is assumed to be normally reinforced or unreinforced; for higher concrete strengths, higher resistances may be possible.

3) i.e. for tensile load: edge distance $c \geq 1,5 \cdot h_{\text{ef}}$, and centre distance $s \geq 3 \cdot h_{\text{ef}}$ or for transverse force: $c \geq 10 \cdot h_{\text{ef}}$, and centre distance $s \geq 3 \cdot h_{\text{ef}}$.

4) The values in brackets only apply to non-cracked concrete.

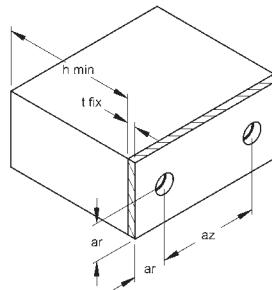
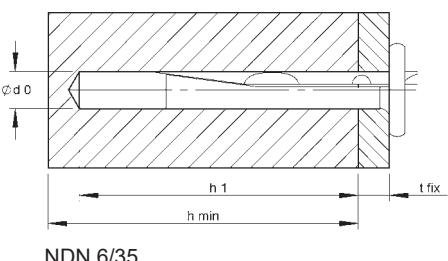
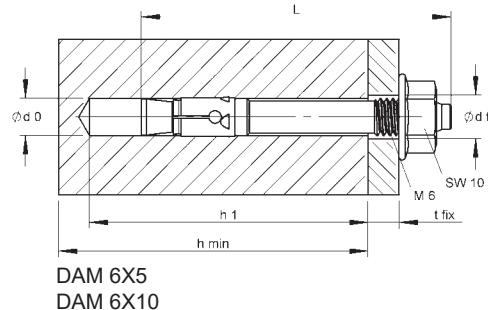
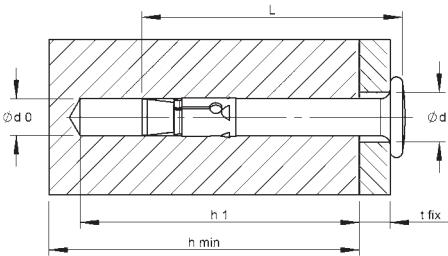
5) The tightening torque is specified in the approval notice, compliance with this specification is therefore relevant to the approval.

6) Steel failure decisive.

INFORMATION

Technical Information

Nail Anchor NA, Structural Anchor DAM and Ceiling Nail NDN



Permissible loads for centric pull, shear pull and diagonal pull at any angle and anchor characteristics and component dimensions for concrete strength class \geq B 25 or C 20/25 and \leq B 55 or C 50/60.

The entire approval notice ETA-18/0541 and ETA-07/0144 for the ceiling nail NDN must be observed for the design.
gvs = galvanised according to DIN EN ISO 2081/DIN EN ISO 4042, blue passivated.

Type of anchor		NA 6X5 ¹⁾ gvs	NA 6X30 ¹⁾ gvs	DAM 6X5 ¹⁾ gvs	DAM 6X10 ¹⁾ gvs	NDN 6/35 ²⁾ gvs
Permissible load of individual anchors	kN	2,4	2,4	2,4	2,4	2,4
Permissible bending moment M (without tensile load)	Nm	7,5	7,5	5,2	5,2	3,08
Max. Torque when mounting the attachment part with a torque wrench	Nm	/	-	4	4	/
Nominal drilling diameter d_0 =	mm	6	6	6	6	6
Blade diameter \leq	mm	6,4	6,4	6,4	6,4	6,4
Through hole in the component to be connected $d_f \leq$	mm	7,0	7,0	7,0	7,0	/
Minimum hole depth (t) $h_1 \geq$	mm	36	36	36	36	40
Minimum anchoring depth $h_v \geq$	mm	30	30	30	30	32
Centre distance between the outer dowels of adjacent dowel groups or single dowels $az \geq$	mm	200 ³⁾	200 ³⁾	200 ³⁾	200 ³⁾	200
Distance of the outer dowels to the edge of the component $ar \geq$	mm	100 ⁴⁾	100 ⁴⁾	100 ⁴⁾	100 ⁴⁾	150
Minimum thickness $h_{min} \geq$	mm	80	80	80	80	80
Total length L =	mm	42	65	50	55	/
Thickness of the attachment $t_{fix} \leq$	mm	5	30	5	10	5

1) The partial safety factors of the resistors regulated in the approval and a partial safety factor of the action $\gamma F = 1.4$ are taken into account.

2) Area of application: The anchor may be used as multiple fastening (so-called redundant systems) in accordance with ETAG 001, Part 6, e.g. for anchoring suspended ceilings, wall coverings, pipe routes, ventilation ducts, etc. can be used.

3) The centre distance can be reduced to 100 mm while simultaneously reducing the permissible load.

4) The edge distance can be reduced to 50 mm while reducing the permissible load.

For outdoor use we recommend dowels made of stainless steel.



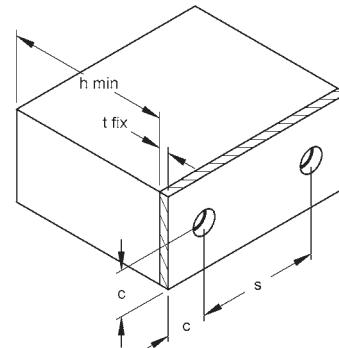
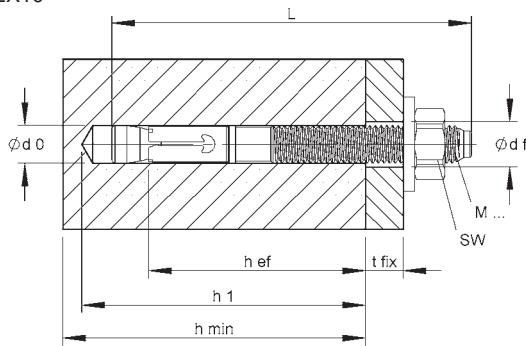
Technical Information

Structural Anchor DAZ

DAZ 8X10

DAZ 10X10

DAZ 12X10



Maximum permissible loads ¹⁾ of an anchor in normal concrete C20/25 ²⁾.
The entire approval notice ETA-18/0542 shall be observed for the design.
gvs = galvanised to DIN EN ISO 2081/DIN EN ISO 4042, blue passivated.

Type of anchor	DAZ 8X10 gvs	DAZ 10X10 gvs	DAZ 12X10 gvs
Effective anchorage depth h_{ef}	mm	45	60
Permissible centric tensile load of a single anchor without boundary influence $N_{zul}^{3)}$			
Cracked concrete C20/25 ²⁾	kN	3,8	6,2
Non-cracked concrete C20/25 ²⁾	kN	6,7	9,5
Permissible shear force of a single anchor without boundary influence $V_{zul}^{3)}$			
Cracked and non-cracked concrete C20/25 ²⁾	kN	7,8	12,2
Permissible bending moment (M_d) M_{zul}	Nm	14,8	29,7
Component dimensions and assembly parameters ⁴⁾			
Standard component thickness ($\geq 2 \times h_{ef}$) $h_{min, 1} =$	mm	100	120
Minimum centre distance $s_{min} =$	mm	35 (40)	40
for $c \geq$	mm	50	55 (60)
Minimum edge distance $c_{min} =$	mm	40	45
for $s \geq$	mm	70 (100)	80
Reduced component thickness ($< 2 \times h_{ef}$) $h_{min, 2} =$	mm	80	100
Minimum centre distance $s_{min} =$	mm	35	40
for $c \geq$	mm	70	100
Minimum edge distance $c_{min} =$	mm	40	60
for $s \geq$	mm	100	90
Nominal drilling diameter $d_0 =$	mm	8	10
Borehole depth (t) $h_1 \geq$	mm	55	75
Through hole in the component to be connected $df \leq$	mm	9	12
Torque during anchoring	Nm	20	45
Total length $L =$	mm	75	95
Minimum component thickness $t_{fix} =$	mm	10	10
Minimum thickness of the concrete component $h_{min} =$	mm	80	80
			100

1) The partial safety factors of the resistors regulated in the approval and a partial safety factor of $y_c = 1.4$ are taken into account.

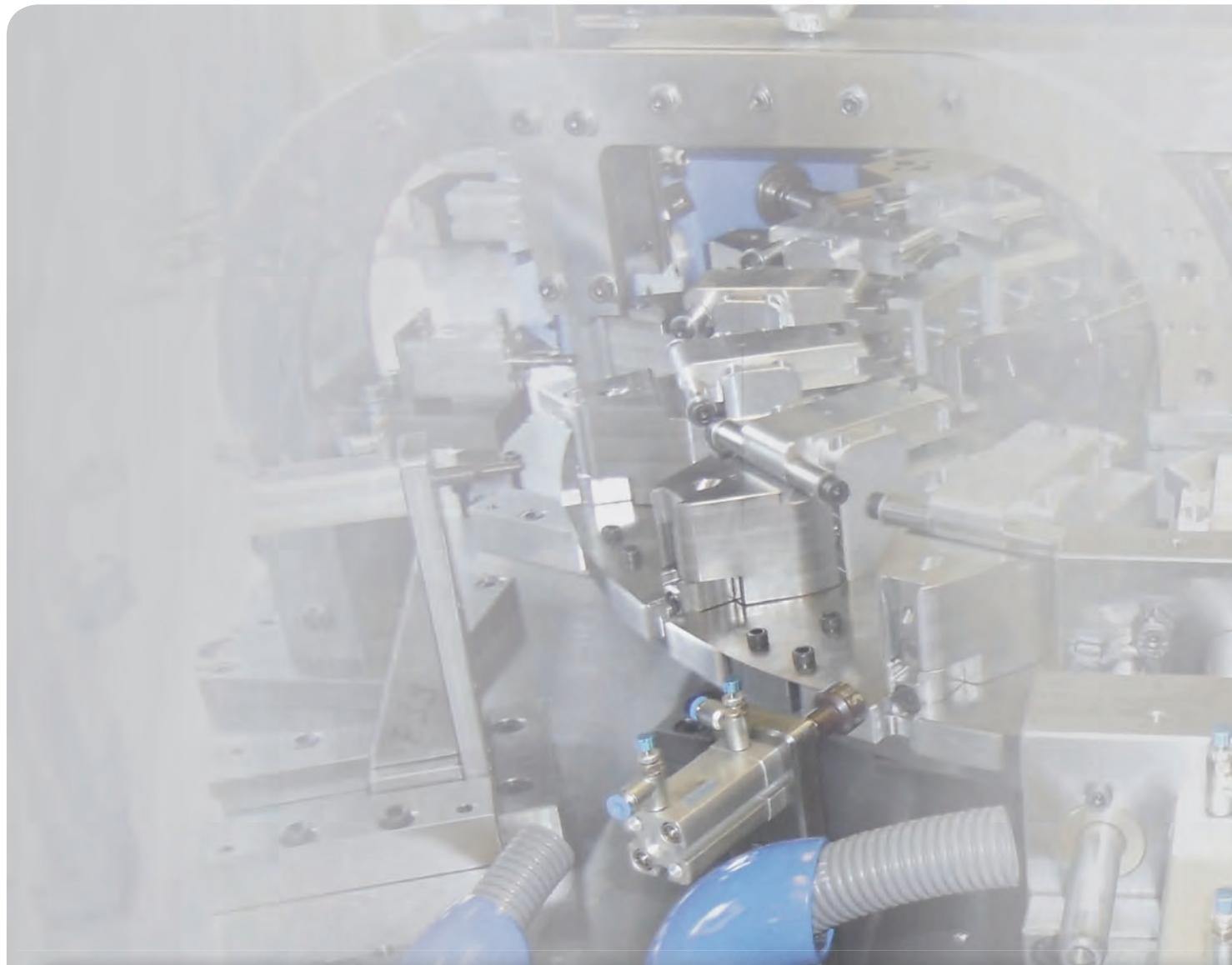
For the combination of tensile and transverse loads, for boundary influences and for anchor groups, please refer to design procedure A (ETAG Annex C).

2) The concrete is assumed to be normally reinforced or unreinforced; for higher concrete strengths up to 55 % higher values are possible.

3) I.e. for tensile load: edge distance $c > 1.5 h_{ef}$ and centre distance $s > 3 h_{ef}$ or for shear force: $c > 10 h_{ef}$ and centre distance $s > 3 h_{ef}$.

4) The values in brackets only apply to non-cracked concrete.

For outdoor use we recommend dowels made of stainless steel.



TOOLS

- Base Frames
- Shear Plates
- Hydraulic Power Unit,
hand pump
- Table Trolley
- Notching Tools
- Sheet Metal Punch
- Step Drill
- Mesh Cable Tray Cutting Tool

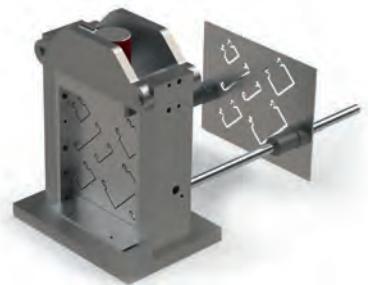




In order to facilitate the conventional processing of the channel systems by sawing and cutting, we have included various cutting systems in the range. The benefits for the customer are time savings, reduction of rejects and cost savings.

Channels and covers can be cut to length with low noise, precision and free of burrs in line with the contours. The handy notching tools also allow lateral notching in various dimensions, even on channels that have already been mounted. With the battery-operated hydraulic wire mesh gutter cutter, wire thicknesses of up to Ø 6 mm can be processed.

W-GG T..., W-SPOK T...



W-ALS 50X...



W-HHA 360-3



W-GRSWS 1.5 AH

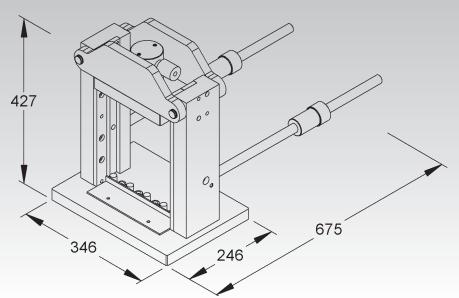


TOOLS

Base Frame, Type 1

incl. hydraulic cylinder

Model No.	Max. force at 700 bar kN	Connection thread NPT	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
★ W-GG T1-Z15	142	3/8"	185979	3590	1 pc.



Shear Plate, Type 1

incl. matching guide plate

Model No.	EAN code	Weight in kg per 100 Pair	Smallest packaging unit
W-SPOK T1-20	085415	1820	1 pair

for use, the basic frame type 1 is combined and operated with shear plate type 1 and the manual hydraulics (alternatively electric manual hydraulics)

When ordering the shear plates, the contour for cutting to length must be ordered separately.

Examples of shear plate contours:

Base for cable protection / industrial trunking

Cover for cable protection / industrial trunking

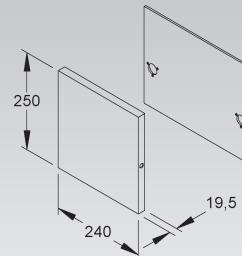
Cable ducts

C- and top-hat rails

Barrier strips

Used for: base frame, type 1

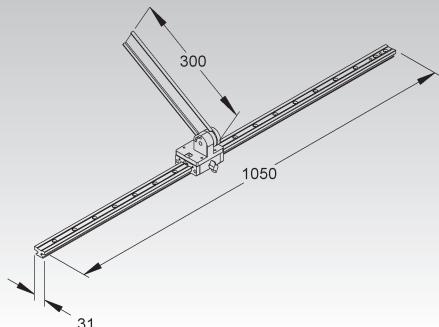
Other shear plate contours available on request.



Base Frame Stop System, Type 1

Model No.	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
★ W-GGAS T1	184293	470	1 pc.

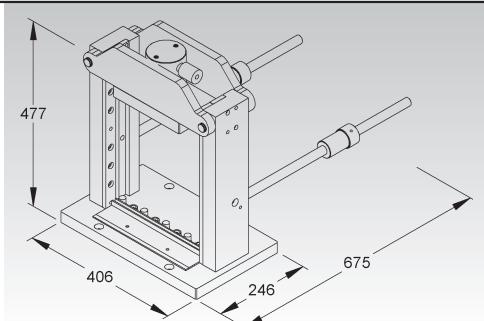
Used for: base frame, type 1



Base Frame, Type 2

incl. hydraulic cylinder

Model No.	Max. force at 700 bar kN	Connection thread NPT	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
★ W-GG T2-Z15	142	3/8"	185986	4840	1 pc.
★ W-GG T2-Z25	234	3/8"	185993	5040	1 pc.



Shear Plates, Type 2

incl. matching guide plate

Model No.	EAN code	Weight in kg per 100 Pair	Smallest packaging unit
W-SPOK T2-20	166350	2760	1 pair
W-SPOK T2-30	166367	4000	1 pair

for use, the basic frame type 2 is combined and operated with shear plate type 2 and the manual hydraulics (alternatively electric manual hydraulics)

When ordering the shear plates, the contour for cutting to length must be ordered separately.

Examples of shear plate contours:

Base for cable protection / industrial trunking
Cover for cable protection / industrial trunking

Cable ducts

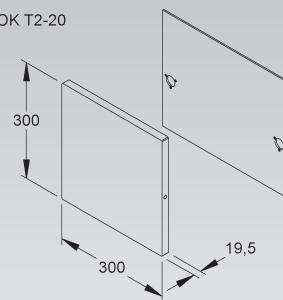
C- and top-hat rails

Barrier strips

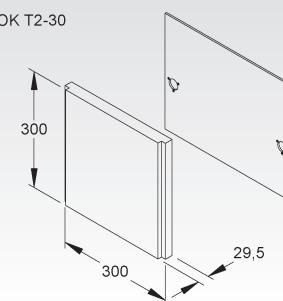
Used for: base frame, type 2

Other shear plate contours available on request.

W-SPOK T2-20



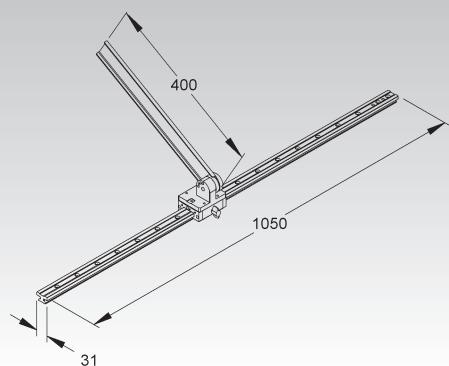
W-SPOK T2-30



Base Frame Stop System, Type 2

Model No.	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
★ W-GGAS T2	184316	480	1 pc.

Used for: base frame, type 2

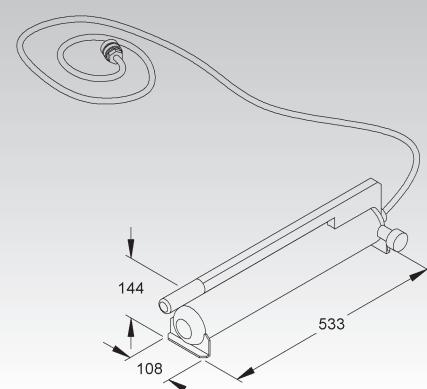


Hydraulic Pump, manual

with pressure hose and coupler plug

Model No.	Max. pressure bar	Connection thread NPT	Oil vol. (tank) cm ³	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
★ W-HPM 700	700	3/8"	902	186013	940	1 pc.

Used for: base frame type 1 or type 2



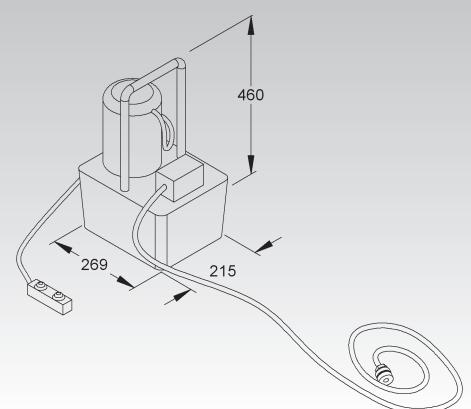
Hydraulic Power Unit, electric

with pressure hose and coupler plug

Model No.	Max. pressure bar	Connection thread NPT	Oil vol. (tank) cm ³	Power kW	Power freq. Hz	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
★ W-HPE 700	700	3/8"	279	0,37	50/60	186006	2260	1 pc.

Used for: base frame type 1 or type 2

Nominal voltage: 230 V



TOOLS

Table Trolley

movable

Model No.	RAL colour	Height H mm	Width B mm	Length L mm	Table load capacity F kN	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
★ W-TW 500-1	5007	860	609	737	5	167098	4100	1 pc.

The table trolley consists of:

- 2 steering castors with locking device
- 2 fixed castors
- 2 steel sheet platforms
- 1 handle

Used for: all body parts such as base frames incl. shear plates, hydraulic pump or hydraulic unit and collecting tray

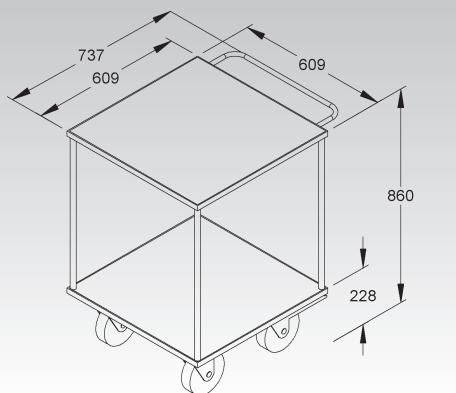


Table Trolley

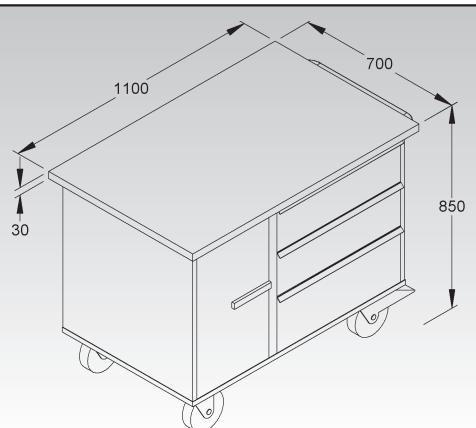
movable

Model No.	Height H mm	Width B mm	Length L mm	Table load capacity F kN	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
★ W-TW 800-3-1/1100	850	700	1100	8	186037	9800	1 pc.

The table trolley (corpus RAL 7035) consists of:

- 2 steering castors with locking device
- 2 fixed castors
- 3 roller drawers (RAL 5005)
- 1 hinged door (RAL 5005)
- 1 beech worktop (thickness: 30 mm)
- 1 handle

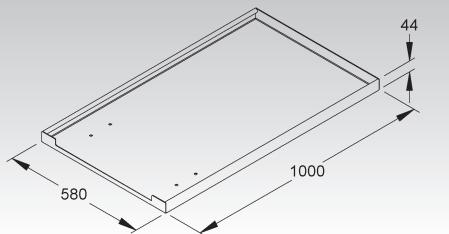
Used for: all body parts such as base frames incl. shear plates, hydraulic pump or hydraulic unit and collecting tray



Collection Tray

Model No.	Height H mm	Width B mm	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
★ E3 W-AW 44X580X1000 E3	44	580	1000	186129	1.144,93	1 pc.

Used for: table trolley



Notching Tools

with UNF 19 connection thread

Model No.	Height H mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
B W-ALS 50X35	80	163298	220	1 pc.
B W-ALS 50X55	100	154142	250	1 pc.

for notching rectangular holes (50 mm x 55 mm) into channel tray side rails

without drive unit

The edge protection strip RKBA ... must be arranged as cable protection and in personal danger areas!

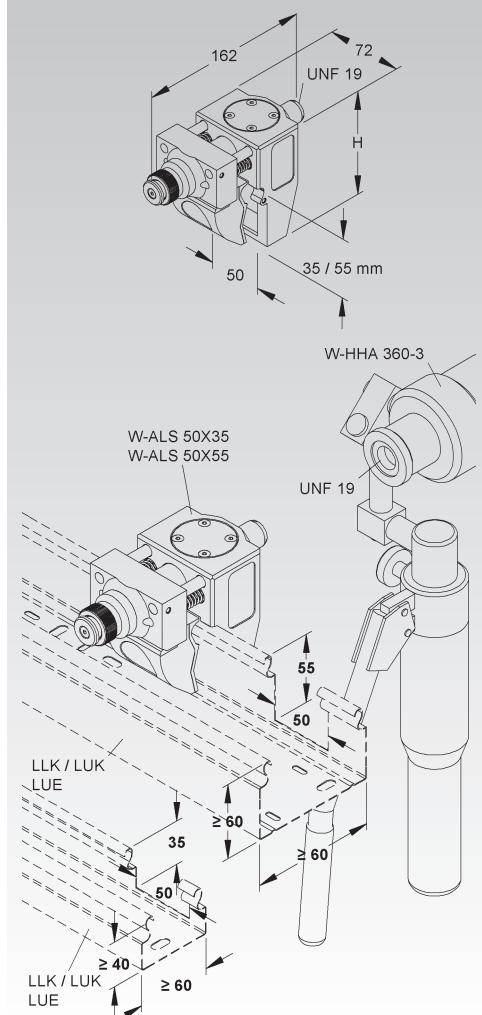
Used for: cable protection ducts LLK... and LUK... from a height of 40 mm as well as industrial ducts LUE 60... and LI 60...

Required punching force of the drive unit 65 to 85 kN

Required stroke of the drive unit: 19 to 23 mm

W-ALS 50X35 - dimensions of notch (length x height) 50x35 mm, for duct height 40 mm

W-ALS 50X55 - dimensions of notch (length x height) 50x55 mm, for duct height 60 mm



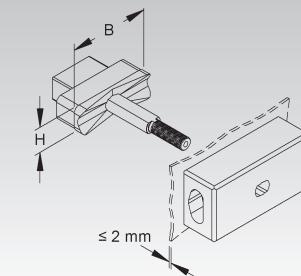
Sheet Metal Punch

with adapter 3/4" (UNF 19) external thread -1/2" internal thread

Model No.	Height H mm	Width B mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
B W-BL 20.65	20	65	872121	108	1 pc.
B W-BL 30.65	30	65	872145	108	1 pc.

for onsite installation of cable entry openings measuring 20 x 65 mm or 30 x 65 mm in cable trays up to a material thickness of 2 mm (material 1.0226)

For cable protection and in personal danger areas, the edge protection ring KSR... A must be used!

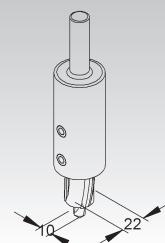


Step Drill for Covers

Model No.	Height H mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
B W-SB 10.23	170	872107	70	1 pc.

for onsite installation of turnbolt locks

Drilling of the cover and milling off the aluminium chequer plate cover is carried out in one operation.



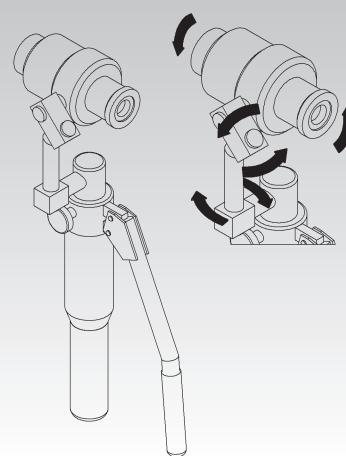
TOOLS

Hydraulic Hand Pump

manual hydraulic pump with UNF 19 (3/4") connection thread and three 360° rotatable axes, max. force 70 kN

Model No.	Height H mm	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
★ W-HHA 360-3	150	420	186440	200	1 pc.

Used for: notching tool W-ALS 50X35 and W-ALS 50X55
sheet metal punch W-BL 20.65 and W-BL 30.65, special tool



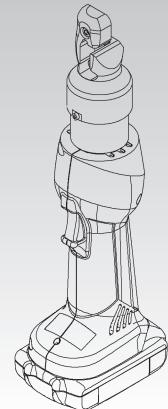
Mesh Cable Tray Cutting Tool Set

with battery and charger

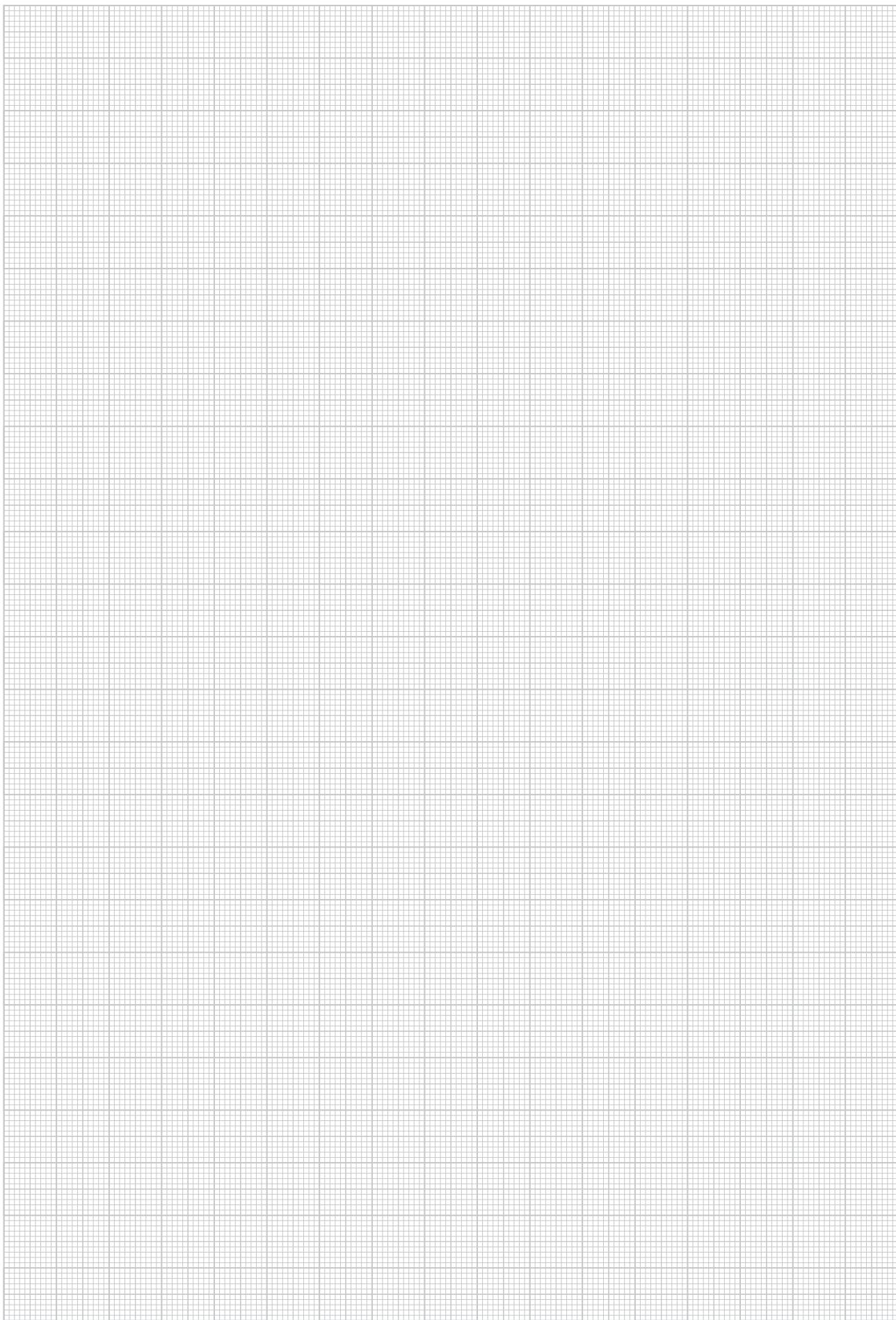
Model No.	Height H mm	Length L mm	EAN code	Weight in kg per 100 pc.	Smallest packaging unit
W-GRSWS 1.5 AH	115	350	110780	475	1 pc.

for separating the mesh tray bars

Used for: mesh cable trays up to 6 mm wire diameter



NOTES



A large rectangular area filled with a uniform grid of small squares, intended for handwritten notes.





INFORMATION

- Type of Galvanisation
- Galvanising Processes
- Installation Informations
- Installation Instructions



information Info

On the following pages we have compiled the most important information about our cable support systems for you.

For further information please contact us personally. Simply call us on +49 2644 / 5606-0 or send an e-mail to info@niedax.de.

EMV

Various of our cable support systems have been tested for electromagnetic compatibility (EMC) by the VDE Institute.



Type of Galvanisation

Stainless steel

- Chemical resistance**

Stainless steel can be damaged by acidic, surface corrosion and various forms of local corrosion. Acidic surface corrosion is primarily caused by low pH values. In practice, galvanic, crevice or stress corrosion, which is usually associated with chloride ions in cleaning agents. In addition, the highly acidic bromine and iodine, which are used in漂白剂, can also trigger severe corrosion.
- Pitting and crevice corrosion**

Pitting corrosion is initiated by an interaction between the passive zone and the passive layer, whereby the passive layer is broken down locally. Pits are depressions that form and, due to their growth, pit the base metal, which can have very little mechanical strength left.
- The risk of pitting corrosion is screening**
 - Increasing concentrations of halide ions (e.g. chlorine, fluoride, bromine and iodine compounds)
 - Increase of the chloride content present on the steel in the electrolyte, e.g. caused by the presence of oxidized agents.
- Crevice corrosion occurs in places where fluid exchange with the environment is limited.**

Crevice corrosion occurs when the material exchanges with the environment less frequently than the outer surface. This occurs when the material is exposed as little as possible in media that contain chlorides. The risk of pitting corrosion, the formation of crevices, can be reduced by applying a perfect galvanic coating to a relatively rough surface. Therefore, the galvanic coating must be applied rapidly and uniformly. A relatively smooth surface colour and scale resist water repellency, foreign substances, chlorine, bromine, iodine, alkali residues etc. must be removed.
- Excessive corrosion cracking**

Excessive corrosion cracking can lead to a corrosion attack on the steel in sufficiently

Installation Informations

Installation Information

Installation Instructions

ROHFS 9 VZL

Conduit support Ø 12, on corner of module base rail system

Installation Instructions

Dismantling Instructions

KSA 175

INFORMATION

Galvanised steel - the perfect material

→ Steel

the material with the many positive characteristics: non-flammable, high mechanical resilient, magnetized, shielding effect (Faraday), no static electricity, fire load-free, halogen-free, 100% fully recyclable.

This exceptionally good, constructive, technological, mechanical and physical properties contribute towards the high utility value and quality of the produced Niedax of cable laying systems.

The many benefits precludes a weak point: steel can rust.

With a well-conducted galvanising however, this weakness is effectively and cost to overcome. Steel and zinc complement each other perfectly.



→ Good all-round protection

is due to the formation of protective, adherent coatings on the zinc. On the new products initially forms a zinc oxide film, which is converted to zinc hydroxide or zinc carbonate under the influence of humidity and carbon dioxide (zinc patina). These protective layers are formed, depending on the surrounding atmosphere, in a few days to several weeks.

→ Cathodic protection

or surface protection mean refers to the ability of zinc to protect the cutting surfaces or other surface damage upon exposure to moisture to corrosion. This capability is based on the more negative of the zinc compared to zinc in the iron status of the "electrolytic voltage range". A galvanising can not rust for the same reason. The cut surface protection is effective up to a material thickness of 2 mm.

Adequate ventilation galvanised components is mandatory. Under unfavorable storage and transport conditions (humid conditions, little or no airflow) may form on freshly galvanised surfaces known as white rust (loose porous zinc hydroxide). White stains may also appear by a dry storage and an unsufficient air access to all surfaces (possibly with stacking wood-shims use). Outdoor storage under sheets or tarpaulins should be avoided.

Niedax cable laying systems made of steel are generally used only in a galvanised finish.*) This term corrosion protection saves valuable natural resources and is thus a significant contribution to environmental protection. As corrosion protection for the Niedax cable laying systems come, operational and manufacturing reasons, the galvanising process described in more detail in the following summaries are used.

| *) For exceptional, aggressive environmental conditions cable laying systems are made of stainless steel or fiberglass reinforced plastic available.



Comparison of three galvanising processes

Liquid Dip Process		Electrolytic Process
Immersion in liquid Zinc/Zinc-Aluminium		
Process standard		
Hot Dip Galvanising (HDG) after fabrication according to DIN EN ISO 1461 (DIN EN ISO 10684 for hardware)	Continuous Strip Galvanisation (Sendzimir Process) according to DIN EN 10 346	Electrolytic Galvanising (Electroplating) according to DIN EN ISO 2081 (DIN EN ISO 4042 for hardware)
Structure and composition of the coating		
Alloying with the base material	Alloying with the base material	Laminated coating
Usual thickness of the zinc layer		
Depending on the thickness of the material to be galvanised, up to 1.5 mm thickness approx. 45 µm, up to 3 mm thickness approx. 55 µm, up to 6 mm thickness approx. 70 µm	Layer thickness Z 140: 10 µm ± 3 µm Layer thickness Z 275: 20 µm ± 5 µm according to DIN EN 10 346	Approx. 2.5 to 20 µm, in undercuts and recesses (thread flanks) the layer thickness is less than on open surfaces
Special features		
Each component is individually dipped in the liquid zinc bath. The zinc washes over the entire surface. Hollow sections are protected on the in- and outside. Rigid corrosion protection.	The corrosion protection layer is applied to the surface by passing the steel as a continuous ribbon through a bath of molten zinc.	The zinc layer is deposited from an aqueous electrolyte by means of DC current. Post-treatment is generally applied to improve the protective effect. Decorative visual appearance, smooth surface with no edges and burrs.
Distinguishing features		
The surface is relatively rough, and solidified zinc may block small holes. Newly galvanised surfaces are bright shining; high temperature galvanised parts such as screws are grey.	Smooth surface depending on the process, slightly greased. Holes and cut edges expose "bare metal". Corrosion protection of "bare" edges up to 2 mm material thickness is provided by the cathodic protection effect.	Iridescent shimmer, bright and shiny surface after passivation.
Usage - Application		
Welded components, equipment exposed to the weather.	Non-welded components up to 2 mm thick, especially for interior building work.	For parts in almost all shapes and sizes, corrosion protection and decorative finish. Recommended for dry, indoor areas only.
Corrosion Protection (typical annual degradation for Central Europe)		
Depending on the atmospheric conditions and the local environment. Rural 0.1 - 1.0 µm Suburban 1.0 - 2.0 µm Marine 2.0 - 4.0 µm	Almost unlimited corrosion protection in dry indoor areas habitable by humans. Annual removal is hardly measurable there. No subdivision into band, urban, industrial and marine air.	Salt spray tests according to DIN EN ISO 9227 NSS show up to 360 hours before rusting depending on the thickness of the zinc layer and the passivation method.

1 Components over 2 mm in material thickness are hot dip galvanised at Niedax.

2 Local environmental conditions would be for instance the direct corrosive effect of a chimney with CO₂ flue gases.

INFORMATION

Galvanising

Batch galvanising F



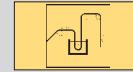
(Hot-dip galvanisation) according to DIN EN ISO 1461 (DIN EN ISO 10684 for hardware)

By immersion in liquid zinc (hot-dip process, ca. 450° C), the entire surface, including all corners and edges lapped. On the steel is an iron-zinc alloy layer forms with an overlying layer of pure zinc. The layer thickness depends on the material thickness and is according to DIN EN ISO 1461 to 1.5 mm material thickness 45 microns, up to 3 mm thick 55 microns and up to 60 mm material thickness 70 microns. Due to the very hard iron-zinc alloy layer can batch-galvanised components, without damaging the zinc surface, not deformed.

Application examples from the Niedax program:

All components with welded joints, for example, suspension struts, cable and pipe clamps as well as products with more than 3 mm thick, cable trays / ladders, wide span cable trays / ladders and many more, as far as increased demands on the corrosion resistance (weathering without rain shield).

Strip coating S



(Sendzimir Process) according to DIN EN 10 346

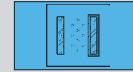
The zinc coating is on both sides, applied by a zinc bath on broadband in the run. The project uses the modified sendzimir. On the steel is an iron-zinc alloy layer forms with an overlying layer of pure zinc. The layer thickness of the sendzimir coil used for Niedax cable laying systems is under consideration of the test method according to DIN EN 10346 according to three surface sample depending on the product group 10 - 20 microns.

Strip galvanisation is used for components up to max. 2 mm material thickness, as up to this strength, a sufficient edge protection is achieved by "cathodic protection". The process-related "bare iron" interfaces of the components are in use in dry interiors, by the cathodic protection effect is not a disadvantage. Strip galvanised components can be formed without damaging the zinc surface.

Application examples from the Niedax program:

Cable trays / ladders, wide span cable trays / ladders, cable ladders, cable protection ducts, light boom, rails up to 2 mm thickness. In dry indoor areas without aggressive media, the strip galvanising provides permanent corrosion protection.

Zinc coating V G



Selon DIN EN ISO 2081 (DIN EN ISO 4042 for hardware)

The zinc coating is applied in aqueous electrolytes by means of direct current. To improve the corrosion protection can be carried out by an aftertreatment thick layer passivation and blue passivation according to DIN 50961.

The zinc coating is 2.5 to 20 microns. Parts with undercuts, such as C-shaped armature rails, due to the process less heavily coated inside than outside (Faraday cage).

Application examples from the Niedax program:

Small parts (screws, washers up to max. 6 M), mounting rails and screws for distribution board, but with additional thick layer passivated.



➡ Additional plastic coating



Strip galvanised components with plastic coating

Strip galvanised components according to DIN EN 10 346 can be additionally equipped with a plastic coating. Niedax uses exclusively the electro static powder coating process. Besides aesthetic reasons or individual colour scheme requests, there are many more reasons to coat strip galvanised steel. For example the marking of the cable trays (High voltage, medium voltage, low voltage, communication-/EDP-lines etc.). The coating does not represent extra corrosion protection.

The COLOR-coating is applied according to the electro static powder coating process. The particular characteristics of this high quality powder coating process are excellent resistance against detergents as well as against highest thermic and mechanical stress. The material for the coating process is free of halogen. The inner surfaces of the COLOR-ducts remain blank from zinc; this means a well contact for protective conductors at any position. The outer surfaces are just coated in the field of view, with good wrap-around to the rear. If the COLOR-ducts are supposed to be applied freestanding, for example as energy columns, it needs to be indicated along with the order.

For the COLOR-coating, exclusively coating powder is applied according to the RAL-colour chart. With processing clearly defined colour shades and the use of latest process engineering, colour deviations are avoided to the greatest possible extent. Regardless these precautions it is not excluded, especially for additional deliveries, that there might be some lower colour deviations (DIN 6175 Part 1). We understand by colour deviation the track of colour differences according to DIN EN ISO 3668, chart B.1, evaluation 2.

➡ Hot Dip Galvanising components with a polyester epoxy resin coating

The products marked with C1 are hot-dip galvanised and polyester resin with an epoxy coating in a thickness of 60 - 80 microns provided. When using indoors this plastic coating ensures excellent corrosion protection as well as high mechanical resistance and is resistant to most chemicals.

The zinc coating is thus protected by the overlying coating from atmospheric and chemical influence. A removal of metallic zinc is avoided, so that the zinc coating remains intact for a long time under the coating in mint condition.

For special use in the outdoor area, we are pleased to offer other coatings.



➡ Coat with zinc dust paint

The zinc-rich paint shall be such that in the dry film more than 90% zinc is included. To avoid the formation of cracks in the coating, the coating is applied in several steps.

Application examples from the Niedax program:

Improvements, particularly assembly-related injuries of the zinc surface by welds or the like.

For detailed information about the zinc can be found in the cited standards as well as in a voluminous literature offer.

INFORMATION

Plastic/Elastomer

→ Plastic changes

their properties with temperature fluctuations. For this reason, plastic/elastomer articles should be stored below freezing in a warmer environment before processing to ensure full functionality.

Catalogue icon	Abbr	Material description	Operating temperature range	Mechanical properties	Range of application (examples)	Stress cracking
K01	PA	Polyamide, halogen-free	-30°C to 80°C	stiff, hard, very solid, very tough, abrasion-resistant	Cable glands, collecting holder, cable bracket, plug terminals	low
K02	PS	Polystyrene, halogen-free	-30°C to 60°C	brittle, notch-sensitive, stiff, very hard	Cable glands, row clamps, counter trough	powerful
K03	PE	Polyethylene, halogen-free	-40°C to 80°C	soft to stiff, tough, low strength	Protective caps, round clamps, counter trough	powerful
K04	PP	Polypropylene, halogen-free	-40°C to 90°C	form stiff, hard, solid, lower notch impact strength	Terminal housings, pipe clamps, nail clamps	possible
K05	PC	Polycarbonate, halogen-free	-40°C to 120°C	high strength, hardness and toughness, impact-resistant	Terminal housing	possible
K06	SBR/NBR	Styrene butadiene nitrile rubber, halogen-free	-30°C to 100°C	good abrasion and weather resistance	Sealing rings	no
K07	CR	Neoprene (Chloroprene rubber), halogenated	-40°C to 120°C	good weather, chemical and ageing resistance	Sealing rings	no
K08	NBR	Nitrile butadiene rubber, halogen-free	-40°C to 120°C	flexible at low temperatures, high impact elasticity, low weather resistance	Sealing rings	no
K09	PVC	Polyvinyl chloride hard, halogenated	-20°C to 65°C	solid, stiff, hard, low notch sensitivity	Plastic ducts	low
K10	Soft PVC	Polyvinyl chloride soft, halogenated	0°C to 50°C	flexible, soft, good abrasion resistance	Protective caps	no
K11	ABS	Acrylonitrile butadiene styrene, halogen-free	-30°C to 80°C	very tough even with low temperatures, hard, stiff, scratch-resistant	Mounting plates, fittings for plastic ducts	low
K12	ASA	Acrylic acid ester-styrene-acrylonitrile graft copolymer, halogen-free	-30°C to 85°C	impact resistant even in the cold, strength similar to ABS	Device tank housing	low
K14	POM	Polyoxymethylene, halogen-free	-40°C to 100°C	solid, stiff, tough, also at high temperatures, elastic spring behaviour	Cable brackets	few
K15	SBR	Styrene butadiene rubber, halogen-free	-50°C to 100°C	high abrasion resistance, good heat and cold resistance	Sealing rings	no
K16	CR/NBR	Chloroprene/Nitrile butadiene rubber, halogenated	-20°C to 100°C	high impact elasticity, improved weather resistance	Sealing rings	no
K17	CR/SBR	Chloroprene/Styrene butadiene rubber, halogenated	-20°C to 70°C	high abrasion resistance, lower heat and cold-resistance	Sealing rings	no
K18	TPE	Thermoplastic elastomers, halogen-free	-40°C to 120°C	very good resistance to weathering, ozone and ageing	Sealing rings	no
K19	FS 31	Moulding material 31 (Phenolic resin), halogen-free	to 125°C	high strength, high hardness, high temperature resistance	Illumination sockets	low
K20	SI	Silicone rubber, halogen-free	-40°C to 180°C	good ageing and high temperature stability	Sealing rings	no
K21	PUR	Polyurethanes, halogen-free	-25°C to 60°C	high tensile strength, buckling and abrasion resistance	Industrial hoses, seals, adhesives	low
K22	PET	Polyethylene terephthalate, halogen-free	-40°C to 190°C	high strength, very low moisture absorption	Illumination sockets	low
K23	UP-GF	Glass fiber reinforced polyester, halogen-free	-50°C to 180°C	high strength, high hardness, high temperature resistance	Cable duct, handrail, construction profiles	low
K24	PBT	Polybutylene terephthalate, halogen-free	-50°C to 150°C	high strength, high abrasion resistance, good chemical resistance	Illumination sockets	no

The information on halogen-free properties is based on searches of the relevant technical literature or supplier information. The statements always refer to chemically pure materials without flame-retardants. Tests according to DIN VDE 0604-2-100 have not been carried out.



➡ Chemical resistances

Catalogue icon	Water	Acids (10%)	Alkalis (10%)	Alcohol (ethanol)	Petrol	Benzene	Mineral oil	Vegetable and animal fats	Solvent
K01	+	o	+	+	o	+	o	+	o
K02	+	o	+	+	-	-	o	o	+
K03	+	+	+	+	o	-	o	+	-
K04	+	+	+	+	o	o	+	+	o
K05	+	o	-	+	-	-	+	+	o
K06	+	o	o	+	-	-	o	o	o
K07	+	-	-	+	o	+	o	o	o
K08	+	o	+	+	+	o	+	o	o
K09	+	+	+	+	+	-	+	+	-
K10	+	+	o	+	-	N/A	-	o	-
K11	+	o	N/A	+	-	-	+	-	-
K12	+	o	o	+	-	-	+	+	-
K14	+	o	o	+	+	+	+	+	-
K15	+	+	+	+	-	-	-	-	o
K16	+	o	o	+	o	-	+	+	o
K17	+	o	o	N/A	-	-	o	N/A	N/A
K18	+	+	+	N/A	+	N/A	+	N/A	-
K19	+	o	o	+	+	o	+	N/A	o
K20	+	o	o	+	o	-	+	+	o
K21	+	-	-	N/A	+	N/A	+	+	o
K22	+	+	o	+	+	o	+	N/A	o
K23	+	+	+	+	+	o	+	+	+
K24	+	o	+	+	+	o	+	+	o

+ = constant o = conditionally constant - = inconsistently N/A = not available

Source: Plastic tables, e.g. Plastic Compendium, Franck, Vogel-book publisher, manufacturers' data sheets

The information given in the tables is intended as a guide for the preselection of products and is based on our current knowledge.

The properties can be negatively influenced by the geometry of the products and the type of application.

More detailed information is available on request. To test the suitability of a product, a test under the specific environmental conditions is required.

Further chemical resistances can be found on our homepage at www.kleinhuis.de > Download > Catalogues

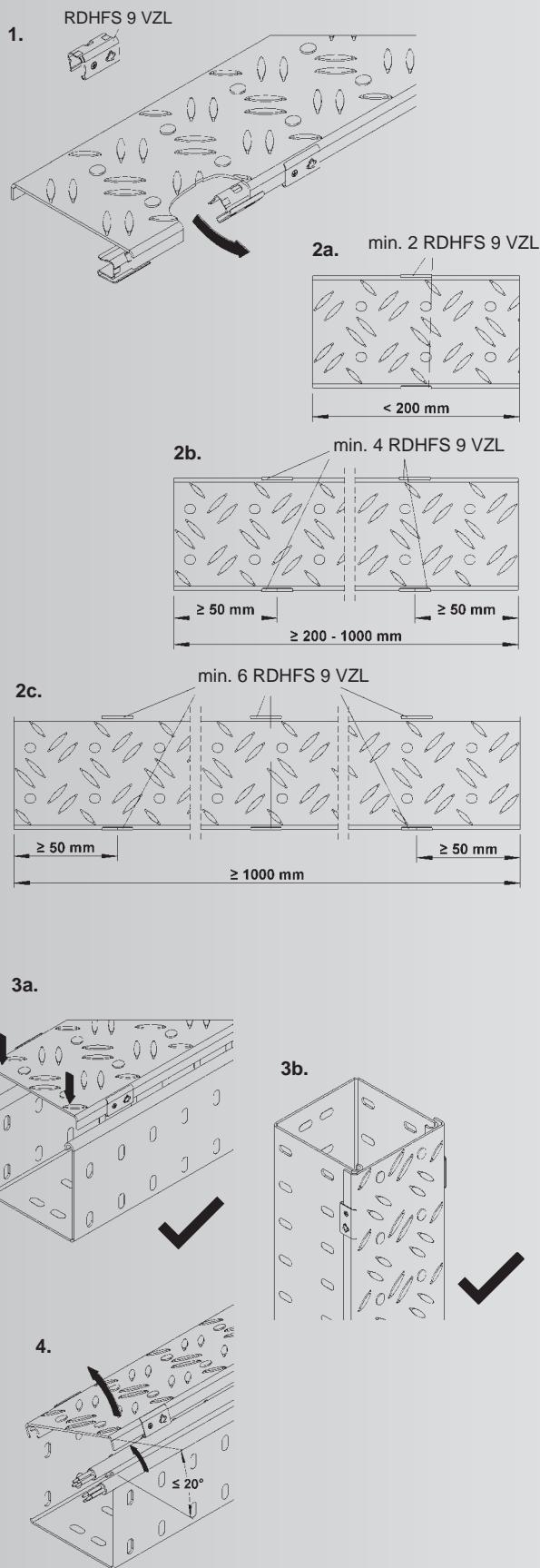
INFORMATION

Installation Instructions

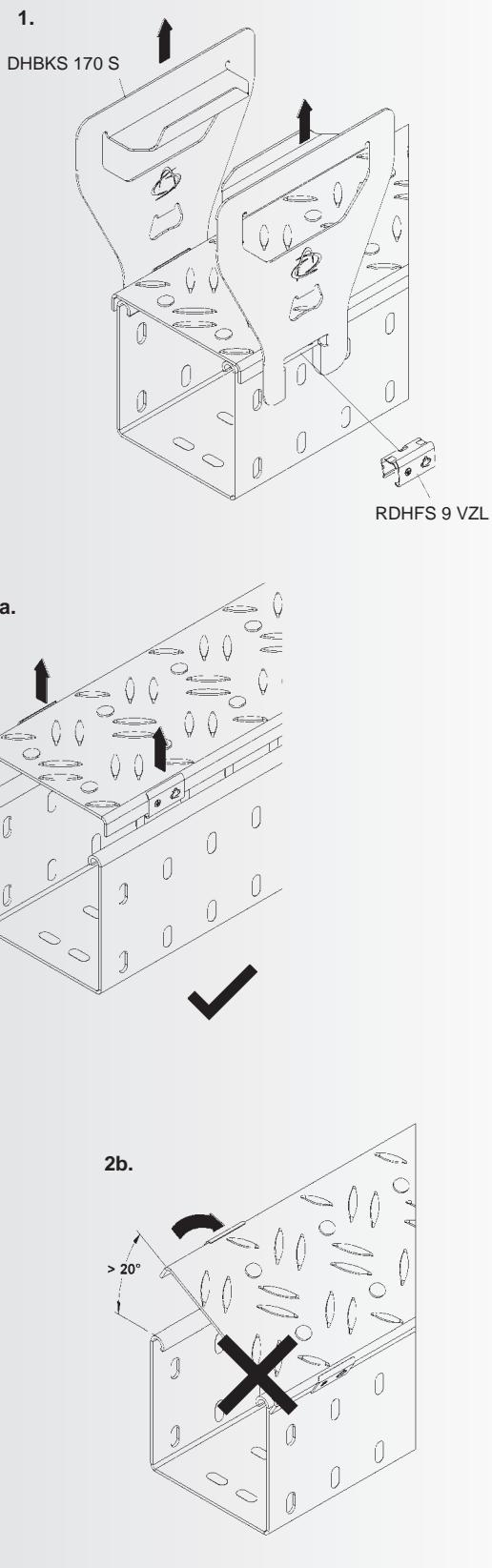
RDHFS 9 VZL

Cover clamp RDHFS 9 VZL on cover of walkable cable tray system

Installation Instructions

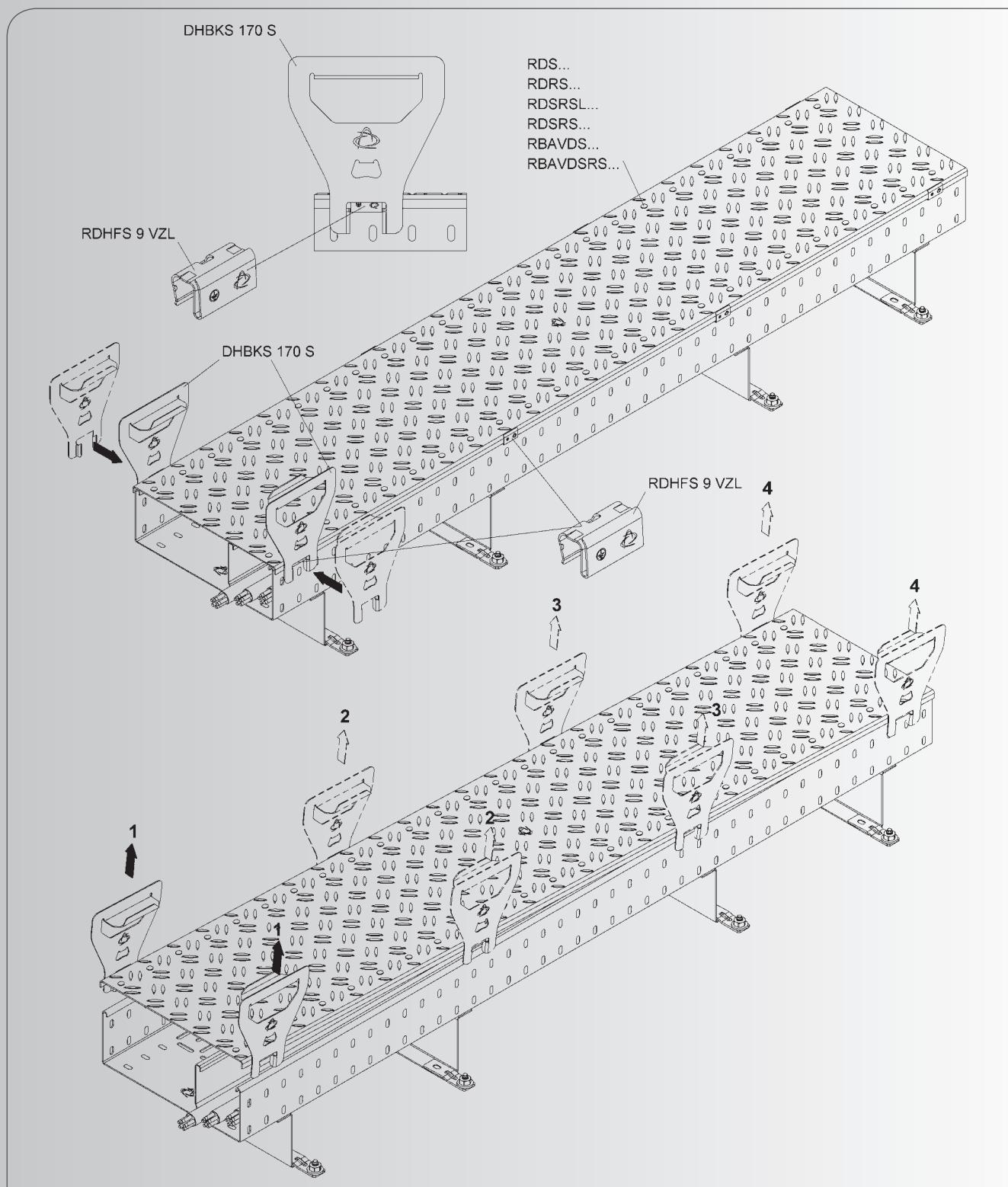


Dismantling Instructions



Installation Instructions

DHBKS 170 S

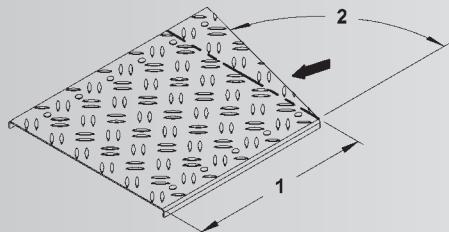


INFORMATION

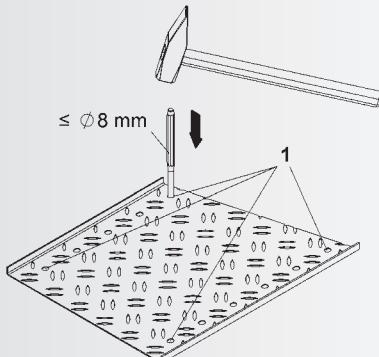
Installation Instructions

Preparing the RDRS... anti-slip cable tray cover for fixing with the RDRS 9X2 turnbolt lock

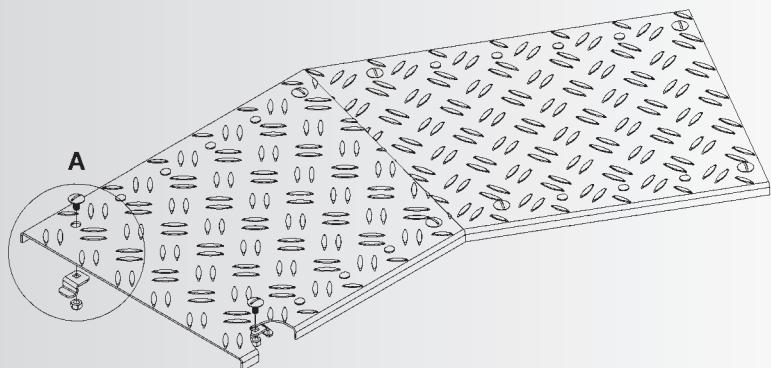
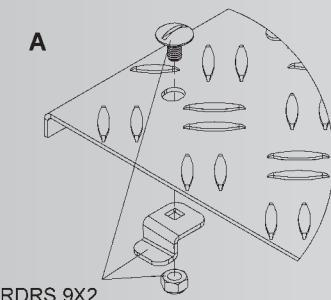
1. Cut the cover at a right angle (1) or the corresponding angle for the change of direction (2).



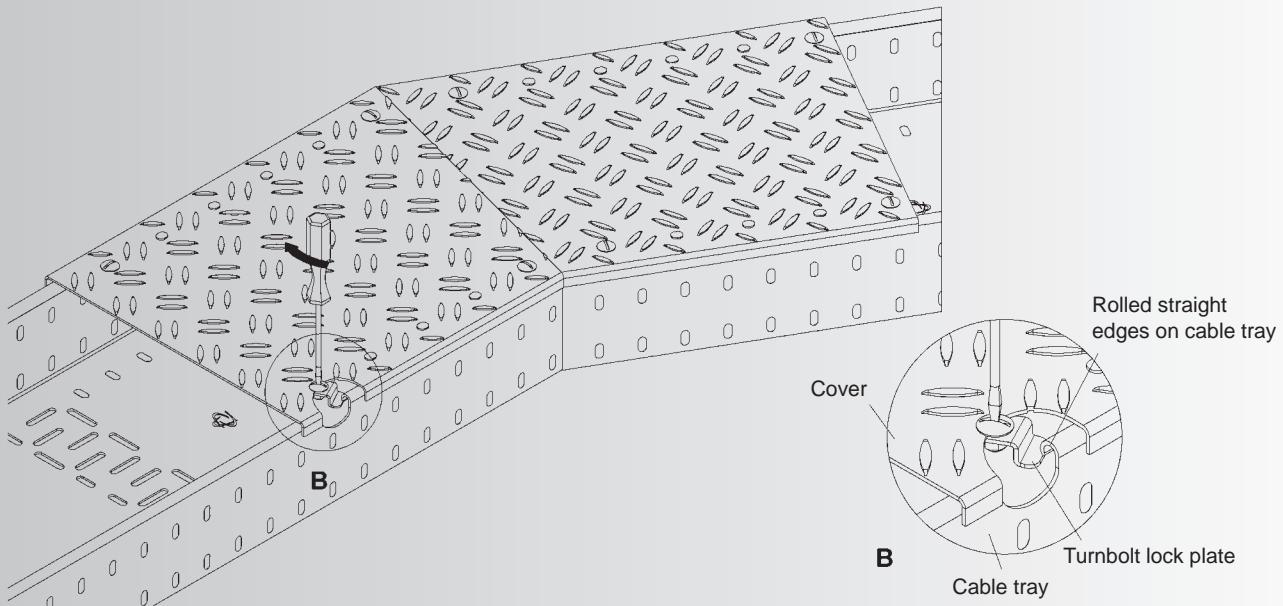
2. Turn the cover over and use a punch to remove the knockouts nearest to the cutting edge (1).



3. Prefit the RDRS 9X2 turnbolt lock as required.



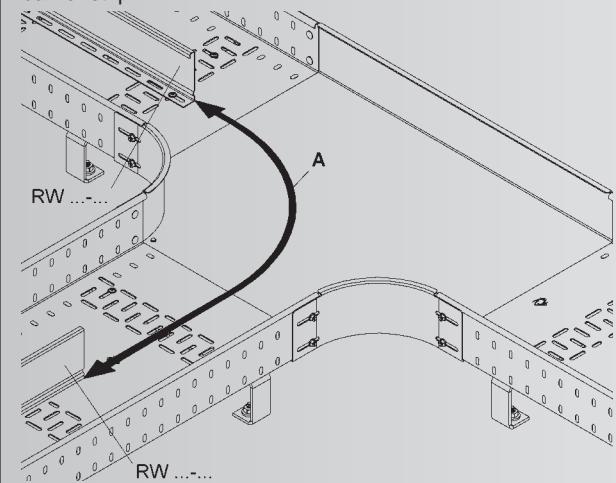
4. Place the RDRS... cable tray cover onto the cable tray and use a screwdriver to screw in the turnbolt locks. The plate on the turnbolt lock grips under the rolled straight edges of the cable tray and thus guarantees a tight connection between the cover and the cable tray.



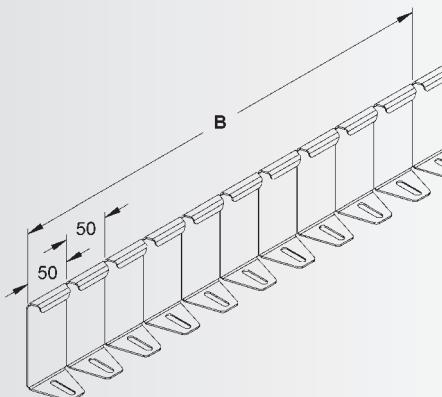
Installation Instructions

RTSQF...

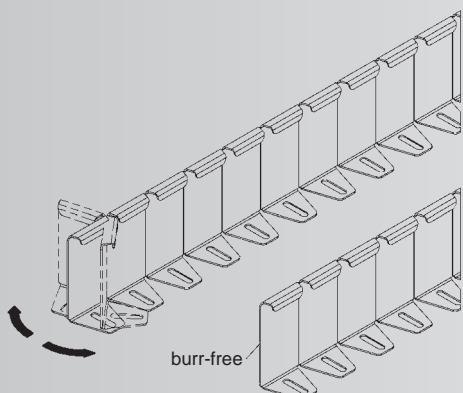
1. Measure the approx. required length (**A**) of the RTSQF... barrier strip



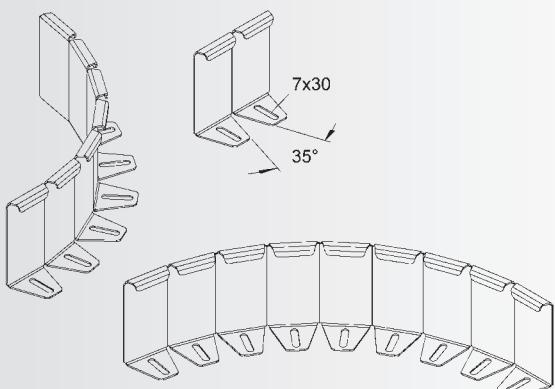
2. The 50 mm segments make it easier to measure and cut the barrier strip (**B**) to the approximate length required.



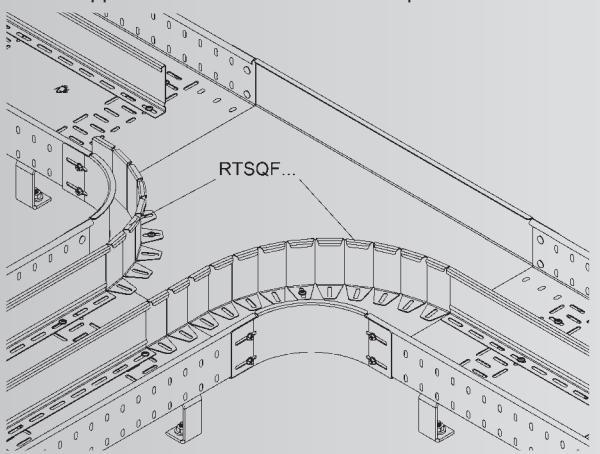
3. The barrier strip can be shortened by 50 mm per segment in each case by bending over the relevant segment(s) multiple times to each side.



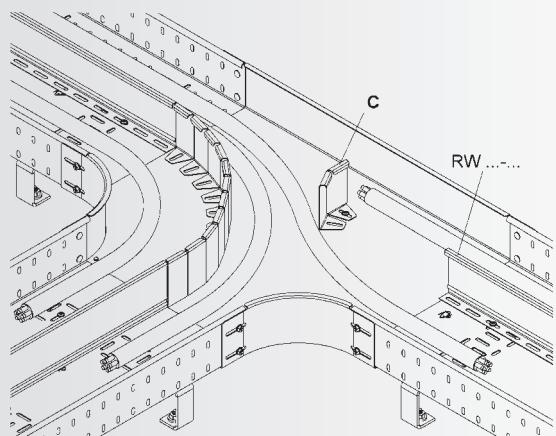
4. Flexible adjustments to the barrier strip can be easily achieved by hand without the need for tools. It is possible to adjust the form of the barrier strip in both directions.



5. Inserting the RTSQF... flexible barrier strip will create a continuous partition in the tray compartment and also provides linked support to the fitted cover in one step.



6. If required, individual or multiple segments (**C**) can be used to provide additional support for the fitted cover.



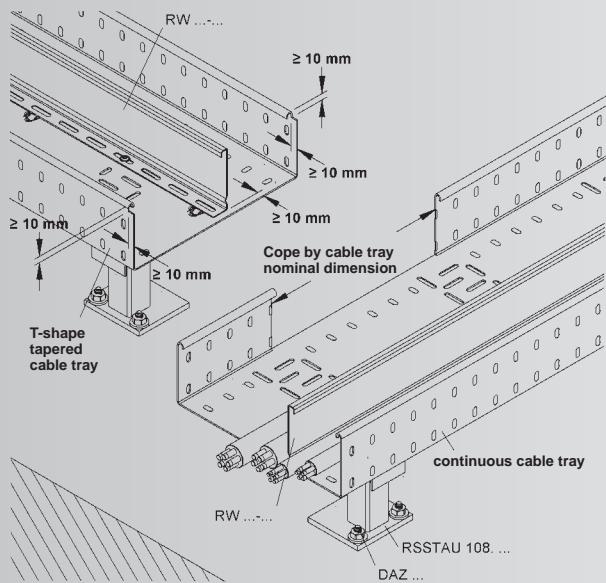
INFORMATION

Installation Instructions

RSUVKS...

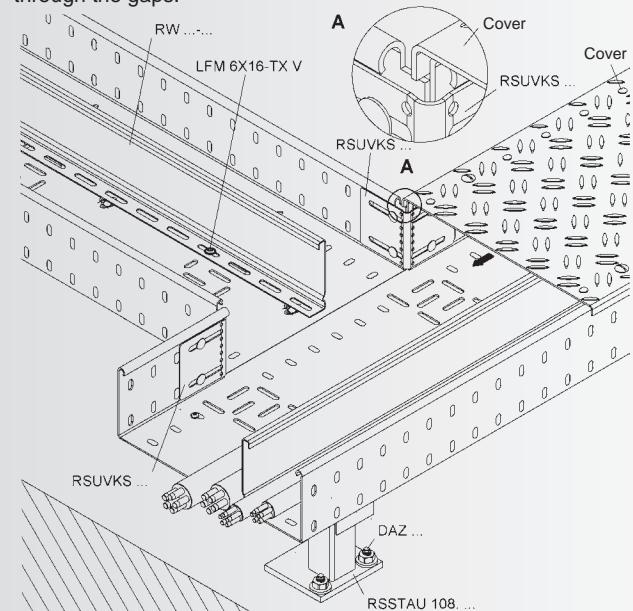
Forming a tee joint with the RSUVKS... splice plate

1. Remove a section of the side rail on the continuous cable tray to match the nominal size of the cable tray running into it to form the tee shape. Remove the rolled straight edge in the area of the joint on both sides according to the diagram.

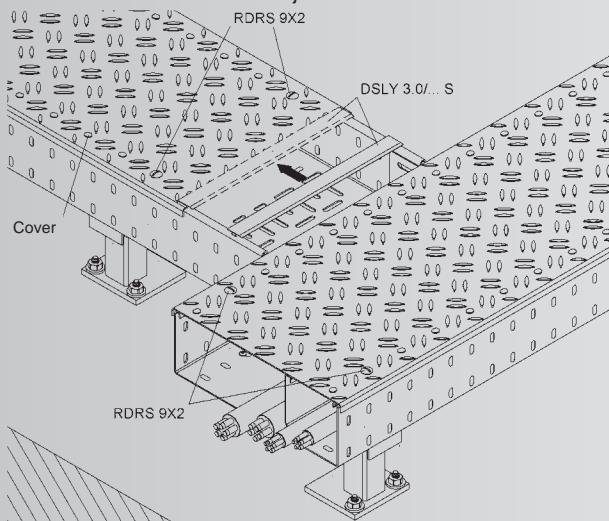


2. Connect the cable trays forming the tee shape at the joint using RSUVKS... universal splice plates.

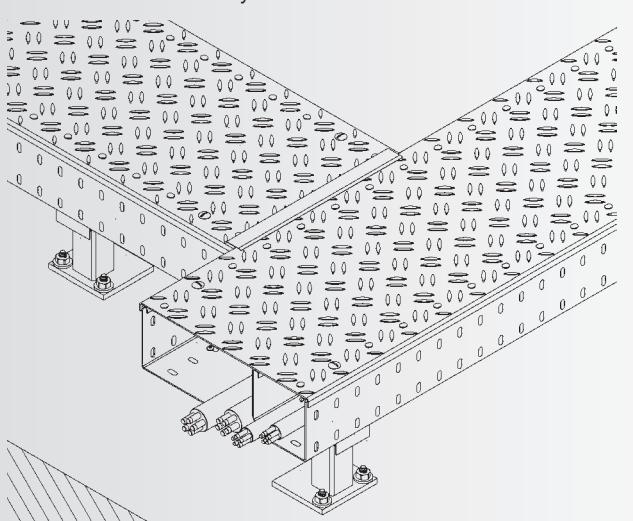
The cover on the continuous cable tray can be easily fitted or slid through the gaps.



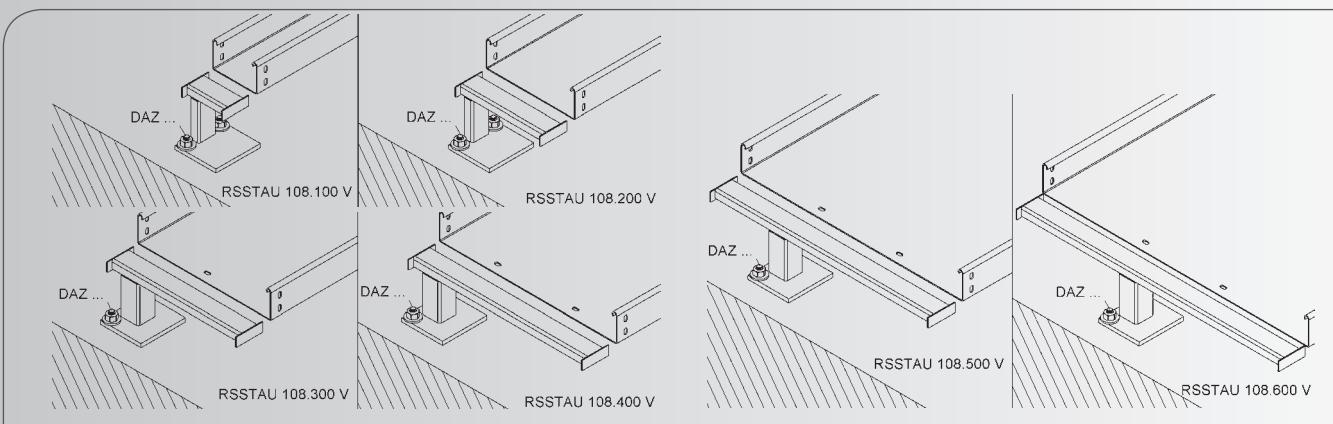
3. Attach a DSLY 3.0/... cover protection strip with its insertion slots onto the cover of the tee joint.



4. Slide the protection strip and the cover towards the cover of the continuous cable tray.



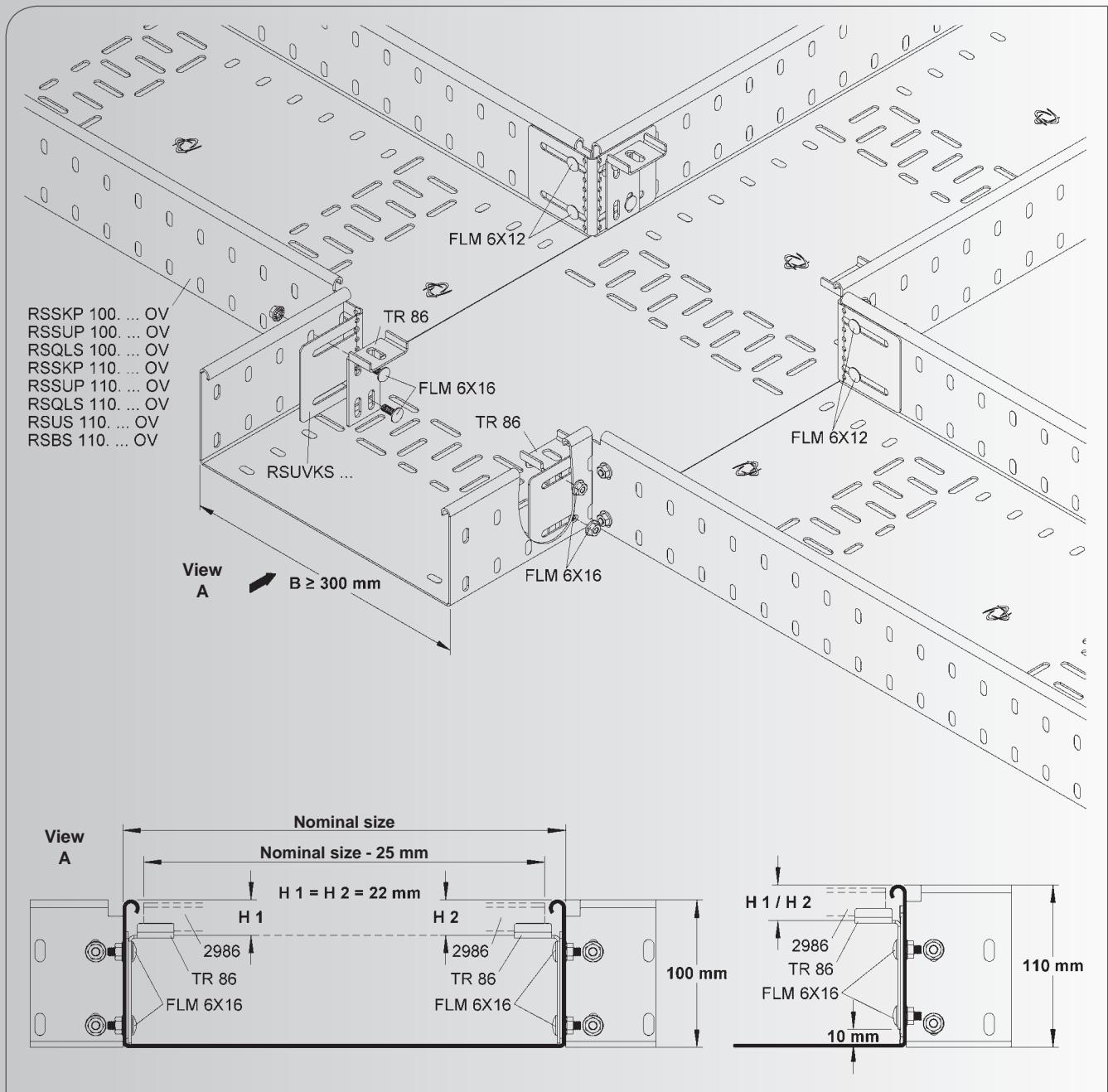
RSSTAU... floor stands



Installation Instructions

TR 86 S

Support TR 86 S in conjunction with C-profile 2986 for cover support without barrier strip assembly.

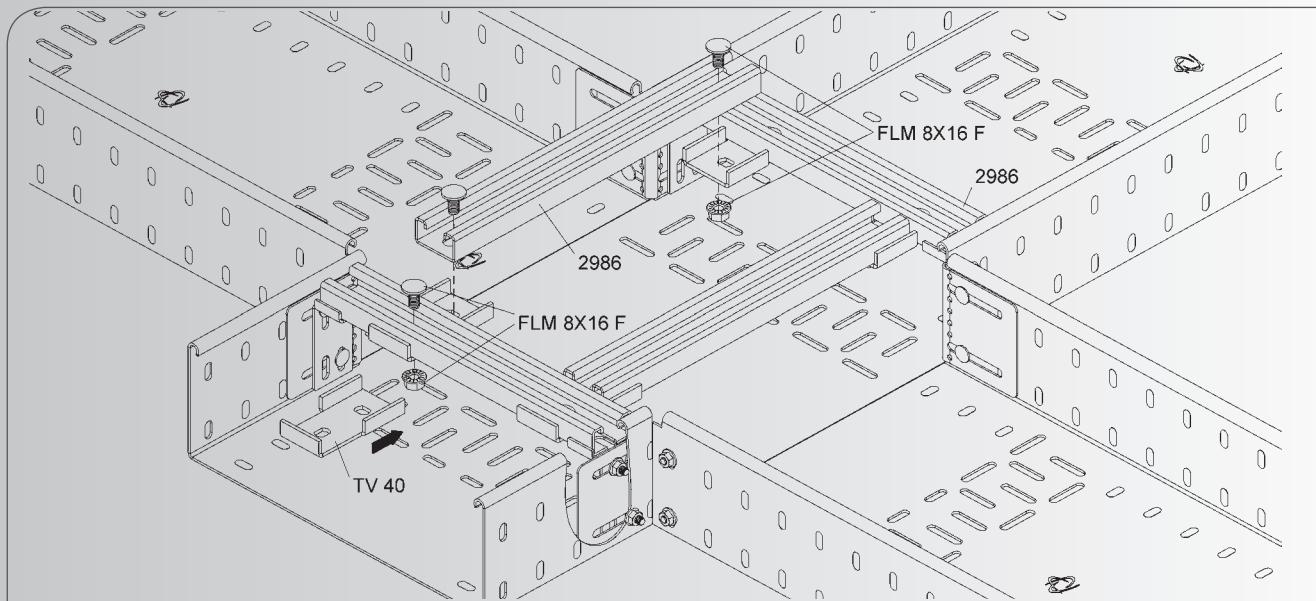


INFORMATION

Installation Instructions

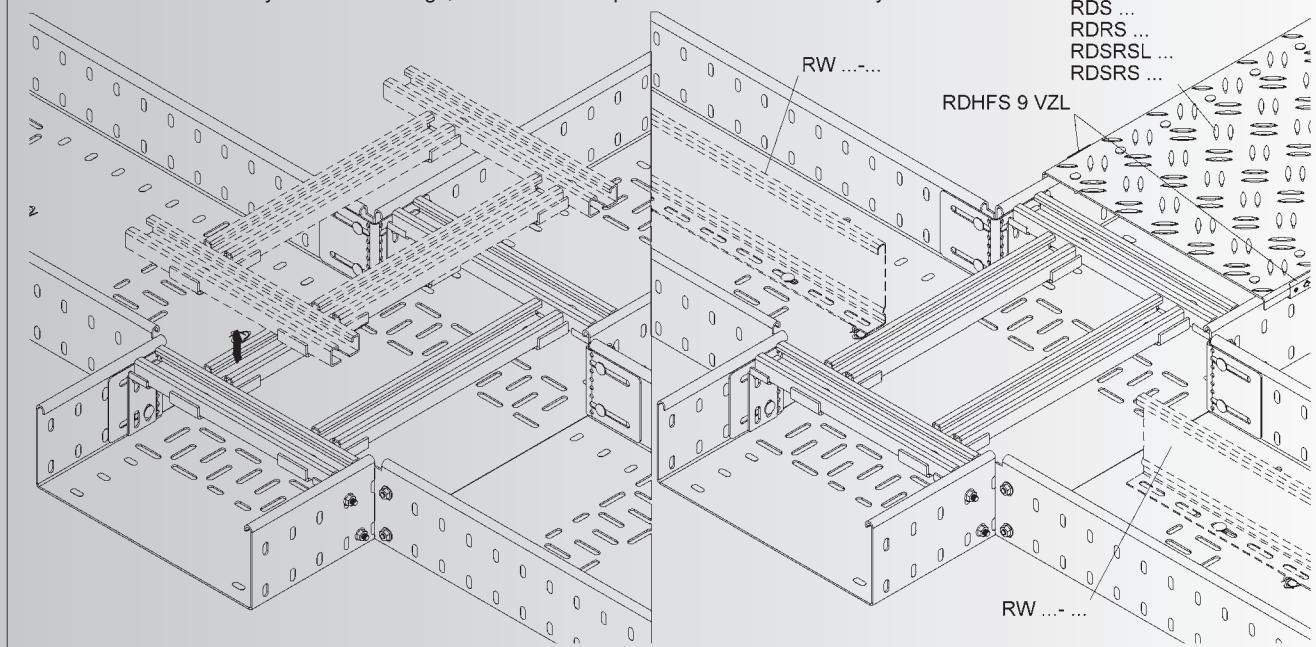
TR 86 S

Support TR 86 S in conjunction with C-profile 2986 for cover support without barrier strip assembly.

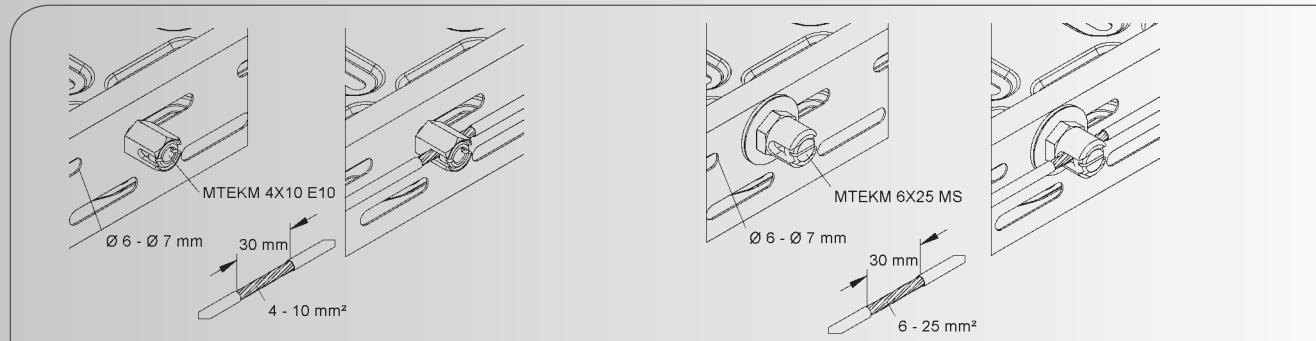


Flexible dismantling of the rails eliminates the need to thread the cables.

The construction is mainly used at crossings, 90° elbows or T-pieces of walkable cable trays.

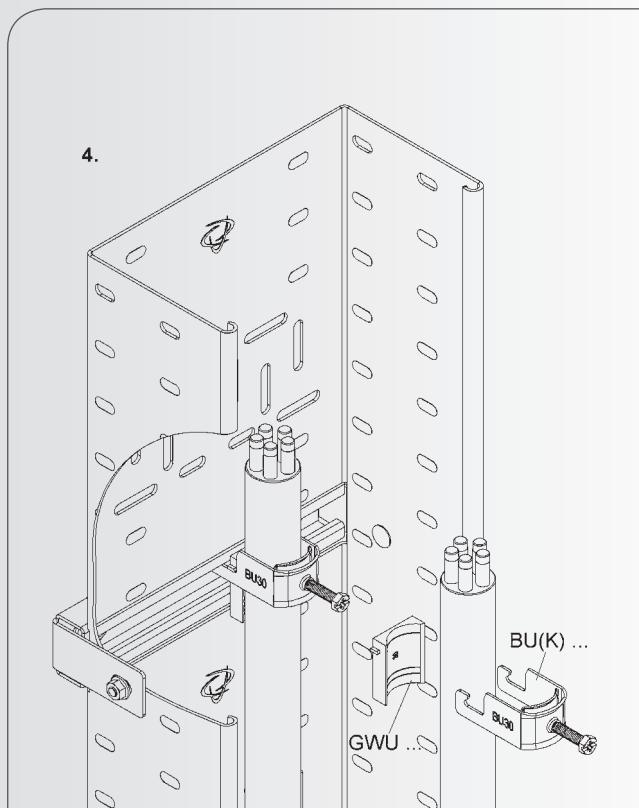
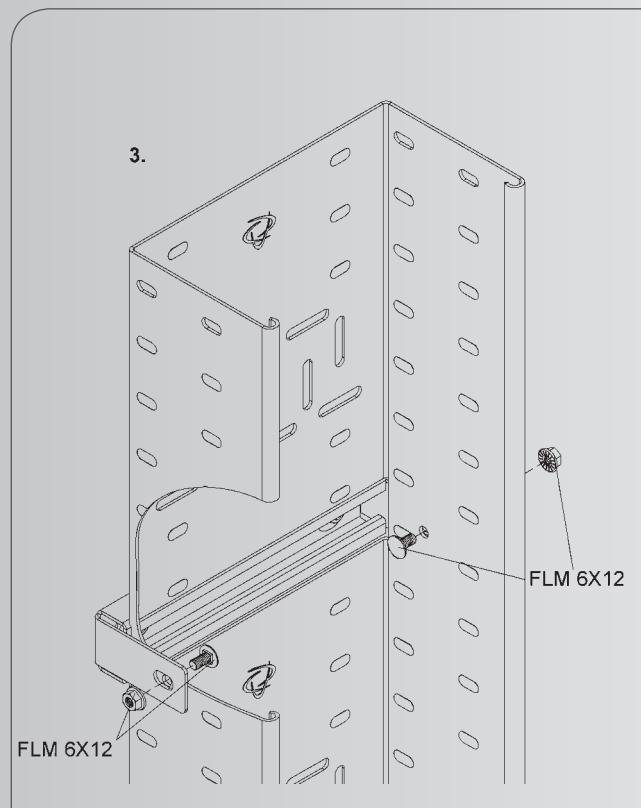
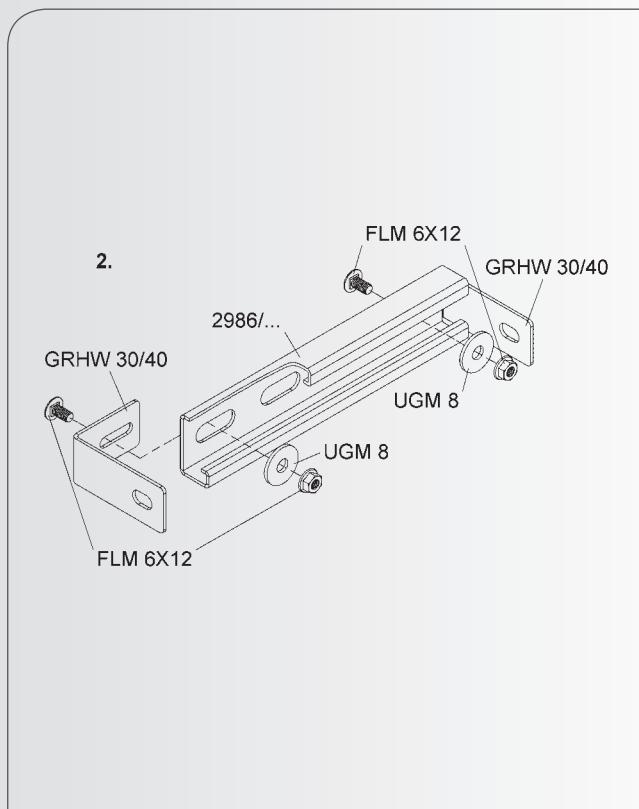
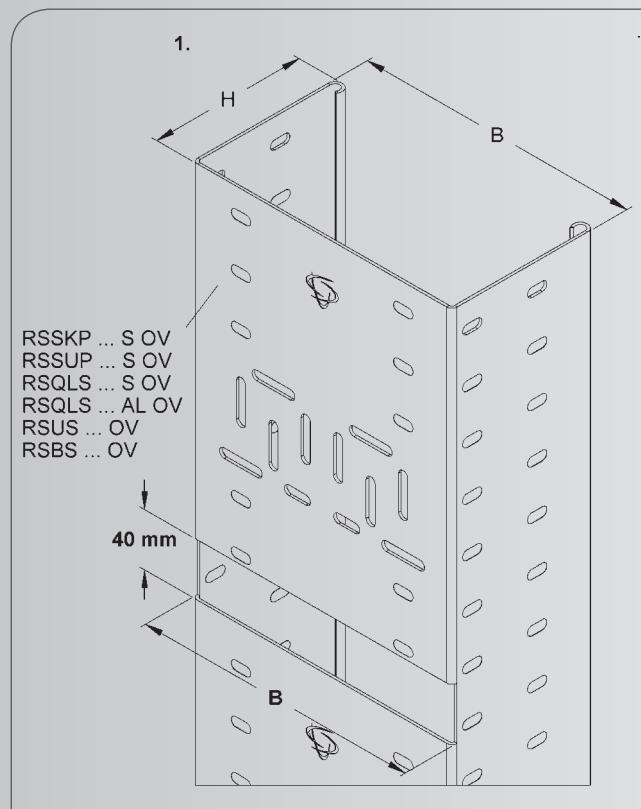


Ground Terminal MTEKM...



Installation Instructions

Walkable cable channel as riser duct

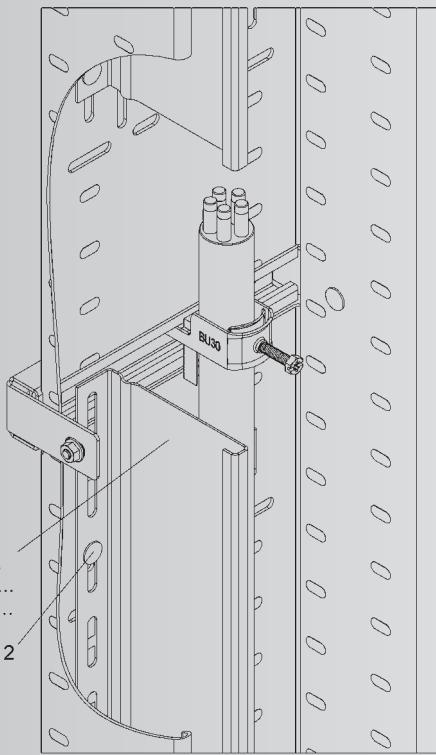


INFORMATION

Installation Instructions

Walkable cable channel as riser duct

5.



6.

RSSKP ... S OV
RSSUP ... S OV
RSQLS ... S OV
RSQLS ... AL OV
RSUS ... OV
RSBS ... OV

RSUVKS ...

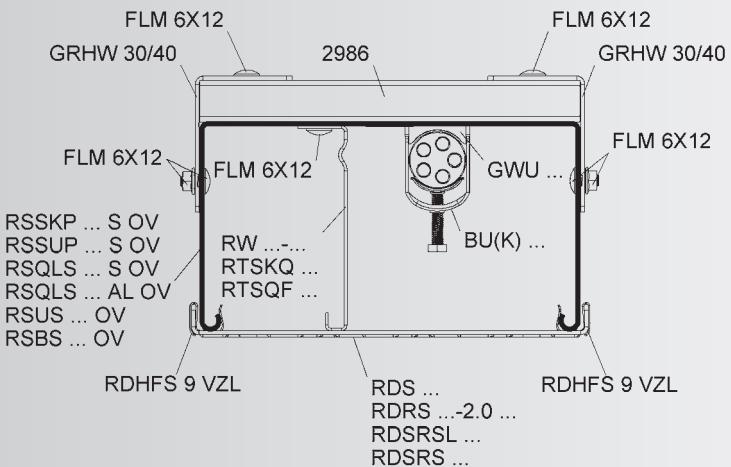
FLM 6X12

RSSKP ... S OV
RSSUP ... S OV
RSQLS ... S OV
RSQLS ... AL OV
RSUS ... OV
RSBS ... OV

RDHFS 9 VZL

RDS ...
RDRS ...-2.0 ...
RDSRSL ...
RDSRS ...

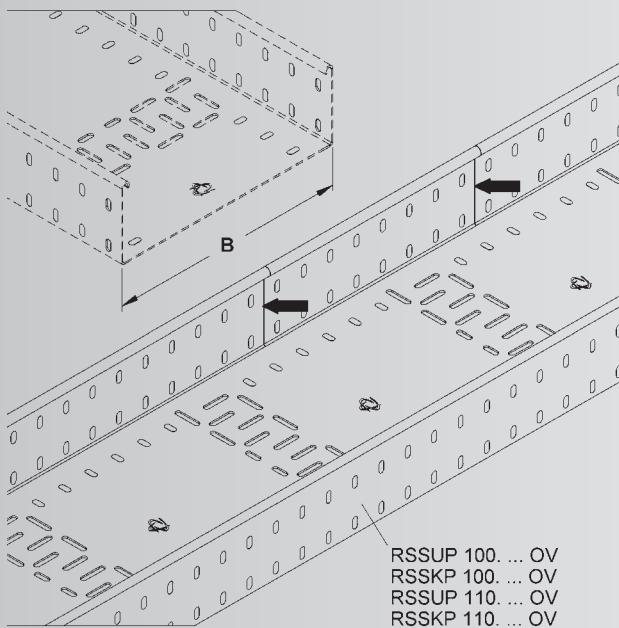
Top View



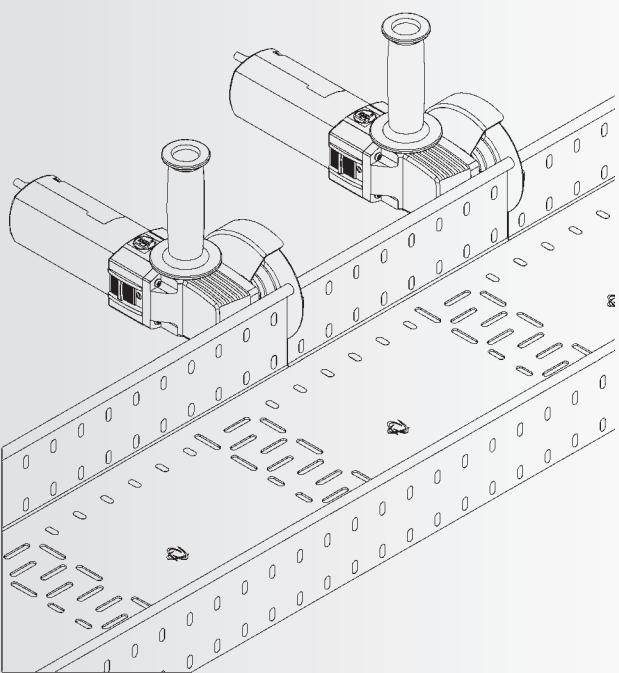
Installation Instructions

Cable trays RSSUP...OV and RSSKP...OV for walkable cable tray system

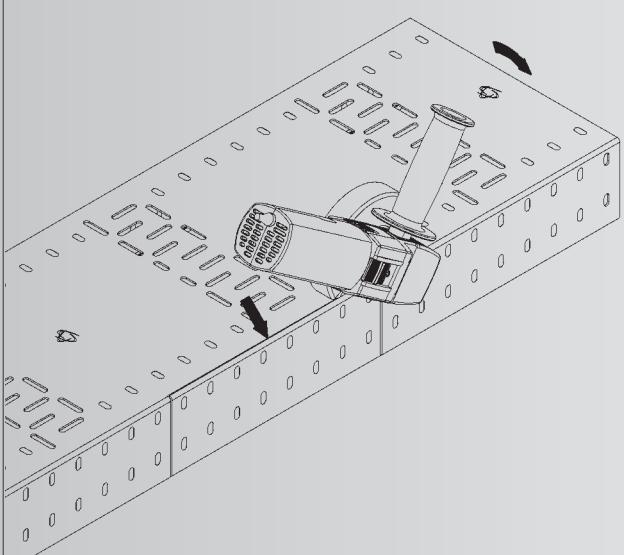
1.



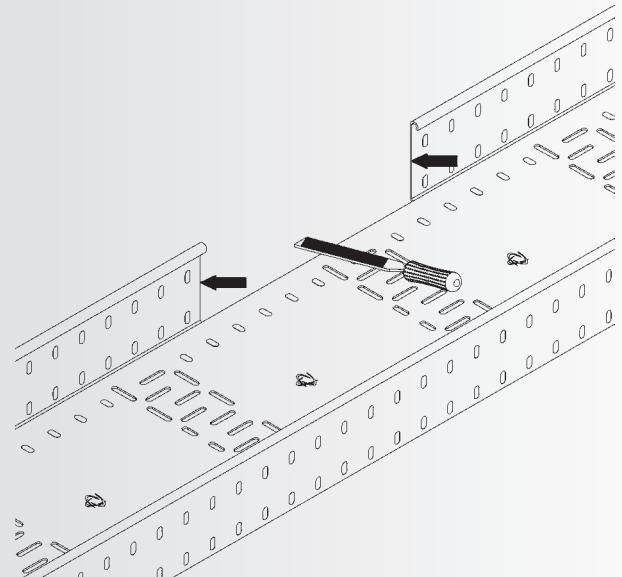
2.



3.



4.

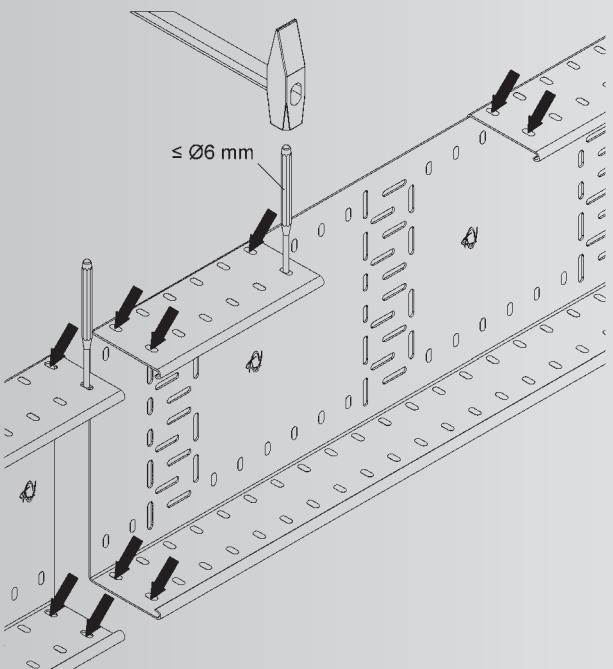


INFORMATION

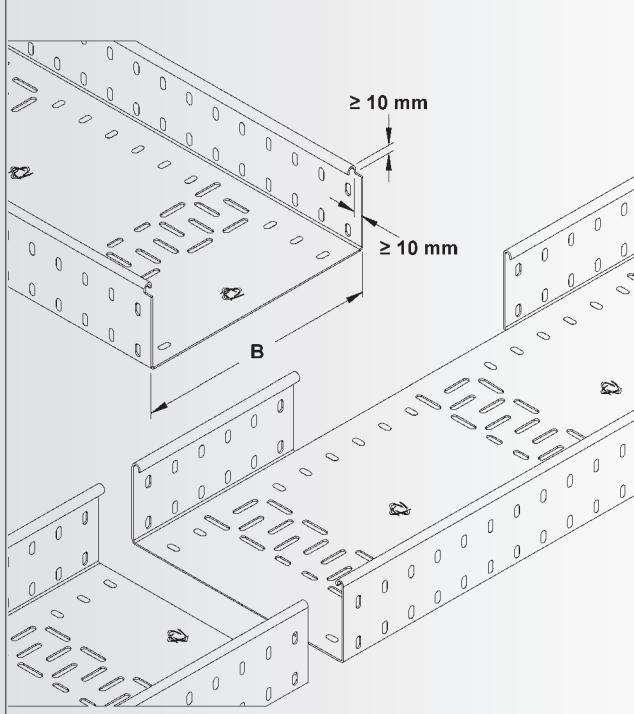
Installation Instructions

Cable trays RSSUP...OV and RSSKP...OV for walkable cable tray system

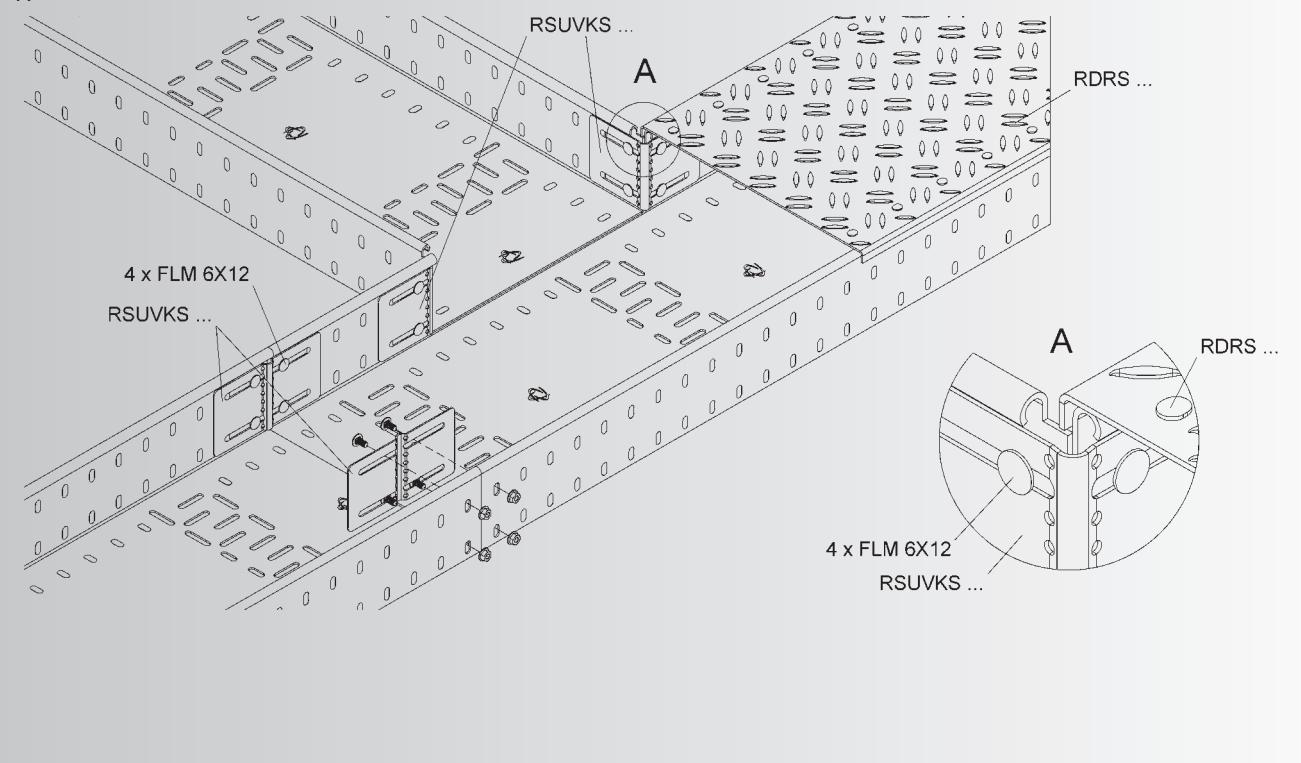
5.



6.



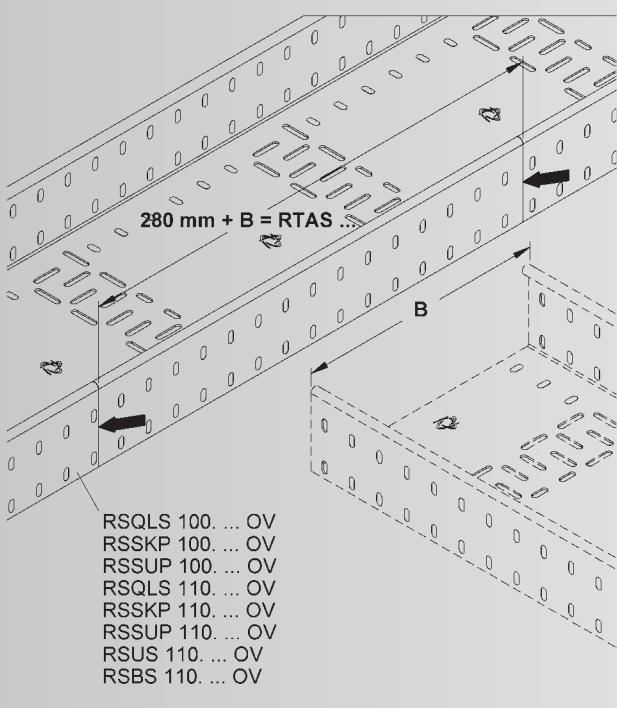
7.



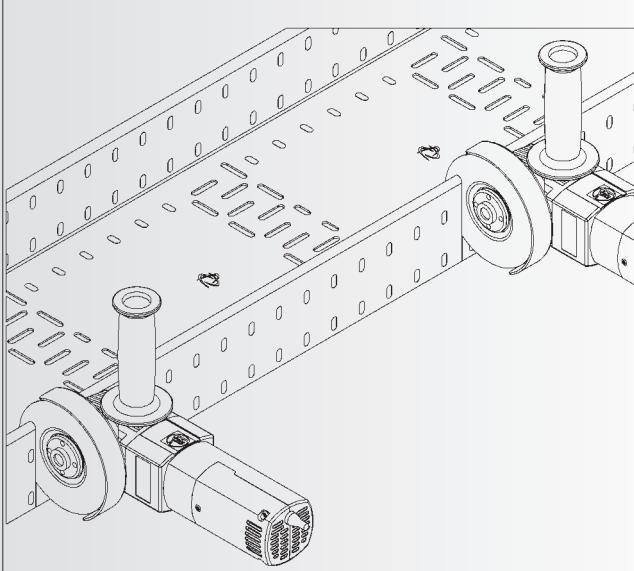
Installation Instructions

Extension horizontal tee RTAS... for walkable cable tray system

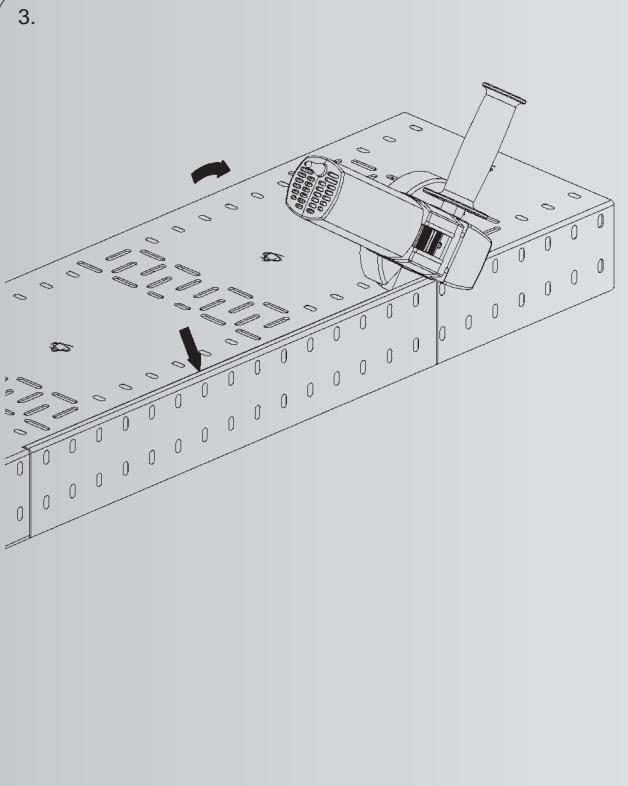
1.



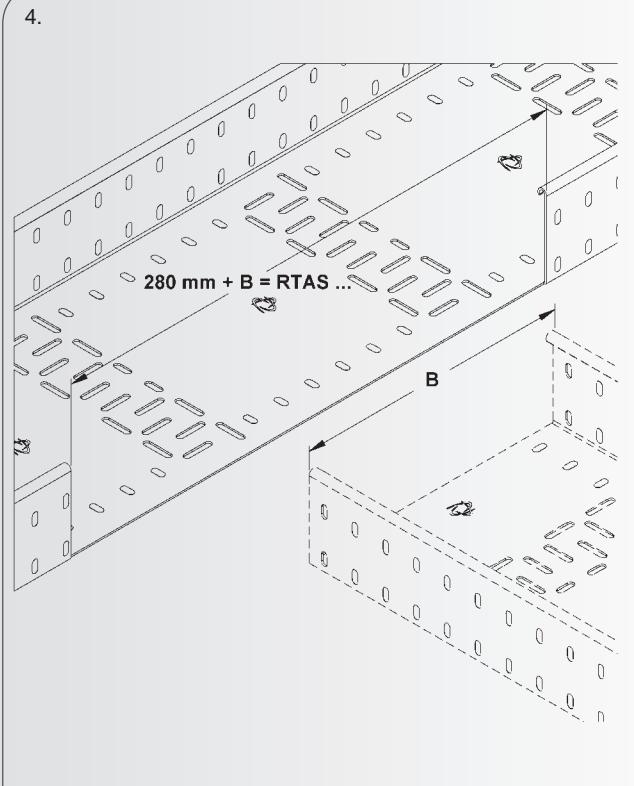
2.



3.



4.

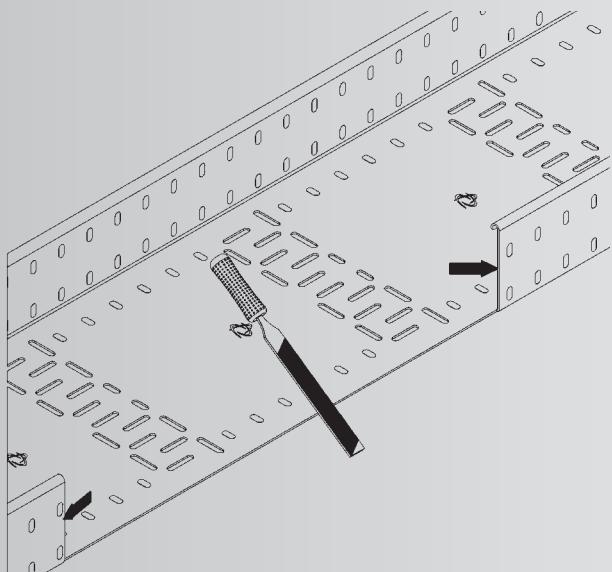


INFORMATION

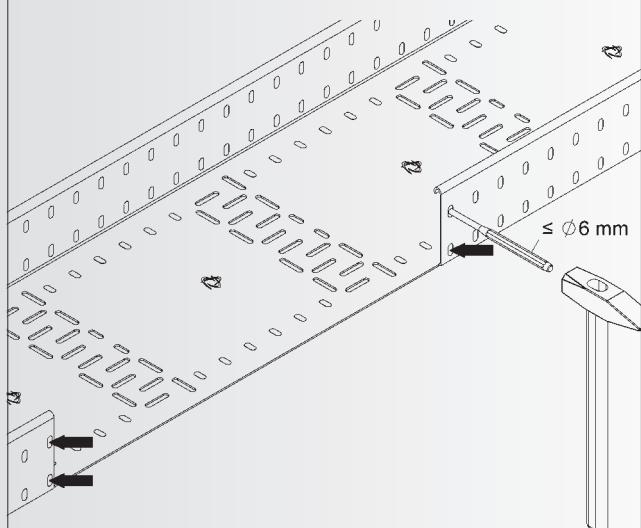
Installation Instructions

Extension horizontal tee RTAS... for walkable cable tray system

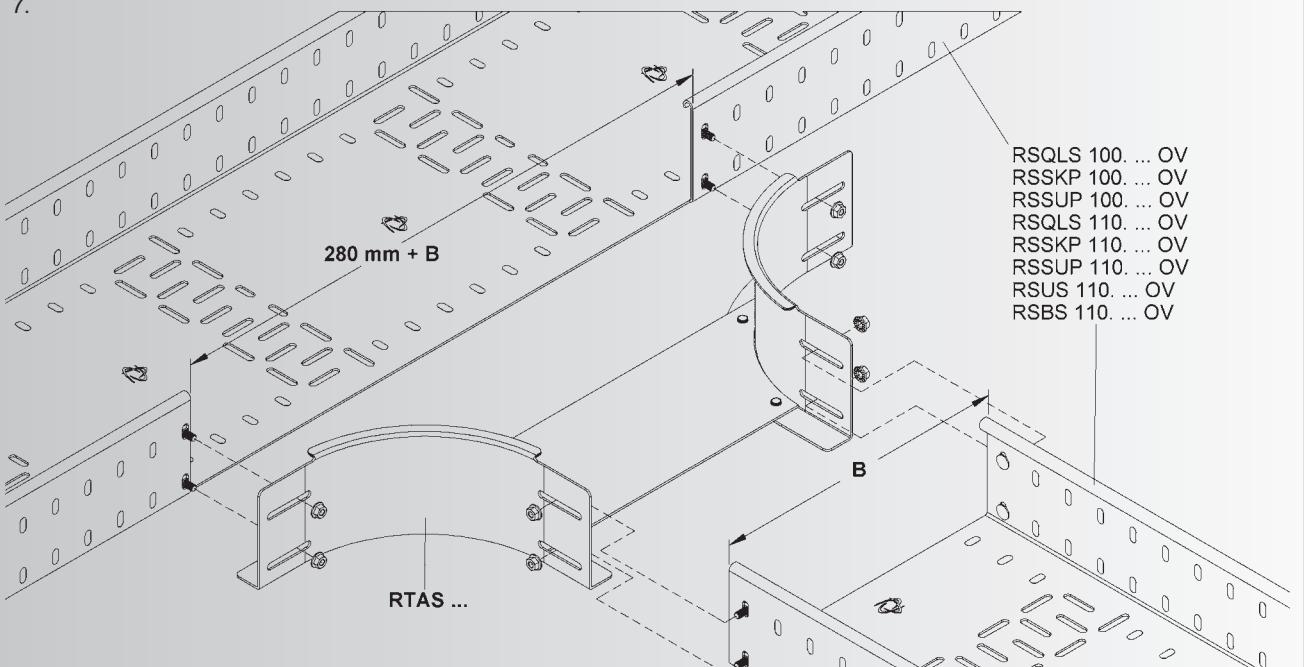
5.



6.



7.

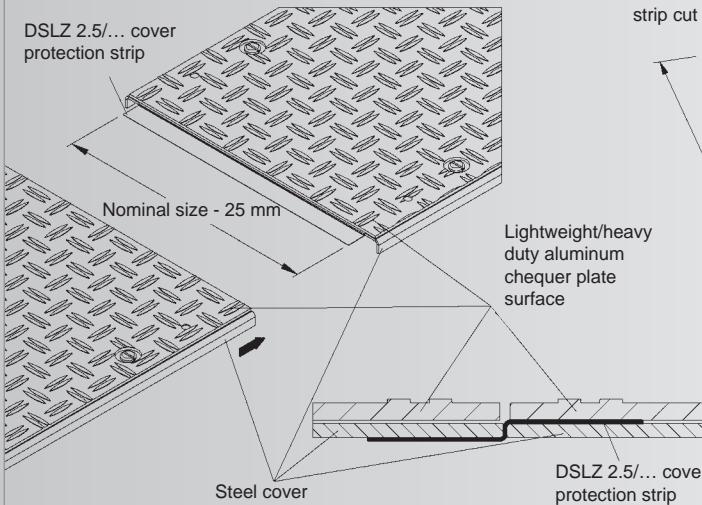


Installation Information

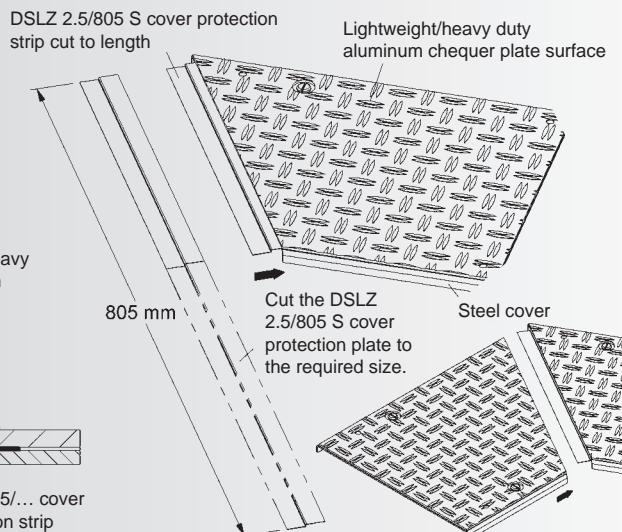
DSLZ 2.5/...

The **DSLZ 2.5/...** cover protection strip is used on steel covers with a lightweight and heavy duty aluminum chequer plate surface. It is fitted on one side between the steel cover and the riveted aluminum chequer plate surface. The connecting cover is placed on top of the cover protection strip.

1. Right-angled joints are formed using cover protection strips of fixed lengths.



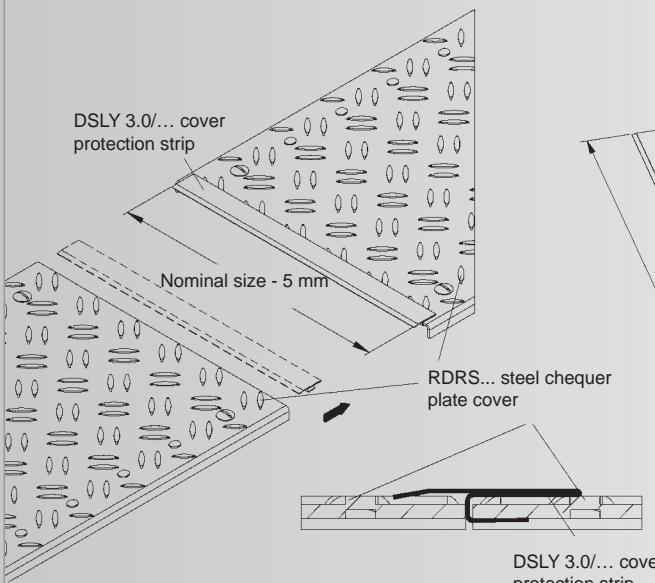
2. Horizontal angled cuts up to 45° are formed with the **DSLZ 2.5/805 S** cover protection strip. This is cut to the required size and inserted as shown in the diagram.



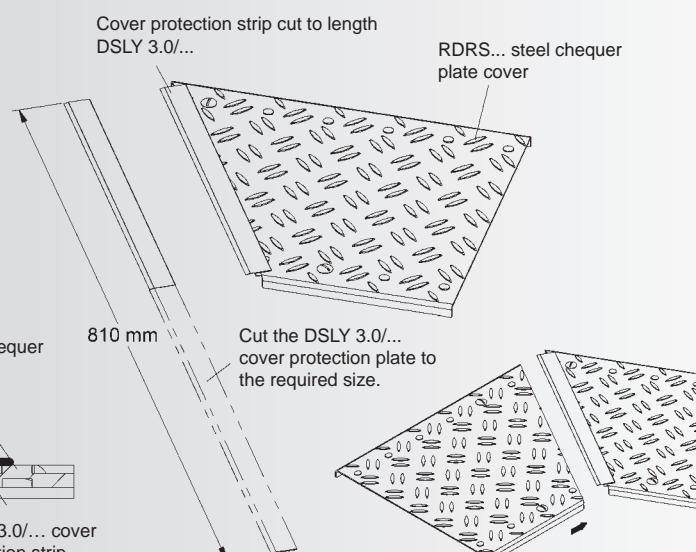
DSLY 3.0/...

The **DSLY 3.0/...** cover protection strip is used with the **RDRS...** steel chequer plate cover. It is fitted using the insertion slots on the cover protection plate that are inserted onto the cover. The connecting cover is slid up to the insertion slots and underneath the edge.

1. Right-angled joints are formed using cover protection strips of fixed lengths.



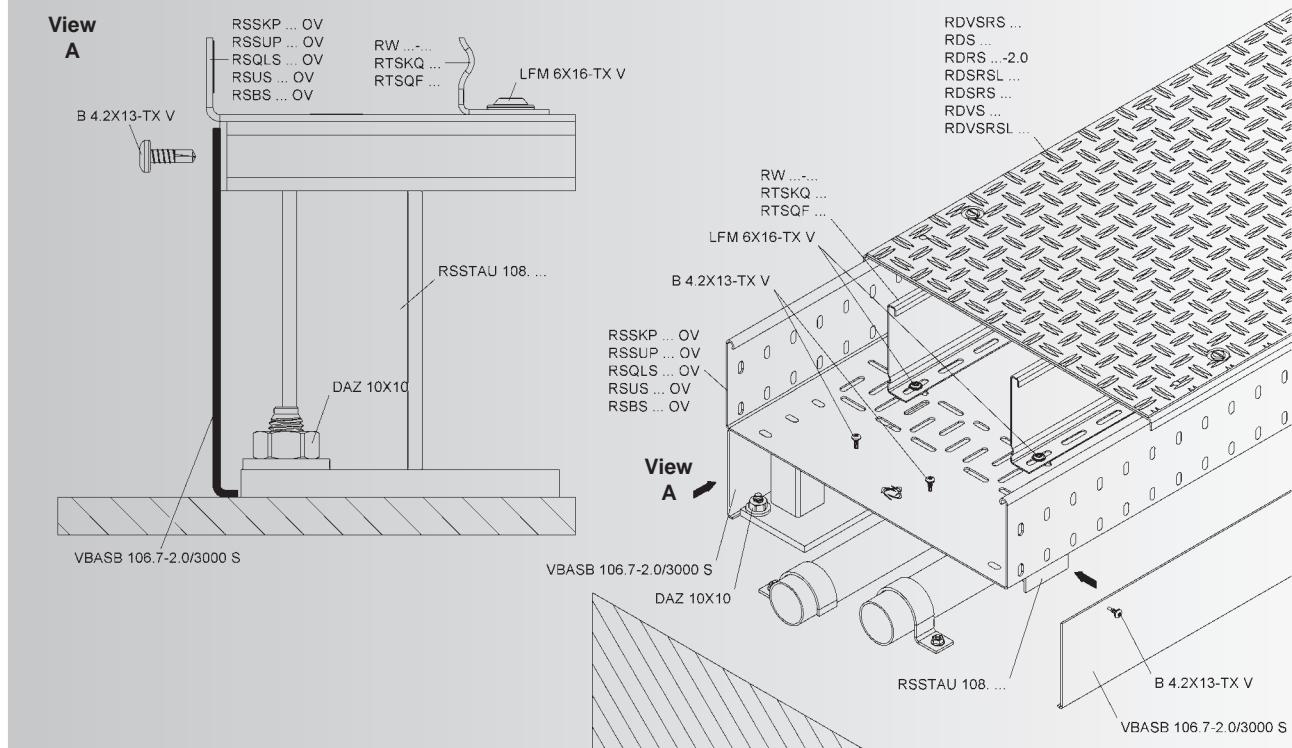
2. Horizontal angled cuts up to 45° are formed with the **DSLY 3.0/810 S** cover protection strip. This is cut to the required size and inserted as shown in the diagram.



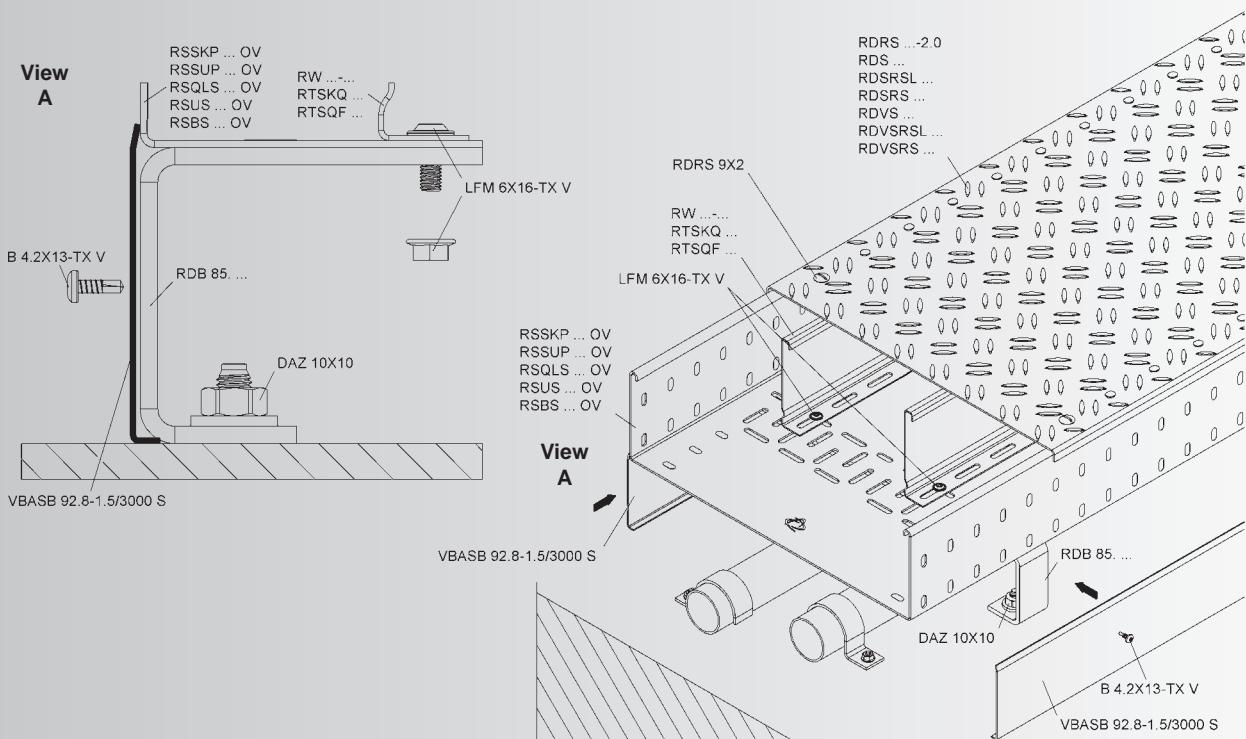
INFORMATION

Installation Information

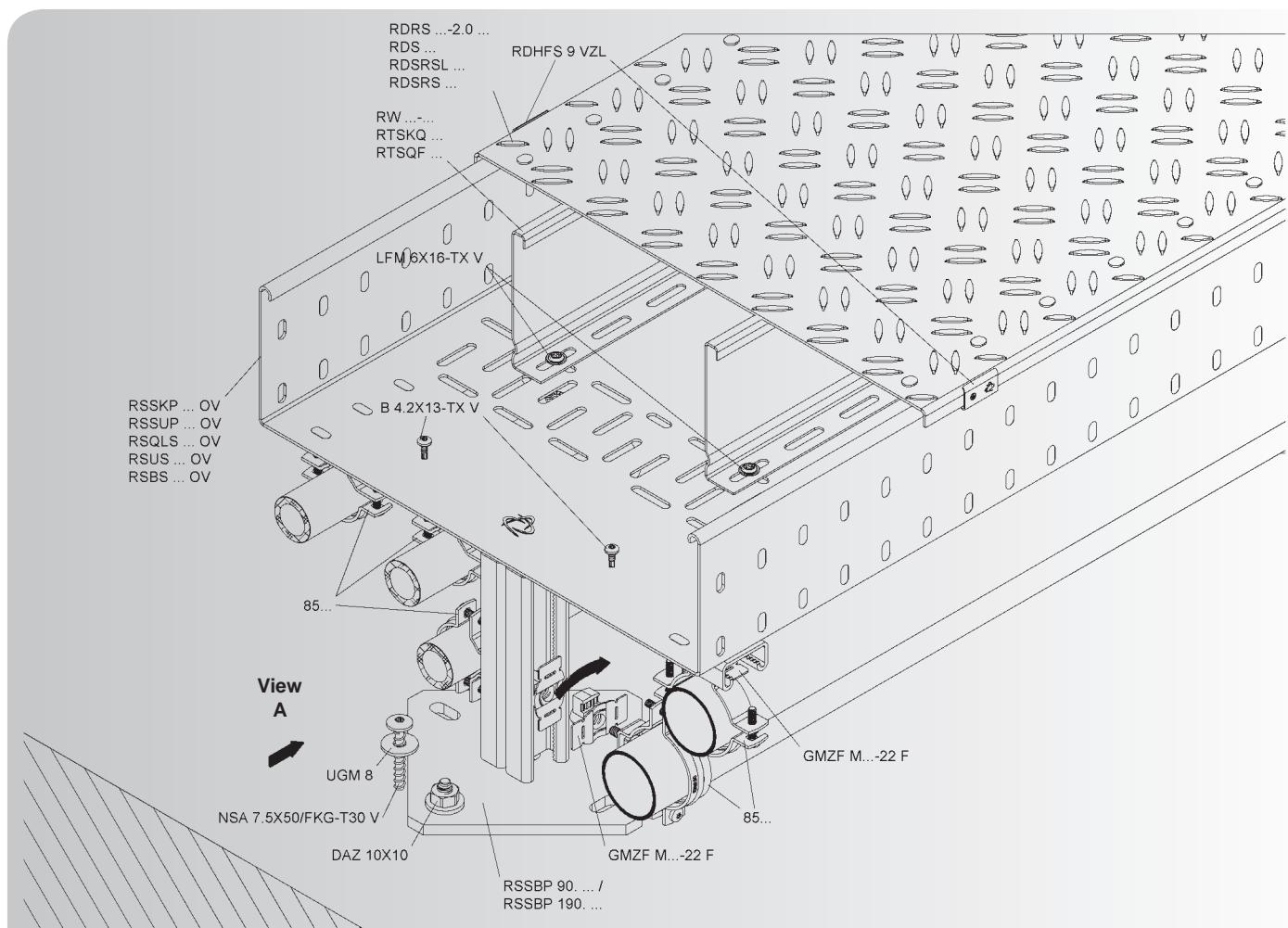
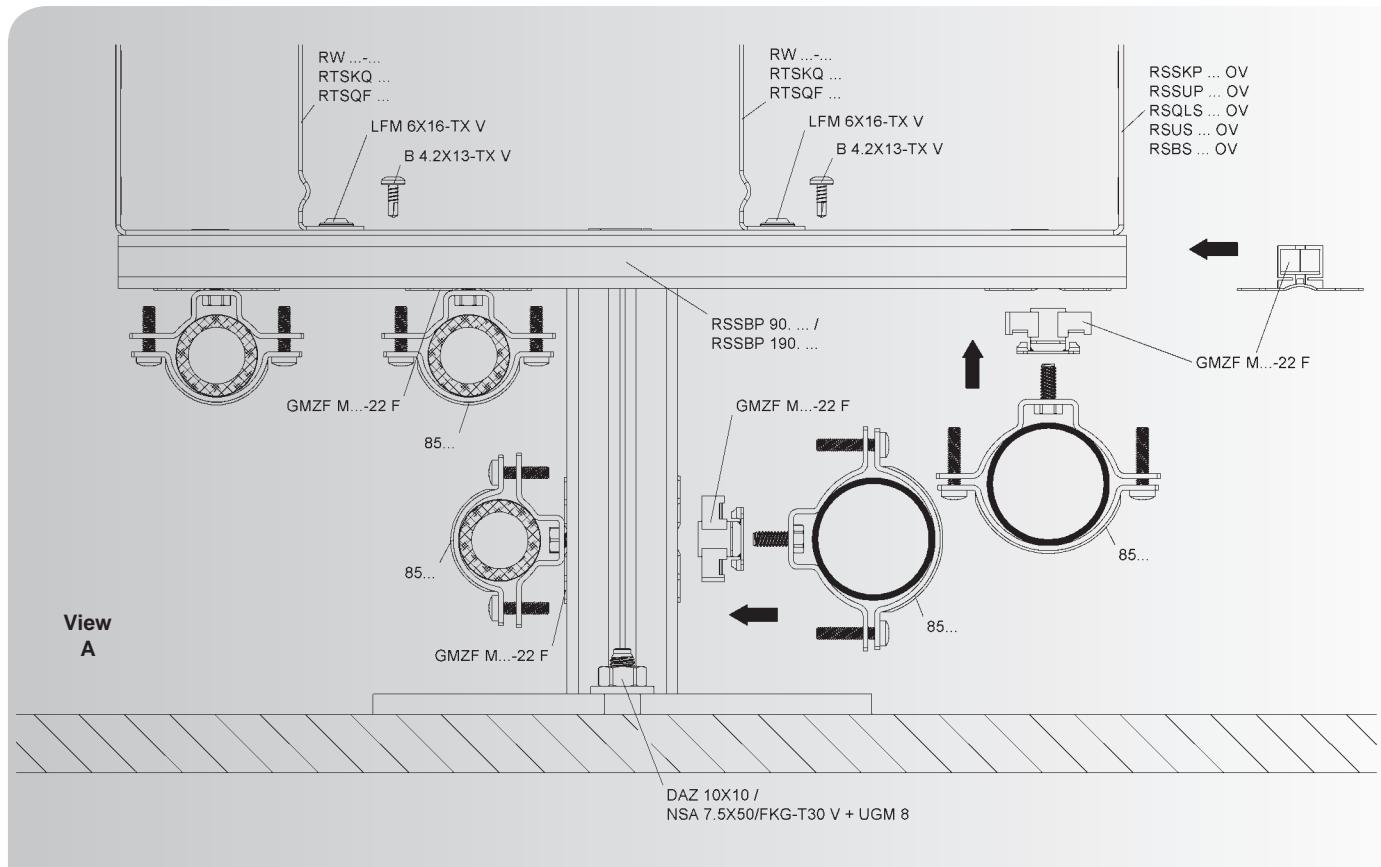
Elevated fixing of cable trays on the **RSSTAU 108...** floor stands **VBASB 106.7-2.0/3000 S** side skirting panels fitted to the heads of the floor stands using pan-head drilling screws not only act as a kick plate but also provide the supply lines with a homogeneous design.



The **VBASB 92.8-1.5/3000 S** side skirting panels are fitted to the **RDB 85...** tray spacer brackets with pan-head drilling screw on the side of each spacer bracket. The slight bend in the skirting panel, which lies flush to the side panel of the cable tray, and the adjoining fold at the foot of the bracket ensure that the skirting panels are stable and provide protection against dirt and hazardous situations.



Installation Information

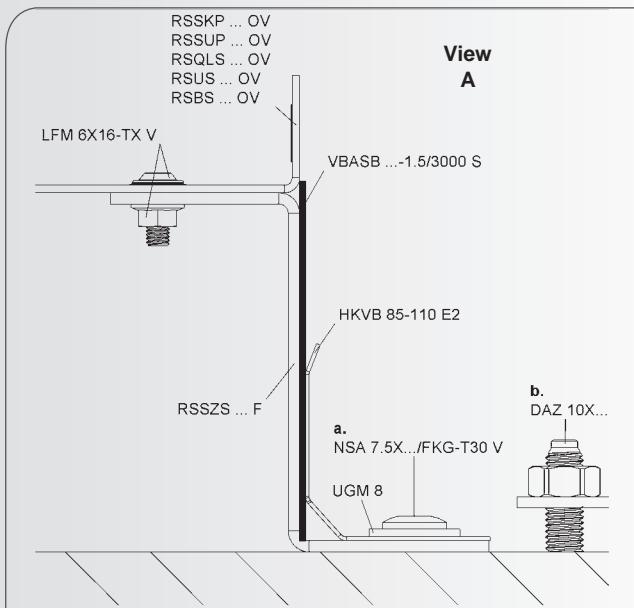
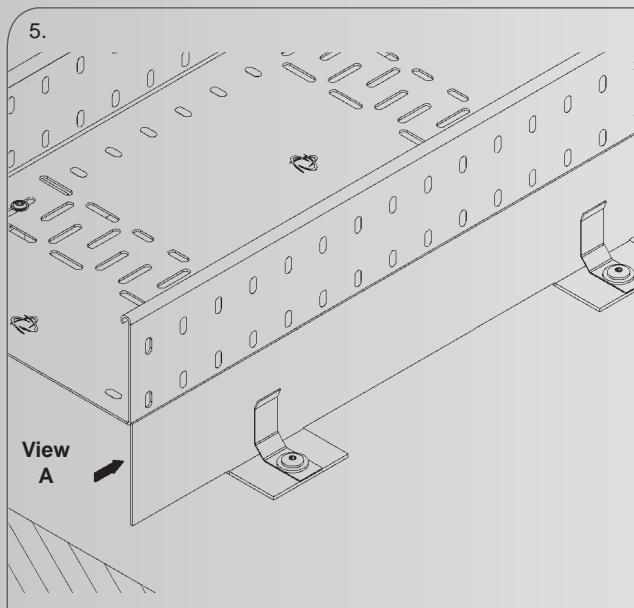
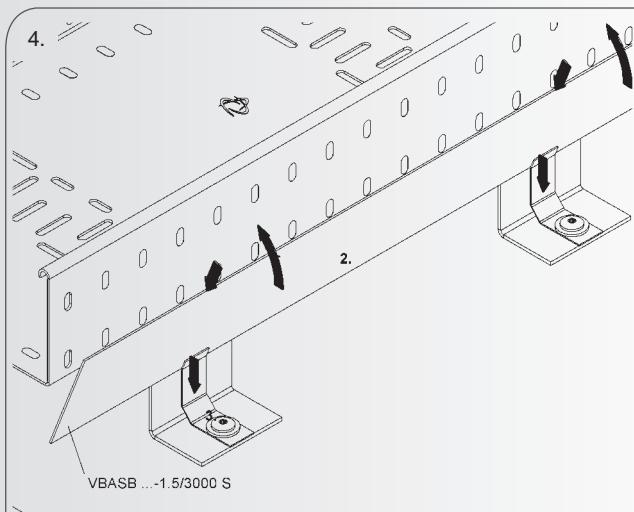
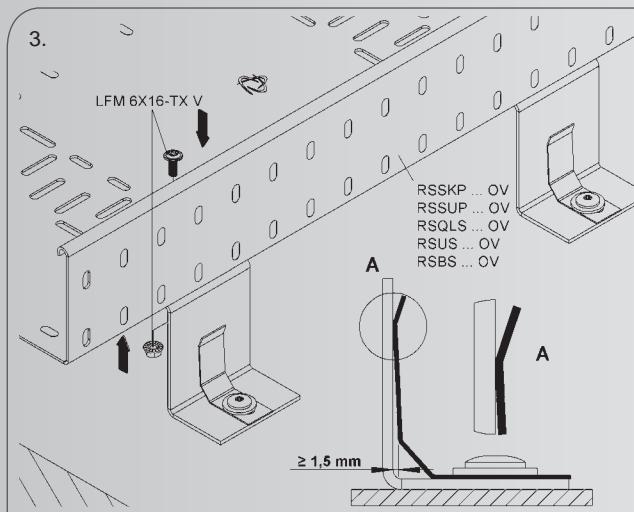
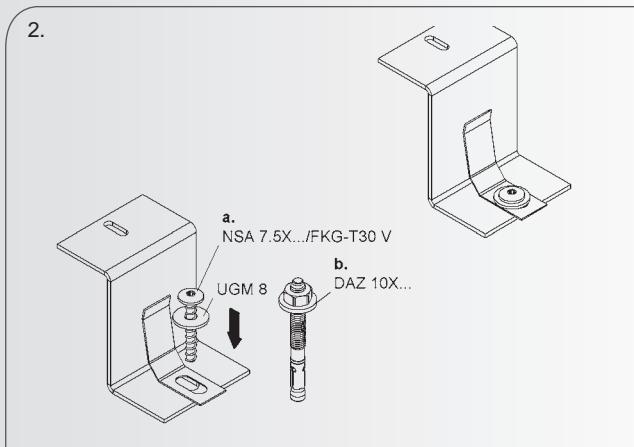
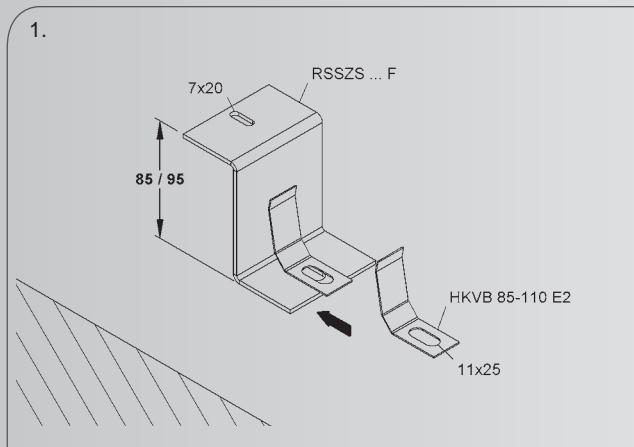


INFORMATION

Installation Instructions

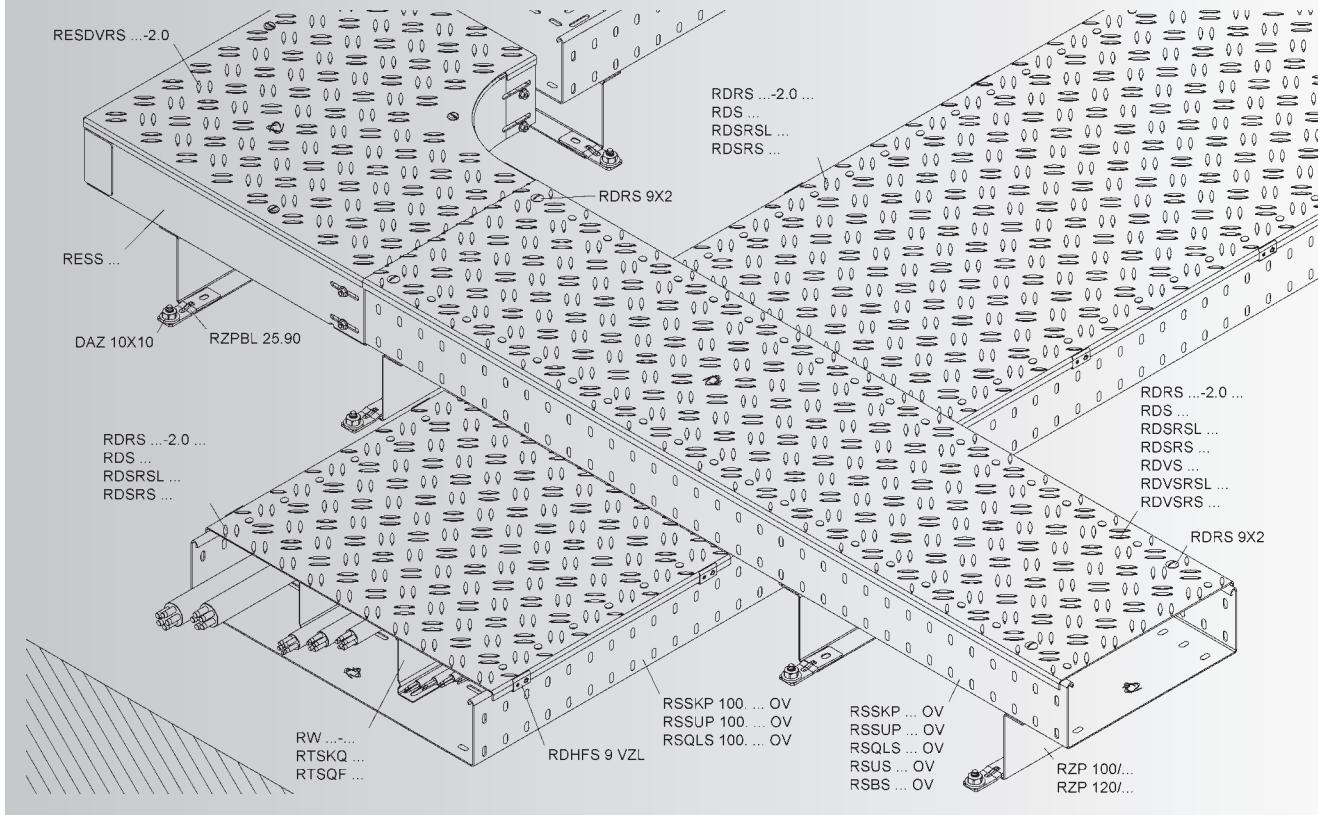
VBASB...

Floor mounting bracket VBASB... for side cladding... with retaining clip HKVB 85...
for an elevated cable tray installation RSSKP... OV of... on Z-distance floor supports RSSZS...



Installation Information

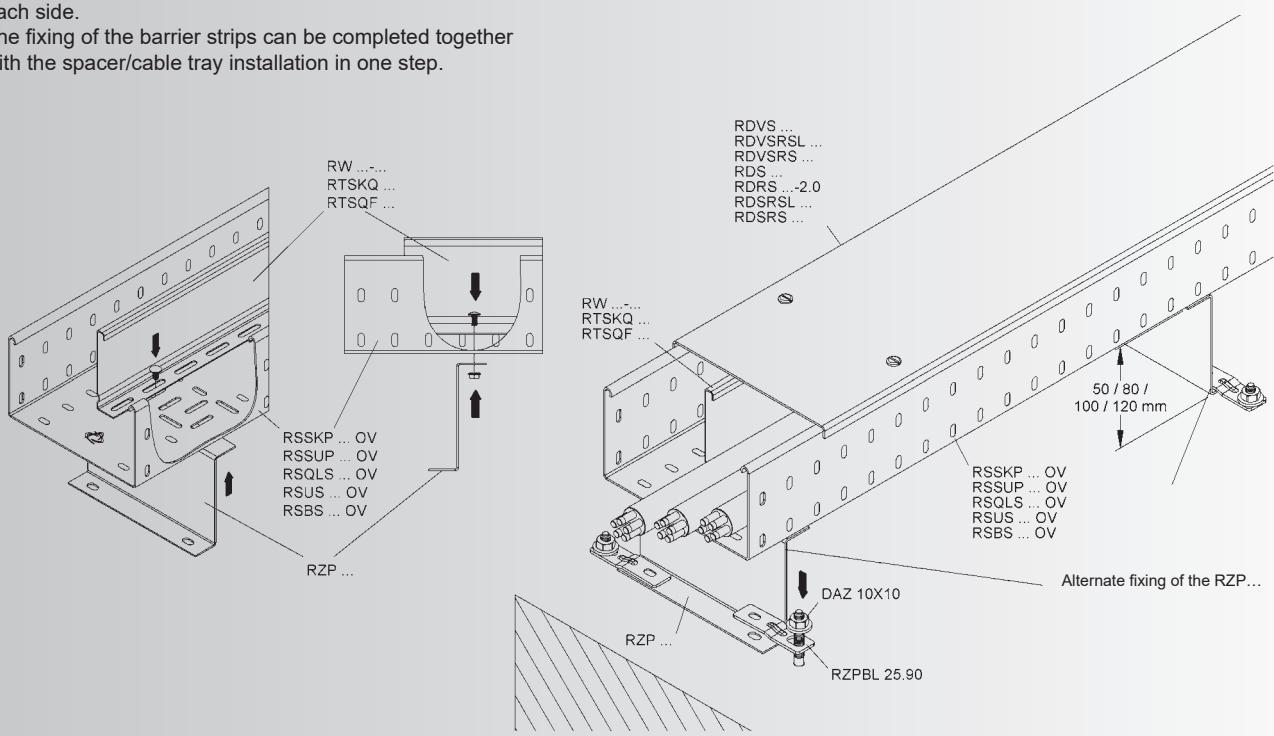
Floor fixing of a **RSSKP 100...** OV walkable cable tray with a corresponding number of barrier strips to support the cover and fixing a walkable cable tray elevated as an “overpass” on **RZP 100/...** spacers. In new or existing plants, elevated fixing enables the walkable supply trays to be laid at different levels so that they can cross over each other.



Additional or subsequent support for already installed cable trays by clamping the **RZP**... using **RZPBL 25.90**.

1. Fixing the RZP... spacer(s) to the cable tray.
The components should be alternately fitted here on each side.
The fixing of the barrier strips can be completed together with the spacer/cable tray installation in one step.

2. Fixing the spacers in place using RZPBL 25.90 floor brackets.

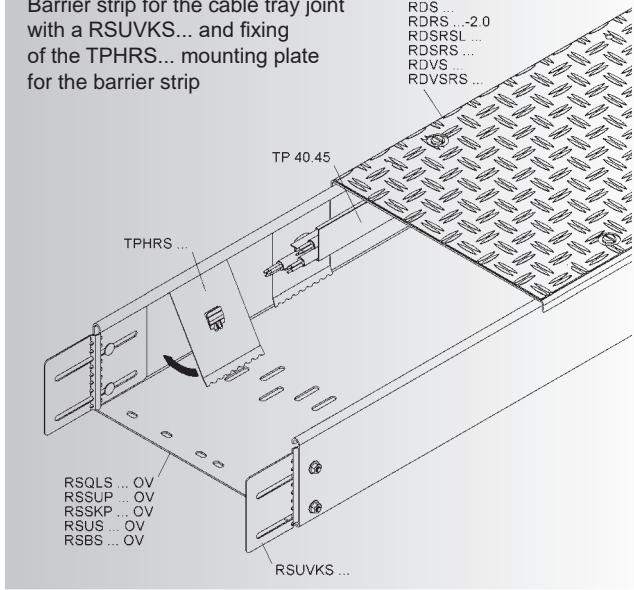


INFORMATION

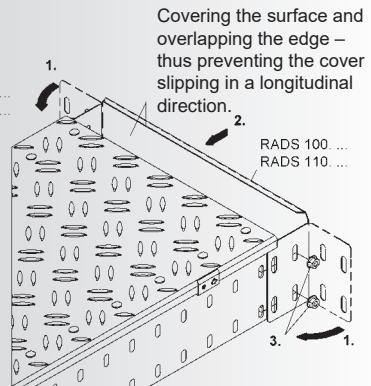
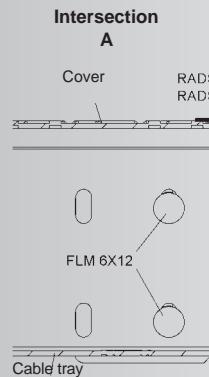
Installation Information

Removing a section of the TP 40.45

Barrier strip for the cable tray joint with a RSUVKS... and fixing of the TPHRS... mounting plate for the barrier strip

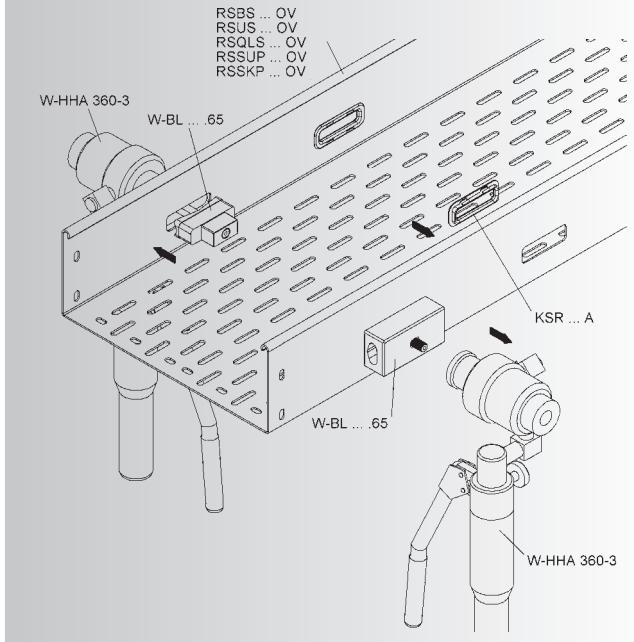


RADS... blind ends

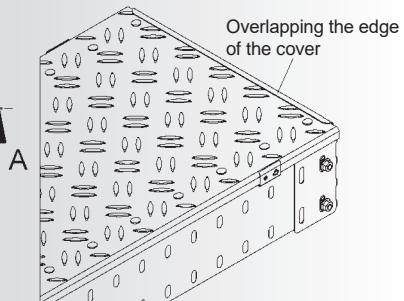
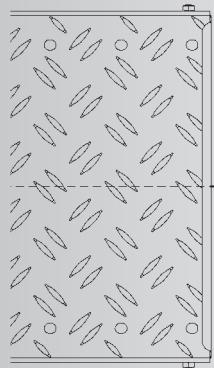


Creating an additional cable opening in walkable cable trays

up to a material thickness of 2 mm using practical and professional tools from Niedax.



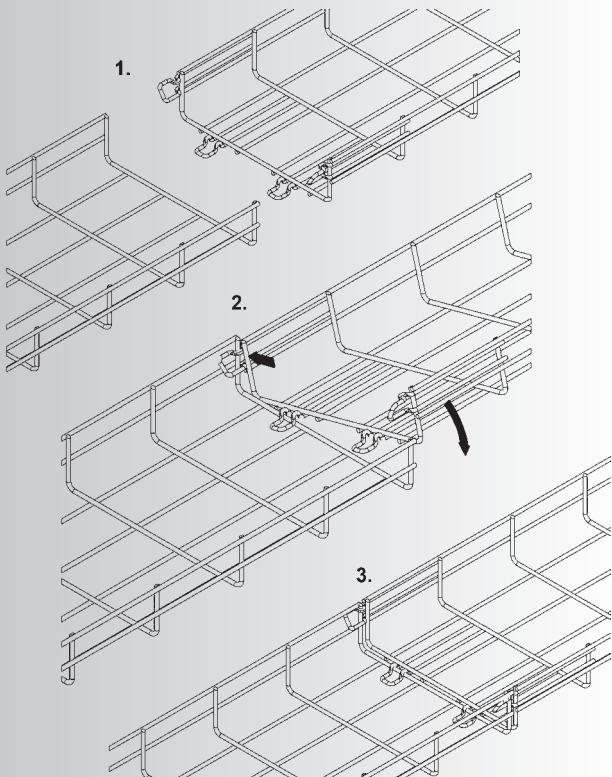
The RADS... blind ends with cover locking are suitable for all covers for walkable cable tray systems.



Installation Instructions

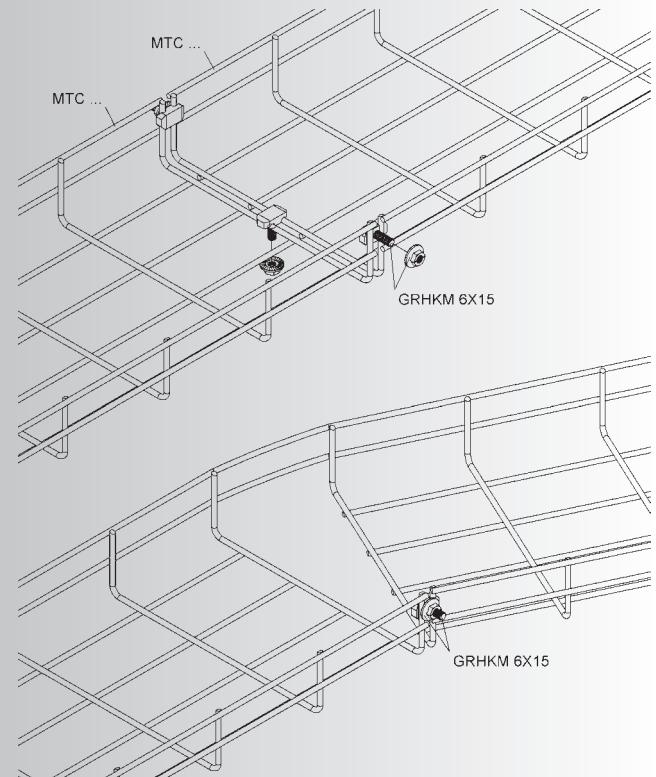
Installation Instructions for MTC cable trays ...

1. Push both ends of the MTC ... together.
2. Slide the side clamp diagonally onto the cross wire.
3. Clip in opposite side - finished.



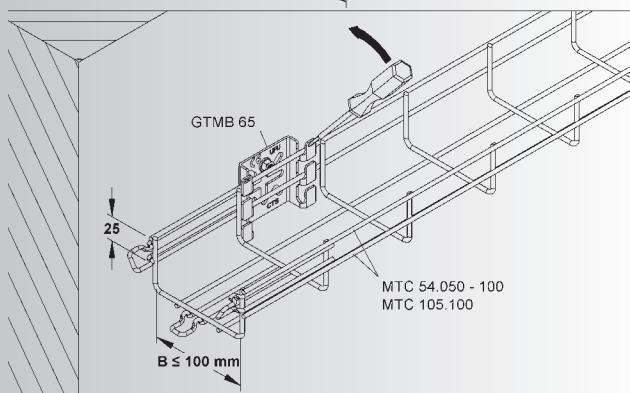
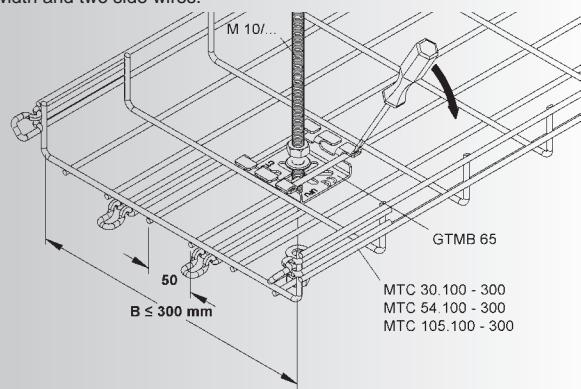
Universal Splice Plate GRHKM 6X15

This universal splice plate is one way of joining individual shorter parts or to manufacture bends.



Installation Bracket GTMB 65

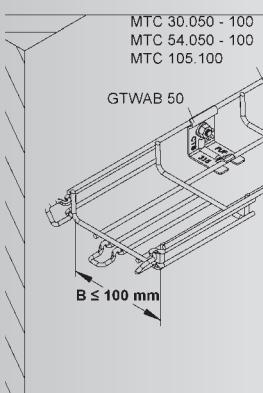
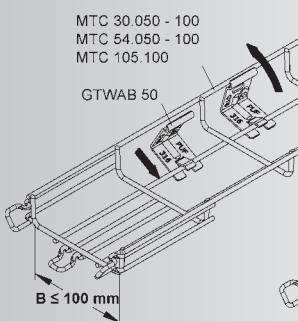
1. GTMB 65 is used for centered hanging the wire mesh tray with threaded rod, up to a width of 300 mm.
2. GTMB 65 is also used as a wall bracket for trays with up to 100 mm width and two side wires.



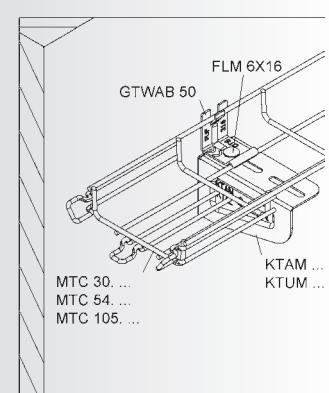
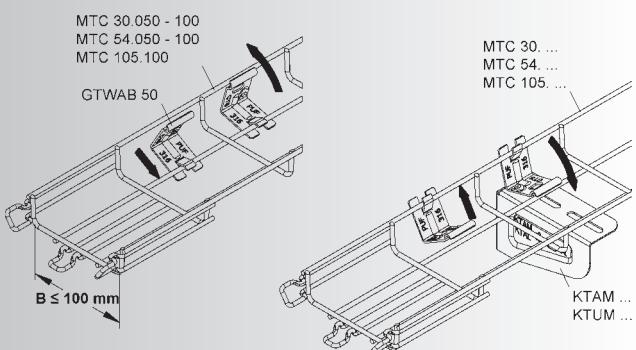
Wall and Bracket Mounting GTWAB 50

1. GTWAB 50 is used as a wall bracket up to trays with 100 mm width.
2. GTWAB 50 is also used for fixing the wire mesh tray onto a cantilever arm bracket KTAM/KTUM with nut & bolt.

wall mounting



bracket mounting

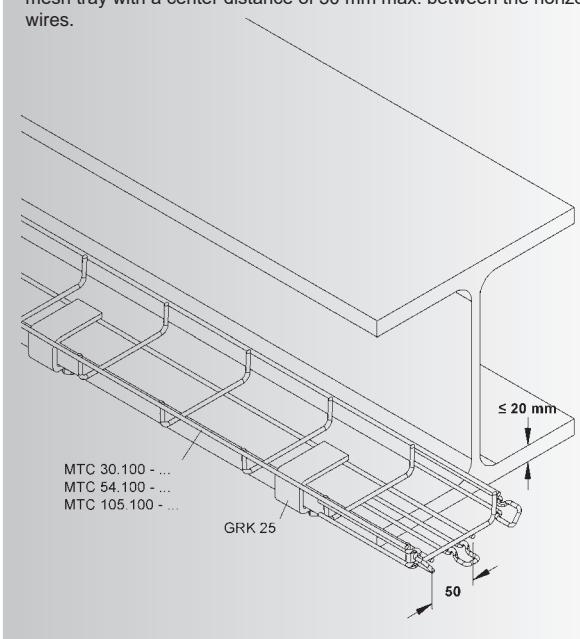


INFORMATION

Installation Instructions

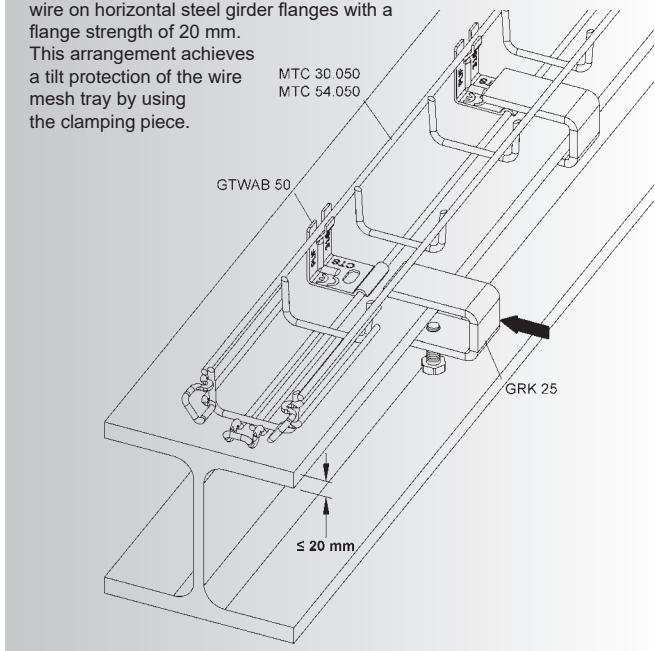
Clamping Piece GRK 25

For installation on horizontal steel girders with a maximal thickness of 20 mm. The clamping is effected by two floor side wires of the cable mesh tray with a center distance of 50 mm max. between the horizontal wires.



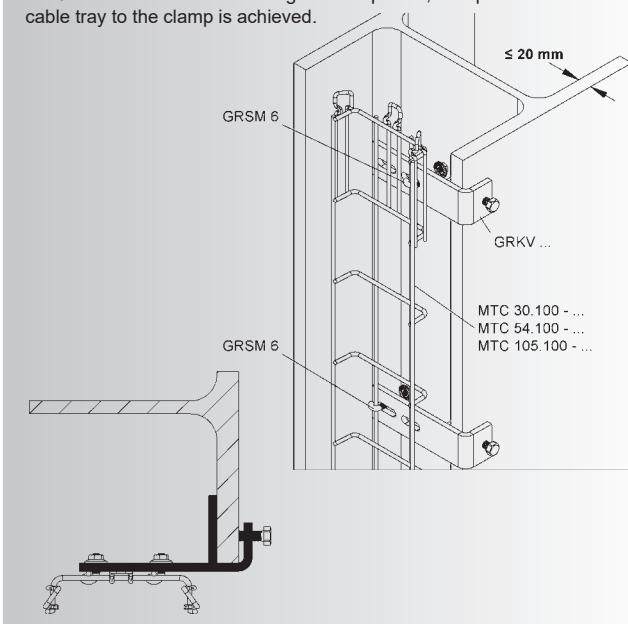
The combination of cable mesh tray wall mounting and boom mounting **GTWAB 50** and the clamping piece **GRK 25**, a clamping assembly of wire mesh trays **MTC 30.050** and **MTC 54.050** is possible with only one floor side wire on horizontal steel girder flanges with a flange strength of 20 mm.

This arrangement achieves a tilt protection of the wire mesh tray by using the clamping piece.



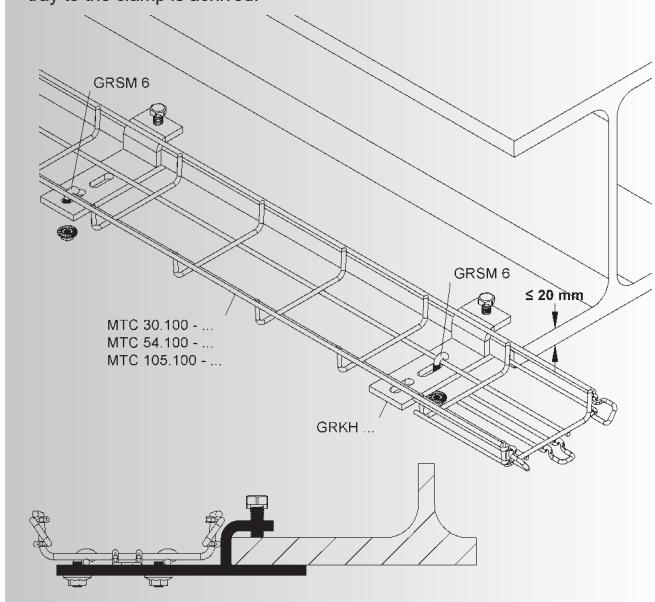
Fixing Clamp vertical GRKV...

In order to install vertical steel girder flanges with a maximal strength of 20 mm. Due to mutual bracing of the clip bolts, a tilt protection of the cable tray to the clamp is achieved.

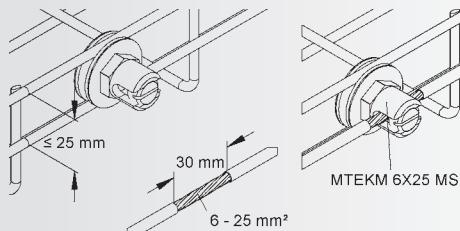
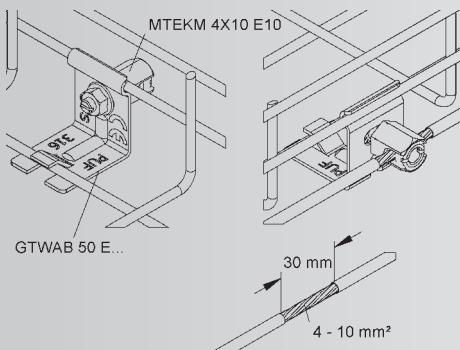


Fixing Clamp horizontal GRKH...

In order to install horizontal steel girder flanges with a maximal strength of 20 mm. Due to a mutual bracing of the clip bolts, a tilt protection of the cable tray to the clamp is achieved.



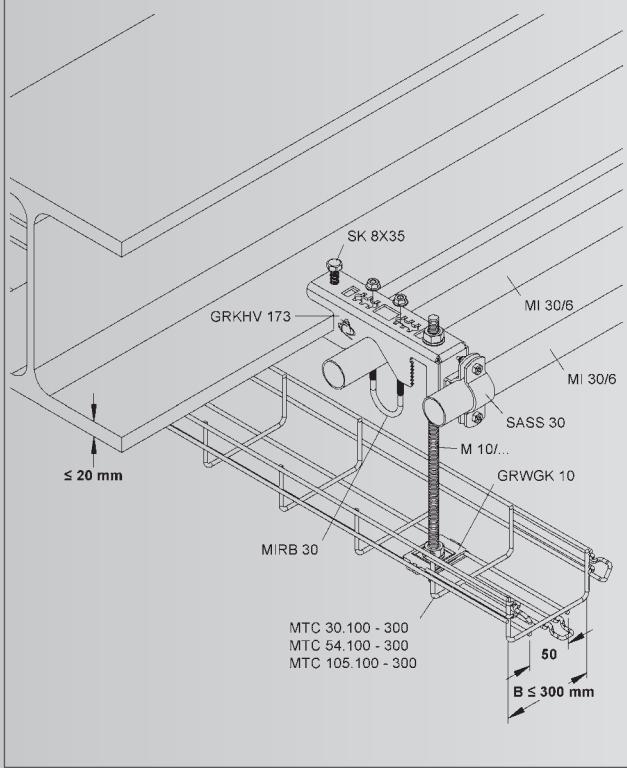
Ground Terminal MTEKM...



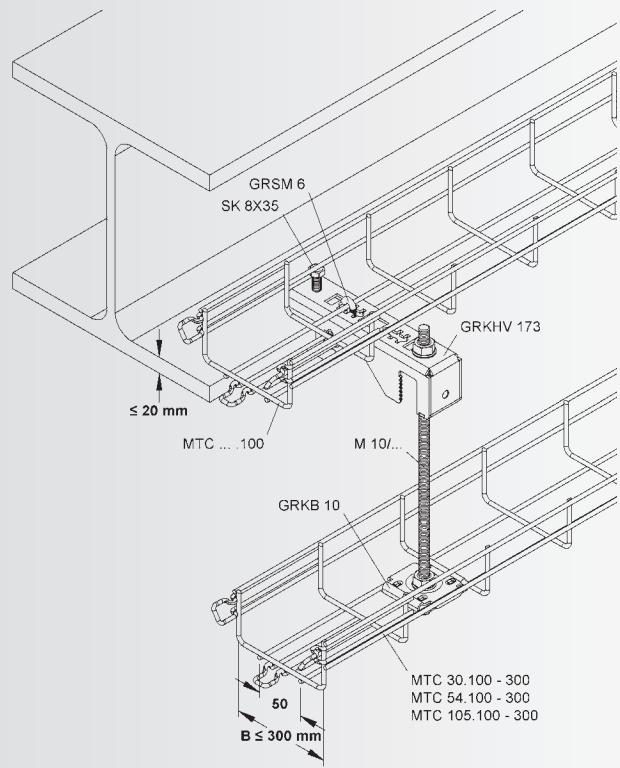
Installation Instructions

Fixing clamp GRKHV...

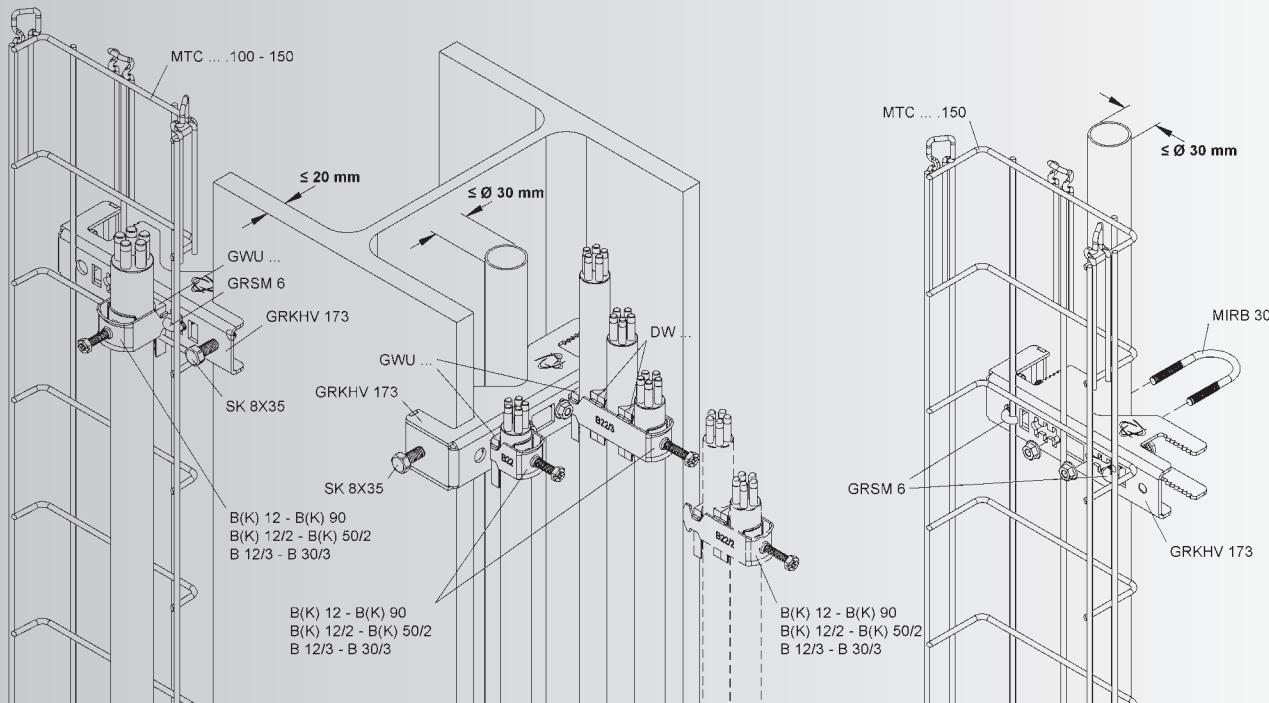
For horizontal mounting, an additional suspension can be made by means of threaded rod M 10/... at the barrier strip clamp tip through the Ø 11 mm hole. A SASS 30 screw distance clamp can also be attached at the front.



An alternating arrangement of the hook head bolt guarantees a secure fastening of the wire mesh tray to the fixing clamp for wire mesh tray. Here, too, a suspension at the barrier strip clamp tip can be made using threaded rod M 10/... .



Through outlets in the horizontal support surface, it is possible to install up to 4 clamps B(K) 12 - 90 (depending on size) in register installation. Rectangular recesses in the legs of the terminal also allow the installation of cable protection tubes ≤ Ø 30 mm.

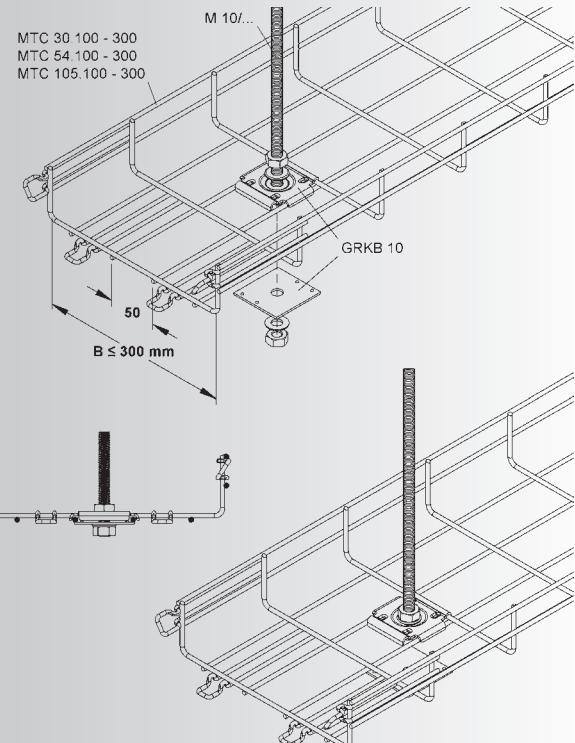


INFORMATION

Installation Instructions

Center Hanger for Threaded Rod GRKB 10

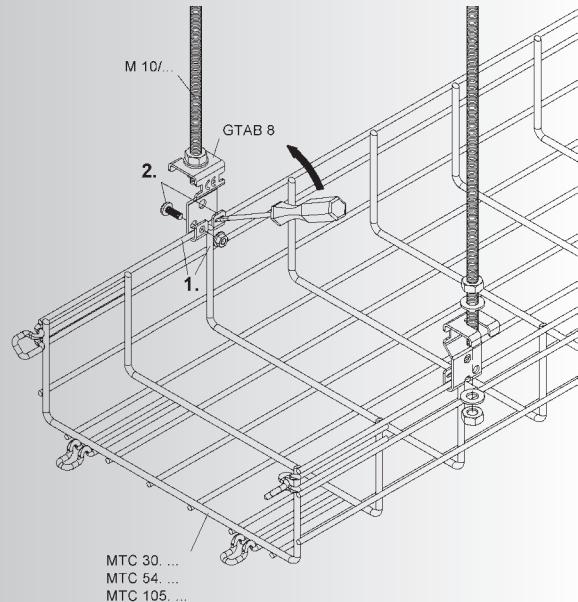
GRKB 10 is used for centred hanging of the wire mesh tray with threaded rod, up to a width of 300 mm.



Trapeze Hanger for Wire Mesh Tray GTAB 8

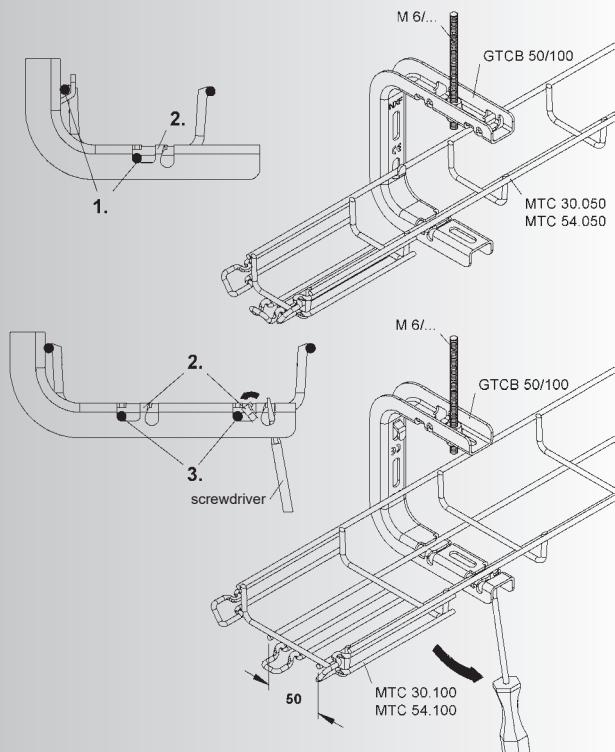
To ensure a proper fixing lengthwise the GTAB 8 needs to be mounted at a cross-section of length and cross wires meet (1).

By bending the bottom parts with a screwdriver or fixing with bolt and nut the wire mesh tray cannot slide out.



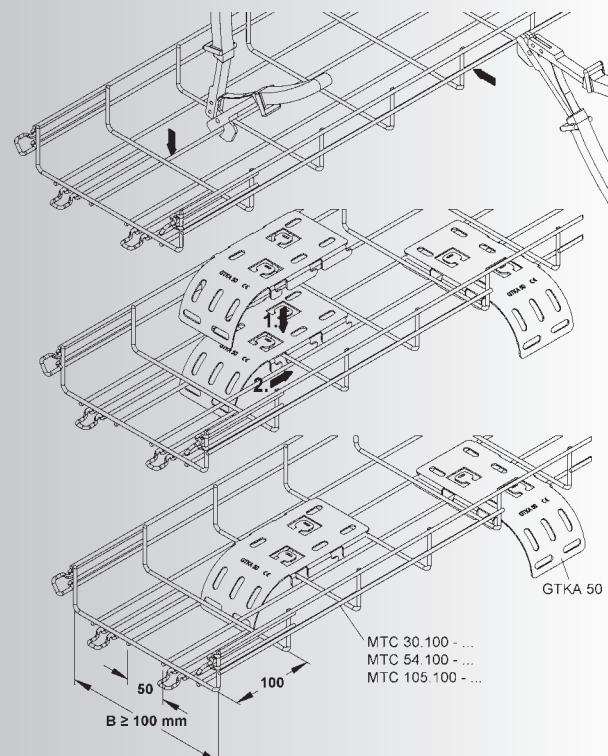
Center Support for Wire Mesh Tray GTCB 50/100

1. Usage for MTC 30.050 and MTC 54.050, the side wire hooks into the vertical flap of the GTCB 50/100 while the bottom wire sits into the groove of the short arm. Secured anchorage with a push of a screwdriver.
2. To prevent levering out, turn the bracket with a screwdriver.
3. Both longitudinal floor units of the MTC 30.100 / MTC 54.100 are required for anchoring to the longer shanks of the central suspension. Fold down both stirrups (2.) to fix them in place.



Cable Drop Out for Wire Mesh Tray GTKA 50

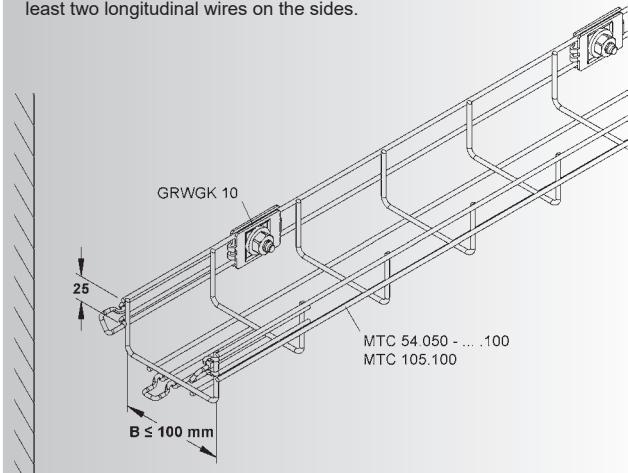
For wire mesh trays with a cross wire spacing of 100 mm and/or a longitudinal wire spacing of 50 mm, a width ≥ 100 mm and a max. wire diameter of 6 mm.



Installation Instructions

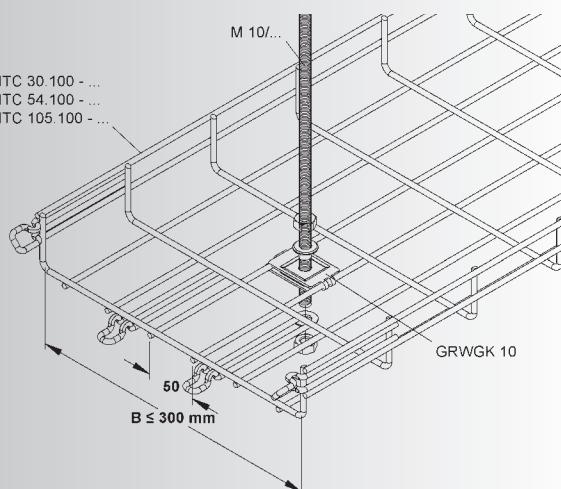
Wire Mesh Mounting Bracket GRWGK 10

The fixing clamp is suitable for wire mesh trays with wire thicknesses of 3 mm - 6 mm and a longitudinal wire spacing of max. 50 mm.
 1. For wall mounting of mesh cable trays up to max. 100 mm width with at least two longitudinal wires on the sides.



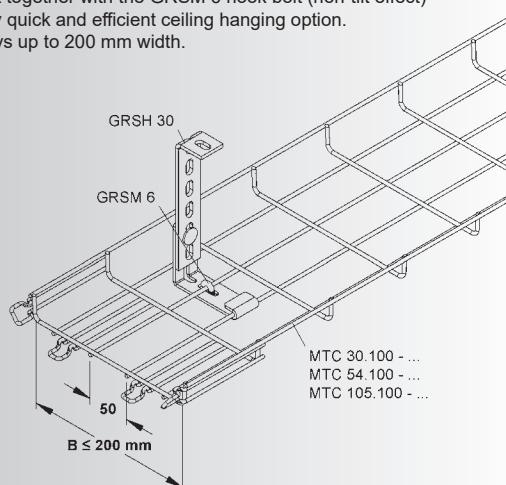
Wire Mesh Mounting Bracket GRWGK 10

3. GRWGK 10 can be used for hanging wire mesh trays up to 300 mm width and two bottom wires with a max. wire distance of 50 mm.



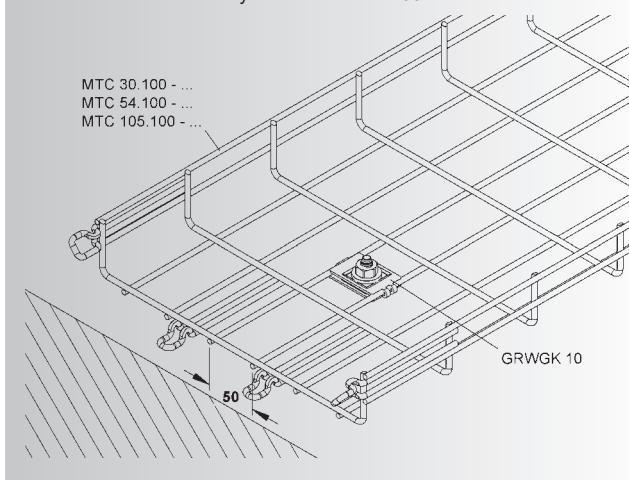
Hanger for Wire Mesh Tray GRSH 30

GRSH 30 is used for hanging wire mesh trays from the ceiling in the middle or left and right of the tray. There must be two bottom length wires and the distance between them must be max. 50 mm. This bracket together with the GRSM 6 hook bolt (non-tilt effect) offers a very quick and efficient ceiling hanging option. Ideal for trays up to 200 mm width.



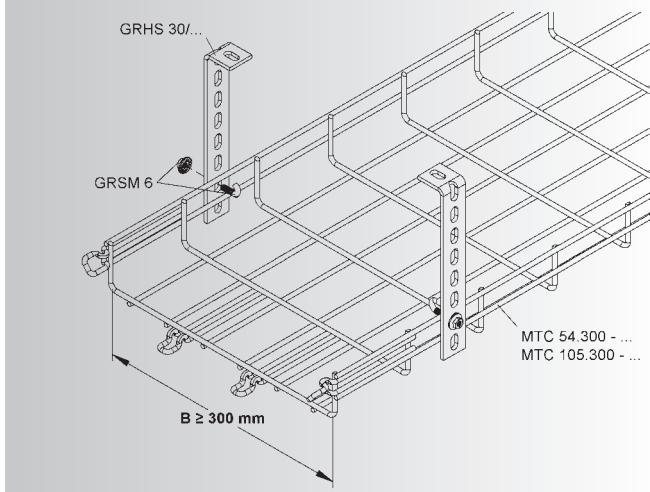
Wire Mesh Mounting Bracket 10

2. For the floor fixing of wire mesh trays with a central longitudinal floor wire spacing of max. 50 mm and at least two longitudinal wires. Suitable for wire mesh trays from a width of 100 mm.



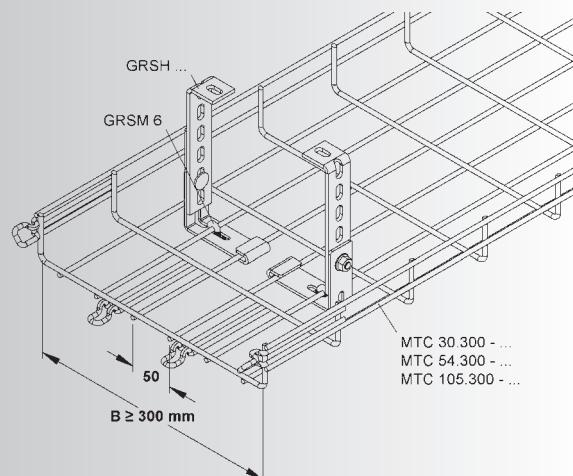
Overhead Hanger for Wire Mesh Tray GRHS 30/...

GRHS 30 is used for fixing wire mesh trays onto a wall or the ceiling. With a hook bolt GRSM 6 on the top side wire and the extra support on the bottom side wire mesh trays with bigger widths can be mounted solid. In particular, for wire mesh trays ≥ 300 mm.



Hanger for Wire Mesh Tray GRSH 30

For trays with widths ≥ 300 mm you can use the GRSH 30 as shown below. You can use the wire mesh trays in a staggered formation also. Ideal for trays ≥ 300 mm.

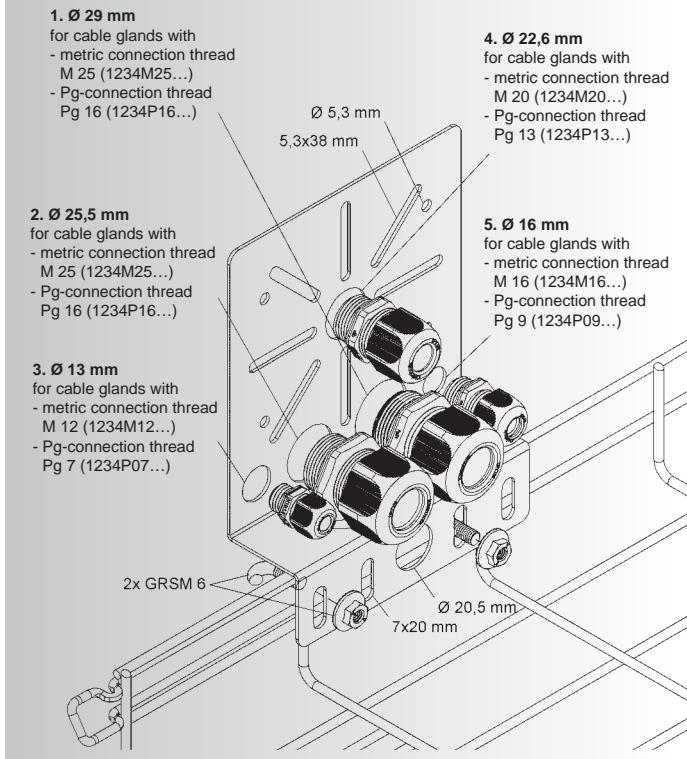


INFORMATION

Installation Instructions

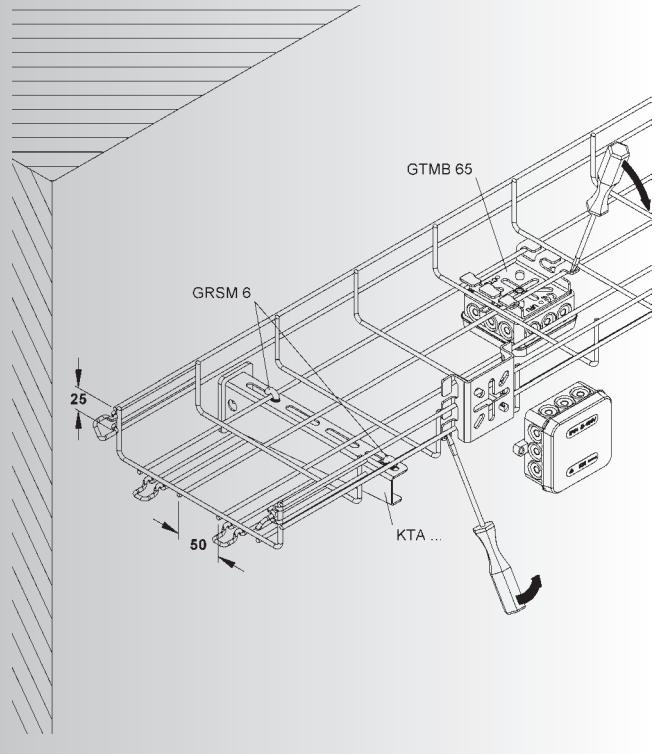
Mounting Plate RMP 130

For the attachment of junction and distribution boxes or screwed cable glands on cable trays and cable ladders as well as for the installation at cable trays with at least two lateral line wires.



J-Hook Bolt GRSM 6

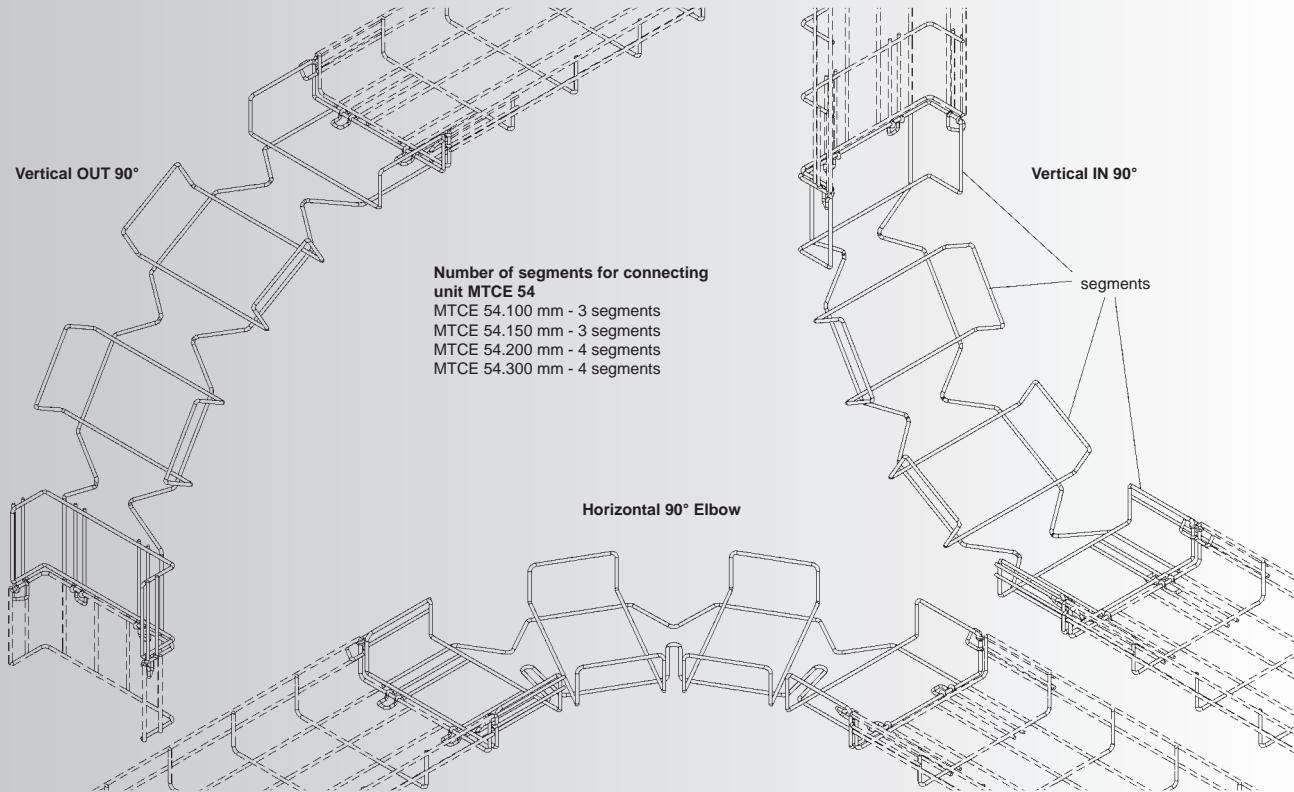
The MTC... mesh cable trays are fastened to the KTA... boom with at least 2 longitudinal floor wires using the GRSM 6 hook bolt. On KTA... brackets mounted horizontally in the longitudinal direction, the hook bolts can be mounted alternately for fastening. Application examples for the mounting bracket GTMB 65.



Elbow 90°

One Part – 3 different bends

The Elbow 90° is a multifunctional connecting unit used to form vertical and horizontal bends with various radii.

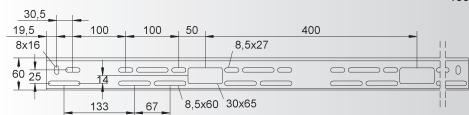


Installation Information

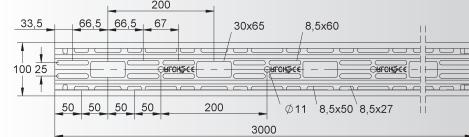
RLCI 60...

100 mm

Siderail Pattern

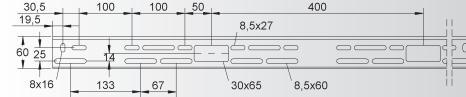


Bottom Pattern

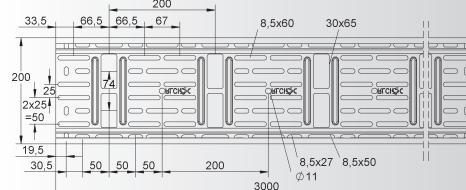


200 mm

Siderail Pattern

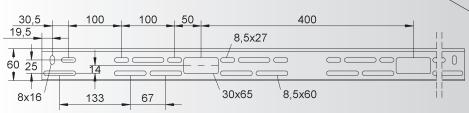


Bottom Pattern

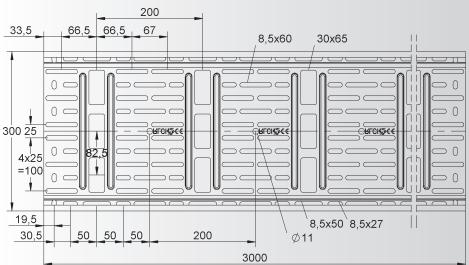


300 mm

Siderail Pattern

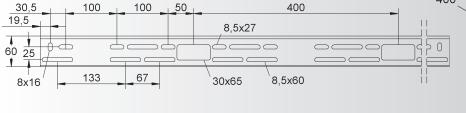


Bottom Pattern

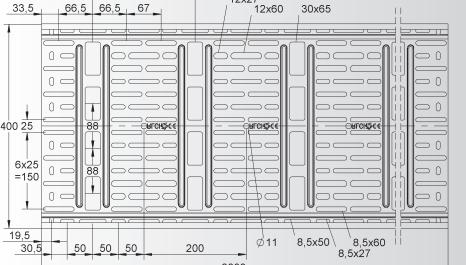


400 mm

Siderail Pattern

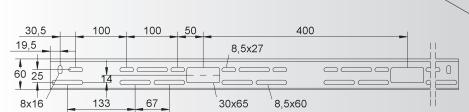


Bottom Pattern

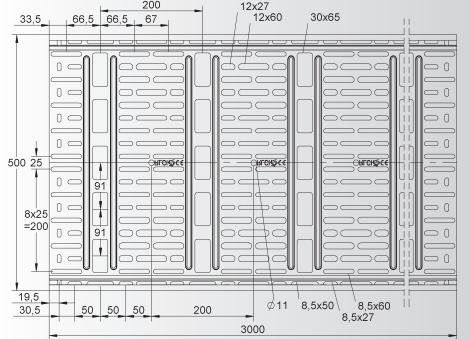


500 mm

Siderail Pattern

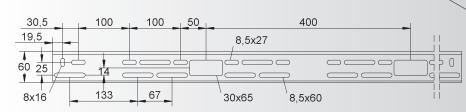


Bottom Pattern

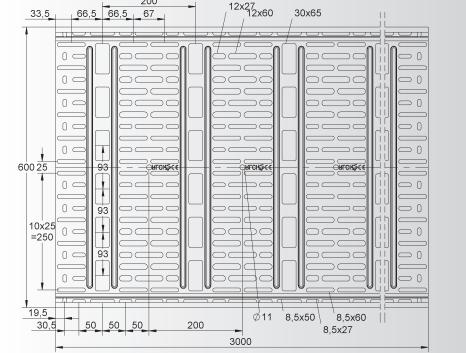


600 mm

Siderail Pattern



Bottom Pattern

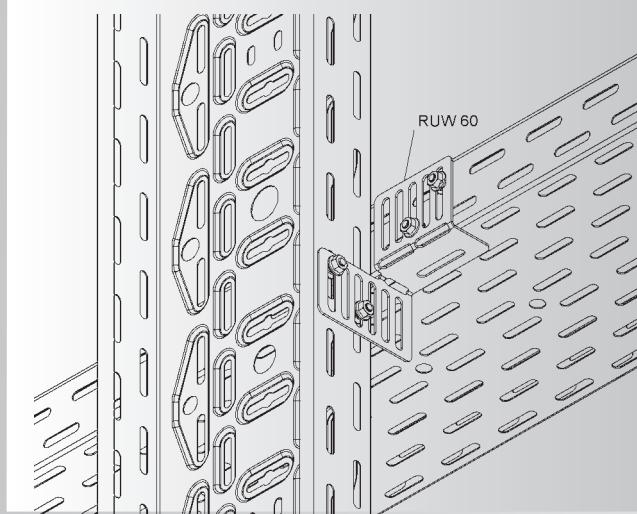


INFORMATION

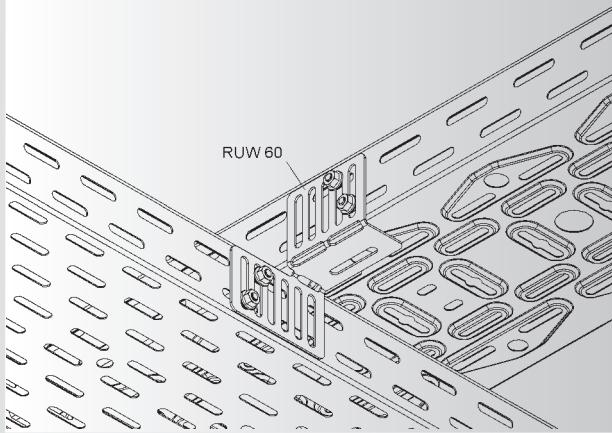
Installation Information

The versatile application possibilities of the universal mounting bracket RUW 60 S for fast connection of cable trays

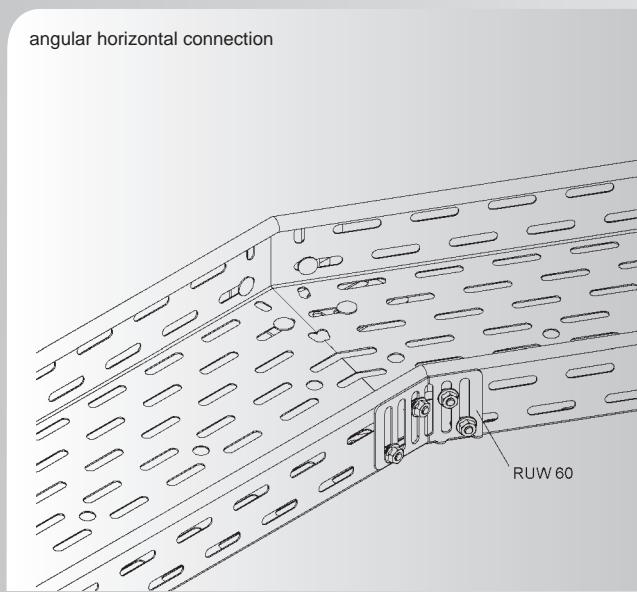
crossing vertical connection



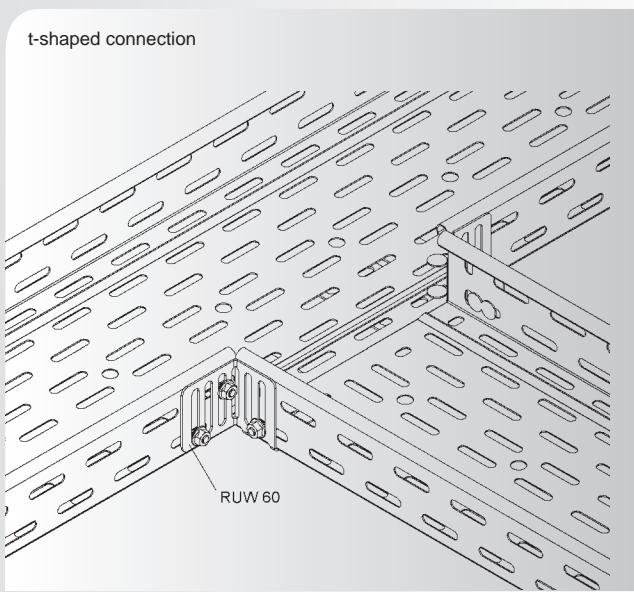
crossing horizontal connection



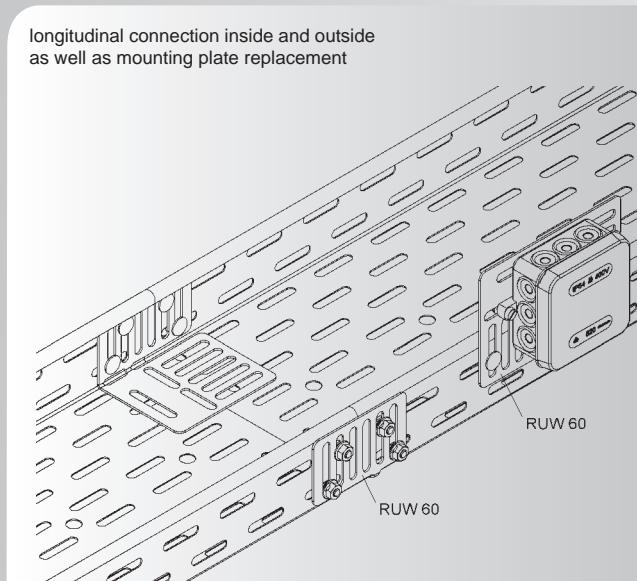
angular horizontal connection



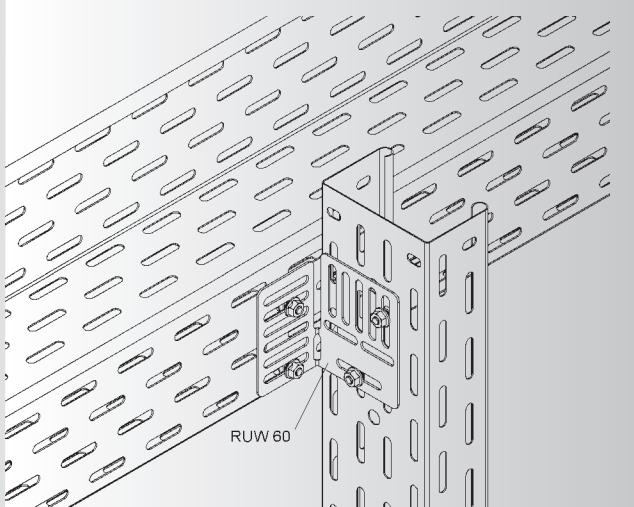
t-shaped connection



longitudinal connection inside and outside
as well as mounting plate replacement



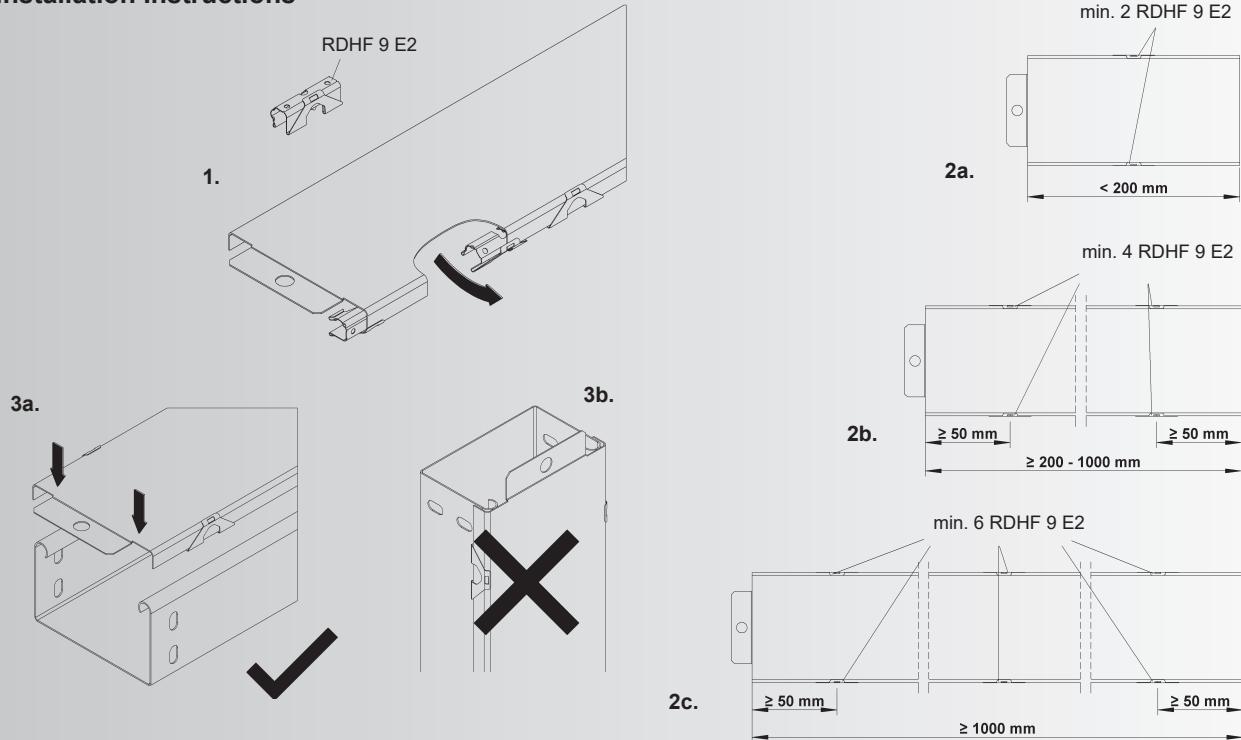
crossing vertical connection



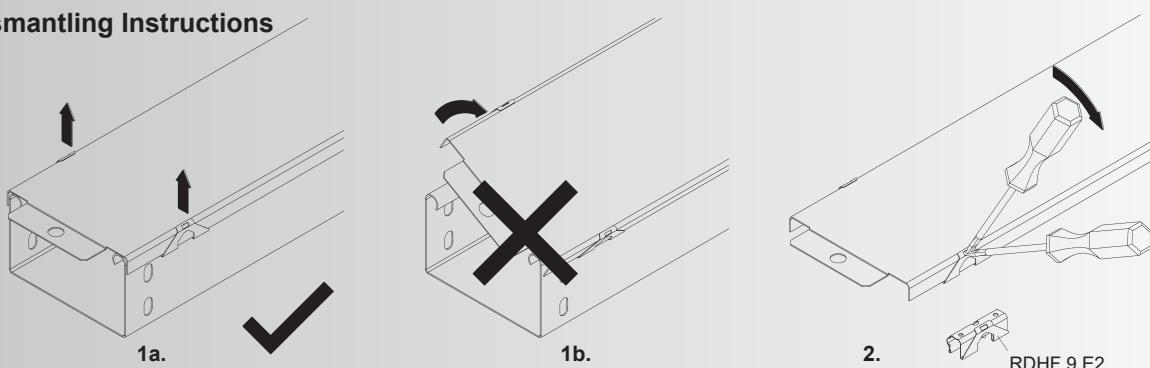
Installation Instructions

RDHF 9 E2

Installation Instructions



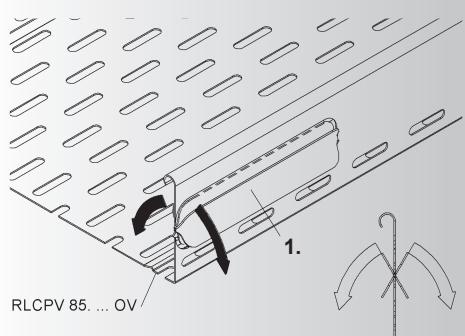
Dismantling Instructions



RLCPV 85... OV

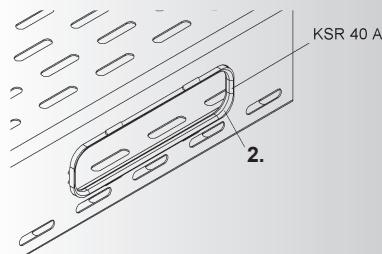
1. Creation of the cable entry openings

by unscrewing the perforated tabs.



2. Optimal protection of the cableduring cable pulling

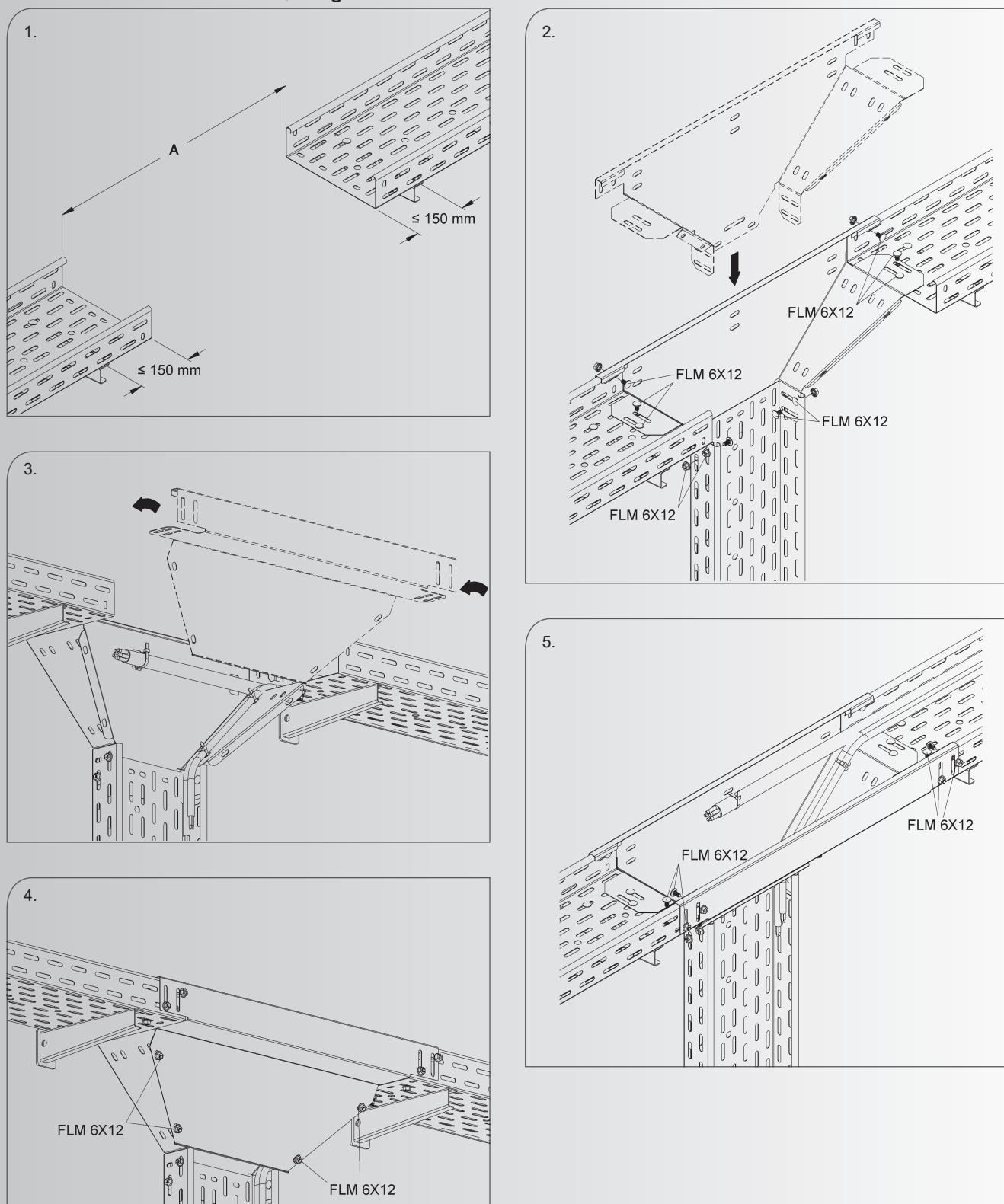
is achieved by inserting the cable protection ring KSR 40 A.



INFORMATION

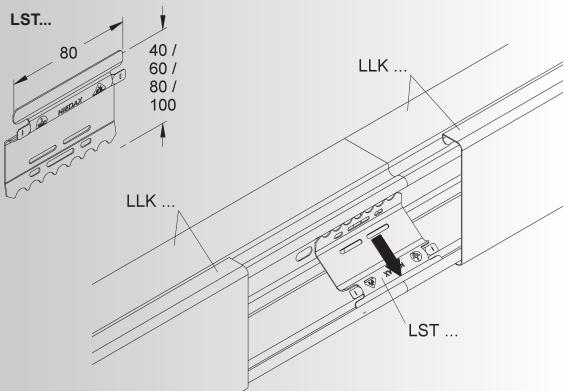
Installation Instructions

RTL... Vertical tee down, lengthwise

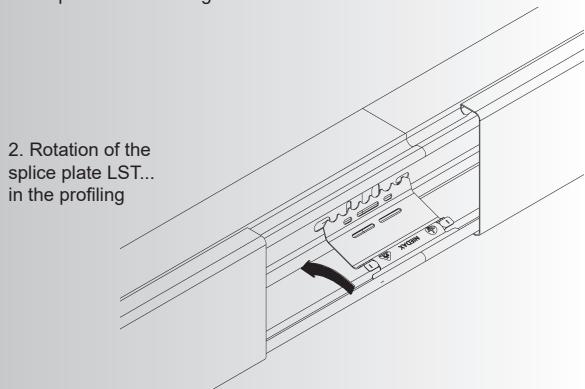


Installation Information

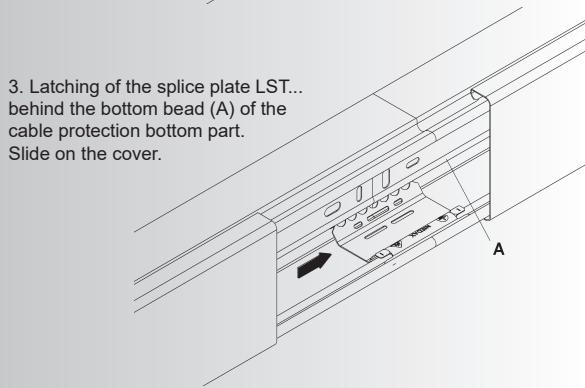
Installation of the splice plates LST... for the cable protection duct LLK...



1. The edge of the
splice plate LST... into the profile of the
cable protection trunking base



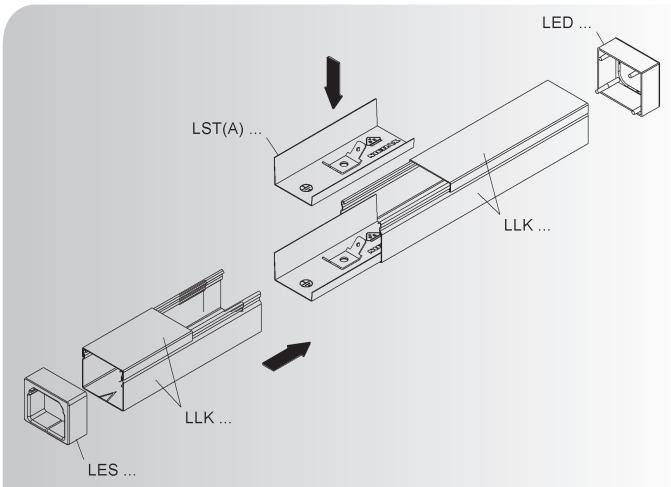
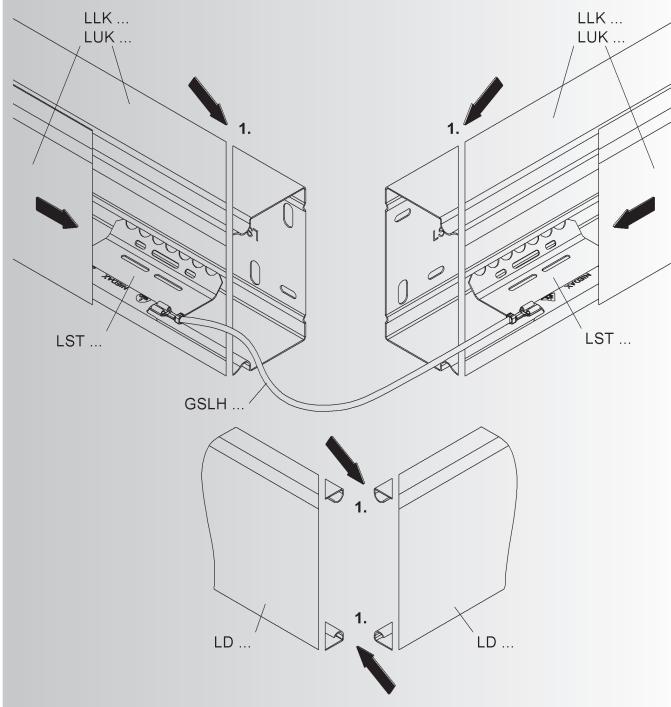
2. Rotation of the
splice plate LST...
in the profiling



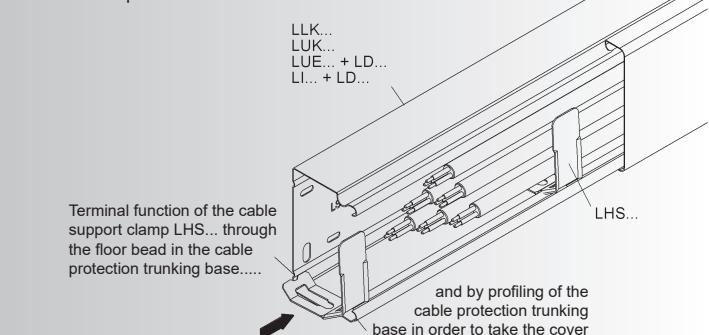
3. Latching of the splice plate LST...
behind the bottom bead (A) of the
cable protection bottom part.
Slide on the cover.

Representation of a bridge in plant construction

The equipotential bonding between the channels is carried out via the splice plate LST... and the equipotential bonding cable GSLH... (please order separately), with the covers automatically when snapped on. Cut the trunking bases and cover to mitre (1.) and push to the joint.



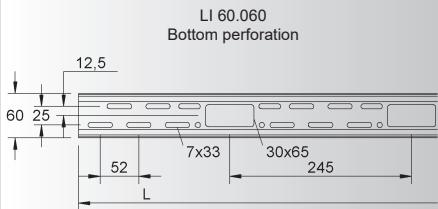
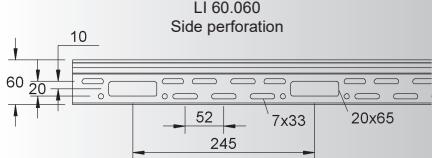
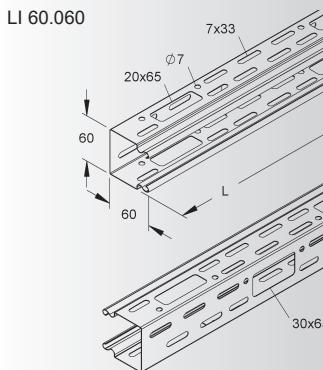
Use of cable support clamp LHS... in the cable protection duct LLK...



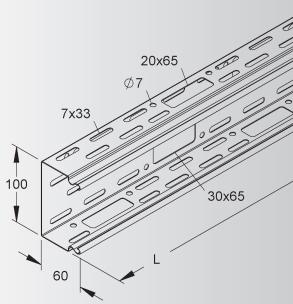
INFORMATION

Installation Information

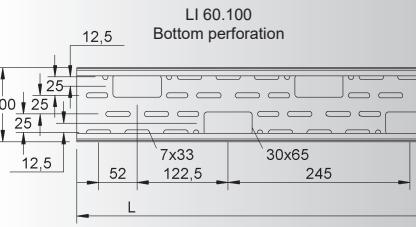
Perforation patterns of the industrial ducts LI 60.



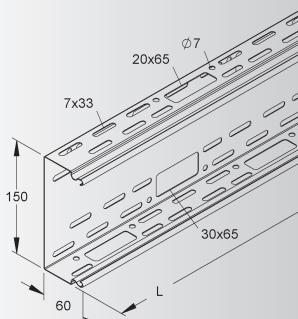
LI 60.100



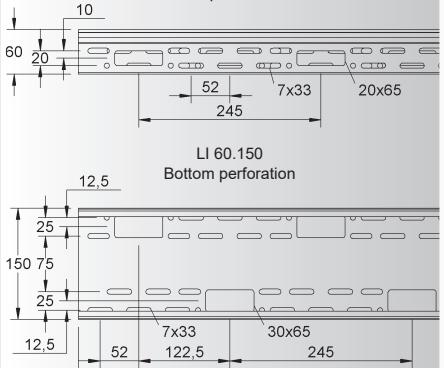
LI 60.100
Side perforation



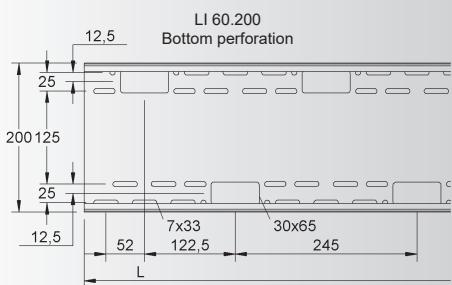
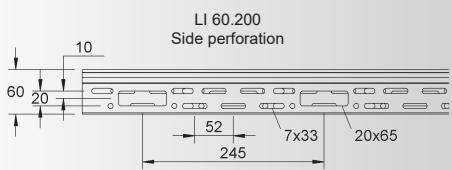
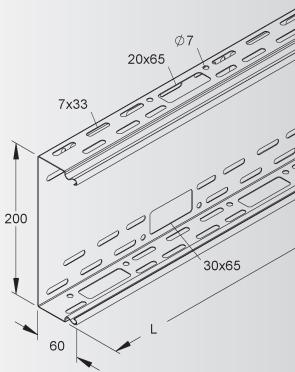
LI 60.150



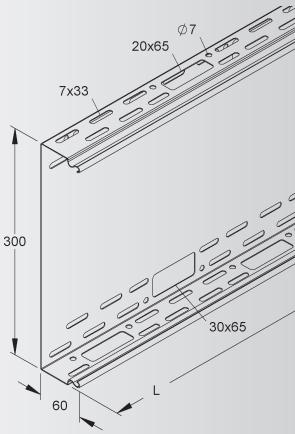
LI 60.150
Side perforation



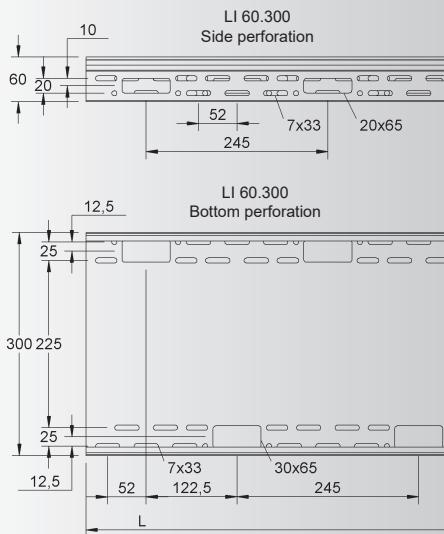
LI 60.200



LI 60.300



LI 60.300
Side perforation



NIEDAX GENERAL TERMS OF SALE AND DELIVERY

I. GENERAL PROVISIONS

1. The following terms of sale and delivery are valid for every contract entered into by the Buyer and Niedax regarding delivered goods. They are valid for all future businesses even if they have not been expressly agreed upon again. Deviating purchasing terms of the buyer which are not expressly accepted by us, are not valid for Niedax. That applies also if Niedax has not expressly rejected them. The following terms are valid also if Niedax has executed the Buyer's order without objections while knowing of his adverse or different purchase terms. Sales to private, i.e. non-business customers are not made.
2. All agreements between the Buyer and Niedax regarding the execution of the sales contracts are contained by writing in the contracts.
3. If particular provisions are legally invalid, the whole contract shall remain validity regarding in the remaining parts, except for those cases where adherence to the contract would be unacceptable for at least one contractual party.

II. PRICES AND TERMS OF PAYMENT

1. The prices indicated are net, ex works, excluding packing, the respective VAT if applicable has to be added on top.
2. Prices apply without packing costs for orders up to Euro 600 net (not including VAT). In the case of orders greater than Euro 600 net (not including VAT), we deliver free of charge to the next goods station, including packing, for sealed collection in one consignment. Haulage at the place of reception is at the expense of the customer.
3. An additional charge of Euro 10 net (not including VAT) per order is levied on minimum orders of a value of less than Euro 100 net (small orders, not including VAT). The minimum-sized packing or packing drums are made to suit requirement and are only sold in complete packing units. A surcharge of Euro 5 net (not including VAT) to cover expenses is levied per unit (packing or packing drum) for orders that deviate from the standard packing unit sizes.
4. Delivery in parts is permitted if economically reasonable for the Buyer.
5. If deliveries are to be made to construction sites, the costs for freight / transportation will be advanced by Niedax and will be invoiced to the Buyer if no freight-free delivery is applicable or had been agreed.
6. If not otherwise agreed, all payments have to be made at the latest 10 days after invoicing to allow a three per cent discount, 30 days after invoicing to allow a two per cent discount and 45 days after invoicing net without deductions. This assumes that our invoice has not been dispatched before delivery of the goods; if that may be the case as an exception, the periods for payment shall be calculated on the day of delivery.
7. If the Buyer fails to fulfil his obligations to pay, e.g. does not honour a cheque or a bill payable or ceases his payments, or when circumstances become known that put his creditworthiness into question, then the entire residual debt shall become due, even if invoices exist that have a later maturity date or other agreements have been made regarding extension of the term of payment. In this case we shall not be obliged to make further deliveries unless the customer offers advanced payment before delivery. In the event that the customer does not offer cash payment, then we shall be entitled to claim damages for non-performance.
8. The Buyer can only set off against claims which are undisputed, accepted or legally ascertained.

III. DELIVERY TIMES, DELAY

1. Compliance with set periods for deliveries presupposes the punctual submission of all the necessary documents and other obligations that are to be supplied by the ordering party. If these preconditions are not promptly satisfied, then the periods of time shall be increased accordingly; this shall not apply if Niedax is responsible for the delay.
2. In case Niedax delays performance, the ordering party shall be entitled to demand damages limited to the foreseeable, typically occurring damage, except if the delay results from a deliberate or grossly negligent breach of contract or in case of fatal or bodily injury or injury to health, with Niedax having to take responsibility for respective acts committed by representatives and agents.
3. If the Buyer can prove damages resulting from the delay in delivery, he is entitled to claim compensation of 0.3 % for each full week of delay, but not more than a total of 15 % of the price of the amount of delivery that could not be put to appropriate use because of the delay.
4. In case the dispatch or delivery are delayed at the request of the ordering party by more than a month after notification of readiness to deliver, it shall be possible to invoice the ordering party for storage for each month commenced at a rate of 0.5 %, but not more than a total of 5 %, of the price of the objects to be delivered. The contract parties remain free to prove higher or lower storage costs.
5. If the delivery times are not observed as a consequence of force majeure, e.g., mobilization, war, insurrection, or similar events like strikes or lock-outs, then the periods of time shall be extended accordingly.

IV. PASSING OF RISK, RECEIPT, TAKING BACK

1. The risk, including for carriage paid delivery, is passed to the ordering party as follows:
 - a) In the case of deliveries without mounting or installation, when they are handed over to the transport agent or to the ordering party in case of collection by themselves. At the request and expense of the ordering party deliveries will be insured by Niedax against the usual transport risks;
 - b) In case of deliveries including mounting or installation the passing of risk is on the day of acceptance within the ordering party's premises, or, if agreed, after a faultless test operation.
2. If the ordering party is responsible for delays in dispatch, delivery, the commencement or execution of the mounting or installation, acceptance at the ordering party's premises or the trial operation, or if the ordering party delays acceptance for any other reason, then the risk shall be transferred to the ordering party.
3. The ordering party may not refuse to accept deliveries for the reason of slight defects.
4. Returns of goods have to be coordinated with the concerned person dealing with the case. Articles which are especially produced and not fit for warehousing are exempt from taking back.

V. RETENTION OF TITLE

1. The delivered goods shall remain our property until all our claims arising from the business relationship have been settled. The delivered goods may only be sold in the due course of business either for cash payment or by transferring our reservation of ownership to the buyer. They may not be pledged nor assigned nor transferred by the customer.
2. The Buyer may sell or utilize the goods subject to retention of title for proper business purposes, unless he is in delay of payment. The customer herewith assigns to us all his future claims from release of the reserved goods. This assignment shall apply both for the full value and for the partial value corresponding to our coownership share of the goods sold. The assignment shall remain valid until all our claims have been paid in full. We hereby accept this assignment. The thus originated sole or partial ownership will be kept by the Buyer on our behalf.
3. We authorize the Buyer revocably to collect payments regarding the assigned claims - as long as he continues to fulfil his obligations towards us and does not become bankrupt. The sums received shall be transferred to us immediately when our claims are due.
This authorization can be revoked anytime if the Buyer does not adhere to his payment obligations. The Buyer is not entitled to assign the claims to other parties, e.g. in a system of debt collection by factoring, except if at the same time the factor accepts the obligation to pay the consideration directly to us as long as claims by us exist against the Buyer.
4. If the goods are combined or merged with other items, we gain co-ownership regarding the new item, corresponding to the value of our reserved goods in relation to the value of the other goods at the time of processing. If the goods subject to retention of title are processed by the customer, each processing takes place for us.
5. In the case of neglect of duty by the Buyer, esp. delay of payment, we are entitled to the retraction of the goods subject to retention of title as well as to the withdrawal from the affected deal. The performance of retraction or of claiming the retention of the goods only means a withdrawal if we declare it expressly to be.
6. The customer shall immediately inform us of any third-party judicial enforcement measures against the reserved goods or claims assigned to us in advance. Such information must be accompanied by the documentation required for intervention.

NIEDAX GENERAL TERMS OF SALE AND DELIVERY

VI. WARRANTY FOR MATERIAL DEFECTS AND LIABILITY

1. Claims for defects can only be made if the Buyer adhered to his obligation under § 377 HGB to properly examine and if necessary notify Niedax of defects.
2. In case of a defect, the Buyer has to give Niedax the opportunity for supplementary performance within reasonable time. The supplementary performance is deemed failed after unsuccessful attempts, if not more attempts are appropriate and just and reasonable for the buyer, regarding the contractual item. If the supplementary performance has failed, the Buyer is entitled – notwithstanding possible claims regarding damages – to withdraw from the contract or to reduce the remuneration. Damages resulting from defects cannot be claimed before the supplementary performance has been attempted twice (at least) unsuccessfully, except regarding damages under Clause VIII.
3. Claims on the part of the Buyer for expenses necessary for the purpose of remedying defects, will be borne by Niedax assumed that they are necessary and are not increased because the object of delivery has afterwards been taken to a place other than the premises of the ordering party, unless such movement complies with its use in accordance with the regulations.
4. Claims for only minor deviation from the agreed quality cannot be accepted. We must therefore reject claims for only minor impairment to fitness for use, or for natural wear and tear, or for damage arising after the transfer of risk as a result of faulty or negligent handling, excessive stress, unsuitable operating materials, defective building works, unsuitable building ground, or occurring as a result of other external influences that have not been presumed according to the contract. In case the ordering party or a third party carries out inexpert repairs or changes, there no right for claims will be granted by Niedax for defects caused by these works or the consequences of them.
5. We are liable according to the law for damages to life, body and health that result from an intentional or negligent neglect of duty committed by us, our representatives or agents, as well as for damages that are fall within product liability laws. We are liable for damages not included in the first sentence which result from intentional or grossly negligent breaches of contract as well as in case of fraudulent concealment of a defect committed by us, our representatives or agents, following the legal provisions. In those last mentioned cases however our liability is limited to the foreseeable, typically occurring damage, except when we or our representatives or agents have acted intentionally.
6. We are liable for damages that are caused by us by slight negligent neglect of contractual obligations whose fulfillment is indispensable for the contractual performance and in whose compliance the Buyer fundamentally and justifiably trusts (fundamental contractual obligations). Our liability is however limited to damages that are typically related to the contract and foreseeable.
7. In accordance with § 478 BGB (Rückgriff des Unternehmers [Contractor's Recourse, § 478 BGB]), the ordering party's rights of recourse against Niedax only exist in so far as the ordering party has made no agreements with its supplier that extend beyond the legal claims for defects.
8. Claims for material defects are subject to a limitation period of 12 months. This restriction shall not apply in so far as the law prescribes longer periods in accordance with §§ 438, Par. 1 No. 2 (Bauwerke und Sachen für Bauwerke [Buildings and Items for Building]), 479 Par. 1 (Rückgriffsanspruch [Right of Recourse]) and 634a Par. 1 No. 2 (Baumängel [Building Defects]) of the BGB [German Civil Code], and in cases of injury to life, health or bodily injury, in case of an intentional or gross carelessness on the part of Niedax, and in case of fraudulent concealment of a defect.

VII. IMPOSSIBILITY; ADAPTATION OF CONTRACTS

1. If delivery is impossible, the ordering party shall be entitled to demand compensation, unless Niedax is not responsible for the impossibility. The claim for damages on the part of the ordering party is, however, limited to 15 % of the value of that part of the delivery that cannot be put into appropriate operation due to the impossibility of delivery. This limitation shall not apply in so far as there is absolute liability in cases of intent or gross negligence or in the event of fatal or bodily injury or injury to health; this is not associated with any change in the burden of proof to the disadvantage of the ordering party. The right of the ordering party to withdraw from the contract remains unaffected.
2. If unforeseeable events in the sense of Item III No. 5 significantly change the economic importance or content of the delivery or have a significant effect on the working activities of Niedax, the contract shall be reasonably adapted respecting good faith. If this is not economically justifiable, Niedax shall have the right to withdraw from the contract. If he wishes to avail himself of this right to withdraw from the contract, then he shall undertake to inform the ordering party of the fact immediately, having determined the extent and consequences of the event; this shall also apply if an extension of the delivery time has first been agreed with the ordering party.

VIII. FURTHER CLAIMS TO DAMAGES

1. Claims to damages and expenses by the Buyer (hereafter: damages), whatsoever the legal reason, especially resulting from a neglection of contractual obligations or from an unlawful act, are excluded.
2. The aforesaid exclusion is not valid insofar as there is mandatory liability by law, e.g. under product liability law, in cases of intentional or grossly negligent acts, damages to life, body and health and neglect of fundamental contractual obligations. Our liability regarding the neglect of fundamental contractual obligations is however limited to damages typically related to the contract and foreseeable, except with intentional or gross negligence and with damages to life, injuries, impacts on health. This is not associated with any change in the burden of proof to the disadvantage of the ordering party.
3. The Buyer's claims to damages mentioned here in Art. VIII expire after the end of the limitation period according material defects under Article VI paragraph 8. In case of titles to claim according to the Product Liability Act the legal rules regarding the limitation period will apply.
4. The 12 months limitation period also applies to measures to remedy the damages, especially to product recalls.

IX. PLACE OF PERFORMANCE, OF JURISDICTION AND APPLICABLE LAW

1. Place of performance of deliveries and payments is Linz/Rhine. The sole place of jurisdiction for all disputes arising directly or indirectly out of sales contracts between Niedax and the Buyer (including action on a dishonored cheque or bill payable) shall be governed by the place of performance, too. Niedax shall, however, also be entitled to bring an action at the domicile of the ordering party.
2. The legal relationships between the contractual parties shall be governed exclusively by German substantive law, to the exclusion of the United Nations Convention on Contracts for the International Sale of Goods (CISG).

X. SETTLEMENT OF CONSUMER CLAIMS

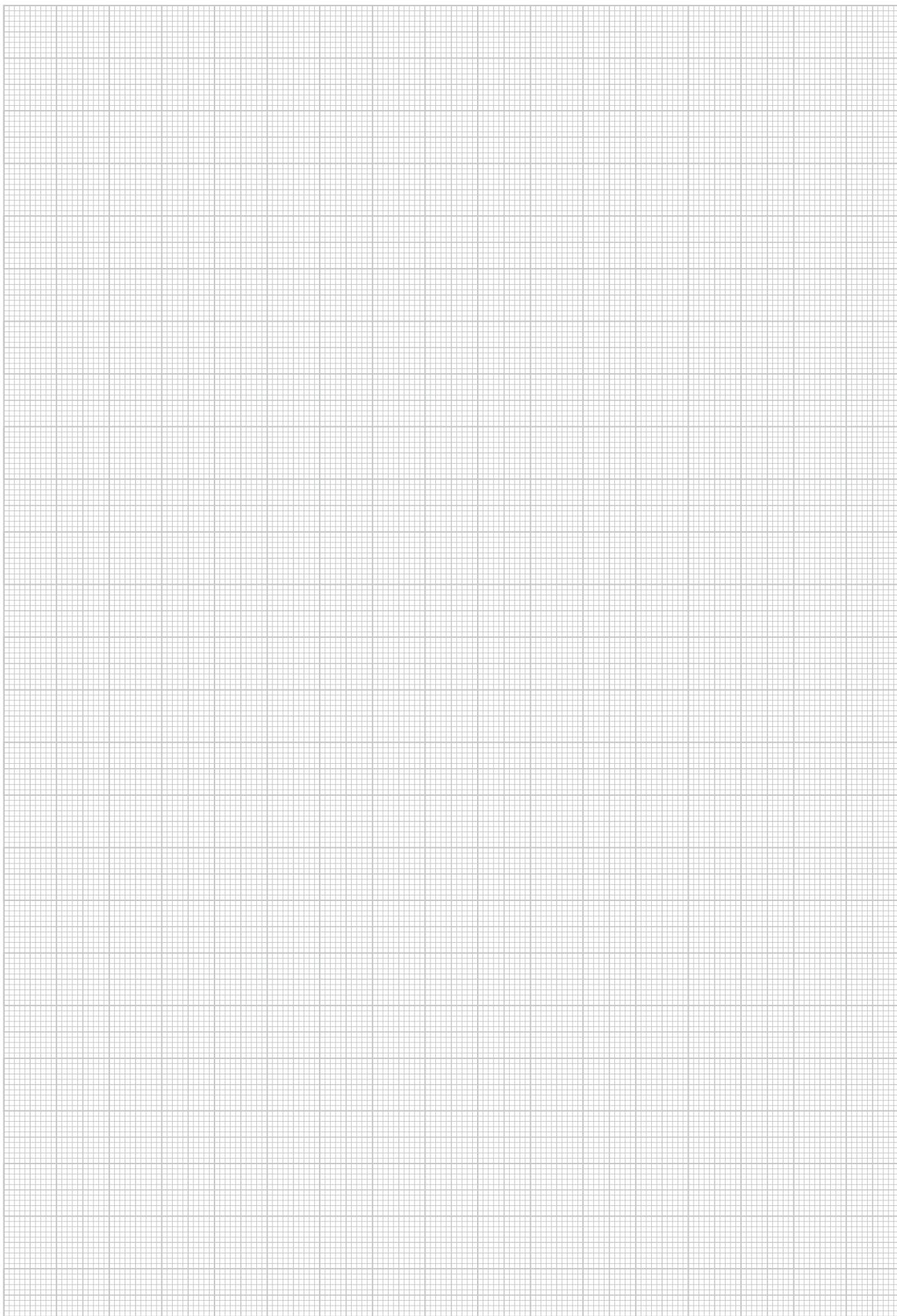
Companies of NIEDAX GROUP do not enter into contractual relationships with consumers in accordance to § 310 fig. 3 BGB as our products are exclusively delivered to authorized distributors and commercial customers.

For this reason we are not participating in any settlement procedure for claims from consumers in any Consumer Arbitration Centre. However, in accordance to the German law on alternative settlements of consumer claims we are obliged to inform about the relevant authority for settlement of consumer claims (Consumer Arbitration Centre):

Allgemeine Verbraucherschlichtungsstelle des Zentrums für Schlichtung e.V.
Straßburger Str. 8
77694 Kehl
Internet: www.verbraucher-schlichter.de

As of 03/2017

..... NOTES





Niedax GmbH & Co. KG
Asbacher Straße 141
D-53545 Linz/Rhein

Postfach 1286
D-53541 Linz/Rhein

Tel: +49 (0) 2644/5606-0
Fax: +49 (0) 2644/5606-13

info@niedax.de
www.niedax.de