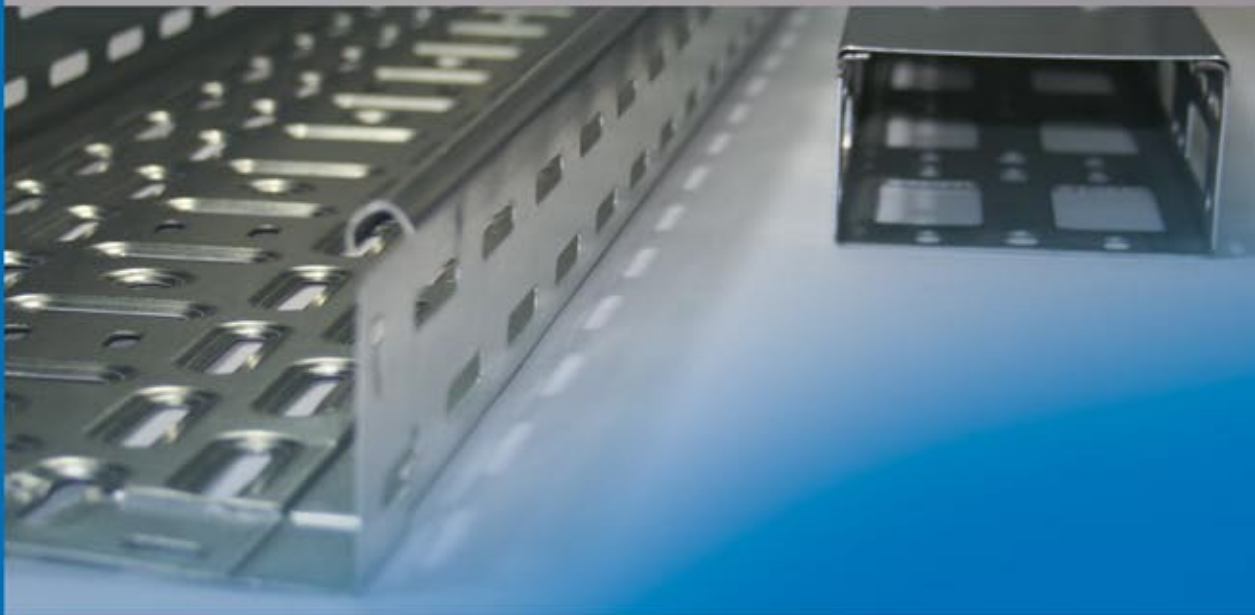




CABLE TRAY SYSTEMS

2011/2012

Steel

B	Steel, bare
V	Steel, galvanized according to DIN 50 961, blued
G	Steel, galvanized according to DIN 50 961, passivated
S	Steel, pre-galvanized according to DIN EN 10 327
F	Steel, hot dip galvanized after fabrication (HDGAF) according to DIN EN ISO 1461 (Replacement for DIN 50 976)
FD	Steel, hot dip galvanized after fabrication (HDGAF), double dip method
SB	Steel, black-oxide finish
C	COLOR Steel, pre-galvanized and powdercoated



Stainless Steel

E1	Material Code.: 1.4016	E4	Material Code.: 1.4401, 1.4404	E7	Material Code.: 1.4547
E2	Material Code.: 1.4310 (AISI 304)	E5	Material Code.: 1.4571 (AISI 316)	E8	Material Code.: 1.4430
E3	Material Code.: 1.4301 (AISI 304)	E6	Material Code.: 1.4529	E9	Material Code.: 1.4362

AL Aluminum (N = naturally anodized, * = powdercoated in RAL colors)

P Electrotechnical Porcelain

MS Brass

CU Copper

Plastics

K01	PA - Polyamide, non halogen	K13	PC/ABS - Polycarbonate/Acrilonitrile-Butadiene-Styrene
K02	PS - Polystyrene, non halogen, impact resistant	K14	POM - Polyacetal
K03	PE - Polyethylene, non halogen	K15	SBR - Styrene-Butadiene Rubber
K04	PP - Polypropylene, non halogen	K16	CR/NBR - Chloroprene/Nitrile Rubber
K05	PC - Polycarbonate, non halogen	K17	CR/SBR - Chloroprene/Styrene-Butadiene Rubber
K06	SBR/NBR - Styrene-Butadiene/Nitrile Rubber	K18	TPE - Thermoplastic Elastomer
K07	CR - Chloroprene Rubber	K19	FS 31 - Phenolic Resin
K08	NBR - Nitrile Rubber	K20	SI - Silicone Rubber
K09	PVC hard - Hard Polyvinylchloride	K21	PUR - Polyurethane
K10	PVC - Polyvinylchloride	K22	PET - Polyethylene Terephthalate, halogen free
K11	ABS - Acrylonitrile-Butadiene-Styrene	K23	GRP - Glass-Fiber Reinforced Polyester, halogen free
K12	ASA - Acrylate-Styrol-Acrylonitrile Copolymer	C1	Epoxy Coating

★ New

Info

Installation Instructions

Reference Note

Hardware

Fast Install

35 Siderail Height in mm

1 Wire Diameter in mm

● Phase Out Model

For worldwide product identification add 40 13339 (Niedax/Germany) in front of the **EAN** Codes listed in the catalog section.

All Cable Tray and Ladder Products listed in this catalog (other than KRC/KRO ladder) are



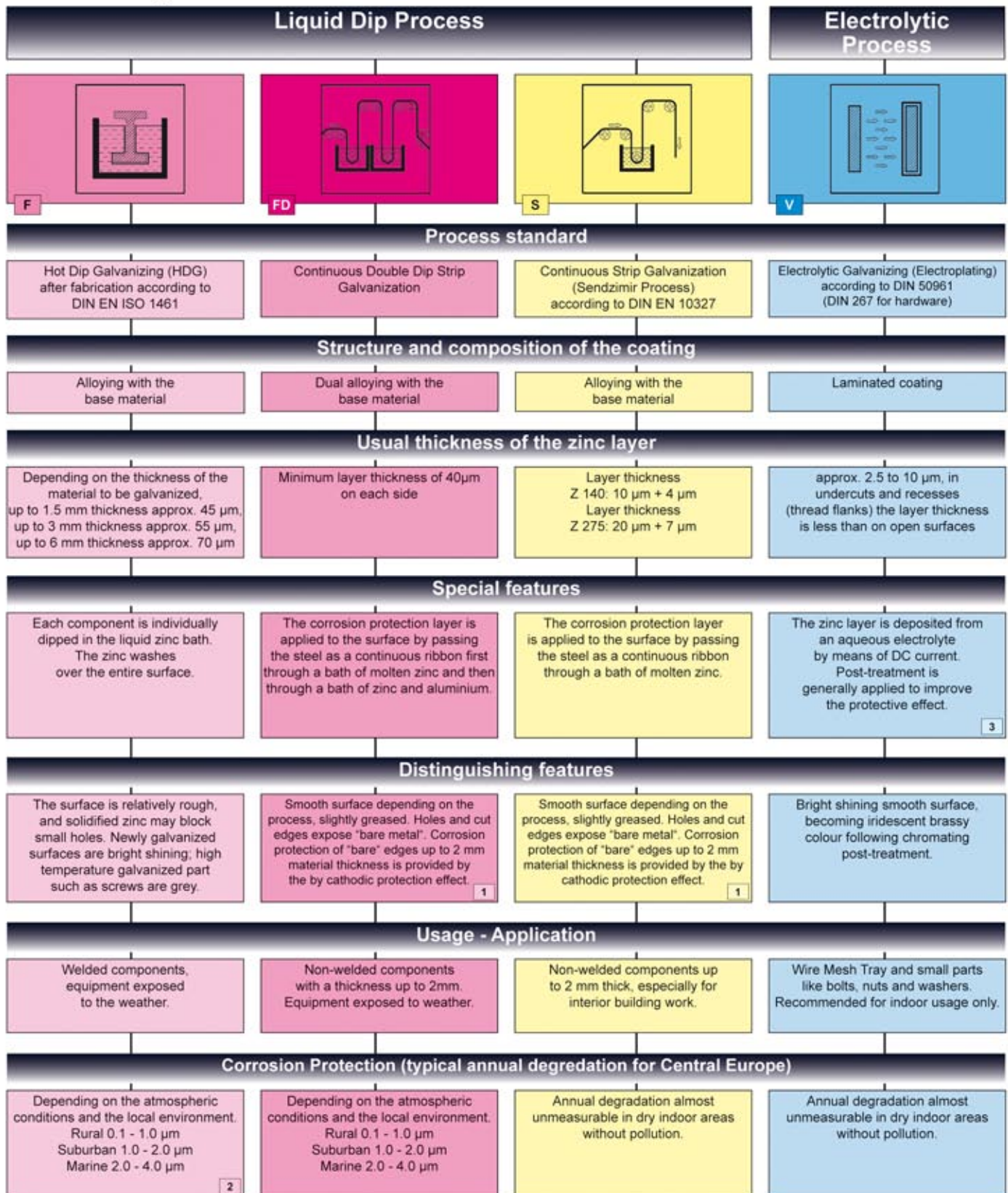
Cable Tray System Products are classified by UL in accordance to NEMA VE1-1998 for USA and CAN/CSA - C22.2 No. 126.1-98 for Canada



Surface Metal Raceway System Products are listed by UL in accordance to UL 5 for USA and CAN/CSA - C22.2 No. 62-93 for Canada

Important notice: The information herein has been carefully checked for accuracy and is believed to be correct and current. No warranty, either expressed or implied, is made as to either its applicability to or its compatibility with specific requirements of this information, nor for damages consequential to its use. All design characteristics, specifications, tolerances and similar information are subject to change without notice.

Galvanizing Processes



1 Components over 2 mm in material thickness are hot dip galvanized at NIEDAX

2 Local environmental conditions would be for instance the direct corrosive effect of a chimney with CO₂ flue gases.

3 Chromating process is ROHS compliant.

Alphabetical table of contents Type listing

Page 2-4

Page 6-19

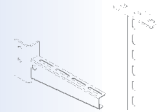
General Information

- Material Handling
- Finishes
- Corrosion Protection
- Installation Instructions



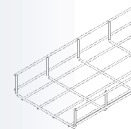
Support System

- Hangers
- Brackets
- Profiles
- Head Plates



Wire Mesh Tray System

- Wire Mesh Trays
- Barrier Strips
- Covers
- Accessories



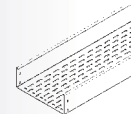
Cable Tray System

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



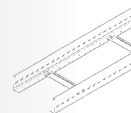
Walkable Cable Tray System

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



Cable Ladder System

- Cable Ladders
- Fittings
- Covers
- Accessories



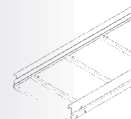
Marine Cable Ladder System

- Cable Ladders
- Rungs
- Splice Plates



Long Span System

- Long Span Cable Trays
- Long Span Cable Ladders
- Fittings
- Accessories



Surface Metal Raceway

- Surface Metal Raceways
- Fittings
- Accessoires



TABLE OF CONTENTS IN ALPHABETICAL ORDER

2

2970 Channel	100
2980 Channel	100
2986 Channel	100
2991 Channel	101
2996 Channel	101
2996Z Toothed channel	102

A

Adjustable Corner Bracket	99
Adjustable Horizontal Splice Plate / Blind End	162
Adjustable Splice / Reducer / Blind End	152, 174, 188, 207
Adjustable Splice Plate	128, 219-220, 237, 241-242, 247-248, 251
Adjustable Vertical Elbow	163, 175, 188, 219
Adjustable Vertical Splice Plate	152, 162, 174, 188
Anchor Bolt	107

B

Barrier Strip	129, 159, 171, 184, 203, 216, 237, 242, 248, 251, 263
Beam Clamp	98
Boltless Splice Plate	128
Bottom Connection Plate	243
Box / Wall Connector	98
Box Mounting Plate	99
Bracket	74-75, 90-91
Bracket for I 80 Profile and HI 80 Hangers	95
Bracket for U 50 Profile and HUF Hangers	81

C

Cable Drop Out	133
Cable Ladder	216
Cable Ladder Connection Bracket	220
Cable Ladder Mounting Bracket	221
Cable Support Clamp	270
Ceiling Suspension Bracket	97
Center Hanger	97, 131
Center Hanger / Trapeze Support	96
Channel Nut	103
Clamping Bracket	77
Clamping Head Plate	80, 85, 89, 94
Combination Bracket/Hanger	72
Counter Pressure Cradle for all Yoke-Clamps	114
Counter Pressure Cradle Steel	116
Cover Clamp	198
Cover for 45° Horizontal Elbow	193, 205
Cover for 90° Elbow	146
Cover for 90° Horizontal Elbow	193-194, 206, 222, 255
Cover for Cable Tray/Ladder	191, 222
Cover for Distribution Cable Tray	145

C

Cover for Flexible Fitting	192
Cover for Horizontal Cross	195
Cover for Horizontal Extension Tee	145, 192, 205, 254
Cover for Horizontal Tee	146, 194-195, 222, 254
Cover for Long Span Cable Trays/Ladders	254
Cover for Mini Cable Tray	142
Cover for Vertical Inside Elbow	196-197
Cover for Vertical Inside/Outside Elbow Kit	196
Cover for Vertical Outside Elbow Kit	196

D

Distribution Cable Tray	144, 183
Double Sided Cable Saddle	115
Double-sided Bracket	81

E

Edge Protection Plate	164, 177, 190
Edge Protection Ring	108, 145, 183
Edge Protection Strip	108
Elbow (2 x 45°)	268
Elbow 45°	265
Elbow 90°	267
Elbow Building Block	268
End-Cap	261, 270
End-Protection Ring	261, 271
Equipotential Bonding Wire	271
Extension Horizontal Tee	145, 151, 160, 172, 185, 204, 217, 228, 238, 242, 249, 252

F

Flexible Horizontal Elbow 0-90°	160, 172, 186, 204
Floor Clamp	208
Floor Mounting Bracket (height: 120 mm)	208
Floor Mounting Bracket (height: 50 mm)	207
Floor Mounting Bracket (height: 80 mm)	208
Floor Support	208

H

Hammer Head Bolt, size M8	103
Head Plate	80, 84, 88, 94
Heavy Duty Cable Tray	158, 170, 182
Heavy Duty Cover Clamp	209
Heavy Duty Cover for Cable Tray	202
Heavy Duty Cover for Flexible Fitting	204
Heavy Duty Cover for Horizontal Tee	207
Heavy Duty Square Washer / Anchor Plate	99
Hexagonal Bolt	106
Hexagonal Nut	105
Hinged Ceiling Suspension Bracket	97
Hook Head Bolt, size M10	104
Hook Head Bolt, size M12	104
Horizontal 90°/Tee Splice Kit	129

H

Horizontal Cross	162, 174, 187, 218
Horizontal Elbow 45°	151, 161, 173, 186, 205, 228
Horizontal Elbow 90°	146, 151, 161, 173, 186, 206, 239, 243, 249, 253
Horizontal Elbow 90° (large radius)	219
Horizontal Elbow 90°, small radius	218
Horizontal Elbow Building Block	160, 172, 186
Horizontal Tee	146, 151, 161, 173, 187, 206, 218, 238, 243, 249, 252
Hydraulic Hand Pump	108

I

Inside Elbow 45°	264
Inside Elbow 90°	266
Inside Elbow (2 x 45°)	267
Inside Elbow Building Block	267

J

J - Hook Bolt	130
Joint for Walkable Cable Tray Covers	203

K

Knockout Punches	108
------------------	-----

L

Ladder Drop Out	221, 253
Large Diameter Washer	106
Lifting Device for Covers	271
Light Duty Cable Tray	150, 157
Long Span Cable Ladder	247, 250
Long Span Cable Tray	236, 240-241

M

Marine Cable Ladder	227
Medium Duty Cable Tray	157, 169, 181
Mini Cable Tray	142
Mounting Clamp for Barrier Strip	129, 217, 238, 248, 252
Mounting Clamp for Long Span Ladders	255
Mounting Plate for Barrier Strip	159, 171, 185, 263
Mounting Plate for Barrier Strip with M6 Stud	160, 172, 185
Mushroom Head Bolt	107
Mushroom Head Bolt, similar to DIN 603 Standard	106, 228

N

Neoprene Adhesive Tape, black	203
-------------------------------	-----

O

Outside Elbow (2 x 45°)	266
Outside Elbow 45°	264
Outside Elbow 90°	265

O

Outside Elbow Building Block	266
Overhead Hanger	72, 78, 82, 86, 92

P

Pair of Protective End Caps	220
Pressure Cradle Extension	115
Profile I 80	93
Profile U 50	79
Profile U 5050	83
Profile U 6040	87
Protective Cap	73-74, 78, 82, 86, 91-92, 95, 101-102

Q

Quick Fix Center Hanger/Trapeze Support	133
Quick Fix L-Bracket	133

R

Reducer / Blind End	151, 162, 174, 187, 207
Rod Coupling	105

S

Serrated Washer	106
Shelf Bracket	99
Sloped Sliding Nut	103
Snap-in Cable Tray Center Hanger	96-97
Snapon Cover for Wire Mesh Tray	132
Spacer	73, 79
Spacer for Overhead Hanger	84, 88
Splice Plate	79, 83, 184, 216, 227, 237, 241, 247, 251, 260, 263
Splice Plate for Barrier Strip	129, 159, 171, 184, 217, 237, 242, 248, 252
Splice/Link Kit	163, 175, 188
Straight Splice Plate	87, 93
Straight Strut Joiner	102
Support Member	209
Surface Metal Raceway	259-262

T

Tee	269
Tee Connector	93
Threaded Rod, size M 10	105
Threaded Rod, size M 12	105
Threaded Rod, size M 8	105
Three Hole Corner Angle	98, 221, 255
Three Piece Splice Plate Kit	184
Trapeze Rungs	227
Triangle-shaped Yoke-Clamp for three cables	116
Turn-bolt Lock	197, 209, 255
Two Hole Corner Angle	98, 221, 255
Two Hole Corner Angle for I 80	94

TABLE OF CONTENTS IN ALPHABETICAL ORDER

U

Universal Mounting Bracket	99
Universal Splice Plate	128, 143, 145, 150, 159, 204
Universal Wire Mesh Mounting Bracket	130
U-shaped Splice Plate	143, 150, 158, 171, 183

V

Vertical Inside Elbow 45°	189
Vertical Inside Elbow 90°	163, 175, 189
Vertical Outside Elbow 45°	189
Vertical Outside Elbow 90°	164, 176, 189
Vertical Tee Down, crosswise	164, 176, 190
Vertical Tee Down, lengthwise	164, 176, 190

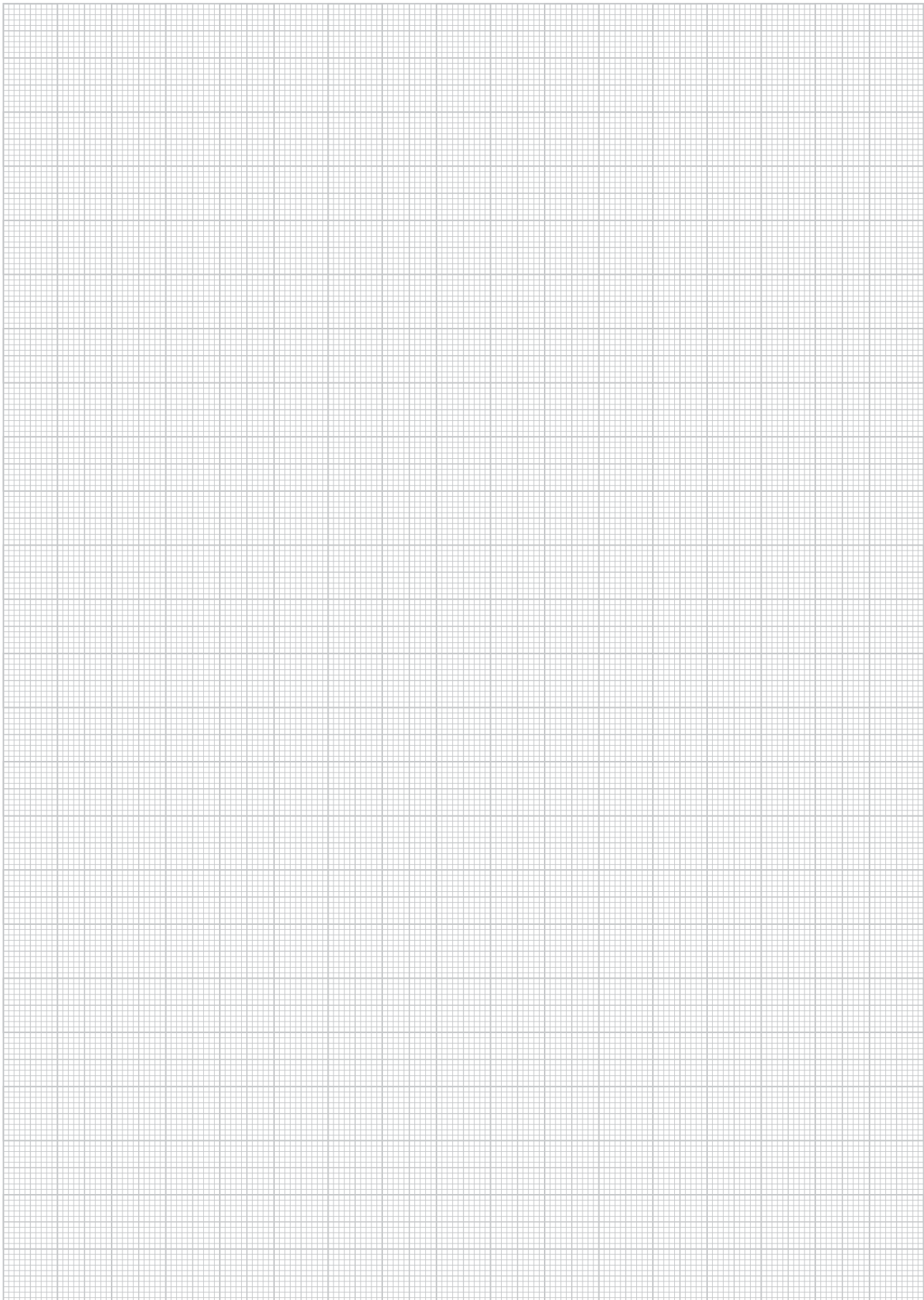
W

Walkable Cable Tray	202
Walkable Cover for Heavy Duty Cable Tray	202-203
Walkable Cover for Heavy Duty Flexible Fitting	204
Walkable Cover for Heavy Duty Horizontal Tee	207
Wall / Ceiling Bracket	73
Wall Bracket	76
Wall Bracket and Floor Support	130
Wall Mounting Bracket	132
Wide Radius Tee	268
Wire Mesh Mounting Bracket	131
Wire Mesh Tray	124-127

Y

Yoke-Clamp	109-114
------------	---------

NOTES



LIST OF ITEMS

model no.	EAN code	page	model no.	EAN code	page	model no.	EAN code	page
2970/2 GL	030101	100	B 50	048502	111	BA 70 E3	762903	109
2970/2 SL	030309	100	B 50 AL	069903	111	BA 76	053308	109
2980/2 FL	042203	100	B 50 E3	082803	111	BA 76 E3	763009	109
2980/2 SL	042555	100	B 50/2	050604	112	BA 82	053407	109
2986/3 E3L	342228	100	B 50/2 AL	071302	112	BA 90	053506	109
2986/3 E5L	728923	100	B 50/2 E3	084302	112	BL 20.65	872121	108
2986/3 FL	193165	100	B 54	048601	111	BL 30.65	872145	108
2986/3 SL	193158	100	B 54 AL	070008	111	BU 100	066605	113
2991/3 FL	193202	101	B 54 E3	082902	111	BU 110	066704	113
2996/3 E3L	894116	101	B 58	048700	111	BU 12	064601	113
2996/3 FL	893935	101	B 58 AL	070107	111	BU 12 E3	757701	113
2996/6 FL	893966	101	B 58 E3	083008	111	BU 12 E5	890507	113
2996Z/3 FL	960675	102	B 64	048809	111	BU 12/2	066803	114
2996Z/6 FL	960699	102	B 64 AL	070206	111	BU 12/2 E3	759002	114
AWG 110/140	891801	99	B 64 E3	083107	111	BU 14	064700	113
AWG 110/140 E3	892167	99	B 70	048908	111	BU 14 AL	075409	113
B 100	049301	111	B 70 E3	083206	111	BU 14 E3	757800	113
B 110	049400	111	B 76	049004	111	BU 14 E5	890101	113
B 12	047406	111	B 76 E3	083305	111	BU 14/2	066902	114
B 12/2	049509	112	B 82	049103	111	BU 14/2 E3	759101	114
B 14	047505	111	B 90	049202	111	BU 16	064908	113
B 14 AL	069002	111	BA 100	053605	109	BU 16/2	067008	114
B 14 E3	081905	111	BA 110	053704	109	BU 16/2 E3	759156	114
B 14/2	049608	112	BA 12	051700	109	BU 18	065004	113
B 14/2 AL	070305	112	BA 12/2	053803	110	BU 18 AL	075508	113
B 14/2 E3	083404	112	BA 14	051809	109	BU 18 E3	757909	113
B 16	047604	111	BA 14 AL	071401	109	BU 18 E5	890149	113
B 16/2	049707	112	BA 14 E3	761609	109	BU 18/2	067107	114
B 16/2 AL	070404	112	BA 14/2	053902	110	BU 18/2 E3	759200	114
B 18	047703	111	BA 16	051908	109	BU 22	065103	113
B 18 AL	069101	111	BA 16 AL	071500	109	BU 22 AL	075607	113
B 18 E3	082001	111	BA 16/2	054008	110	BU 22 E3	758005	113
B 18/2	049806	112	BA 18	052004	109	BU 22 E5	890163	113
B 18/2 AL	070503	112	BA 18 AL	071609	109	BU 22/2	067206	114
B 18/2 E3	083503	112	BA 18 E3	761708	109	BU 22/2 E3	759309	114
B 22	047802	111	BA 18/2	054107	110	BU 26	065202	113
B 22 AL	069200	111	BA 22	052103	109	BU 26 AL	075706	113
B 22 E3	082100	111	BA 22 AL	071708	109	BU 26 E3	758104	113
B 22/2	049905	112	BA 22 E3	761807	109	BU 26 E5	890187	113
B 22/2 AL	070602	112	BA 22/2	054206	110	BU 26/2	067305	114
B 22/2 E3	083602	112	BA 26	052202	109	BU 26/2 E3	759408	114
B 26	047901	111	BA 26 AL	071807	109	BU 30	065301	113
B 26 AL	069309	111	BA 26 E3	761906	109	BU 30 AL	075805	113
B 26 E3	082209	111	BA 26/2	054305	110	BU 30 E3	758203	113
B 26/2	050000	112	BA 30	052301	109	BU 30 E5	890200	113
B 26/2 AL	070701	112	BA 30 AL	071906	109	BU 30/2	067404	114
B 26/2 E3	083701	112	BA 30 E3	762002	109	BU 30/2 E3	759507	114
B 30	048007	111	BA 30/2	054404	110	BU 34	065400	113
B 30 AL	069408	111	BA 34	052400	109	BU 34 AL	075904	113
B 30 E3	082308	111	BA 34 AL	072002	109	BU 34 E3	758302	113
B 30/2	050109	112	BA 34 E3	762101	109	BU 34/2	067503	114
B 30/2 AL	070800	112	BA 34/2	054503	110	BU 34/2 E3	759606	114
B 30/2 E3	083800	112	BA 38	052509	109	BU 38	065509	113
B 34	048106	111	BA 38 AL	072101	109	BU 38 AL	076000	113
B 34 AL	069507	111	BA 38 E3	762200	109	BU 38 E3	758401	113
B 34 E3	082407	111	BA 38/2	054602	110	BU 38/2	067602	114
B 34/2	050208	112	BA 42	052608	109	BU 38/2 E3	759705	114
B 34/2 AL	070909	112	BA 42 AL	072200	109	BU 42	065608	113
B 34/2 E3	083909	112	BA 42 E3	762309	109	BU 42 AL	076109	113
B 38	048205	111	BA 42/2	054701	110	BU 42 E3	758500	113
B 38 AL	069606	111	BA 46	052707	109	BU 42/2	067701	114
B 38 E3	082506	111	BA 46 AL	072309	109	BU 42/2 E3	759804	114
B 38/2	050307	112	BA 46 E3	762408	109	BU 46	065707	113
B 38/2 AL	071005	112	BA 46/2	054800	110	BU 46 AL	076208	113
B 38/2 E3	084005	112	BA 50	052806	109	BU 46 E3	758609	113
B 42	048304	111	BA 50 AL	072408	109	BU 46/2	067800	114
B 42 AL	069705	111	BA 50 E3	762507	109	BU 46/2 E3	759903	114
B 42 E3	082605	111	BA 50/2	054909	110	BU 50	065806	113
B 42/2	050406	112	BA 54	052905	109	BU 50 AL	076307	113
B 42/2 AL	071104	112	BA 54 AL	072507	109	BU 50 E3	758708	113
B 42/2 E3	084104	112	BA 54 E3	762606	109	BU 50/2	067909	114
B 46	048403	111	BA 58	053001	109	BU 50/2 E3	760008	114
B 46 AL	069804	111	BA 58 AL	072606	109	BU 54	065905	113
B 46 E3	082704	111	BA 58 E3	762705	109	BU 54 AL	076406	113
B 46/2	050505	112	BA 64	053100	109	BU 54 E3	758807	113
B 46/2 AL	071203	112	BA 64 AL	072705	109	BU 58	066001	113
B 46/2 E3	084203	112	BA 64 E3	762804	109	BU 58 AL	076505	113
			BA 70	053209	109	BU 58 E3	758906	113

model no.	EAN code	page	model no.	EAN code	page	model no.	EAN code	page
BU 64	066100	113	GRKB 10	280704	131	GRVS 5	280377	128
BU 64 AL	076604	113	GRKB 10 F	280759	131	GRVS 5 E3	340118	128
BU 70	066209	113	GRMB 50	864904	132	GRWB 10	280605	130
BU 76	066308	113	GRMB 50 E3	912018	132	GRWB 10 E3	802005	130
BU 82	066407	113	GRS 110.100	930500	126	GRWB 10 F	280650	130
BU 90	066506	113	GRS 110.100 E3	930722	126	GRWVK 10 E3	931057	131
BUD 30	099108	116	GRS 110.100 F	930562	126	GRWVK 10 S	280797	131
BUD 36	099207	116	GRS 110.150	909339	126	GRWV 20/250 F	280452	129
BUD 44	099306	116	GRS 110.200	930517	126	GSF 0404	119400	103
DAZ 10X10	842827	107	GRS 110.200 E3	930739	126	GSF 0405	119509	103
DAZ 10X30	842841	107	GRS 110.200 F	930579	126	GSF 0406	119608	103
DAZ 12X10	842865	107	GRS 110.300	930524	126	GSF 0408	119707	103
DAZ 8X10	842803	107	GRS 110.300 E3	930746	126	GSL 150	461608	271
DBG 12	345502	97	GRS 110.300 F	930586	126	GSLH 200	461707	271
DBG 12 E3	769827	97	GRS 110.450	933969	126	GSLH 350	461745	271
DBT 40	197200	97	GRS 110.450 E3	934041	126	GSM 0404	119004	103
DBT 40 E3	769841	97	GRS 110.450 F	933976	126	GSM 0405	119103	103
DBT 40 F	197255	97	GRS 110.600	930555	126	GSM 0406	119202	103
DH 55	417483	271	GRS 110.600 E3	930777	126	GSM 0408	119301	103
DSBA 100	872008	203	GRS 110.600 F	930616	126	GWS 14	107414	116
DSBA 200	872022	203	GRS 160.200	930623	127	GWS 16	107421	116
DSBA 300	872046	203	GRS 160.200 E3	930845	127	GWS 18	107438	116
DSBA 400	872053	203	GRS 160.200 F	930678	127	GWS 22	107445	116
DSBA 500	872060	203	GRS 160.300	930630	127	GWS 26	107452	116
DSBA 600	872084	203	GRS 160.300 E3	930852	127	GWS 30	107469	116
DW 12	111909	115	GRS 160.300 F	930685	127	GWS 34	107476	116
DW 14	112005	115	GRS 160.450	934010	127	GWS 38	107483	116
DW 16	112104	115	GRS 160.450 E3	934072	127	GWU 100	111701	114
DW 18	112203	115	GRS 160.450 F	934027	127	GWU 110	111800	114
DW 20	112302	115	GRS 160.600	930661	127	GWU 12	109609	114
DW 22	112401	115	GRS 160.600 E3	930883	127	GWU 14	109708	114
DW 26	112609	115	GRS 160.600 F	930715	127	GWU 16	110001	114
DW 30	112807	115	GRS 60.060	781904	124	GWU 18	110100	114
DW 34	112906	115	GRS 60.060 E3	801152	124	GWU 22	110209	114
DW 38	113002	115	GRS 60.060 F	892204	124	GWU 26	110308	114
DW 42	113101	115	GRS 60.100	781928	125	GWU 30	110407	114
DW 46	113200	115	GRS 60.100 E3	801169	125	GWU 34	110506	114
DW 50	113309	115	GRS 60.100 F	892228	125	GWU 38	110605	114
FLDM 6X45	207060	107	GRS 60.150	781942	125	GWU 42	110704	114
FLDM 6X45 E3	343829	107	GRS 60.150 E3	801176	125	GWU 46	110803	114
FLM 10 X 25 E3	343881	107	GRS 60.150 F	892242	125	GWU 50	110902	114
FLM 10 X 25 F	206902	106	GRS 60.200	781966	125	GWU 54	111008	114
FLM 12 X 30 F	207008	106	GRS 60.200 E3	801183	125	GWU 58	111107	114
FLM 6 X 12	206209	106	GRS 60.200 F	892266	125	GWU 64	111206	114
FLM 6 X 12 E3	343805	107	GRS 60.300	781980	125	GWU 70	111305	114
FLM 6 X 12 E5	729104	107	GRS 60.300 E3	903528	125	GWU 76	111404	114
FLM 6 X 12 F	206407	106	GRS 60.300 F	892280	125	GWU 82	111503	114
FLM 6 X 16 F	206506	106	GRS 60.400	782000	125	GWU 90	111602	114
FLM 8 X 13 F	206605	106	GRS 60.400 E3	903542	125	HDS 50.50 F	931705	84
FLM 8 X 16 E3	343843	107	GRS 60.400 F	892303	125	HDS 60.40 F	931729	88
FLM 8 X 16 F	206704	106	GRS 60.450	967452	125	HHA 90	872169	108
FLM 8 X 25 F	206803	106	GRS 60.450 E3	967476	125	HI 80/1000	179206	92
FLM 8 X 25 F	206803	228	GRS 60.450 F	967469	125	HI 80/1100	179305	92
GMZ M10 F	947423	103	GRS 60.500	782024	125	HI 80/1200	179404	92
GMZ M12 F	947430	103	GRS 60.500 E3	903566	125	HI 80/1300	179503	92
GMZ M6 F	947409	103	GRS 60.500 F	892327	125	HI 80/1400	179602	92
GMZ M8 F	947416	103	GRS 60.600	782048	125	HI 80/1500	179701	92
GR 60.100 E3	343720	124	GRS 60.600 E3	903580	125	HI 80/1600	179800	92
GR 60.150 E3	343737	124	GRS 60.600 F	935758	125	HI 80/1700	179909	92
GR 60.200 E3	343744	124	GRSM 6	280506	130	HI 80/1800	180004	92
GR 60.300 E3	343768	124	GRSM 6 E3	343799	130	HI 80/1900	180103	92
GR 60.400 E3	343782	124	GRTKS 150 S	967537	133	HI 80/200	178407	92
GRBP 6 E3	936960	130	GRTKS 200 S	967544	133	HI 80/2000	180202	92
GRBP 6 S	936953	130	GRTKS 300 S	967551	133	HI 80/300	178506	92
GRD 100	909360	132	GRTKS 500 S	967568	133	HI 80/400	178605	92
GRD 100 E3	801251	132	GRTKS 600 S	967575	133	HI 80/500	178704	92
GRD 150	909384	132	GRTW 300 S	967490	133	HI 80/600	178803	92
GRD 150 E3	801220	132	GRTW 3000 S	967520	133	HI 80/700	178902	92
GRD 200	909407	132	GRTW 500 S	967506	133	HI 80/800	179008	92
GRD 200 E3	801305	132	GRTW 600 S	967513	133	HI 80/900	179107	92
GRD 300	922000	132	GRV 6	280209	128	HK 510/20	123704	104
GRD 300 E3	801374	132	GRV 6 E3	802104	128	HK 510/30	123803	104
GRD 60	909346	132	GRV 6 F	280186	128	HK 510/30 E5	123827	104
GRD 60 E3	801206	132	GRVC 14	280308	129	HK 510/40	123902	104
GRGV 50	940561	128	GRVC 14 E3	841509	129	HK 510/50	124008	104
GRGV 50 E3	940578	128	GRVC 14 F	280339	129	HK 510/50 E5	124022	104
GRGV 50 F	940585	128	GRVS 4	280353	128	HK 512/20	124107	104
GRKA 50 S	967483	133	GRVS 4 E3	781201	128	HK 512/30	124206	104

LIST OF ITEMS

model no.	EAN code	page	model no.	EAN code	page	model no.	EAN code	page
HK 512/30 F	124251	104	HU 6040/800 E3	891894	86	KLAB 400 F	900190	221
HK 512/50	124305	104	HU 6040/900	891535	86	KLAB 500	287703	221
HK 512/50 F	124350	104	HU 6040/900 E3	891900	86	KLAB 500 E3	900152	221
HK 610/30	124602	104	HUF 50/1000	169603	78	KLAB 500 F	900206	221
HK 610/30 F	945177	104	HUF 50/1000 E3	872466	78	KLAB 600	287802	221
HK 610/40	124701	104	HUF 50/1100	169702	78	KLAB 600 E3	900169	221
HK 610/50	124800	104	HUF 50/1200	169801	78	KLAB 600 F	900213	221
HK 610/50 F	945184	104	HUF 50/200	168705	78	KLAS 100	295005	220
HK 610/80	945498	104	HUF 50/200 E3	327300	78	KLBG 100.203	903757	219
HK 610/80 F	945481	104	HUF 50/200 E5	727506	78	KLBG 100.203 F	904204	219
HK 612/30	124909	104	HUF 50/250	168804	78	KLBG 100.303	903764	219
HK 612/40 F	124954	104	HUF 50/300	168903	78	KLBG 100.303 F	904228	219
HK 612/50	125005	104	HUF 50/300 E3	327409	78	KLBG 100.403	903771	219
HK 612/80	125050	104	HUF 50/300 E5	727605	78	KLBG 100.403 F	904242	219
HM 408/20	122806	103	HUF 50/400	169009	78	KLBG 100.503	903788	219
HM 408/30	122905	103	HUF 50/400 E3	327508	78	KLBG 100.503 F	904266	219
HM 408/40	123001	103	HUF 50/400 E5	727704	78	KLBG 100.603	903795	219
HM 408/50	123100	103	HUF 50/500	169108	78	KLBG 100.603 F	904280	219
HSK 10	195800	98	HUF 50/500 E3	327607	78	KLBK 100.203	903702	218
HSK 10 E3	768509	98	HUF 50/500 E5	727803	78	KLBK 100.203 F	904105	218
HSK 15	195909	98	HUF 50/600	169207	78	KLBK 100.303	903719	218
HSK 15 E3	768608	98	HUF 50/600 E3	327621	78	KLBK 100.303 F	904129	218
HSK 20	196104	98	HUF 50/700	169306	78	KLBK 100.403	903726	218
HSK 20 E3	768707	98	HUF 50/700 E3	872404	78	KLBK 100.403 F	904143	218
HSK 25	196203	98	HUF 50/800	169405	78	KLBK 100.503	903733	218
HSK 25 E3	768806	98	HUF 50/800 E3	872428	78	KLBK 100.503 F	904167	218
HSK 30	196005	98	HUF 50/900	169504	78	KLBK 100.603	903740	218
HSK 30 E3	768905	98	HUF 50/900 E3	872442	78	KLBK 100.603 F	904181	218
HSK 35	196302	98	I 80/1000	181100	93	KLBKDV 200	938605	222
HSK 35 E3	769001	98	I 80/1500	181209	93	KLBKDV 200 E3	938704	222
HSK 40	196401	98	I 80/200	180301	93	KLBKDV 200 F	938650	222
HSK 40 E3	769100	98	I 80/2000	181308	93	KLBKDV 300	938612	222
HSKS 10	196425	98	I 80/300	180400	93	KLBKDV 300 E3	938711	222
HSKS 15	196432	98	I 80/3000	181407	93	KLBKDV 300 F	938667	222
HSKS 20	196449	98	I 80/400	180509	93	KLBKDV 400	938629	222
HSKS 25	196456	98	I 80/500	180608	93	KLBKDV 400 E3	938728	222
HSKS 30	196463	98	I 80/600	180707	93	KLBKDV 400 F	938674	222
HSKS 35	196470	98	I 80/6000	181506	93	KLBKDV 500	938636	222
HSKS 40	196487	98	I 80/700	180806	93	KLBKDV 500 E3	938735	222
HU 5050/1000	858880	82	I 80/800	180905	93	KLBKDV 500 F	938681	222
HU 5050/1100	858903	82	I 80/900	181001	93	KLBKDV 600	938643	222
HU 5050/1200	858927	82	K 50	347605	78	KLBKDV 600 E3	938742	222
HU 5050/1500	858941	82	K 5050	347025	82	KLBKDV 600 F	938698	222
HU 5050/200	858705	82	KA 100-600	347056	74	KLK 100.203	903856	218
HU 5050/2000	858965	82	KA 100-600	347056	91	KLK 100.203 F	904402	218
HU 5050/250	858729	82	KA 100-600	347056	95	KLK 100.303	903863	218
HU 5050/300	858743	82	KGS 100.203	903900	219	KLK 100.303 F	904426	218
HU 5050/400	858767	82	KGS 100.203 F	904501	219	KLK 100.403	903870	218
HU 5050/500	858781	82	KGS 100.303	903917	219	KLK 100.403 F	904440	218
HU 5050/600	858804	82	KGS 100.303 F	904525	219	KLK 100.503	903887	218
HU 5050/700	858828	82	KGS 100.403	903924	219	KLK 100.503 F	904464	218
HU 5050/800	858842	82	KGS 100.403 F	904549	219	KLK 100.603	903894	218
HU 5050/900	858866	82	KGS 100.503	903931	219	KLK 100.603 F	904488	218
HU 6040/1000	891542	86	KGS 100.503 F	904563	219	KLMUAT 40.100F	935222	228
HU 6040/1000E3	891917	86	KGS 100.603	903948	219	KLMUAT 40.150F	935239	228
HU 6040/1100	891559	86	KGS 100.603 F	904587	219	KLMUAT 40.200F	935246	228
HU 6040/1100E3	891924	86	KGV 100 F	906789	220	KLMUAT 40.250F	935253	228
HU 6040/1200	891566	86	KGV 100 S	906772	220	KLMUAT 40.300F	935260	228
HU 6040/1200E3	891931	86	KI 80	192908	94	KLMUAT 40.400F	935277	228
HU 6040/1500	891573	86	KIDK 80	195008	94	KLMUAT 40.500F	935284	228
HU 6040/1500E3	891948	86	KL 100.203	903658	216	KLMUAT 40.600F	935291	228
HU 6040/200	891450	86	KL 100.203 F	904006	216	KLMUAT 40.700F	935307	228
HU 6040/200 E3	891825	86	KL 100.303	903665	216	KLMUAT 40.800F	935314	228
HU 6040/2000	891580	86	KL 100.303 F	904020	216	KLMUAT 40.900F	935321	228
HU 6040/2000E3	891955	86	KL 100.403	903672	216	KLMUAT40.1000F	935338	228
HU 6040/250	891467	86	KL 100.403 F	904044	216	KLMUBB 40.100F	935109	228
HU 6040/250 E3	891832	86	KL 100.503	903689	216	KLMUBB 40.150F	935116	228
HU 6040/300	891474	86	KL 100.503 F	904068	216	KLMUBB 40.200F	935123	228
HU 6040/300 E3	891849	86	KL 100.603	903696	216	KLMUBB 40.250F	935130	228
HU 6040/400	891481	86	KL 100.603 F	904082	216	KLMUBB 40.300F	935147	228
HU 6040/400 E3	891856	86	KLAB 200	287406	221	KLMUBB 40.400F	935154	228
HU 6040/500	891498	86	KLAB 200 E3	900121	221	KLMUBB 40.500F	935161	228
HU 6040/500 E3	891863	86	KLAB 200 F	900176	221	KLMUBB 40.600F	935178	228
HU 6040/600	891504	86	KLAB 300	287505	221	KLMUBB 40.700F	935185	228
HU 6040/600 E3	891870	86	KLAB 300 E3	900138	221	KLMUBB 40.800F	935192	228
HU 6040/700	891511	86	KLAB 300 F	900183	221	KLMUBB 40.900F	935208	228
HU 6040/700 E3	891887	86	KLAB 400	287604	221	KLMUBB40.1000F	935215	228
HU 6040/800	891528	86	KLAB 400 E3	900145	221	KLMUL 40.100 F	932825	227

model no.	EAN code	page	model no.	EAN code	page	model no.	EAN code	page
KLMUL 40.1000F	933044	227	KTA 1000 E3	770861	75	KTAM 600	186808	74
KLMUL 40.150 F	932849	227	KTA 1000 E3	770861	91	KTAM 600	186808	90
KLMUL 40.200 F	932863	227	KTA 150	187003	74	KTAS 100	917457	76
KLMUL 40.250 F	932887	227	KTA 150	187003	90	KTAS 1000	189205	76
KLMUL 40.300 F	932900	227	KTA 200	187102	74	KTAS 200	188406	76
KLMUL 40.400 F	932924	227	KTA 200	187102	90	KTAS 200 E3	330515	76
KLMUL 40.500 F	932948	227	KTA 200 E3	330102	74	KTAS 300	188505	76
KLMUL 40.600 F	932962	227	KTA 200 E3	330102	90	KTAS 300 E3	330539	76
KLMUL 40.700 F	932986	227	KTA 200 E5	842629	74	KTAS 400	188604	76
KLMUL 40.800 F	933006	227	KTA 200 E5	842629	90	KTAS 400 E3	330553	76
KLMUL 40.900 F	933020	227	KTA 250	187201	74	KTAS 500	188703	76
KLMV 40	298808	227	KTA 250	187201	90	KTAS 500 E3	330577	76
KLT 100.203	903801	218	KTA 300	187300	74	KTAS 600	188802	76
KLT 100.203 F	904303	218	KTA 300	187300	90	KTAS 600 E3	330591	76
KLT 100.303	903818	218	KTA 300 E3	330201	74	KTAS 700	188901	76
KLT 100.303 F	904327	218	KTA 300 E3	330201	90	KTAS 800	189007	76
KLT 100.403	903825	218	KTA 300 E5	842643	74	KTAS 900	189106	76
KLT 100.403 F	904341	218	KTA 300 E5	842643	90	KTASS 1000	189298	76
KLT 100.503	903832	218	KTA 350	187409	74	KTASS 200	189212	76
KLT 100.503 F	904365	218	KTA 350	187409	90	KTASS 300	189229	76
KLT 100.603	903849	218	KTA 400	187508	74	KTASS 400	189236	76
KLT 100.603 F	904389	218	KTA 400	187508	90	KTASS 500	189243	76
KLTA 100.203	913701	217	KTA 400 E3	330300	74	KTASS 600	189250	76
KLTA 100.203 F	904310	217	KTA 400 E3	330300	90	KTASS 700	189267	76
KLTA 100.303	913725	217	KTA 400 E5	842667	74	KTASS 800	189274	76
KLTA 100.303 F	904334	217	KTA 400 E5	842667	90	KTASS 900	189281	76
KLTA 100.403	913749	217	KTA 450	187607	74	KTDL 100	170500	81
KLTA 100.403 F	904358	217	KTA 450	187607	90	KTDL 150	170609	81
KLTA 100.503	913763	217	KTA 500	187706	74	KTDL 200	170708	81
KLTA 100.503 F	904372	217	KTA 500	187706	90	KTDL 250	170807	81
KLTA 100.603	913787	217	KTA 500 E3	330409	74	KTDL 300	170906	81
KLTA 100.603 F	904396	217	KTA 500 E3	330409	90	KTDL 400	171002	81
KLTB 6	282708	221	KTA 500 E5	917402	74	KTT 100	181605	95
KLTB 6 E3	342006	221	KTA 500 E5	917402	90	KTT 150	181704	95
KLTB 6 E5	730407	221	KTA 550	187805	74	KTT 200	181803	95
KLTB 6 F	282722	221	KTA 550	187805	90	KTT 250	181902	95
KLTDV 200	938759	222	KTA 600	187904	74	KTT 300	182008	95
KLTDV 200 E3	938858	222	KTA 600	187904	90	KTT 350	182107	95
KLTDV 200 F	938803	222	KTA 600 E3	330508	74	KTT 400	182206	95
KLTDV 300	938766	222	KTA 600 E3	330508	90	KTT 450	182305	95
KLTDV 300 E3	938865	222	KTA 600 E5	917426	74	KTT 500	182404	95
KLTDV 300 F	938810	222	KTA 600 E5	917426	90	KTT 550	182503	95
KLTDV 400	938773	222	KTA 700	188000	75	KTT 600	182602	95
KLTDV 400 E3	938872	222	KTA 700	188000	91	KTTS 1000	183609	95
KLTDV 400 F	938827	222	KTA 700 E3	770809	75	KTTS 200	182800	95
KLTDV 500	938780	222	KTA 700 E3	770809	91	KTTS 300	182909	95
KLTDV 500 E3	938889	222	KTA 800	188109	75	KTTS 400	183005	95
KLTDV 500 F	938834	222	KTA 800	188109	91	KTTS 500	183104	95
KLTDV 600	938797	222	KTA 800 E3	770823	75	KTTS 600	183203	95
KLTDV 600 E3	938896	222	KTA 800 E3	770823	91	KTTS 700	183302	95
KLTDV 600 F	938841	222	KTA 900	188208	75	KTTS 800	183401	95
KLWC 11	289608	217	KTA 900	188208	91	KTTS 900	183500	95
KLWC 11 F	570409	217	KTA 900 E3	770847	75	KTTS 1000	183692	77
KLWC 16	289707	238	KTA 900 E3	770847	91	KTTS 200	183616	77
KLWC 16	289707	248	KTAM 100	186303	74	KTTS 300	183623	77
KLWC 16	289707	252	KTAM 100	186303	90	KTTS 400	183630	77
KLWC 16 E3	341641	238	KTAM 100 E3	840304	74	KTTS 500	183647	77
KLWC 16 E3	341641	248	KTAM 100 E3	840304	90	KTTS 600	183654	77
KLWC 16 E3	341641	252	KTAM 100 E5	728305	74	KTTS 700	183661	77
KLWC 16 F	570508	238	KTAM 100 E5	728305	90	KTTS 800	183678	77
KLWC 16 F	570508	248	KTAM 200	186402	74	KTTS 900	183685	77
KLWC 16 F	570508	252	KTAM 200	186402	90	KTUM 100	170425	81
KSR 20 A	946761	108	KTAM 200 E3	840328	74	KTUM 100 E3	329021	81
KSR 20 A	946761	145	KTAM 200 E3	840328	90	KTUM 100 E5	728220	81
KSR 30 A	946778	108	KTAM 200 E5	728404	74	KTUM 150	170432	81
KSR 30 A	946778	145	KTAM 200 E5	728404	90	KTUM 200	170449	81
KSR 40 A	946785	108	KTAM 300	186501	74	KTUM 200 E3	329045	81
KSR 40 A	946785	183	KTAM 300	186501	90	KTUM 200 E5	728244	81
KSV 100 F	906765	216	KTAM 300 E3	840342	74	KTUM 250	170456	81
KSV 100 S	906758	216	KTAM 300 E3	840342	90	KTUM 300	170463	81
KTA 100	186907	74	KTAM 300 E5	728503	74	KTUM 300 E3	329069	81
KTA 100	186907	90	KTAM 300 E5	728503	90	KTUM 300 E5	728268	81
KTA 100 E3	330003	74	KTAM 400	186600	74	KTUM 400	170487	81
KTA 100 E3	330003	90	KTAM 400	186600	90	KTUM 400 E3	329083	81
KTA 100 E5	842605	74	KTAM 400 E5	728602	74	KTUM 400 E5	728282	81
KTA 100 E5	842605	90	KTAM 400 E5	728602	90	KU 50	191901	80
KTA 1000	188307	75	KTAM 500	186709	74	KU 50 E3	330607	80
KTA 1000	188307	91	KTAM 500	186709	90	KU 50 E5	728800	80

LIST OF ITEMS

model no.	EAN code	page	model no.	EAN code	page	model no.	EAN code	page
KU 5050	191956	84	LLK 26.030 R	507597	260	LUAC 60.100	514403	265
KU 6040	891771	88	LLK 26.030 W	507207	260	LUAC 60.100 E3	523405	265
KU 6040 E3	892136	88	LLK 40.040	508976	261	LUAC 60.100 W	514656	265
KUDK 5050	194858	85	LLK 40.040 E3	520268	261	LUAC 60.150	514502	265
KUDK 6040	945153	89	LLK 40.040 R	813605	261	LUAC 60.150 W	514670	265
KUGK 50	195404	80	LLK 40.040 W	509485	261	LUAC 60.200	514601	265
KUGK 50 E3	770984	80	LLK 40.060	509003	261	LUAC 60.200 E3	523504	265
KUGPK 5050	195657	85	LLK 40.060 E3	520305	261	LUAC 60.200 W	514694	265
KUGPK 6040	945160	89	LLK 40.060 R	509423	261	LUAC 80.080	791903	265
KUGV 50	192106	80	LLK 40.060 W	509508	261	LUAC 80.080 E3	523542	265
KUGV 50 E3	770908	80	LLK 60.060	509102	261	LUAC 80.080 W	792108	265
KUGV 5050	192151	84	LLK 60.060 E3	520404	261	LUAD 60.060 E3	732708	266
KWV 100 F	906802	219	LLK 60.060 R	509430	261	LUAD 60.100 E3	732807	266
KWV 100 S	906796	219	LLK 60.060 W	509607	261	LUAD 60.200 E3	732906	266
LED 100.100	792559	270	LLK 60.100	509201	262	LUAE 60.060	766901	266
LED 100.100 E3	524563	270	LLK 60.100 E3	520503	262	LUAE 60.060 W	767304	266
LED 100.100 R	832996	270	LLK 60.100 R	509447	262	LUAE 60.100	767007	266
LED 100.100 W	792702	270	LLK 60.100 W	509706	262	LUAE 60.100 W	767403	266
LED 16.016	517725	261	LLK 60.150	509300	262	LUAE 60.150	767106	266
LED 16.030	517732	261	LLK 60.150 R	509454	262	LUAE 60.150 W	767502	266
LED 26.030	517749	261	LLK 60.150 W	509805	262	LUAE 60.200	767205	266
LED 40.040	517763	270	LLK 60.200	509409	262	LUAE 60.200 W	767601	266
LED 40.040 E3	524167	270	LLK 60.200 E3	520602	262	LUIB 100.100	790357	264
LED 40.040 R	832804	270	LLK 60.200 R	509461	262	LUIB 100.100 W	790555	264
LED 40.040 W	792603	270	LLK 60.200 W	509904	262	LUIB 100.100E3	521944	264
LED 40.060	517800	270	LLK 80.080	789702	262	LUIB 40.040	790203	264
LED 40.060 E3	524204	270	LLK 80.080 E3	520626	262	LUIB 40.040 E3	521562	264
LED 40.060 R	832835	270	LLK 80.080 R	813704	262	LUIB 40.040 W	790401	264
LED 40.060 W	708208	270	LLK 80.080 W	789801	262	LUIB 40.060	512201	264
LED 60.060	517909	270	LST 100	516667	263	LUIB 40.060 E3	521609	264
LED 60.060 E3	524303	270	LST 100 E3	524143	263	LUIB 40.060 W	512614	264
LED 60.060 R	832866	270	LST 16.016	516209	260	LUIB 60.060	512300	264
LED 60.060 W	708307	270	LST 16.030	516308	260	LUIB 60.060 E3	521708	264
LED 60.100	518005	270	LST 26.030	516407	260	LUIB 60.060 W	512638	264
LED 60.100 E3	524402	270	LST 40	516506	263	LUIB 60.100	512409	264
LED 60.100 R	832897	270	LST 40 E3	524006	263	LUIB 60.100 E3	521807	264
LED 60.100 W	708406	270	LST 60	516605	263	LUIB 60.100 W	512652	264
LED 60.150	518104	270	LST 60 E3	524105	263	LUIB 60.150	512508	264
LED 60.150 R	832927	270	LST 80	516643	263	LUIB 60.150 W	512676	264
LED 60.150 W	708505	270	LST 80 E3	524129	263	LUIB 60.200	512607	264
LED 60.200	518203	270	LSTA 16.016	516704	260	LUIB 60.200 E3	521906	264
LED 60.200 E3	524501	270	LSTA 16.030	516803	260	LUIB 60.200 W	512690	264
LED 60.200 R	832958	270	LSTA 26.030	516902	260	LUIB 80.080	790302	264
LED 60.200 W	708604	270	LUAB 100.100	790753	264	LUIB 80.080 E3	521920	264
LED 80.080	792504	270	LUAB 100.100 W	790951	264	LUIB 80.080 W	790500	264
LED 80.080 E3	524549	270	LUAB 100.100E3	522347	264	LUIC 100.100	791552	266
LED 80.080 R	832972	270	LUAB 40.040	790609	264	LUIC 100.100 W	791750	266
LED 80.080 W	792658	270	LUAB 40.040 E3	521968	264	LUIC 100.100E3	523146	266
LER 100.100	887750	271	LUAB 40.040 W	790807	264	LUIC 40.040	791408	266
LER 16.016	887606	261	LUAB 40.060	512706	264	LUIC 40.040 E3	522781	266
LER 16.030	887637	261	LUAB 40.060 E3	522002	264	LUIC 40.040 W	791606	266
LER 26.030	887668	261	LUAB 40.060 W	513116	264	LUIC 40.060	513703	266
LER 40.040	865109	271	LUAB 60.060	512805	264	LUIC 40.060 E3	522804	266
LER 40.060	865154	271	LUAB 60.060 E3	522101	264	LUIC 40.060 W	514113	266
LER 60.060	865208	271	LUAB 60.060 W	513130	264	LUIC 60.060	513802	266
LER 60.100	865253	271	LUAB 60.100	512904	264	LUIC 60.060 E3	522903	266
LER 80.080	887705	271	LUAB 60.100 E3	522200	264	LUIC 60.060 W	514137	266
LES 60.150	518258	271	LUAB 60.100 W	513154	264	LUIC 60.100	513901	266
LES 60.200	518265	271	LUAB 60.150	513000	264	LUIC 60.100 E3	523009	266
LHS 100.100 E2	517466	270	LUAB 60.150 W	513178	264	LUIC 60.100 W	514151	266
LHS 60.100 E2	517206	270	LUAB 60.200	513109	264	LUIC 60.150	514007	266
LHS 60.150 E2	517305	270	LUAB 60.200 E3	522309	264	LUIC 60.150 W	514175	266
LHS 60.200 E2	517404	270	LUAB 60.200 W	513192	264	LUIC 60.200	514106	266
LHS 80.080 E2	517442	270	LUAB 80.080	790708	264	LUIC 60.200 E3	523108	266
LLK 100.100	789757	262	LUAB 80.080 E3	522323	264	LUIC 60.200 W	514199	266
LLK 100.100 E3	520633	262	LUAB 80.080 W	790906	264	LUIC 80.080	791507	266
LLK 100.100 R	813759	262	LUAC 100.100	791958	265	LUIC 80.080 E3	523122	266
LLK 100.100 W	789856	262	LUAC 100.100 W	792153	265	LUIC 80.080 W	791705	266
LLK 16.016	506705	259	LUAC 100.100E3	523566	265	LUID 60.060 E3	732401	267
LLK 16.016 E3	519828	259	LUAC 40.040	791804	265	LUID 60.100 E3	732500	267
LLK 16.016 R	507559	259	LUAC 40.040 E3	523160	265	LUID 60.200 E3	732609	267
LLK 16.016 W	507009	259	LUAC 40.040 W	792009	265	LUIE 60.060	766109	267
LLK 16.030	506804	259	LUAC 40.060	514205	265	LUIE 60.060 W	766505	267
LLK 16.030 E3	519842	259	LUAC 40.060 E3	523207	265	LUIE 60.100	766208	267
LLK 16.030 R	507573	259	LUAC 40.060 W	514618	265	LUIE 60.100 W	766604	267
LLK 16.030 W	507108	259	LUAC 60.060	514304	265	LUIE 60.150	766307	267
LLK 26.030	506903	260	LUAC 60.060 E3	523306	265	LUIE 60.150 W	766703	267
LLK 26.030 E3	519866	260	LUAC 60.060 W	514632	265	LUIE 60.200	766406	267

model no.	EAN code	page	model no.	EAN code	page	model no.	EAN code	page
LUIE 60.200 W	766802	267	LUTC 80.080 E3	798704	268	M 10/1000 E3	769902	105
LUK 100.100	508945	262	LUTC 80.080 W	813858	268	M 10/130	202300	105
LUK 100.100 W	508969	262	LUWB 100.100	789955	265	M 10/1500	203307	105
LUK 40.040	508921	262	LUWB 100.100 W	790159	265	M 10/200	202409	105
LUK 40.040 E3	519880	262	LUWB 100.100E3	521548	265	M 10/300	202508	105
LUK 40.040 W	508952	262	LUWB 40.040	511648	265	M 10/400	202607	105
LUK 40.060	700004	262	LUWB 40.040 E3	521142	265	M 10/500	202706	105
LUK 40.060 E3	519903	262	LUWB 40.040 W	790005	265	M 10/600	202805	105
LUK 40.060 W	700509	262	LUWB 40.060	511709	265	M 10/700	202904	105
LUK 60.060	700103	262	LUWB 40.060 E3	521203	265	M 10/800	203000	105
LUK 60.060 E3	520008	262	LUWB 40.060 W	512119	265	M 10/90	202201	105
LUK 60.060 W	700608	262	LUWB 60.060	511808	265	M 10/900	203109	105
LUK 60.100	700202	262	LUWB 60.060 E3	521302	265	M 12/1000	345809	105
LUK 60.100 E3	520107	262	LUWB 60.060 W	512133	265	M 12/1000 E3	841608	105
LUK 60.100 W	700707	262	LUWB 60.100	511907	265	M 12/200	203512	105
LUK 60.150	700301	262	LUWB 60.100 E3	521401	265	M 12/300	203529	105
LUK 60.150 W	700806	262	LUWB 60.100 W	512157	265	M 12/400	203536	105
LUK 60.200	700400	262	LUWB 60.150	512003	265	M 12/500	203543	105
LUK 60.200 E3	520206	262	LUWB 60.150 W	512171	265	M 12/600	203550	105
LUK 60.200 W	700905	262	LUWB 60.200	512102	265	M 12/800	203574	105
LUK 80.080	508938	262	LUWB 60.200 E3	521500	265	M 8/100	201907	105
LUK 80.080 E3	520220	262	LUWB 60.200 W	512195	265	M 8/1000	203505	105
LUK 80.080 W	792801	262	LUWB 80.080	789900	265	M 8/200	202003	105
LUT 10.10.10	792351	269	LUWB 80.080 E3	521524	265	M 8/500	202102	105
LUT 10.10.10 W	516193	269	LUWB 80.080 W	790104	265	NKB 8X2	872091	203
LUT 10.10.10E3	523986	269	LUWC 100.100	791156	267	RA 110.050	764105	187
LUT 4.4.4	792207	269	LUWC 100.100 W	791354	267	RA 110.050	764105	207
LUT 4.4.4 E3	523924	269	LUWC 100.100E3	522767	267	RA 110.050 E3	840809	187
LUT 4.4.4 W	792405	269	LUWC 40.040	791002	267	RA 110.050 F	765102	187
LUT 4.6.4	792252	269	LUWC 40.040 E3	522361	267	RA 110.150	764303	187
LUT 4.6.4 E3	523948	269	LUWC 40.040 W	791200	267	RA 110.150 E3	840847	187
LUT 4.6.4 W	792450	269	LUWC 40.060	513208	267	RA 110.150 F	765300	187
LUT 6.10.10	515400	269	LUWC 40.060 E3	522408	267	RA 110.200	764402	187
LUT 6.10.10 E3	798827	269	LUWC 40.060 W	513611	267	RA 110.200	764402	207
LUT 6.10.10 W	709304	269	LUWC 60.060	513307	267	RA 110.200 E3	840861	187
LUT 6.10.6	515301	269	LUWC 60.060 E3	522507	267	RA 110.200 F	765409	187
LUT 6.10.6 E3	798810	269	LUWC 60.060 W	513635	267	RA 110.250	764501	187
LUT 6.10.6 W	516117	269	LUWC 60.100	513406	267	RA 110.250 E3	840885	187
LUT 6.15.10	515608	269	LUWC 60.100 E3	522606	267	RA 110.250 F	765508	187
LUT 6.15.10 W	516131	269	LUWC 60.100 W	513659	267	RA 110.350	764709	187
LUT 6.15.15	515707	269	LUWC 60.150	513505	267	RA 110.350 E3	840922	187
LUT 6.15.15 W	709403	269	LUWC 60.150 W	513673	267	RA 110.350 F	765706	187
LUT 6.15.6	515509	269	LUWC 60.200	513604	267	RA 110.400	764808	187
LUT 6.15.6 W	516124	269	LUWC 60.200 E3	522705	267	RA 110.400	764808	207
LUT 6.20.10	515905	269	LUWC 60.200 W	513697	267	RA 110.400 E3	840946	187
LUT 6.20.10 E3	798841	269	LUWC 80.080	791101	267	RA 110.400 F	765805	187
LUT 6.20.10 W	516155	269	LUWC 80.080 E3	522743	267	RA 110.500	764907	207
LUT 6.20.15	516001	269	LUWC 80.080 W	791309	267	RA 110.600	858606	207
LUT 6.20.15 W	516162	269	LUWD 60.060 E3	732104	268	RA 35.050	219315	151
LUT 6.20.20	516100	269	LUWD 60.100 E3	732203	268	RA 35.150	219346	151
LUT 6.20.20 E3	798858	269	LUWD 60.200 E3	732302	268	RA 60.050	763108	162
LUT 6.20.20 W	709502	269	LUWE 60.060	767700	268	RA 60.150	763306	162
LUT 6.20.6	515806	269	LUWE 60.060 W	768103	268	RA 60.150 F	928651	162
LUT 6.20.6 E3	798834	269	LUWE 60.100	767809	268	RA 60.200	763405	162
LUT 6.20.6 W	516148	269	LUWE 60.100 W	768202	268	RA 60.200 E3	845347	162
LUT 6.6.6	515202	269	LUWE 60.150	767908	268	RA 60.200 F	540747	162
LUT 6.6.6 E3	798803	269	LUWE 60.200	768004	268	RA 60.350	763702	162
LUT 6.6.6 W	709205	269	LUWE 60.200 W	768400	268	RA 60.400	763801	162
LUT 8.8.8	792306	269	LW 16	113408	115	RA 60.400 E3	845422	162
LUT 8.8.8 E3	523962	269	LW 22	113507	115	RA 60.400 F	540761	162
LUT 8.8.8 W	516186	269	LW 26	113606	115	RA 85.200	243341	174
LUTC 100.100	799855	268	LW 34	113705	115	RA 85.200 F	546749	174
LUTC 100.100 W	813902	268	LW 38	113804	115	RA 85.400	243365	174
LUTC 100.100E3	798728	268	LW 42	113903	115	RA 85.400 F	546763	174
LUTC 40.060	514700	268	LW 46	114009	115	RA 85.500	243372	174
LUTC 40.060 E3	523603	268	LW 50	114108	115	RA 85.500 F	546770	174
LUTC 40.060 W	515110	268	LW 54	114207	115	RA 85.600	243389	174
LUTC 60.060	514809	268	LW 58	787609	115	RA 85.600 F	546787	174
LUTC 60.060 E3	523702	268	LW 64	787708	115	RAW 110.100	764204	188
LUTC 60.060 W	515134	268	LW 70	794508	115	RAW 110.100	764204	207
LUTC 60.100	514908	268	LW 76	794607	115	RAW 110.100 E3	840823	188
LUTC 60.100 E3	523801	268	LW 82	794706	115	RAW 110.100 F	765201	188
LUTC 60.100 W	515158	268	LZTP 100	833009	263	RAW 110.300	764600	188
LUTC 60.150	515004	268	LZTP 100 E3	840403	263	RAW 110.300	764600	207
LUTC 60.150 W	515172	268	LZTP 150	833054	263	RAW 110.300 E3	840908	188
LUTC 60.200	515103	268	LZTP 200	833108	263	RAW 110.300 F	765607	188
LUTC 60.200 W	515196	268	LZTP 200 E3	840458	263	RAW 35.100	219339	152
LUTC 80.080	799800	268	M 10/1000	203208	105	RAW 60.100	763207	162

LIST OF ITEMS

model no.	EAN code	page	model no.	EAN code	page	model no.	EAN code	page
RAW 60.100 E3	845309	162	RBADVSR 200	863327	205	RD 500 E3	336609	191
RAW 60.100 F	540730	162	RBADVSR 300	863341	205	RD 500 F	263103	191
RAW 60.300	763603	162	RBADVSR 400	863365	205	RD 600	261109	191
RAW 60.300 E3	845385	162	RBADVSR 500	863372	205	RD 600 E3	336807	191
RAW 60.300 F	540754	162	RBADVSR 600	863396	205	RD 600 F	263301	191
RAW 85.100	243334	174	RBAS 110.100	862504	205	RDHF 9 E2	920457	198
RAW 85.100 F	546732	174	RBAS 110.200	862528	205	RDHFS 9 V	926282	209
RAW 85.300	243358	174	RBAS 110.300	862542	205	RDHK 110 E2	911868	198
RAW 85.300 F	546756	174	RBAS 110.400	862566	205	RDHK 60 E2	911851	198
RBA 110.100	251209	186	RBAS 110.500	862573	205	RDRS 2	270002	197
RBA 110.100 F	547401	186	RBAS 110.600	862597	205	RDRS 2 E3	337606	197
RBA 110.150	251254	186	RBAV 110.100	922406	186	RDRS 2/50	270101	197
RBA 110.150 F	547456	186	RBAV 110.150	922413	186	RDRS 2/50 E3	337651	197
RBA 110.200	251308	186	RBAV 110.200	922420	186	RDRS 9	269907	197
RBA 110.200 F	547500	186	RBAV 110.300	922444	186	RDRS 9 E3	337705	197
RBA 110.300	251407	186	RBAV 110.400	922468	186	RDRS 9 F	563463	197
RBA 110.300 F	547609	186	RBAV 60.100	923786	160	RDRS 9X2	269884	209
RBA 110.400	251506	186	RBAV 60.150	930456	160	RDS 100	936069	202
RBA 110.400 F	547708	186	RBAV 60.200	923809	160	RDS 200	936083	202
RBA 35.100	213702	151	RBAV 60.300	923823	160	RDS 300	936106	202
RBA 35.150	213801	151	RBAV 60.400	923847	160	RDS 400	936120	202
RBA 60.100	225200	161	RBAV 85.100	923663	172	RDS 500	936144	202
RBA 60.100 F	535200	161	RBAV 85.200	923687	172	RDS 600	936168	202
RBA 60.150	225309	161	RBAV 85.300	923700	172	RDSV 100	258208	145
RBA 60.150 F	535255	161	RBAV 85.400	923724	172	RDSV 100 E3	860609	145
RBA 60.200	225408	161	RBAV 85.500	923748	172	RDSV 100 F	258260	145
RBA 60.200 F	535309	161	RBAV 85.600	923762	172	RDSV 50	258109	145
RBA 60.300	225606	161	RBAVD 100	922529	192	RDSV 50 E3	860500	145
RBA 60.300 F	535408	161	RBAVD 150	930463	192	RDSV 50 F	258246	145
RBA 60.400	225705	161	RBAVD 200	922543	192	RDV 100	261406	191
RBA 60.400 F	535507	161	RBAVD 300	922567	192	RDV 100	261406	222
RBA 85.100	237807	173	RBAVD 400	922581	192	RDV 100 E3	336906	191
RBA 85.100 F	541409	173	RBAVD 500	922604	192	RDV 100 E3	336906	222
RBA 85.200	237906	173	RBAVD 600	922628	192	RDV 100 E5	891009	191
RBA 85.200 F	541508	173	RBAVDS 100	924165	204	RDV 100 F	263608	191
RBA 85.300	238002	173	RBAVDS 200	924189	204	RDV 100 F	263608	222
RBA 85.300 F	541607	173	RBAVDS 300	924202	204	RDV 150	261505	191
RBA 85.400	238101	173	RBAVDS 400	924226	204	RDV 150	261505	222
RBA 85.400 F	541706	173	RBAVDS 500	924240	204	RDV 150 F	263707	191
RBA 85.500	238200	173	RBAVDS 600	924264	204	RDV 150 F	263707	222
RBA 85.500 F	541805	173	RBAVDSRS 100	925322	204	RDV 200	261604	191
RBA 85.600	238309	173	RBAVDSRS 200	925346	204	RDV 200	261604	222
RBA 85.600 F	541904	173	RBAVDSRS 300	925360	204	RDV 200 E3	337002	191
RBAD 100	264506	193	RBAVDSRS 400	925384	204	RDV 200 E3	337002	222
RBAD 100 F	554508	193	RBAVDSRS 500	925407	204	RDV 200 E5	891023	191
RBAD 150	264605	193	RBAVDSRS 600	925421	204	RDV 200 F	263806	191
RBAD 150 F	554607	193	RBAVS 110.100	924042	204	RDV 200 F	263806	222
RBAD 200	264704	193	RBAVS 110.200	924066	204	RDV 300	261802	191
RBAD 200 F	554706	193	RBAVS 110.300	924080	204	RDV 300	261802	222
RBAD 300	264902	193	RBAVS 110.400	924103	204	RDV 300 E3	337101	191
RBAD 300 F	554904	193	RBAVS 110.500	924127	204	RDV 300 E3	337101	222
RBAD 400	265008	193	RBAVS 110.600	924141	204	RDV 300 E5	891047	191
RBAD 400 F	555000	193	RCB 100	197507	97	RDV 300 F	264001	191
RBAD 500	265107	193	RCB 120	197552	97	RDV 300 F	264001	222
RBAD 500 F	555109	193	RCB 150	197606	97	RDV 400	261901	191
RBAD 600	265305	193	RCB 200	197705	97	RDV 400	261901	222
RBAD 600 F	555307	193	RCB 250	197804	97	RDV 400 E3	337200	191
RBADV 100	275106	193	RCB 300	197903	97	RDV 400 E3	337200	222
RBADV 100 F	555406	193	RCB 50	197309	97	RDV 400 E5	891061	191
RBADV 150	275205	193	RCB 70	197354	97	RDV 400 F	264100	191
RBADV 150 F	555505	193	RCB 75	197408	97	RDV 400 F	264100	222
RBADV 200	275304	193	RD 100	260300	191	RDV 50	261208	142
RBADV 200 F	555604	193	RD 100 E3	336203	191	RDV 50 F	263400	142
RBADV 300	275502	193	RD 100 F	262502	191	RDV 500	262007	191
RBADV 300 F	555802	193	RD 150	260409	191	RDV 500	262007	222
RBADV 400	275601	193	RD 150 F	262601	191	RDV 500 E3	337309	191
RBADV 400 F	555901	193	RD 200	260508	191	RDV 500 E3	337309	222
RBADV 500	275700	193	RD 200 E3	336302	191	RDV 500 F	264209	191
RBADV 500 F	556007	193	RD 200 F	262700	191	RDV 500 F	264209	222
RBADV 600	275908	193	RD 300	260706	191	RDV 600	262205	191
RBADV 600 F	556205	193	RD 300 E3	336401	191	RDV 600	262205	222
RBADVS 100	863105	205	RD 300 F	262908	191	RDV 600 E3	337507	191
RBADVS 200	863129	205	RD 400	260805	191	RDV 600 E3	337507	222
RBADVS 300	863143	205	RD 400 E3	336500	191	RDV 600 F	264407	191
RBADVS 400	863167	205	RD 400 F	263004	191	RDV 600 F	264407	222
RBADVS 500	863174	205	RD 50	260102	142	RDVS 100	855605	202
RBADVS 600	863198	205	RD 50 F	262304	142	RDVS 200	855629	202
RBADVSR 100	863303	205	RD 500	260904	191	RDVS 300	855643	202

model no.	EAN code	page	model no.	EAN code	page	model no.	EAN code	page
RDVS 400	855667	202	RESD 500	266302	193	RFDDV 85.200	927869	196
RDVS 500	855681	202	RESD 500 F	556908	193	RFDDV 85.300	927883	196
RDVS 600	855704	202	RESD 600	266500	193	RFDDV 85.400	927906	196
RDVSRS 100	862108	203	RESD 600 F	557103	193	RFDDV 85.500	927920	196
RDVSRS 200	862122	203	RESDV 100	276202	194	RFDDV 85.600	927944	196
RDVSRS 300	862146	203	RESDV 100 E3	338405	194	RFSDDV 60.100	844524	196
RDVSRS 400	862160	203	RESDV 100 F	557202	194	RFSDDV 60.150	844562	196
RDVSRS 500	862177	203	RESDV 150	276301	194	RFSDDV 60.200	844586	196
RDVSRS 600	862191	203	RESDV 150 F	557301	194	RFSDDV 60.300	844623	196
RDVSRSL 100	917464	202	RESDV 200	275007	194	RFSDDV 60.400	844647	196
RDVSRSL 200	917488	202	RESDV 200 E3	338504	194	RFSDDV 60.500	844661	196
RDVSRSL 300	917501	202	RESDV 200 F	557400	194	RFSDDV 60.600	844685	196
RDVSRSL 400	917525	202	RESDV 300	274901	194	RGE 110.100	256006	188
RDVSRSL 500	917549	202	RESDV 300 E3	338603	194	RGE 110.100 F	551804	188
RDVSRSL 600	917563	202	RESDV 300 F	557608	194	RGE 110.150	256051	188
REBA 100	197293	96	RESDV 400	276509	194	RGE 110.150 F	551859	188
REBA 100 E3	911974	96	RESDV 400 E3	338702	194	RGE 110.200	256105	188
REBA 50	197279	96	RESDV 400 F	557707	194	RGE 110.200 F	551903	188
REBA 50 E3	911950	96	RESDV 500	276608	194	RGE 110.300	256204	188
REBA 60	197286	96	RESDV 500 E3	338801	194	RGE 110.300 F	552009	188
REBA 60 E3	911967	96	RESDV 500 F	557806	194	RGE 110.400	256303	188
REK 110	253203	186	RESDV 600	276806	194	RGE 110.400 F	552108	188
REK 110 E3	334902	186	RESDV 600 E3	338900	194	RGE 60.100	231201	163
REK 110 F	549207	186	RESDV 600 F	558001	194	RGE 60.100 F	539802	163
REK 60	227600	160	RESDVS 100	863501	206	RGE 60.150	231300	163
REK 60 E3	334803	160	RESDVS 200	863525	206	RGE 60.150 F	539857	163
REK 60 E5	729500	160	RESDVS 300	863549	206	RGE 60.200	231409	163
REK 60 F	537006	160	RESDVS 400	863563	206	RGE 60.200 F	539901	163
REK 85	239603	172	RESDVS 500	863570	206	RGE 60.300	231607	163
REK 85 F	543205	172	RESDVS 600	863594	206	RGE 60.300 F	540006	163
RES 110.100	251803	186	RESDVRS 100	863709	206	RGE 60.400	231706	163
RES 110.100 F	548002	186	RESDVRS 200	863723	206	RGE 60.400 F	540105	163
RES 110.150	251858	186	RESDVRS 300	863747	206	RGE 85.100	242405	175
RES 110.150 F	548057	186	RESDVRS 400	863761	206	RGE 85.100 F	545803	175
RES 110.200	251902	186	RESDVRS 500	863778	206	RGE 85.200	242504	175
RES 110.200 F	548101	186	RESDVRS 600	863792	206	RGE 85.200 F	545902	175
RES 110.300	252008	186	RESK 35.050	210206	146	RGE 85.300	242603	175
RES 110.300 F	548200	186	RESK 35.050 F	893508	146	RGE 85.300 F	546008	175
RES 110.400	252107	186	RESK 50.050	210305	146	RGE 85.400	242702	175
RES 110.400 F	548309	186	RESK 50.050 F	893560	146	RGE 85.400 F	546107	175
RES 35.100	214303	151	RESK 50.100	210503	146	RGE 85.500	242801	175
RES 35.150	214402	151	RESKD 100	265602	146	RGE 85.500 F	546206	175
RES 60.100	226009	161	RESKD 50	265404	146	RGE 85.600	242900	175
RES 60.100 E3	333561	161	RESS 110.100	862702	206	RGE 85.600 F	546305	175
RES 60.100 F	535804	161	RESS 110.200	862726	206	RGS 110.100	255405	188
RES 60.150	226108	161	RESS 110.300	862740	206	RGS 110.100 F	551200	188
RES 60.150 F	535859	161	RESS 110.400	862764	206	RGS 110.150	255450	188
RES 60.200	226207	161	RESS 110.500	862771	206	RGS 110.150 F	551255	188
RES 60.200 E3	333578	161	RESS 110.600	862795	206	RGS 110.200	255504	188
RES 60.200 F	535903	161	RFB 110.100	814350	189	RGS 110.200 F	551309	188
RES 60.300	226405	161	RFB 110.150	814404	189	RGS 110.300	255603	188
RES 60.300 E3	333585	161	RFB 110.200	814459	189	RGS 110.300 F	551408	188
RES 60.300 F	536009	161	RFB 110.300	814503	189	RGS 110.400	255702	188
RES 60.400	226504	161	RFB 110.400	814558	189	RGS 110.400 F	551507	188
RES 60.400 E3	845200	161	RFD 110.100	927722	189	RGS 60.100	230402	163
RES 60.400 F	536108	161	RFD 110.150	927739	189	RGS 60.100 F	539208	163
RES 85.100	238408	173	RFD 110.200	927746	189	RGS 60.150	230501	163
RES 85.100 F	542000	173	RFD 110.300	927760	189	RGS 60.150 F	539253	163
RES 85.200	238507	173	RFD 110.400	927784	189	RGS 60.200	230600	163
RES 85.200 F	542109	173	RFD 60.100	844319	164	RGS 60.200 F	539307	163
RES 85.300	238606	173	RFD 60.150	844333	164	RGS 60.300	230808	163
RES 85.300 F	542208	173	RFD 60.200	844340	164	RGS 60.300 F	539406	163
RES 85.400	238705	173	RFD 60.300	844364	164	RGS 60.400	230907	163
RES 85.400 F	542307	173	RFD 60.400	844371	164	RGS 60.400 F	539505	163
RES 85.500	238804	173	RFD 85.100	927609	176	RGS 85.100	241804	175
RES 85.500 F	542406	173	RFD 85.200	927623	176	RGS 85.100 F	545209	175
RES 85.600	238903	173	RFD 85.300	927647	176	RGS 85.200	241903	175
RES 85.600 F	542505	173	RFD 85.400	927661	176	RGS 85.200 F	545308	175
RESD 100	265701	193	RFD 85.500	927685	176	RGS 85.300	242009	175
RESD 100 F	556304	193	RFD 85.600	927708	176	RGS 85.300 F	545407	175
RESD 150	265800	193	RFDDV 110.100	927968	196	RGS 85.400	242108	175
RESD 150 F	556403	193	RFDDV 110.150	927975	196	RGS 85.400 F	545506	175
RESD 200	265909	193	RFDDV 110.200	927982	196	RGS 85.500	242207	175
RESD 200 F	556502	193	RFDDV 110.300	928002	196	RGS 85.500 F	545605	175
RESD 300	266104	193	RFDDV 110.400	928026	196	RGS 85.600	242306	175
RESD 300 F	556700	193	RFDDV 110.500	928040	196	RGS 85.600 F	545704	175
RESD 400	266203	193	RFDDV 110.600	928064	196	RGV 110	253302	188
RESD 400 F	556809	193	RFDDV 85.100	927845	196	RGV 110 E3	335107	188

LIST OF ITEMS

model no.	EAN code	page	model no.	EAN code	page	model no.	EAN code	page
RGV 110 F	253401	188	RKSD 100 F	561704	195	RLU 60.100 F	221301	157
RGV 35	215607	152	RKSD 150	269105	195	RLU 60.150	219704	157
RGV 60	227709	162	RKSD 150 F	561803	195	RLU 60.200	219902	157
RGV 60 E3	335008	162	RKSD 200	269204	195	RLU 60.200 E3	331703	157
RGV 60 F	227808	162	RKSD 200 F	561902	195	RLU 60.200 F	221608	157
RGV 85	239702	174	RKSD 300	269402	195	RLU 60.300	220304	157
RGV 85 F	239801	174	RKSD 300 F	562107	195	RLU 60.300 E3	331802	157
RKB 100	270200	164	RKSD 400	269501	195	RLU 60.300 F	221905	157
RKB 100	270200	177	RKSD 400 F	562206	195	RLU 60.400	220601	157
RKB 100	270200	190	RKSD 500	269600	195	RLU 60.400 E3	331901	157
RKB 100 E3	335503	190	RKSD 500 F	562305	195	RLU 60.400 F	222100	157
RKB 100 F	563500	164	RKSD 600	269808	195	RLU 85.100	232901	169
RKB 100 F	563500	177	RKSD 600 F	562503	195	RLU 85.100 F	234103	169
RKB 100 F	563500	190	RKSDV 100	278701	195	RLU 85.200	233106	169
RKB 150	270309	164	RKSDV 100 F	562602	195	RLU 85.200 F	234301	169
RKB 150	270309	190	RKSDV 150	278800	195	RLU 85.300	233304	169
RKB 150 F	563609	164	RKSDV 150 F	562701	195	RLU 85.300 F	234509	169
RKB 150 F	563609	190	RKSDV 200	278909	195	RLU 85.400	233502	169
RKB 200	270408	164	RKSDV 200 F	562800	195	RLU 85.400 F	234707	169
RKB 200	270408	177	RKSDV 300	279104	195	RLU 85.500	233700	169
RKB 200	270408	190	RKSDV 300 F	563005	195	RLU 85.500 F	234905	169
RKB 200 E3	335602	190	RKSDV 400	279203	195	RLU 85.600	233908	169
RKB 200 F	563708	164	RKSDV 400 F	563104	195	RLU 85.600 F	235100	169
RKB 200 F	563708	177	RKSDV 500	279302	195	RLV 60.100	257300	157
RKB 200 F	563708	190	RKSDV 500 F	563203	195	RLV 60.100 E3	331000	157
RKB 300	270606	164	RKSDV 600	279500	195	RLV 60.100 E5	729609	157
RKB 300	270606	177	RKSDV 600 F	563401	195	RLV 60.150	257355	157
RKB 300	270606	190	RL 110.100	243402	181	RLV 60.200	257409	157
RKB 300 E3	335701	190	RL 110.100 E3	332205	181	RLV 60.200 E3	331109	157
RKB 300 F	563906	164	RL 110.100 F	244607	181	RLV 60.200 E5	729708	157
RKB 300 F	563906	177	RL 110.200	243501	181	RLV 60.300	252558	157
RKB 300 F	563906	190	RL 110.200 E3	332304	181	RLV 60.300 E3	331208	157
RKB 400	270705	164	RL 110.200 F	244805	181	RLV 60.300 E5	729807	157
RKB 400	270705	177	RL 110.300	243600	181	RLV 60.400	257607	157
RKB 400	270705	190	RL 110.300 E3	332403	181	RLV 60.400 E3	331307	157
RKB 400 E3	335800	190	RL 110.300 F	245000	181	RLV 60.400 E5	729852	157
RKB 400 F	564002	164	RL 110.400	243709	181	RMP 130	206148	99
RKB 400 F	564002	177	RL 110.400 E3	332502	181	RMP 130 E3	769728	99
RKB 400 F	564002	190	RL 110.400 F	245208	181	RMP 130 F	206162	99
RKB 500	270804	177	RL 35.050	209309	142	RS 110.100	245802	182
RKB 500 F	564101	177	RL 35.050 F	209453	142	RS 110.100 F	247004	182
RKB 600	271009	177	RL 35.050/6	209903	142	RS 110.200	246007	182
RKB 600 F	564309	177	RL 35.100	211708	150	RS 110.200 F	247202	182
RKBA 10	206100	108	RL 35.150	211906	150	RS 110.300	246205	182
RKBA 10 E4	729050	108	RL 50.050	209507	142	RS 110.300 F	247400	182
RKS 110.100	254804	187	RL 50.050 F	209644	142	RS 110.400	246403	182
RKS 110.100 F	550609	187	RL 50.050/6	210008	142	RS 110.400 F	247608	182
RKS 110.150	254859	187	RL 85.100	232802	169	RS 60.100	222605	158
RKS 110.150 F	550654	187	RL 85.100 F	234004	169	RS 60.100 F	223800	158
RKS 110.200	254903	187	RL 85.200	233007	169	RS 60.200	222803	158
RKS 110.200 F	550708	187	RL 85.200 F	234202	169	RS 60.200 F	224005	158
RKS 110.300	255009	187	RL 85.300	233205	169	RS 60.300	223008	158
RKS 110.300 F	550807	187	RL 85.300 F	234400	169	RS 60.300 F	224203	158
RKS 110.400	255108	187	RL 85.400	233403	169	RS 60.400	223206	158
RKS 110.400 F	550906	187	RL 85.400 F	234608	169	RS 60.400 F	224401	158
RKS 60.100	229604	162	RL 85.500	233601	169	RS 85.100	235209	170
RKS 60.100 F	538607	162	RL 85.500 F	234806	169	RS 85.100 F	236404	170
RKS 60.150	229703	162	RL 85.600	233809	169	RS 85.200	235407	170
RKS 60.150 F	538652	162	RL 85.600 F	235001	169	RS 85.200 F	236602	170
RKS 60.200	229802	162	RLU 110.100	244003	181	RS 85.300	235605	170
RKS 60.200 F	538706	162	RLU 110.100 E3	332809	181	RS 85.300 F	236800	170
RKS 60.300	230006	162	RLU 110.100 F	244706	181	RS 85.400	235803	170
RKS 60.300 F	538805	162	RLU 110.200	244102	181	RS 85.400 F	237005	170
RKS 60.400	230105	162	RLU 110.200 E3	332908	181	RS 85.500	236008	170
RKS 60.400 F	538904	162	RLU 110.200 F	244904	181	RS 85.500 F	237203	170
RKS 85.100	241200	174	RLU 110.300	244201	181	RS 85.600	236206	170
RKS 85.100 F	544608	174	RLU 110.300 E3	333004	181	RS 85.600 F	237401	170
RKS 85.200	241309	174	RLU 110.300 F	245109	181	RSB 110.100	814008	189
RKS 85.200 F	544707	174	RLU 110.400	244300	181	RSB 110.150	814053	189
RKS 85.300	241408	174	RLU 110.400 E3	333103	181	RSB 110.200	814107	189
RKS 85.300 F	544806	174	RLU 110.400 F	245307	181	RSB 110.300	814152	189
RKS 85.400	241507	174	RLU 35.050	209408	142	RSB 110.400	814206	189
RKS 85.400 F	544905	174	RLU 35.100	211807	150	RSD 110.100	928200	189
RKS 85.500	241606	174	RLU 35.150	212002	150	RSD 110.150	928217	189
RKS 85.500 F	545001	174	RLU 50.050	209606	142	RSD 110.200	928224	189
RKS 85.600	241705	174	RLU 50.075	209804	142	RSD 110.300	928248	189
RKS 85.600 F	545100	174	RLU 60.100	219506	157	RSD 110.400	928262	189
RKSD 100	269006	195	RLU 60.100 E3	331604	157	RSD 60.100	844418	163

model no.	EAN code	page	model no.	EAN code	page	model no.	EAN code	page
RSD 60.150	844432	163	RSV 110.200	259205	183	RTADV 300	274802	192
RSD 60.200	844449	163	RSV 110.200 F	553808	183	RTADV 300 E3	339808	192
RSD 60.300	844463	163	RSV 110.300	259304	183	RTADV 300 F	559404	192
RSD 60.400	844470	163	RSV 110.300 F	553907	183	RTADV 400	277506	192
RSD 85.100	928088	175	RSV 110.400	259403	183	RTADV 400 E3	339907	192
RSD 85.200	928101	175	RSV 110.400 F	554003	183	RTADV 400 F	559503	192
RSD 85.300	928125	175	RSV 50.050	257706	144	RTADV 500	277605	192
RSD 85.400	928149	175	RSV 50.050 E3	333523	144	RTADV 500 E3	340002	192
RSD 85.500	928163	175	RSV 50.050 F	258307	144	RTADV 500 F	559602	192
RSD 85.600	928187	175	RSV 50.050/6	257751	144	RTADV 600	277803	192
RSDDV 110.100	928446	197	RSV 50.100	257805	144	RTADV 600 E3	340101	192
RSDDV 110.150	928453	197	RSV 50.100 E3	333547	144	RTADV 600 F	559800	192
RSDDV 110.200	928460	197	RSV 50.100 F	258406	144	RTADVS 100	863600	205
RSDDV 110.300	928484	197	RSV 50.100/6	257850	144	RTADVS 200	863624	205
RSDDV 110.400	928507	197	RTA 110.100	252503	185	RTADVS 300	863648	205
RSDDV 110.500	928521	197	RTA 110.100 E3	334209	185	RTADVS 400	863655	205
RSDDV 110.600	928545	197	RTA 110.100 F	548606	185	RTADVS 500	863662	205
RSDDV 85.100	928323	196	RTA 110.150	252602	185	RTADVS 600	863686	205
RSDDV 85.200	928347	196	RTA 110.150 F	548651	185	RTADVRS 100	863808	205
RSDDV 85.300	928361	196	RTA 110.200	252701	185	RTADVRS 200	863822	205
RSDDV 85.400	928385	196	RTA 110.200 E3	334308	185	RTADVRS 300	863846	205
RSDDV 85.500	928408	196	RTA 110.200 F	548705	185	RTADVRS 400	863853	205
RSDDV 85.600	928422	196	RTA 110.300	252800	185	RTADVRS 500	863860	205
RSL 400	305445	243	RTA 110.300 E3	334407	185	RTADVRS 600	863884	205
RSL 400 E3	726202	243	RTA 110.300 F	548804	185	RTAK 35.050	210602	145
RSL 400 F	593149	243	RTA 110.400	252909	185	RTAK 35.050 F	893522	145
RSL 500	305469	243	RTA 110.400 E3	334506	185	RTAK 50.050	210701	145
RSL 500 E3	726301	243	RTA 110.400 F	548903	185	RTAK 50.050 F	893584	145
RSL 500 F	424214	243	RTA 35.100	214907	151	RTAK 50.100	210909	145
RSL 600	305483	243	RTA 35.150	215003	151	RTAKDV 100	274307	145
RSL 600 E3	726400	243	RTA 60.100	226801	160	RTAKDV 50	276905	145
RSL 600 F	593187	243	RTA 60.100 E3	333608	160	RTAS 110.100	862801	204
RSQLS110.100OV	861804	202	RTA 60.100 F	536405	160	RTAS 110.200	862825	204
RSQLS110.200OV	861828	202	RTA 60.150	226900	160	RTAS 110.300	862849	204
RSQLS110.300OV	861842	202	RTA 60.150 F	536450	160	RTAS 110.400	862856	204
RSQLS110.400OV	861866	202	RTA 60.200	227006	160	RTAS 110.500	862863	204
RSQLS110.500OV	861873	202	RTA 60.200 E3	333707	160	RTAS 110.600	862887	204
RSQLS110.600OV	861897	202	RTA 60.200 F	536504	160	RTL 110.150	793815	190
RSSTAA 108.100	924288	208	RTA 60.300	227204	160	RTL 110.200	793822	190
RSSTAA 108.200	924301	208	RTA 60.300 E3	333806	160	RTL 110.300	793846	190
RSSTAA 108.300	924325	208	RTA 60.300 F	536603	160	RTL 110.400	793860	190
RSSTAA 108.400	924349	208	RTA 60.400	227303	160	RTL 60.100	793204	164
RSSTAA 108.500	924363	208	RTA 60.400 E3	333905	160	RTL 60.150	793211	164
RSSTAA 108.600	924387	208	RTA 60.400 F	536702	160	RTL 60.200	793228	164
RSSTAAS 88	927241	209	RTA 85.100	239009	172	RTL 60.300	793242	164
RSU 110.100	245901	182	RTA 85.100 F	542604	172	RTL 60.400	793266	164
RSU 110.100 F	247103	182	RTA 85.200	239108	172	RTL 85.100	793501	176
RSU 110.200	246106	182	RTA 85.200 F	542703	172	RTL 85.200	793525	176
RSU 110.200 F	247301	182	RTA 85.300	239207	172	RTL 85.300	793549	176
RSU 110.300	246304	182	RTA 85.300 F	542802	172	RTL 85.400	793563	176
RSU 110.300 F	247509	182	RTA 85.400	239306	172	RTL 85.500	793587	176
RSU 110.400	246502	182	RTA 85.400 F	542901	172	RTL 85.600	793600	176
RSU 110.400 F	247707	182	RTA 85.500	239405	172	RTPH 50	231973	159
RSU 60.100	222704	158	RTA 85.500 F	543007	172	RTPH 50	231973	171
RSU 60.100 F	223909	158	RTA 85.600	239504	172	RTPH 50	231973	185
RSU 60.200	222902	158	RTA 85.600 F	543106	172	RTPH 50 M6	961955	160
RSU 60.200 F	224104	158	RTAD 100	266906	192	RTPH 50 M6	961955	172
RSU 60.300	223107	158	RTAD 100 F	558100	192	RTPH 50 M6	961955	185
RSU 60.300 F	224302	158	RTAD 150	267002	192	RTQ 110.100	793921	190
RSU 60.400	223305	158	RTAD 150 F	558209	192	RTQ 110.150	793938	190
RSU 60.400 F	224500	158	RTAD 200	267101	192	RTQ 110.200	793945	190
RSU 85.100	235308	170	RTAD 200 F	558308	192	RTQ 110.300	793969	190
RSU 85.100 F	236503	170	RTAD 300	267309	192	RTQ 110.400	793983	190
RSU 85.200	235506	170	RTAD 300 F	558506	192	RTQ 60.100	793327	164
RSU 85.200 F	236701	170	RTAD 400	267408	192	RTQ 60.150	793334	164
RSU 85.300	235704	170	RTAD 400 F	558605	192	RTQ 60.200	793341	164
RSU 85.300 F	236909	170	RTAD 500	267507	192	RTQ 60.300	793365	164
RSU 85.400	235902	170	RTAD 500 F	558704	192	RTQ 60.400	793389	164
RSU 85.400 F	237104	170	RTAD 600	267705	192	RTQ 85.100	793624	176
RSU 85.500	236107	170	RTAD 600 F	558902	192	RTQ 85.200	793648	176
RSU 85.500 F	237302	170	RTADV 100	277100	192	RTQ 85.300	793662	176
RSU 85.600	236305	170	RTADV 100 E3	339600	192	RTQ 85.400	793686	176
RSU 85.600 F	237500	170	RTADV 100 F	559008	192	RTQ 85.500	793709	176
RSUV 110-1.5	862009	204	RTADV 150	277209	192	RTQ 85.600	793723	176
RSV 110.100	259069	183	RTADV 150 F	559107	192	RTS 110.100	254200	187
RSV 110.100 F	553655	183	RTADV 200	277308	192	RTS 110.100 F	550005	187
RSV 110.150	259106	183	RTADV 200 E3	339709	192	RTS 110.150	254255	187
RSV 110.150 F	553709	183	RTADV 200 F	559206	192	RTS 110.150 F	550050	187

LIST OF ITEMS

model no.	EAN code	page	model no.	EAN code	page	model no.	EAN code	page
RTS 110.200	254309	187	RTSS 110.200	862924	206	RVV 35	273102	150
RTS 110.200 F	550104	187	RTSS 110.300	862948	206	RVV 35 F	273157	143
RTS 110.300	254408	187	RTSS 110.400	862962	206	RVV 50	258604	145
RTS 110.300 F	550203	187	RTSS 110.500	862979	206	RVV 50	258604	159
RTS 110.400	254507	187	RTSS 110.600	862993	206	RVV 50 E3	335404	145
RTS 110.400 F	550302	187	RTV 110 E2	251162	129	RVV 50 E3	335404	159
RTS 35.100	216505	151	RTV 110 E2	251162	184	RVV 50 E5	729906	159
RTS 35.150	216604	151	RTV 110 E2	251162	242	RVV 50 F	258505	145
RTS 60.100	228805	161	RTV 110 E2	251162	252	RVV 50 F	258505	159
RTS 60.100 F	538003	161	RTV 35 E2	213658	129	RW 110	251001	129
RTS 60.150	228904	161	RTV 50 E2	224999	129	RW 110	251001	184
RTS 60.150 F	538058	161	RTV 50 E2	224999	159	RW 110	251001	242
RTS 60.200	229000	161	RTV 60 E2	225149	129	RW 110	251001	251
RTS 60.200 F	538102	161	RTV 60 E2	225149	159	RW 110 E3	333509	184
RTS 60.300	229208	161	RTV 85 E2	237753	129	RW 110 E3	333509	242
RTS 60.300 F	538201	161	RTV 85 E2	237753	171	RW 110 E3	333509	251
RTS 60.400	229307	161	RTV 85 E2	237753	217	RW 110 F	251100	129
RTS 60.400 F	538300	161	RTV 85 E2	237753	237	RW 110 F	251100	184
RTS 85.100	240609	173	RTV 85 E2	237753	248	RW 110 F	251100	242
RTS 85.100 F	544004	173	RUW 60 S	947454	99	RW 110 F	251100	251
RTS 85.200	240708	173	RV 110.100	273607	183	RW 35	213504	129
RTS 85.200 F	544103	173	RV 110.100 E3	920303	183	RW 35 F	213603	129
RTS 85.300	240807	173	RV 110.100 F	553105	183	RW 50	224951	129
RTS 85.300 F	544202	173	RV 110.150	273652	183	RW 50	224951	159
RTS 85.400	240906	173	RV 110.150 F	553150	183	RW 50 E3	333356	129
RTS 85.400 F	544301	173	RV 110.200	273706	183	RW 50 E3	333356	159
RTS 85.500	241002	173	RV 110.200 E3	920310	183	RW 60	225002	129
RTS 85.500 F	544400	173	RV 110.200 F	553204	183	RW 60	225002	159
RTS 85.600	241101	173	RV 110.300	273805	183	RW 60 E3	333400	159
RTS 85.600 F	544509	173	RV 110.300 E3	920327	183	RW 60 E5	729401	159
RTSD 100	268108	194	RV 110.300 F	553303	183	RW 60 F	225101	129
RTSD 100 F	559909	194	RV 110.400	273904	183	RW 60 F	225101	159
RTSD 150	268207	194	RV 110.400 E3	920334	183	RW 85	237609	129
RTSD 150 F	560004	194	RV 110.400 F	553402	183	RW 85	237609	171
RTSD 200	268306	194	RV 35.050	211401	143	RW 85	237609	216
RTSD 200 F	560103	194	RV 35.050 F	871506	143	RW 85	237609	237
RTSD 300	268504	194	RV 35.100	271108	150	RW 85	237609	248
RTSD 300 F	560301	194	RV 35.150	271207	150	RW 85 E3	333424	237
RTSD 400	268603	194	RV 50.050	211500	143	RW 85 E3	333424	248
RTSD 400 F	560400	194	RV 50.050 F	837601	143	RW 85 F	237708	129
RTSD 500	268702	194	RV 60.100	271702	158	RW 85 F	237708	171
RTSD 500 F	560509	194	RV 60.100 E3	336159	158	RW 85 F	237708	216
RTSD 600	268900	194	RV 60.100 F	540808	158	RW 85 F	237708	237
RTSD 600 F	560707	194	RV 60.150	271801	158	RW 85 F	237708	248
RTSDV 100	277902	195	RV 60.150 F	540853	158	RWTS 110-1.5	861934	203
RTSDV 100 F	560806	195	RV 60.200	271900	158	RWTS 110-2.0	861965	203
RTSDV 150	278008	195	RV 60.200 E3	920259	158	RZP 120/100	861408	208
RTSDV 150 F	560905	195	RV 60.200 F	540907	158	RZP 120/1000	861521	208
RTSDV 200	274703	195	RV 60.300	272105	158	RZP 120/200	861422	208
RTSDV 200 F	561001	195	RV 60.300 E3	920266	158	RZP 120/2000	861545	208
RTSDV 300	278206	195	RV 60.300 F	541003	158	RZP 120/300	861446	208
RTSDV 300 F	561209	195	RV 60.400	272204	158	RZP 120/3000	861569	208
RTSDV 400	278305	195	RV 60.400 E3	920273	158	RZP 120/400	861460	208
RTSDV 400 F	561308	195	RV 60.400 F	541102	158	RZP 120/500	861484	208
RTSDV 500	278404	195	RV 85.100	272501	171	RZP 120/600	861507	208
RTSDV 500 F	561407	195	RV 85.100 F	546800	171	RZP 50/100	191833	207
RTSDV 600	278602	195	RV 85.200	272600	171	RZP 50/200	847907	207
RTSDV 600 F	561605	195	RV 85.200 F	546909	171	RZP 50/300	847921	207
RTSDVS 100	863907	207	RV 85.300	272709	171	RZP 50/400	847945	207
RTSDVS 200	863921	207	RV 85.300 F	547005	171	RZP 50/500	847969	207
RTSDVS 300	863945	207	RV 85.400	272808	171	RZP 50/600	847983	207
RTSDVS 400	863969	207	RV 85.400 F	547104	171	RZP 80/100	191864	208
RTSDVS 500	863976	207	RV 85.500	272907	171	RZP 80/1000	861309	208
RTSDVS 600	863990	207	RV 85.500 F	547203	171	RZP 80/200	861200	208
RTSDVRS 100	864102	207	RV 85.600	273003	171	RZP 80/2000	861323	208
RTSDVRS 200	864126	207	RV 85.600 F	547302	171	RZP 80/300	861224	208
RTSDVRS 300	864140	207	RVV 110 E3	732005	184	RZP 80/3000	861347	208
RTSDVRS 400	864164	207	RVV 110.100	259663	184	RZP 80/400	861248	208
RTSDVRS 500	864171	207	RVV 110.100 F	554058	184	RZP 80/500	861262	208
RTSDVRS 600	864195	207	RVV 110.150	259700	184	RZP 80/600	861286	208
RTSK 35.050	211005	146	RVV 110.150 F	554102	184	RZPBL 25.90	861583	208
RTSK 35.050 F	893546	146	RVV 110.200	259809	184	SKC 86	933105	101
RTSK 50.050	211104	146	RVV 110.200 F	554201	184	SKC 88/96	926800	102
RTSK 50.050 F	893607	146	RVV 110.300	259908	184	SKI 80	912605	92
RTSK 50.100	211302	146	RVV 110.300 F	554300	184	SKK 100	918423	220
RTSKDV 100	274604	146	RVV 110.400	260003	184	SKM 10 X 25	207305	106
RTSKDV 50	274406	146	RVV 110.400 F	554409	184	SKM 10 X 25 E5	729302	106
RTSS 110.100	862900	206	RVV 35	273102	143	SKM 10 X 40	207404	106

model no.	EAN code	page	model no.	EAN code	page	model no.	EAN code	page
SKM 10 X 40 E3	344048	106	TW 150	204304	96	U 6040/400 F	891634	87
SKM 10 X 50	207503	106	TW 200	204403	96	U 6040/500 E3	892006	87
SKM 10 X 70	207541	106	TW 200 E3	769308	96	U 6040/500 F	891641	87
SKM 10 X 70 E3	344086	106	TW 200 F	204939	96	U 6040/600 E3	892013	87
SKM 10 X 80 F	886203	106	TW 250	204502	96	U 6040/600 F	891658	87
SKM 10 X 90 F	893485	106	TW 300	204601	96	U 6040/6000 E3	892129	87
SKM 12 X 70	207565	106	TW 300 E3	769407	96	U 6040/6000 F	891764	87
SKM 8 X 16	207107	106	TW 300 F	204953	96	U 6040/700 E3	892020	87
SKM 8 X 16 E5	729203	106	TW 400	204700	96	U 6040/700 F	891665	87
SKM 8 X 40 E3	343959	106	TW 400 E3	769506	96	U 6040/800 E3	892037	87
SKU 6040	912162	86	TW 400 F	204960	96	U 6040/800 F	891672	87
SMU 10	203703	105	TW 500	204809	96	U 6040/900 E3	892044	87
SMU 10 E3	344260	105	TW 500 E3	769605	96	U 6040/900 F	891689	87
SMU 12	344406	105	TW 500 F	204977	96	UD 24	171033	79
SMU 12 E3	344284	105	TW 600	204908	96	UD 24 E3	327652	79
SMU 8	203604	105	TW 600 E3	769704	96	UGM 10	209101	106
SPM 100 B	298907	227	TW 600 F	204984	96	UGM 10 E3	936854	106
SPM 1000 B	300006	227	U 50/1000	191604	79	UGM 6	208906	106
SPM 150 B	299003	227	U 50/1000 F	872749	79	UGM 6 E3	927258	106
SPM 200 B	299102	227	U 50/1500	191703	79	UGM 8	209002	106
SPM 250 B	299201	227	U 50/200	190805	79	UGM 8 E3	931248	106
SPM 300 B	299300	227	U 50/200 F	872503	79	VB 50	199303	79
SPM 3000 B	962068	227	U 50/2000	191802	79	VB 50	199303	83
SPM 400 B	299409	227	U 50/300	190904	79	VB 50 E3	330966	79
SPM 500 B	299508	227	U 50/300 F	872534	79	VB 50 E3	330966	83
SPM 600 B	299607	227	U 50/3000	190607	79	VB 50 E5	729005	79
SPM 700 B	299706	227	U 50/3000 E3	330805	79	VB 50 E5	729005	83
SPM 800 B	299805	227	U 50/3000 E5	728701	79	VB 6040	891788	87
SPM 900 B	299904	227	U 50/3000 F	190744	79	VB 6040 E3	892143	87
SSV 4141 F	898541	102	U 50/400	191000	79	VBI 80	199501	93
TKS 100	183906	72	U 50/400 F	872565	79	VBIQ 80	192809	93
TKS 100 E3	329106	72	U 50/500	191109	79	VBSM 10	345601	105
TKS 100 F	815500	72	U 50/500 F	872596	79	VBSM 12	345700	105
TKS 150	184002	72	U 50/600	191208	79	VBSM 8	345588	105
TKS 150 F	815524	72	U 50/600 F	872626	79	VP 50.50	209200	99
TKS 200	184101	72	U 50/6000	190706	79	WA 100	189809	98
TKS 200 E3	329205	72	U 50/6000 E3	330904	79	WA 150	189908	98
TKS 200 F	815548	72	U 50/6000 F	190768	79	WA 200	190003	98
TKS 250	184200	72	U 50/700	191307	79	WA 250	190102	98
TKS 250 F	815562	72	U 50/700 F	872657	79	WA 300	190201	98
TKS 300	184309	72	U 50/800	191406	79	WA 400	190300	98
TKS 300 E3	329304	72	U 50/800 F	872688	79	WA 500	190409	98
TKS 300 F	815586	72	U 50/900	191505	79	WA 600	190508	98
TKS 350	184408	72	U 50/900 F	872718	79	WBRDV 200	966400	255
TKS 350 F	815609	72	U 5050/1000 F	918706	83	WBRDV 200 E3	966509	255
TKS 400	184507	72	U 5050/1100 F	918720	83	WBRDV 200 F	966455	255
TKS 400 E3	329328	72	U 5050/1200 F	918744	83	WBRDV 300	966417	255
TKS 400 F	815623	72	U 5050/1500 F	918768	83	WBRDV 300 E3	966516	255
TKS 450	184606	72	U 5050/2000 F	918782	83	WBRDV 300 F	966462	255
TKS 450 F	815647	72	U 5050/300 F	918560	83	WBRDV 400	966424	255
TKS 500	184705	72	U 5050/3000 F	859306	83	WBRDV 400 E3	966523	255
TKS 500 E3	329342	72	U 5050/400 F	918584	83	WBRDV 400 F	966479	255
TKS 500 F	815661	72	U 5050/4500 F	859313	83	WBRDV 500	966431	255
TKS 600	184804	72	U 5050/500 F	918607	83	WBRDV 500 E3	966530	255
TKS 600 E3	329366	72	U 5050/600 F	918621	83	WBRDV 500 F	966486	255
TKS 600 F	815685	72	U 5050/6000 F	859320	83	WBRDV 600	966448	255
TKSD 20	185207	73	U 5050/700 F	918645	83	WBRDV 600 E3	966547	255
TKSD 20 E3	329649	73	U 5050/800 F	918669	83	WBRDV 600 F	966493	255
TKSD 20 F	185252	73	U 5050/900 F	918683	83	WDRS 20	310609	255
TKSK 30	348053	73	U 6040/1000 E3	892051	87	WDRS 20 E3	809004	255
TKSU 100	184903	73	U 6040/1000 F	891696	87	WDRS 20 F	596508	255
TKSU 200	185009	73	U 6040/1100 E3	892068	87	WDV 200	309801	254
TKSU 300	185108	73	U 6040/1100 F	891702	87	WDV 200 E3	806508	254
TPH 60	806003	263	U 6040/1200 E3	892075	87	WDV 200 F	596003	254
TPH 60 E3	840007	263	U 6040/1200 F	891719	87	WDV 300	309900	254
TPH 80	459278	263	U 6040/1500 E3	892082	87	WDV 300 E3	806522	254
TPH 80 E3	840052	263	U 6040/1500 F	891726	87	WDV 300 F	596102	254
TPS 30	459223	263	U 6040/200 E3	891962	87	WDV 400	310005	254
TPS 50	459247	263	U 6040/200 F	891603	87	WDV 400 E3	806546	254
TPS 50 E3	459216	263	U 6040/2000 E3	892099	87	WDV 400 F	596201	254
TPS 70	459261	263	U 6040/2000 F	891733	87	WDV 500	310104	254
TPS 90	720309	263	U 6040/250 E3	891979	87	WDV 500 E3	806560	254
TPS 90 E3	865406	263	U 6040/250 F	891610	87	WDV 500 F	596300	254
TRV 40	891795	99	U 6040/300 E3	891986	87	WDV 600	310203	254
TRV 40 E3	892150	99	U 6040/300 F	891627	87	WDV 600 E3	806584	254
TW 100	204205	96	U 6040/3000 E3	892105	87	WDV 600 F	596409	254
TW 100 E3	769209	96	U 6040/3000 F	891740	87	WLAB 200	899739	253
TW 100 F	204915	96	U 6040/400 E3	891993	87	WLAB 200 E3	900015	253

LIST OF ITEMS

model no.	EAN code	page	model no.	EAN code	page	model no.	EAN code	page
WLAB 200 F	900220	253	WRLM 150.400 F	893379	241	WRU 150.600	314102	240
WLAB 300	899746	253	WRLM 150.500	893331	241	WRU 150.600 F	591404	240
WLAB 300 E3	900022	253	WRLM 150.500 F	893386	241	WSBR 105.200	949731	249
WLAB 300 F	900237	253	WRLM 150.600	893348	241	WSBR 105.200 F	950669	249
WLAB 400	899753	253	WRLM 150.600 F	893393	241	WSBR 105.200E3	951383	249
WLAB 400 E3	900039	253	WRTAR 105.200	949106	238	WSBR 105.300	949748	249
WLAB 400 F	900244	253	WRTAR 105.200F	950034	238	WSBR 105.300 F	950676	249
WLAB 500	899760	253	WRTAR 105.300	949113	238	WSBR 105.300E3	951390	249
WLAB 500 E3	900046	253	WRTAR 105.300F	950041	238	WSBR 105.400	949755	249
WLAB 500 F	900251	253	WRTAR 105.400	949120	238	WSBR 105.400 F	950683	249
WLAB 600	899777	253	WRTAR 105.400F	950058	238	WSBR 105.400E3	951406	249
WLAB 600 E3	900053	253	WRTAR 105.500	949137	238	WSBR 105.500	949762	249
WLAB 600 F	900268	253	WRTAR 105.500F	950065	238	WSBR 105.500 F	950690	249
WRBR 105.200	949281	239	WRTAR 105.600	949144	238	WSBR 105.500E3	951413	249
WRBR 105.200 F	950218	239	WRTAR 105.600F	950072	238	WSBR 105.600	949779	249
WRBR 105.200E3	951086	239	WRTAR 150.200	949151	242	WSBR 105.600 F	950706	249
WRBR 105.300	949298	239	WRTAR 150.200F	950089	242	WSBR 105.600E3	951420	249
WRBR 105.300 F	950225	239	WRTAR 150.300	949168	242	WSBR 150.200	949786	253
WRBR 105.300E3	951093	239	WRTAR 150.300F	950096	242	WSBR 150.200 F	950713	253
WRBR 105.400	949304	239	WRTAR 150.400	949175	242	WSBR 150.200E3	951437	253
WRBR 105.400 F	950232	239	WRTAR 150.400F	950102	242	WSBR 150.300	949793	253
WRBR 105.400E3	951109	239	WRTAR 150.500	949182	242	WSBR 150.300 F	950720	253
WRBR 105.500	949311	239	WRTAR 150.500F	950119	242	WSBR 150.300E3	951444	253
WRBR 105.500 F	950249	239	WRTAR 150.600	949199	242	WSBR 150.400	949809	253
WRBR 105.500E3	951116	239	WRTAR 150.600F	950126	242	WSBR 150.400 F	950737	253
WRBR 105.600	949328	239	WRTAR105.200E3	950966	238	WSBR 150.400E3	951451	253
WRBR 105.600 F	950256	239	WRTAR105.300E3	950973	238	WSBR 150.500	949816	253
WRBR 105.600E3	951123	239	WRTAR105.400E3	950980	238	WSBR 150.500 F	950744	253
WRBR 150.200	949335	243	WRTAR105.500E3	950997	238	WSBR 150.500E3	951468	253
WRBR 150.200 F	950263	243	WRTAR105.600E3	951000	238	WSBR 150.600	949823	253
WRBR 150.200E3	951130	243	WRTR 105.200	949434	238	WSBR 150.600 F	950751	253
WRBR 150.300	949342	243	WRTR 105.200 F	950362	238	WSBR 150.600E3	951475	253
WRBR 150.300 F	950270	243	WRTR 105.200E3	951185	238	WSGV 105	305100	237
WRBR 150.300E3	951147	243	WRTR 105.300	949441	238	WSGV 105	305100	247
WRBR 150.400	949359	243	WRTR 105.300 F	950379	238	WSGV 105 E3	725304	237
WRBR 150.400 F	950287	243	WRTR 105.300E3	951192	238	WSGV 105 E3	725304	247
WRBR 150.400E3	951154	243	WRTR 105.400	949458	238	WSGV 105 F	590308	237
WRBR 150.500	949366	243	WRTR 105.400 F	950386	238	WSGV 105 F	590308	247
WRBR 150.500 F	950294	243	WRTR 105.400E3	951208	238	WSGV 150	305209	241
WRBR 150.500E3	951161	243	WRTR 105.500	949465	238	WSGV 150	305209	251
WRBR 150.600	949373	243	WRTR 105.500 F	950393	238	WSGV 150 E3	726004	241
WRBR 150.600 F	950300	243	WRTR 105.500E3	951215	238	WSGV 150 E3	726004	251
WRBR 150.600E3	951178	243	WRTR 105.600	949472	238	WSGV 150 F	593002	241
WRL 105.200	310708	236	WRTR 105.600 F	950409	238	WSGV 150 F	593002	251
WRL 105.200 E3	724802	236	WRTR 105.600E3	951222	238	WSL 105.200	300600	247
WRL 105.200 F	587803	236	WRTR 150.200	949489	243	WSL 105.200 E3	726509	247
WRL 105.300	310807	236	WRTR 150.200 F	950416	243	WSL 105.200 F	577606	247
WRL 105.300 E3	724826	236	WRTR 150.200E3	951239	243	WSL 105.300	300709	247
WRL 105.300 F	587902	236	WRTR 150.300	949496	243	WSL 105.300 E3	726523	247
WRL 105.400	310906	236	WRTR 150.300 F	950423	243	WSL 105.300 F	577705	247
WRL 105.400 E3	724840	236	WRTR 150.300E3	951246	243	WSL 105.400	300808	247
WRL 105.400 F	588008	236	WRTR 150.400	949502	243	WSL 105.400 E3	726547	247
WRL 105.500	311002	236	WRTR 150.400 F	950430	243	WSL 105.400 F	577804	247
WRL 105.500 E3	724864	236	WRTR 150.400E3	951253	243	WSL 105.500	300907	247
WRL 105.500 F	588107	236	WRTR 150.500	949519	243	WSL 105.500 E3	726561	247
WRL 105.600	311101	236	WRTR 150.500 F	950447	243	WSL 105.500 F	577903	247
WRL 105.600 E3	724888	236	WRTR 150.500E3	951260	243	WSL 105.600	301003	247
WRL 105.600 F	588206	236	WRTR 150.600	949526	243	WSL 105.600 E3	726585	247
WRL 150.200	313204	240	WRTR 150.600 F	950454	243	WSL 105.600 F	578009	247
WRL 150.200 E3	725502	240	WRTR 150.600E3	951277	243	WSL 150.200	301102	250
WRL 150.200 F	590506	240	WRU 105.200	311200	236	WSL 150.200 E3	727001	250
WRL 150.300	313303	240	WRU 105.200 F	588305	236	WSL 150.200 F	579600	250
WRL 150.300 E3	725526	240	WRU 105.300	311309	236	WSL 150.300	301201	250
WRL 150.300 F	590605	240	WRU 105.300 F	588404	236	WSL 150.300 E3	727025	250
WRL 150.400	313402	240	WRU 105.400	311408	236	WSL 150.300 F	579709	250
WRL 150.400 E3	725540	240	WRU 105.400 F	588503	236	WSL 150.400	301300	250
WRL 150.400 F	590704	240	WRU 105.500	311507	236	WSL 150.400 E3	727049	250
WRL 150.500	313501	240	WRU 105.500 F	588602	236	WSL 150.400 F	579808	250
WRL 150.500 E3	725564	240	WRU 105.600	311606	236	WSL 150.500	301508	250
WRL 150.500 F	590803	240	WRU 105.600 F	588701	236	WSL 150.500 E3	727063	250
WRL 150.600	313600	240	WRU 150.200	313709	240	WSL 150.500 F	579907	250
WRL 150.600 E3	725588	240	WRU 150.200 F	591008	240	WSL 150.600	301607	250
WRL 150.600 F	590902	240	WRU 150.300	313808	240	WSL 150.600 E3	727087	250
WRLM 150.200	893300	241	WRU 150.300 F	591107	240	WSL 150.600 F	580002	250
WRLM 150.200 F	893355	241	WRU 150.400	313907	240	WSLM 150.200	893409	250
WRLM 150.300	893317	241	WRU 150.400 F	591206	240	WSLM 150.200 F	579518	250
WRLM 150.300 F	893362	241	WRU 150.500	314003	240	WSLM 150.300	893416	250
WRLM 150.400	893324	241	WRU 150.500 F	591305	240	WSLM 150.300 F	579525	250

model no.	EAN code	page	model no.	EAN code	page	model no.	EAN code	page
WSLM 150.400	893423	250	WSTR 150.200	949939	252	WTARDV 500	966738	254
WSLM 150.400 F	579532	250	WSTR 150.200 F	950867	252	WTARDV 500 E3	966837	254
WSLM 150.500	893430	250	WSTR 150.200E3	951536	252	WTARDV 500 F	966783	254
WSLM 150.500 F	579549	250	WSTR 150.300	949946	252	WTARDV 600	966745	254
WSLM 150.600	893447	250	WSTR 150.300 F	950874	252	WTARDV 600 E3	966844	254
WSLM 150.600 F	579556	250	WSTR 150.300E3	951543	252	WTARDV 600 F	966790	254
WSTAR 105.200	949588	249	WSTR 150.400	949953	252	WTRDV 200	966554	254
WSTAR 105.200F	950515	249	WSTR 150.400 F	950881	252	WTRDV 200 E3	966653	254
WSTAR 105.300	949595	249	WSTR 150.400E3	951550	252	WTRDV 200 F	966608	254
WSTAR 105.300F	950522	249	WSTR 150.500	949960	252	WTRDV 300	966561	254
WSTAR 105.400	949601	249	WSTR 150.500 F	950898	252	WTRDV 300 E3	966660	254
WSTAR 105.400F	950539	249	WSTR 150.500E3	951567	252	WTRDV 300 F	966615	254
WSTAR 105.500	949618	249	WSTR 150.600	949977	252	WTRDV 400	966578	254
WSTAR 105.500F	950546	249	WSTR 150.600 F	950904	252	WTRDV 400 E3	966677	254
WSTAR 105.600	949625	249	WSTR 150.600E3	951574	252	WTRDV 400 F	966622	254
WSTAR 105.600F	950553	249	WSV 105.390	301959	237	WTRDV 500	966585	254
WSTAR 150.200	949632	252	WSV 105.390	301959	247	WTRDV 500 E3	966684	254
WSTAR 150.200F	950560	252	WSV 105.390 E3	340132	237	WTRDV 500 F	966639	254
WSTAR 150.300	949649	252	WSV 105.390 E3	340132	247	WTRDV 600	966592	254
WSTAR 150.300F	950577	252	WSV 105.390 F	302055	237	WTRDV 600 E3	966691	254
WSTAR 150.400	949656	252	WSV 105.390 F	302055	247	WTRDV 600 F	966646	254
WSTAR 150.400F	950584	252	WSV 150.500	301706	241	WWA 100	194759	98
WSTAR 150.500	949663	252	WSV 150.500	301706	251	WWA 100	194759	221
WSTAR 150.500F	950591	252	WSV 150.500 E3	340149	241	WWA 100	194759	255
WSTAR 150.600	949670	252	WSV 150.500 E3	340149	251	WWA 100 E3	344345	98
WSTAR 150.600F	950607	252	WSV 150.500 F	301805	241	WWA 100 E3	344345	255
WSTAR105.200E3	951284	249	WSV 150.500 F	301805	251	WWI 80	193004	94
WSTAR105.300E3	951291	249	WSWV 105.390	305377	237	WWU 150	194407	98
WSTAR105.400E3	951307	249	WSWV 105.390	305377	248	WWU 150/8	194506	221
WSTAR105.500E3	951314	249	WSWV 105.390 F	590452	237	WWU 150/8	194506	255
WSTAR105.600E3	951321	249	WSWV 105.390 F	590452	248	WWU 150/8 E3	344307	221
WSTB 2	305506	255	WSWV 105.390E3	725458	237	WWU 150/8 E3	344307	255
WSTB 2 E3	726424	255	WSWV 105.390E3	725458	248	WWU 150/8 E5	728909	221
WSTR 105.200	949885	249	WSWV 150	305407	242	ZCB 100	843022	97
WSTR 105.200 F	950812	249	WSWV 150	305407	251	ZCB 120	843046	97
WSTR 105.200E3	951482	249	WSWV 150 E3	726103	242	ZCB 150	843060	97
WSTR 105.300	949892	249	WSWV 150 E3	726103	251	ZCB 200	843084	97
WSTR 105.300 F	950829	249	WSWV 150 F	593101	242	ZCB 250	843107	97
WSTR 105.300E3	951499	249	WSWV 150 F	593101	251	ZCB 300	843121	97
WSTR 105.400	949908	249	WTARDV 200	966707	254	ZCB 400	860401	97
WSTR 105.400 F	950836	249	WTARDV 200 E3	966806	254	ZCB 70	843008	97
WSTR 105.400E3	951505	249	WTARDV 200 F	966752	254	ZSM 10	208708	106
WSTR 105.500	949915	249	WTARDV 300	966714	254	ZSM 12	208807	106
WSTR 105.500 F	950843	249	WTARDV 300 E3	966813	254	ZSM 4	208302	106
WSTR 105.500E3	951512	249	WTARDV 300 F	966769	254	ZSM 5	208401	106
WSTR 105.600	949922	249	WTARDV 400	966721	254	ZSM 6	208500	106
WSTR 105.600 F	950850	249	WTARDV 400 E3	966820	254	ZSM 8	208609	106
WSTR 105.600E3	951529	249	WTARDV 400 F	966776	254			

Niedax is a privately owned company established in 1920 by two German engineers. Alexander Niedergesäß and Fritz Axthelm saw the rising demand for electricity and consequently set their focus on manufacturing electrical installation material. Being a very innovative team, they received several patents over the years, eg. for the expansion anchor in 1928 and for the yoke clamp in 1954. In 1971 Niedax launched the cable tray production, which is today the core business of the company.

In 1997 Niedax started the expansion into Europe by founding a subsidiary in Austria followed by several strategical acquisitions all over Europe. Alinco, Electraplan, Kleinhuis & RICO became valuable members of the NIEDAX GROUP.

In February 2010 Niedax celebrated it's 90th anniversary and announced the acquisition of the French cable tray manufacturers EBO, CES and Tolmega.

Niedax is a well established and highly respected company in the niche market of Cable Management Systems and one of the largest manufacturers of steel cable trays worldwide. Niedax headquarters is in Linz, Germany. The nearby manufacturing plant is located on approx. 2 million square feet in the industrial area of St. Katharinen. The factory is divided into nearly 700,000 sq.ft. of covered manufacturing and 400,000 sq.ft. of covered storage space. The remaining area is open storage for raw materials and leaves room for future expansion. Niedax is a DIN ISO 9001:2000 certified company.

Our 1400 highly motivated employees in 20 countries, state of the art machinery and top quality production methods position us to succeed in business.



Alexander Niedergesäß

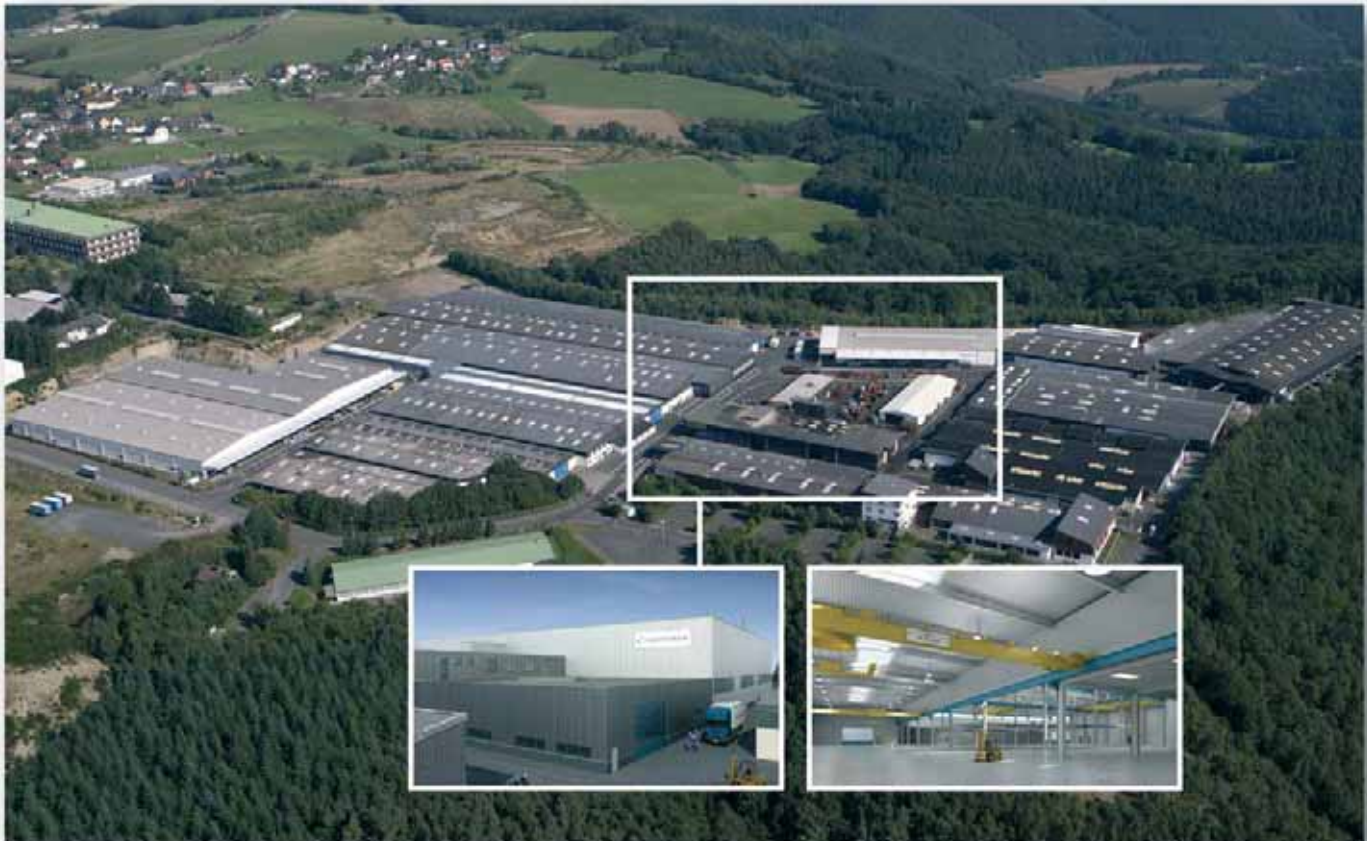


Fritz Axthelm



HISTORY

Begin 1920



Factory and central warehouse in Germany



Headquarters in Germany



Roll forming



Electric Galvanizing

REFERENCES

Niedax Cable Management Systems are used in residential, commercial, industrial and infrastructure type projects. Examples include hotels, office buildings, stadiums, warehouses, automotive plants, breweries, paper mills, steel plants, airports, bridges, power plants, tunnels, and more. Niedax's success is evidenced in projects in over 100 countries worldwide.



HSL Bridge, Moerdijk/Netherlands



Daimler Chrysler, Warsaw



Nürburgring, Germany



Emirates Cargo Mega Center, Dubai



Maintower, Frankfurt/Germany



Coal Power Plant, Neurath/Germany



Luxury Hotel Palais Coburg, Vienna



Rasselstein, Andernach/Germany



Apollo Bridge, Bratislava



Voest-Hochofen, Linz/Austria

REFERENCES



Steel Plant, Alabama



Steel Plant, Alabama



Steel Plant, Alabama



Steel Plant, Alabama



Automotive Industry, USA



Automotive Industry, USA



Beverage Industry, USA



Beverage Industry, USA



Beverage Industry, USA

Certificate

Standard **ISO 9001:2008**

Certificate Registr. No. 09 100 5506/07

TÜV Rheinland Cert GmbH certifies:

Certificate Holder:



Niedax GmbH & Co. KG
Ges. für Verlegungsmaterial
 Asbacher Str. 141 • D - 53545 Linz/Rh.

Including the location
 Industriestr. 44 • D - 53562 St. Katharinen (ZN 09 100 5506/12)

Scope:

Development, production and sale of
 cable management systems including hot-dip galvanizing

An audit was performed, Report No. 5506. Proof has been
 furnished that the requirements according to ISO 9001:2008
 are fulfilled.

Validity:

The certificate is valid in conjunction with the main certificate
 from 2010-06-28 until 2011-05-31.

Cologne, 2010-06-30

R. Schöpp

TÜV Rheinland Cert GmbH *)
 Am Grauen Stein • 51065 Köln



DGA-ZM-58-95-00

10500 4/28 E Ad © TÜV TÜV and TÜV are registered trademarks. Utilization and application requires prior approval.

www.tuv.com



TÜVRheinland®
 Precisely Right.

Certificate

Standard **ISO 9001:2008**

Certificate Registr. No. 09 100 5506/04

TÜV Rheinland Cert GmbH certifies:

Certificate Holder:



Niedax Galvanik GmbH
Königswinterer Str. 87 • D - 53227 Bonn

Scope: Surface refinement, electroplating

An audit was performed, Report No. 5506. Proof has been furnished that the requirements according to ISO 9001:2008 are fulfilled.

Validity: The certificate is valid in conjunction with the main certificate from 2010-06-28 until 2011-05-31.

Cologne, 2010-06-30


TÜV Rheinland Cert GmbH *)
Am Grauen Stein • 51105 Köln



DGA-ZM-58-95-00



the standard in safety

Underwriters
Laboratories

MR. DIRK SCHAEFER
NIEDAX GMBH & CO KG
ASBACHER STR 141
53545 LINZ AM RHEIN GERMANY

Date: 2008/05/30
Subscriber: 499956001
PartySite: 295804
File No: E233344
Project No: 07NK25031
PD No: 08M31675
Type: R
PO Number: SCHAEFER, DIRK

Subject: Procedure And/Or Report Material

The following material resulting from the investigation under the above numbers is enclosed.

Issue

Date	Vol	Sec	Pages	Revised Date
	1		New Section General Page(s) 5,6	2008/05/19
	1		Revised Section General Page(s) 2,3,4	2008/05/19
2003/04/16	1	1	New Description Page(s) 4A, 5A, 26	2008/05/19
2003/04/16	1	1	Revised Description Page(s) 1 thru 3, 3A, 4 thru 17, 19, 19A, 20, 20A, 21, 21A, 22, 23, 23A, 24, 25	2008/05/19
2003/04/16	1	1	New Test Record 7	2008/05/19
2003/04/16	1	1	New Illustration(s) 34 thru 80	2008/05/19

Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

NOTE: Follow-Up Service Procedure revisions DO NOT include Cover Pages, Test Records and Conclusion Pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendixes.

Please review this material and report any inaccuracies to our Customer Service Professional, PHONE: 1-877-ULHELPS (1-877-854-3577), FAX: 1-847-407-1395, E-MAIL: customerservice.nbk@us.ul.com, referring to the above Project and/or PD Numbers.

This material is provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

NBK File



Underwriters Laboratories Inc.
333 Plingsten Road, Northbrook, IL 60062-2096 USA
T: 847.272.8800 / F: 847.272.8129 / W: ul.com



CERTIFICATE NUMBER

07-HG255041-PDA

DATE

04 July 2007

ABS TECHNICAL OFFICE

Hamburg Engineering Services

CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of

NIEDAX GmbH & Co. KG

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate. It will remain valid as noted below or until the Rules or specifications used in the assessment are revised (whichever occurs first).

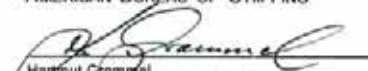
PRODUCT: Cable Supports

MODEL: KLMU 40, RSX 60, RSX 110, GRS 110, GRSX 60

ABS RULE: 2007 Steel Vessel Rules, 1-1-4/7.7, 4-8-4/21.9.1
2008 MODU Rules, 4-3-3/5.9.1b

OTHER STANDARD: UL/ CSA Approbation E233344; IEC Publication 61537;

AMERICAN BUREAU OF SHIPPING


Hartmut Grommel
Engineering Type Approval Co-ordinator

ABS10001701

NOTE: This certificate expresses compliance with one or more of the Rules, codes, standards or other criteria of American Bureau of Shipping or a subsidiary, published by manufacturer's certified and is issued solely for the use of the Bureau's members, its clients or other authorized entities. Any significant changes to the shipman's product without ABS approval will result in this certificate becoming null and void. This certificate is governed by the terms and conditions on the reverse side hereof.

TS 10001701
04-0000

СИСТЕМА СЕРТИФИКАЦИИ ГОСТ Р ФЕДЕРАЛЬНОЕ АГЕНТСТВО ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ И МЕТРОЛОГИИ	
	СЕРТИФИКАТ СООТВЕТСТВИЯ
№ РОСС DE.AB68.H04221	
Срок действия с 31.03.2011	по 30.03.2014
№ 0089641	
ОРГАН ПО СЕРТИФИКАЦИИ рег. № РОСС RU.0001.11AB68. Общество с ограниченной ответственностью "ПРОММАШ ТЕСТ", 115114, г. Москва, Дербеневская набережная, д. 11, пом. 49, тел. +7(495)782-17-08/775-48-45.	
ПРОДУКЦИЯ Лотки кабельные и комплектующие к ним (см. приложение на 1-ом листе, бланк № 0130427). Серийный выпуск.	код ОК 005 (ОКП): 34 4961
СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ НОРМАТИВНЫХ ДОКУМЕНТОВ ГОСТ Р 52868-2007	код ТН ВЭД России: 7308 90 590 0
ИЗГОТОВИТЕЛЬ NIEDAX GmbH & Co. KG. Адрес: Asbacher Str. 141, D-53545 Linz am Rhein, Германия. Телефон + 49 26445606-0, факс +49 2644 5606-13.	
СЕРТИФИКАТ ВЫДАН NIEDAX GmbH & Co. KG. Адрес: Asbacher Str. 141, D-53545 Linz am Rhein, Германия. Телефон + 49 26445606-0, факс +49 2644 5606-13.	
НА ОСНОВАНИИ протокола сертификационных испытаний № 929 от 31.03.2011 г. ООО "АКАДЕМСИБ", рег. № РОСС RU.0001.21AB09, адрес: РФ, 630024, г. Новосибирск, ул. Бетонная, 14	
ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ Сертификат системы менеджмента качества ISO 9001:2000 № 09-100-5506/7 от 20.06.2008 г., выданный ОС "TÜV CERT". Схема сертификации: 3.	
	Руководитель органа  Эксперт 
	А.А. Шитов Инициалы, фамилия А.В. Прянин Инициалы, фамилия
Сертификат не применяется при обязательной сертификации	

СИСТЕМА СЕРТИФИКАЦИИ ГОСТ Р
ФЕДЕРАЛЬНОЕ АГЕНТСТВО ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ И МЕТРОЛОГИИ

№ 0130427

ПРИЛОЖЕНИЕ

К сертификату соответствия № РОСС DE.AB68.H04221

**Перечень конкретной продукции, на которую распространяется
действие сертификата соответствия**

код ОК 005 (ОКП)	Наименование и обозначение продукции, ее изготовитель	Обозначение документации, по которой выпускается продукция
код ТН ВЭД России		
34 4961 7308 90 590 0	Лотки кабельные и комплектующие:	

RLV 60.100, RLV 60.150, RLV 60.200, RLV 60.300, RLV 60.400, RLV 60.100 E3, RLV 60.200 E3, RLV 60.300 E3, RLV 60.400 E3, RLV 60.100 E5, RLV 60.200 E5, RLV 60.300 E5, RLV 60.400 E5, RLR 60.500, RLR 60.600, RLVC 60.100, RLVC 60.200, RLVC 60.300, RLVC 60.400, RLVC 60.500, RLVC 60.600, RLVC 60.100 E3, RLVC 60.200 E3, RLVC 60.300 E3, RLVC 60.400 E3, RLVC 60.500 E3, RLVC 60.600 E3, RLRS 60.100, RLRS 60.200, RLRS 60.300, RLRS 60.400, RL 35.050, RL 50.050, RL 50.075, RL 35.050 F, RL 50.050 F, RL 50.075 F, RL 35.100, RL 35.150, RL 35.200, RL 35.250, RL 35.300, RL 35.400, RL 60.100, RL 60.150, RL 60.200, RL 60.250, RL 60.300, RL 60.400, RL 60.500, RL 60.600, RL 60.100 F, RL 60.200 F, RL 60.300 F, RL 60.400 F, RL 60.500 F, RL 60.600 F, RL 60.500 E3, RL 60.600 E3, RLU 60.100, RLU 60.150, RLU 60.200, RLU 60.250, RLU 60.300, RLU 60.400, RLU 60.500, RLU 60.600, RLU 60.100 F, RLU 60.200 F, RLU 60.300 F, RLU 60.400 F, RLU 60.500 F, RLU 60.600 F, RLU 60.100 E3, RLU 60.200 E3, RLU 60.300 E3, RLU 60.400 E3, RLU 60.500 E3, RLU 60.600 E3, RL 85.100, RL 85.200, RL 85.300, RL 85.400, RL 85.500, RL 85.600, RL 85.100 F, RL 85.200 F, RL 85.300 F, RL 85.400 F, RL 85.500 F, RL 85.600 F, RL 110.100, RL 110.200, RL 110.300, RL 110.400, RL 110.500, RL 110.550, RL 110.600, RL 110.100 F, RL 110.200 F, RL 110.300 F, RL 110.400 F, RL 110.500 F, RL 110.550 F, RL 110.600 F, RL 110.100 E3, RL 110.200 E3, RL 110.300 E3, RL 110.400 E3, RL 110.500 E3, RL 110.550 E3, RL 110.600 E3, RLU 110.100, RLU 110.200, RLU 110.300, RLU 110.400, RLU 110.500, RLU 110.550, RLU 110.600, RLU 110.100 F, RLU 110.200 F, RLU 110.300 F, RLU 110.400 F, RLU 110.500 F, RLU 110.550 F, RLU 110.600 F, RLU 110.100 E3, RLU 110.200 E3, RLU 110.300 E3, RLU 110.400 E3, RLU 110.500 E3, RLU 110.550 E3, RLU 110.600 E3, GR 35.100, GR 35.150, GR 35.200, GR 35.300, GR 35.400, GR 35.100 F, GR 35.150 F, GR 35.200 F, GR 35.300 F, GR 35.400 F, GR 40.040, GR 40.040 F, GR 40.040 E3, GR 60.100, GR 60.150, GR 60.200, GR 60.300, GR 60.400, GR 60.500, GR 60.600, GR 60.100 F, GR 60.150 F, GR 60.200 F, GR 60.300 F, GR 60.400 F, GR 60.500 F, GR 60.600 F, GR 60.100 E3, GR 60.150 E3, GR 60.200 E3, GR 60.300 E3, GR 60.400 E3, GR 60.500 E3, GR 60.600 E3, GR 85.100, GR 85.200, GR 85.300, GR 85.400, GR 85.500, GR 85.600, GR 85.100 F, GR 85.200 F, GR 85.300 F, GR 85.400 F, GR 85.500 F, GR 85.600 F, GR 110.200, GR 110.300, GR 110.400, GR 110.500, GR 110.600, GR 110.200 F, GR 110.300 F, GR 110.400 F, GR 110.500 F, GR 110.600 F, LLK 16.016, LLK 16.030, LLK 26.030, LLK 40.040, LLK 40.060, LLK 60.060, LLK 60.100, LLK 60.150, LLK 60.200, LLK 80.080, LLK 100.100,

ИЗГОТОВИТЕЛЬ: NIEDAX GmbH & Co. KG, Asbacher Str. 141,
D-53545 Linz am Rhein, Германия



Руководитель органа

Эксперт

А.А. Шитов
Подпись

А.В. Прянин
Подпись

А.А. Шитов
инициалы, фамилия

А.В. Прянин
инициалы, фамилия



Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

DIN EN IEC 61537:2002-09

is the Global Standard for Cable Tray and Cable Ladder Systems for Cable Management and specifies requirements and tests for cable tray systems (such as all metal cable trays including wire mesh cable tray and cable ladders) for the support, accommodation of cables and possibly other electrical equipment in electrical and/or communications systems installations.

All Niedax Support Systems are manufactured and tested in accordance with DIN EN IEC 61537 by Niedax GmbH & Co. KG in Linz/Germany. The safe working load as defined by the standard is the lowest value of either the load creating a deflection of $L/20$ at the end or the breaking load divided by 1.7 if the deflection is not reached.

All Niedax Cable Tray and Ladder Systems are manufactured and tested in accordance with DIN EN IEC 61537 by Niedax GmbH & Co. KG in Linz/Germany.

Testing is done with an equally balanced load and a splice located in the middle of the span. The safe working load is the smallest value of either the load creating a deflection of $1/100$ th of the span or the breaking load divided by 1.7. While the standard is requiring just $1/100$ th, Niedax is even more demanding and has reduced this figure to $1/200$ th.

Certificate



German Social Accident Insurance Institution for
the energy, textile, electrical and media products sectors certifies
the successful implementation of an Occupational Safety
and Health Management System.

The consortium

NIEDAX GROUP

with the divisions to the annex of this certificate

meets the requirements of systematic and
effective occupational safety, based on
the specific branch implementation of the **National Guidelines in line
with ILO-OSH 2001**, the „BG Basic Principles for OSH-MS Auditing“,
dated 11-2007, and the requirements in line with **OHSAS 18001:2007**.

The certificate (substitute the issue from 28.10.2009) is valid until 31.05.2012.

Head of Prevention Department


Dr. Jens Jöhling

Cologne, 29 January 2010



OSH-MS Certification


Dipl.-Ing. Wolfgang Pechoc

Registration No. 072279810000/231

General Information

Material Handling

Finishes

Corrosion Protection

Installation Instructions



Info Section

general information

INFORMATION

Info

WARNING!

Cable tray should not be used as a walkway, ladder, or support for people; cable tray is a mechanical support system for cables and raceways. Using cable trays as a walkway can result in personal injury and also cause damage to the cable tray system and installed cables.

Hazardous voltages in electrical equipment can cause severe personal injury or death. Safety related work practices, as described in NFPA 70E, Part 11 or VDE 0100, should be followed at all times.

The overall performance of a cable tray wiring system is dependent upon proper installation, including supports and cables.

Non-adherence to installation and maintenance guidelines may lead to personal injury as well as damage to property.

Installation and proper maintenance of cable tray wiring systems should be performed only by qualified personnel. For the purposes of this guideline, a qualified installer is one who is familiar with electrical construction. In addition, the person should be:

Trained and authorized to test, energize, clear, ground, tag, and lockout circuits in accordance with established safety practices.

Trained in the proper care and use of protective equipment such as insulated rubber gloves, hardhats, safety glasses or face shields, dust masks and flash resistant clothing in accordance with established safety practices and / or local building codes.

RECEIVING AND UNLOADING

Cable tray is generally bundled and shipped via motor freight on extended pallets. Accessories and small components are boxed and often skidded.

Cable tray can be shipped via LTL common carrier, trailer, or flat bed truck. LTL carriers are normally used for less than truckload shipments. This method of shipment is the most cost effective and offers maximum protection from the weather during shipment. LTL shipments should be hand unloaded unless provisions have been made with the cable tray manufacturer for forklift unloading.

Flat bed trailers are often used for full truckload shipments and / or when customers want side forklift unloading or sling unloading by crane. (Special care must be exercised to assure that the cable tray is not crushed from improperly locating and lifting with a sling.)

ACCEPTABLE(best)



UN-ACCEPTABLE



*Except when utilizing extended forks for skidded bundles

Small to medium size orders less than 2000 ft. (600 m) are generally shipped via common carrier - LTL Service.

If hand unloaded, workers should wear gloves and steel-toed footwear.

To prevent damage to cable tray, never unload from truck / trailer by chaining to bottom of the skid and dragging out of trailer.

ACCEPTABLE



UN-ACCEPTABLE



Inventory all items immediately after unloading, using the manufacturer's packing list. Note on the bill of lading any shortage or shipping damage for filing freight claim.

STORAGE

Aluminum, Fiberglass, **Stainless Steel** and /or other non-metallic cable tray can be stored outside without protective covering. Tray should be loosely stacked, elevated off the ground, and ventilated to prevent storage stain. If appearance is important, cable tray should be stored indoors to prevent water or other environmental factors from staining or adhering to cable tray.

Hot dipped galvanized after fabrication (H.D.G.A.F.), mill galvanized or electro-galvanized cable tray must be protected or stored in a well ventilated, dry location.

Bare steel cable tray should receive a protective coating as soon as possible to prevent surface rust.

PVC or painted cable tray should be protected and stored indoors if possible. Cable tray must be protected from scratching and marring of finish.

Small accessories should be stored in such a manner to prevent loss or damage.

Cable tray should be stored away from high traffic areas. Cable tray should be stacked by width and type.

Material & Finish

STANDARDS AVAILABLE

MATERIAL	MATERIAL SPECIFICATION	ADVANTAGES
Steel	ASTM A1011 SS Gr. 33 (14 Gauge Plain Steel)	Electric Shielding
	ASTM A1008 Gr. 33 Type 2	Finish Options
	(16 & 18 Gauge Plain Steel)	Low Thermal Expansion
	ASTM A653SS Gr. 33 G90 (Pre-Galvanized)	Limited Deflection
Stainless Steel	AISI Type 304 and 316	Superior Corrosion Resistance
		Withstands High Temperatures

STEEL

Steel cable trays are fabricated from continuous roll-formed structural quality steel. By roll-forming steel, the mechanical properties are increased allowing the use of a lighter gauge steel to carry the required load. This reduces the dead weight that must be carried by the supports and makes the system easier to install for the contractor. By using structural quality steel, NIEDAX assures that the material (steel) will meet the minimum yield and tensile strengths of applicable ASTM standards. All cable tray side rails, rungs and splice plates are numbered for material identification purposes. The corrosion resistance of steel can vary widely, depending on types of coatings and alloy used.

STAINLESS STEEL

Stainless Steel cable trays are fabricated from continuous roll-formed AISI Type 304 and 316 stainless steel. They are non-magnetic and belong to the group called austenitic stainless steels. Like carbon steel, they exhibit increased strength when cold worked by roll-forming or bending. Several important factors make the use of stainless steel imperative. Considerations such as: long term maintenance costs, corrosion resistance, appearance and locations where product contamination is undesirable, are key factors in determining the necessity of Stainless Steel Material. Stainless Steel exhibits stable structural properties such as yield strength and high creep strength at elevated temperatures.

NIEDAX Stainless Steel cable trays are welded using stainless steel welding wire to ensure that each weld exhibits the same corrosion resistant characteristic as the base metal.

A detailed study of the corrosive environment is recommended when considering a stainless steel design.

STANDARDS AVAILABLE

FINISH	SPECIFICATION	RECOMMENDED USE
Electrogalvanized Zinc	ASTM B633	Indoor
	(For Cable Tray Hardware and Accessories and Pre-Galv.)	
Pre-Galvanized Zinc	ASTM A653SS Gr.33 G90 (CSA Type 2)	Indoor
	(Steel Cable Tray and Fittings)	
Hot Dip Galvanized Zinc	ASTM A123 (CSA Type 1)	Indoor/Outdoor
After Fabrication	(Steel Cable Tray and Fittings)	

ZINC COATINGS

Zinc protects steel in two ways. First, it acts as a protective coating and secondly, as a sacrificial anode to repair bare areas such as cut edges, scratches, and gouges. The corrosion protection of zinc is directly related to its thickness and the environment. i.e, a .2 mil coating will last twice as long as a .1 mil coating in the same environment. Galvanizing also protects cut and drilled edges.

ELECTROGALVANIZED ZINC

Electrogalvanized Zinc (also known as zinc plated or electroplated) is the process by which a coating of zinc is deposited on the steel by electrolysis from a bath of zinc salts. This finish is standard for cable tray hardware and some accessories for pre-galvanized systems. When exposed to air and moisture, zinc forms a tough, adherent, protective film consisting of a mixture of zinc oxides, hydroxides, and carbonates. This film is in itself a barrier coating which slows subsequent corrosive attack on the zinc. This coating is usually only recommended for indoor use in relatively dry areas, as it provides limited protection (ninety-six hours of protection in salt spray testing per ASTM B117).

PRE-GALVANIZED ZINC

(Mill galvanized, hot dip mill galvanized or continuous hot dip galvanized)

Pre-Galvanized steel is produced by coating coils of sheet steel with zinc. This process is accomplished by continuously rolling the material through molten zinc at the mills. This procedure is also used to produce mill galvanized and hot dip mill galvanized material. The coils are then slit to size and fabricated by roll forming, shearing, punching, or forming to produce NIEDAX pre-galvanized cable tray products. The G90 specification calls for a coating of .90 ounces of zinc per square foot of steel. This results in a coating of .45 ounces per square foot on each side of the sheet. This is important when comparing this finish to hot dip galvanized after fabrication. During fabrication, cut edges and welded areas are not normally zinc coated; however, the zinc located near the uncoated metal becomes a sacrificial anode to protect the bare areas within a short period of time.

HOT DIP GALVANIZED AFTER FABRICATION

(Hot dip galvanized or batch hot dip galvanized)

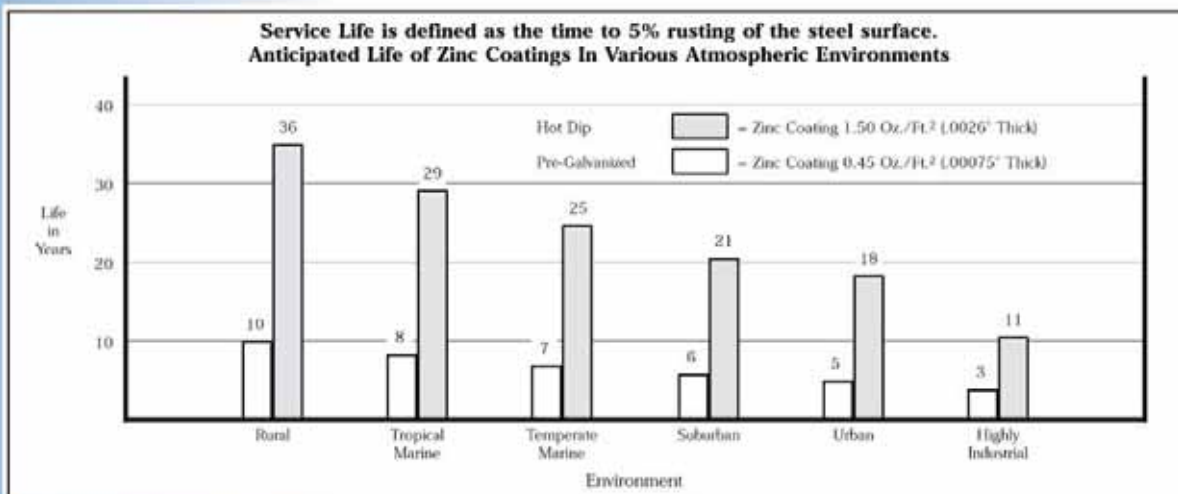
Hot Dip Galvanized After Fabrication cable tray products are fabricated from steel and then completely immersed in a bath of molten zinc. A metallic bond occurs resulting in a zinc coating that completely coats every surface, including edges and welds.

A key advantage of this method is coating thickness. Cable trays that are hot dip galvanized after fabrication have a minimum thickness of 1.50 ounces per square foot on each side, or a total of 3.0 ounces per square foot of steel, according to ASTM A123.

The zinc thickness can be controlled by the amount of time each part is immersed in the molten zinc bath as well as the speed at which it is removed.

The layer of zinc which bonds to the steel provides a dual protection against corrosion. It protects first as an overall barrier coating. If this coating happens to be scratched or gouged, zinc's secondary defense, galvanic action is called upon to protect the steel.

Hot dip galvanized after fabrication is recommended for prolonged outdoor exposure and will protect steel for many years in most outdoor environments as well as in many aggressive industrial environments.



Corrosion

All metal surfaces are affected by corrosion. Depending on the physical properties of the metal and the environment to which it is exposed, chemical or electromechanical corrosion may occur.

ATMOSPHERIC CORROSION

Atmospheric corrosion occurs when metal is exposed to airborne liquids, solids or gases. Some causes of atmospheric corrosion are moisture, salt, dirt and sulphuric acid. This form of corrosion is typically worse outdoors, especially near marine environments.

CHEMICAL CORROSION

Chemical corrosion takes place when metal comes in direct contact with a corrosive solution. Some factors which affect the severity of chemical corrosion include: chemical concentration level, duration of contact, frequency of washing, and operating temperature.

STORAGE CORROSION

Wet storage stain (White rust) is caused by the entrapment of moisture between the surfaces of closely packed and poorly ventilated materials for an extended period of time. Wet storage stain is usually superficial, having no affect on the properties of the metal.

Light staining normally disappears with weathering. Medium to heavy buildup should be removed, in order to allow the formation of the normal protective film.

Proper handling and storage will help to assure stain-free material. If product arrives wet, it should be unpacked and dried before storage. Dry material should be stored in a well ventilated "low moisture" environment to avoid condensation. Outdoor storage is undesirable, and should be avoided whenever possible.

GALVANIC CORROSION

Galvanic corrosion occurs when two or more dissimilar metals are in contact while in the presence of an electrolyte (ie. moisture). An electrolytic cell is created and the metals form an anode or a cathode depending on their relative position on the Galvanic Series Table. The anodic material will be the one to corrode. Whether a material is anodic depends on the relative position of the other material. For example: If zinc and steel are in contact, the zinc acts as the anode and will corrode; the steel acts as the cathode, and will be protected. If steel and copper are in contact, the steel is now the anode and will corrode.

The rate at which galvanic corrosion occurs depends on several factors:

1. The amount and concentration of electrolyte present- Material stored in an indoor, dry environment will have little or no galvanic corrosion compared to a wet atmosphere.
2. The relative size of the materials- A small amount of anodic material in contact with a large cathodic material will result in greater corrosion. Likewise, a large anode in contact with a small cathode will decrease the rate of corrosive attack.
3. The relative position on the Galvanic Series Table. The farther apart in the Galvanic Series Table, the greater the potential or corrosion of the anodic material.

It is very important to consider the effects of electrolytic corrosion when selecting the assembly hardware. Ideally the finish of cable tray and hardware should be identical. But if this is not possible the relatively small hardware should always be higher grade than the large volume tray, e.g. use stainless steel bolts for hot dip galvanized tray but not the other way round.

Corrosion Guide

Chemical	Cable Tray Material					
	Stainless Type 304			Stainless Type 316		
	Cold	Warm	Hot	Cold	Warm	Hot
Acetone	R	R	R	R	R	R
Aluminum Chloride Solution	NR	—	—	F	—	—
Anhydrous Aluminum Chloride	NR	—	—	F	—	—
Aluminum Sulfate	R	R	R	R	R	R
Ammonium Chloride 10%	R	R	R	R	R	R
Ammonium Hydroxide	R	R	R	R	R	R
Ammonium Phosphate	R	—	—	R	—	—
Ammonium Sulfate	R	R	R	R	R	R
Ammonium Thiocyanate	R	—	—	R	R	R
Amyl Acetate	R	R	R	R	R	R
Amyl Alcohol	R	—	—	R	R	R
Arsenic Acid	R	R	—	R	R	R
Barium Chloride	R	R	R	R	R	R
Barium Sulfate	R	R	—	R	R	—
Barium Sulfide	R	R	—	R	R	—
Benzene	R	R	R	R	R	R
Benzoic Acid	R	R	R	R	R	R
Boric Acid	R	R	R	R	R	R
Bromine Liquid or Vapor	NR	NR	NR	NR	NR	NR
Butyl Acetate	R	—	—	R	R	R
Butyl Alcohol	R	R	R	R	R	R
Butyric Acid	R	R	R	R	R	R
Calcium Chloride 20%	R	—	—	R	—	—
Calcium Hydroxide	R	R	F	R	R	R
Calcium Hypochlorite 2 - 3%	R	—	—	R	—	—
Calcium Sulfate	R	R	—	R	R	—
Carbon Monoxide Gas	R	R	R	R	R	R
Carbon Tetrachloride	F	F	F	R	R	R
Chloroform Dry	R	R	—	R	R	—
Chloroform Solution	—	—	—	—	—	—
Chromic Acid 10% CP	R	R	F	R	R	R
Citric Acid	R	R	NR	R	R	R
Copper Cyanide	R	R	R	R	R	R
Copper Sulfate 5%	R	R	R	R	R	R
Ethyl Alcohol	R	R	R	R	R	R
Ethylene Glycol	R	R	—	R	R	R
Ferric Chloride	NR	NR	NR	NR	NR	NR
Ferrous Sulfate 10%	R	R	—	R	R	—
Formaldehyde 37%	R	R	R	R	R	R
Formic Acid 10%	R	R	NR	R	R	R
Gallic Acid 5%	R	R	R	R	R	R
Hydrochloric Acid 25%	NR	NR	NR	NR	NR	NR
Hydrofluoric Acid 10%	NR	NR	NR	NR	NR	NR

Corrosion Guide

Chemical	Cable Tray Material					
	Stainless Type 304			Stainless Type 316		
	Cold	Warm	Hot	Cold	Warm	Hot
Hydrogen Peroxide 30%	R	R	R	R	R	R
Hydrogen Sulfide Wet	NR	NR	R	R	R	R
Lactic Acid 10%	R	R	F	R	R	R
Lead Acetate 5%	R	R	R	R	R	R
Magnesium Chloride 1%	R	F	R	—	R	R
Magnesium Hydroxide	R	R	—	R	R	—
Magnesium Nitrate 5%	R	R	R	R	R	R
Nickel Chloride	R	—	—	R	—	—
Nitric Acid 15%	R	R	R	R	R	R
Oleic Acid	R	R	F	R	R	R
Oxalic Acid 10%	NR	NR	NR	R	R	R
Phenol CP	R	R	R	R	R	R
Phosphoric Acid 50%	R	R	R	R	F	NR
Potassium Bromide 100%	R	R	—	R	R	R
Potassium Carbonate 100%	R	R	R	R	R	R
Potassium Chloride 5%	R	R	R	R	R	R
Potassium Dichromate	R	R	R	R	R	R
Potassium Hydroxide 50%	R	R	R	R	R	R
Potassium Nitrate 50%	R	R	R	R	R	R
Potassium Sulfate 5%	R	R	R	R	R	R
Propyl Alcohol	R	R	R	R	R	R
Sodium Acetate 20%	R	R	R	R	R	R
Sodium Bisulfate 10%	R	R	R	R	R	R
Sodium Borate	R	R	R	R	R	R
Sodium Carbonate 18%	R	R	R	R	R	R
Sodium Chloride 5%	R	R	R	R	R	R
Sodium Hydroxide 50%	R	R	R	R	R	R
Sodium Hypochlorite 5%	F	—	—	R	—	—
Sodium Nitrate 100%	R	R	R	R	R	R
Sodium Nitrite 100%	R	R	R	R	R	R
Sodium Sulfate 100%	R	R	R	R	R	R
Sodium Thiosulfate	R	R	R	R	R	R
Sulfur Dioxide (Dry)	R	R	R	R	R	R
Sulfuric Acid 5%	F	NR	NR	R	—	—
Sulfuric Acid 10%	NR	NR	NR	NR	NR	NR
Sulfuric Acid 50%	NR	NR	NR	NR	NR	NR
Sulfuric Acid 75 - 98%	NR	NR	NR	NR	NR	NR
Sulfuric Acid 98 - 100%	NR	NR	—	R	R	F
Tannic Acid 10 & 50%	R	R	R	R	R	R
Tartaric Acid 10 & 50%	R	R	R	R	R	R
Vinegar	R	R	R	R	R	R
Zinc Chloride 5 & 20%	R	F	NR	R	R	R
Zinc Nitrate	R	R	R	R	R	R
Zinc Sulfate	R	R	R	R	R	R

R = Recommended

F = May be used under some conditions

NR = Not Recommended

— = Information not available

Cold = 50 - 80°F

Cold = 10 - 27°C

Warm = 130 - 170°F

Warm = 54 - 77°C

Hot = 200 - 212°F

Hot = 93 - 100°C

The corrosion data given in this table is for general comparison only. (Reference Corrosion Resistance Tables, Second Edition)

The presence of contaminants in chemical environments can greatly affect the corrosion rate of any material.

Mechanical Properties

LENGTHS AVAILABLE

The current Cable Tray Standard, NEMA VE-1 and C22.2 No. 126.1-98, lists typical lengths as 3000 mm (10 ft), 3660 mm (12 ft), 6000 mm (20 ft), and 7320 mm (24 ft). It is impractical to manufacture either lighter systems in the longer lengths or heavier systems in the shorter lengths. For that reason, NIEDAX has introduced a primary and secondary length for some systems. These straight section lengths were selected to direct the user to trays that best suit support span demands and practical loading requirements. The primary length is the one that is the most appropriate for the strength of the system and that will provide the fastest service levels. The secondary lengths will be made available to service additional requirements. Special lengths are available upon request with extended lead times.

The VE-2, Cable Tray Installation Guide, states that the support span shall not be greater than the straight section length. If a 20C system is manufactured in 12 foot sections the greatest span for supports would be 12 feet. This dramatically affects the loading of the system.

$$\begin{aligned} W_1 \times L_1^2 &= W_2 \times L_2^2 \\ 100 \times 20^2 &= W_2 \times 12^2 \\ 40,000 &= 144 \times W_2 \\ W_2 &= 277 \text{ lbs. per foot} \end{aligned}$$

SUPPORT SPAN

The strength of a cable tray system is largely determined by the strength of its side rails. The strength of a cable tray side rail is proportionate to the distance between the supports on which it is installed, commonly referred to as the "support span". Therefore, the strength of a cable tray system can be altered by changing the support span. However, there is a limit to how much that strength can be increased by reducing the support span. At a certain point the strength of the bottom portion of the cable tray could become the determining factor of strength.

Once the load requirement has been determined, the following factors should be considered:

1. Sometimes the location of existing structural beams will dictate the cable tray support span. This is typical with outdoor installations where adding intermediate supports could be financially prohibitive. For this situation the appropriate cable tray must be selected to accommodate the existing span.
2. When cable tray supports are randomly located, the added cost of a higher strength cable tray system should be compared to the cost of additional supports.
3. The support span lengths should be equal to or less than unspliced straight section lengths, to ensure that no more than one splice is placed between supports.

The distance between the supports affects the loading capabilities exponentially. To calculate loading values not listed use:

$$\begin{aligned} W_1 \times L_1^2 &= W_2 \times L_2^2 \text{ where} \\ W_1 &= \text{tested loading} \\ L_1 &= \text{span in feet, a tested span} \\ W_2 &= \text{loading in question} \\ L_2 &= \text{known span for new loading} \end{aligned}$$

Other Loads - Ice, wind, snow for outdoor systems see page 16 and 17 for information.

A 200 lb. concentrated load for industrial systems. The affect of a concentrated load can be calculated as follows:

$$2 \times (\text{concentrated static load}) / \text{span in feet}$$

When considering concentrated loads the rung strength should be factored in.

Mechanical Properties

DEFLECTION

Deflection in a cable tray system is primarily an aesthetic consideration. When a cable tray system is installed in a prominent location, a maximum simple beam deflection of 1/200 of support span can be used as a guideline to minimize visual deflection.

It is important at this point to mention that there are two typical beam configurations, simple beam and continuous beam, and to clarify the difference.

A good example of a simple beam is a single straight section of cable tray supported, but not fastened at either end. When the tray is loaded the cable tray is allowed to flex. Simple beam analysis is used almost universally for beam comparisons even though it is hardly practical in the field. The three most prominent reasons for using a simple beam analysis are: calculations are simplified; it represents the worst case loading; and testing is simple and reliable.

Continuous beam is the beam configuration most commonly used in cable tray installations. An example of this configuration is where cable trays are installed across several supports to form a number of spans. The continuous beam possesses traits of both the simple and fixed beams. When equal loads are applied to all spans simultaneously, the counter-balancing effect of the loads on both sides of a support restricts the movement of the cable tray at the support. The effect is similar to that of a fixed beam.

The end spans behave substantially like simple beams. When cable trays of identical design are compared, the continuous beam installation will typically have approximately half the deflection of a simple beam of the same span. The published load data in the NIEDAX cable tray catalog is based on the continuous beam analysis per IEC - Standard 61537. Therefore simple beam data should be used only for general comparison purposes.

Please note that NEMA Standards VE-1 limits the use of splice plates as follows:

Unspliced straight sections should be used on all simple spans and on end spans of continuous span runs. Straight section lengths should be equal to or greater than the span length to ensure not more than one splice between supports.

CONCENTRATED LOADS

A concentrated static load represents a static weight applied at a single point between the side rails. Tap boxes, conduit attachments and long cable drops are just some of the many types of concentrated loads. When specified, these concentrated static loads may be converted to an equivalent, uniform load (W_e) by using the following formula:

$$W_e = 2 \times (\text{concentrated Static Load}) / \text{span length}$$

However, it should be noted that per NEMA Standard Publication VE1 cable tray is designed as a support for power or control cables, or both, and is not intended or designed to be a walk-way for personnel.

POWER CABLING LOADS:

Power applications can create the heaviest loading. The heaviest cable combination found was for large diameter cables (i.e. steel armor, 600V, 4 conductor 750 kcmil). The cables weigh less than 3.8 lbs. per inch-width of cable tray. As power cables are installed in a single layer, the width of the cable affects the possible loading.

DATA/COMMUNICATION CABLING LOADS:

Low voltage cables can be stacked as there are no heat generation problems. The NEC employs a calculation of the total cross sectional area of the cables not exceeding 50% of the fill area of the cable tray. As the cable fill area of the cable tray system affects the possible loading, both the loading depth and width of the systems must be considered. For this example 4UTP category 5 cable (O.D. = .21, .026 lbs./ft.) were used.

Mechanical Properties

ENVIRONMENTAL LOADS: WIND

Wind loads need to be determined for all outdoor cable tray installations. Most outdoor solutions are ladder type trays, therefore the most severe loading to be considered is impact pressure normal to the cable tray side rails. The impact pressure corresponding to several wind velocities are given below in Table 1.

Table 1 Impact Pressures			
V(mph)	P(lbs/ft ²)	V(mph)	P(lbs/ft ²)
15	0.58	85	18.5
20	1.02	90	20.7
25	1.60	95	23.1
30	2.30	100	25.6
35	3.13	105	28.2
40	4.09	110	30.9
45	5.18	115	33.8
50	6.39	120	36.8
55	7.73	125	40.0
60	9.21	130	43.3
65	10.80	135	46.6
70	12.50	140	50.1
75	14.40	145	53.8
80	16.40	150	57.6
V= Wind Velocity		P= Impact Pressure	

Note: These values are for an air density of 0.07651lbs/ft³ corresponding to a temperature of 16°C (60° F) and baro-metric pressure of 14.7 lbs/in².

Example Calculation:

Side load for 6" side rail with 100 mph wind
 $(25.6 \times 6) / 12 = 12.8 \text{ lbs/ft}$

When covers are installed on outdoor cable trays, another factor to be considered is the aerodynamic effect which can produce a lift strong enough to separate a cover from a tray. Wind moving across a covered tray creates a positive pressure inside the tray and a negative pressure above the cover. This pressure difference can remove the cover from the tray.

ENVIRONMENTAL LOADS: ICE

Glaze ice is the most commonly seen form of ice build-up. It is the result of rain or drizzle freezing on impact with an exposed object. Generally, only the top surface (or the cover) and the wind bearing side of a cable tray system is significantly coated with ice. The maximum design load to be added due to ice should be calculated as follows:

$$L_i = (W \times T_i \times D_i) / 144 \text{ where;}$$

L_i = Ice Load (lbs/linear foot)
 W = Cable Tray Width (inches)
 T_i = Maximum Ice Thickness (inches)
 D_i = Ice Density = 57 lbs/ft³

the maximum ice thickness will vary depending on location. A thickness of 1/2" can be used as a conservative standard.

Example Calculation:

Ice Loads for 24" wide tray with 1/2" thick ice;
 $(24 \times 0.5 \times 57) / 144 = 4.75 \text{ lbs/ft}$

ENVIRONMENTAL LOADS: SNOW

Snow is measured by density and thickness. The density of snow varies almost as much as its thickness. The additional design load from snowfall should be determined using the building codes which apply for each installation.

Grounding (NEC 392.7)

All metallic cable trays shall be grounded as required in Article 250.96 regardless of whether or not the cable tray is being used as an equipment grounding conductor (EGC). The EGC is the most important conductor in an electrical system as its function is electrical safety. There are three wiring options for providing an EGC in a cable tray wiring system: (1) An EGC conductor in or on the cable tray. (2) Each multiconductor cable with its individual EGC conductor. (3) The cable tray itself is used as the EGC in qualifying facilities.

Cable tray systems must be electrically continuous whether or not they are going to serve as an EGC. Bonding jumpers are required at any discontinuities, but it is not necessary to install bonding jumpers if UL classified splice plate connections are used.

The metal area requirements for steel cable trays to be used as an EGC have been published by the NFPA in NEC section 392.7 (B):

Max. Fuse / Circuit Breaker Ampere rating	Min Cross Area in square inches
60	0.20
100	0.40
200	0.70
400	1.00
600	1.50

Steel cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 600 amperes. Stainless steel cable trays must always be bonded according to NEC guidelines if used as an EGC.

WARNING!		Do Not Use As A Walkway, Ladder, Or Support For Personnel.		
Use Only As A Mechanical Support For Cables, Tubing and Raceways.				
Catalog Number: (and description)	WRLX 150.200/3 Straight Sections		ventilated 08/08/2007	
Minimum Area: Load Class:	1.0 sq. in. E 320 kg/m 3 meter span			
REFERENCE FILE # E233344				Asbacher Str. 141 D - 53545 Linz am Rhein +49 (2644) 5606-0
This product is classified by Underwriters Laboratories, Inc. as to its suitability as an equipment grounding conductor only. 9JA9				
				FB3M

Installation Instructions



INSTALLATION

Attention Cable Tray Installers — Cable tray system design shall comply with NEC Article 392, NEMA VE 1, IEC 61537 and shall follow safe work practices as described in NFPA 70E and NEMA VE 2.

The instructions and information contained here-in are not intended to cover all details or variations in cable tray systems, nor do they account for every possible installation scenario.

It is recommended that the installation work described be performed by qualified personnel, preferably a certified electrical contractor, familiar with standard electrical construction practices, electrical equipment, and safety of electrical wiring systems.

TYPE OF CABLE

According to NEC Article 318, multiconductor tray cable may be installed in any standard cable tray bottom type. Single conductor tray cable may be installed only in ladder or ventilated bottom cable trays (not solid bottom). Solid bottom cable trays are not allowed to be installed in Class II, Division 2 locations (1999 NEC Section 502-4(b)). In general, small, highly flexible cables should be installed in solid bottom, vented bottom cable trays. Sensitive cables (e.g. fiberoptic) are typically installed in flat, solid bottom cable trays, instead of corrugated trough bottoms. Larger, less flexible cables are typically installed in ladder type cable trays having 12" rung spacing.

SUPPORT INSTALLATION

Caution! Supports for cable trays should provide strength and working load capabilities sufficient to meet the load requirement of the cable tray wiring system. Consideration should be given to the loads associated with future cable additions or any other additional loads applied to the cable tray system or the cable trays support system.

There are many different ways of supporting cable trays. The most common approach in the US is to use threaded rod and a rail to build a trapeze hanger. Other systems like ceiling hangers with cantilever brackets will allow cables to be laid into the tray instead of being pulled through.

STRAIGHT SECTION POSITION

After the supports are in place, the installation of the cable tray can begin at any place that is convenient. It is not necessary to start at one end of the run. It is ideal to lay out the system so that splice joints fall between the support and the quarter point. This maximizes the rigidity of the cable tray.

To begin, place a straight section across two supports so that the ends of the section are not directly on the support. If the support span is equal to the length of the straight sections, bolt two pieces together for this step. As a general practice, avoid placing splice plates over supports or at mid-span.

FIELD MODIFICATIONS

Cable Tray can be adapted (cut to spec in field situations). These field modifications should be made by qualified personnel only (preferably a certified electrical contractor)

BARRIER REQUIREMENTS

Barrier strips are used to separate cable systems, such as when cables above and below 600 volts per NEC 318-6(f) are installed in the same cable tray. However, when MC type cables rated for over 600 volts are installed in the same cable tray with cables rated 600 volts or less, no barriers are required. The barriers should be made of the same material type as the cable tray. When ordering the barrier, the height must match the loading depth of the cable tray into which it is being installed.

FUTURE EXPANSION REQUIREMENTS

One of the many features of cable tray is the ease of adding cables to an existing system. Future expansion should always be considered when selecting a cable tray, and allowance should be made for additional fill area and load capacity. A minimum of 50% expansion allowance is recommended.

SPACE LIMITATIONS

Any obstacles which could interfere with a cable tray installation should be considered when selecting a cable tray width and height. Adequate clearances should be allowed for installation of supports and for cable accessibility. Note: The overall cable tray dimensions typically exceed the nominal tray width and loading depth.

Fitting Radius

CABLE FLEXIBILITY

The proper bend radius for cable tray fittings is usually determined by the bend radius and stiffness of the tray cables to be installed. Typically, the tray cable manufacturer will recommend a minimum bend allowance for each cable. The fitting radius should be equal to or larger than the minimum bend radius of the largest cable which may ever be installed. When several cables are to be placed in the same cable tray, a larger bend radius may be desirable to ease cable installation.

Space Limitations

The overall dimensions for a cable tray fitting will increase as the bend radius increases. Size and cost make the smallest acceptable fitting radius most desirable. When large radius fittings are required, the system layout must be designed to allow for adequate space.

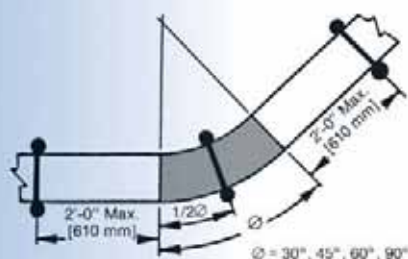
Fittings Installation

RECOMMENDED SUPPORT LOCATIONS FOR FITTINGS

The following are recommended support diagrams to serve as guidelines for installing Steel Cable Tray support systems in the field. The information is intended to provide the installer some practical assistance when estimating the amounts of necessary supports and to help in identifying support locations for various field conditions. However, it does not cover every situation that may arise when installing the product. It may be possible to install narrow trays with lighter loads and fewer supports. Wider trays with heavier loading, trays with long radii, or those with multiple side cuts may require additional support to avoid unwanted deflection.

HORIZONTAL ELBOW SUPPORT

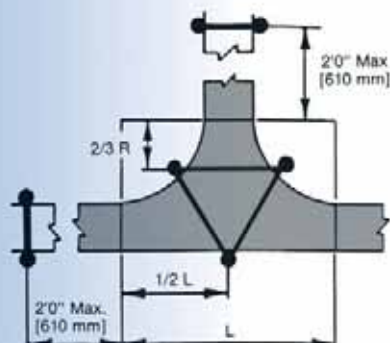
Supports for horizontal cable tray fittings should be placed within 2 ft. (600 mm) of each fitting extremity, and as follows:



- a. 90° supports at the 45° point of arc.
- b. 60° supports at the 30° point of arc.
- c. 45° supports at the 22-1/2° point of arc (except for the 12 in. [300 mm] radii).
- d. 30° supports at the 15° point of arc (except for the 12 in. [300 mm] radii).

HORIZONTAL TEE SUPPORT

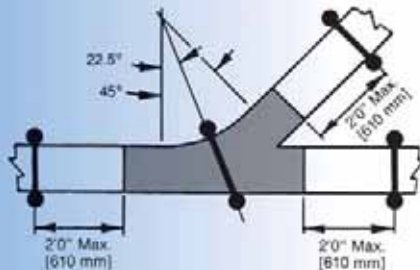
Place horizontal tee supports within 2 ft. (600 mm) of each of the three openings connected to other cable tray items for the 12 in. (300 mm) radius. On all other radii, at least one additional support should be placed under each side rail at the horizontal tee, preferably as shown.



Other Factors To Consider

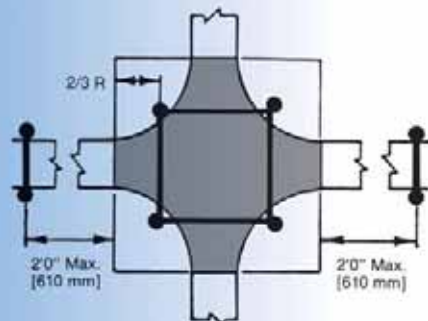
HORIZONTAL Y SUPPORT

Place horizontal Y supports within 2 ft. (600 mm) of each of the three openings connected to other cable tray items, and at 22-1/2° point of the arc adjacent to the side branch.



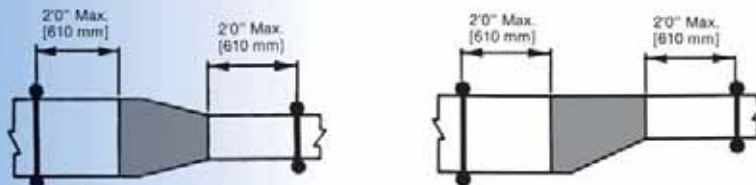
HORIZONTAL CROSS SUPPORT

Place horizontal cross support within 2 ft. (600 mm) of each of the four openings connected to other cable tray items for the 12 in. (300 mm) radius. On all other radii, at least one additional support should be placed under each side rail of the horizontal cross, preferably as shown.



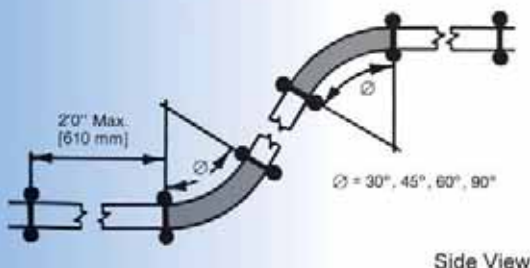
REDUCER SUPPORT

Place reducer supports within 2 ft. (600 mm) of each fitting extremity.



VERTICAL CABLE TRAY ELBOWS

Vertical cable tray elbows at the top of runs should be supported at each end. At the bottom of runs, they should be supported at the top of the elbow and within 2 ft. (600 mm) of the lower extremity of the elbows.

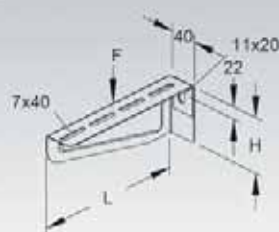


GENERAL INFORMATION

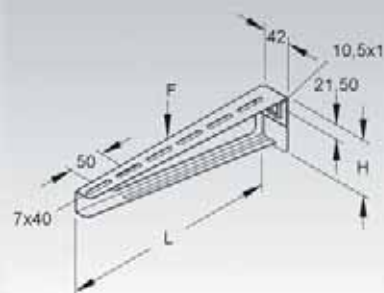
Hole Patterns

KTAM...

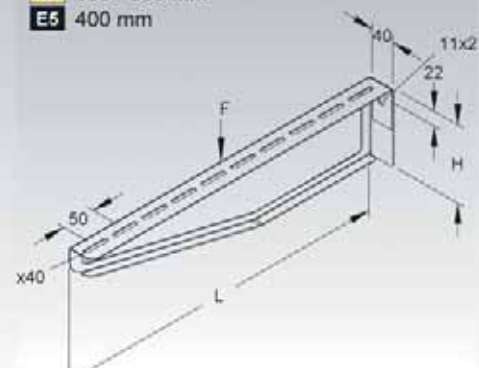
S 100 - 200 mm
E3 100 - 300 mm
E5 100 - 300 mm



S 300 - 400 mm

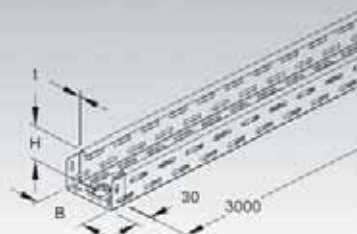


S 500 - 600 mm
E5 400 mm

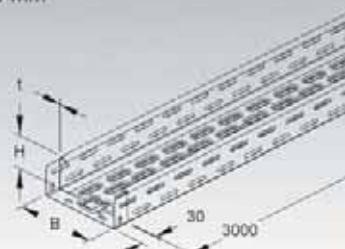


RLV 60...

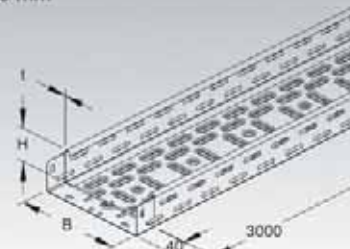
100 mm



150 mm



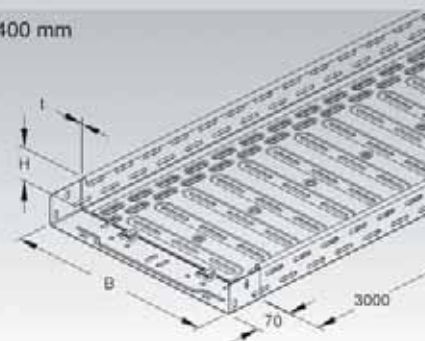
200 mm



300 mm



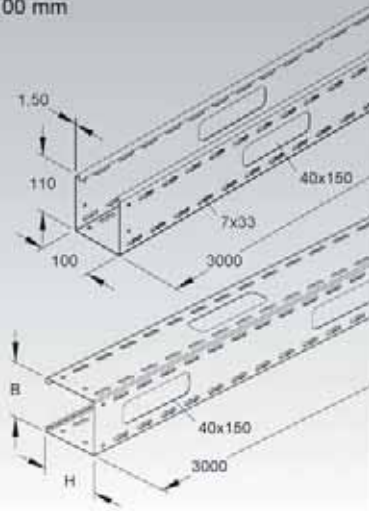
400 mm



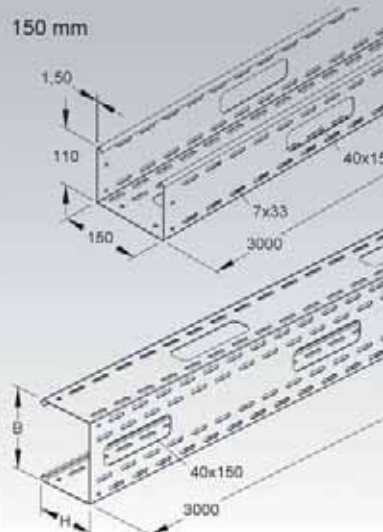
Hole Patterns

RSV 110...

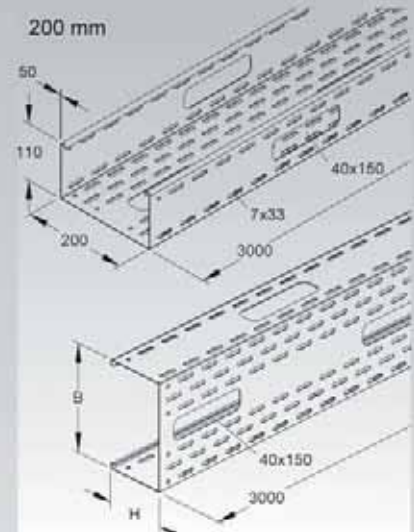
100 mm



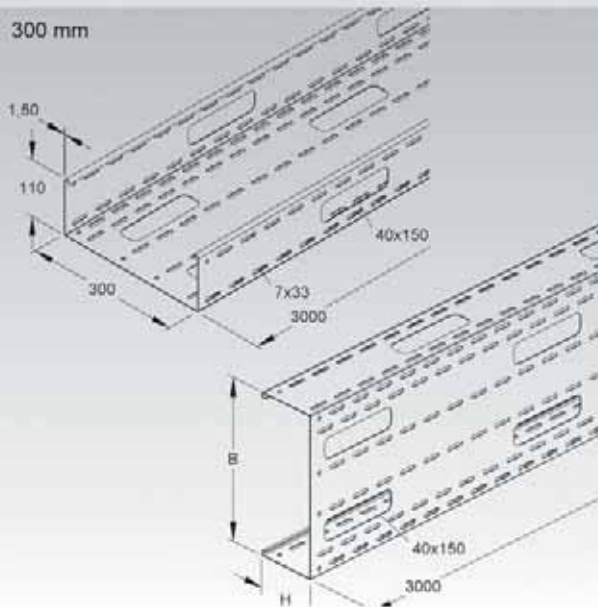
150 mm



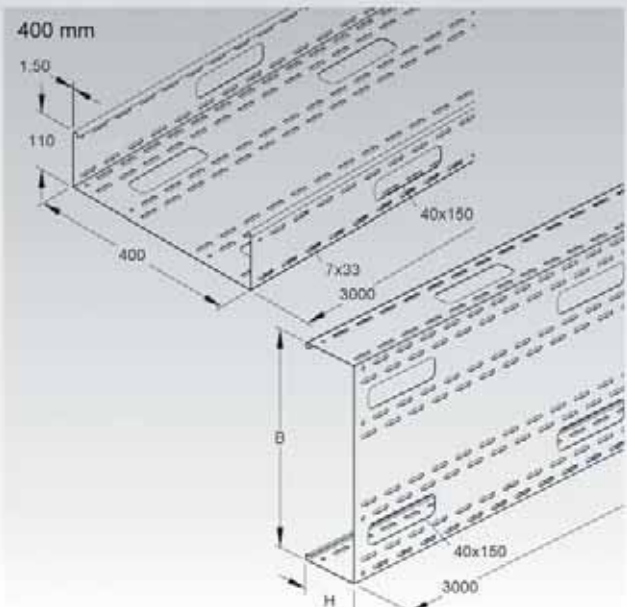
200 mm



300 mm

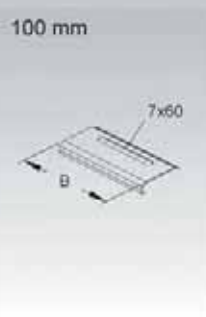


400 mm



RKB...

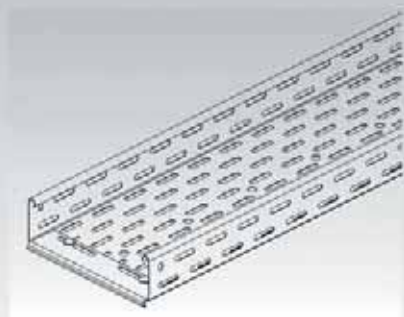
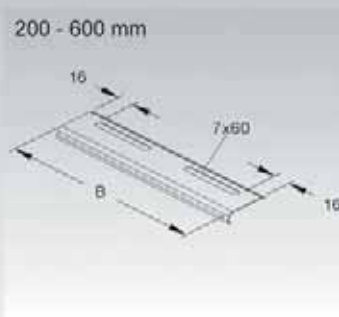
100 mm



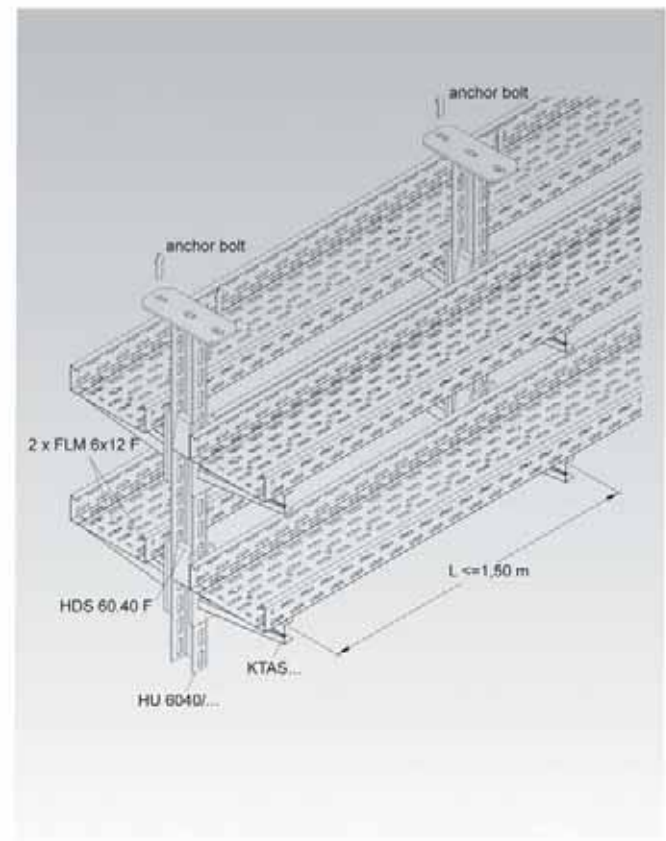
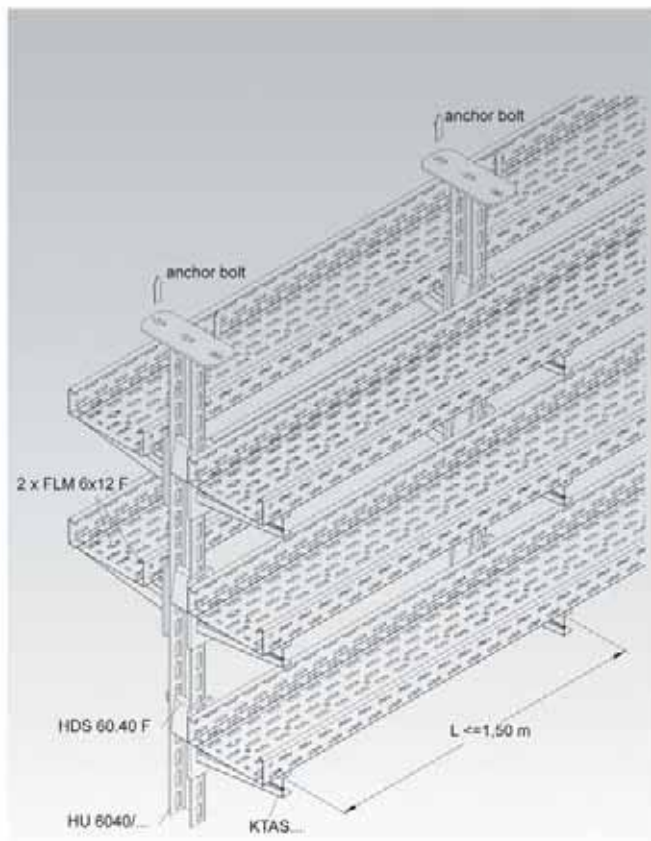
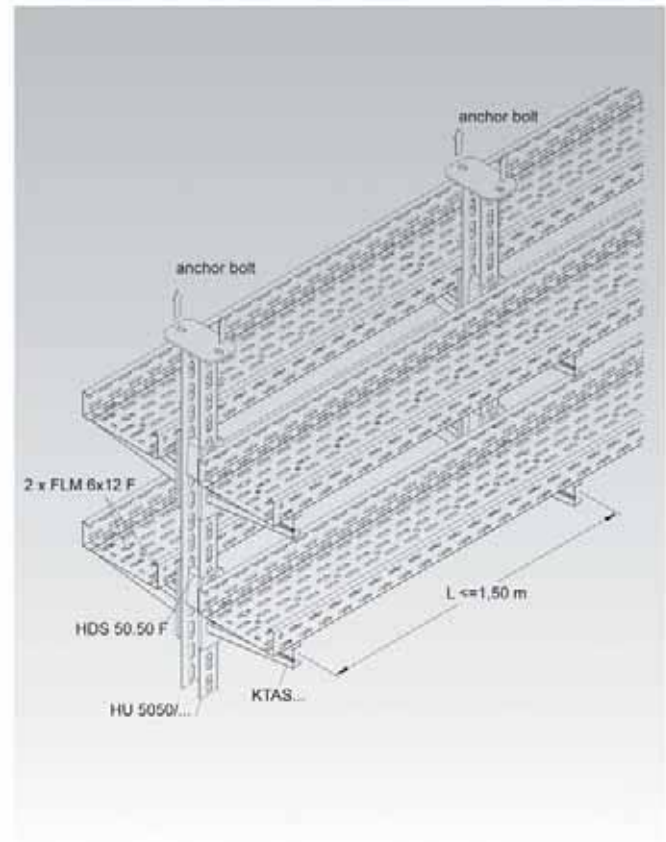
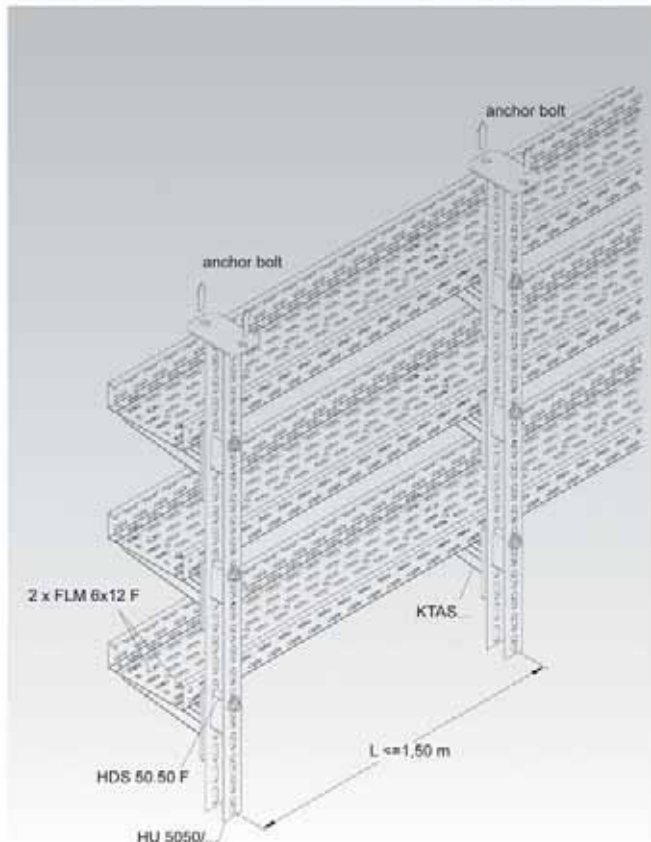
150 mm



200 - 600 mm

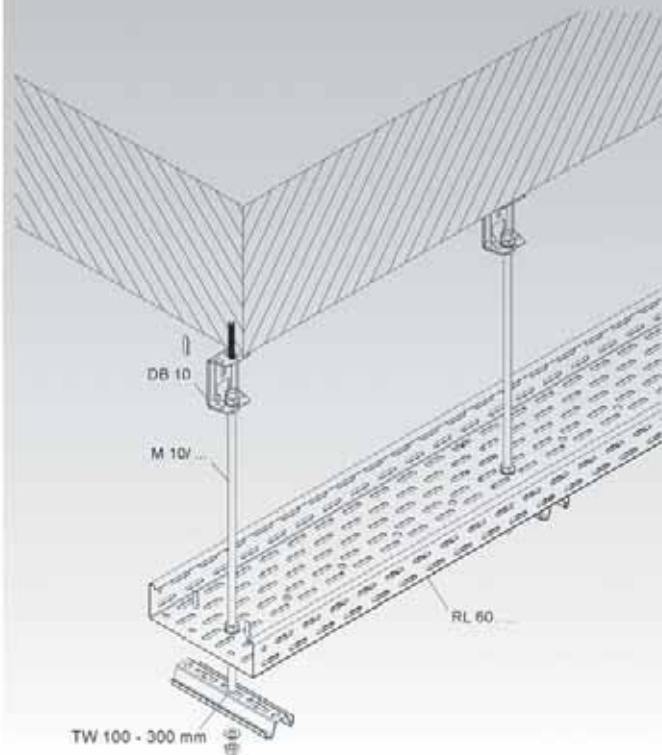


Installation Instructions

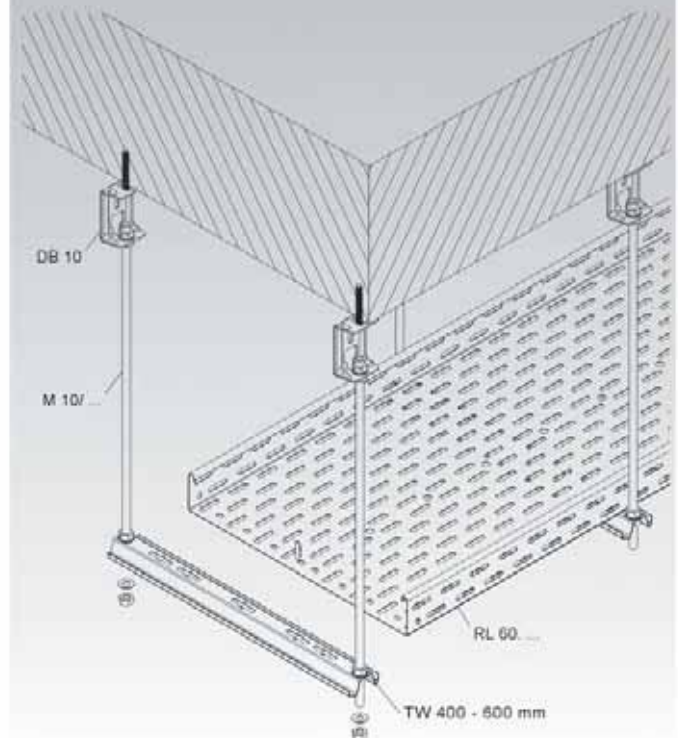


Installation Instructions

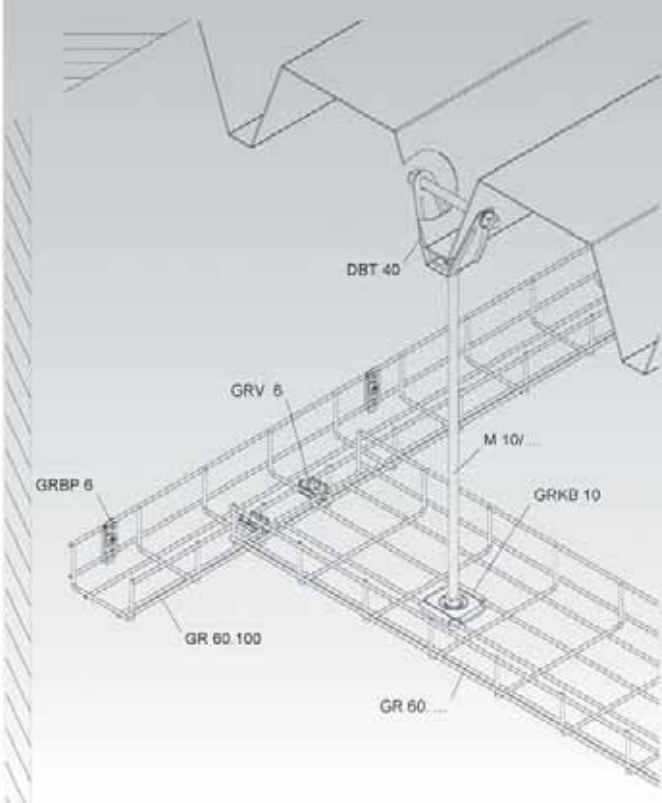
**Center hung of cable tray using TW...
support bracket (max. width of cable tray 300 mm).**



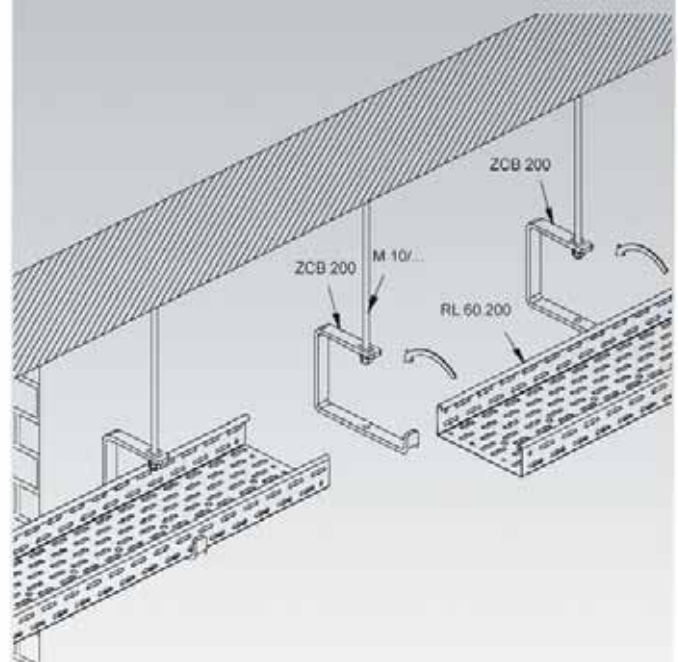
**Trapeze support of cable tray using TW...
support bracket (width of cable tray > 300 mm).**



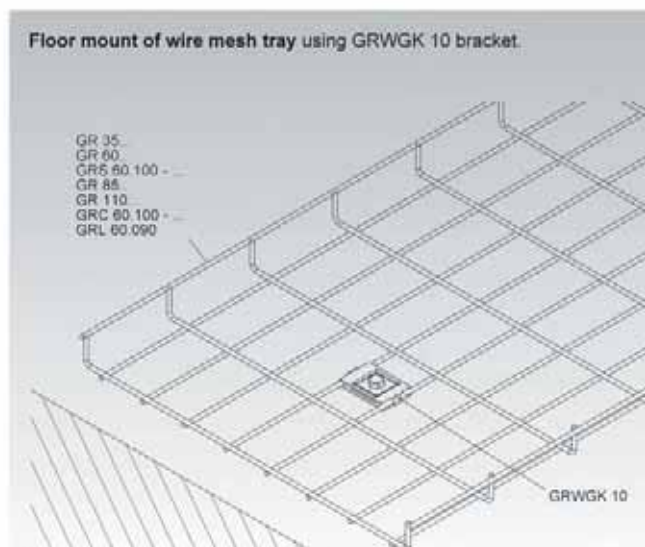
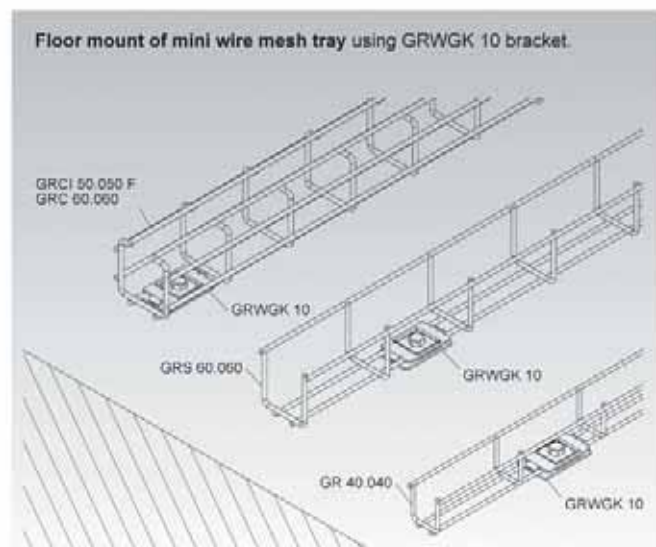
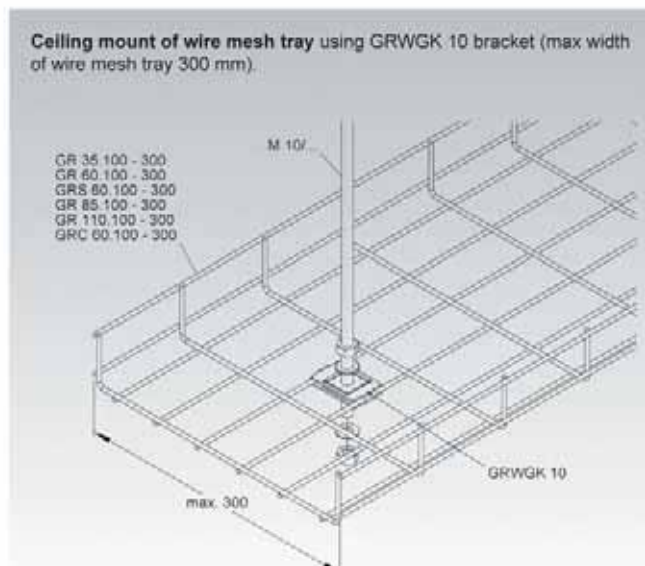
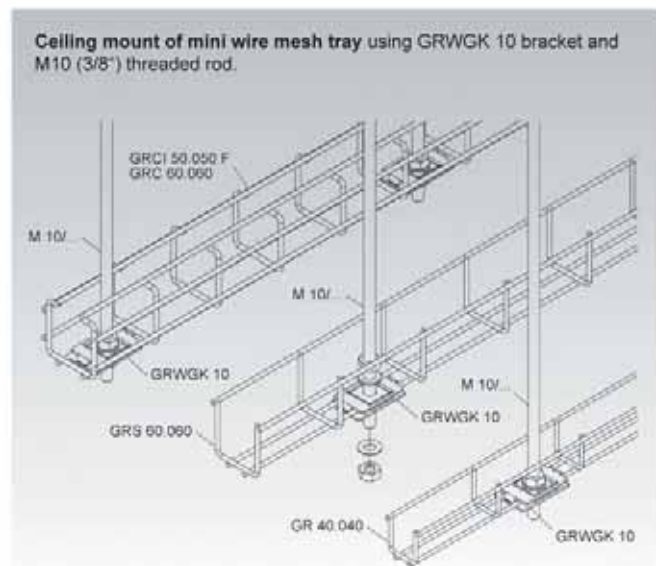
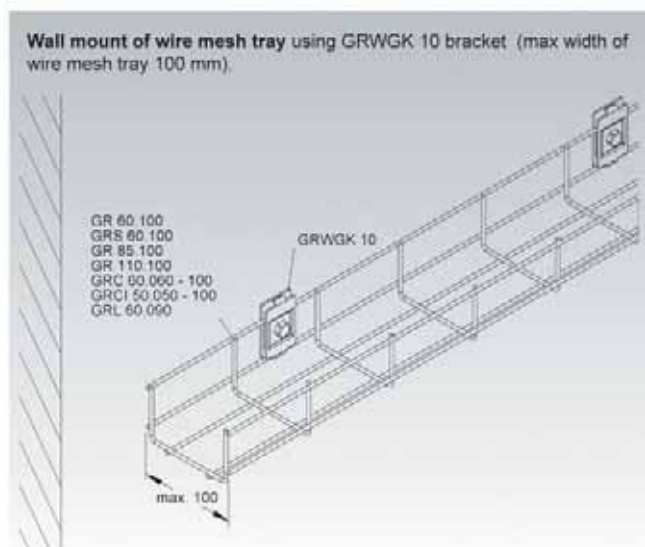
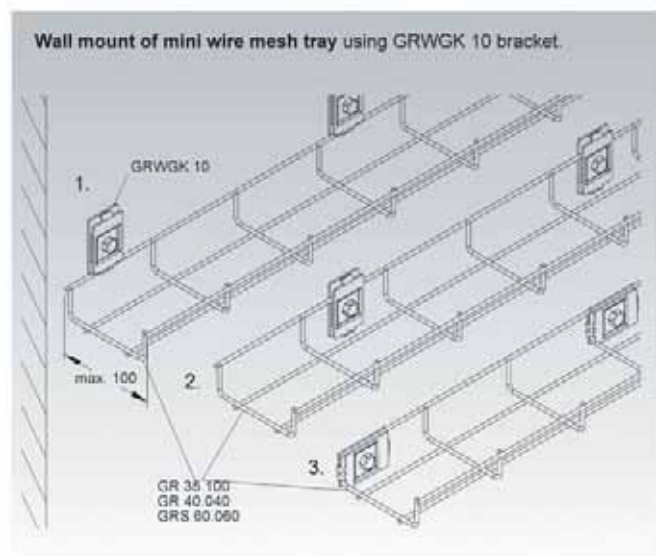
**Center hung from corrugated roof using GRKB 10 bracket
(max. width of basket tray 150 mm)**



Center hung from ceiling using ZCB bracket



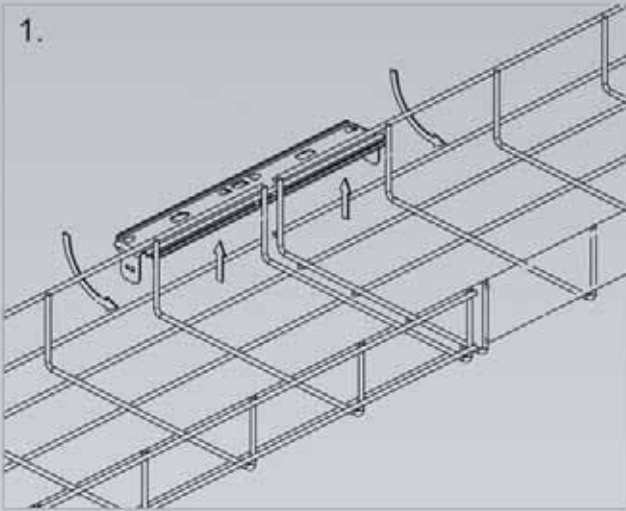
Installation Instructions



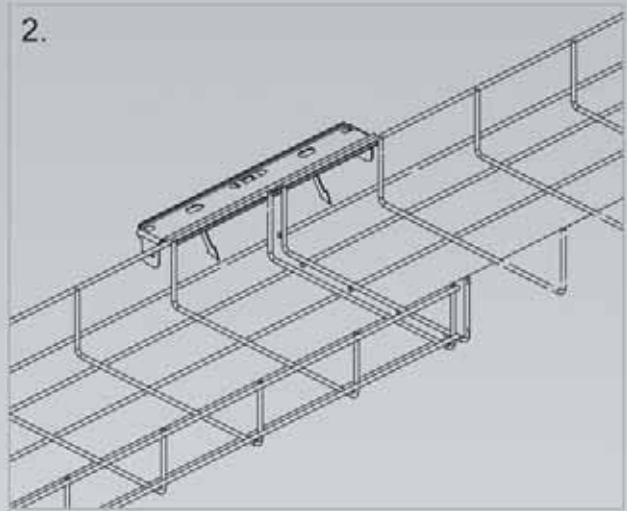
Installation Instructions

How to install the GRVS boltless splice plate for wire mesh tray

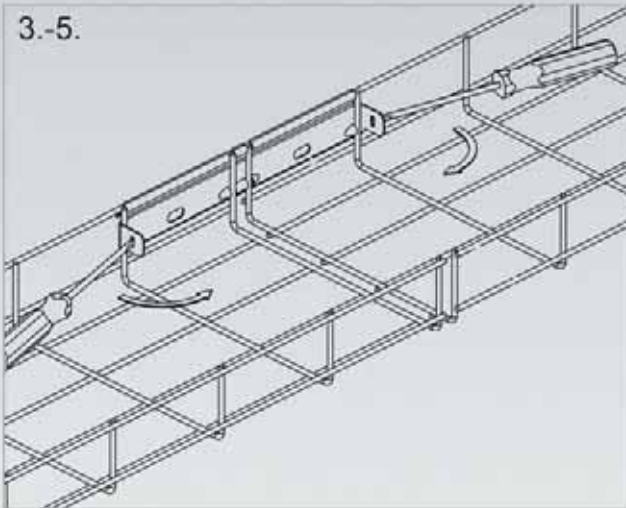
1.



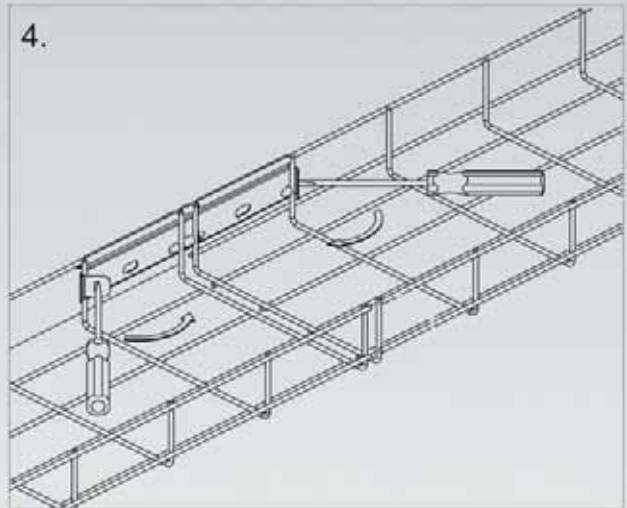
2.



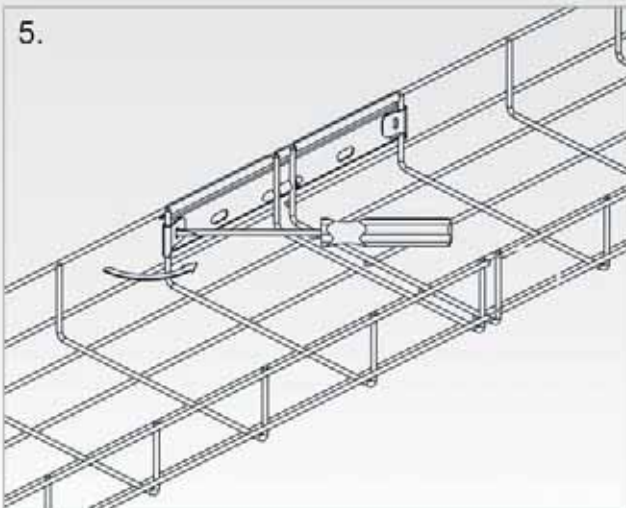
3.-5.



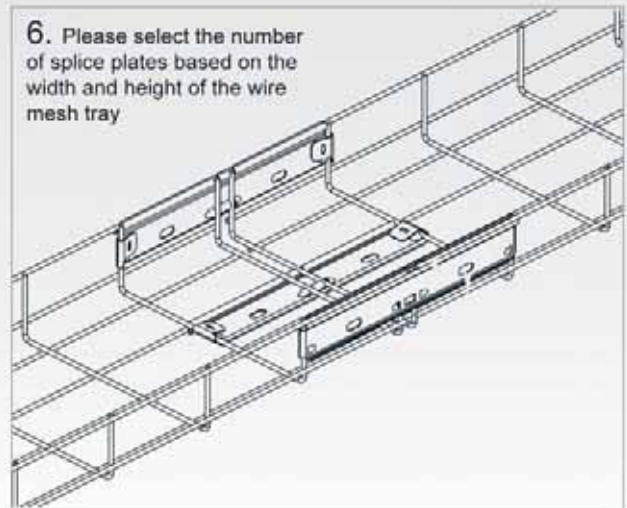
4.



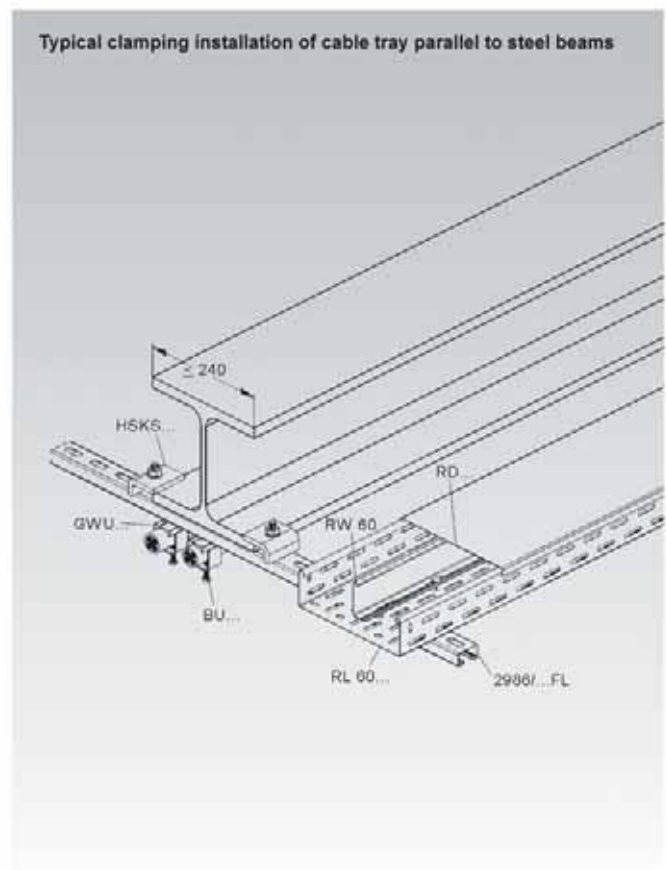
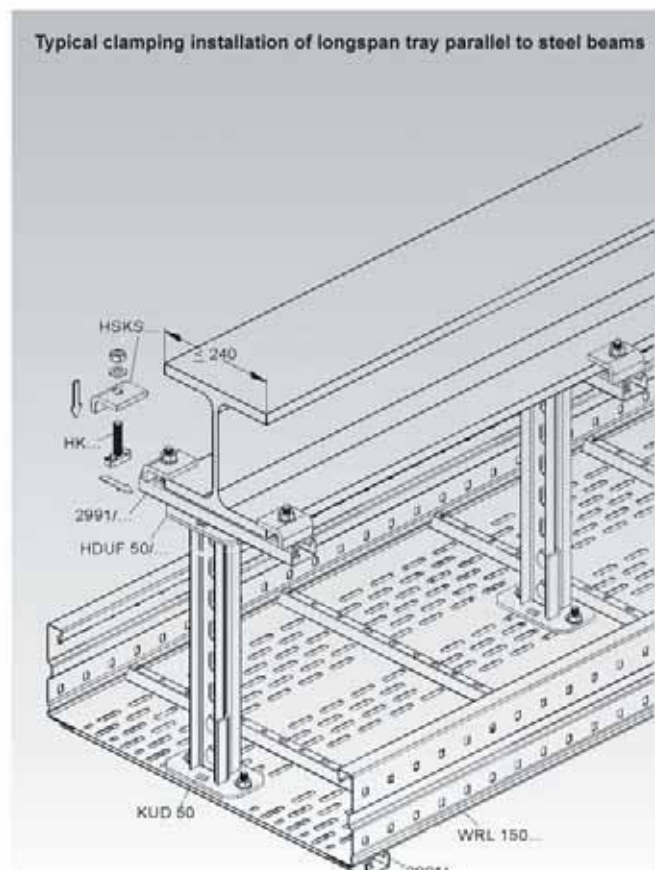
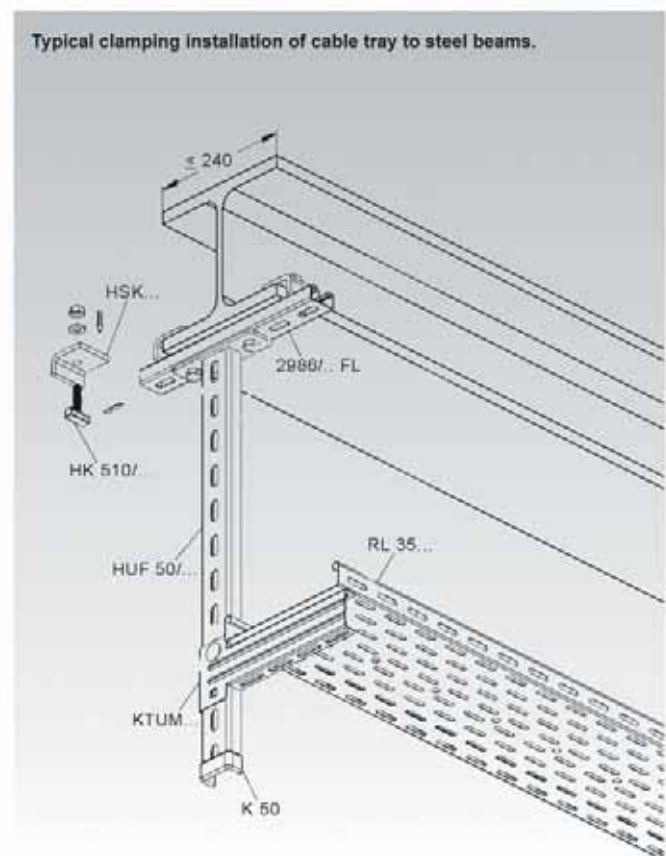
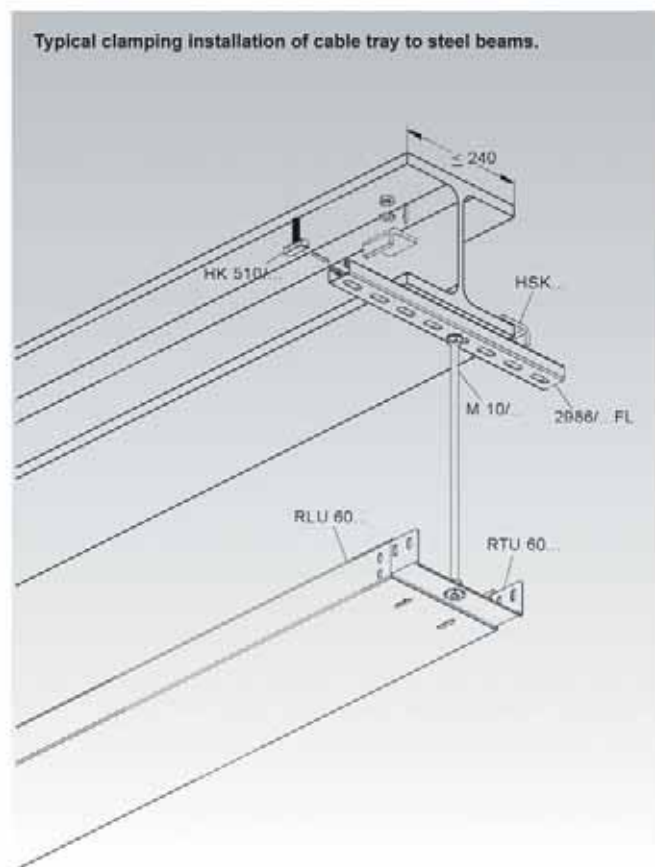
5.



6. Please select the number of splice plates based on the width and height of the wire mesh tray

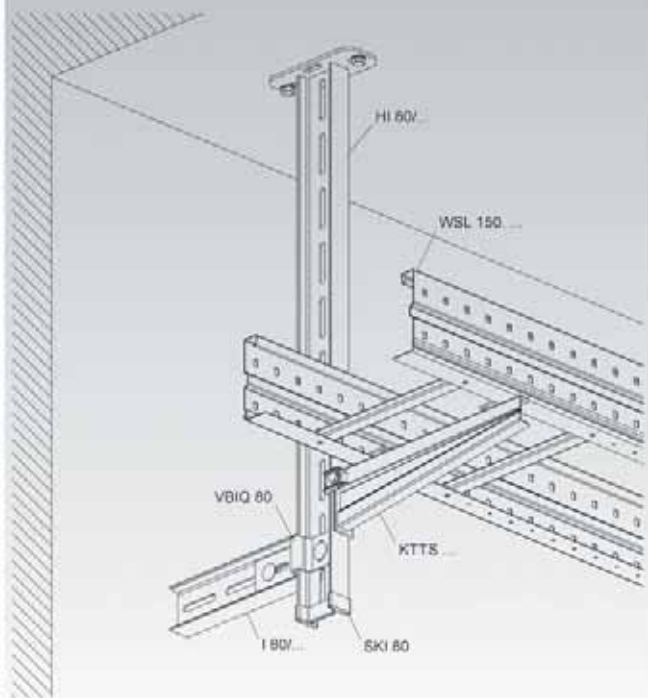


Installation Instructions

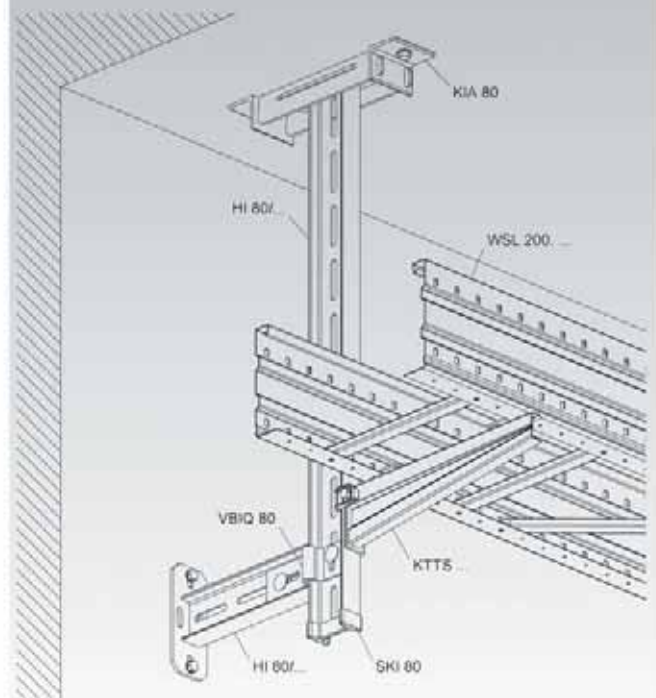


Installation Instructions

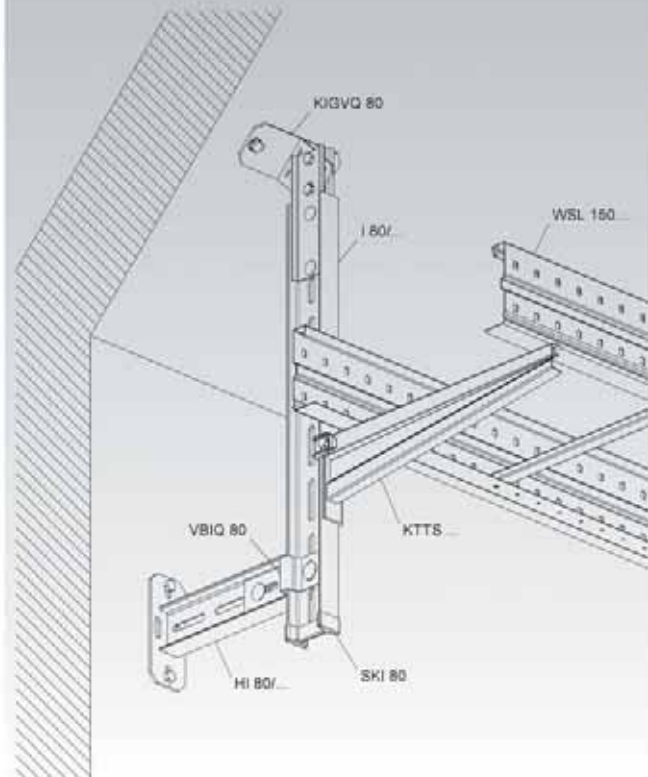
Typical installation of a heavy duty overhead hanger to a horizontal ceiling with extra wall support to minimize torsional stress.



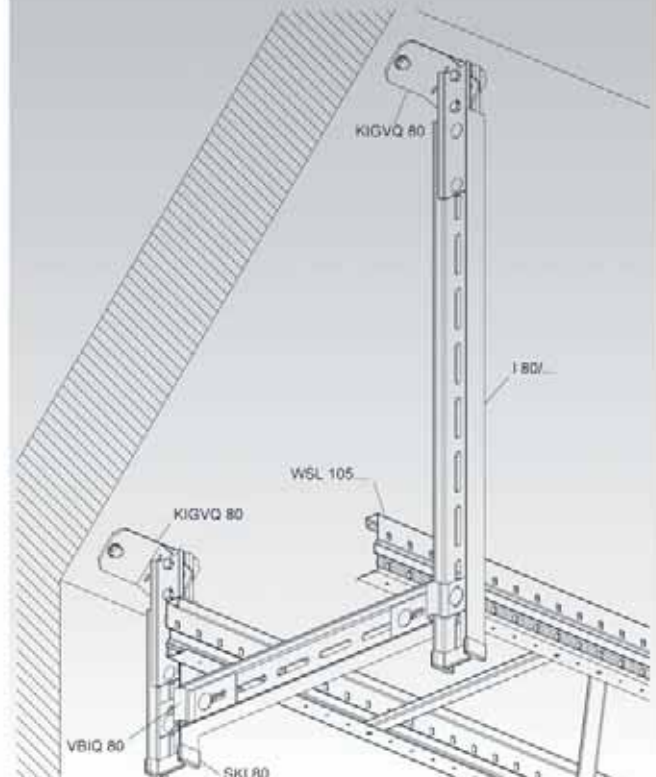
Reinforced mounting of a heavy duty overhead hanger to a horizontal ceiling with extra wall support to minimize torsional stress.



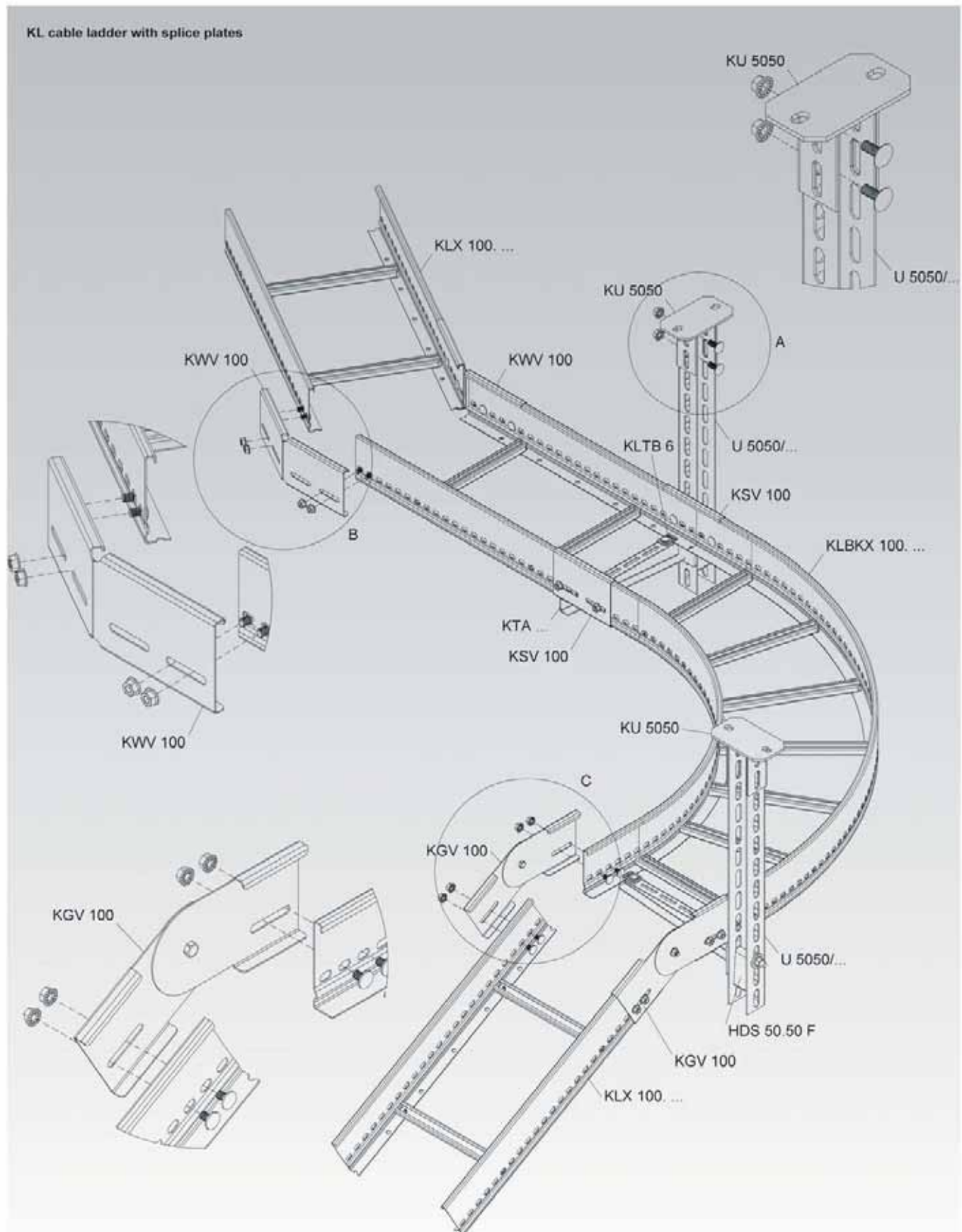
Typical installation of a heavy duty overhead hanger to a sloping ceiling with extra wall support to minimize torsional stress.



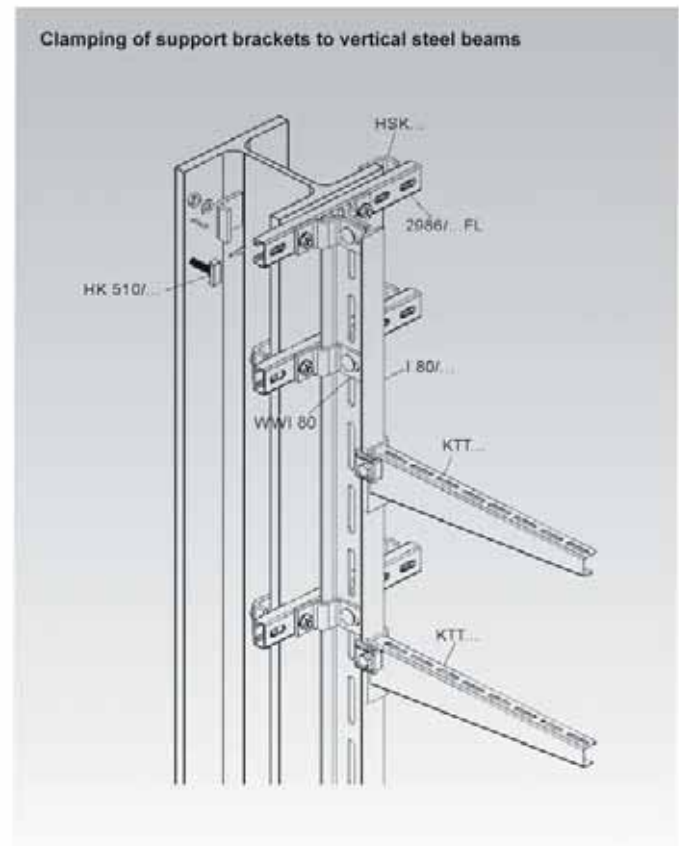
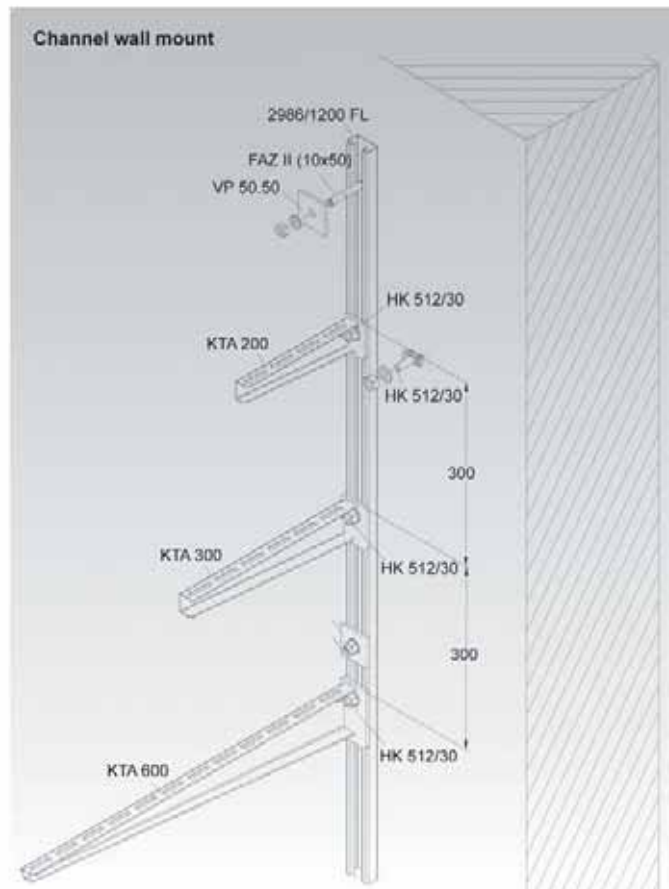
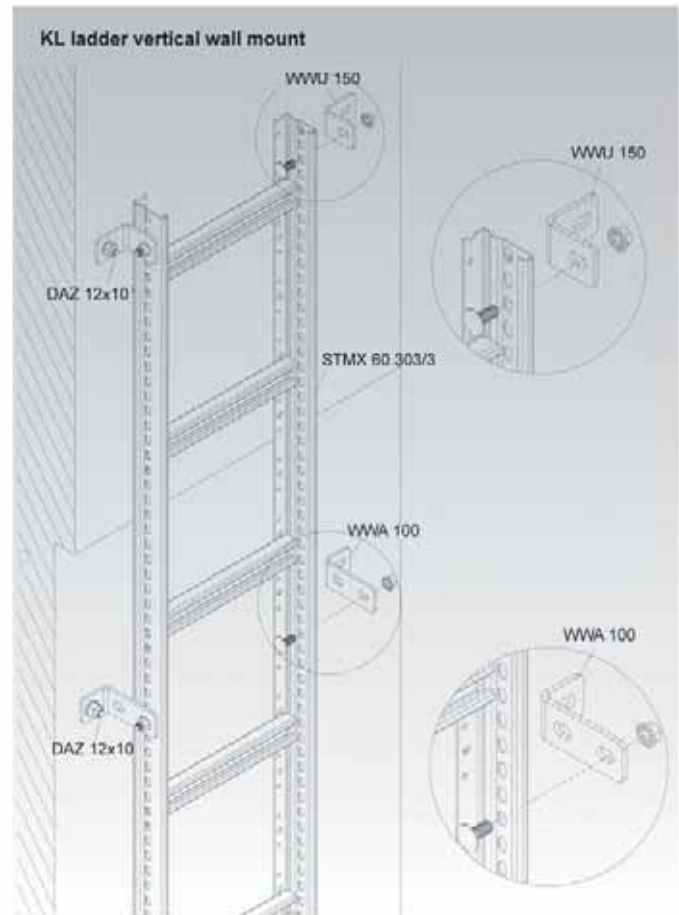
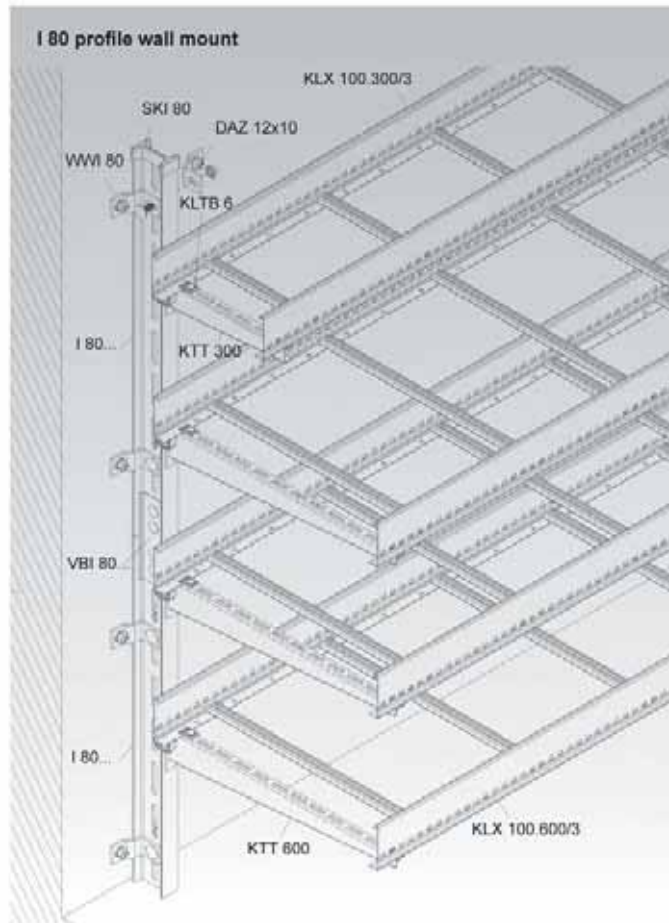
Trapeze type installation to a sloping ceiling using adjustable head plates and heavy duty I 80 profile.



Installation Instructions



Installation Instructions

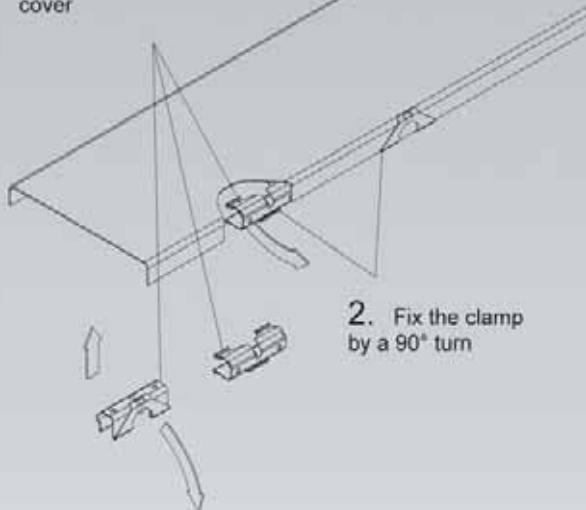


GENERAL INFORMATION

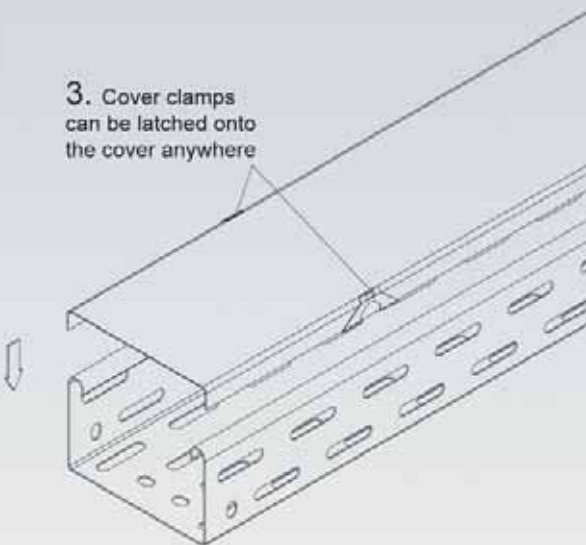
Install-/Deinstall Instructions

How to install/deinstall the cover clamp

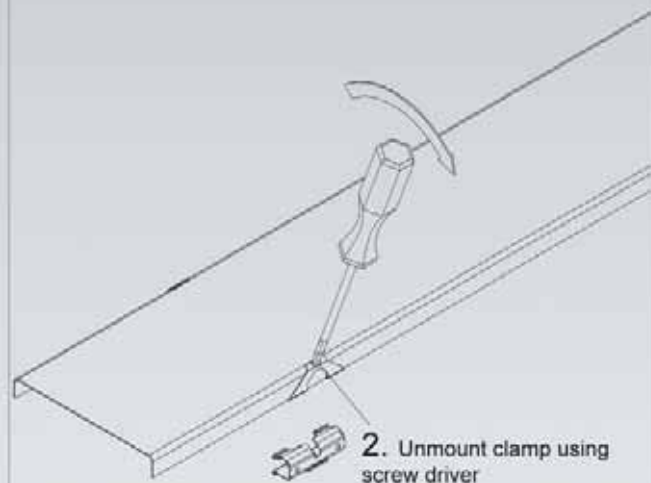
1. Put RDHF 9 E3 into position at the flange of the cover



3. Cover clamps can be latched onto the cover anywhere



1. strip off cover (clamp stays on cover)

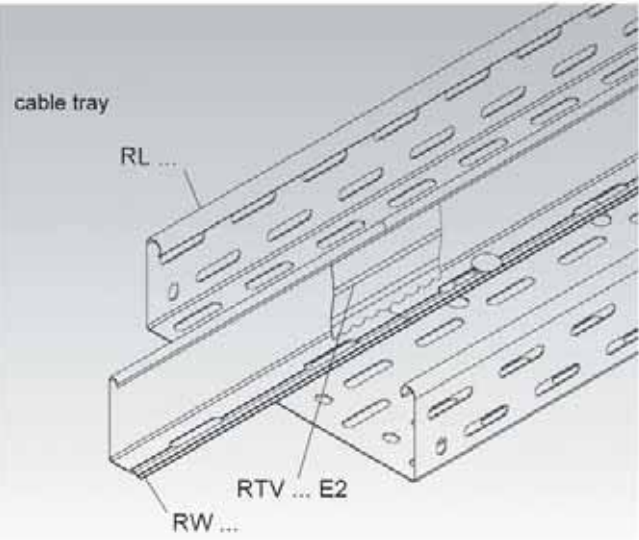
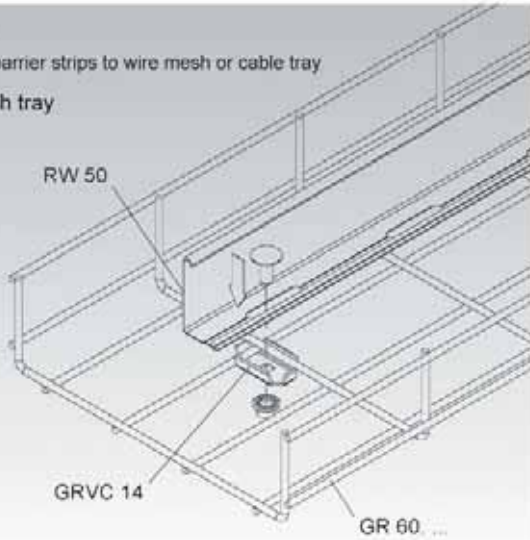


Cover clamp can be reused if removed properly.

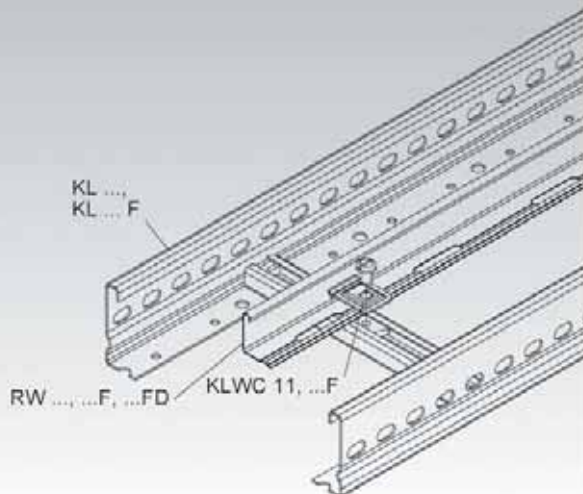
Installation Instructions

RW...

Installing barrier strips to wire mesh or cable tray
wire mesh tray

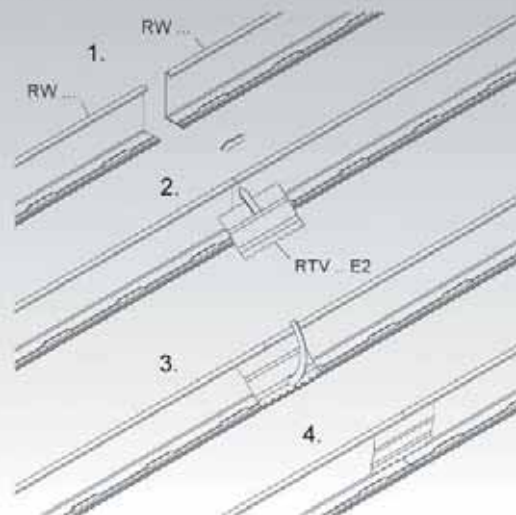


Installing barrier strips to cable ladders in **S** or **F** finish



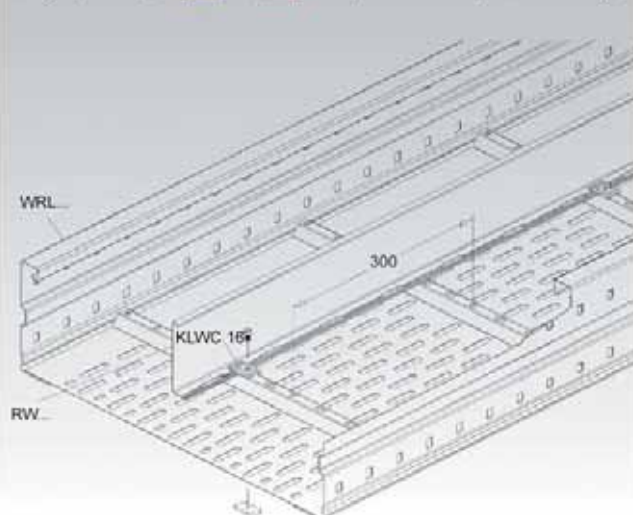
RTV...

Installing barrier strip splice plate

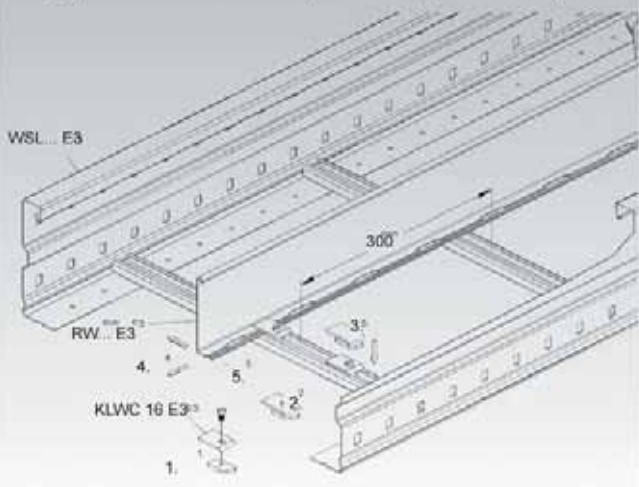


Installing barrier strips to long span tray or ladder

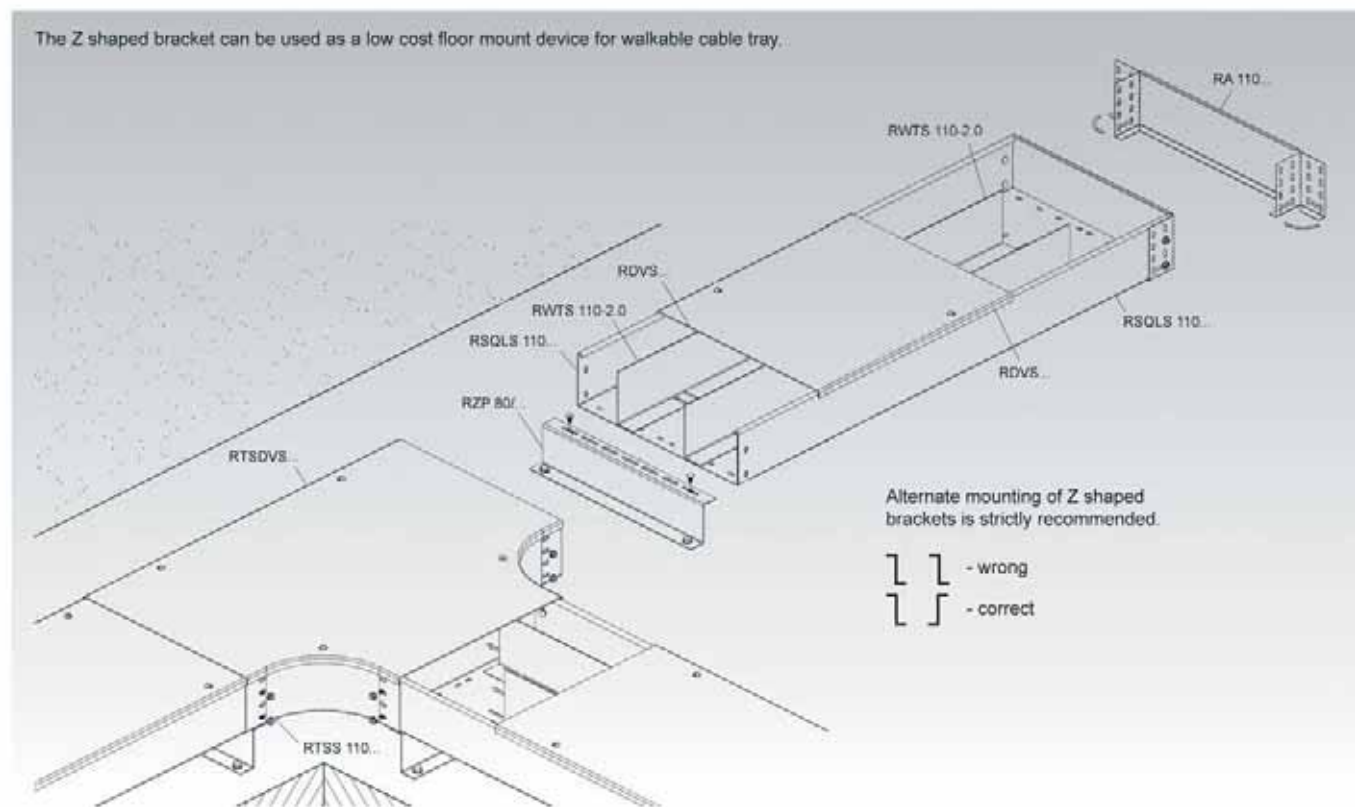
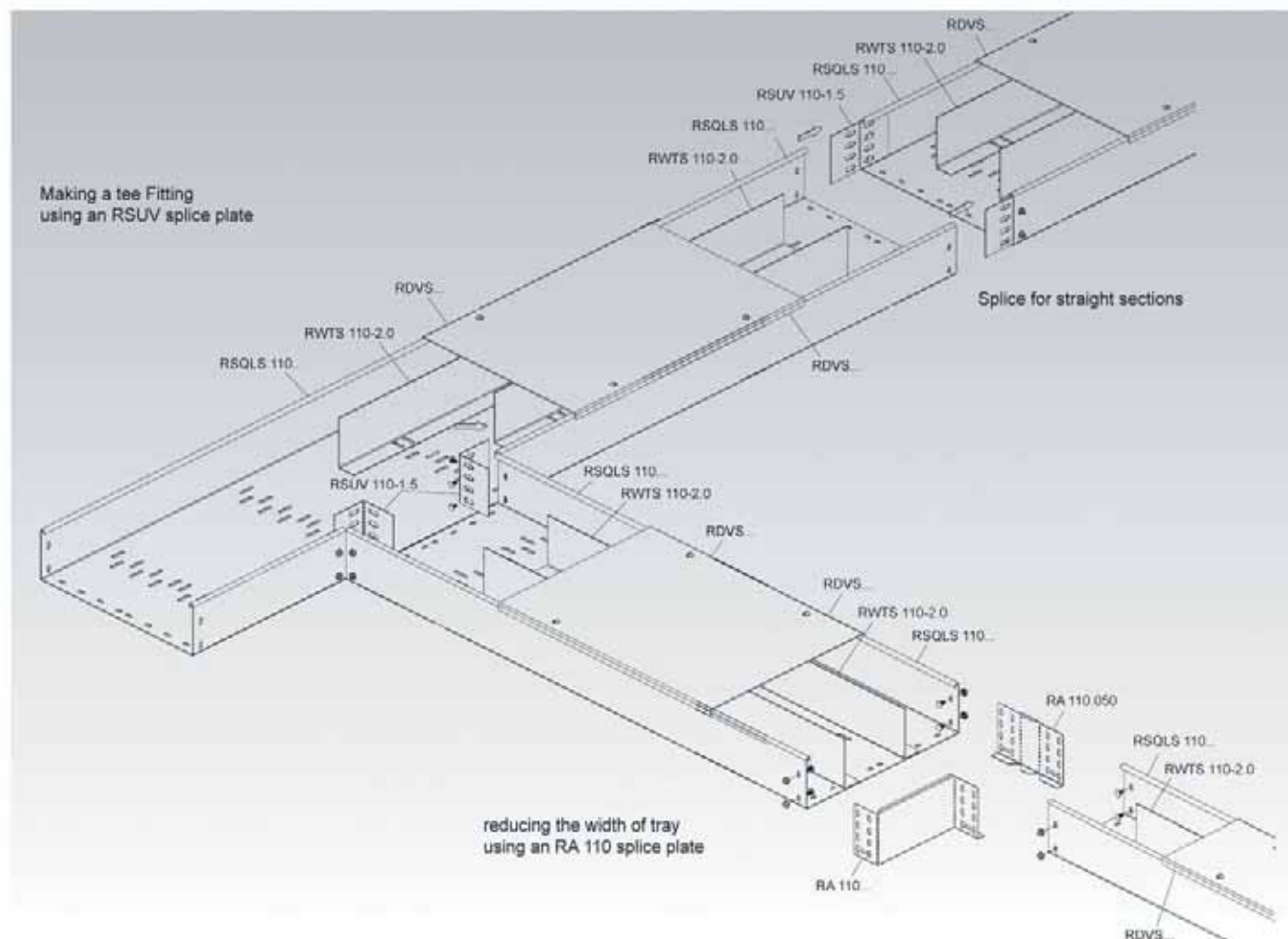
Long span tray in **S** or **F** finish (bolt to every second rung)



Long span ladder in ER finish (bolt to every second rung)

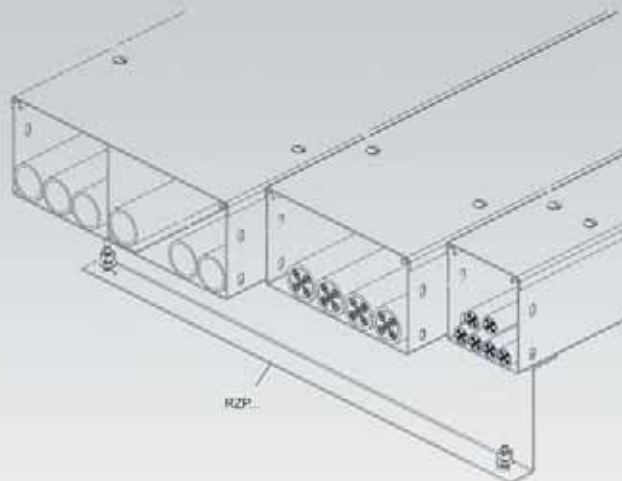


Installation Instructions

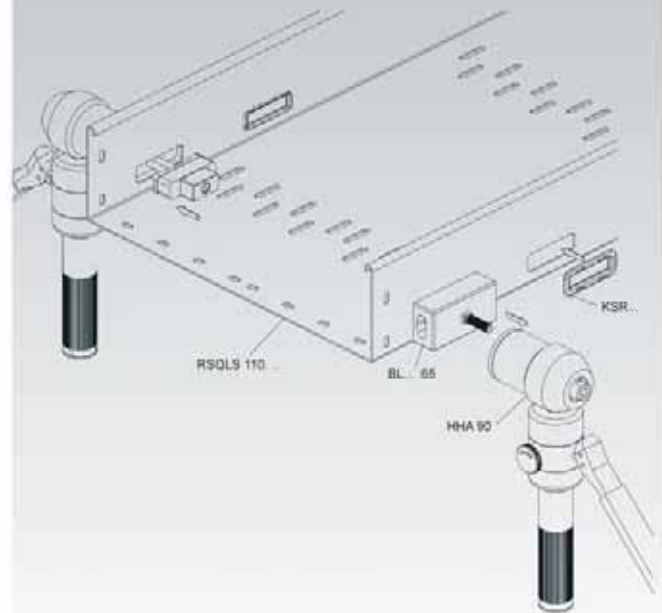


Installation Instructions

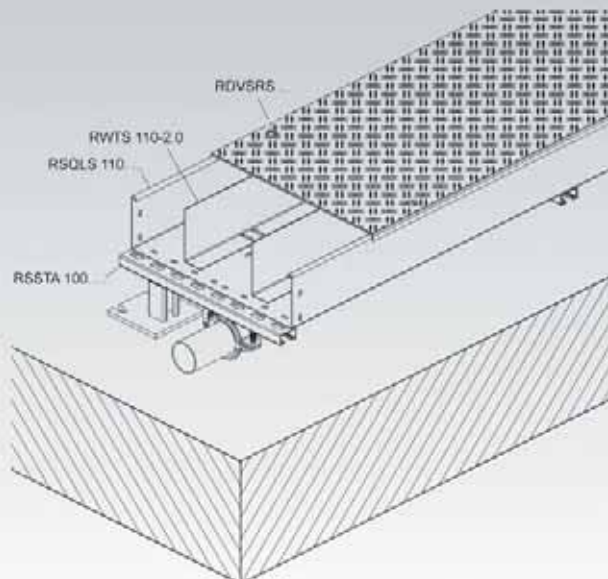
How to install multiple straight sections of tray on a single RZP bracket



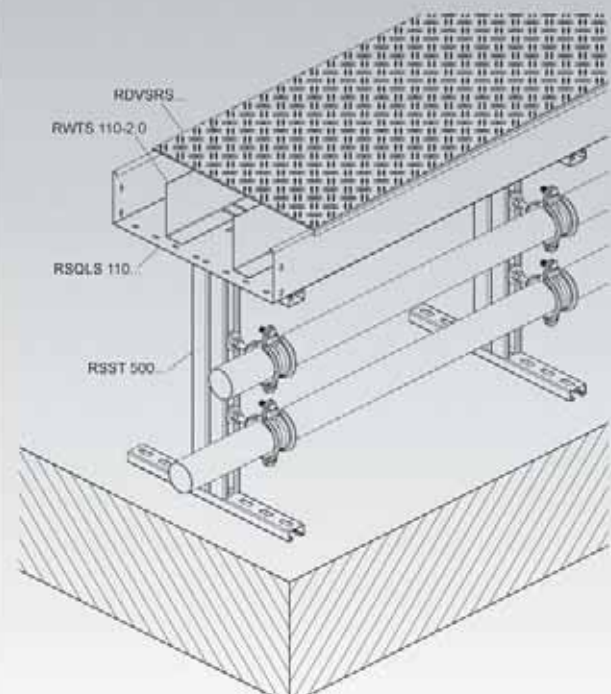
How to punch extra holes into cable tray (max. thickness 2 mm)



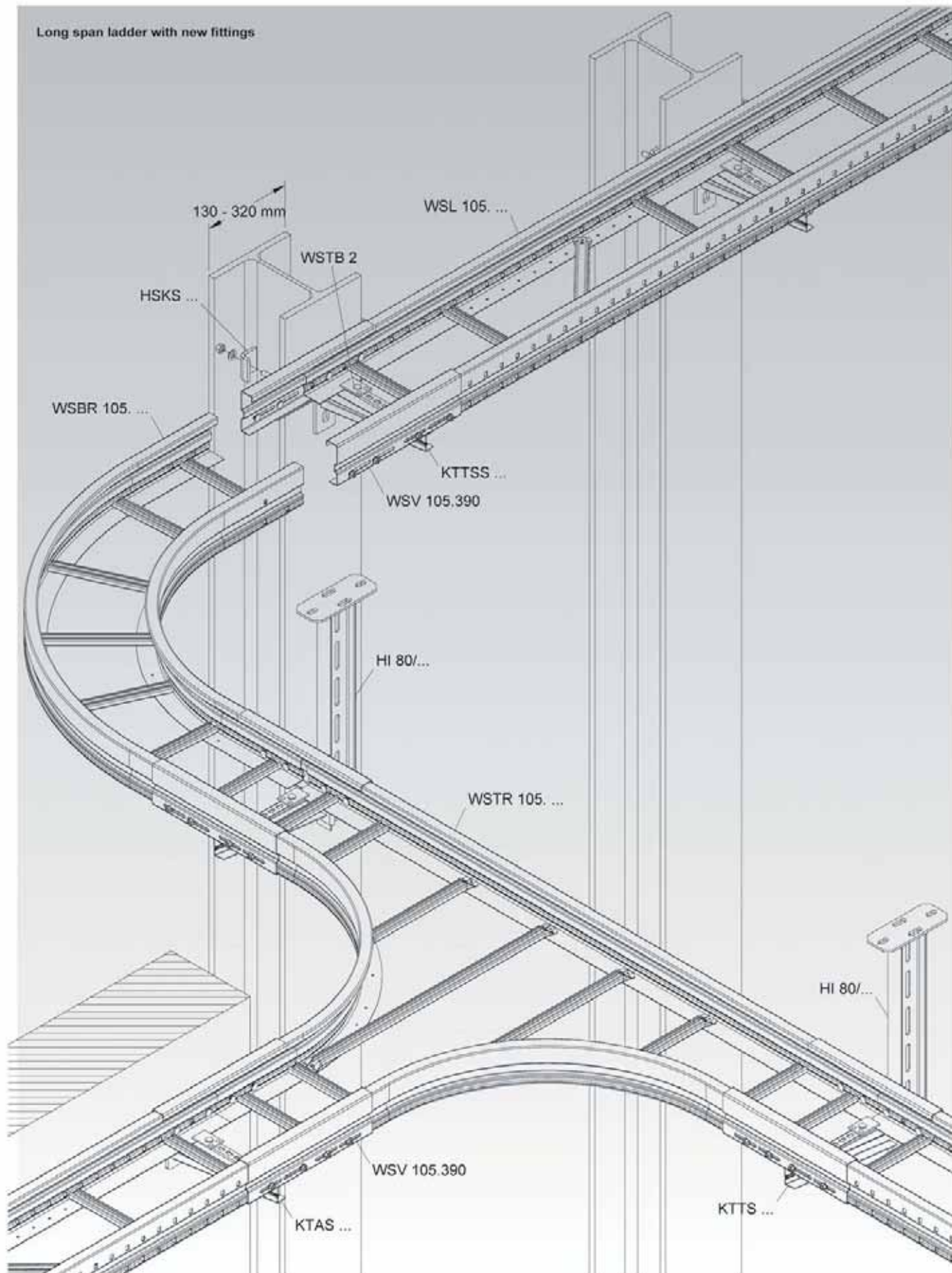
asymmetrical floor support RSSTA 100



symetrical floor support RSST 500

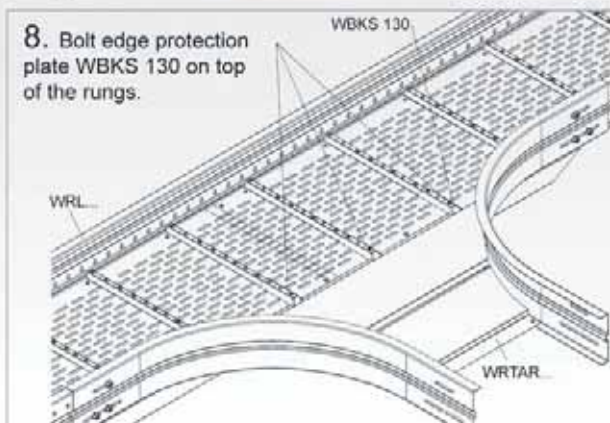
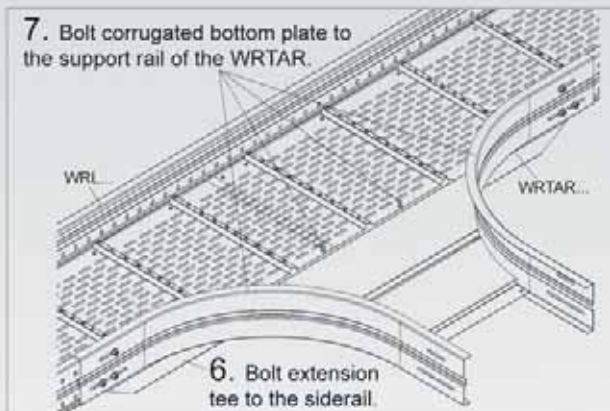
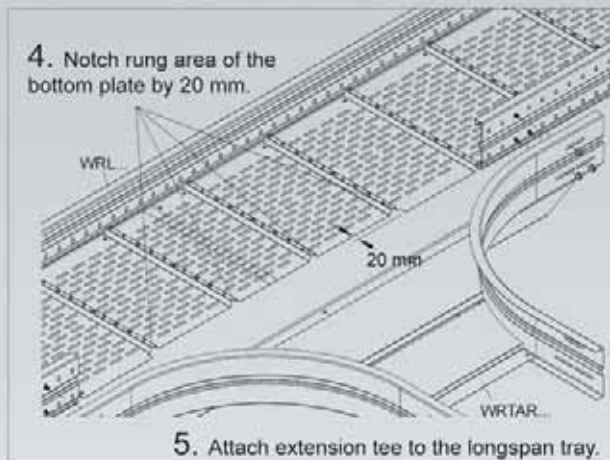
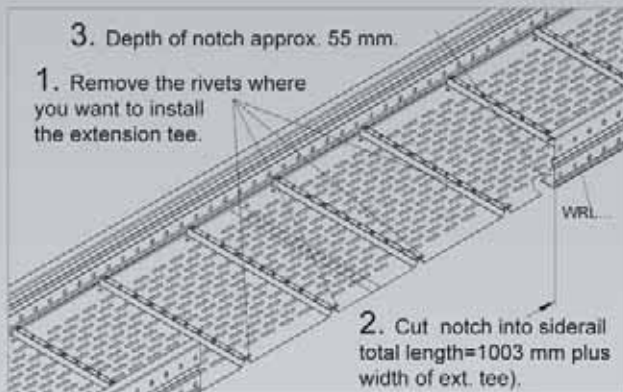


Installation Instructions

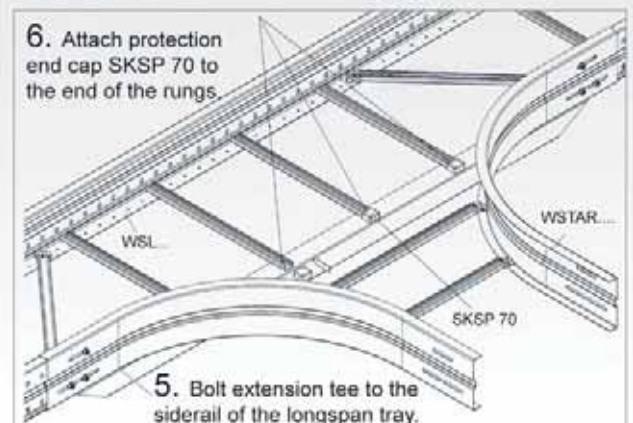
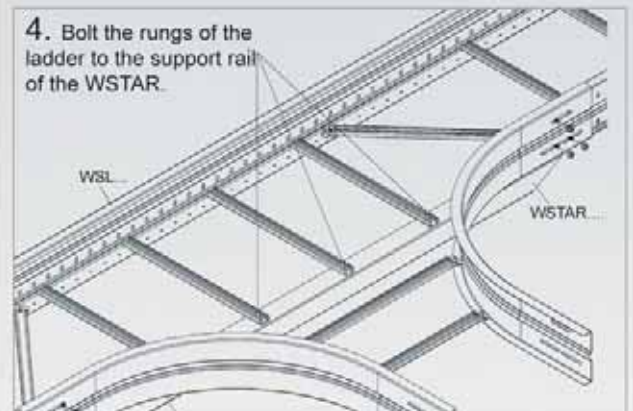
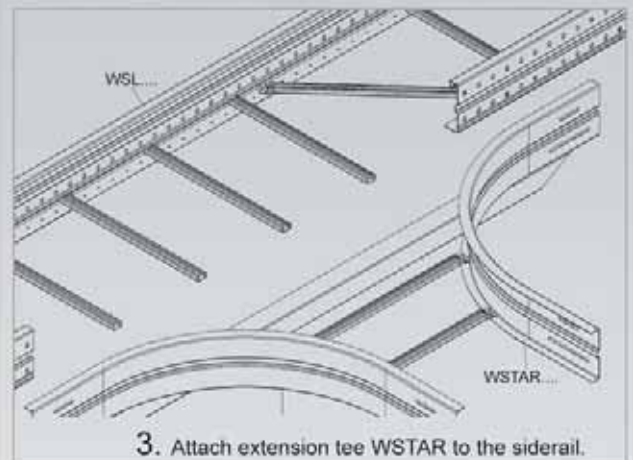
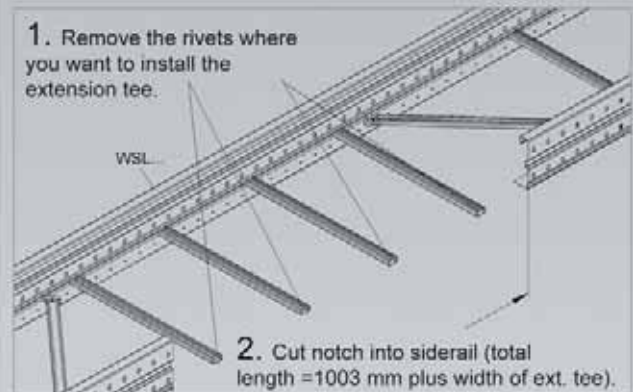


Installation Instructions

WRTAR...

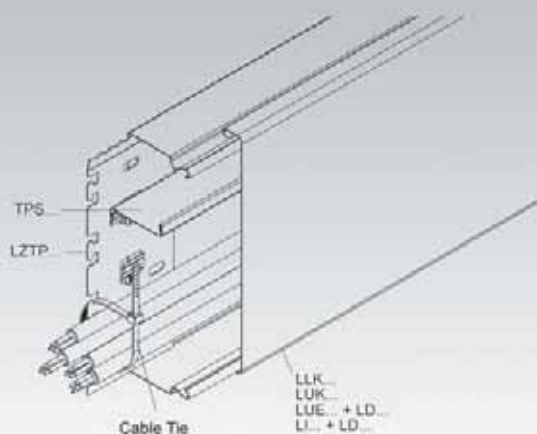


WSTAR...

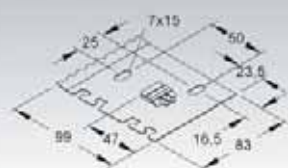


Installation Instructions

Installation of Divider using LZTP... mounting plate



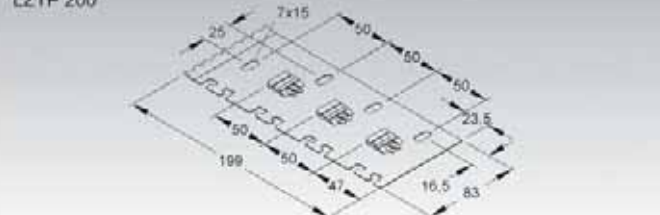
LZTP 100



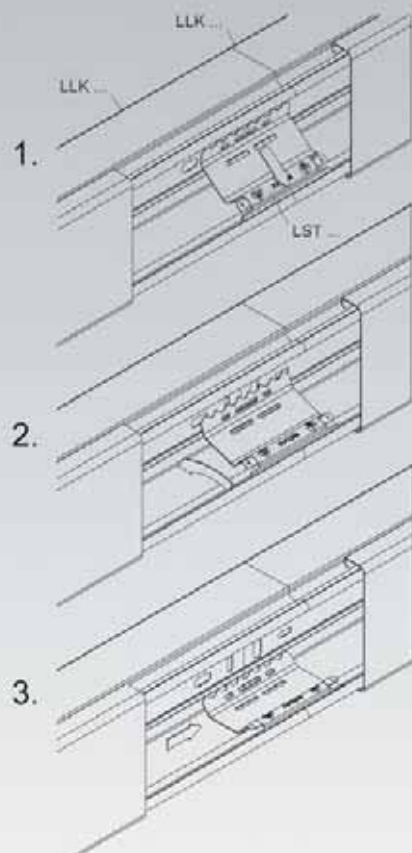
LZTP 150



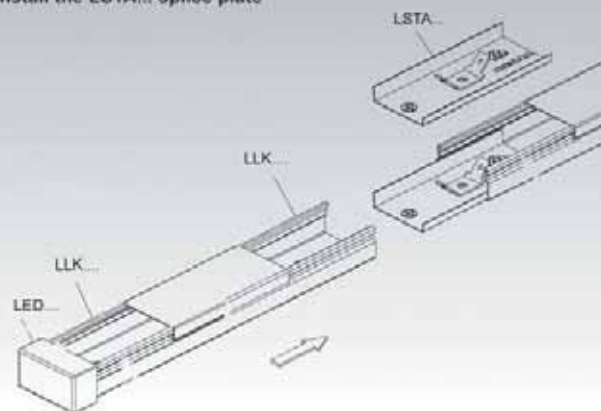
LZTP 200



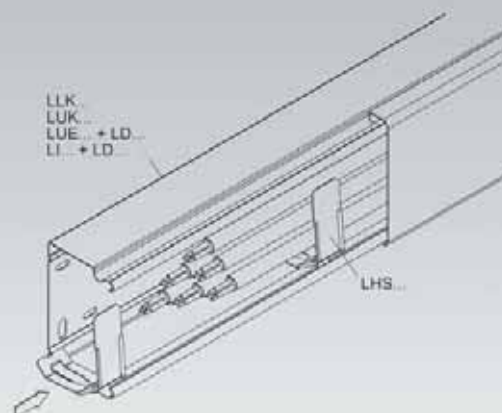
How to install Surface Raceway LLK... and LUK... with Splice Plate LST...



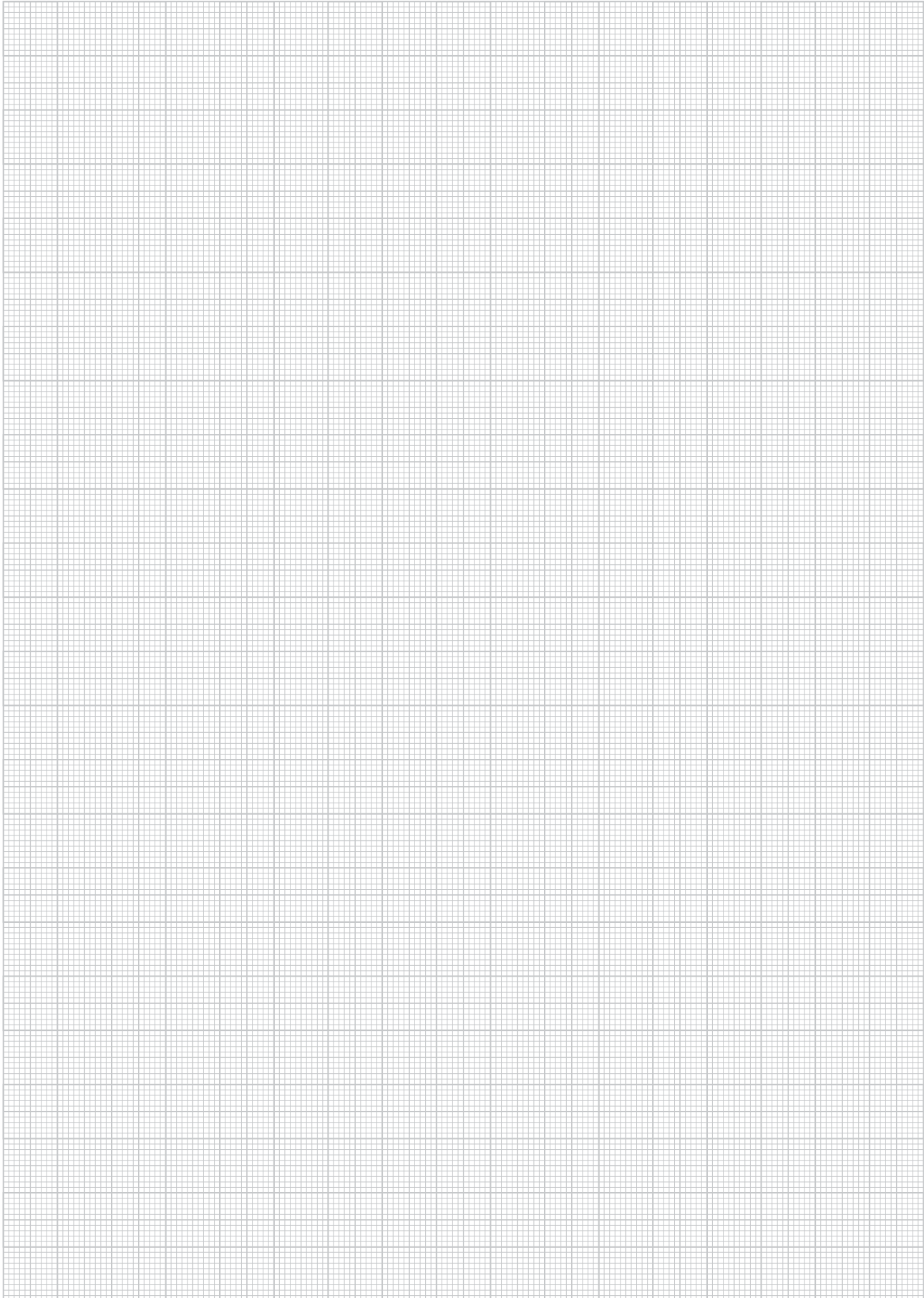
How to install the LSTA... splice plate



How to install the cable support clamp



NOTES

A large rectangular area filled with a fine grid of light gray lines, intended for taking notes or drawing.

Support System

Overhead Hangers

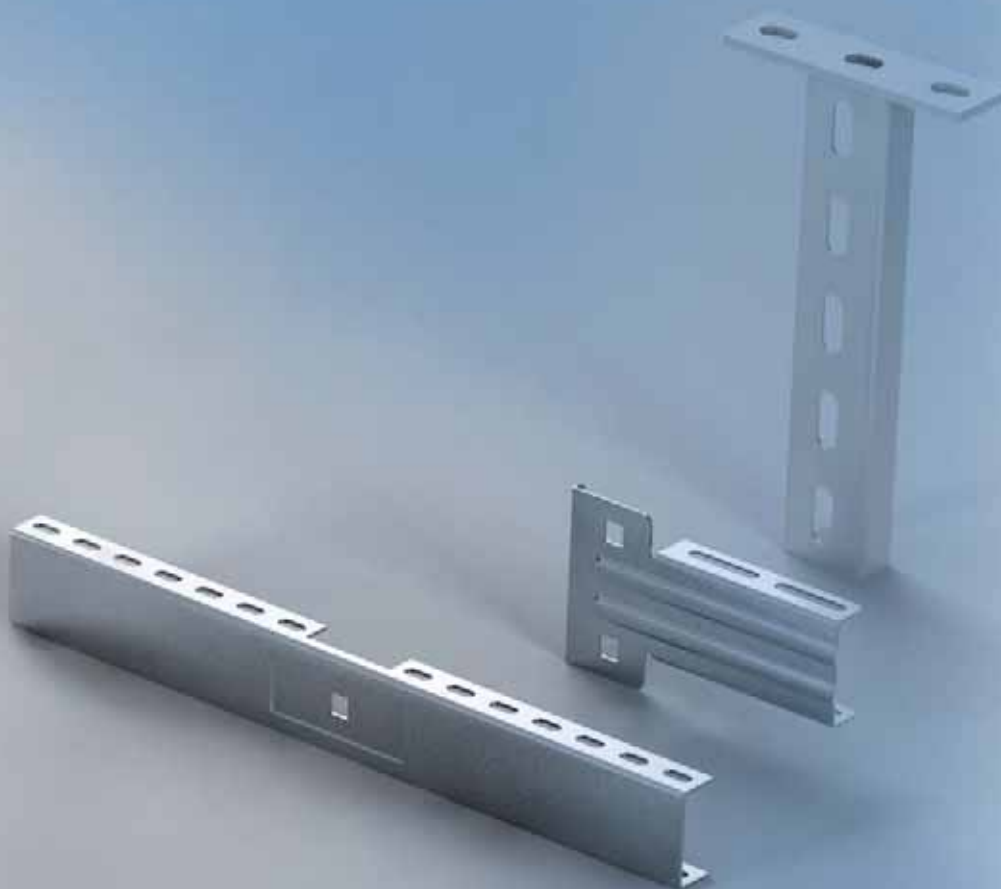
Brackets

C-Profiles

Head Plates



Niedax offers a wide variety of support systems for all kinds of applications. Light, medium and heavy duty versions of hangers and brackets for ceiling, floor and wall mount; clamping brackets and headplates for installing to steel structures; C- I- and U-profiles for metal framing; a wide range of accessories like serrated flange nuts, sliding nuts, threaded rod, anchor bolts, ...



Overview Wall Brackets

Page 72

Overhead Hanger, heavy-duty

TKS...

Bearing Capacity:
0,50 kN - 1,5 kN

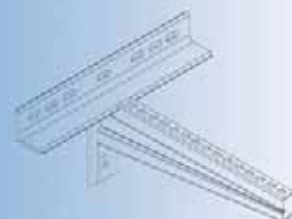


Page 77

Clamping Bracket,
extra heavy-duty

KTTSS...

Bearing Capacity:
7,5 kN - 10 kN



Page 74

Overhead Hanger
and Wall Bracket, medium

KTAM...

Bearing Capacity:
1,2 kN



Page 96-97

Snap-In Bracket

RCB...

REBA..., REBI...



Page 74-75

Overhead Hanger
and Wall Bracket, standard

KTA...

Bearing Capacity:
2,5 kN - 3,5 kN



Page 97

Hanger for Ceiling Suspension

DBT...

DBG...

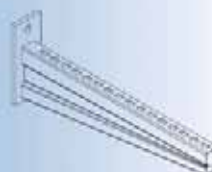


Page 76

Wall Bracket, heavy-duty

KTAS...

Bearing Capacity:
5 kN



Page 97+73

Hanger for Suspended Ceiling

ZCB...

TKSU...



Page 76

Wall Bracket,
extra heavy-duty

KTASS...

Bearing Capacity:
10 kN



Page 105

Treaded Rod

M...



! The classification of brackets and hangers into categories like light, medium and heavy is only an indication for their typical usage. For engineering purposes exact calculations of overall loads considering the weight of the cable, the weight of the tray and the support span are mandatory.

Overview Hangers

Page 78

Overhead Hanger

HUF 50/...

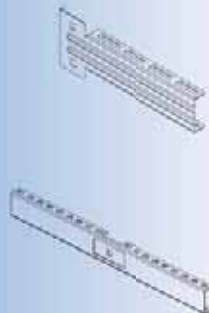
Profil: U 50



Overhead Hanger
and Wall Bracket

KTUM...

KTDL...



Page 86

Overhead Hanger

HU 6040/...

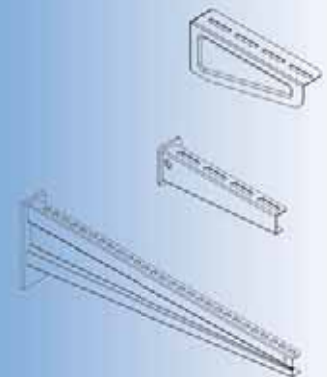
Profil: U 6040



Overhead Hanger
and Wall Bracket

KTAM...

KTA...



Page 82

Overhead Hanger

HU 5050/...

Profil: U 5050



Overhead Hanger
and Wall Bracket

KTAM...

KTA...



Page 92

Overhead Hanger

HI 80/...

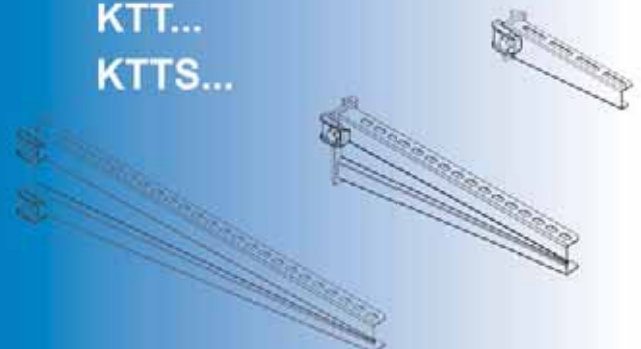
Profil:
I 80 acc. to DIN 1025



Overhead Hanger
and Wall Bracket

KTT...

KTTS...



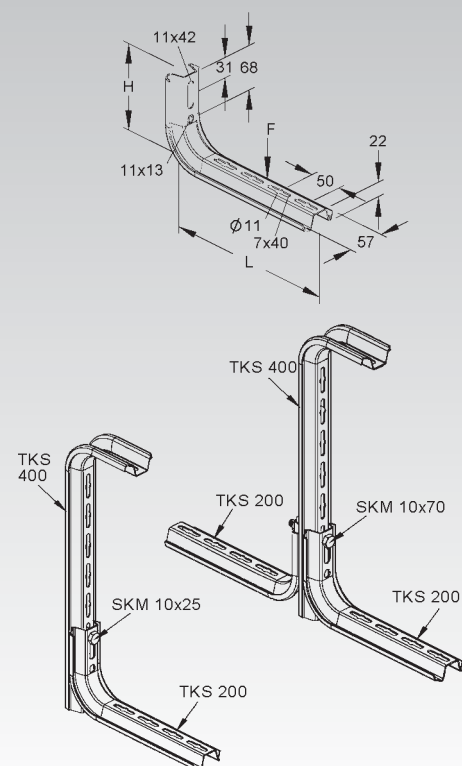
Combination Bracket/Hanger

model no.	height H	length A	admissible load F at L/2	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	kN			
S TKS 100	132/5,1	163/6,4	1,5	2 FLM 6x12	183906	27
S TKS 150	132/5,1	213/8,3	1,2	2 FLM 6x12	184002	30
S TKS 200	132/5,1	263/10,3	1,1	2 FLM 6x12	184101	39
S TKS 250	132/5,1	313/12,2	0,9	2 FLM 6x12	184200	46
S TKS 300	132/5,1	363/14,2	0,75	2 FLM 6x12	184309	53
S TKS 350	132/5,1	413/16,1	0,6	2 FLM 6x12	184408	59
S TKS 400	132/5,1	463/18,1	0,5	2 FLM 6x12	184507	65
F TKS 100 F	132/5,1	163/6,4	1,5	2 FLM 6x12 F	815500	31
F TKS 150 F	132/5,1	213/8,3	1,2	2 FLM 6x12 F	815524	37
F TKS 200 F	132/5,1	263/10,3	1,1	2 FLM 6x12 F	815548	43
F TKS 250 F	132/5,1	313/12,2	0,9	2 FLM 6x12 F	815562	49
F TKS 300 F	132/5,1	363/14,2	0,75	2 FLM 6x12 F	815586	55
F TKS 350 F	132/5,1	413/16,1	0,6	2 FLM 6x12 F	815609	61
F TKS 400 F	132/5,1	463/18,1	0,5	2 FLM 6x12 F	815623	68
E3 TKS 100 E3	132/5,1	163/6,4	1,5	2 FLM 6x12 E3	329106	31
E3 TKS 200 E3	132/5,1	263/10,3	1,1	2 FLM 6x12 E3	329205	43
E3 TKS 300 E3	132/5,1	363/14,2	0,75	2 FLM 6x12 E3	329304	55
E3 TKS 400 E3	132/5,1	463/18,1	0,5	2 FLM 6x12 E3	329328	68

for mounting on walls and horizontal ceilings or to overhead hangers

Always use TKSD 20 spacer to avoid deformation of TK type brackets when bolting to wall or ceiling.

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



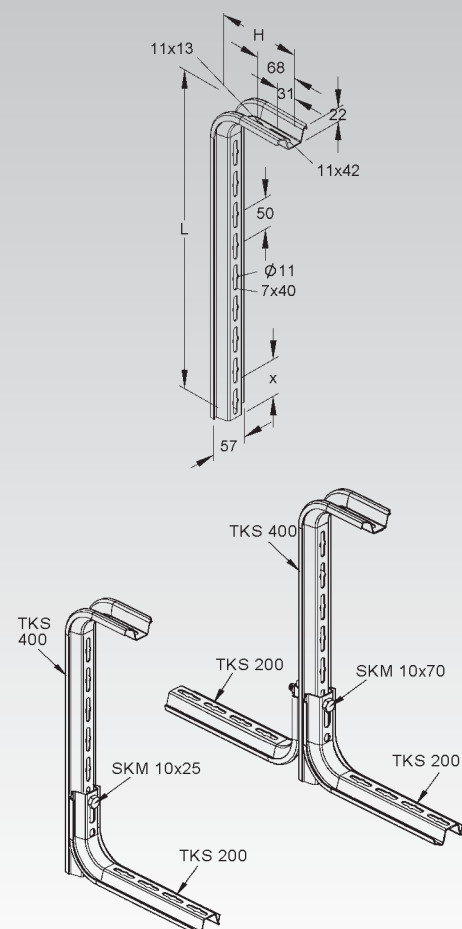
Overhead Hanger

model no.	height H	length A	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch			
S TKS 450	132/5,1	513/20	2 FLM 6x12	184606	72
S TKS 500	132/5,1	563/22	-	184705	77
S TKS 600	132/5,1	663/25,9	-	184804	90
F TKS 450 F	132/5,1	513/20	2 FLM 6x12 F	815647	79
F TKS 500 F	132/5,1	563/22	-	815661	84
F TKS 600 F	132/5,1	663/25,9	-	815685	99
E3 TKS 500 E3	132/5,1	563/22	-	329342	80
E3 TKS 600 E3	132/5,1	663/25,9	-	329366	92

for mounting overhead hangers to horizontal ceilings

Brackets have to be installed at least 50 mm above hangers end to allow an easy mounting of the protective end cap.

Always use TKSD 20 spacer to avoid deformation of TK type brackets when bolting to wall or ceiling.



Spacer

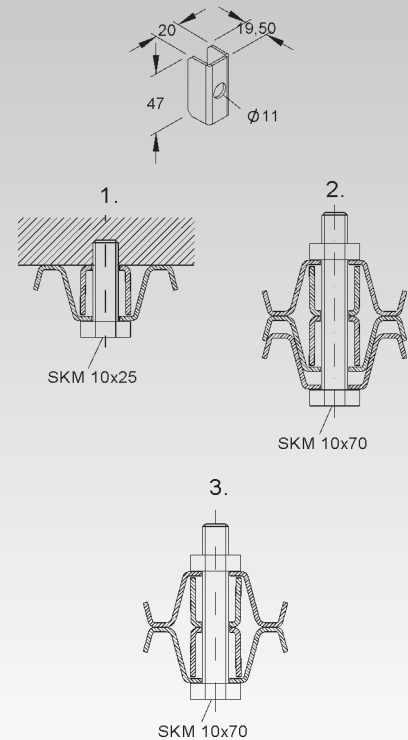
model no.	EAN code	Weight per 100 pc. kg
S TKS _D 20	185207	4
F TKS _D 20 F	185252	3
E3 TKS _D 20 E3	329649	3

for secure wall and/or ceiling mount of TKS type brackets/hangers

For: TKS ... and TKSU type hangers and brackets

1. wall and ceiling mount
2. for back to back mounting of hangers
3. for mounting TKSU brackets to wall or ceiling

Please order SKM... bolts separately.

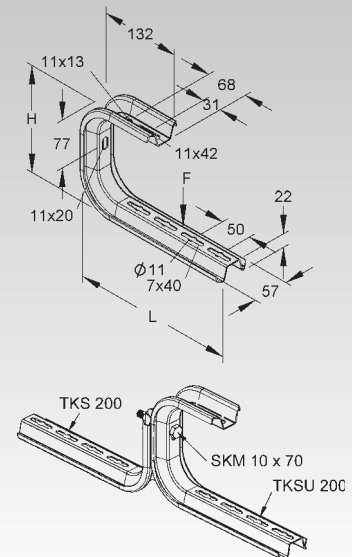


Wall / Ceiling Bracket

model no.	height H mm/Inch	length A mm/Inch	admissible load F at L/2 kN	acc. incl.	EAN code	Weight per 100 pc. kg
S TKS _U 100	172/6,7	161/6,3	0,95	2 FLM 6x12	184903	55
S TKS _U 200	172/6,7	261/10,2	0,7	2 FLM 6x12	185009	70
S TKS _U 300	172/6,7	361/14,1	0,5	2 FLM 6x12	185108	85

for wall or ceiling mount

Always use TKS_D 20 spacer to avoid deformation of TK type brackets when bolting to wall or ceiling.
The load rating shown is valid only for proper anchorage to the building structure.



Protective Cap

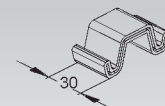
model no.	color	EAN code	Weight per 100 pc. kg
K10 TKS _K 30	yellow	348053	2

to be installed as end cap

To prevent accidents and injuries you must install protective end caps.

For: TKS ... and TKSU type hangers and brackets

Brackets have to be installed at least 50 mm above hangers end to allow an easy mounting of the protective end cap.



Bracket

model no.	height H mm/Inch	length A mm/Inch	admissible load F at L/2 kN	acc. incl.	EAN code	Weight per 100 pc. kg
S KTAM 100	60/2,3	110/4,3	1,2	2 FLM 6x12	186303	20
S KTAM 200	80/3,1	210/8,2	1,2	2 FLM 6x12	186402	30
S KTAM 300	82/3,2	320/12,5	1,5	2 FLM 6x12	186501	60
S KTAM 400	82/3,2	420/16,4	1,5	2 FLM 6x12	186600	80
S KTAM 500	115/4,5	510/19,9	1,2	2 FLM 6x12	186709	100
S KTAM 600	115/4,5	610/23,8	1,2	2 FLM 6x12	186808	140
E3 KTAM 100 E3	60/2,3	110/4,3	1,2	2 FLM 6x12 E3	840304	20
E3 KTAM 200 E3	80/3,1	210/8,2	1,2	2 FLM 6x12 E3	840328	30
E3 KTAM 300 E3	85/3,3	310/12,1	1,2	2 FLM 6x12 E3	840342	43
E5 KTAM 100 E5	60/2,3	110/4,3	1,2	2 FLM 6x12 E5	728305	20
E5 KTAM 200 E5	80/3,1	210/8,2	1,2	2 FLM 6x12 E5	728404	30
E5 KTAM 300 E5	85/3,3	310/12,1	1,2	2 FLM 6x12 E5	728503	42,8
E5 KTAM 400 E5	115/4,5	410/16	1,2	2 FLM 6x12 E5	728602	72,1

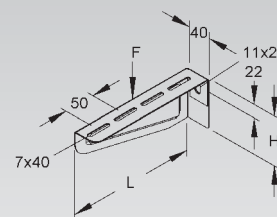
for mounting on walls or to overhead hangers

Hole pattern may vary based on width. You will find more detailed information in the installation instructions.

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



50



Bracket

medium duty

model no.	height H mm/Inch	width B mm/Inch	length A mm/Inch	admissible load F at L/2 kN	acc. incl.	EAN code	Weight per 100 pc. kg
F KTA 100	45/1,8	40/1,6	110/4,3	2,5	2 FLM 6x12	186907	20
F KTA 150	45/1,8	40/1,6	160/6,2	2,5	2 FLM 6x12	187003	25
F KTA 200	55/2,1	40/1,6	210/8,2	2,5	2 FLM 6x12	187102	30
F KTA 250	55/2,1	40/1,6	260/10,1	2,5	2 FLM 6x12	187201	40
F KTA 300	65/2,5	50/2	310/12,1	2,5	2 FLM 6x12	187300	60
F KTA 350	65/2,5	50/2	360/14	2,5	2 FLM 6x12	187409	70
F KTA 400	75/2,9	50/2	410/16	2,5	2 FLM 6x12	187508	80
F KTA 450	75/2,9	50/2	460/17,9	2,5	2 FLM 6x12	187607	90
F KTA 500	90/3,5	50/2	510/19,9	2,5	2 FLM 6x12	187706	120
F KTA 550	90/3,5	50/2	560/21,8	2,5	2 FLM 6x12	187805	125
F KTA 600	90/3,5	50/2	610/23,8	2,5	2 FLM 6x12	187904	135
E3 KTA 100 E3	45/1,8	40/1,6	110/4,3	2,5	2 FLM 6x12 E3	330003	20
E3 KTA 200 E3	55/2,1	40/1,6	210/8,2	2,5	2 FLM 6x12 E3	330102	30
E3 KTA 300 E3	65/2,5	50/2	310/12,1	2,5	2 FLM 6x12 E3	330201	60
E3 KTA 400 E3	90/3,5	50/2	410/16	2,5	2 FLM 6x12 E3	330300	80
E3 KTA 500 E3	110/4,3	50/2	510/19,9	2,5	2 FLM 6x12 E3	330409	120
E3 KTA 600 E3	110/4,3	50/2	610/23,8	2,5	2 FLM 6x12 E3	330508	135
E5 KTA 100 E5	45/1,8	40/1,6	110/4,3	2,5	2 FLM 6x12 E5	842605	20
E5 KTA 200 E5	55/2,1	40/1,6	210/8,2	2,5	2 FLM 6x12 E5	842629	30
E5 KTA 300 E5	65/2,5	50/2	310/12,1	2,5	2 FLM 6x12 E5	842643	60
E5 KTA 400 E5	90/3,5	50/2	410/16	2,5	2 FLM 6x12 E5	842667	80
E5 KTA 500 E5	110/4,3	50/2	510/19,9	2,5	2 FLM 6x12 E5	917402	120
E5 KTA 600 E5	110/4,3	50/2	610/23,8	2,5	2 FLM 6x12 E5	917426	135

for mounting on walls or to overhead hangers

slotted hole 7x15 mm for KTA 100-600 in stainless steel

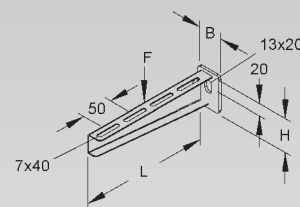
slot size 7x40 mm for KTA 100-600

slot size 7x15 mm for KTA 150, 250, 350, 450 and 550

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



59



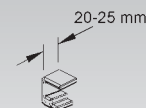
Protective Cap

model no.	color	EAN code	Weight per 100 pc. kg
K10 KA 100-600	yellow	347056	1,4

to be installed as end cap

To prevent accidents and injuries you must install protective end caps.

For: support brackets
KTA 100 - 600 F, E3 and E5
KTU 100 - 600 F, E3 and E5
KTT 100 - 600 F



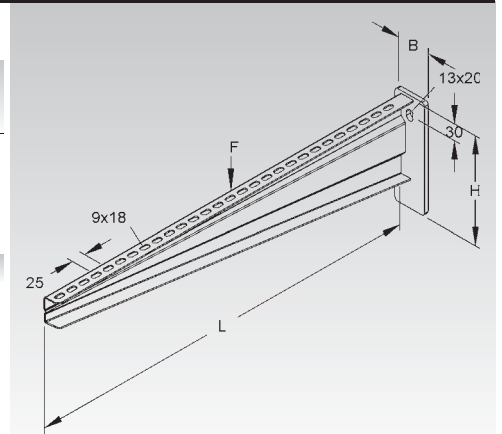
Bracket

medium duty

model no.	height H	width B	length A	admissible load F at L/2	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch	kN			
F KTA 700	195/7,6	60/2,3	730/28,5	3,5	2 FLM 6x12	188000	180
F KTA 800	195/7,6	60/2,3	830/32,4	3,5	2 FLM 6x12	188109	200
F KTA 900	195/7,6	60/2,3	930/36,3	3,5	2 FLM 6x12	188208	230
F KTA 1000	195/7,6	60/2,3	1030/40,2	3,5	2 FLM 6x12	188307	260

for mounting on walls or to overhead hangers

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



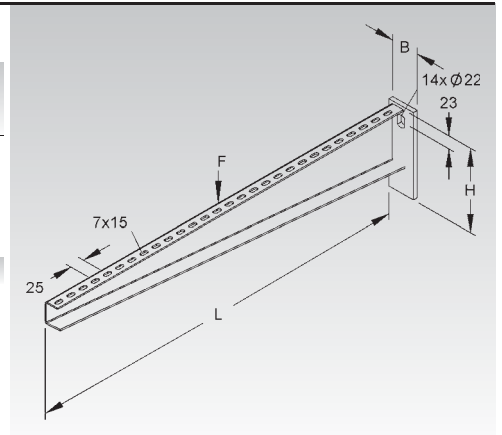
Bracket

medium duty

model no.	height H	width B	length A	admissible load F at L/2	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch	kN			
E3 KTA 700 E3	150/5,8	50/2	710/27,7	2	2 FLM 6x12 E3	770809	180
E3 KTA 800 E3	150/5,8	50/2	810/31,6	2	2 FLM 6x12 E3	770823	200
E3 KTA 900 E3	150/5,8	50/2	910/35,5	1,5	2 FLM 6x12 E3	770847	230
E3 KTA 1000 E3	150/5,8	50/2	1010/39,4	1,5	2 FLM 6x12 E3	770861	260

for mounting on walls or to overhead hangers

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



Wall Bracket

heavy-duty

model no.	height H	length A	admissible load F at L/2	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	kN		
F KTAS 100	110/4,3	130/5,1	5	917457	88
F KTAS 200	110/4,3	230/9	5	188406	106,1
F KTAS 300	110/4,3	330/12,9	5	188505	127,9
F KTAS 400	110/4,3	430/16,8	5	188604	152
F KTAS 500	150/5,8	530/20,7	5	188703	193,3
F KTAS 600	150/5,8	630/24,6	5	188802	221,9
F KTAS 700	150/5,8	730/28,5	5	188901	296,4
F KTAS 800	195/7,6	830/32,4	5	189007	356,2
F KTAS 900	195/7,6	930/36,3	5	189106	400,6
F KTAS 1000	195/7,6	1030/40,2	5	189205	447,8
E3 KTAS 200 E3	110/4,3	230/9	5	330515	99,3
E3 KTAS 300 E3	110/4,3	330/12,9	5	330539	119,7
E3 KTAS 400 E3	110/4,3	430/16,8	5	330553	142,3
E3 KTAS 500 E3	150/5,8	530/20,7	5	330577	181
E3 KTAS 600 E3	150/5,8	630/24,6	5	330591	207,8

for wall-mounting

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

Hardware has to be ordered separately for F finish:

for cable tray: FLM 6x12 F and UGM 6 E3

for cable ladder: KLTB 6 F and UGM 6 E3

for long span cable ladder: WSTB 2

for long span cable tray: FLM 8x16 F

Hardware has to be ordered separately for E3 finish:

for cable tray: FLM 6x12 E3, UGM 6 E3

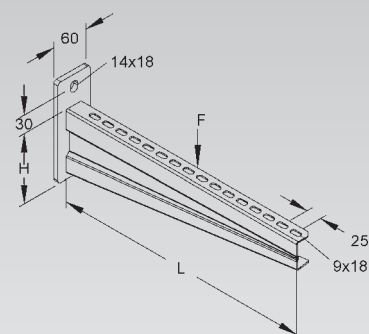
for cable ladder: KLTB 6 E3 and UGM 6 E3

for long span cable ladder: WSTB 2 E3

for long span cable tray: FLM 8x16 E3



52



Wall Bracket

extra heavy-duty version

model no.	height H	height E	length A	admissible load F at L/2	admissible load F2 at L/2	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch	kN			
F KTASS 200	83/3,2	115	230/9	10	10	189212	164
F KTASS 300	108/4,2	140	330/12,9	10	10	189229	230
F KTASS 400	133/5,2	165	430/16,8	10	10	189236	302
F KTASS 500	133/5,2	165	530/20,7	10	9,5	189243	360
F KTASS 600	158/6,2	190	630/24,6	10	9,5	189250	444
F KTASS 700	158/6,2	190	730/28,5	10	8,5	189267	570
F KTASS 800	183/7,1	215	830/32,4	10	8,5	189274	651
F KTASS 900	183/7,1	215	930/36,3	10	7,5	189281	758
F KTASS 1000	208/8,1	240	1030/40,2	10	7,5	189298	847

for wall-mounting

The permissible load F refers to the bracket only and does not reflect any limitations of the anchoring;

Permissible load F2 refers to concentrated loads and requires anchor type DAZ 16x25

Please recalculate the permissible load for non uniform load distribution using the formula shown.

F = support load

R = permissible anchor- or boltstrain

l = distance in-between load and wall/beam

E = distance in-between fixing hole and ending

The load rating shown is valid only for proper anchorage to the building structure. Please consult structural engineering for details and local regulations.

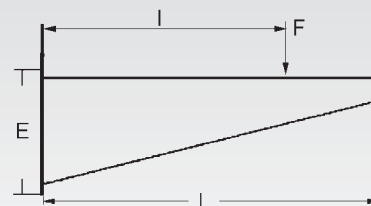
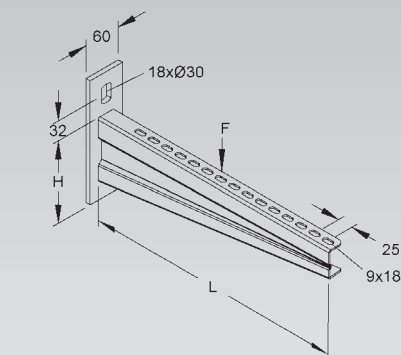
Hardware not included. Please order for hot dip galvanized brackets

with cable tray: FLM 6x12 F and UGM 6 E3

with cable ladder: KLTB 6 F and UGM 6 E3

with long span cable ladder: WSTB 2

with long span cable tray: FLM 8x16 F



$$F = \sqrt{\frac{R^2}{1 + (l/E)^2}}$$

Clamping Bracket

extra heavy-duty version

model no.	height H mm/Inch	length A mm/Inch	admissible load F at L/2 kN	admissible load F2 at L/2	EAN code	Weight per 100 pc. kg
F KTTSS 200	156/6,1	230/9	10	10	183616	307,7
F KTTSS 300	156/6,1	330/12,9	10	10	183623	333,3
F KTTSS 400	181/7,1	430/16,8	9,36	10	183630	371,1
F KTTSS 500	181/7,1	530/20,7	8,89	10	183647	402
F KTTSS 600	206/8	630/24,6	8,53	10	183654	478,4
F KTTSS 700	206/8	730/28,5	7,37	8	183661	521,9
F KTTSS 800	231/9	830/32,4	6,55	7	183678	578,1
F KTTSS 900	231/9	930/36,3	6,28	6,5	183685	628
F KTTSS 1000	256/10	1030/40,2	5,69	6	183692	690,6

for mounting on walls or clamping on bare steel beams

The clamping should be done symmetrical and the bolts should be fixed as close as possible to the flange. Permissible load F at L/2 (flange width ≤ 300 mm), permissible load F2 at L/2 (flange width ≤ 220 mm)

The load rating shown is valid only if the heavy duty clamp HSKS is used with M12 bolts (8.8 grade). The torque recommended is 85 Nm.

The permissible load shown is valid only if the finish of all components used (eg. beam clamps) is bare or galvanized steel.

Attention: There is a high risk that clamps could slide off painted surfaces. Please do not remove fire-protective painting from steel supports without prior approval in writing from structural engineering.

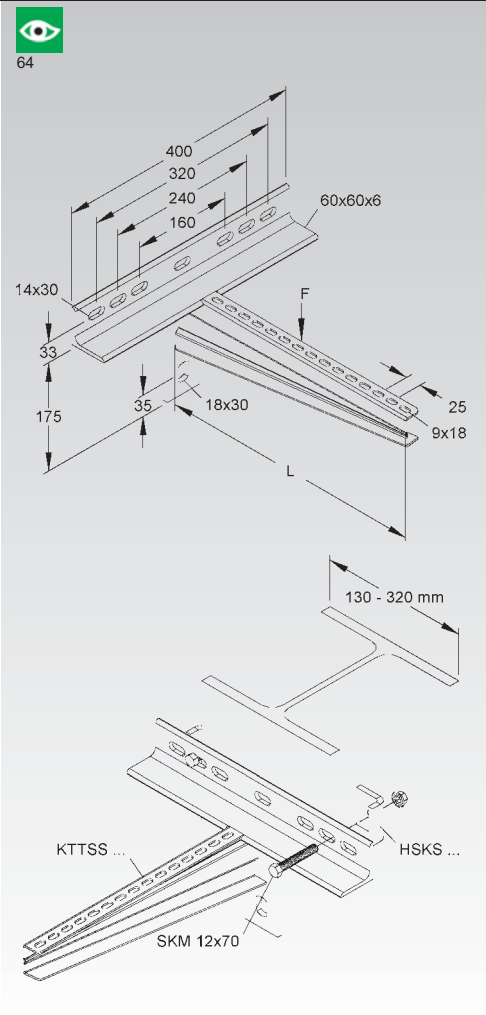
Please consult construction site management or civil engineering for statically permissible loads of the building structure.

Hardware has to be ordered separately:

2x HSKS..., 2x SKM 12x70

for long span cable ladder: WSTB 2

for long span cable tray: FLM 8x16 F



Overhead Hanger

U-Profile

	model no.	Total length L mm/Inch	EAN code	Weight per 100 pc. kg
F	HUF 50/200	201/7,8	168705	42
F	HUF 50/250	255/9,9	168804	49
F	HUF 50/300	301/11,7	168903	55
F	HUF 50/400	401/15,6	169009	67
F	HUF 50/500	501/19,5	169108	82
F	HUF 50/600	601/23,4	169207	95
F	HUF 50/700	705/27,5	169306	109
F	HUF 50/800	805/31,4	169405	122
F	HUF 50/900	905/35,3	169504	135
F	HUF 50/1000	1005/39,2	169603	149
F	HUF 50/1100	1105/43,1	169702	162
F	HUF 50/1200	1205/47	169801	175
E3	HUF 50/200 E3	204/8	327300	42
E3	HUF 50/300 E3	304/11,9	327409	55
E3	HUF 50/400 E3	404/15,8	327508	67
E3	HUF 50/500 E3	504/19,7	327607	82
E3	HUF 50/600 E3	604/23,6	327621	95
E3	HUF 50/700 E3	704/27,5	872404	108
E3	HUF 50/800 E3	804/31,4	872428	121
E3	HUF 50/900 E3	904/35,3	872442	134
E3	HUF 50/1000 E3	1004/39,2	872466	147
E5	HUF 50/200 E5	204/8	727506	42
E5	HUF 50/300 E5	304/11,9	727605	55
E5	HUF 50/400 E5	404/15,8	727704	67
E5	HUF 50/500 E5	504/19,7	727803	82

Thickness of headplate is included in total length indicated.

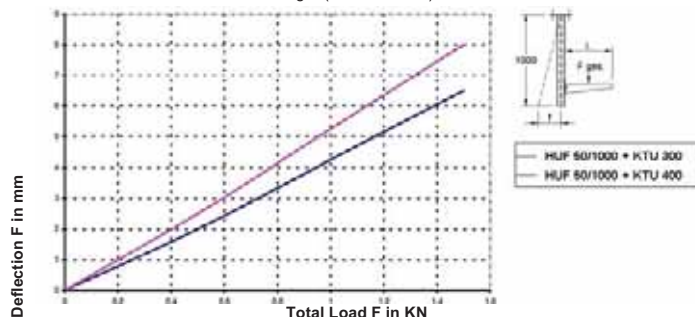
Please be aware of height restrictions for trays and ladders when brackets are mounted on overhead hangers of 200 mm length.

For: KTU..., KTUL..., KTUM... and KTDL... type brackets

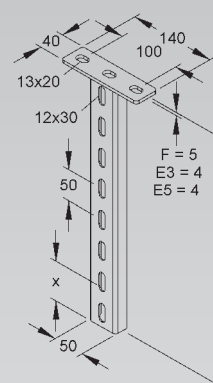
For static reasons brackets have to be installed at least 50 mm above hangers end.

The permissible load shown is valid only for proper anchorage to the building structure. Please consult structural engineering for details and local regulations.

Load Chart: Deflection of Overhead Hanger (onesided load)



There is no noticeable deflection of the hanger for balanced (twosided) loading.



$$I_x = 6,66 \text{ cm}^4 \quad I_y = 0,74 \text{ cm}^4 \quad W_x = 2,66 \text{ cm}^3 \quad W_y = 0,48 \text{ cm}^3$$

Protective Cap

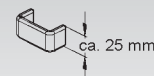
	model no.	color	EAN code	Weight per 100 pc. kg
K10	K 50	yellow	347605	2,5

to be installed as end cap

To prevent accidents and injuries you must install protective end caps.

For: U 50/..., HUF 50/...

Brackets have to be installed at least 50 mm above hangers end to allow an easy mounting of the protective end cap.

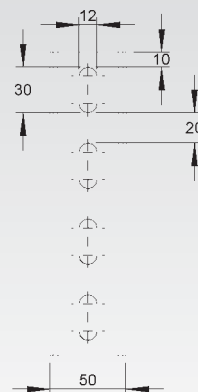
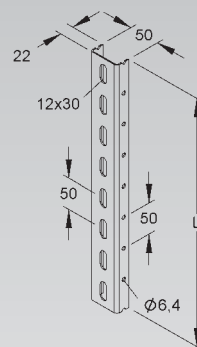


Profile U 50

model no.	length A	EAN code	Weight per 100 pc. kg
	mm/Inch		
S U 50/200	200/7,8	190805	26
S U 50/300	300/11,7	190904	39
S U 50/400	400/15,6	191000	52
S U 50/500	500/19,5	191109	65
S U 50/600	600/23,4	191208	78
S U 50/700	700/27,3	191307	91
S U 50/800	800/31,2	191406	104
S U 50/900	900/35,1	191505	117
S U 50/1000	1000/39	191604	130
S U 50/1500	1500/58,5	191703	195
S U 50/2000	2000/78	191802	130
S U 50/3000	3000/117	190607	130
S U 50/6000	6000/234	190706	130
F U 50/200 F	200/7,8	872503	26
F U 50/300 F	300/11,7	872534	39
F U 50/400 F	400/15,6	872565	52
F U 50/500 F	500/19,5	872596	65
F U 50/600 F	600/23,4	872626	78
F U 50/700 F	700/27,3	872657	91
F U 50/800 F	800/31,2	872688	104
F U 50/900 F	900/35,1	872718	117
F U 50/1000 F	1000/39	872749	130
F U 50/3000 F	3000/117	190744	130
F U 50/6000 F	6000/234	190768	130
E3 U 50/3000 E3	3000/117	330805	130
E3 U 50/6000 E3	6000/234	330904	130
E5 U 50/3000 E5	3000/117	728701	130

for custom-built overhead hangers and for building support frames

no perforation in flange with stainless finish



$$I_x = 6,66 \text{ cm}^4$$

$$I_y = 0,74 \text{ cm}^4$$

$$W_x = 2,66 \text{ cm}^3$$

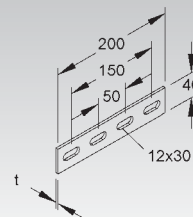
$$W_y = 0,48 \text{ cm}^3$$

Splice Plate

model no.	thick- ness t	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch			
F VB 50	4	4 FLM 10x25 F	199303	22
E3 VB 50 E3	4	4 FLM 10x25 E3	330966	22
E5 VB 50 E5	4	4 SKM 10x25 E5	729005	22

2 pieces needed per splice

For: profiles U 50/..., U 5050/... and overhead hanger HU 5050/...

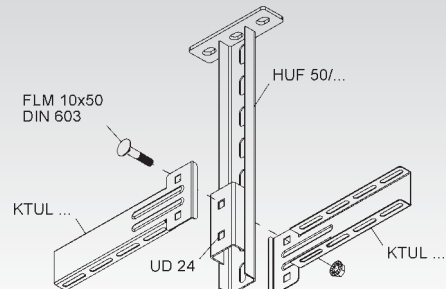
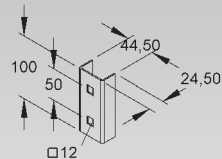


Spacer

model no.	acc. incl.	EAN code	Weight per 100 pc. kg
S UD 24	1 FLM 10x50	171033	17
E3 UD 24 E3	1 FLM 10x50 E3	327652	17

to attach brackets on both sides at the same height

For: KTUL... and KTUM... brackets



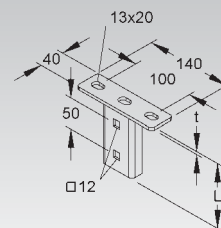
Head Plate

model no.	Total length L mm/Inch	thickness of the head plate t mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
F KU 50	105/4,1	5	2 FLM 10x25 F	191901	40
E3 KU 50 E3	104/4,1	4	2 FLM 10x25 E3	330607	40
E5 KU 50 E5	104/4,1	4	2 SKM 10x25 E5	728800	40

for mounting on horizontal ceilings

Thickness of headplate is included in total length indicated.

For: U 50/... Profile



Head Plate

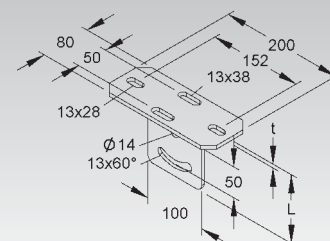
vertical, adjustable from -30° to +30°

model no.	Total length L mm/Inch	thickness of the head plate t mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
F KUGV 50	111/4,3	6	2 FLM 10x25 F	192106	90
E3 KUGV 50 E3	111/4,3	6	2 FLM 10x25 E3	770908	90

for mounting on inclined ceilings

Thickness of headplate is included in total length indicated.

For: U 50/... Profile



Clamping Head Plate

adjustable from -30° to +30°

model no.	slot width mm/Inch	Total length L mm/Inch	thickness of the head plate t mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
F KUGK 50	18	113/4,4	8	2 FLM 10x25 F	195404	230
E3 KUGK 50 E3	18	113/4,4	8	2 FLM 10x25 E3	770984	230

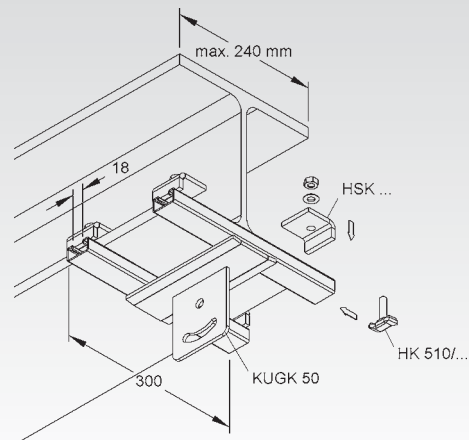
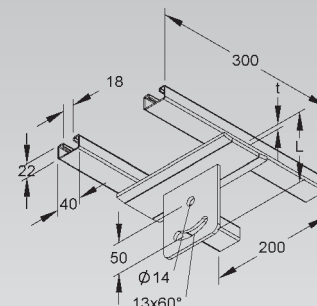
for clamping U-profile to support beams (max. width 240 mm), horizontally adjustable

Thickness of headplate is included in total length indicated.

For: U 50/... Profile

Installation mode: crosswise to the support beam

Hardware not included. Please order beam clamps and bolts separately.



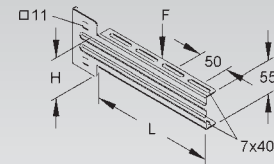
Bracket for U 50 Profile and HUF Hangers

model no.	height H	length A	admissible load F at L/2	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	kN			
S KTUM 100	73/2,8	105/4,1	1,2	FLM:2 6x12, 1 10x25 F	170425	24
S KTUM 150	73/2,8	155/6	1,2	FLM:2 6x12, 1 10x25 F	170432	29
S KTUM 200	73/2,8	205/8	1,2	FLM:2 6x12, 1 10x25 F	170449	33
S KTUM 250	73/2,8	255/9,9	1,2	FLM:2 6x12, 1 10x25 F	170456	43
S KTUM 300	73/2,8	305/11,9	1,2	FLM:2 6x12, 1 10x25 F	170463	47
S KTUM 400	83/3,2	405/15,8	1,2	FLM:2 6x12, 1 10x25 F	170487	78
E3 KTUM 100 E3	73/2,8	105/4,1	1,2	FLM: 2 6x12 E3, 1 10x25 E3	329021	20
E3 KTUM 200 E3	73/2,8	205/8	1,2	FLM: 2 6x12 E3, 1 10x25 E3	329045	30
E3 KTUM 300 E3	83/3,2	305/11,9	1,2	FLM: 2 6x12 E3, 1 10x25 E3	329069	43
E3 KTUM 400 E3	83/3,2	405/15,8	1,2	FLM: 2 6x12 E3, 1 10x25 E3	329083	75
E5 KTUM 100 E5	73/2,8	105/4,1	1,2	FLM:2 6x12 E5, 1 10x25 E5	728220	20
E5 KTUM 200 E5	73/2,8	205/8	1,2	FLM:2 6x12 E5, 1 10x25 E5	728244	30
E5 KTUM 300 E5	83/3,2	305/11,9	1,2	FLM:2 6x12 E5, 1 10x25 E5	728268	43
E5 KTUM 400 E5	83/3,2	405/15,8	1,2	FLM:2 6x12 E5, 1 10x25 E5	728282	75

For: HUF 50/..., HDUF 50/...

H2 is 55 mm for the KTUM 400 bracket.

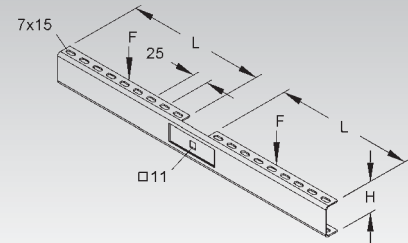
The load rating shown is valid only for proper anchorage to the building structure.



Double-sided Bracket

model no.	height H	length A	admissible load F at L/2	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	kN			
S KTDL 100	50/2	125/4,9	0,6	FLM:4 6x12, 1 10x25 F	170500	18
S KTDL 150	50/2	175/6,8	0,6	FLM:4 6x12, 1 10x25 F	170609	30
S KTDL 200	50/2	225/8,8	0,6	FLM:4 6x12, 1 10x25 F	170708	44
S KTDL 250	50/2	275/10,7	0,6	FLM:4 6x12, 1 10x25 F	170807	58
S KTDL 300	50/2	325/12,7	0,6	FLM:4 6x12, 1 10x25 F	170906	71
S KTDL 400	50/2	425/16,6	0,6	FLM:4 6x12, 1 10x25 F	171002	85

For: HUF 50/....



Overhead Hanger

U-Profile

	model no.	Total length L mm/Inch	EAN code	Weight per 100 pc. kg
F	HU 5050/200	205/8	858705	90
F	HU 5050/250	255/9,9	858729	103
F	HU 5050/300	305/11,9	858743	115
F	HU 5050/400	405/15,8	858767	138
F	HU 5050/500	505/19,7	858781	160
F	HU 5050/600	605/23,6	858804	186
F	HU 5050/700	705/27,5	858828	210
F	HU 5050/800	805/31,4	858842	233
F	HU 5050/900	905/35,3	858866	256
F	HU 5050/1000	1005/39,2	858880	280
F	HU 5050/1100	1105/43,1	858903	304
F	HU 5050/1200	1205/47	858927	328
F	HU 5050/1500	1505/58,7	858941	400
F	HU 5050/2000	2005/78,2	858965	517

Thickness of headplate is included in total length indicated.

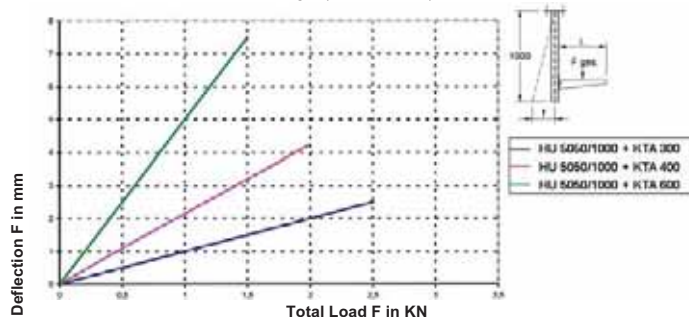
Please be aware of height restrictions for trays and ladders when brackets are mounted on overhead hangers of 200 mm length.

For: KTAL..., KTAM..., and KTA... brackets

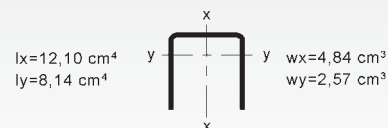
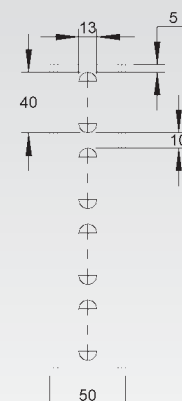
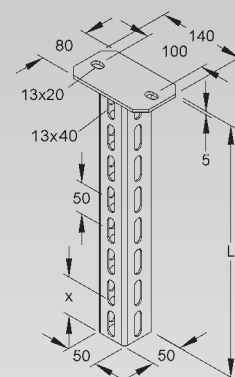
Use appropriate HDS... spacer for mounting brackets on overhead hanger. For static reasons brackets have to be installed at least 50 mm above hangers end. This will also guarantee an easy mounting of the protective end cap.

The permissible load shown is valid only for proper anchorage to the building structure. Please consult structural engineering for details and local regulations.

Load Chart: Deflection of Overhead Hanger (onesided load)



There is no noticeable deflection of the hanger for balanced (twosided) loading.



Protective Cap

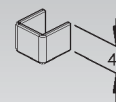
	model no.	color	EAN code	Weight per 100 pc. kg
K10	K 5050	yellow	347025	3

to be installed as end cap

To prevent accidents and injuries you must install protective end caps.

For: profile U 5050/... and overhead hanger HU 5050/..

Brackets have to be installed at least 50 mm above hangers end to allow an easy mounting of the protective end cap.

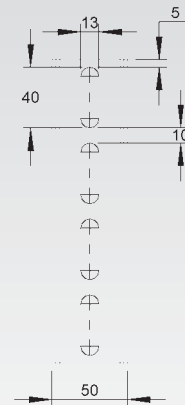
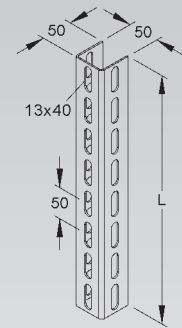


Profile U 5050

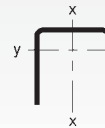
model no.	length A	EAN code	Weight per 100 pc. kg
	mm/Inch		
F U 5050/300 F	300/11,7	918560	72
F U 5050/400 F	400/15,6	918584	96
F U 5050/500 F	500/19,5	918607	120
F U 5050/600 F	600/23,4	918621	144
F U 5050/700 F	700/27,3	918645	168
F U 5050/800 F	800/31,2	918669	192
F U 5050/900 F	900/35,1	918683	216
F U 5050/1000 F	1000/39	918706	240
F U 5050/1100 F	1100/42,9	918720	263
F U 5050/1200 F	1200/46,8	918744	287
F U 5050/1500 F	1500/58,5	918768	359
F U 5050/2000 F	2000/78	918782	220,8
F U 5050/3000 F	3000/117	859306	220,8
F U 5050/4500 F	4500/175,5	859313	1080
F U 5050/6000 F	6000/234	859320	220,8

for custom-built overhead hangers and for building support frames

50 mm center distance for punch holes 13x40 mm on all 3 sides of the rail



$$\begin{aligned}
 I_x &= 12,10 \text{ cm}^4 & I_y &= 8,14 \text{ cm}^4 \\
 W_x &= 4,84 \text{ cm}^3 & W_y &= 2,57 \text{ cm}^3
 \end{aligned}$$

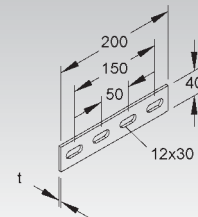


Splice Plate

model no.	thick- ness t	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch			
F VB 50	4	4 FLM 10x25 F	199303	22
E3 VB 50 E3	4	4 FLM 10x25 E3	330966	22
E5 VB 50 E5	4	4 SKM 10x25 E5	729005	22

2 pieces needed per splice

For: profiles U 50/..., U 5050/... and overhead hanger HU 5050/...



Spacer for Overhead Hanger

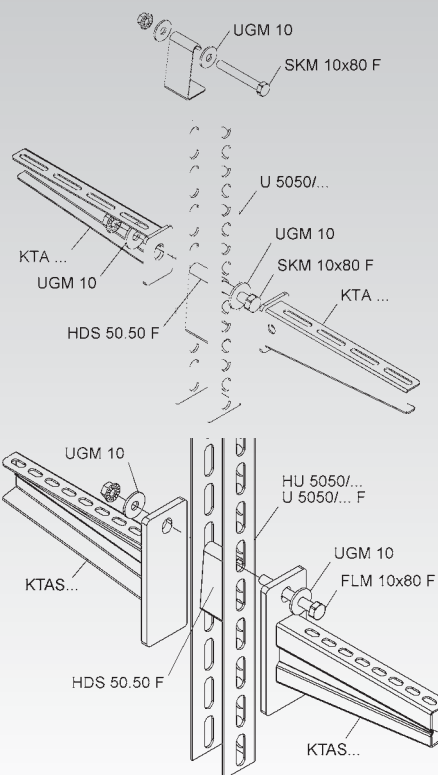
model no.	acc. incl.	EAN code	Weight per 100 pc. kg
F HDS 50.50 F	1 SKM 10x80 F, 2 UGM 10	931705	7,5

For: profile U 5050/... and overhead hanger HU 5050/..

Use appropriate HDS... spacer for mounting brackets on overhead hanger.



52



Head Plate

model no.	Total length L mm/Inch	thickness of the head plate t mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
F KU 5050	105/4,1	5	2 FLM 10x25 F	191956	81

for mounting on horizontal ceilings

Thickness of headplate is included in total length indicated.

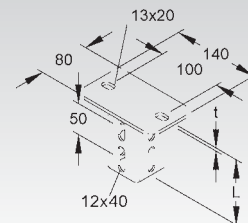
For: U 5050/... Profil

Slotted holes 12x40 mm on all three sides.

Installation mode: crosswise to the support beam



58



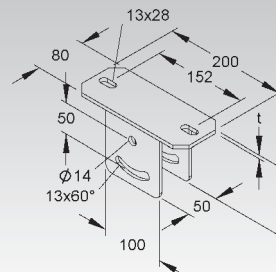
Head Plate

model no.	Total length L mm/Inch	thickness of the head plate t mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
F KUGV 5050	111/4,3	6	2 SKM 10x80 F	192151	181

for mounting on inclined ceilings

Thickness of headplate is included in total length indicated.

For: U 5050/...



Clamping Head Plate

model no.	slot width	Total length L	thickness of the head plate t	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch			
F KUDK 5050	18	107/4,2	7	2 FLM 10x25 F	194858	184

for clamping to horizontal support beams (max. width 240 mm)

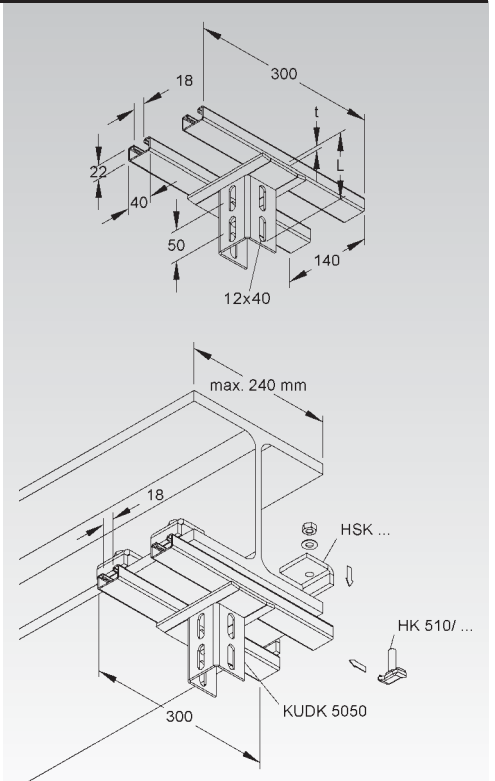
Thickness of headplate is included in total length indicated.

For: U 5050/... Profile

Slotted holes 12x40 mm on all three sides.

Installation mode: crosswise to the support beam

Hardware not included. Please order beam clamps and bolts separately.



Clamping Head Plate

adjustable from -30° to +30°

model no.	slot width	Total length L	thickness of the head plate t	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch			
F KUGPK 5050	18	112/4,4	7	2 SKM 10x80 F	195657	248

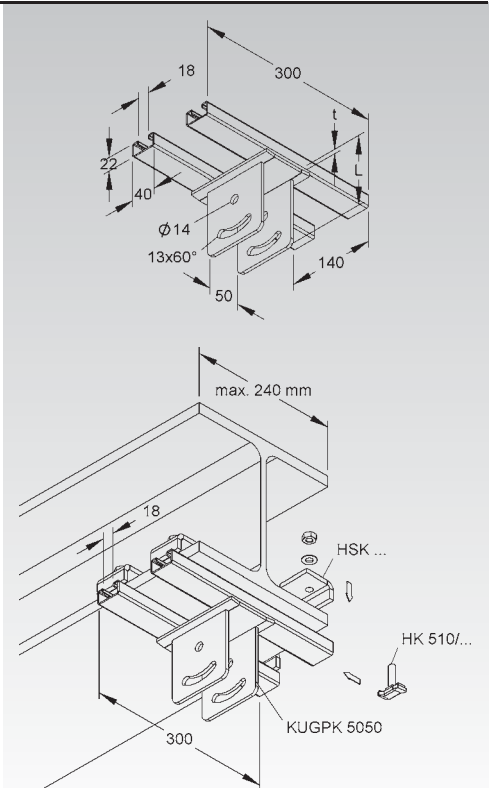
for clamping U-profile to support beams (max. width 240 mm), horizontally adjustable

Thickness of headplate is included in total length indicated.

For: U 5050/... Profile

Installation mode: crosswise to the support beam

Hardware not included. Please order beam clamps and bolts separately.



Overhead Hanger

U-Profile

	model no.	Total length L mm/Inch	EAN code	Weight per 100 pc. kg
F	HU 6040/200	206/8	891450	141
F	HU 6040/250	256/10	891467	157
F	HU 6040/300	306/11,9	891474	174
F	HU 6040/400	406/15,8	891481	208
F	HU 6040/500	506/19,7	891498	241
F	HU 6040/600	606/23,6	891504	275
F	HU 6040/700	706/27,5	891511	308
F	HU 6040/800	806/31,4	891528	342
F	HU 6040/900	906/35,3	891535	376
F	HU 6040/1000	1006/39,2	891542	409
F	HU 6040/1100	1106/43,1	891559	443
F	HU 6040/1200	1206/47	891566	476
F	HU 6040/1500	1506/58,7	891573	577
F	HU 6040/2000	2006/78,2	891580	745
E3	HU 6040/200 E3	206/8	891825	130
E3	HU 6040/250 E3	256/10	891832	145
E3	HU 6040/300 E3	306/11,9	891849	162
E3	HU 6040/400 E3	406/15,8	891856	190
E3	HU 6040/500 E3	506/19,7	891863	220
E3	HU 6040/600 E3	606/23,6	891870	254,9
E3	HU 6040/700 E3	706/27,5	891887	285,9
E3	HU 6040/800 E3	806/31,4	891894	316,9
E3	HU 6040/900 E3	906/35,3	891900	340
E3	HU 6040/1000E3	1006/39,2	891917	378,9
E3	HU 6040/1100E3	1106/43,1	891924	409,8
E3	HU 6040/1200E3	1206/47	891931	440,8
E3	HU 6040/1500E3	1506/58,7	891948	533,8
E3	HU 6040/2000E3	2006/78,2	891955	688,7

Thickness of headplate is included in total length indicated.

Please be aware of height restrictions for trays and ladders when brackets are mounted on overhead hangers of 200 mm length.

For: KTAL..., KTAM..., and KTA... brackets

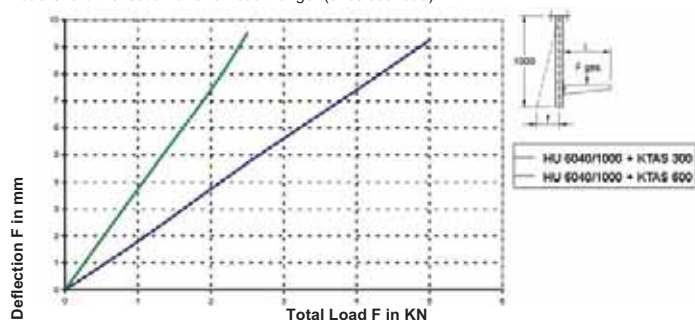
Use appropriate HDS... spacer to avoid deformation of hanger when mounting brackets.

For static reasons brackets have to be installed at least 50 mm above hangers end.

Slotted holes 13x40 mm on all three sides.

The permissible load shown is valid only for proper anchorage to the building structure. Please consult structural engineering for details and local regulations.

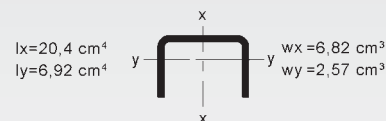
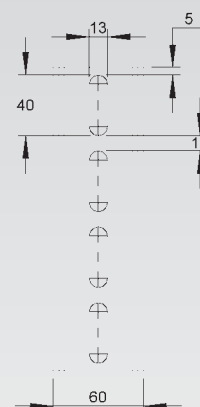
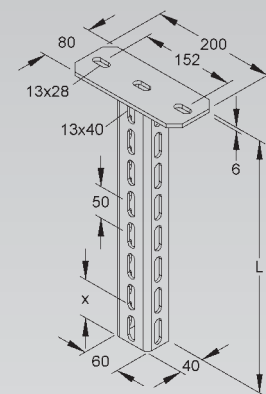
Load Chart: Deflection of Overhead Hanger (onesided load)



There is no noticeable deflection of the hanger for balanced (twosided) loading.



52



Protective Cap

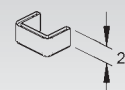
	model no.	color	EAN code	Weight per 100 pc. kg
K03	SKU 6040	yellow	912162	3

to be installed as end cap

To prevent accidents and injuries you must install protective end caps.

For: profile U 6040/... and overhead hanger HU 6040/...

Brackets have to be installed at least 50 mm above hangers end to allow an easy mounting of the protective end cap.



Profile U 6040

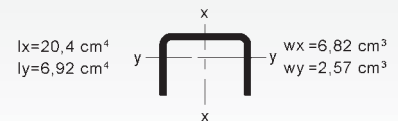
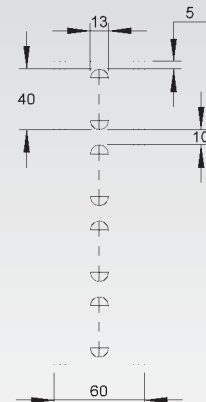
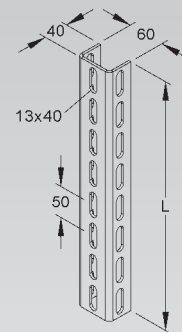
model no.	length A	EAN code	Weight per 100 pc. kg
	mm/Inch		
F U 6040/200 F	200/7,8	891603	67
F U 6040/250 F	250/9,8	891610	84
F U 6040/300 F	300/11,7	891627	101
F U 6040/400 F	400/15,6	891634	134
F U 6040/500 F	500/19,5	891641	168
F U 6040/600 F	600/23,4	891658	201
F U 6040/700 F	700/27,3	891665	235
F U 6040/800 F	800/31,2	891672	269
F U 6040/900 F	900/35,1	891689	302
F U 6040/1000 F	1000/39	891696	336
F U 6040/1100 F	1100/42,9	891702	369
F U 6040/1200 F	1200/46,8	891719	403
F U 6040/1500 F	1500/58,5	891726	504
F U 6040/2000 F	2000/78	891733	336
F U 6040/3000 F	3000/117	891740	336
F U 6040/6000 F	6000/234	891764	336
E3 U 6040/200 E3	200/7,8	891962	68
E3 U 6040/250 E3	250/9,8	891979	83
E3 U 6040/300 E3	300/11,7	891986	101
E3 U 6040/400 E3	400/15,6	891993	135
E3 U 6040/500 E3	500/19,5	892006	168
E3 U 6040/600 E3	600/23,4	892013	202
E3 U 6040/700 E3	700/27,3	892020	236
E3 U 6040/800 E3	800/31,2	892037	269
E3 U 6040/900 E3	900/35,1	892044	303
E3 U 6040/1000 E3	1000/39	892051	335
E3 U 6040/1100 E3	1100/42,9	892068	370
E3 U 6040/1200 E3	1200/46,8	892075	403
E3 U 6040/1500 E3	1500/58,5	892082	437
E3 U 6040/2000 E3	2000/78	892099	300
E3 U 6040/3000 E3	3000/117	892105	300
E3 U 6040/6000 E3	6000/234	892129	300

for custom-built overhead hangers and for building support frames

Slotted holes 13x40 mm on all three sides.



52

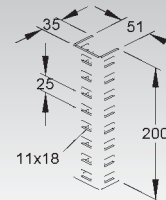


Straight Splice Plate

model no.	acc. incl.	EAN code	Weight per 100 pc. kg
F VB 6040	4 FLM 10x25 F	891788	45
E3 VB 6040 E3	4 FLM 10x25 E3	892143	45

For: profile U 6040/...

Slotted holes 11x18 mm on all three sides.



Spacer for Overhead Hanger

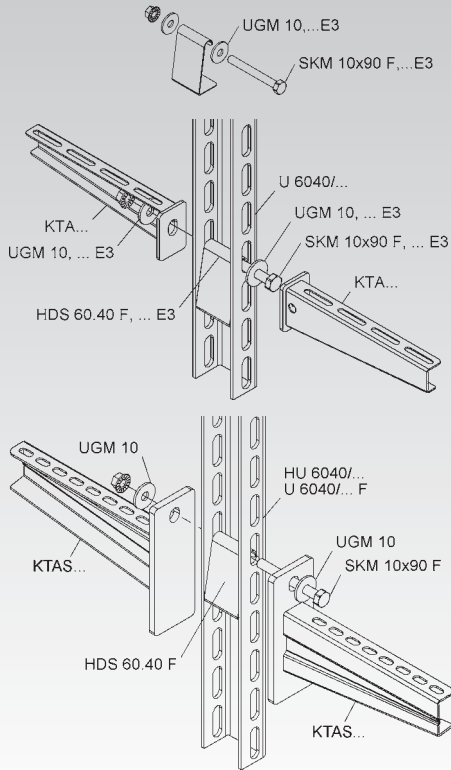
model no.	acc. incl.	EAN code	Weight per 100 pc. kg
F HDS 60.40 F	1 SKM 10x90 F, 2 UGM 10	931729	8,5

For: profile U 6040/... and overhead hanger HU 6040/...

Use appropriate HDS... spacer for mounting brackets on overhead hanger.



52



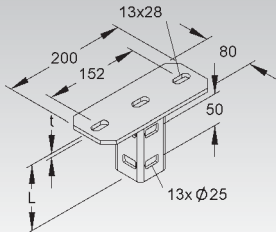
Head Plate

model no.	Total length L mm/Inch	thickness of the head plate t mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
F KU 6040	106/4,1	6	2 FLM 10x25 F	891771	110
E3 KU 6040 E3	106/4,1	6	2 FLM 10x25 E3	892136	110

for mounting on horizontal ceilings

Thickness of headplate is included in total length indicated.

For: U 6040/... Profile



Clamping Head Plate

model no.	slot width	Total length L	thickness of the head plate t	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch			
★ F KUDK 6040	18	107/4,2	7	2 FLM 10x25 F	945153	175

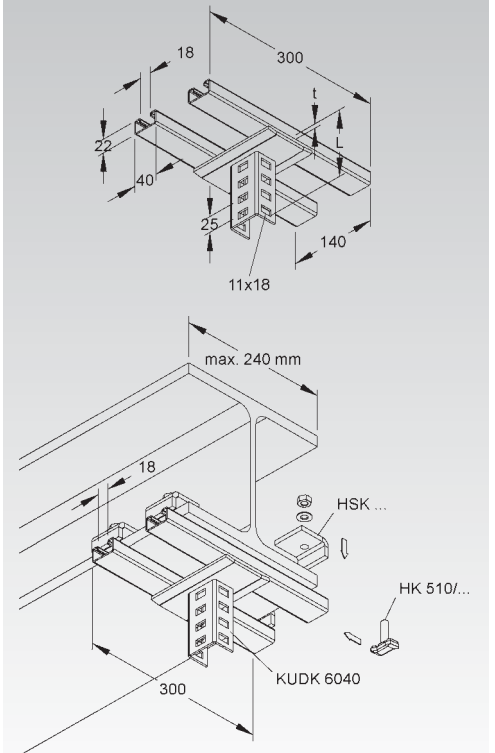
for clamping to horizontal support beams (max. width 240 mm)

For: U 6040/... Profile

Slotted holes 12x40 mm on all three sides.

Installation mode: crosswise to the support beam

Hardware not included. Please order beam clamps and bolts separately.



Clamping Head Plate

adjustable from -30° to +30°

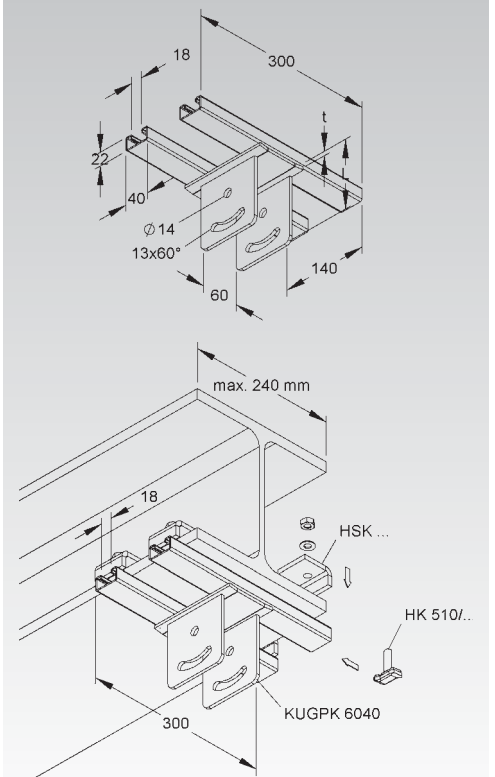
model no.	slot width	Total length L	thickness of the head plate t	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch			
★ F KUGPK 6040	18	112/4,4	7	2 SKM 10x90 F	945160	230

for clamping U-profile to support beams (max. width 240 mm), horizontally adjustable

For: U 6040/... Profile

Installation mode: crosswise to the support beam

Hardware not included. Please order beam clamps and bolts separately.



Bracket

model no.	height H mm/Inch	length A mm/Inch	admissible load F at L/2 kN	acc. incl.	EAN code	Weight per 100 pc. kg
S KTAM 100	60/2,3	110/4,3	1,2	2 FLM 6x12	186303	20
S KTAM 200	80/3,1	210/8,2	1,2	2 FLM 6x12	186402	30
S KTAM 300	82/3,2	320/12,5	1,5	2 FLM 6x12	186501	60
S KTAM 400	82/3,2	420/16,4	1,5	2 FLM 6x12	186600	80
S KTAM 500	115/4,5	510/19,9	1,2	2 FLM 6x12	186709	100
S KTAM 600	115/4,5	610/23,8	1,2	2 FLM 6x12	186808	140
E3 KTAM 100 E3	60/2,3	110/4,3	1,2	2 FLM 6x12 E3	840304	20
E3 KTAM 200 E3	80/3,1	210/8,2	1,2	2 FLM 6x12 E3	840328	30
E3 KTAM 300 E3	85/3,3	310/12,1	1,2	2 FLM 6x12 E3	840342	43
E5 KTAM 100 E5	60/2,3	110/4,3	1,2	2 FLM 6x12 E5	728305	20
E5 KTAM 200 E5	80/3,1	210/8,2	1,2	2 FLM 6x12 E5	728404	30
E5 KTAM 300 E5	85/3,3	310/12,1	1,2	2 FLM 6x12 E5	728503	42,8
E5 KTAM 400 E5	115/4,5	410/16	1,2	2 FLM 6x12 E5	728602	72,1

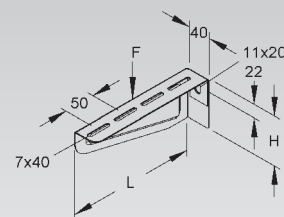
for mounting on walls or to overhead hangers

Hole pattern may vary based on width. You will find more detailed information in the installation instructions.

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



50



Bracket

medium duty

model no.	height H mm/Inch	width B mm/Inch	length A mm/Inch	admissible load F at L/2 kN	acc. incl.	EAN code	Weight per 100 pc. kg
F KTA 100	45/1,8	40/1,6	110/4,3	2,5	2 FLM 6x12	186907	20
F KTA 150	45/1,8	40/1,6	160/6,2	2,5	2 FLM 6x12	187003	25
F KTA 200	55/2,1	40/1,6	210/8,2	2,5	2 FLM 6x12	187102	30
F KTA 250	55/2,1	40/1,6	260/10,1	2,5	2 FLM 6x12	187201	40
F KTA 300	65/2,5	50/2	310/12,1	2,5	2 FLM 6x12	187300	60
F KTA 350	65/2,5	50/2	360/14	2,5	2 FLM 6x12	187409	70
F KTA 400	75/2,9	50/2	410/16	2,5	2 FLM 6x12	187508	80
F KTA 450	75/2,9	50/2	460/17,9	2,5	2 FLM 6x12	187607	90
F KTA 500	90/3,5	50/2	510/19,9	2,5	2 FLM 6x12	187706	120
F KTA 550	90/3,5	50/2	560/21,8	2,5	2 FLM 6x12	187805	125
F KTA 600	90/3,5	50/2	610/23,8	2,5	2 FLM 6x12	187904	135
E3 KTA 100 E3	45/1,8	40/1,6	110/4,3	2,5	2 FLM 6x12 E3	330003	20
E3 KTA 200 E3	55/2,1	40/1,6	210/8,2	2,5	2 FLM 6x12 E3	330102	30
E3 KTA 300 E3	65/2,5	50/2	310/12,1	2,5	2 FLM 6x12 E3	330201	60
E3 KTA 400 E3	90/3,5	50/2	410/16	2,5	2 FLM 6x12 E3	330300	80
E3 KTA 500 E3	110/4,3	50/2	510/19,9	2,5	2 FLM 6x12 E3	330409	120
E3 KTA 600 E3	110/4,3	50/2	610/23,8	2,5	2 FLM 6x12 E3	330508	135
E5 KTA 100 E5	45/1,8	40/1,6	110/4,3	2,5	2 FLM 6x12 E5	842605	20
E5 KTA 200 E5	55/2,1	40/1,6	210/8,2	2,5	2 FLM 6x12 E5	842629	30
E5 KTA 300 E5	65/2,5	50/2	310/12,1	2,5	2 FLM 6x12 E5	842643	60
E5 KTA 400 E5	90/3,5	50/2	410/16	2,5	2 FLM 6x12 E5	842667	80
E5 KTA 500 E5	110/4,3	50/2	510/19,9	2,5	2 FLM 6x12 E5	917402	120
E5 KTA 600 E5	110/4,3	50/2	610/23,8	2,5	2 FLM 6x12 E5	917426	135

for mounting on walls or to overhead hangers

slotted hole 7x15 mm for KTA 100-600 in stainless steel

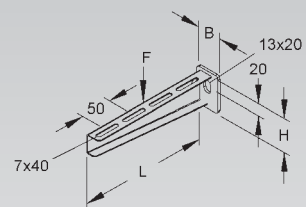
slot size 7x40 mm for KTA 100-600

slot size 7x15 mm for KTA 150, 250, 350, 450 and 550

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



59



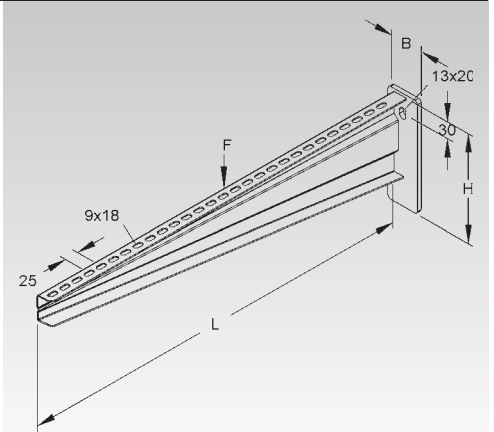
Bracket

medium duty

model no.	height H	width B	length A	admissible load F at L/2	acc. incl.	EAN code	Weight per 100 pc. kg
mm/Inch	mm/Inch	mm/Inch	mm/Inch	kN			
F KTA 700	195/7,6	60/2,3	730/28,5	3,5	2 FLM 6x12	188000	180
F KTA 800	195/7,6	60/2,3	830/32,4	3,5	2 FLM 6x12	188109	200
F KTA 900	195/7,6	60/2,3	930/36,3	3,5	2 FLM 6x12	188208	230
F KTA 1000	195/7,6	60/2,3	1030/40,2	3,5	2 FLM 6x12	188307	260
E3 KTA 700 E3	150/5,8	50/2	710/27,7	2	2 FLM 6x12 E3	770809	180
E3 KTA 800 E3	150/5,8	50/2	810/31,6	2	2 FLM 6x12 E3	770823	200
E3 KTA 900 E3	150/5,8	50/2	910/35,5	1,5	2 FLM 6x12 E3	770847	230
E3 KTA 1000 E3	150/5,8	50/2	1010/39,4	1,5	2 FLM 6x12 E3	770861	260

for mounting on walls or to overhead hangers

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



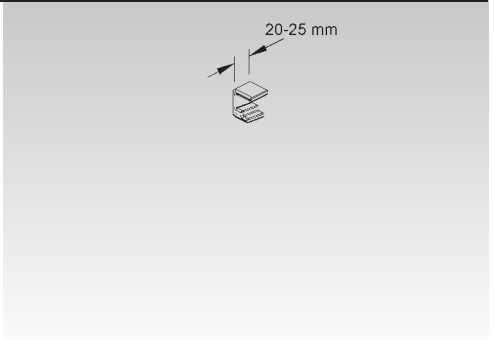
Protective Cap

model no.	color	EAN code	Weight per 100 pc. kg
K10 KA 100-600	yellow	347056	1,4

to be installed as end cap

To prevent accidents and injuries you must install protective end caps.

For: support brackets
KTA 100 - 600 F, E3 and E5
KTU 100 - 600 F, E3 and E5
KTT 100 - 600 F



Overhead Hanger

I 80 Profile

	model no.	Total length L mm/Inch	EAN code	Weight per 100 pc. kg
F	HI 80/200	206/8	178407	200
F	HI 80/300	306/11,9	178506	240
F	HI 80/400	406/15,8	178605	300
F	HI 80/500	506/19,7	178704	360
F	HI 80/600	606/23,6	178803	420
F	HI 80/700	706/27,5	178902	480
F	HI 80/800	806/31,4	179008	540
F	HI 80/900	906/35,3	179107	600
F	HI 80/1000	1006/39,2	179206	660
F	HI 80/1100	1106/43,1	179305	720
F	HI 80/1200	1206/47	179404	780
F	HI 80/1300	1306/50,9	179503	840
F	HI 80/1400	1406/54,8	179602	900
F	HI 80/1500	1506/58,7	179701	960
F	HI 80/1600	1606/62,6	179800	1020
F	HI 80/1700	1706/66,5	179909	1080
F	HI 80/1800	1806/70,4	180004	1140
F	HI 80/1900	1906/74,3	180103	1200
F	HI 80/2000	2006/78,2	180202	1260

Thickness of headplate is included in total length indicated.

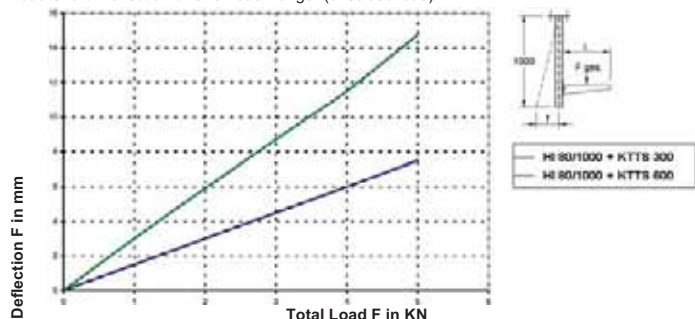
Please be aware of height restrictions for trays and ladders when brackets are mounted on overhead hangers of 200 mm length.

For: KTT..., KTTS... type brackets

For static reasons brackets have to be installed at least 50 mm above hangers end.

The permissible load shown is valid only for proper anchorage to the building structure. Please consult structural engineering for details and local regulations.

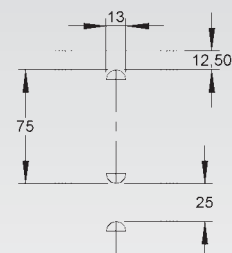
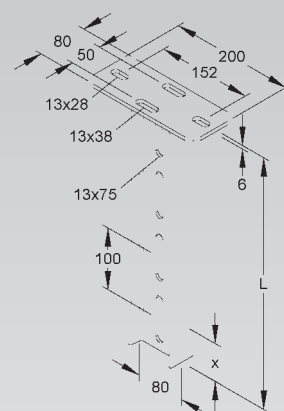
Load Chart: Deflection of Overhead Hanger (onesided load)



There is no noticeable deflection of the hanger for balanced (twosided) loading.



57



Protective Cap

	model no.	color	EAN code	Weight per 100 pc. kg
K03	SKI 80	yellow	912605	2

to be installed as end cap

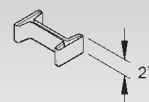
To prevent accidents and injuries you must install protective end caps.

For: profile I 80/... and overhead hanger HI 80/... and vertical cable ladder STIC... and STIW...

Brackets have to be installed at least 50 mm above hangers end to allow an easy mounting of the protective end cap.



57

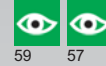


Profile I 80

according to DIN 1025 standard

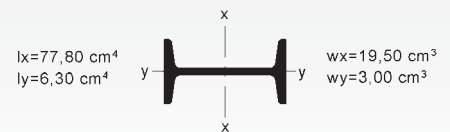
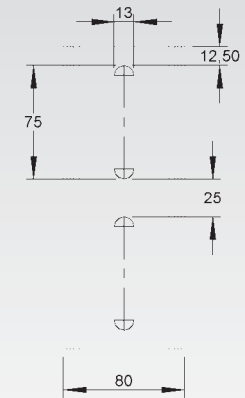
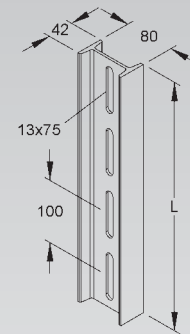
model no.	length A	EAN code	Weight per 100 pc. kg
F I 80/200	200/7,8	180301	120
F I 80/300	300/11,7	180400	180
F I 80/400	400/15,6	180509	240
F I 80/500	500/19,5	180608	300
F I 80/600	600/23,4	180707	360
F I 80/700	700/27,3	180806	420
F I 80/800	800/31,2	180905	480
F I 80/900	900/35,1	181001	540
F I 80/1000	1000/39	181100	600
F I 80/1500	1500/58,5	181209	900
F I 80/2000	2000/78	181308	1200
F I 80/3000	3000/117	181407	600
F I 80/6000	6000/234	181506	600

for custom-built overhead hangers, vertical cable ladders STIC/STIW and for building support frames



59

57



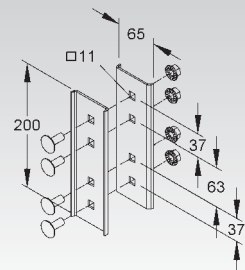
Straight Splice Plate

model no.	acc. incl.	EAN code	Weight per 100 pairs kg
F VBI 80	4 FLM 10x25 F	199501	152

For: profile I 80/... and overhead hanger HI 80/...



59



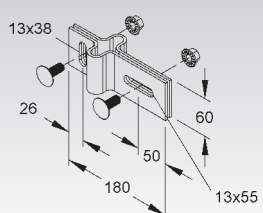
Tee Connector

model no.	acc. incl.	EAN code	Weight per 100 pair kg
F VBIQ 80	2 FLM 12x30 F	192809	96

For: profile I 80/... and overhead hanger HI 80/...



57



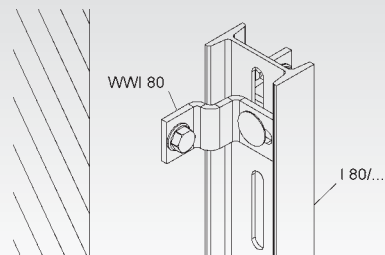
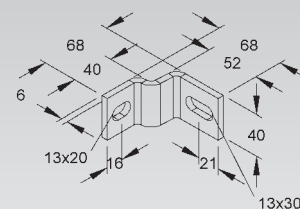
Two Hole Corner Angle for I 80

equal-sided

model no.	acc. incl.	EAN code	Weight per 100 pc. kg
F WVI 80	1 FLM 12x30 F	193004	26,7

for wall-mounting of I 80/... profiles

For: profile I 80/..., overhead hangers HI 80/... and vertical cable ladders of type STIC.... and STIW...



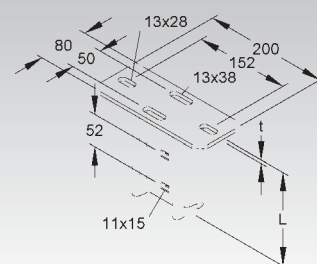
Head Plate

model no.	Total length L mm/Inch	thickness of the head plate t mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
F KI 80	151/5,9	6	2 FLM 10x25 F	192908	150

for mounting on horizontal ceilings

Thickness of headplate is included in total length indicated.

For: profile I 80/...



Clamping Head Plate

model no.	slot width mm/Inch	Total length L mm/Inch	thickness of the head plate t mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
F KIDK 80	22	153/6	8	2 FLM 10x25 F	195008	290

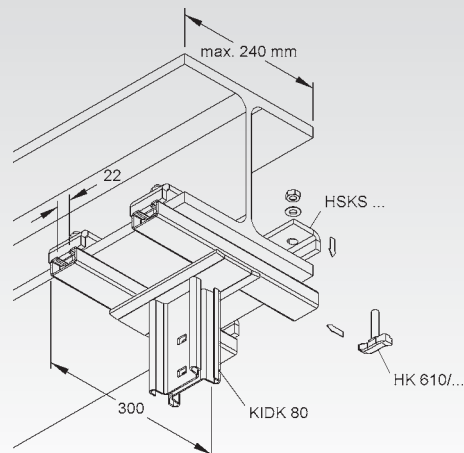
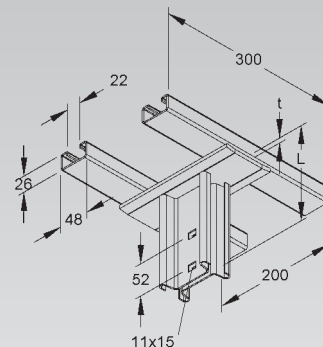
for clamping to horizontal support beams (max. width 240 mm)

Thickness of headplate is included in total length indicated.

For: profile I 80/...

Installation mode: crosswise to the support beam

Hardware not included. Please order beam clamps and bolts separately.



Bracket for I 80 Profile and HI 80 Hangers

medium-duty with preinstalled clamp

model no.	height H	length A	admissible load F at L/2	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	kN			
F KTT 100	55/2,1	110/4,3	2,5	2 FLM 6x12	181605	25
F KTT 200	55/2,1	210/8,2	2,5	2 FLM 6x12	181803	40
F KTT 300	75/2,9	310/12,1	2,5	2 FLM 6x12	182008	60
F KTT 400	95/3,7	410/16	2,5	2 FLM 6x12	182206	85
F KTT 150	55/2,1	160/6,2	2,5	2 FLM 6x12	181704	35
F KTT 250	75/2,9	260/10,1	2,5	2 FLM 6x12	181902	50
F KTT 350	75/2,9	360/14	2,5	2 FLM 6x12	182107	70
F KTT 450	95/3,7	460/17,9	2,5	2 FLM 6x12	182305	100
F KTT 550	95/3,7	560/21,8	2,5	2 FLM 6x12	182503	126
F KTT 500	95/3,7	510/19,9	2,5	2 FLM 6x12	182404	116
F KTT 600	95/3,7	610/23,8	2,5	2 FLM 6x12	182602	136

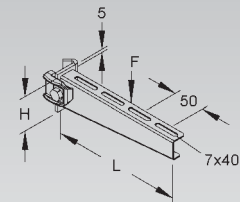
For: profile I 80/... as well as overhead hanger HI 80/...

slotted hole 7x40 mm for KTT 100-400

long hole size 7x40 mm for KTT 150, 250, 350, 450 and 550

slotted hole 7x38 mm for KTT 500 and 600

Hardware for mounting cable ladders has to be ordered separately.



Protective Cap

model no.	color	EAN code	Weight per 100 pc. kg
K10 KA 100-600	yellow	347056	1,4

to be installed as end cap

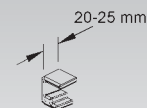
To prevent accidents and injuries you must install protective end caps.

For: support brackets

KTA 100 - 600 F, E3 and E5

KTU 100 - 600 F, E3 and E5

KTT 100 - 600 F



Bracket for I 80 Profile and HI 80 Hangers

heavy-duty with pre-installed clamp

model no.	height H	length A	admissible load F at L/2	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	kN		
F KTTS 200	110/4,3	230/9	5	182800	80,8
F KTTS 300	110/4,3	330/12,9	5	182909	101,2
F KTTS 400	110/4,3	430/16,8	5	183005	123,9
F KTTS 500	150/5,8	530/20,7	5	183104	158,9

For: profile I 80/... and overhead hanger HI 80/...

Hardware has to be ordered separately. For brackets

with cable tray: FLM 6x12 and UGM 6

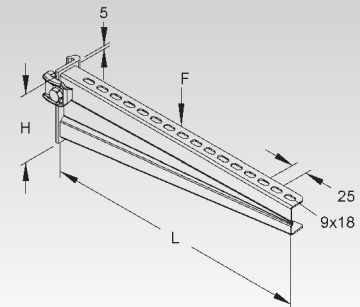
with cable ladder: KLTB 6 and UGM 6

with long span cable ladder: WSTB 2

with long span cable tray: FLM 8x16 F



57



Bracket for I 80 Profile and HI 80 Hangers

heavy-duty with two pre-installed clamps

model no.	height H	length A	admissible load F at L/2	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	kN		
F KTTS 600	150/5,8	630/24,6	5	183203	197,9
F KTTS 700	150/5,8	730/28,5	5	183302	267,7
F KTTS 800	190/7,4	830/32,4	5	183401	316,9
F KTTS 900	190/7,4	930/36,3	5	183500	358,5
F KTTS 1000	190/7,4	1030/40,2	5	183609	402,7

For: profile I 80/... and overhead hanger HI 80/...

Hardware has to be ordered separately. For brackets

with cable tray: FLM 6x12 and UGM 6

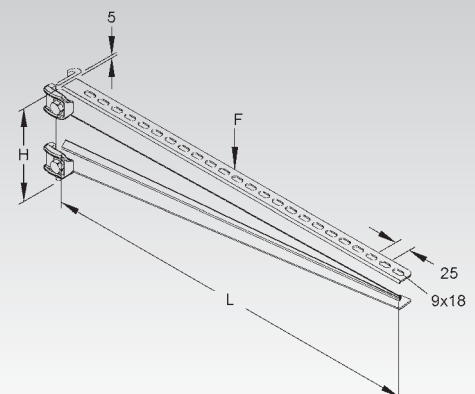
with cable ladder: KLTB 6 and UGM 6

with long span cable ladder: WSTB 2

with long span cable tray: FLM 8x16 F



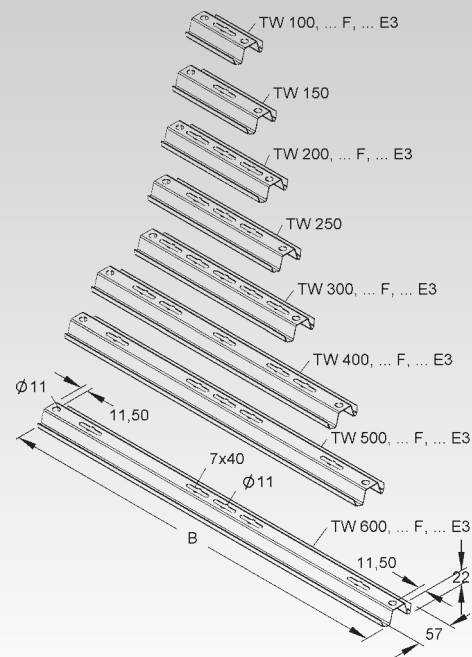
57



Center Hanger / Trapeze Support

model no.	width B	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch			
S TW 100	98/3,8	2 FLM 6x12	204205	10,5
S TW 150	148/5,8	2 FLM 6x12	204304	14,5
S TW 200	190/7,4	2 FLM 6x12	204403	18,5
S TW 250	240/9,4	2 FLM 6x12	204502	23
S TW 300	290/11,3	2 FLM 6x12	204601	27,5
S TW 400	450/17,6	2 FLM 6x12	204700	44,5
S TW 500	550/21,4	2 FLM 6x12	204809	39
S TW 600	650/25,4	2 FLM 6x12	204908	62
F TW 100 F	98/3,8	2 FLM 6x12 F	204915	4
F TW 200 F	190/7,4	2 FLM 6x12 F	204939	8
F TW 300 F	290/11,3	2 FLM 6x12 F	204953	19
F TW 400 F	450/17,6	2 FLM 6x12 F	204960	32
F TW 500 F	550/21,4	2 FLM 6x12 F	204977	39
F TW 600 F	650/25,4	2 FLM 6x12 F	204984	44
E3 TW 100 E3	98/3,8	2 FLM 6x12 E3	769209	4
E3 TW 200 E3	190/7,4	2 FLM 6x12 E3	769308	8
E3 TW 300 E3	290/11,3	2 FLM 6x12 E3	769407	19
E3 TW 400 E3	450/17,6	2 FLM 6x12 E3	769506	32
E3 TW 500 E3	550/21,4	2 FLM 6x12 E3	769605	39
E3 TW 600 E3	650/25,4	2 FLM 6x12 E3	769704	44

For: all perforated cable trays and wire mesh basket

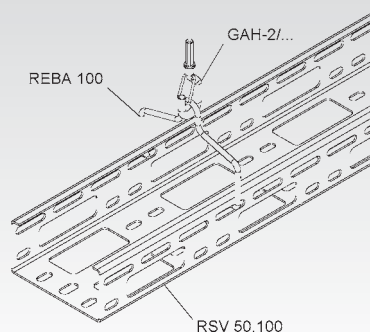
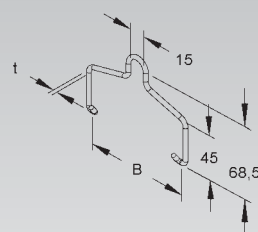


Snap-in Cable Tray Center Hanger

model no.	width B	thick- ness t	admissible load F	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	kN		
V REBA 50	50/2	4	0,15	197279	2
V REBA 60	60/2,3	4	0,15	197286	3
V REBA 100	100/3,9	4	0,15	197293	5
E3 REBA 50 E3	50/2	4	0,15	911950	2
E3 REBA 60 E3	60/2,3	4	0,15	911967	3
E3 REBA 100 E3	100/3,9	4	0,15	911974	5

For: cable trays RL 35..., RL 50..., RL 60..., RLC 60..., distribution cable trays RSV 50...

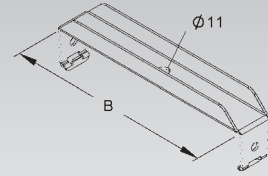
Centric hanging by means of gripple set hooks, ropes or coil chains



Snap-in Cable Tray Center Hanger

model no.	width B	EAN code	Weight per 100 pc. kg
	mm/Inch		
S RCB 50	50/2	197309	6
S RCB 70	70/2,7	197354	7
S RCB 75	75/2,9	197408	9
S RCB 100	100/3,9	197507	12
S RCB 120	120/4,7	197552	14
S RCB 150	150/5,8	197606	17
S RCB 200	200/7,8	197705	22
S RCB 250	250/9,8	197804	27
S RCB 300	300/11,7	197903	32

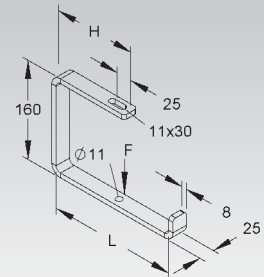
For: all perforated cable trays including distribution tray
For threaded rod M10 or 3/8".



Center Hanger

model no.	H	length L	admissible load F at L/2	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	kN		
F ZCB 70	70	80	0,6	843008	51,9
F ZCB 100	85	110	0,6	843022	59,5
F ZCB 120	95	130	0,6	843046	64,6
F ZCB 150	110	160	0,6	843060	72,1
F ZCB 200	135	210	0,6	843084	84,8
F ZCB 250	160	260	0,6	843107	97,5
F ZCB 300	185	310	0,6	843121	110,1
F ZCB 400	235	410	0,2	860401	163,1

use M10 threaded rod for hanging from the ceiling



Ceiling Suspension Bracket

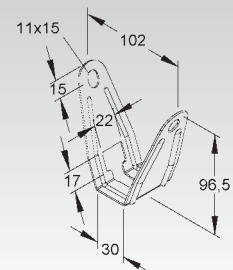
model no.	for threaded rod	EAN code	Weight per 100 pc. kg
S DBT 40	M 10	197200	9
F DBT 40 F	M 10	197255	9
E3 DBT 40 E3	M 10	769841	9

for mounting on corrugated sheet metal ceilings

For: Threaded Rod Suspension, size M 10



53

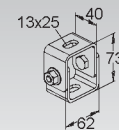


Hinged Ceiling Suspension Bracket

model no.	for threaded rod	EAN code	Weight per 100 pc. kg
F DBG 12	M 12	345502	43,3
E3 DBG 12 E3	M 12	769827	45

for mounting on inclined ceilings

For: Threaded Rod Suspension, size M 12

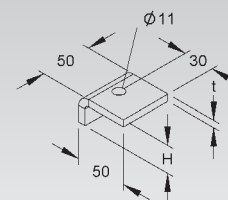


Beam Clamp

model no.	height H	thick- ness t	flange thickness t	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch		
F HSK 10	10/0,4	7	5 - 9	195800	15
F HSK 15	15/0,6	7	10 - 14	195909	18
F HSK 20	20/0,8	7	15 - 19	196104	20
F HSK 25	25/1	7	20 - 24	196203	24
F HSK 30	30/1,2	7	25 - 29	196005	30
F HSK 35	35/1,4	7	30 - 34	196302	36
F HSK 40	40/1,6	7	35 - 39	196401	44
E3 HSK 10 E3	10/0,4	6	5 - 9	768509	15
E3 HSK 15 E3	15/0,6	6	10 - 14	768608	18
E3 HSK 20 E3	20/0,8	6	15 - 19	768707	20
E3 HSK 25 E3	25/1	6	20 - 24	768806	24
E3 HSK 30 E3	30/1,2	6	25 - 29	768905	30
E3 HSK 35 E3	35/1,4	6	30 - 34	769001	36
E3 HSK 40 E3	40/1,6	6	35 - 39	769100	44



56



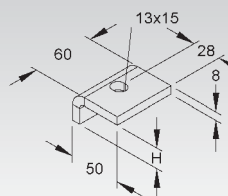
Beam Clamp

heavy-duty version

model no.	height H	flange thickness t	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch		
F HSKS 10	10/0,4	5 - 9	196425	21
F HSKS 15	15/0,6	10 - 14	196432	25
F HSKS 20	20/0,8	15 - 19	196449	27
F HSKS 25	25/1	20 - 24	196456	33
F HSKS 30	30/1,2	25 - 29	196463	41
F HSKS 35	35/1,4	30 - 34	196470	49
F HSKS 40	40/1,6	35 - 39	196487	60



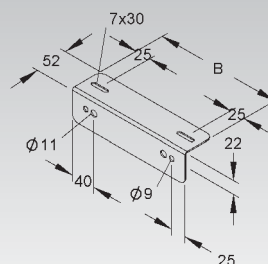
56



Box / Wall Connector

model no.	width B	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch			
S WA 100	110/4,3	2 FLM 6x12	189809	21
S WA 150	160/6,2	2 FLM 6x12	189908	32
S WA 200	210/8,2	2 FLM 6x12	190003	43
S WA 250	260/10,1	2 FLM 6x12	190102	54
S WA 300	310/12,1	2 FLM 6x12	190201	65
S WA 400	410/16	2 FLM 6x12	190300	87
S WA 500	510/19,9	2 FLM 6x12	190409	110
S WA 600	610/23,8	2 FLM 6x12	190508	130

for attaching the end of a straight section of cable tray to a box or wall



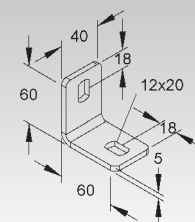
Two Hole Corner Angle

equal-sided

model no.	acc. incl.	EAN code	Weight per 100 pc. kg
F WWU 150	1 FLM 10x25 F	194407	20

for floor-, ceiling- or wall-mount

For: U-profile U 50/..., U 5050/ ..., U 6040/..., U 100/...



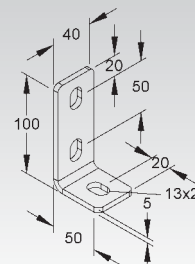
Three Hole Corner Angle

model no.	thick- ness t	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch			
F WWA 100	5	1 FLM 10x25 F	194759	30
E3 WWA 100 E3	4	1 FLM 10x25 E3	344345	19,4

for floor-, ceiling- or wall-mount



59



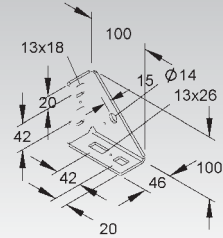
Shelf Bracket

model no.	EAN code	Weight per 100 pc. kg
F TRV 40	891795	40,5
E3 TRV 40 E3	892150	40,5

for floor-, ceiling- or wall-mount

For: U 5050/..., U 6040/... and Channels

Hardware is not included..



Adjustable Corner Bracket

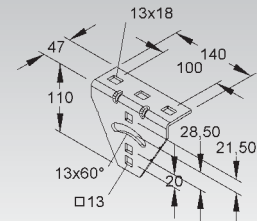
adjustable from -30° to +30°

model no.	acc. incl.	EAN code	Weight per 100 pc. kg
F AWG 110/140	2 FLM 10x25 F	891801	48
E3 AWG 110/140 E3	2 FLM 10x25 E3	892167	48

for mounting on inclined ceilings

For: U-profiles and channels

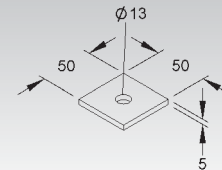
center distance of long holes 13x18 mm: 100 mm



Heavy Duty Square Washer / Anchor Plate

model no.	height H mm/Inch	width B mm/Inch	EAN code	Weight per 100 pc. kg
F VP 50.50	50/2	50/2	209200	10

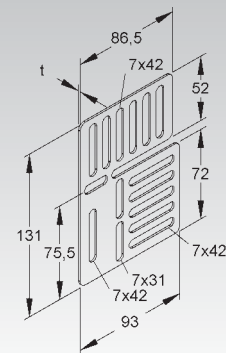
for fixing the bracket on gas concrete and/or construction materials with poor solidity.



Universal Mounting Bracket

model no.	thick-ness t mm/Inch	EAN code	Weight per 100 pc. kg
S RUW 60 S	1,5	947454	

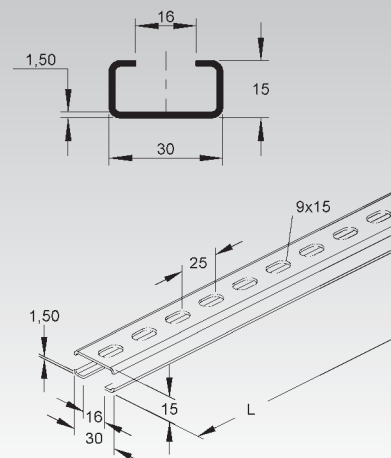
The universal mounting bracket can be used to form all kinds of special joints for cable tray and ladder as well as for box mounting or similar applications.



2970 Channel

slot width 16 mm, perforated, according to DIN EN 60715 standard

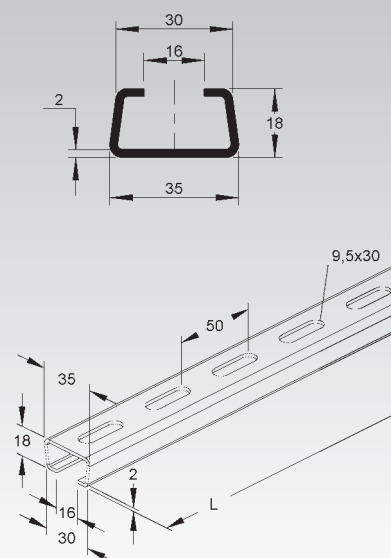
model no.	length A	perforation	distance between drill holes	EAN code	Weight per 100 m kg
	mm/Inch	mm/Inch	mm/Inch		
S 2970/2 SL	2000/78	9x15	25	030309	65
G 2970/2 GL	2000/78	9x15	25	030101	72



2980 Channel

slot width 16 mm, perforated

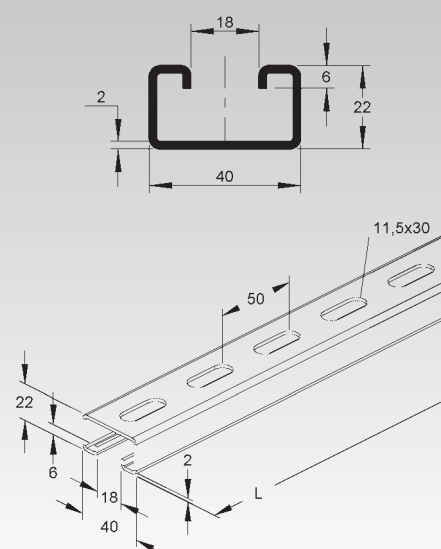
model no.	length A	perforation	distance between drill holes	EAN code	Weight per 100 m kg
	mm/Inch	mm/Inch	mm/Inch		
S 2980/2 SL	2000/78	9,5x30	50	042555	112
F 2980/2 FL	2000/78	9,5x30	50	042203	120



2986 Channel

slot width 18 mm, perforated, according to DIN EN 60715 standard

model no.	length A	perforation	distance between drill holes	EAN code	Weight per 100 m kg
	mm/Inch	mm/Inch	mm/Inch		
S 2986/3 SL	3000/117	11,5x30	50	193158	156
F 2986/3 FL	3000/117	11,5x30	50	193165	156
E3 2986/3 E3L	3000/117	11,5x30	50	342228	156
E5 2986/3 E5L	3000/117	11,5x30	50	728923	156



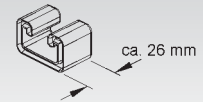
Protective Cap

model no.	color	EAN code	Weight per 100 pc. kg
K03 SKC 86	yellow	933105	0,7

to be installed as end cap

To prevent accidents and injuries you must install protective end caps.

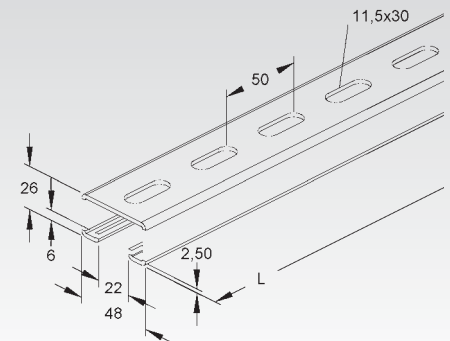
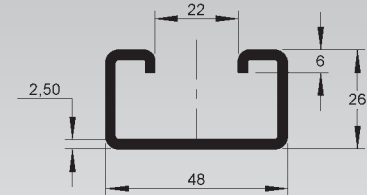
For: 2986 channel



2991 Channel

slot width 22 mm, perforated

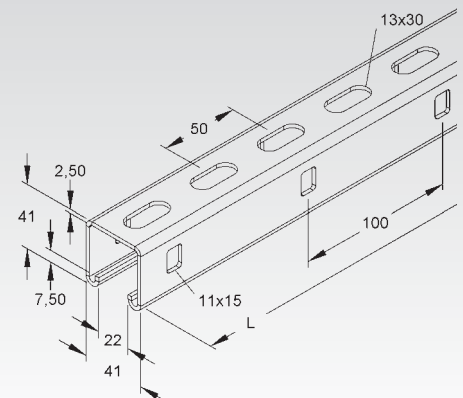
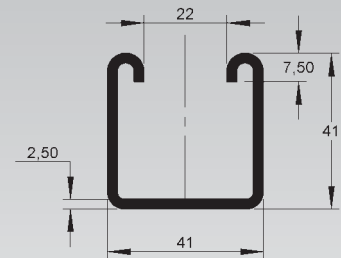
model no.	length A	perforation	distance between drill holes	EAN code	Weight per 100 m kg
	mm/Inch	mm/Inch	mm/Inch		
F 2991/3 FL	3000/117	11,5x30	50	193202	233



2996 Channel

slot width 22 mm, perforated

model no.	length A	EAN code	Weight per 100 kg
	mm/Inch		
F 2996/3 FL	3000/117	893935	259,25
F 2996/6 FL	6000/234	893966	259,25
E3 2996/3 E3L	3000/117	894116	242,7

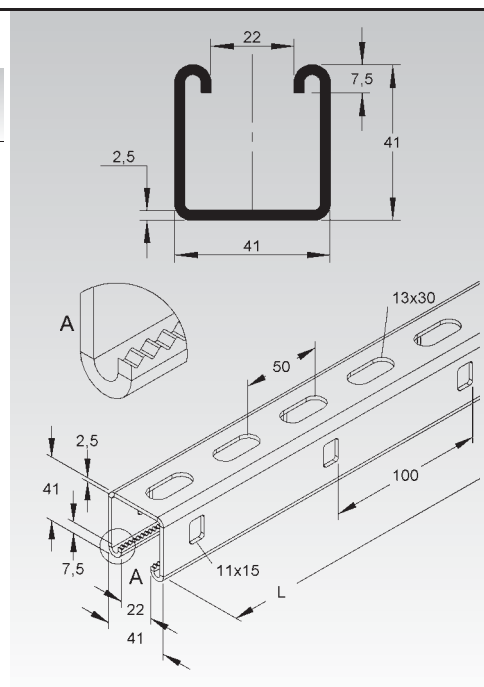


2996Z Toothed channel

slot width 22 mm, perforated

model no.	length A mm/Inch	EAN code	Weight per 100 kg
★ F 2996Z/3 FL	3000/117	960675	259,02
★ F 2996Z/6 FL	6000/234	960699	259,02

The combination of the toothed channel with the new GMZ channel nuts guarantees higher load ratings.



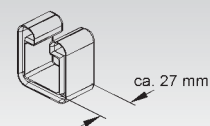
Protective Cap

model no.	color	EAN code	Weight per 100 pc. kg
K03 SKC 88/96	yellow	926800	1,3

to be installed as end cap

To prevent accidents and injuries you must install protective end caps.

For: C-rail, type 2988... and 2996...

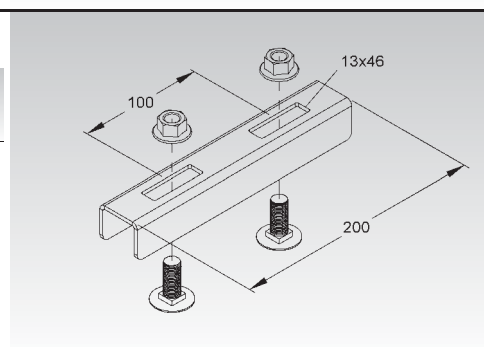


Straight Strut Joiner

for 2996 channel

model no.	acc. incl.	EAN code	Weight per 100 pc. kg
★ F SSV 4141 F	2 FLM 12x30 F	898541	38

For: 2996 channel (single channel strut)



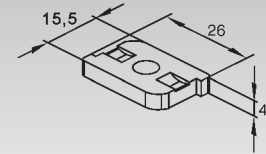
Sloped Sliding Nut

model no.	thread	EAN code	Weight per 100 pc. kg
G GSM 0404	M 4	119004	0,76
G GSM 0405	M 5	119103	0,76
G GSM 0406	M 6	119202	0,97
G GSM 0408	M 8	119301	0,92

For: 2970 and 2980 channel (16 mm slotwidth)

Insertable at any position of the channel.

Box quantity for GSM... 50 pieces.



Sloped Sliding Nut

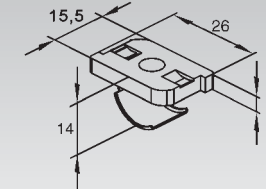
with clamping spring (phosphated)

model no.	thread	EAN code	Weight per 100 pc. kg
G GSF 0404	M 4	119400	0,86
G GSF 0405	M 5	119509	0,84
G GSF 0406	M 6	119608	1,04
G GSF 0408	M 8	119707	1,02

For: 2970 and 2980 channel (16 mm slotwidth)

Insertable at any position of the channel.

Box quantity for GSF... 25 pieces.



Channel Nut

model no.	thread	EAN code	Weight per 100 pc. kg
F GMZ M6 F	M6	947409	3,5
F GMZ M8 F	M8	947416	3,4
F GMZ M10 F	M10	947423	3,2

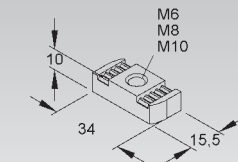
For: 2986 channel (18 mm slotwidth)

2991, 2996, 2996Z channel (22 mm slotwidth)

Insertable at any position of channels with 22 mm slotwidth.

But please note, that the GMZ 12 is only insertable at the end of channels with 18 mm slotwidth.

Box quantity for GMZ... 100 pieces.



Channel Nut

model no.	thread	EAN code	Weight per 100 pc. kg
F GMZ M12 F	M12	947430	3,5

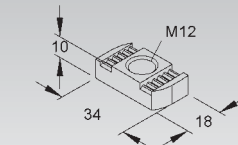
For: 2986 channel (18 mm slotwidth)

2991, 2996, 2996Z channel (22 mm slotwidth)

Insertable at any position of the channel.

The GMZ M12 F channel nut can be inserted only at the end of the 18 mm channel.

Box quantity for GMZ... 100 pieces.



Hammer Head Bolt, size M8

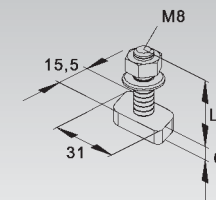
nut and washer included

model no.	length A	strength category	EAN code	Weight per 100 pc. kg
	mm/Inch			
V HM 408/20	20/0,8	4.6	122806	3
V HM 408/30	30/1,2	4.6	122905	3,5
V HM 408/40	40/1,6	4.6	123001	3,9
V HM 408/50	50/2	4.6	123100	4,3

For: 2970 and 2980 channel (16 mm slotwidth)

Insertable at any position of the channel.

Box quantity for HM 408/20 100 pieces and for HM 408/30 - HM 408/50 50 pieces.



Hook Head Bolt, size M10

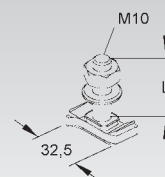
nut and washer included

model no.	length A	strength category	EAN code	Weight per 100 pc. kg
V HK 510/20	20/0,8	4.6	123704	3,8
V HK 510/30	30/1,2	4.6	123803	4,1
V HK 510/40	40/1,6	4.6	123902	4,9
V HK 510/50	50/2	4.6	124008	5,4
E5 HK 510/30 E5	30/1,2	1.4571	123827	4,1
E5 HK 510/50 E5	50/2	1.4571	124022	5,4

For: 2986 channel (18 mm slotwidth)

Insertable at any position of the channel.

Box quantity for HK 510/20 - HK 510/40 100 pieces and for HK 510/50 50 pieces.



Hook Head Bolt, size M12

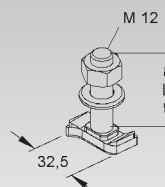
nut and washer included

model no.	length A	strength category	EAN code	Weight per 100 pc. kg
V HK 512/20	20/0,8	4.6	124107	5,3
V HK 512/30	30/1,2	4.6	124206	6
V HK 512/50	50/2	4.6	124305	6,7
F HK 512/30 F	30/1,2	4.6	124251	7,1
F HK 512/50 F	50/2	4.6	124350	8,4

For: 2986 channel (18 mm slotwidth)

Insertable at any position of the channel.

Box quantity for HK 512/20 - HK 512/30 100 pieces and for HK 512/50 50 pieces.



Hook Head Bolt, size M10

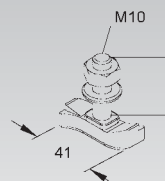
nut and washer included

model no.	length A	strength category	EAN code	Weight per 100 pc. kg
V HK 610/30	30/1,2	4.6	124602	5,5
V HK 610/40	40/1,6	4.6	124701	5,9
V HK 610/50	50/2	4.6	124800	6,2
V HK 610/80	80/3,1	4.6	945498	7,1
F HK 610/30 F	30/1,2	4.6	945177	5,5
F HK 610/50 F	50/2	4.6	945184	6,6
F HK 610/80 F	80/3,1	4.6	945481	7,6

For: 2991, 2996 and 2996Z channel (22 mm slotwidth)

Insertable at any position of the channel.

Box quantity for HK 610/30 - HK 610/40 100 pieces and for HK 610/50 - HK 610/80 50 pieces.



Hook Head Bolt, size M12

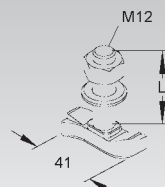
nut and washer included

model no.	length A	strength category	EAN code	Weight per 100 pc. kg
V HK 612/30	30/1,2	4.6	124909	6,7
V HK 612/50	50/2	4.6	125005	7,5
V HK 612/80	80/3,1	4.6	125050	12,4
F HK 612/40 F	40/1,6	4.6	124954	7,6

For: 2991, 2996 and 2996Z channel (22 mm slotwidth)

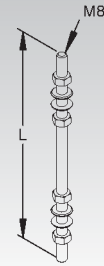
Insertable at any position of the channel.

Box quantity for HK 612/30 100 pieces and for HK 612/50 - HK 612/80 50 pieces.



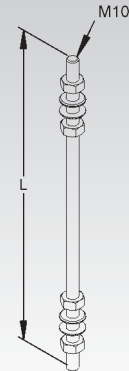
Threaded Rod, size M 8

model no.	thread	length A mm/Inch	strength category	acc. incl.	EAN code	Weight per 100 pc. kg
V M 8/100	M8	100/3,9	4.6	4 SMU 8	201907	5
V M 8/200	M8	200/7,8	4.6	4 SMU 8	202003	8
V M 8/500	M8	500/19,5	4.6	4 SMU 8	202102	18
V M 8/1000	M8	1000/39	4.6	4 SMU 8	203505	29,6



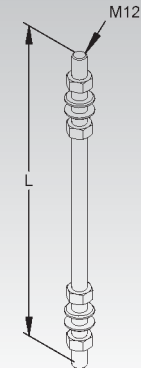
Threaded Rod, size M 10

model no.	thread	length A mm/Inch	strength category	acc. incl.	EAN code	Weight per 100 pc. kg
V M 10/90	M10	90/3,5	4.6	4 SMU 10	202201	5
V M 10/130	M10	130/5,1	4.6	4 SMU 10	202300	6
V M 10/200	M10	200/7,8	4.6	4 SMU 10	202409	15
V M 10/300	M10	300/11,7	4.6	4 SMU 10	202508	20
V M 10/400	M10	400/15,6	4.6	4 SMU 10	202607	19,2
V M 10/500	M10	500/19,5	4.6	4 SMU 10	202706	24,2
V M 10/600	M10	600/23,4	4.6	4 SMU 10	202805	29,2
V M 10/700	M10	700/27,3	4.6	4 SMU 10	202904	33,8
V M 10/800	M10	800/31,2	4.6	4 SMU 10	203000	38,4
V M 10/900	M10	900/35,1	4.6	4 SMU 10	203109	43,2
V M 10/1000	M10	1000/39	4.6	4 SMU 10	203208	47
V M 10/1500	M10	1500/58,5	4.6	4 SMU 10	203307	72,2
E3 M 10/1000 E3	M10	1000/39	1.4301	4 SMU 10 E3	769902	65



Threaded Rod, size M 12

model no.	thread	length A mm/Inch	strength category	acc. incl.	EAN code	Weight per 100 pc. kg
V M 12/200	M12	200/7,8	4.6	4 SMU 12	203512	24
V M 12/300	M12	300/11,7	4.6	4 SMU 12	203529	31
V M 12/400	M12	400/15,6	4.6	4 SMU 12	203536	38
V M 12/500	M12	500/19,5	4.6	4 SMU 12	203543	46
V M 12/600	M12	600/23,4	4.6	4 SMU 12	203550	53
V M 12/800	M12	800/31,2	4.6	4 SMU 12	203574	67
V M 12/1000	M12	1000/39	4.6	4 SMU 12	345809	75
E3 M 12/1000 E3	M12	1000/39	1.4301	4 SMU 12 E3	841608	75



Hexagonal Nut

washer (acc. to DIN EN ISO 7089 standard) included

model no.	thread	EAN code	Weight per 100 pc. kg
V SMU 8	M8	203604	0,1
V SMU 10	M10	203703	0,2
V SMU 12	M12	344406	2
E3 SMU 10 E3	M10	344260	2
E3 SMU 12 E3	M12	344284	3

Box quantity for SMU 8 - SMU 10 50 pieces and for SMU 12 40 pieces.



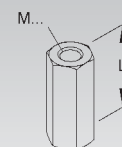
Rod Coupling

hexagonal

model no.	thread	length A mm/Inch	EAN code	Weight per 100 pc. kg
V VBSM 8	M8	40/1,6	345588	1,8
V VBSM 10	M10	40/1,6	345601	5
V VBSM 12	M12	40/1,6	345700	7

for coupling threaded rods

Box quantity for VBSM... 50 pieces.



Serrated Washer

	model no.	inner diameter mm/Inch	EAN code	Weight per 100 pc. kg
V	ZSM 4	4,3	208302	0,9
V	ZSM 5	5,3	208401	1,8
V	ZSM 6	6,4	208500	2,3
V	ZSM 8	8,4	208609	4
V	ZSM 10	10,5	208708	8
V	ZSM 12	12,5	208807	11

Box quantity for ZSM... 100 pieces.

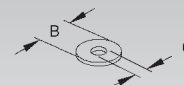


Large Diameter Washer

	model no.	Diameter of mounting hole mm/Inch	width B mm/Inch	EAN code	Weight per 100 pc. kg
V	UGM 6	6,4	18/0,7	208906	0,3
V	UGM 8	8,4	24/0,9	209002	0,7
V	UGM 10	10,5	30/1,2	209101	1,2
E3	UGM 6 E3	6,4	18/0,7	927258	0,3
E3	UGM 8 E3	8,4	24/0,9	931248	0,7
E3	UGM 10 E3	10,5	30/1,2	936854	1,22

for attaching cable ladders to brackets or cable trays on perforated C-rail

Box quantity for UGM... 100 pieces.



Hexagonal Bolt

nut and washer included

	model no.	thread	length A mm/Inch	strength category	EAN code	Weight per 100 pc. kg
V	SKM 8 X 16	M8	16/0,6	8.8	207107	1,6
V	SKM 10 X 25	M10	25/1	8.8	207305	3,6
V	SKM 10 X 40	M10	40/1,6	8.8	207404	4,5
V	SKM 10 X 50	M10	50/2	8.8	207503	5
V	SKM 10 X 70	M10	70/2,7	8.8	207541	5,5
V	SKM 12 X 70	M12	70/2,7	8.8	207565	6
F	SKM 10 X 80 F	M10	80/3,1	8.8	886203	6
F	SKM 10 X 90 F	M10	90/3,5	8.8	893485	6,5
E3	SKM 8 X 40 E3	M8	40/1,6	1.4301	343959	2
E3	SKM 10 X 40 E3	M10	40/1,6	1.4301	344048	4,5
E3	SKM 10 X 70 E3	M10	70/2,7	1.4301	344086	5,5
E5	SKM 8 X 16 E5	M8	16/0,6	1.4571	729203	1,6
E5	SKM 10 X 25 E5	M10	25/1	1.4571	729302	4

Property class is embossed to the head of the bolt.

Check tightening torque for all kinds of crimp connections with a torque wrench:

Check tightening torque for all kinds of crimp connections with a torque wrench:

SKM 8..., tightening torque of 25 Nm

SKM 10..., tightening torque of 50 Nm

SKM 12..., tightening torque of 85 Nm

SKM 16..., tightening torque of 210 Nm

Box quantity for SKM 8 x 16, SKM 10 x 25, SKM 10 x 40, SKM 10 x 50, SKM 10 x 70, SKM 10 x 80, SKM 10 x 90 50 pieces for SKM 8 x 40 20 pieces and for SKM 12 x 70 20 pieces.



Mushroom Head Bolt, similar to DIN 603 Standard

flange nut included

	model no.	thread	length A mm/Inch	strength category	EAN code	Weight per 100 pc. kg
V	FLM 6 X 12	M6	12/0,5	-	206209	0,8
F	FLM 6 X 12 F	M6	12/0,5	-	206407	0,8
F	FLM 6 X 16 F	M6	16/0,6	-	206506	0,9
F	FLM 8 X 13 F	M8	13/0,5	8.8	206605	2
F	FLM 8 X 16 F	M8	16/0,6	8.8	206704	2,2
F	FLM 8 X 25 F	M8	25/1	8.8	206803	2,8
F	FLM 10 X 25 F	M10	25/1	8.8	206902	4
F	FLM 12 X 30 F	M12	30/1,2	8.8	207008	8

Box quantity for FLM 6 x 12, FLM 8 x 13 F 10 pieces and for FLM 6 x 12 F, FLM 8 x 16 F, FLM 8 x 25 F, FLM 10 x 25 F, FLM 12 x 30 F 50 pieces.

Box quantity for FLM 8 x 25 F, 50 pieces.



Mushroom Head Bolt

nut and washer included

model no.	thread	length A mm/Inch	strength category	EAN code	Weight per 100 pc. kg
E3 FLM 6 X 12 E3	M6	12/0,5	1.4301	343805	0,8
E3 FLM 8 X 16 E3	M8	16/0,6	1.4301	343843	1,9
E3 FLM 10 X 25 E3	M10	25/1	1.4301	343881	4
E5 FLM 6 X 12 E5	M6	12/0,5	1.4571	729104	0,8

Box quantity for FLM 6 x 12 E3, FLM 8 x 16 E3, FLM 10 x 25 E3 and FLM 6 x 12 E5 50 pieces.



Mushroom Head Bolt

serrated flange nut and large diameter washer included

model no.	thread	length A mm/Inch	EAN code	Weight per 100 pc. kg
V FLDM 6X45	M6	45/1,8	207060	1,56
E3 FLDM 6X45 E3	M6	45/1,8	343829	1,56

for attaching cable trays on perforated C-rail

Box quantity for FLDM 6x45 50 pieces.



Anchor Bolt

for push-through and prepositioned installation

model no.	thread	EAN code	Weight per 100 pc. kg
V DAZ 8X10	8	842803	1,85
V DAZ 10X10	10	842827	6,2
V DAZ 10X30	10	842841	7
V DAZ 12X10	12	842865	9,75

High performance steel anchor with washer and nut for cracked and non/cracked concrete (C20/25 to C50/60) as well as for natural stone with dense structure.

Box quantity for DAZ 8x10, DAZ 10x10 50 pieces for DAZ 10x30 25 pieces and for DAZ 12x10 20 pieces.

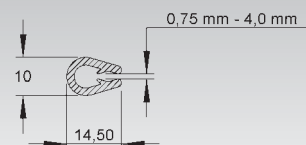


Edge Protection Strip

with steel or stainless steel insert

model no.	color	EAN code	Weight per 100 m kg
K10 RKBA 10	black	206100	15
K10 RKBA 10 E4	black	729050	15

To prevent accidents and injuries you must install edge protection strip!
temperature range -25°C to +70°C



Edge Protection Ring

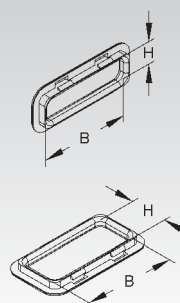
with high ultraviolet resistance

model no.	color	inside height H mm/Inch	inside dimension (B) mm/Inch	convenient for mm/Inch	EAN code	Weight per 100 kg
K04 KSR 20 A	black	14,5	58/2,3	20x65	946761	0,5
K04 KSR 30 A	black	24	58/2,3	30x65	946778	0,5

Protect cables against damages at the dropouts of tray or surface metal raceways.

To prevent accidents and injuries you must install the edge protection ring.

Box quantity for KSR 20 A + KSR 30 A 20 pieces.



Edge Protection Ring

with high ultraviolet resistance

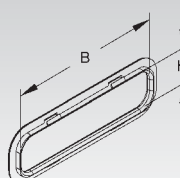
model no.	color	inside height H mm/Inch	inside dimension (B) mm/Inch	EAN code	Weight per 100 kg
K04 KSR 40 A	black	34,5	144,5/5,6	946785	1,3

Protect cables against damages at the dropouts of tray or surface metal raceways.

To prevent accidents and injuries you must install the edge protection ring.

For: distribution cable tray RSV 110...

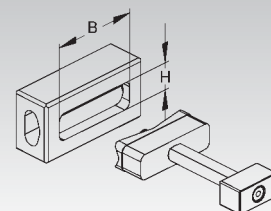
Box quantity for KSR 40 A 20 pieces.



Knockout Punches

model no.	height H mm/Inch	width B mm/Inch	EAN code	Weight per 100 pc. kg
B BL 20.65	20/0,8	65/2,5	872121	108
B BL 30.65	30/1,2	65/2,5	872145	108

for punching square cable dropouts (20x65 mm or 30x65 mm) into solid tray

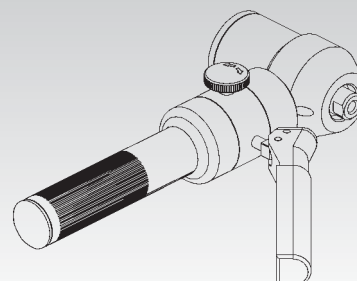


Hydraulic Hand Pump

model no.	height H mm/Inch	length A mm/Inch	EAN code	Weight per 100 pc. kg
HHA 90	112/4,4	295/11,5	872169	355

especially for metal punching tool type 20.65 and 30.65

For: Knockout Punches



Yoke-Clamp

with pressure cradle

model no.	for cable dia.	bolt head	thread	EAN code	Weight per 100 pc. kg
	mm/inch				
F BA 12	6 - 12	slotted hex head	M 6	051700	1,95
F BA 14	10 - 14	slotted hex head	M 6	051809	2,2
F BA 16	12 - 16	slotted hex head	M 6	051908	2,35
F BA 18	14 - 18	slotted hex head	M 6	052004	2,5
F BA 22	18 - 22	slotted hex head	M 6	052103	2,8
F BA 26	22 - 26	slotted hex head	M 6	052202	3,7
F BA 30	26 - 30	slotted hex head	M 6	052301	4,5
F BA 34	30 - 34	slotted hex head	M 6	052400	5,6
F BA 38	34 - 38	slotted hex head	M 6	052509	6,4
F BA 42	38 - 42	slotted hex head	M 6	052608	8,5
F BA 46	42 - 46	slotted hex head	M 8	052707	9,65
F BA 50	46 - 50	slotted hex head	M 8	052806	10,4
F BA 54	50 - 54	slotted hex head	M 8	052905	11
F BA 58	54 - 58	slotted hex head	M 8	053001	11,8
F BA 64	58 - 64	slotted hex head	M 8	053100	12,75
F BA 70	64 - 70	slotted hex head	M 8	053209	17
F BA 76	70 - 76	slotted hex head	M 8	053308	18,4
F BA 82	76 - 82	slotted hex head	M 8	053407	20,05
F BA 90	82 - 90	slotted hex head	M 8	053506	22,4
F BA 100	90 - 100	slotted hex head	M 8	053605	23,7
F BA 110	100 - 110	slotted hex head	M 8	053704	26,4
E3 BA 14 E3	10 - 14	slotted hex head	M 6	761609	2,2
E3 BA 18 E3	14 - 18	slotted hex head	M 6	761708	2,8
E3 BA 22 E3	18 - 22	slotted hex head	M 6	761807	2,8
E3 BA 26 E3	22 - 26	slotted hex head	M 6	761906	3,7
E3 BA 30 E3	26 - 30	slotted hex head	M 6	762002	4,1
E3 BA 34 E3	30 - 34	slotted hex head	M 6	762101	5,3
E3 BA 38 E3	34 - 38	slotted hex head	M 6	762200	7,3
E3 BA 42 E3	38 - 42	slotted hex head	M 6	762309	8,1
E3 BA 46 E3	42 - 46	slotted hex head	M 8	762408	9,4
E3 BA 50 E3	46 - 50	slotted hex head	M 8	762507	10,2
E3 BA 54 E3	50 - 54	slotted hex head	M 8	762606	10,8
E3 BA 58 E3	54 - 58	slotted hex head	M 8	762705	11,8
E3 BA 64 E3	58 - 64	slotted hex head	M 8	762804	12,8
E3 BA 70 E3	64 - 70	slotted hex head	M 8	762903	17
E3 BA 76 E3	70 - 76	slotted hex head	M 8	763009	18,4
AL BA 14 AL	10 - 14	DIN 84	M 6	071401	1,1
AL BA 16 AL	12 - 16	DIN 84	M 6	071500	1,19
AL BA 18 AL	14 - 18	DIN 84	M 6	071609	1,3
AL BA 22 AL	18 - 22	DIN 84	M 6	071708	1,5
AL BA 26 AL	22 - 26	DIN 84	M 8	071807	2
AL BA 30 AL	26 - 30	DIN 84	M 8	071906	2,15
AL BA 34 AL	30 - 34	DIN 84	M 8	072002	2,5
AL BA 38 AL	34 - 38	DIN 84	M 8	072101	2,95
AL BA 42 AL	38 - 42	DIN 84	M 8	072200	3,3
AL BA 46 AL	42 - 46	DIN 84	M 8	072309	3,8
AL BA 50 AL	46 - 50	DIN 84	M 8	072408	3,9
AL BA 54 AL	50 - 54	DIN 84	M 8	072507	4,2
AL BA 58 AL	54 - 58	DIN 84	M 8	072606	4,7
AL BA 64 AL	58 - 64	DIN 84	M 8	072705	5

for one cable

F type: Yoke clamp HDG and pressure cradle is pregalv.

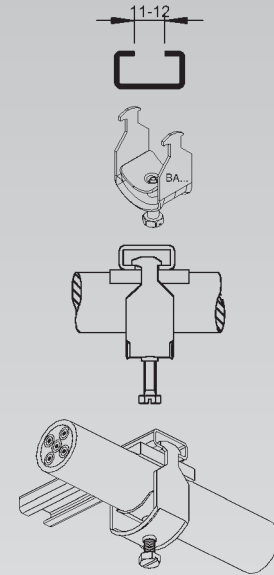
E3 type: Yoke clamp and pressure cradle are made from stainless steel.

AL type: Yoke clamp and pressure cradle are made from aluminum.

For: channel, slot width 11-12 mm

Box quantity for BA 12-46 100 pieces, for BA 50-90 50 pieces and for BA 100+110 25 pieces.

Counter pressure cradle (GWA/GWS) must be ordered separately.



Yoke-Clamp

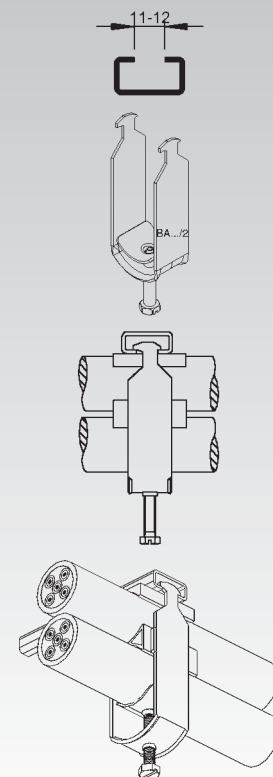
with pressure cradle

model no.	for cable dia.	bolt head	thread	EAN code	Weight per 100
	mm/Inch				kg
F BA 12/2	10 - 12	slotted hex head	M 6	053803	2,75
F BA 14/2	12 - 14	slotted hex head	M 6	053902	3,05
F BA 16/2	14 - 16	slotted hex head	M 6	054008	3,4
F BA 18/2	16 - 18	slotted hex head	M 6	054107	3,55
F BA 22/2	18 - 22	slotted hex head	M 6	054206	4,15
F BA 26/2	22 - 26	slotted hex head	M 6	054305	5,7
F BA 30/2	26 - 30	slotted hex head	M 6	054404	6,7
F BA 34/2	30 - 34	slotted hex head	M 6	054503	8,1
F BA 38/2	34 - 38	slotted hex head	M 6	054602	11,75
F BA 42/2	38 - 42	slotted hex head	M 6	054701	12,75
F BA 46/2	42 - 46	slotted hex head	M 8	054800	14,05
F BA 50/2	46 - 50	slotted hex head	M 8	054909	15

for two cables

F type: Yoke clamp HDG and pressure cradle is pregalv.

Box quantity for BA 12-46 100 pieces, for BA 50-90 50 pieces and for BA 100+110 25 pieces.
Counter pressure cradle (GWA/GWS) must be ordered separately.



Yoke-Clamp

with pressure cradle

model no.	for cable dia.	bolt head	thread	EAN code	Weight per 100 pc. kg
	mm/Inch				
F B 12	6 - 12	slotted hex head	M 6	047406	2,7
F B 14	10 - 14	slotted hex head	M 6	047505	2,8
F B 16	12 - 16	slotted hex head	M 6	047604	3,2
F B 18	14 - 18	slotted hex head	M 6	047703	3,5
F B 22	18 - 22	slotted hex head	M 6	047802	3,6
F B 26	22 - 26	slotted hex head	M 6	047901	3,7
F B 30	26 - 30	slotted hex head	M 6	048007	4,5
F B 34	30 - 34	slotted hex head	M 6	048106	5,6
F B 38	34 - 38	slotted hex head	M 6	048205	8
F B 42	38 - 42	slotted hex head	M 6	048304	8,5
F B 46	42 - 46	slotted hex head	M 8	048403	9,65
F B 50	46 - 50	slotted hex head	M 8	048502	10,4
F B 54	50 - 54	slotted hex head	M 8	048601	11
F B 58	54 - 58	slotted hex head	M 8	048700	11,8
F B 64	58 - 64	slotted hex head	M 8	048809	12,75
F B 70	64 - 70	slotted hex head	M 8	048908	17
F B 76	70 - 76	slotted hex head	M 8	049004	18,4
F B 82	76 - 82	slotted hex head	M 8	049103	20,05
F B 90	82 - 90	slotted hex head	M 8	049202	22,4
F B 100	90 - 100	slotted hex head	M 8	049301	23,7
F B 110	100 - 110	slotted hex head	M 8	049400	26,4
E3 B 14 E3	10 - 14	slotted hex head	M 6	081905	2,2
E3 B 18 E3	14 - 18	slotted hex head	M 6	082001	2,5
E3 B 22 E3	18 - 22	slotted hex head	M 6	082100	2,8
E3 B 26 E3	22 - 26	slotted hex head	M 6	082209	3,7
E3 B 30 E3	26 - 30	slotted hex head	M 6	082308	4,5
E3 B 34 E3	30 - 34	slotted hex head	M 6	082407	5,6
E3 B 38 E3	34 - 38	slotted hex head	M 6	082506	6,4
E3 B 42 E3	38 - 42	slotted hex head	M 6	082605	8,5
E3 B 46 E3	42 - 46	slotted hex head	M 8	082704	9,65
E3 B 50 E3	46 - 50	slotted hex head	M 8	082803	10,4
E3 B 54 E3	50 - 54	slotted hex head	M 8	082902	11
E3 B 58 E3	54 - 58	slotted hex head	M 8	083008	11,8
E3 B 64 E3	58 - 64	slotted hex head	M 8	083107	12,75
E3 B 70 E3	64 - 70	slotted hex head	M 8	083206	17
E3 B 76 E3	70 - 76	slotted hex head	M 8	083305	18,4
AL B 14 AL	10 - 14	DIN 84	M 6	069002	1,2
AL B 18 AL	14 - 18	DIN 84	M 6	069101	1,4
AL B 22 AL	18 - 22	DIN 84	M 8	069200	1,6
AL B 26 AL	22 - 26	DIN 84	M 8	069309	2,1
AL B 30 AL	26 - 30	DIN 84	M 8	069408	1,5
AL B 34 AL	30 - 34	DIN 84	M 8	069507	2,8
AL B 38 AL	34 - 38	DIN 84	M 8	069606	3
AL B 42 AL	38 - 42	DIN 84	M 8	069705	3,2
AL B 46 AL	42 - 46	DIN 84	M 8	069804	3,6
AL B 50 AL	46 - 50	DIN 84	M 8	069903	3,8
AL B 54 AL	50 - 54	DIN 84	M 8	070008	4,2
AL B 58 AL	54 - 58	DIN 84	M 8	070107	3,8
AL B 64 AL	58 - 64	DIN 84	M 8	070206	4,3

for one cable

F type: Yoke clamp HDG and pressure cradle is pregalv.

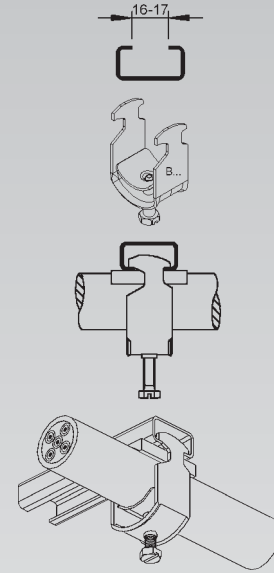
E3 type: Yoke clamp and pressure cradle are made from stainless steel.

AL type: Yoke clamp and pressure cradle are made from aluminum.

For: channel, slot width 16-17 mm

Box quantity for B 12-46 100 pieces, for B 50-90 50 pieces and for B 100+110 25 pieces.

counter pressure cradle (GWU/GWS) must be ordered separately



Yoke-Clamp

with pressure cradle

model no.	for cable dia.	bolt head	thread	EAN code	Weight per 100 pc. kg
	mm/Inch				
F B 12/2	10 - 12	slotted screw	M 6	049509	2,75
F B 14/2	12 - 14	slotted screw	M 6	049608	3,9
F B 16/2	14 - 16	slotted screw	M 6	049707	4,4
F B 18/2	16 - 18	slotted screw	M 6	049806	4,7
F B 22/2	18 - 22	slotted screw	M 6	049905	5,3
F B 26/2	22 - 26	slotted screw	M 6	050000	5,7
F B 30/2	26 - 30	slotted screw	M 6	050109	6,7
F B 34/2	30 - 34	slotted screw	M 6	050208	8,1
F B 38/2	34 - 38	slotted screw	M 6	050307	11,75
F B 42/2	38 - 42	slotted screw	M 6	050406	12,75
F B 46/2	42 - 46	slotted screw	M 8	050505	14,05
F B 50/2	46 - 50	slotted screw	M 8	050604	15
E3 B 14/2 E3	12 - 14	slotted screw	M 6	083404	3,1
E3 B 18/2 E3	16 - 18	slotted screw	M 6	083503	3,67
E3 B 22/2 E3	20 - 22	slotted screw	M 6	083602	4,41
E3 B 26/2 E3	24 - 26	slotted screw	M 6	083701	5,69
E3 B 30/2 E3	28 - 30	slotted screw	M 6	083800	6,51
E3 B 34/2 E3	32 - 34	slotted screw	M 6	083909	8,09
E3 B 38/2 E3	36 - 38	slotted screw	M 6	084005	11,97
E3 B 42/2 E3	40 - 42	slotted screw	M 6	084104	13,16
E3 B 46/2 E3	44 - 46	slotted screw	M 8	084203	13,8
E3 B 50/2 E3	48 - 50	slotted screw	M 8	084302	14,85
AL B 14/2 AL	12 - 14	DIN 84	M 6	070305	1,65
AL B 16/2 AL	14 - 16	DIN 84	M 6	070404	2
AL B 18/2 AL	14 - 18	DIN 84	M 6	070503	2,3
AL B 22/2 AL	18 - 22	DIN 84	M 6	070602	2,9
AL B 26/2 AL	22 - 26	DIN 84	M 8	070701	3,05
AL B 30/2 AL	26 - 30	DIN 84	M 8	070800	3,9
AL B 34/2 AL	30 - 34	DIN 84	M 8	070909	4,2
AL B 38/2 AL	34 - 38	DIN 84	M 8	071005	4,7
AL B 42/2 AL	38 - 42	DIN 84	M 8	071104	5,1
AL B 46/2 AL	42 - 46	DIN 84	M 8	071203	5,6
AL B 50/2 AL	46 - 50	DIN 84	M 8	071302	5,6

for two cables

F type: Yoke clamp HDG and pressure cradle is pregalv.

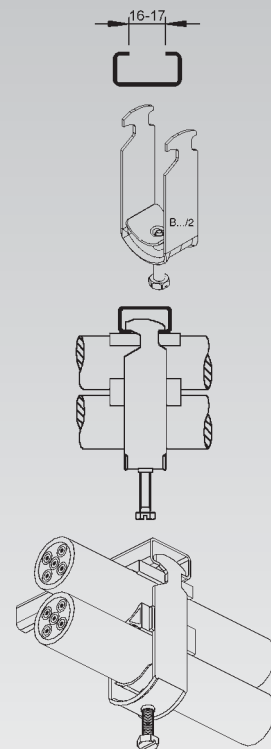
E3 type: Yoke clamp and pressure cradle are made from stainless steel.

AL type: Yoke clamp and pressure cradle are made from aluminum.

For: C-rail, slot width 16-17 mm

Box quantity for B 12/2-34/2 100 pieces and B 38/2-50/2 50 pieces.

Single (GW/GWS) and double-sided (DW) bottom saddles must be ordered separately



Yoke-Clamp

with pressure cradle

model no.	for cable dia.	bolt head	thread	EAN code	Weight per 100 pc. kg
	mm/inch				
F BU 12	6 - 12	slotted hex head	M 6	064601	1,95
F BU 14	10 - 14	slotted hex head	M 6	064700	3,2
F BU 16	12 - 16	slotted hex head	M 6	064908	3,4
F BU 18	14 - 18	slotted hex head	M 6	065004	3,6
F BU 22	18 - 22	slotted hex head	M 6	065103	4,1
F BU 26	22 - 26	slotted hex head	M 6	065202	4,4
F BU 30	26 - 30	slotted hex head	M 6	065301	4,5
F BU 34	30 - 34	slotted hex head	M 6	065400	5,6
F BU 38	34 - 38	slotted hex head	M 6	065509	8,2
F BU 42	38 - 42	slotted hex head	M 6	065608	8,5
F BU 46	42 - 46	slotted hex head	M 8	065707	9,65
F BU 50	46 - 50	slotted hex head	M 8	065806	10,4
F BU 54	50 - 54	slotted hex head	M 8	065905	11
F BU 58	54 - 58	slotted hex head	M 8	066001	11,8
F BU 64	58 - 64	slotted hex head	M 8	066100	12,75
F BU 70	64 - 70	slotted hex head	M 8	066209	17
F BU 76	70 - 76	slotted hex head	M 8	066308	18,4
F BU 82	76 - 82	slotted hex head	M 8	066407	20,05
F BU 90	82 - 90	slotted hex head	M 8	066506	22,4
F BU 100	90 - 100	slotted hex head	M 8	066605	23,7
F BU 110	100 - 110	slotted hex head	M 8	066704	26,4
E3 BU 12 E3	6 - 12	slotted hex head	M 6	757701	2,4
E3 BU 14 E3	10 - 14	slotted hex head	M 6	757800	2,7
E3 BU 18 E3	14 - 18	slotted hex head	M 6	757909	2,9
E3 BU 22 E3	18 - 22	slotted hex head	M 6	758005	3,3
E3 BU 26 E3	22 - 26	slotted hex head	M 6	758104	4,15
E3 BU 30 E3	26 - 30	slotted hex head	M 6	758203	4,55
E3 BU 34 E3	30 - 34	slotted hex head	M 6	758302	5,55
E3 BU 38 E3	34 - 38	slotted hex head	M 6	758401	6,1
E3 BU 42 E3	38 - 42	slotted hex head	M 6	758500	6,75
E3 BU 46 E3	42 - 46	slotted hex head	M 8	758609	9,4
E3 BU 50 E3	46 - 50	slotted hex head	M 8	758708	9,9
E3 BU 54 E3	50 - 54	slotted hex head	M 8	758807	11
E3 BU 58 E3	54 - 58	slotted hex head	M 8	758906	12,1
E5 BU 12 E5	6 - 12	slotted hex head	M 6	890507	2,4
E5 BU 14 E5	10 - 14	slotted hex head	M 6	890101	2,7
E5 BU 18 E5	14 - 18	slotted hex head	M 6	890149	2,9
E5 BU 22 E5	18 - 22	slotted hex head	M 6	890163	3,3
E5 BU 26 E5	22 - 26	slotted hex head	M 6	890187	4,15
E5 BU 30 E5	26 - 30	slotted hex head	M 6	890200	4,55
AL BU 14 AL	10 - 14	DIN 84	M 6	075409	1,4
AL BU 18 AL	14 - 18	DIN 84	M 6	075508	1,6
AL BU 22 AL	18 - 22	DIN 84	M 6	075607	1,7
AL BU 26 AL	22 - 26	DIN 84	M 6	075706	2,1
AL BU 30 AL	26 - 30	DIN 84	M 8	075805	1,6
AL BU 34 AL	30 - 34	DIN 84	M 8	075904	2,5
AL BU 38 AL	34 - 38	DIN 84	M 8	076000	2,7
AL BU 42 AL	38 - 42	DIN 84	M 8	076109	2,9
AL BU 46 AL	42 - 46	DIN 84	M 8	076208	3,15
AL BU 50 AL	46 - 50	DIN 84	M 8	076307	3,35
AL BU 54 AL	50 - 54	DIN 84	M 8	076406	3,65
AL BU 58 AL	54 - 58	DIN 84	M 8	076505	3,9
AL BU 64 AL	58 - 64	DIN 84	M 8	076604	4,3

for one cable

F type: Yoke clamp HDG and pressure cradle is pregalv.

E3 type: Yoke clamp and pressure cradle are made from stainless steel.

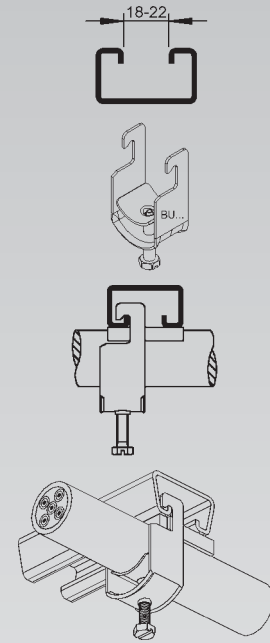
E5 type: Yoke clamp and pressure cradle are made from stainless steel.

AL type: Yoke clamp and pressure cradle are made from aluminum.

For: channel, slot width 18-22 mm

Box quantity for BU 12-46 100 pieces, for BU 50-90 50 pieces and for BU 100+110 25 pieces.

Counter pressure cradle (GWU/GWS) must be ordered separately.



Yoke-Clamp

with pressure cradle

model no.	for cable dia.	bolt head	thread	EAN code	Weight per 100 pc. kg
	mm/Inch				
F BU 12/2	10 - 12	slotted screw	M 6	066803	3,25
F BU 14/2	12 - 14	slotted screw	M 6	066902	4,3
F BU 16/2	14 - 16	slotted screw	M 6	067008	4,6
F BU 18/2	16 - 18	slotted screw	M 6	067107	4
F BU 22/2	18 - 22	slotted screw	M 6	067206	5,6
F BU 26/2	22 - 26	slotted screw	M 6	067305	6,1
F BU 30/2	26 - 30	slotted screw	M 6	067404	6,75
F BU 34/2	30 - 34	slotted screw	M 6	067503	8,15
F BU 38/2	34 - 38	slotted screw	M 6	067602	12,05
F BU 42/2	38 - 42	slotted screw	M 6	067701	12,9
F BU 46/2	42 - 46	slotted screw	M 8	067800	13,95
F BU 50/2	46 - 50	slotted screw	M 8	067909	14,9
E3 BU 12/2 E3	6 - 12	slotted screw	M 6	759002	3,15
E3 BU 14/2 E3	12 - 14	slotted screw	M 6	759101	3,5
E3 BU 16/2 E3	14 - 16	slotted screw	M 6	759156	3,75
E3 BU 18/2 E3	16 - 18	slotted screw	M 6	759200	3,9
E3 BU 22/2 E3	20 - 22	slotted screw	M 6	759309	4,55
E3 BU 26/2 E3	24 - 26	slotted screw	M 6	759408	5,9
E3 BU 30/2 E3	28 - 30	slotted screw	M 6	759507	6,6
E3 BU 34/2 E3	32 - 34	slotted screw	M 6	759606	7,95
E3 BU 38/2 E3	36 - 38	slotted screw	M 6	759705	9,1
E3 BU 42/2 E3	40 - 42	slotted screw	M 6	759804	12,55
E3 BU 46/2 E3	44 - 46	slotted screw	M 8	759903	13,65
E3 BU 50/2 E3	48 - 50	slotted screw	M 8	760008	14,2

for two cables

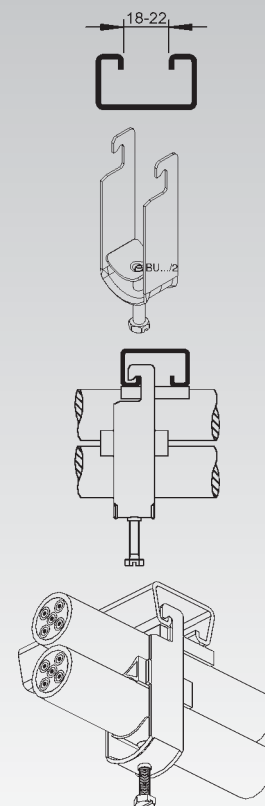
F type: Yoke clamp HDG and pressure cradle is pregalv.

E3 type: Yoke clamp and pressure cradle are made from stainless steel.

For: C-rail (18-22 mm slot width)

Box quantity for BU 12/2-34/2 100 pieces and BU 38/2-50/2 50 pieces.

Single (GWU/GWS) and double-sided (DW) bottom saddles must be ordered separately

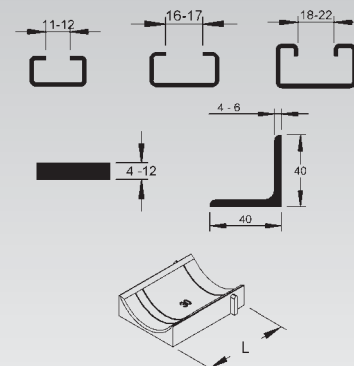


Counter Pressure Cradle for all Yoke-Clamps

model no.	for cable dia.	length A	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch		
K02 GWU 12	6 - 12	40/1,6	109609	0,09
K02 GWU 14	10 - 14	40/1,6	109708	0,1
K02 GWU 16	12 - 16	40/1,6	110001	0,13
K02 GWU 18	14 - 18	40/1,6	110100	0,14
K02 GWU 22	18 - 22	40/1,6	110209	0,25
K02 GWU 26	22 - 26	40/1,6	110308	0,3
K02 GWU 30	26 - 30	40/1,6	110407	0,45
K02 GWU 34	30 - 34	40/1,6	110506	0,5
K02 GWU 38	34 - 38	40/1,6	110605	0,56
K02 GWU 42	38 - 42	40/1,6	110704	0,62
K02 GWU 46	42 - 46	40/1,6	110803	0,68
K02 GWU 50	46 - 50	40/1,6	110902	0,75
K02 GWU 54	50 - 54	45/1,8	111008	1,3
K02 GWU 58	54 - 58	45/1,8	111107	1,45
K02 GWU 64	58 - 64	45/1,8	111206	1,6
K02 GWU 70	64 - 70	45/1,8	111305	1,83
K02 GWU 76	70 - 76	45/1,8	111404	2
K02 GWU 82	76 - 82	45/1,8	111503	2,2
K02 GWU 90	82 - 90	45/1,8	111602	2,4
K02 GWU 100	90 - 100	45/1,8	111701	2,8
K02 GWU 110	100 - 110	45/1,8	111800	3,2

for insertion into the Yoke-Clamp

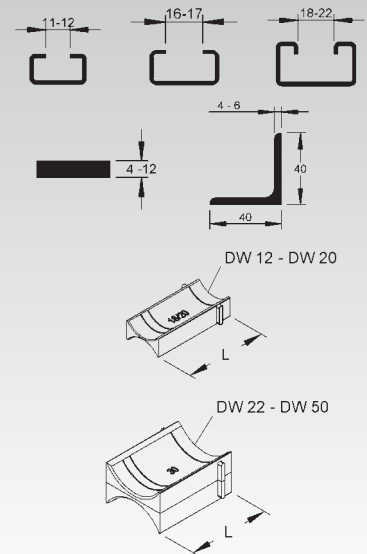
Box quantity for GWU 12-46 100 pieces, for GWU 50-90 50 pieces and for GWU 100+110 25 pieces.



Double Sided Cable Saddle

model no.	for cable dia.	length A	EAN code	Weight per 100
	mm/Inch	mm/Inch		kg
K02 DW 12	8 - 12	40/1,6	111909	0,2
K02 DW 14	12 - 14	40/1,6	112005	0,28
K02 DW 16	14 - 16	40/1,6	112104	0,35
K02 DW 18	16 - 18	40/1,6	112203	0,38
K02 DW 20	18 - 20	40/1,6	112302	0,38
K02 DW 22	20 - 22	40/1,6	112401	0,4
K02 DW 26	22 - 26	40/1,6	112609	0,45
K02 DW 30	26 - 30	40/1,6	112807	0,6
K02 DW 34	30 - 34	40/1,6	112906	0,6
K02 DW 38	34 - 38	40/1,6	113002	0,7
K02 DW 42	38 - 42	40/1,6	113101	1,25
K02 DW 46	42 - 46	40/1,6	113200	1,37
K02 DW 50	46 - 50	40/1,6	113309	1,51

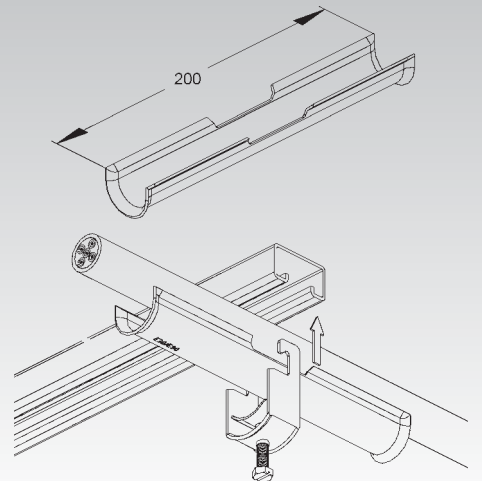
Box quantity for DW 12-30 100 pieces and for DW 34-50 50 pieces.



Pressure Cradle Extension

model no.	for cable dia.	EAN code	Weight per 100 pc. kg
	mm/Inch		
S LW 16	8 - 13	113408	7,8
S LW 22	13 - 19	113507	9,65
S LW 26	19 - 23	113606	10,9
S LW 34	23 - 31	113705	13,3
S LW 38	31 - 36	113804	14,6
S LW 42	36 - 40	113903	15,8
S LW 46	39 - 43	114009	17
S LW 50	43 - 47	114108	18,2
S LW 54	47 - 51	114207	19,4
S LW 58	51 - 55	787609	21,1
S LW 64	55 - 61	787708	23
S LW 70	61 - 67	794508	24,1
S LW 76	67 - 73	794607	25,8
S LW 82	73 - 79	794706	27,4

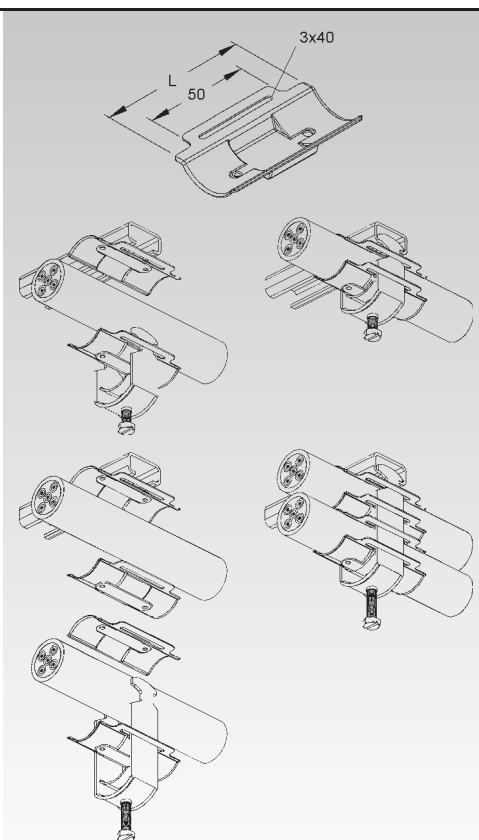
Box quantity for LW 12-46 100 pieces and LW 50-82 50 pieces.



Counter Pressure Cradle Steel

model no.	for cable dia.	EAN code	Weight per 100
	mm/Inch		kg
S GWS 14	10 - 14	107414	1
S GWS 16	12 - 16	107421	1,12
S GWS 18	14 - 18	107438	1,19
S GWS 22	18 - 22	107445	1,37
S GWS 26	22 - 26	107452	1,52
S GWS 30	26 - 30	107469	1,7
S GWS 34	30 - 34	107476	1,89
S GWS 38	34 - 38	107483	2,17

Box quantity for GWS 14-38 100 pieces.



Triangle-shaped Yoke-Clamp for three cables

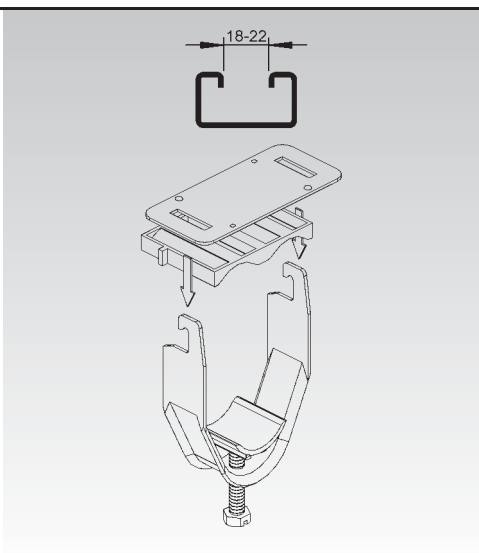
model no.	for cable dia.	EAN code	Weight per 100 pc. kg
	mm/Inch		
F BUD 30	28 - 32	099108	10,1
F BUD 36	32 - 36	099207	10,95
F BUD 44	36 - 44	099306	11,95

for three cables

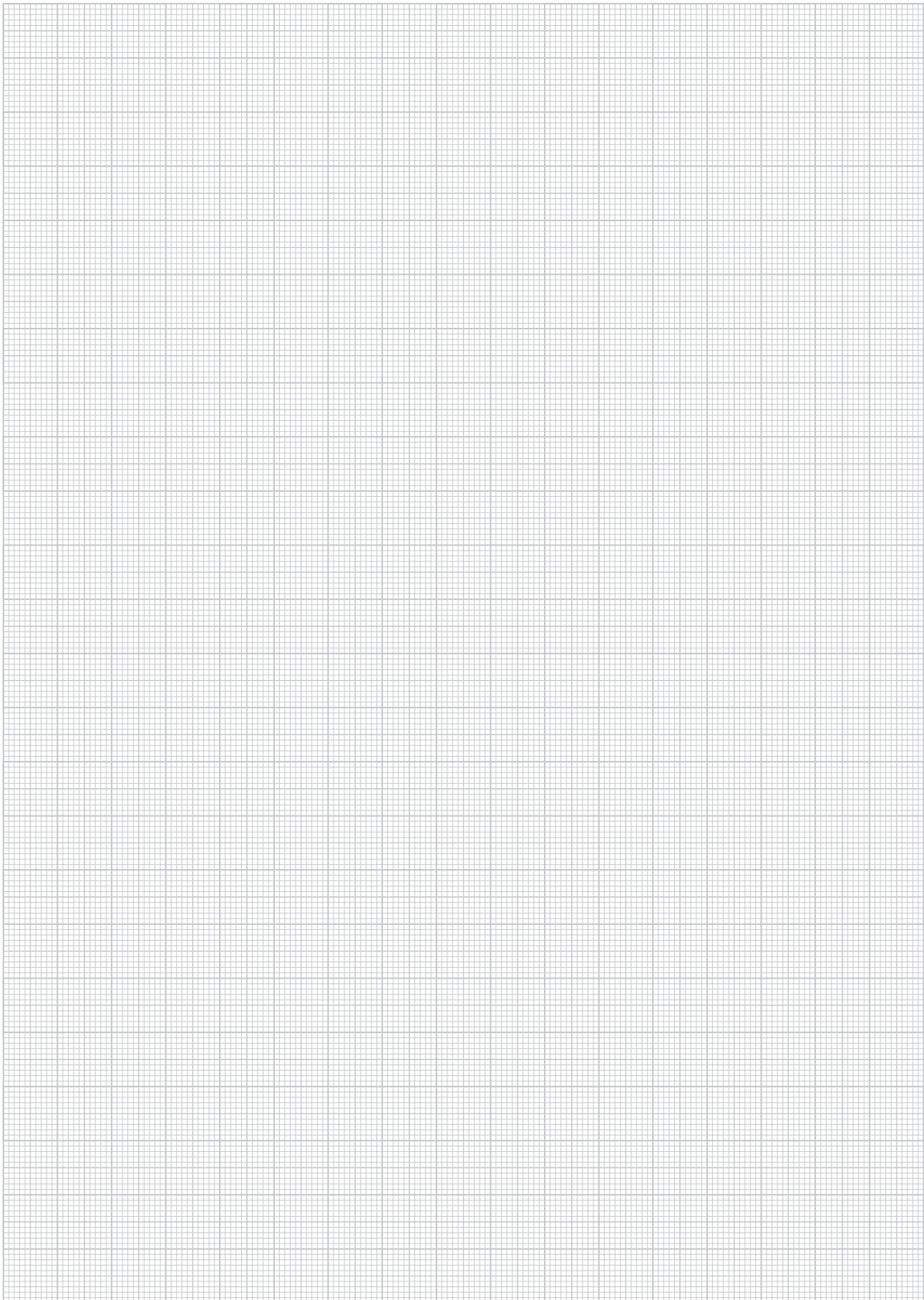
Bottom saddle and pressure craddles are made from halogen free polypropylene.

For: channel, slot width 18-22 mm

Box quantity for BUD 30-44 50 pieces.



NOTES



Wire Mesh Tray System

-  Wire Mesh Tray
-  Barrier Strips
-  Covers
-  Accessories



All straight sections of cable tray as well as their corresponding system components (fittings, splice plates, covers, ...) are classified by UL in accordance with NEMA VE 1 for the USA and CSA E22.2 No. 126.1 for Canada.

Please add an 'X' after the first sequence of characters in the part number to get your products labeled for UL conformity (f.e. RLV 60.200 becomes RLVX 60.200 or GRS 110.300 becomes GR5X 110.300).



Wire Mesh Tray is lightweight, flexible and easy to install. Due to its small surface area there is no accumulation of dirt or humidity. Cable ventilation is perfect.

There is no need for long term advanced planning and ordering. Just get straight sections of tray, a few accessories like the universal splice kit and a bolt cutter and you are ready to go. All kinds of fittings can be done onsite easily.

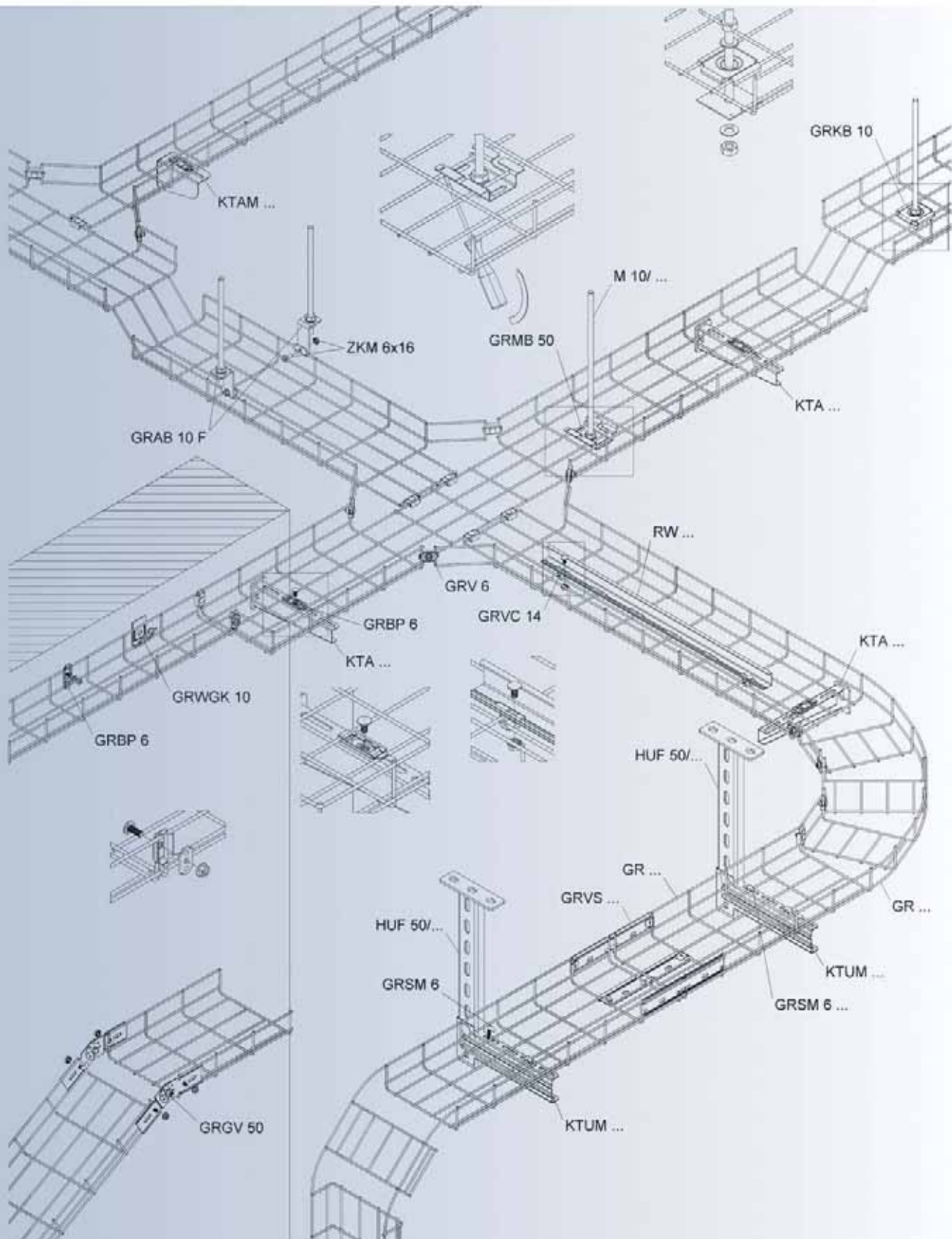
Wire Mesh Tray is available in many finishes and can be used in industrial and commercial environments, inside and outside.



Available Side Rail Heights

SYSTEM	Wire Mesh Tray	GR	 Page 124
	Wire Mesh Tray, u-shaped	GRS	 Page 124  Page 126  Page 127
ACCESSOIRES	Boltless Splice Plate	GRVS	Page 128*
	Universal Splice Plate	GRV 6	Page 128*
	Adjustable Splice Plate	GRGV 50	Page 128*
	Horizontal 90° Splice Plate	GRWV 20/250	Page 129*
	Barrier Strip	RW	Page 129*
	Splice Plate for Barrier Strip	RTV	Page 129*
	Mounting Clamp for Barrier Strip	GRVC 14	Page 129*
	J-Hook Bolt	GRSM 6	Page 130*
	Universal Wire Mesh Mounting Bracket	GRBP 6	Page 130*
	Wall Support and Center Hanger	GRWB 10	Page 130*
	Mounting with Threaded Rod	GRKB 10	Page 131*
	Wire Mesh Bracket	GRWVK 10	Page 131*
	Mounting Bracket	GRMB 50	Page 132*
	Cover for Wire Mesh Tray	GRD	Page 132*
	Quick Fix Center Hanger/Trapeze Support	GRTW	Page 133*
	Quick Fix L-Bracket	GRTKS	Page 133*
	Cable Drop Out	GRKA 50	Page 133*

* Applicable with all edge heights



Wire Mesh Cable Tray Specifications:

A. CABLE TRAY DESIGN

1. Wire mesh cable tray shall utilize high mechanical strength steel wire that is welded into a 2" x 4" (50 mm x 100 mm) grid system. This grid is then formed into channels, which support and carry cables and permit ventilation of cables and maximum heat dissipation.

B. MATERIAL

1. **Electro-plated zinc galvanized: ASTM B633.**
To be applied to welded and formed wire mesh surfaces.
2. **Hot dipped galvanized steel.**
All trays to be hot-dipped galvanized after fabrication in accordance with ASTM A123.
3. **Stainless steel.**
All trays are to be constructed of AISI type 304 or type 316 stainless steel for maximum corrosion resistance
4. **Epoxy Powder Coated Paint:**
available on special request

C. Tray Size

1. **Height:** Trays shall have an overall height of 2.3", 4.3", and 6.3" (60, 110 and 160 mm)
2. **Width:** Widths shall be 2", 4", 6", 8", 12", 16", 18" 20" and 24" (60, 100, 150, 200, 300, 400, 450, 500 and 600 mm).
3. **Length:** Length shall be a nominal 10' or 3 meters.

D. FITTINGS:

1. Shall be fabricated in the field by cutting wires with offset blade bolt cutters. Cuts shall be made in a manner reducing sharp edges and projections so they do not harm cables or installation personnel.
2. Dividers. Provide pre-galvanized steel, full depth divider strips to follow the contours of the mesh sections to allow different wiring systems to be run in the same tray.
3. Supports: Manufacturers specified supports and hardware are to be used for installation
4. Splices: Two options available, bolted type or non bolted to splice sections end to end, in pre-galvanized steel, hot dipped galvanized steel, and stainless steel.

E. UL CLASSIFICATION

1. Straight sections shall be UL classified as an equipment grounding conductor

F. DESIGN AND MANUFACTURE

1. GRX/GRSX series cable tray shall be manufactured by The NIEDAX Group.

Load / Span Class Designation in accordance with NEMA VE 1 and CSA E22.2 No. 126.1

NIEDAX Series	Minimum Area		Load class in accordance to NEMA VE 1		
	(calculational) mm ² / in. ²	in accordance to NEMA VE 2 mm ² / in. ²	Rated Load Kg/m / lb./ft.	Support spacing m / ft.	Load/Span Class
GRX 35.100, ... F	38 / 0.06	-	12 / 8.1	2 / 6.6	-
GRX 35.150, ... F	48 / 0.07	-	12 / 8.1	2 / 6.6	-
GRX 35.200, ... F	58 / 0.09	-	12 / 8.1	2 / 6.6	-
GRX 35.300, ... F	101 / 0.16	-	16.5 / 11.1	2 / 6.6	-
GRX 35.400, ... F	126 / 0.19	-	16.5 / 11.1	2 / 6.6	-
GRX 40.040, ... F	38 / 0.06	-	42.7 / 28.8	1 / 3.3	-
GRX 60.100, ... F, ... E3	58 / 0.09	-	16.5 / 11.1	2 / 6.6	-
GRX 60.150, ... F, ... E3	67 / 0.10	-	16.5 / 11.1	2 / 6.6	-
GRX 60.200, ... F, ... E3	77 / 0.12	-	16.5 / 11.1	2 / 6.6	-
GRX 60.300, ... F, ... E3	126 / 0.19	-	31.5 / 21.2	2 / 6.6	-
GRX 60.400, ... F, ... E3	151 / 0.23	129 / 0.2	31.5 / 21.2	2 / 6.6	-
GRSX 60.060, ... F ... E3	64 / 0.10	-	25.5 / 17.1	2 / 6.6	-
GRSX 60.100, ... F ... E3	75 / 0.12	-	25.5 / 17.1	2 / 6.6	-
GRSX 60.150, ... F ... E3	111 / 0.17	-	25.5 / 17.1	2 / 6.6	-
GRSX 60.200, ... F ... E3	127 / 0.20	-	25.5 / 17.1	2 / 6.6	-
GRSX 60.300, ... F ... E3	181 / 0.28	129 / 0.2	63 / 42.3	2 / 6.6	A
GRSX 60.400, ... F ... E3	217 / 0.34	129 / 0.2	63 / 42.3	2 / 6.6	A
GRSX 60.500, ... F ... E3	253 / 0.39	129 / 0.2	63 / 42.3	2 / 6.6	A
GRX 110.100, ... F	77 / 0.12	-	53.3 / 35.9	2 / 6.6	-
GRX 110.200, ... F	125 / 0.19	-	53.3 / 35.9	2 / 6.6	-
GRX 110.300, ... F	151 / 0.23	129 / 0.2	53.3 / 35.9	2 / 6.6	-
GRX 110.400, ... F	175 / 0.27	129 / 0.2	53.3 / 35.9	2 / 6.6	-
GRX 110.500, ... F	201 / 0.31	129 / 0.2	53.3 / 35.9	2 / 6.6	-
GRX 110.600, ... F	226 / 0.35	129 / 0.2	53.3 / 35.9	2 / 6.6	-
GRSX 110.200, ... F	181 / 0.28	129 / 0.2	83.3 / 56	2 / 6.6	A
GRSX 110.300, ... F	217 / 0.34	129 / 0.2	83.3 / 56	2 / 6.6	A
GRSX 110.450, ... F	271 / 0.42	258 / 0.4	83.3 / 56	2 / 6.6	A
GRSX 110.600, ... F	326 / 0.50	258 / 0.4	103.3 / 69.4	2 / 6.6	A
GRSX 110.200, ... E3	159 / 0.25	129 / 0.2	50 / 33.6	2 / 6.6	-
GRSX 110.300, ... E3	191 / 0.30	129 / 0.2	50 / 33.6	2 / 6.6	-
GRSX 110.450, ... E3	239 / 0.37	129 / 0.2	50 / 33.6	2 / 6.6	-
GRSX 110.600, ... E3	286 / 0.44	258 / 0.4	60 / 40.3	2 / 6.6	-
GRSX 160.200, ... F	217 / 0.34	129 / 0.2	83.3 / 56	2 / 6.6	A
GRSX 160.300, ... F	253 / 0.39	129 / 0.2	83.3 / 56	2 / 6.6	A
GRSX 160.450, ... F	308 / 0.48	258 / 0.4	83.3 / 56	2 / 6.6	A
GRSX 160.600, ... F	362 / 0.56	258 / 0.4	123.3 / 82.9	2 / 6.6	A
GRSX 160.200, ... E3	191 / 0.30	129 / 0.2	56.7 / 38.1	2 / 6.6	-
GRSX 160.300, ... E3	223 / 0.35	129 / 0.2	56.7 / 38.1	2 / 6.6	-
GRSX 160.450, ... E3	270 / 0.42	258 / 0.4	56.7 / 38.1	2 / 6.6	-
GRSX 160.600, ... E3	318 / 0.49	258 / 0.4	73.3 / 49.3	2 / 6.6	A

WIRE MESH TRAY SYSTEM

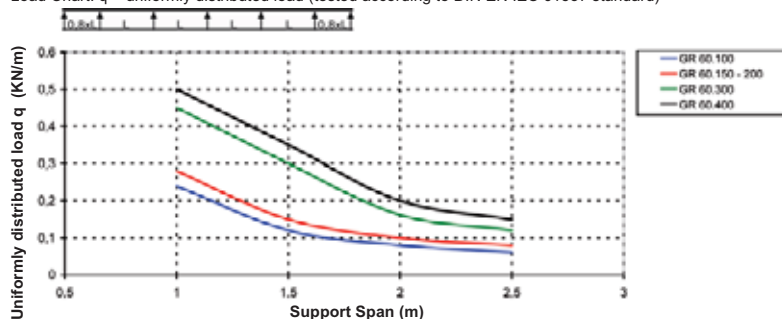
Wire Mesh Tray

U-shaped

model no.	height H	width B	thick-ness t	EAN code	Weight per 100 m kg
E3 GR 60.100 E3	60/2,3	100/3,9	3,5	343720	62
E3 GR 60.150 E3	60/2,3	150/5,8	3,5	343737	74
E3 GR 60.200 E3	60/2,3	200/7,8	3,5	343744	84
E3 GR 60.300 E3	60/2,3	300/11,7	4	343768	140
E3 GR 60.400 E3	60/2,3	400/15,6	4	343782	170

Splice plates have to be ordered separately.

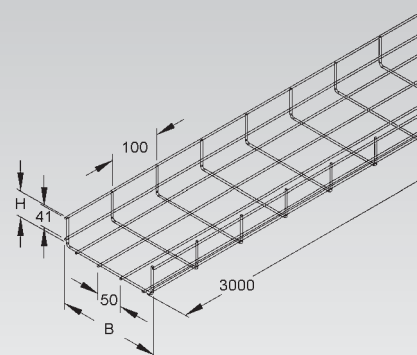
Load Chart: q = uniformly distributed load (tested according to DIN EN IEC 61537 standard)



Specified load ratings are independent of splice plate location.



53



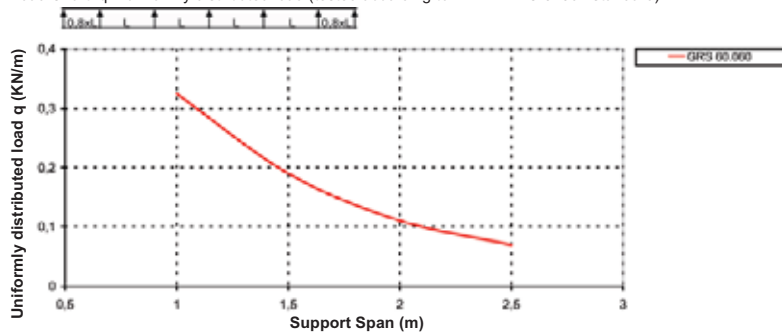
Wire Mesh Tray

U-shaped

model no.	height H	width B	thick-ness t	EAN code	Weight per 100 m kg
V GRS 60.060	60/2,3	60/2,3	4	781904	56
F GRS 60.060 F	60/2,3	60/2,3	4	892204	59,3
E3 GRS 60.060 E3	60/2,3	60/2,3	4,5	801152	70

Splice plates have to be ordered separately.

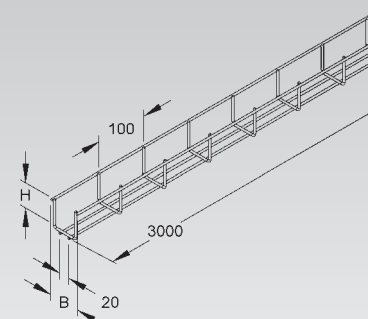
Load Chart: q = uniformly distributed load (tested according to DIN EN IEC 61537 standard)



Specified load ratings are independent of splice plate location.



54



Wire Mesh Tray

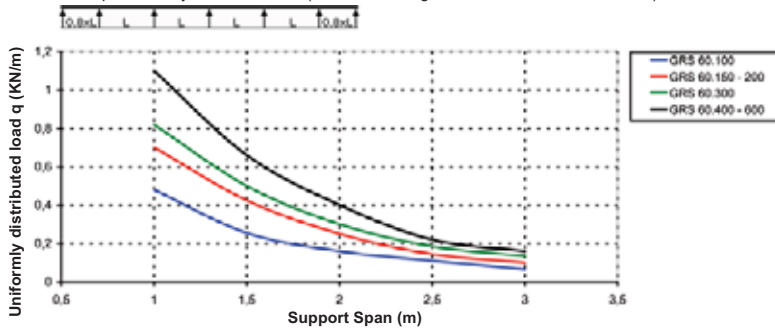
U-shaped

	model no.	height H	width B	thick- ness t	dist. A	EAN code	Weight per 100 m kg
		mm/Inch	mm/Inch	mm/Inch	mm/Inch		
V	GRS 60.100	60/2,3	100/3,9	4	40	781928	80
V	GRS 60.150	60/2,3	150/5,8	4,5	37,5	781942	119
V	GRS 60.200	60/2,3	200/7,8	4,5	37,5	781966	138
V	GRS 60.300	60/2,3	300/11,7	4,8	37,5	781980	200
V	GRS 60.400	60/2,3	400/15,6	4,8	37,5	782000	244
V	GRS 60.450	60/2,3	450/17,6	4,8	37,5	967452	
V	GRS 60.500	60/2,3	500/19,5	4,8	37,5	782024	287
V	GRS 60.600	60/2,3	500/19,5	4,8	37,5	782048	333
F	GRS 60.100 F	60/2,3	100/3,9	4	40	892228	85,3
F	GRS 60.150 F	60/2,3	150/5,8	4,5	37,5	892242	127
F	GRS 60.200 F	60/2,3	200/7,8	4,5	37,5	892266	148,3
F	GRS 60.300 F	60/2,3	300/11,7	4,8	37,5	892280	214
F	GRS 60.400 F	60/2,3	400/15,6	4,8	37,5	892303	261,6
F	GRS 60.450 F	60/2,3	450/17,6	4,8	37,5	967469	
F	GRS 60.500 F	60/2,3	500/19,5	4,8	37,5	892327	307,6
F	GRS 60.600 F	60/2,3	600/23,4	4,8	37,5	935758	353,3
E3	GRS 60.100 E3	60/2,3	100/3,9	4,5	37,5	801169	99,3
E3	GRS 60.150 E3	60/2,3	150/5,8	4,5	37,5	801176	118,3
E3	GRS 60.200 E3	60/2,3	200/7,8	4,5	37,5	801183	139
E3	GRS 60.300 E3	60/2,3	300/11,7	4,5	37,5	903528	177
E3	GRS 60.400 E3	60/2,3	400/15,6	4,5	37,5	903542	215
E3	GRS 60.450 E3	60/2,3	450/17,6	4,5	37,5	967476	
E3	GRS 60.500 E3	60/2,3	500/19,5	4,5	37,5	903566	253
E3	GRS 60.600 E3	60/2,3	600/23,4	4,5	37,5	903580	295

Splice plates have to be ordered separately.

GRS 60... E5 available in US and Canada only.

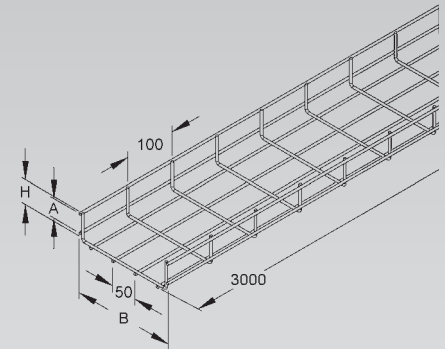
Load Chart: q = uniformly distributed load (tested according to DIN EN IEC 61537 standard)



Specified load ratings are independent of splice plate location.



54



WIRE MESH TRAY SYSTEM

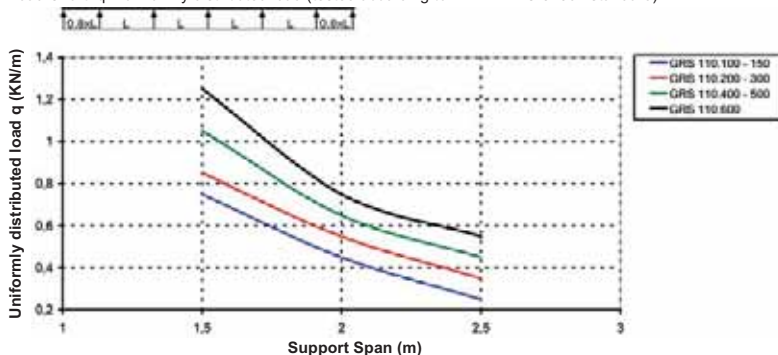
Wire Mesh Tray

U-shaped

model no.	height H mm/Inch	width B mm/Inch	thick- ness t mm/Inch	EAN code	Weight per 100 m kg
V GRS 110.100	110/4,3	100/3,9	4,5	930500	140
V GRS 110.150	110/4,3	150/5,8	4,5	909339	163
V GRS 110.200	110/4,3	200/7,8	4,8	930517	200
V GRS 110.300	110/4,3	300/11,7	4,8	930524	240
V GRS 110.450	110/4,3	450/17,6	4,8	933969	306,9
V GRS 110.600	110/4,3	600/23,4	4,8	930555	374
F GRS 110.100 F	110/4,3	100/3,9	4,5	930562	151
F GRS 110.200 F	110/4,3	200/7,8	4,8	930579	175
F GRS 110.300 F	110/4,3	300/11,7	4,8	930586	215
F GRS 110.450 F	110/4,3	450/17,6	4,8	933976	329,9
F GRS 110.600 F	110/4,3	600/23,4	4,8	930616	403

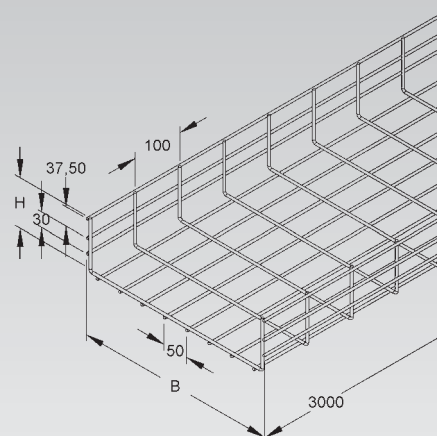
Splice plates have to be ordered separately.

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



Specified load ratings are independent of splice plate location.

110



Wire Mesh Tray

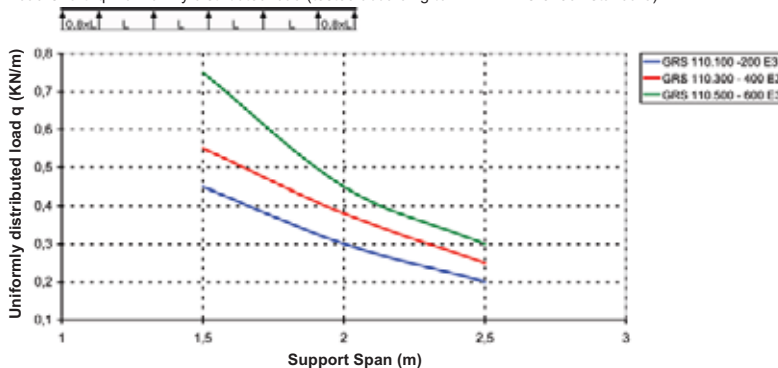
U-shaped

model no.	height H mm/Inch	width B mm/Inch	thick- ness t mm/Inch	EAN code	Weight per 100 m kg
E3 GRS 110.100 E3	110/4,3	100/3,9	4,5	930722	130
E3 GRS 110.200 E3	110/4,3	200/7,8	4,5	930739	177
E3 GRS 110.300 E3	110/4,3	300/11,7	4,5	930746	215
E3 GRS 110.450 E3	110/4,3	450/17,6	4,5	934041	271,6
E3 GRS 110.600 E3	110/4,3	600/23,4	4,5	930777	329

Splice plates have to be ordered separately.

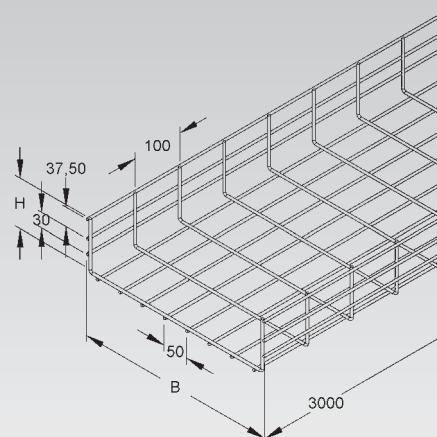
GRS 110... E5 available in US and Canada only.

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



Specified load ratings are independent of splice plate location.

110



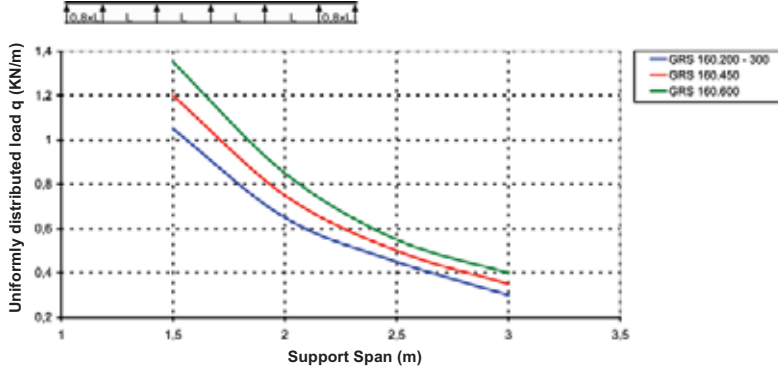
Wire Mesh Tray

U-shaped

model no.	height H mm/Inch	width B mm/Inch	thick- ness t mm/Inch	EAN code	Weight per 100 m kg
V GRS 160.200	160/6,2	200/7,8	4,8	930623	240
V GRS 160.300	160/6,2	300/11,7	4,8	930630	287
V GRS 160.450	160/6,2	450/17,6	4,8	934010	350
V GRS 160.600	160/6,2	600/23,4	4,8	930661	413
F GRS 160.200 F	110/4,3	200/7,8	4,8	930678	258
F GRS 160.300 F	110/4,3	300/11,7	4,8	930685	332
F GRS 160.450 F	110/4,3	450/17,6	4,8	934027	376
F GRS 160.600 F	110/4,3	600/23,4	4,8	930715	444

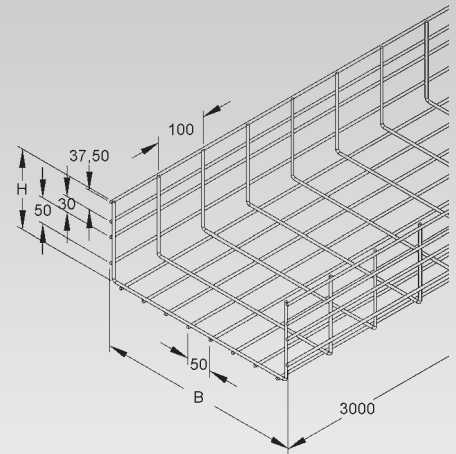
Splice plates have to be ordered seperately.

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



Specified load ratings are independant of splice plate location.

160



Wire Mesh Tray

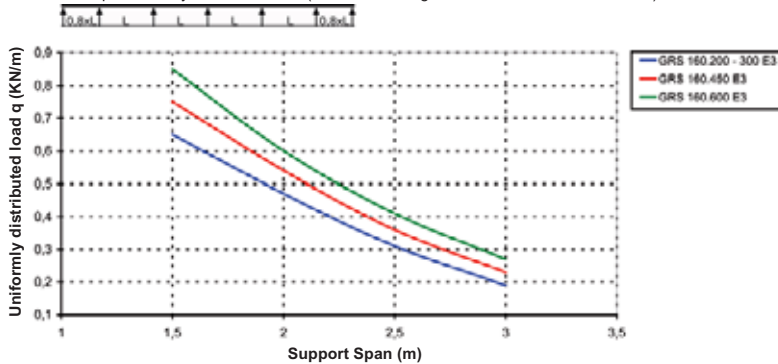
U-shaped

model no.	height H mm/Inch	width B mm/Inch	thick- ness t mm/Inch	EAN code	Weight per 100 m kg
E3 GRS 160.200 E3	160/6,2	200/7,8	4,5	930845	215
E3 GRS 160.300 E3	160/6,2	300/11,7	4,5	930852	262
E3 GRS 160.450 E3	160/6,2	450/17,6	4,5	934072	319
E3 GRS 160.600 E3	160/6,2	600/23,4	4,5	930883	376

Splice plates have to be ordered seperately.

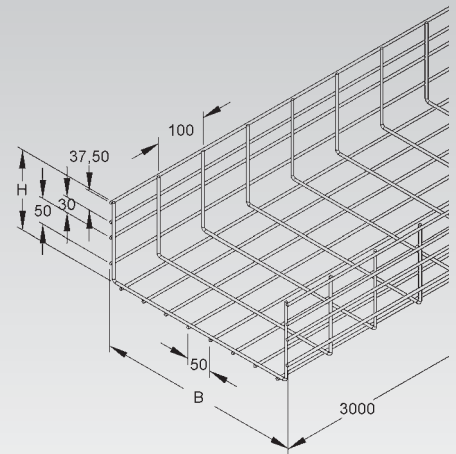
GRS 160... E5 available in US and Canada only.

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



Specified load ratings are independant of splice plate location.

160



WIRE MESH TRAY SYSTEM ACCESSORIES

Boltless Splice Plate

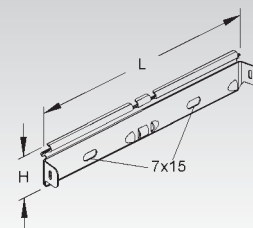
model no.	height H	length A	for wire gauge	EAN code	Weight per 100 pc. kg
S GRVS 4	37/1,4	220/8,6	3,5 - 4,0	280353	0,8
S GRVS 5	38/1,5	220/8,6	4,0 - 5,0	280377	8,3
E3 GRVS 4 E3	37/1,4	220/8,6	3,5 - 4,0	781201	0,8
E3 GRVS 5 E3	38/1,5	220/8,6	4,0 - 5,0	340118	0,8

for straight connections of wire mesh tray

Please use E3 stainless steel splice plates for HDG wire mesh basket.



55



Universal Splice Plate

model no.	acc. incl.	EAN code	Weight per 100 pc. kg
S GRV 6	1 FLM 6x16 F	280209	3,5
F GRV 6 F	1 FLM 6x16 F	280186	0,3
E3 GRV 6 E3	1 FLM 6x16 E3	802104	3,5

for making straight runs of wire mesh tray and fittings for wire mesh tray



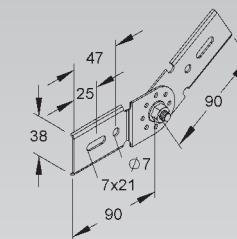
53



Adjustable Splice Plate

model no.	acc. incl.	EAN code	Weight per 100 pc. kg
S GRGV 50	2 GRSM 6	940561	11
F GRGV 50 F	2 GRSM 6 F	940585	12
E3 GRGV 50 E3	2 GRSM 6 E3	940578	11

for custom built vertical elbows



GRGV 50, ...F, ...E3

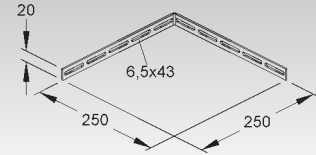
GR 110.100 - 600, ...F
GRCI 50.050 F - 300 F

GR 60.100 - 600, ...F
GR 60.100 E3 - 400 E3
GRS 60.100 - 600, ...F, ...E3
GRC 60.060 - 500, ...E3

GRGV 50, ...F, ...E3

Horizontal 90°/Tee Splice Kit

model no.	height H	width B	acc. incl.	EAN code	Weight per 100 pc. kg
F GRWV 20/250 F	20/0,8	250/9,8	4 GRSM 6	280452	

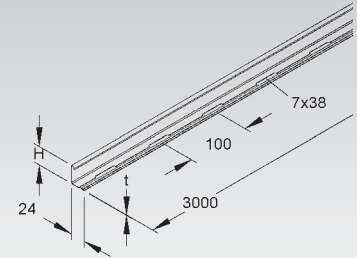


Barrier Strip

model no.	height H	thick- ness t	acc. incl.	EAN code	Weight per 100 m kg
S RW 35	30/1,2	0,75	4 FLM 6x12	213504	35
S RW 50	47/1,8	0,75	4 FLM 6x12	224951	45
S RW 60	55/2,1	0,75	4 FLM 6x12	225002	50
S RW 85	80/3,1	0,9	4 FLM 6x12	237609	92
S RW 110	98/3,8	0,9	4 FLM 6x12	251001	90
F RW 35 F	30/1,2	0,75	4 FLM 6x12 F	213603	35
F RW 60 F	55/2,1	0,75	4 FLM 6x12 F	225101	50
F RW 85 F	80/3,1	0,9	4 FLM 6x12 F	237708	92
F RW 110 F	98/3,8	0,9	4 FLM 6x12 F	251100	90
E3 RW 50 E3	47/1,8	0,8	4 FLM 6x12 E3	333356	45

To separate wires and cables of different voltage levels or with different functions.

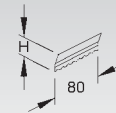
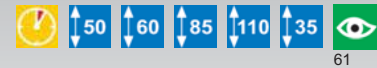
Flange with slotted holes 7x38 mm, spacing 100 mm.



Splice Plate for Barrier Strip

model no.	height H	length A	EAN code	Weight per 100 pc. kg
E2 RTV 35 E2	29/1,1	80/3,1	213658	1
E2 RTV 50 E2	46,5/1,8	80/3,1	224999	1
E2 RTV 60 E2	54,5/2,1	80/3,1	225149	1,5
E2 RTV 85 E2	79,5/3,1	80/3,1	237753	2
E2 RTV 110 E2	97,5/3,8	80/3,1	251162	3

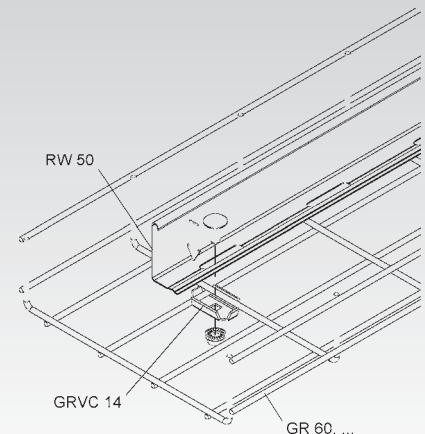
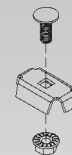
For positive locking connections and proper bonding of barrier strips.



Mounting Clamp for Barrier Strip

model no.	acc. incl.	EAN code	Weight per 100 pc. kg
S GRVC 14	1 FLM 6x16	280308	3
F GRVC 14 F	1 FLM 6x16 F	280339	3
E3 GRVC 14 E3	1 FLM 6x16 E3	841509	3

for attaching barrier strips to wire mesh tray



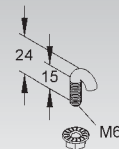
WIRE MESH TRAY SYSTEM ACCESSORIES

J - Hook Bolt

model no.	thread	EAN code	Weight per 100 pc. kg
V GRSM 6	M6	280506	1
E3 GRSM 6 E3	M6	343799	2,7

to fix wire mesh tray on brackets

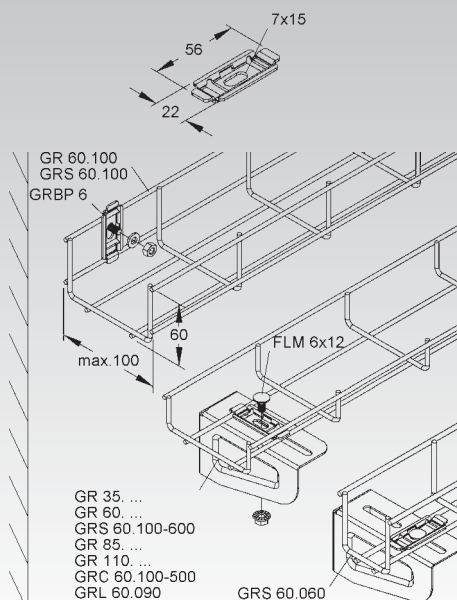
serrated flange nut included



Universal Wire Mesh Mounting Bracket

model no.	EAN code	Weight per 100 pc. kg
S GRBP 6 S	936953	1,2
E3 GRBP 6 E3	936960	1,2

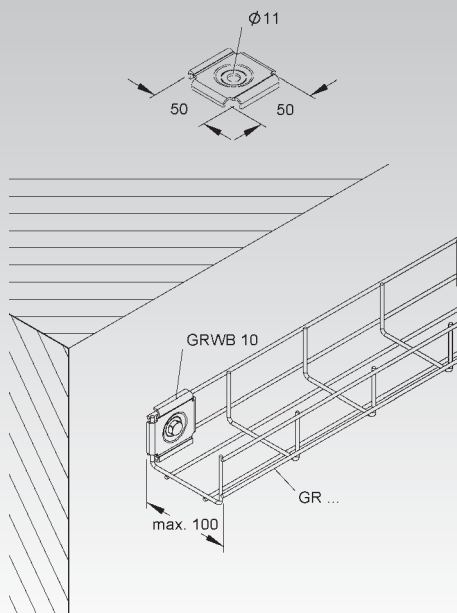
Hardware is not included.



Wall Bracket and Floor Support

model no.	EAN code	Weight per 100 pc. kg
S GRWB 10	280605	6
F GRWB 10 F	280650	6,5
E3 GRWB 10 E3	802005	5

for wall mounting of wire mesh tray with a max. width of 100 mm and for centered hanging of wire mesh tray (max. width 300 mm) by threaded rod



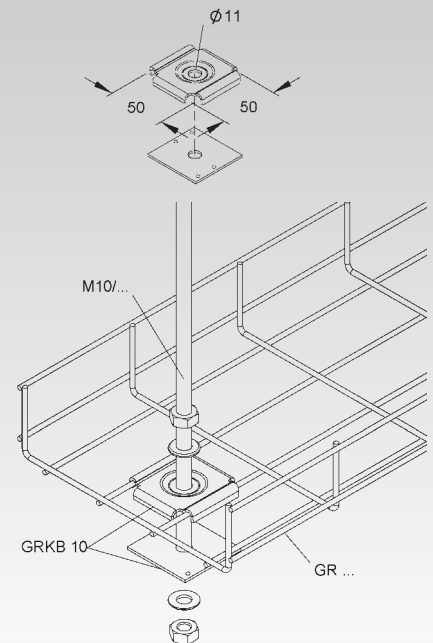
Center Hanger

model no.	EAN code	Weight per 100 pc. kg
S GRKB 10	280704	10
F GRKB 10 F	280759	10

for wall mounting of wire mesh tray with a max. width of 100 mm and for centered hanging of wire mesh tray (max. width 300 mm) by threaded rod



53



Wire Mesh Mounting Bracket

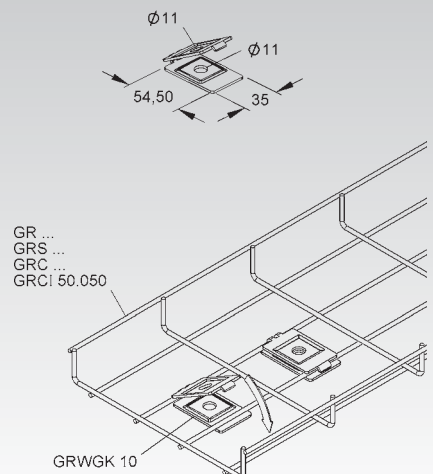
model no.	EAN code	Weight per 100 pc. kg
S GRWGK 10 S	280797	5,8
E3 GRWGK 10 E3	931057	5,8

for wall mounting of wire mesh tray with a max. width of 100 mm and for centered hanging of wire mesh tray (max. width 300 mm) by threaded rod

Can be used for all kinds of wire mesh tray from wire gauge 3.0 mm to 6.0 mm. GR 40.040 and GRS 60.060 are supported as well.



54



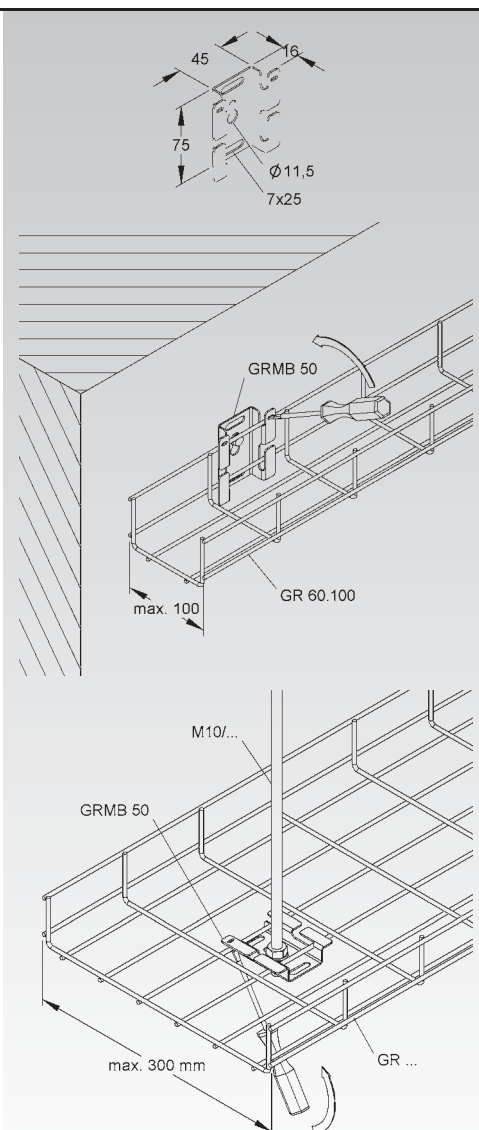
WIRE MESH TRAY SYSTEM ACCESSORIES

Wall Mounting Bracket

for wire mesh tray

model no.	EAN code	Weight per 100 pc. kg
S GRMB 50	864904	8,5
E3 GRMB 50 E3	912018	8,5

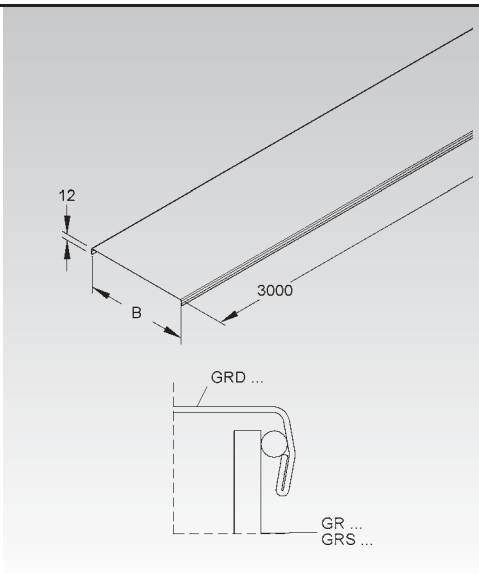
for wall mounting of wire mesh tray with a max. width of 100 mm and for centered hanging of wire mesh tray (max. width 300 mm) by threaded rod



Snapon Cover for Wire Mesh Tray

model no.	width B	thick-ness t	EAN code	Weight per 100 m kg
	mm/Inch	mm/Inch		
S GRD 60	58,5/2,3	0,75	909346	55,6
S GRD 100	98,5/3,8	0,75	909360	78
S GRD 150	148,5/5,8	0,75	909384	109
S GRD 200	198,5/7,7	0,75	909407	139
S GRD 300	298,5/11,6	0,9	922000	239
E3 GRD 60 E3	58,5/2,3	0,8	801206	57
E3 GRD 100 E3	98,5/3,8	0,8	801251	83
E3 GRD 150 E3	148,5/5,8	0,8	801220	115,6
E3 GRD 200 E3	198,5/7,7	0,8	801305	146
E3 GRD 300 E3	298,5/11,6	0,8	801374	210,6

Hot-dip galvanized finish available on request.



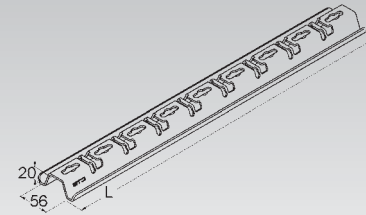
Quick Fix Center Hanger/Trapeze Support

model no.	Total length L mm/Inch	EAN code	Weight per 100 kg
★ S GRTW 300 S	350/13,6	967490	53
★ S GRTW 500 S	550/21,4	967506	84
★ S GRTW 600 S	650/25,4	967513	100
★ S GRTW 3000 S	3000/117	967520	570

The GRTW profile is specially designed for ceiling support of wire mesh tray by means of threaded rod. It provides full bottom support when used as center hanger (up to 300 mm width of tray) or as trapeze hanger using two pieces of threaded rod.

The GRTW accommodates 1/4" and 3/8" or M8 and M10 rod sizes. The wire mesh basket installs quickly to the GRTW using a screwdriver. No bolts and nuts are required. Thus the overall installation time is reduced significantly.

The GRTW is available in pre-cut length or in 10' (3000 mm) sections to allow field cutting to length.

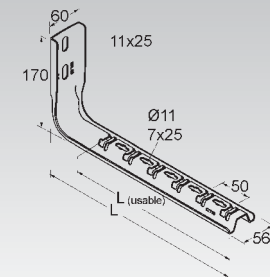


Quick Fix L-Bracket

model no.	Total length L mm/Inch	EAN code	Weight per 100 kg
★ S GRTKS 150 S	215/8,4	967537	34
★ S GRTKS 200 S	265/10,3	967544	41
★ S GRTKS 300 S	365/14,2	967551	54
★ S GRTKS 500 S	565/22	967568	80
★ S GRTKS 600 S	665/25,9	967575	93

The GRTKS is a specially designed wall bracket for wire mesh tray. The wire mesh basket installs quickly to the GRTKS using a screwdriver.

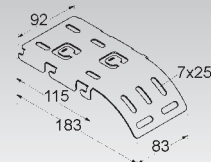
No bolts and nuts are required. Thus the overall installation time is reduced significantly. The use of 3/8" or M10 steel anchor bolts is recommended for secure wall mounting.

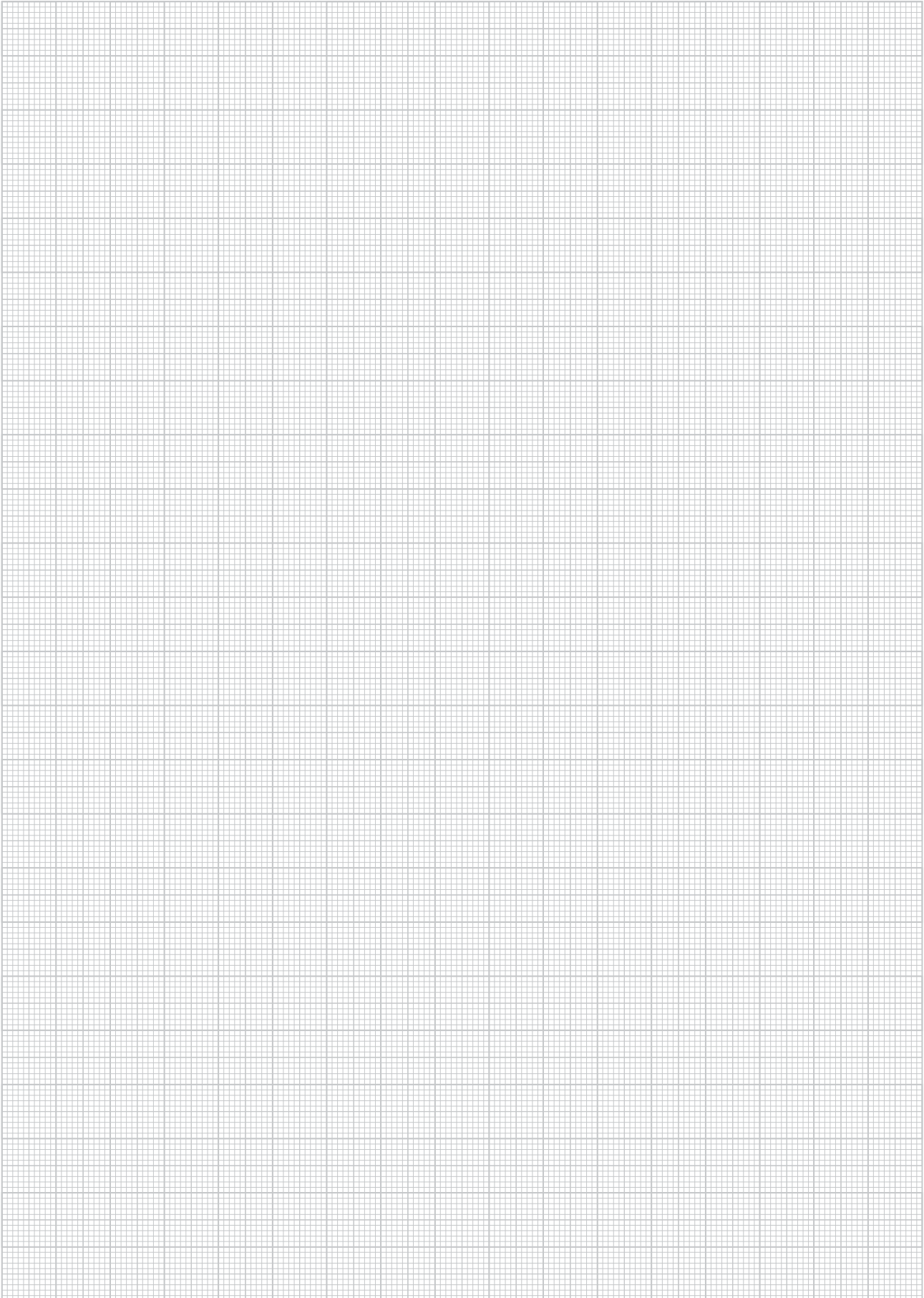


Cable Drop Out

model no.	EAN code	Weight per 100 kg
★ S GRKA 50 S	967483	16

The GRKA is a fitting to keep the cable radius secure at the drop out point. It can be installed cross- or lengthwise and attaches to the wire mesh tray without hardware. Special longholes allow fixing of cables using cable ties.





Cable Tray System

Cable Tray

Fittings

Covers

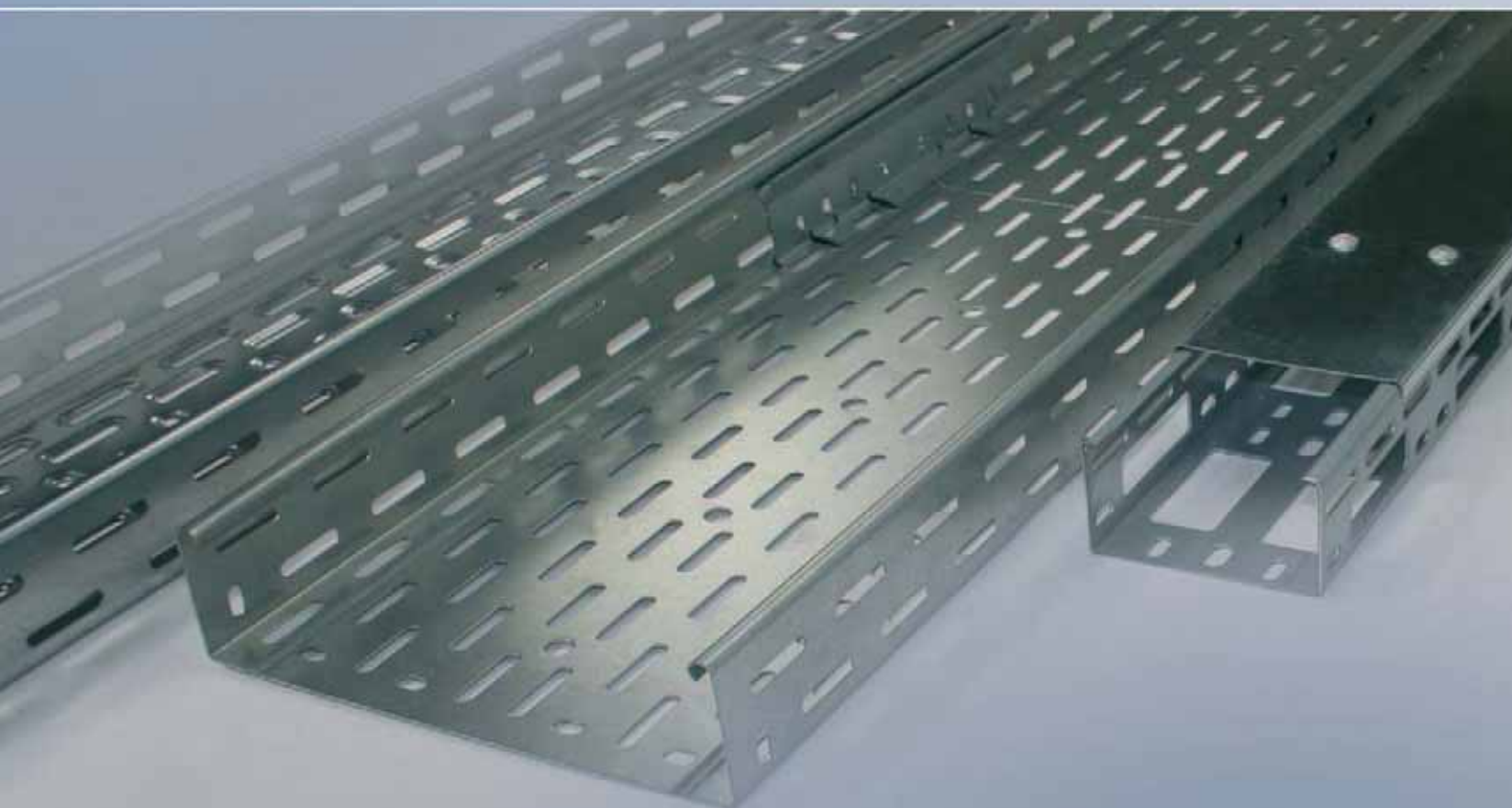
Barrier Strips

Accessories

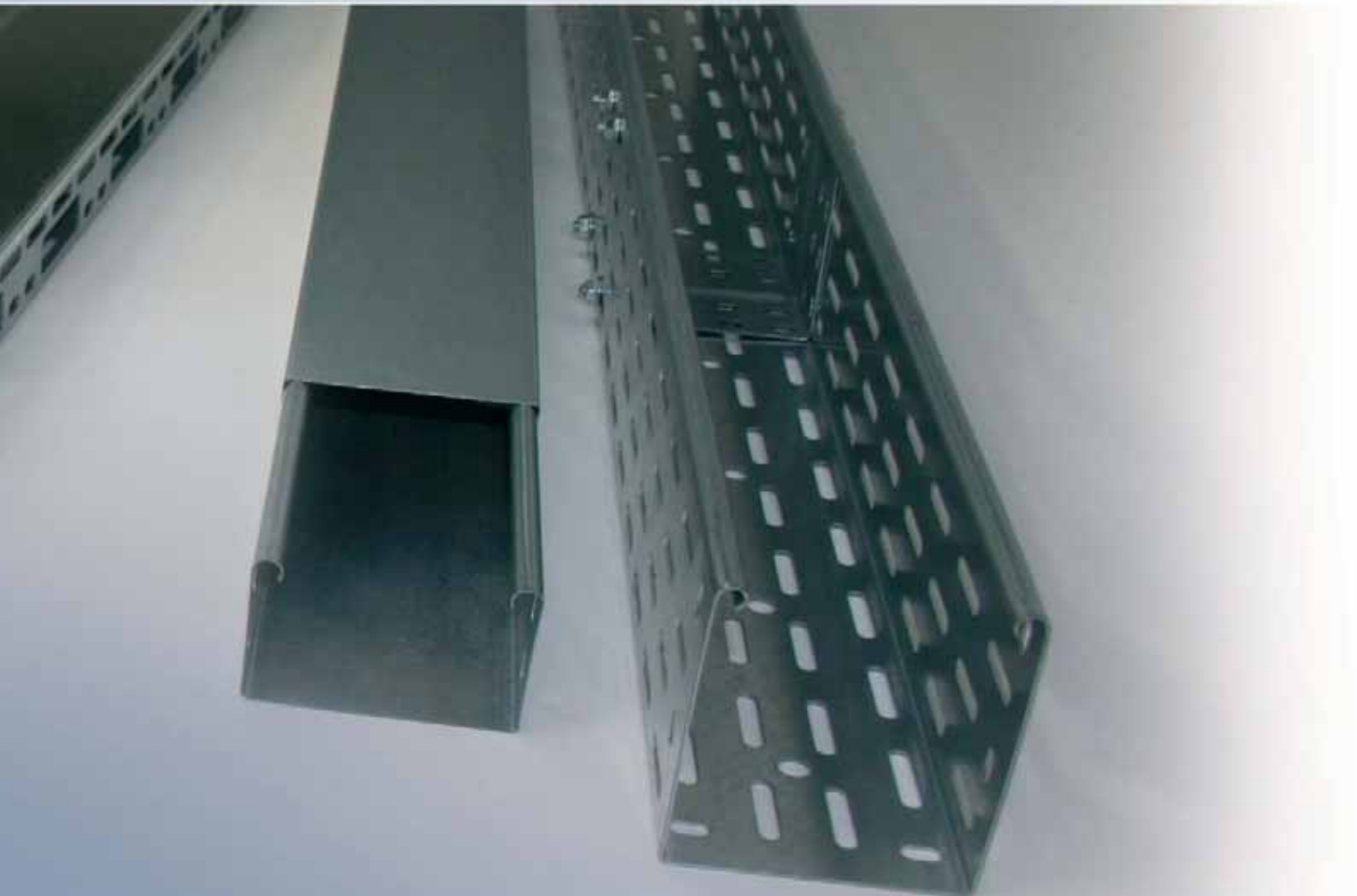


All straight sections of cable tray as well as their corresponding system components (fittings, splice plates, covers, ...) are classified by UL in accordance with NEMA VE 1 for the USA and CSA E22.2 No. 126.1 for Canada.

Please add an 'X' after the first sequence of characters in the part number to get your products labeled for UL conformity (f.e. RLV 60.200 becomes RLVX 60.200 or GRS 110.300 becomes GR SX 110.300).



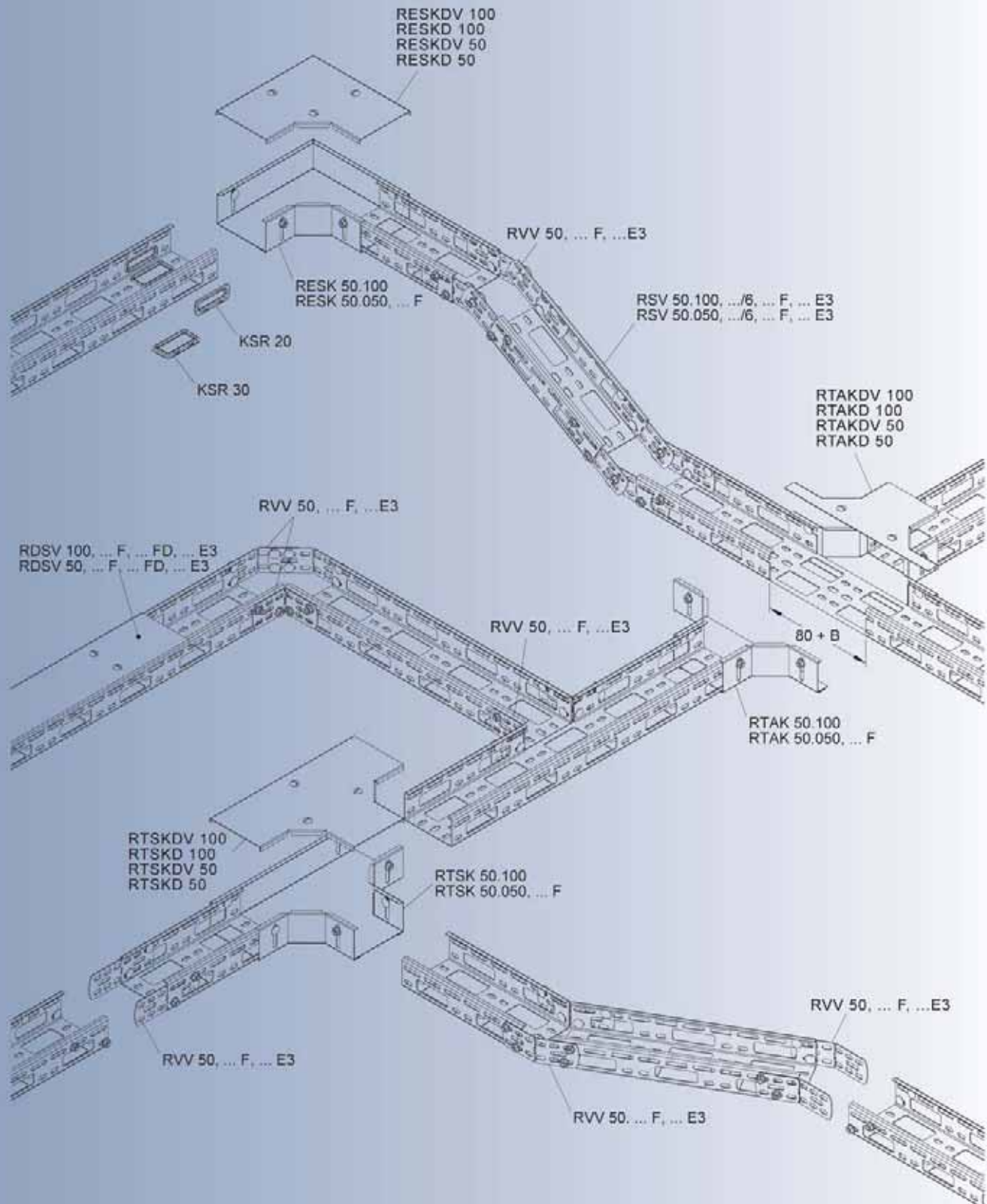
The Niedax Cable Tray is an extremely versatile and cost effective solution for your cabling needs. You can select from a wide range of tray sizes, fittings and accessories in various material thicknesses and finishes. Niedax Cable Tray is adaptable to your special needs, customized dimensions are available upon request.



Available Side Rail Heights

SYSTEM	Mini Cable Tray, c-shaped, perforated	RL	Page 142
	Mini Cable Tray, non ventilated	RLU	Page 142
	Cover for Mini Cable Tray	RD	Page 142
	Cover for Mini Cable Tray with Turnbolt Locks	RDV	Page 142
ACCESSORIES	Single-piece Splice Plate	RV	Page 143
	Universal Splice Plate	RVV 35	Page 143
	Distribution Cable Tray, c-shaped, perforated	RSV	Page 144
	Edge Protection Ring	KSR	Page 145
	Cover for Distribution Cable Trays, with Turnbolt Locks	RDSV	Page 145
	Universal Splice Plate	RVV 50	Page 145
	Extension Horizontal Tee	RTAK	Page 145
	Cover for Horizontal Tee	RTAKD	Page 145
	Cover for Horizontal Tee, with Turnbolt Locks	RTAKDV	Page 145
	Elbow 90°	RESK	Page 146
	Cover for 90° Elbow	RESKD	Page 146
	Cover for 90° Elbow, with Turnbolt Locks	RESKDV	Page 146
	Horizontal Tee	RTSK	Page 146
	Cover for Horizontal Tee, with Turnbolt Locks	RTSKDV	Page 146

System configuration of the mini cable tray 50



One-Piece Cable Tray Specifications:

A. CABLE TRAY DESIGN

1. Cable Tray shall be made of straight sections, fittings and accessories as defined in the latest NEMA standards per NEMA VE-1. Standard cable trays shall be UL classified as equipment grounding conductors.

B. MATERIAL

1. **Pre-galvanized steel.** The structural quality of the steel shall meet the minimum yield and tensile strength of the ASTM standards (ASTM A 653) with G 90 coating thickness. All cable trays to be labeled for material identification purposes.
2. **Hot dipped galvanized steel.** All trays to be hot-dipped galvanized in accordance with ASTM A123. All trays to be labeled for material identification.
3. **Stainless steel.** All trays are to be constructed of AISI type 304 or type 316 stainless steel. All trays to be labeled for material identification.

C. TRAY TYPES

1. **Ventilated cable tray.** Trays are to be fabricated from continuous roll-formed structural quality steel. Tray shall be ventilated on both the bottom of the tray and on the sides for maximum ventilation of the cables.
2. **Solid cable tray.** Trays are to be fabricated from continuous roll-formed structural quality steel. Sides are to be solid as well as bottom for maximum cable enclosure and support.
3. **Distribution cable tray.** Trays are to be fabricated from continuous roll-formed structural quality steel. Tray shall be ventilated on sides and bottom and will also contain larger openings on both bottom and side for cables to exit and enter the cable tray. Openings shall be insulated with plastic edge protection rings that are purchased separately for cable protection where needed.

D. TRAY SIZE

1. **Height:** Trays shall have an overall height of 1.4", 2", 2.3", 3.3", and 4.3" (35, 50, 60, 85 and 110 mm). Loading depth is the same as the overall height, as there are no rungs to reduce the fill of the tray.
2. **Width:** Widths shall be 2", 4", 6", 8", 12", 16", 20" and 24" (50, 100, 150, 200, 300, 400, 500 and 600 mm).
3. **Length:** Length shall be a nominal 10' or 3 meters.

E. ACCESSORIES

1. **Covers.** Covers shall be supplied as an option to protect tray cable where needed. Covers will be solid and have the option of containing three pair of turn-bolt locks to secure the covers to the lips of the cable tray. Covers can also be plain, and locks can be installed separately.
2. **Splice plates.** Splice plates shall be supplied with the straight sections of the tray and are installed with four sets of nuts/bolts that are also supplied. Splice plates fit internally to the tray and are one-piece U shaped to fit into both adjoining pieces of cable tray.
3. **Other accessories** shall be furnished as required to protect, support, and install a cable tray system. Fittings shall made of the same material as the cable tray whenever possible. Fittings can be of factory construction or may also be of a type that allows field constructed fittings.

F. LOADING CAPABILITIES

1. Cable tray shall meet the load/span class designation in accordance with NEMA VE 1 and CSA E22.2 No 126.1. Cable tray shall also meet load/span designation in accordance with IEC 61537

G. DESIGN AND MANUFACTURE

1. Cable tray design shall be manufactured by The NIEDAX Group, series RLCX/RLLCX/RLX/RLVX/RLUX, RSX/RSUX/RSVX series.

Load / Span Class Designation in accordance with NEMA VE 1 and CSA E22.2 No. 126.1

NIEDAX Series	Minimum Area		Load class in accordance to NEMA VE 1		
	(calculational) mm ² / in. ²	in accordance to NEMA VE 2 mm ² / in. ²	Rated Load Kg/m / lb./ft.	Support spacing m / ft.	Load/Span Class
RLX 35.050	87.8 / 0.14	-	32 / 21.5	2 / 6.6	-
RLX 50.050	109.6 / 0.17	-	53 / 35.6	2 / 6.6	-
RLX 50.075	154.8 / 0.24	129 / 0.2	53 / 35.6	2 / 6.6	-
RLUX 35.050	108.8 / 0.17	-	32 / 21.5	2 / 6.6	-
RLUX 50.050	130.5 / 0.20	129 / 0.2	53 / 35.6	2 / 6.6	-
RLUX 50.075	180.0 / 0.27	129 / 0.2	53 / 35.6	2 / 6.6	-
RSVX 50.050, ... E3	112.5 / 0.17	-	60 / 40.3	2 / 6.6	-
RSVX 50.100, ... E3	142.5 / 0.22	129 / 0.2	60 / 40.3	2 / 6.6	-
RLX 35.100, ... F	136.8 / 0.21	129 / 0.2	74 / 49.7	2 / 6.6	A
RLX 35.150, ... F	169.2 / 0.26	129 / 0.2	74 / 49.7	2 / 6.6	A
RLX 35.200, ... F	201.6 / 0.31	129 / 0.2	74 / 49.7	2 / 6.6	A
RLX 35.250, ... F	234.0 / 0.36	129 / 0.2	74 / 49.7	2 / 6.6	A
RLX 35.300, ... F	296.0 / 0.46	258 / 0.4	74 / 49.7	2 / 6.6	A
RLX 35.400, ... F	368.0 / 0.57	258 / 0.4	74 / 49.7	2 / 6.6	A
RLUX 35.100, ... F	174.6 / 0.27	129 / 0.2	74 / 49.7	2 / 6.6	A
RLUX 35.150, ... F	219.6 / 0.34	129 / 0.2	74 / 49.7	2 / 6.6	A
RLUX 35.200, ... F	264.6 / 0.41	258 / 0.4	74 / 49.7	2 / 6.6	A
RLUX 35.250, ... F	309.6 / 0.48	258 / 0.4	74 / 49.7	2 / 6.6	A
RLUX 35.300, ... F	354.6 / 0.55	258 / 0.4	74 / 49.7	2 / 6.6	A
RLUX 35.400, ... F	444.6 / 0.69	258 / 0.4	74 / 49.7	2 / 6.6	A

CABLE TRAY SYSTEM

Mini Cable Tray

ventilated, with return flange

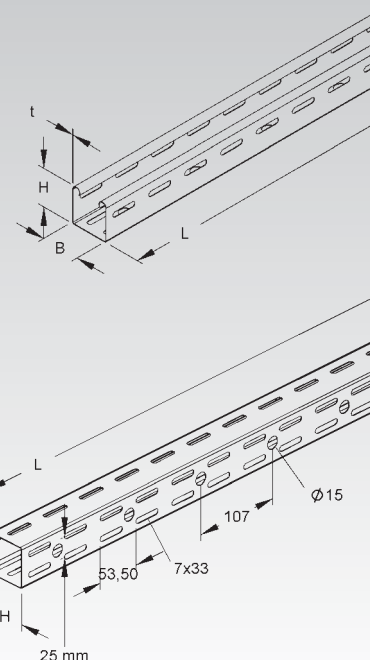
model no.	height H	width B	thick- ness t	length A	acc. incl.	EAN code	Weight per 100 m kg
	mm/Inch	mm/Inch	mm/Inch	mm/Inch			
S RL 35.050	35/1,4	50/2	0,75	3000/117	4 FLM 6x12	209309	85
S RL 35.050/6	35/1,4	50/2	0,75	6000/234	4 FLM 6x12	209903	85
S RL 50.050	50/2	50/2	0,75	3000/117	4 FLM 6x12	209507	114
S RL 50.050/6	50/2	50/2	0,75	6000/234	4 FLM 6x12	210008	114
F RL 35.050 F	35/1,4	50/2	0,75	3000/117	4 FLM 6x12 F	209453	85
F RL 50.050 F	50/2	50/2	0,75	3000/117	4 FLM 6x12 F	209644	114

Perforation allows easy mounting of splice plates and fittings.

Extra 9/16" punch holes (15 mm) for center hanging with threaded rod.

One splice plate RV... included with every straight section of cable tray.

35
50

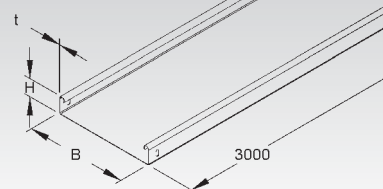


Mini Cable Tray

solid

model no.	height H	width B	thick- ness t	EAN code	Weight per 100 m kg
	mm/Inch	mm/Inch	mm/Inch		
S RLU 35.050	35/1,4	50/2	0,75	209408	85,9
S RLU 50.050	50/2	50/2	0,75	209606	103,6
S RLU 50.075	50/2	75/2,9	0,75	209804	141,3

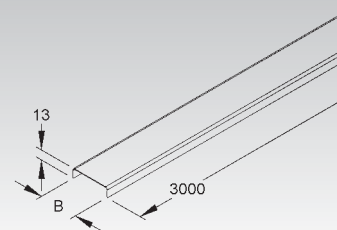
One splice plate RV 35... included with every straight section of cable tray.



Cover for Mini Cable Tray

model no.	width B	EAN code	Weight per 100 m kg
	mm/Inch		
S RD 50	50/2	260102	59
F RD 50 F	50/2	262304	59

For: mini cable trays RL 35.50, RL 50.050 and RL 50.075



Cover for Mini Cable Tray

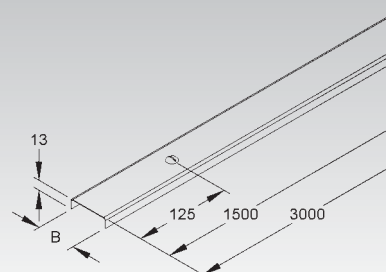
with turnbolt locks

model no.	width B	EAN code	Weight per 100 m kg
	mm/Inch		
S RDV 50	50/2	261208	59
F RDV 50 F	50/2	263400	59

For: mini cable trays RL 35.50, RL 50.050 and RL 50.075

For outdoor service covers need to be secured against windloads using heavy duty cover clamps or steel cable ties.

Please use turnbolt lock RDRS 9 or cover clamp RDHF 9 E2 for RL and RS type tray as well as for KL type ladder.



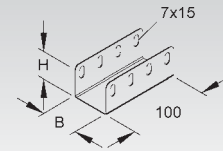
U-shaped Splice Plate

model no.	height H mm/Inch	width B mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RV 35.050	25/1	47/1,8	4 FLM 6x12	211401	7
S RV 50.050	40/1,6	47/1,8	4 FLM 6x12	211500	9
F RV 35.050 F	25/1	47/1,8	4 FLM 6x12 F	871506	98
F RV 50.050 F	40/1,6	47/1,8	4 FLM 6x12 F	837601	110

For: mini cable trays RL 35.50, RL 50.050 and RL 50.075

One RV type splice plate is always included with every straight piece of RL or RS tray but can be ordered separately for extra needs.

35
50



Universal Splice Plate

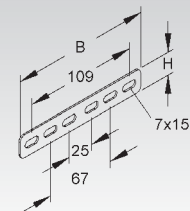
model no.	height H mm/Inch	width B mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RVV 35	22/0,9	135/5,3	4 FLM 6x12	273102	7
F RVV 35 F	22/0,9	135/5,3	4 FLM 6x12 F	273157	

Universal splice plate for straight and angled joints.

2 pieces required per joint

The all purpose splice plate can be used to make all kinds of connections and fittings like bends, tees ...

35



CABLE TRAY SYSTEM

Distribution Cable Tray

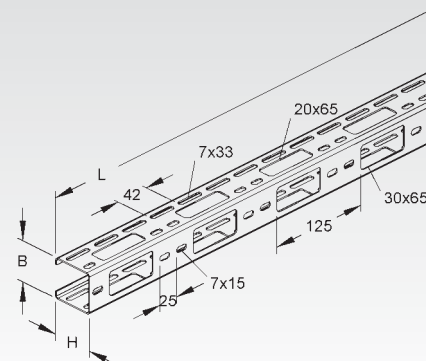
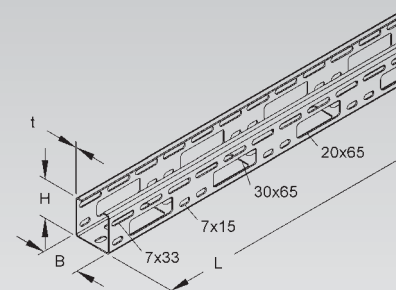
ventilated, with flange

model no.	height H	width B	thick- ness t	length A	EAN code	Weight per 100 m kg
S RSV 50.050	50/2	50/2	1,5	3000/117	257706	126,1
S RSV 50.050/6	50/2	50/2	1,5	6000/234	257751	126,1
F RSV 50.050 F	50/2	50/2	1,5	3000/117	258307	135,6
E3 RSV 50.050 E3	50/2	50/2	1,5	3000/117	333523	126,9

Bottom and side plates perforated with staggered punch holes

Square punch holes of 30x65 mm (bottom) and of 20x65 mm (side rail) are provided for cable or pipe dropouts.

50



Distribution Cable Tray

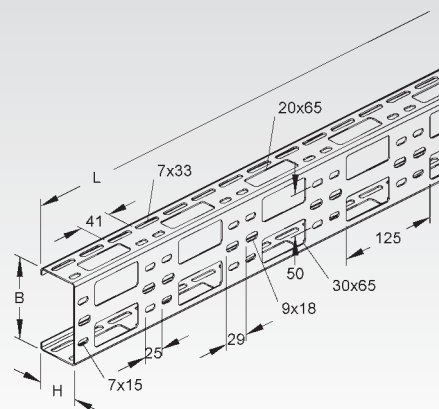
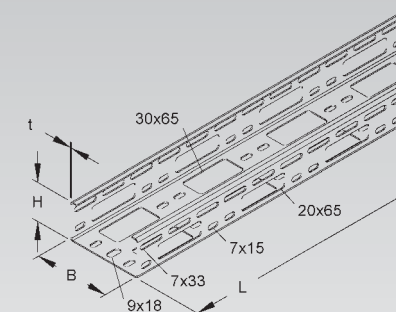
ventilated, with flange

model no.	height H	width B	thick- ness t	length A	EAN code	Weight per 100 m kg
S RSV 50.100	50/2	100/3,9	1,5	3000/117	257805	162,2
S RSV 50.100/6	50/2	100/3,9	1,5	6000/234	257850	162,2
F RSV 50.100 F	50/2	100/3,9	1,5	3000/117	258406	174,4
E3 RSV 50.100 E3	50/2	100/3,9	1,5	3000/117	333547	163,3

Bottom and side plates perforated with staggered punch holes

Square punch holes of 30x65 mm (bottom) and of 20x65 mm (side rail) are provided for cable or pipe dropouts.

50



Edge Protection Ring

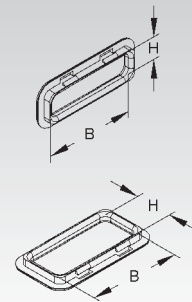
with high ultraviolet resistance

model no.	color	inside height H mm/Inch	inside dimension (B) mm/Inch	convenient for mm/Inch	EAN code	Weight per 100 kg
K04 KSR 20 A	black	14,5	58/2,3	20x65	946761	0,5
K04 KSR 30 A	black	24	58/2,3	30x65	946778	0,5

Protect cables against damages at the dropouts of tray or surface metal raceways.

To prevent accidents and injuries you must install the edge protection ring.

Box quantity for KSR 20 A + KSR 30 A 20 pieces.



Cover for Distribution Cable Tray

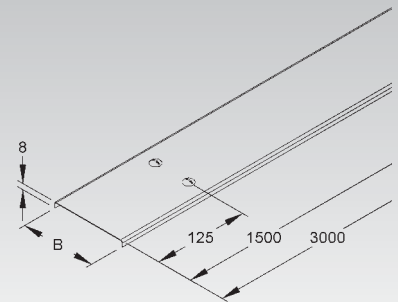
with turnbolt locks

model no.	width B mm/Inch	EAN code	Weight per 100 m kg
S RDSV 50	50/2	258109	60
S RDSV 100	100/3,9	258208	97
F RDSV 50 F	50/2	258246	60
F RDSV 100 F	100/3,9	258260	97
E3 RDSV 50 E3	50/2	860500	60
E3 RDSV 100 E3	100/3,9	860609	96

For: distribution cable tray RSV 50 and RSV 100

For outdoor service covers need to be secured against windloads using heavy duty cover clamps or steel cable ties.

Please use turnbolt lock RDRS 2 for RDSV 100 covers and RDRS 2/50 for RDSV 50 covers.

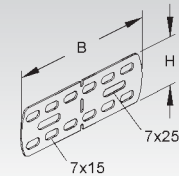


Universal Splice Plate

model no.	height H mm/Inch	width B mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RVV 50	44/1,7	135/5,3	4 FLM 6x12	258604	7
F RVV 50 F	44/1,7	135/5,3	4 FLM 6x12 F	258505	7
E3 RVV 50 E3	44/1,7	135/5,3	4 FLM 6x12 E3	335404	7

Universal splice plate for straight and angled joints.

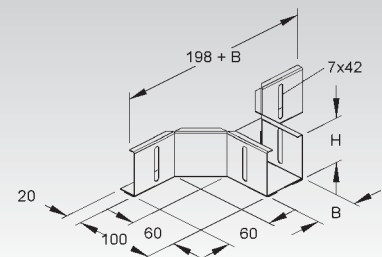
2 pieces required per joint



Extension Horizontal Tee

model no.	height H mm/Inch	inside dimension (B) mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RTAK 35.050	35/1,4	52/2	2 FLM 6x12	210602	98
S RTAK 50.050	50/2	52/2	2 FLM 6x12	210701	110
S RTAK 50.100	50/2	102/4	2 FLM 6x12	210909	135
F RTAK 35.050 F	35/1,4	52/2	2 FLM 6x12 F	893522	98
F RTAK 50.050 F	50/2	52/2	2 FLM 6x12 F	893584	110

For: cable trays RL 35.050, RL 50.050 and RL 50.100 and distribution cable trays RSV 50...



Cover for Horizontal Extension Tee

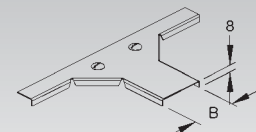
with turnbolt locks

model no.	inside dimension (B) mm/Inch	EAN code	Weight per 100 pc. kg
S RTAKDV 50	54/2,1	276905	13,2
S RTAKDV 100	104/4,1	274307	17

For: horizontal tee RTAK ... with a side rail height of 35 mm and 50 mm

For outdoor service covers need to be secured against windloads using heavy duty cover clamps or steel cable ties.

Hot-dip galvanized finish available on request.



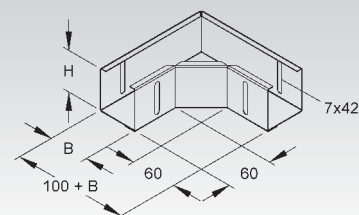
CABLE TRAY SYSTEM

Horizontal Elbow 90°

model no.	height H mm/Inch	inside dimension (B) mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RESK 35.050	35/1,4	52/2	2 FLM 6x12	210206	27,1
S RESK 50.050	50/2	52/2	2 FLM 6x12	210305	129
S RESK 50.100	50/2	102/4	2 FLM 6x12	210503	170
F RESK 35.050 F	35/1,4	52/2	2 FLM 6x12 F	893508	98
F RESK 50.050 F	50/2	52/2	2 FLM 6x12 F	893560	110

For: cable trays RL 35.050, RL 50.050 and RL 50.100 and distribution cable trays RSV 50...

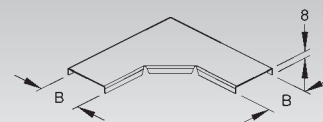
35
50



Cover for 90° Elbow

model no.	inside dimension (B) mm/Inch	EAN code	Weight per 100 pc. kg
S RESKD 50	54/2,1	265404	15,3
S RESKD 100	104/4,1	265602	30,5

For: horizontal elbow 90° for mini cable tray RESK..., with a side rail height of either 35 mm or 50 mm
hot-dip galvanized finish available on request

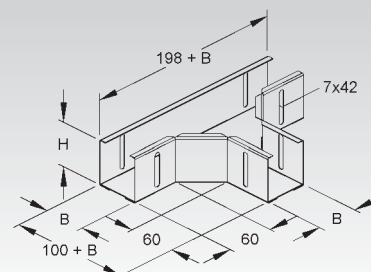


Horizontal Tee

model no.	height H mm/Inch	inside dimension (B) mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RTSK 35.050	35/1,4	52/2	4 FLM 6x12	211005	114
S RTSK 50.050	50/2	52/2	4 FLM 6x12	211104	129
S RTSK 50.100	50/2	102/4	4 FLM 6x12	211302	170
F RTSK 35.050 F	35/1,4	52/2	4 FLM 6x12 F	893546	98
F RTSK 50.050 F	50/2	52/2	4 FLM 6x12 F	893607	110

For: cable trays RL 35.050, RL 50.050 and RL 50.100 and distribution cable trays RSV 50...

35
50



Cover for Horizontal Tee

with turnbolt locks

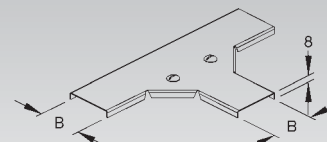
model no.	width B mm/Inch	EAN code	Weight per 100 pc. kg
S RTSKDV 50	54/2,1	274406	28,9
S RTSKDV 100	104/4,1	274604	40,1

RTSKDV 75 and 100 come with 3 turn-bolt locks for secure fixing

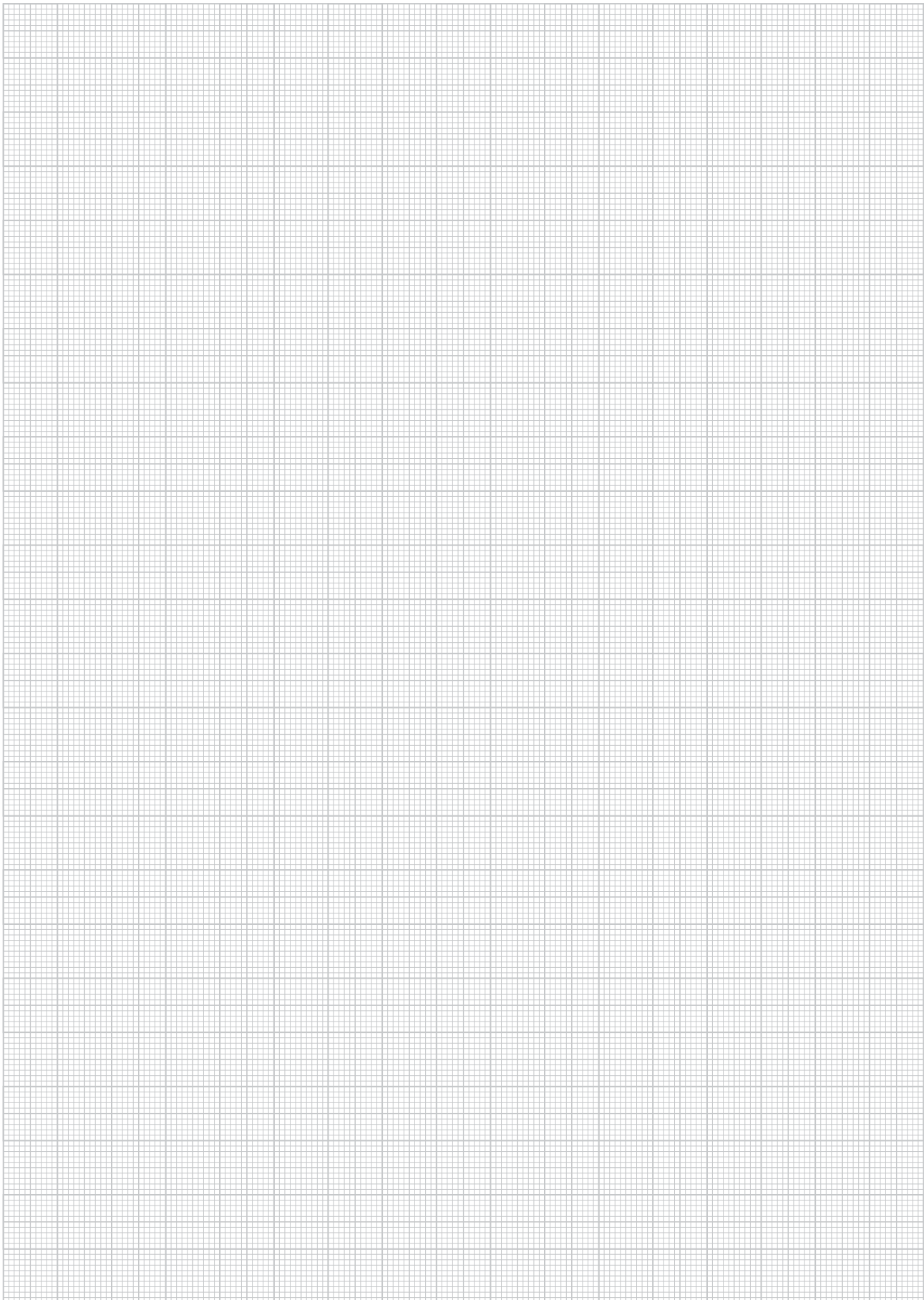
For: horizontal tee RTSK ... with a side rail height of either 35 mm or 50 mm

For outdoor service covers need to be secured against windloads using heavy duty cover clamps or steel cable ties.

Hot-dip galvanized finish available on request.



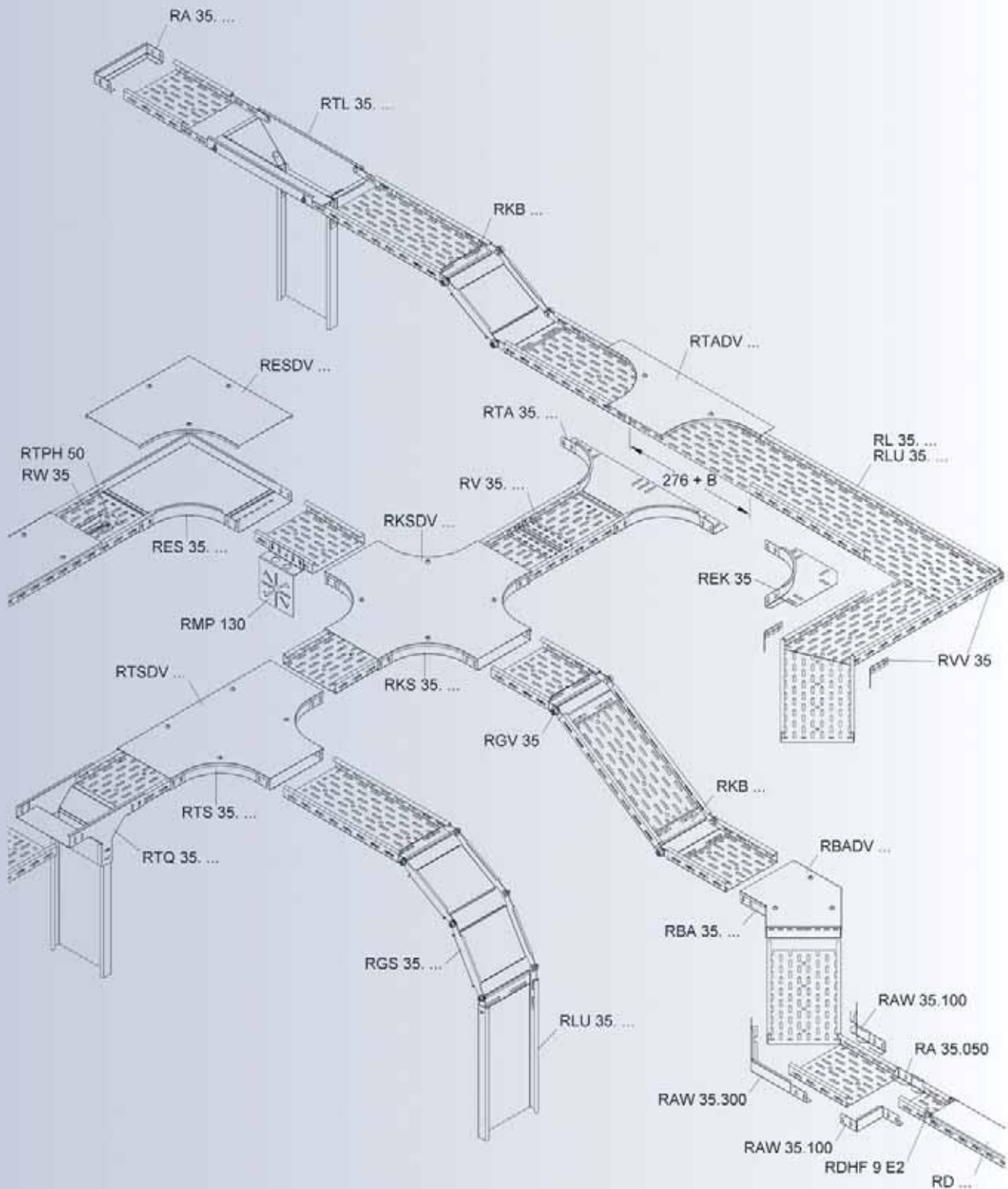
NOTES

A large rectangular area filled with a fine grid of light gray lines, intended for taking notes or drawing. The grid consists of small squares, with a slightly larger square grid pattern overlaid in the center.

Available Side Rail Heights

SYSTEM	Cable Tray, Light Version, ventilated	RL	Page 150
	Cable Tray, Light Version, non ventilated	RLU	Page 150
ACCESSORIES	Single-piece Splice Plate, u-shaped	RV	Page 150
	Universal Splice Plate	RVV 35	Page 150
	Extension Horizontal Tee	RTA	Page 151
	Elbow 45°	RBA	Page 151
	Elbow 90°	RES	Page 151
	Horizontal Tee	RTS	Page 151
	Offset Reducing Splice Plate	RA	Page 151
	Offset Reducing Splice Plate	RAW	Page 152
	Adjustable Splice Plate, vertical	RGV 35	Page 152

The covers of the cable tray system starting from page 191.



CABLE TRAY SYSTEM

Light Duty Cable Tray

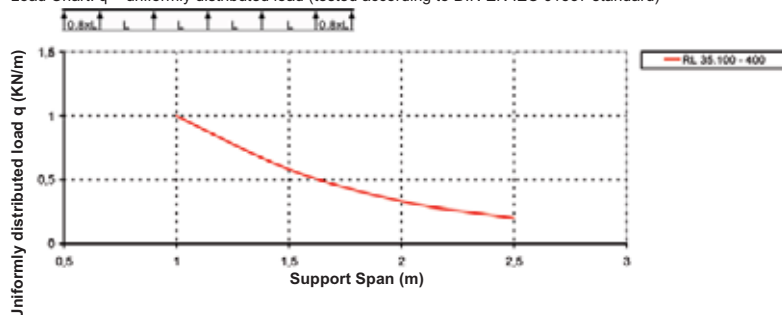
ventilated

	model no.	height H mm/Inch	width B mm/Inch	thick- ness t mm/Inch	acc. incl.	EAN code	Weight per 100 m kg
S	RL 35.100	35/1,4	100/3,9	0,9	6 FLM 6x12	211708	123
S	RL 35.150	35/1,4	150/5,8	0,9	6 FLM 6x12	211906	155

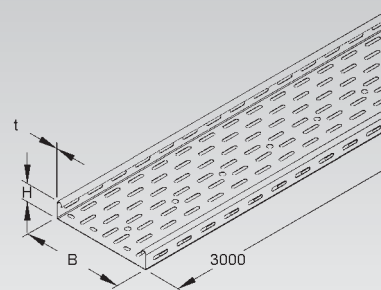
Extra 7/16" punch holes (11 mm) for center hanging with threaded rod.

One splice plate RV... included with every straight section of cable tray.

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



35



Light Duty Cable Tray

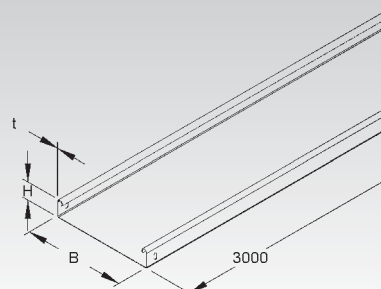
solid

	model no.	height H mm/Inch	width B mm/Inch	thick- ness t mm/Inch	acc. incl.	EAN code	Weight per 100 m kg
S	RLU 35.100	35/1,4	100/3,9	0,9	6 FLM 6x12	211807	137
S	RLU 35.150	35/1,4	150/5,8	0,9	6 FLM 6x12	212002	172

with prepunched holes for splices

One splice plate RV... included with every straight section of cable tray.

35



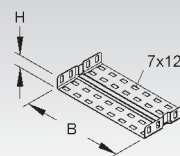
U-shaped Splice Plate

	model no.	height H mm/Inch	width B mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S	RV 35.100	24/0,9	97/3,8	6 FLM 6x12	271108	11
S	RV 35.150	24/0,9	147/5,7	6 FLM 6x12	271207	13

For: cable trays RL... and RLU...

One RV type splice plate is included with every straight piece of RL or RS tray but can be ordered separately for extra needs.

35



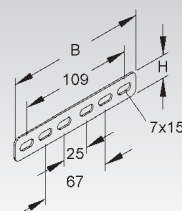
Universal Splice Plate

	model no.	height H mm/Inch	width B mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S	RVV 35	22/0,9	135/5,3	4 FLM 6x12	273102	7

Universal splice plate for straight and angled joints.

2 pieces required per joint

35

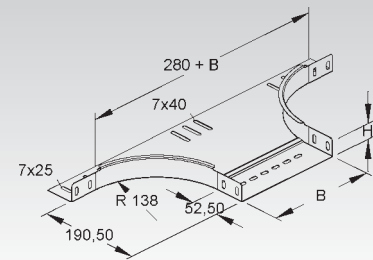


Extension Horizontal Tee

	model no.	height H mm/Inch	inside dimension (B) mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S	RTA 35.100	35/1,4	102/4	6 FLM 6x12	214907	59,9
S	RTA 35.150	35/1,4	152/5,9	6 FLM 6x12	215003	68,4

solid side plate with punched holes for splices, integrated splice for tee

35

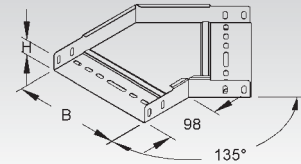


Horizontal Elbow 45°

	model no.	height H mm/Inch	inside dimension (B) mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S	RBA 35.100	35/1,4	102/4	3 FLM 6x12	213702	35,3
S	RBA 35.150	35/1,4	152/5,9	3 FLM 6x12	213801	48,7

solid side plate with integrated prepunched splice plates

35

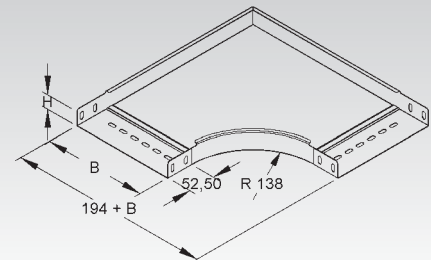


Horizontal Elbow 90°

	model no.	height H mm/Inch	inside dimension (B) mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S	RES 35.100	35/1,4	102/4	3 FLM 6x12	214303	72,3
S	RES 35.150	35/1,4	152/5,9	3 FLM 6x12	214402	98,7

solid side plate with integrated prepunched splice plates

35

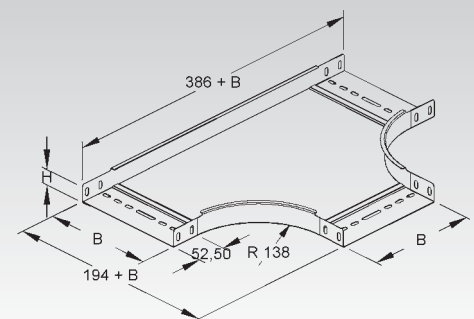


Horizontal Tee

	model no.	height H mm/Inch	inside dimension (B) mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S	RTS 35.100	35/1,4	102/4	6 FLM 6x12	216505	96,6
S	RTS 35.150	35/1,4	152/5,9	6 FLM 6x12	216604	127,6

solid side plate with integrated prepunched splice plates

35

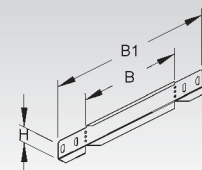


Reducer / Blind End

	model no.	height H mm/Inch	width B mm/Inch	width B1 mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S	RA 35.050	35/1,4	50/2	172	2 FLM 6x12	219315	6
S	RA 35.150	35/1,4	150/5,8	272	2 FLM 6x12	219346	10

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

35



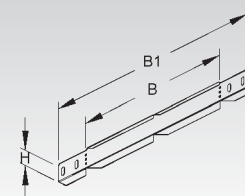
CABLE TRAY SYSTEM

Adjustable Splice / Reducer / Blind End

model no.	height H	width B	width B1	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch			
S RAW 35.100	35/1,4	100/3,9	222	2 FLM 6x12	219339	8

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

35

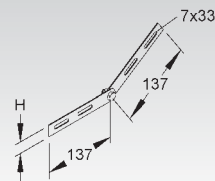


Adjustable Vertical Splice Plate

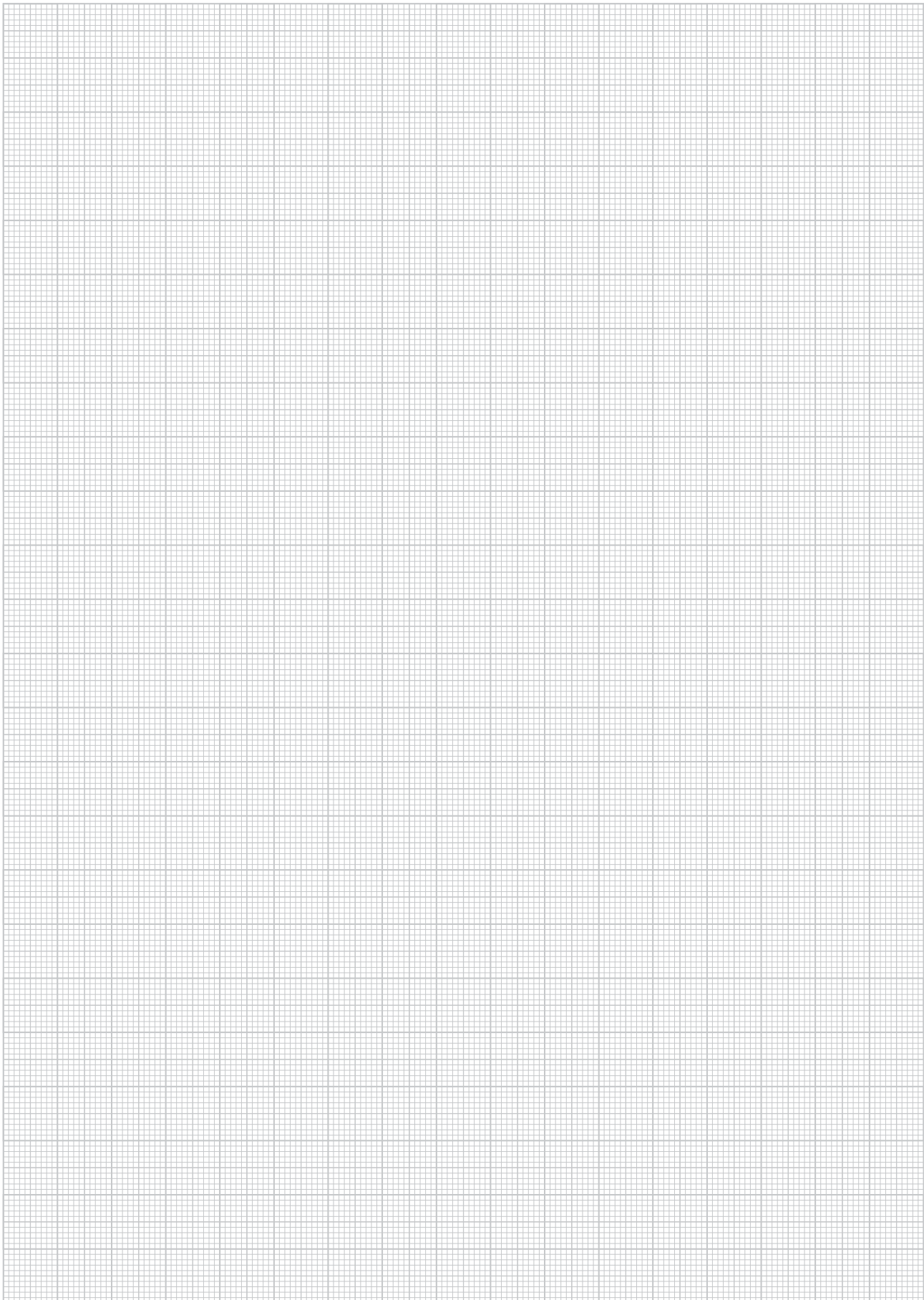
model no.	height H	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch			
S RGV 35	22/0,9	4 FLM 6x12	215607	14,4

2 pieces required per joint

35



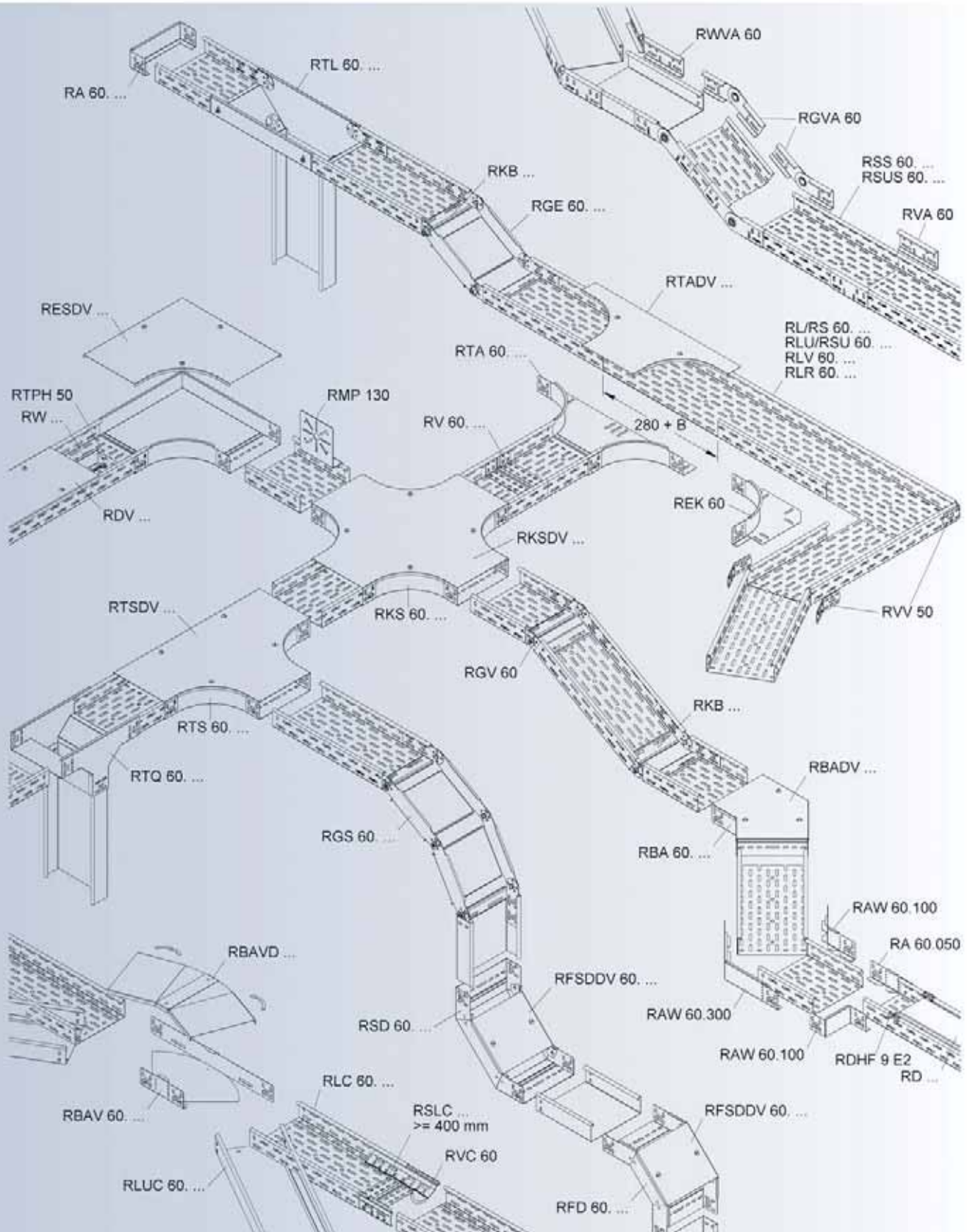
NOTES



Available Side Rail Heights

SYSTEM	Cable Tray, light version, ventilated with integrated molded splice plate	RLV	Page 157
	Cable Tray, light version, non ventilated	RLU	Page 157
	Heavy Duty Cable Tray	RS	Page 158
	Heavy Duty Cable Tray	RSU	Page 158
ACCESSORIES	U-Shaped Single-Piece Splice Plate	RV	Page 158
	Universal Splice Plate	RVV 50	Page 159
	Barrier Strip	RW 50+60	Page 159
	Splice Plate for Barrier Strip	RTV 50+60	Page 159
	Mounting Plate for Barrier Strip	RTPH 50+M6	Page 159
	Extension Horizontal Tee	RTA	Page 160
	Extension Horizontal Elbow	REK	Page 160
	Flexible Horizontal Elbow	RBAV	Page 160
	Elbow 45°	RBA	Page 161
	Elbow 90°	RES	Page 161
	Horizontal Tee	RTS	Page 161
	Horizontal Cross	RKS	Page 162
	Offset Reducing Splice Plate	RA	Page 162
	Offset Reducing Splice Plate	RAW	Page 162
	Adjustable Splice Plate, vertical	RGV	Page 162
	Hinge Piece, vertical	RGE	Page 163
	Adjustable Elbow, vertical	RGS	Page 163
	Vertical Inside Elbow	RSD	Page 163
	Vertical Outside Elbow	RFD	Page 164
	Vertical Tee Down, straight	RTL	Page 164
	Vertical Tee Down, transverse	RTQ	Page 164
	Edge Protection Plate	RKB	Page 164

The covers of the cable tray system starting from page 191.



CABLE TRAY SYSTEM

Load / Span Class Designation in accordance with NEMA VE 1 and CSA E22.2 No. 126.1

NIEDAX Series	Minimum Area		Load class in accordance to NEMA VE 1		
	(calculational) mm ² / in. ²	in accordance to NEMA VE 2 mm ² / in. ²	Rated Load Kg/m / lb./ft.	Support spacing m / ft.	Load/Span Class
RLVX 60.100, ... E3, ... E5	141 / 0.22	129 / 0.2	66 / 44.3	2 / 6.6	A
RLVX 60.150	179 / 0.28	129 / 0.2	66 / 44.3	2 / 6.6	A
RLVX 60.200, ... E3, ... E5	198 / 0.31	129 / 0.2	66 / 44.3	2 / 6.6	A
RLVX 60.300, ... E3, ... E5	216 / 0.33	129 / 0.2	66 / 44.3	2 / 6.6	A
RLVX 60.400, ... E3, ... E5	285 / 0.44	258 / 0.4	126.5 / 85.0	2 / 6.6	8A, A
RLVX 60.500	324 / 0.50	258 / 0.4	126.5 / 85.0	2 / 6.6	8A, A
RLVX 60.600	388 / 0.60	258 / 0.4	126.5 / 85.0	2 / 6.6	8A, A
RLX 60.100, ... F	169 / 0.26	129 / 0.2	93 / 62.5	2 / 6.6	A
RLX 60.150, ... F	202 / 0.31	129 / 0.2	93 / 62.5	2 / 6.6	A
RLX 60.200, ... F	234 / 0.36	129 / 0.2	93 / 62.5	2 / 6.6	A
RLX 60.250, ... F	296 / 0.46	258 / 0.4	93 / 62.5	2 / 6.6	A
RLX 60.300, ... F	332 / 0.51	258 / 0.4	93 / 62.5	2 / 6.6	A
RLX 60.400, ... F	404 / 0.63	258 / 0.4	93 / 62.5	2 / 6.6	A
RLX 60.500, ... F	476 / 0.74	452 / 0.7	93 / 62.5	2 / 6.6	A
RLX 60.600, ... F	548 / 0.85	452 / 0.7	93 / 62.5	2 / 6.6	A
RLX 60.500 E3	428 / 0.66	258 / 0.4	93 / 62.5	2 / 6.6	A
RLX 60.600 E3	493 / 0.76	452 / 0.7	93 / 62.5	2 / 6.6	A
RLUX 60.100, ... F	220 / 0.34	129 / 0.2	93 / 62.5	2 / 6.6	A
RLUX 60.150, ... F	265 / 0.41	258 / 0.4	93 / 62.5	2 / 6.6	A
RLUX 60.200, ... F	310 / 0.48	258 / 0.4	93 / 62.5	2 / 6.6	A
RLUX 60.250, ... F	394 / 0.61	258 / 0.4	93 / 62.5	2 / 6.6	A
RLUX 60.300, ... F	444 / 0.69	258 / 0.4	93 / 62.5	2 / 6.6	A
RLUX 60.400, ... F	544 / 0.84	452 / 0.7	93 / 62.5	2 / 6.6	A
RLUX 60.500, ... F	644 / 1.00	645 / 1.0	93 / 62.5	2 / 6.6	A
RLUX 60.600, ... F	744 / 1.15	645 / 1.0	93 / 62.5	2 / 6.6	A
RLUX 60.100 E3	195 / 0.30	129 / 0.2	93 / 62.5	2 / 6.6	A
RLUX 60.200 E3	275 / 0.43	258 / 0.4	93 / 62.5	2 / 6.6	A
RLUX 60.300 E3	365 / 0.56	258 / 0.4	93 / 62.5	2 / 6.6	A
RLUX 60.400 E3	435 / 0.67	258 / 0.4	93 / 62.5	2 / 6.6	A
RLUX 60.500 E3	580 / 0.90	452 / 0.7	93 / 62.5	2 / 6.6	A
RLUX 60.600 E3	670 / 1.04	645 / 1.0	93 / 62.5	2 / 6.6	A
RSX 60.100, ... F	278 / 0.43	258 / 0.4	173 / 116.3	2 / 6.6	8A, C
RSX 60.200, ... F	386 / 0.60	258 / 0.4	173 / 116.3	2 / 6.6	8A, C
RSX 60.300, ... F	494 / 0.77	452 / 0.7	173 / 116.3	2 / 6.6	8A, C
RSX 60.400, ... F	602 / 0.93	452 / 0.7	173 / 116.3	2 / 6.6	8A, C
RSX 60.500, ... F	710 / 1.10	645 / 1.0	173 / 116.3	2 / 6.6	8A, C
RSX 60.600, ... F	818 / 1.27	645 / 1.0	173 / 116.3	2 / 6.6	8A, C
RSUX 60.100, ... F	362 / 0.56	258 / 0.4	173 / 116.3	2 / 6.6	8A, C
RSUX 60.200, ... F	512 / 0.79	452 / 0.7	173 / 116.3	2 / 6.6	8A, C
RSUX 60.300, ... F	662 / 1.03	645 / 1.0	173 / 116.3	2 / 6.6	8A, C
RSUX 60.400, ... F	812 / 1.26	645 / 1.0	173 / 116.3	2 / 6.6	8A, C
RSUX 60.500, ... F	962 / 1.49	645 / 1.0	173 / 116.3	2 / 6.6	8A, C
RSUX 60.600, ... F	1112 / 1.72	968 / 1.5	173 / 116.3	2 / 6.6	8A, C
RLCX 60.100, ... F	169 / 0.26	129 / 0.2	53 / 35.6	2 / 6.6	-
RLCX 60.150, ... F	202 / 0.31	129 / 0.2	53 / 35.6	2 / 6.6	-
RLCX 60.200, ... F	234 / 0.36	129 / 0.2	53 / 35.6	2 / 6.6	-
RLCX 60.250, ... F	296 / 0.46	258 / 0.4	53 / 35.6	2 / 6.6	-
RLCX 60.300, ... F	332 / 0.51	258 / 0.4	53 / 35.6	2 / 6.6	-
RLCX 60.400, ... F	404 / 0.63	258 / 0.4	120 / 80.6	2 / 6.6	A
RLCX 60.500, ... F	476 / 0.74	452 / 0.7	120 / 80.6	2 / 6.6	A
RLCX 60.600, ... F	548 / 0.85	452 / 0.7	177 / 118.9	2 / 6.6	8A, C
RLUCX 60.100, ... F	220 / 0.34	129 / 0.2	53 / 35.6	2 / 6.6	-
RLUCX 60.150, ... F	265 / 0.41	258 / 0.4	53 / 35.6	2 / 6.6	-
RLUCX 60.200, ... F	310 / 0.48	258 / 0.4	53 / 35.6	2 / 6.6	-
RLUCX 60.250, ... F	394 / 0.61	258 / 0.4	53 / 35.6	2 / 6.6	-
RLUCX 60.300, ... F	444 / 0.69	258 / 0.4	53 / 35.6	2 / 6.6	-
RLUCX 60.400, ... F	544 / 0.84	453 / 0.7	120 / 80.6	2 / 6.6	A
RLUCX 60.500, ... F	644 / 1.00	645 / 1.0	120 / 80.6	2 / 6.6	A
RLUCX 60.600, ... F	744 / 1.15	645 / 1.0	177 / 118.9	2 / 6.6	8A, C

Light Duty Cable Tray

ventilated, with integrated molded splice plate

model no.	height H mm/Inch	width B mm/Inch	thick- ness t mm/Inch	acc. incl.	EAN code	Weight per 100 m kg
S RLV 60.100	60/2,3	100/3,9	0,75	2 FLM 6x12	257300	130
S RLV 60.150	60/2,3	150/5,8	0,75	2 FLM 6x12	257355	155
S RLV 60.200	60/2,3	200/7,8	0,75	2 FLM 6x12	257409	187
S RLV 60.300	60/2,3	300/11,7	0,75	2 FLM 6x12	252558	244
S RLV 60.400	60/2,3	400/15,6	0,9	2 FLM 6x12	257607	307
E3 RLV 60.100 E3	60/2,3	100/3,9	0,8	2 FLM 6x12 E3	331000	130
E3 RLV 60.200 E3	60/2,3	200/7,8	0,8	2 FLM 6x12 E3	331109	187
E3 RLV 60.300 E3	60/2,3	300/11,7	0,8	2 FLM 6x12 E3	331208	244
E3 RLV 60.400 E3	60/2,3	400/15,6	0,8	2 FLM 6x12 E3	331307	307
E5 RLV 60.100 E5	60/2,3	100/3,9	0,8	2 FLM 6x12 E5	729609	130
E5 RLV 60.200 E5	60/2,3	200/7,8	0,8	2 FLM 6x12 E5	729708	187
E5 RLV 60.300 E5	60/2,3	300/11,7	0,8	2 FLM 6x12 E5	729807	244
E5 RLV 60.400 E5	60/2,3	400/15,6	0,8	2 FLM 6x12 E5	729852	300

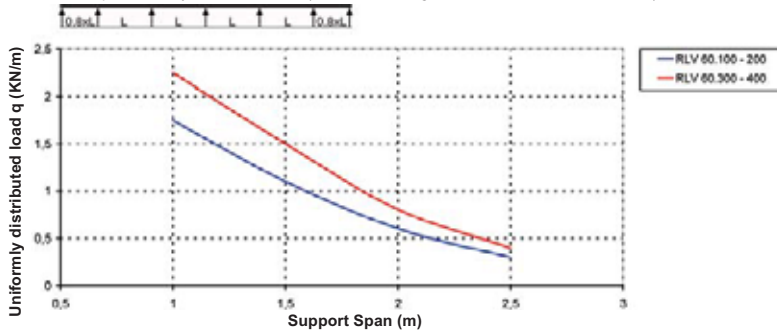
Bottom and side plates perforated with staggered punch holes.

The embedded splice plate with snap in connectors guarantees a fast and easy installation.

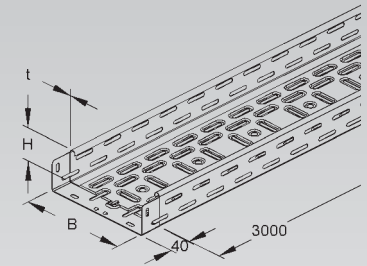
Hole pattern may vary based on width of tray. You will find more detailed information in the installation instructions.

Extra 7/16" punch holes (11 mm) for center hanging with threaded rod.

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



50



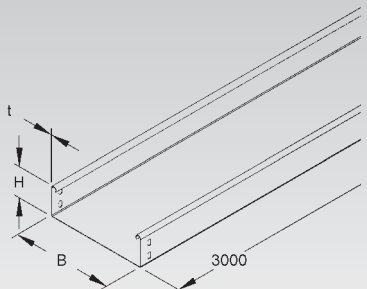
Medium Duty Cable Tray

solid

model no.	height H mm/Inch	width B mm/Inch	thick- ness t mm/Inch	acc. incl.	EAN code	Weight per 100 m kg
S RLU 60.100	60/2,3	100/3,9	0,9	8 FLM 6x12	219506	172
S RLU 60.150	60/2,3	150/5,8	0,9	8 FLM 6x12	219704	208
S RLU 60.200	60/2,3	200/7,8	0,9	8 FLM 6x12	219902	243
S RLU 60.300	60/2,3	300/11,7	1	10 FLM 6x12	220304	314
S RLU 60.400	60/2,3	400/15,6	1	12 FLM 6x12	220601	384
F RLU 60.100 F	60/2,3	100/3,9	0,9	8 FLM 6x12 F	221301	185
F RLU 60.200 F	60/2,3	200/7,8	0,9	8 FLM 6x12 F	221608	261,5
F RLU 60.300 F	60/2,3	300/11,7	1	10 FLM 6x12 F	221905	337,5
F RLU 60.400 F	60/2,3	400/15,6	1	12 FLM 6x12 F	222100	413
E3 RLU 60.100 E3	60/2,3	100/3,9	0,8	8 FLM 6x12 E3	331604	159
E3 RLU 60.200 E3	60/2,3	200/7,8	0,8	8 FLM 6x12 E3	331703	215
E3 RLU 60.300 E3	60/2,3	300/11,7	0,8	10 FLM 6x12 E3	331802	292
E3 RLU 60.400 E3	60/2,3	400/15,6	0,8	12 FLM 6x12 E3	331901	352

with prepunched holes for splices

One splice plate RV... included with every straight section of cable tray.



CABLE TRAY SYSTEM

Heavy Duty Cable Tray

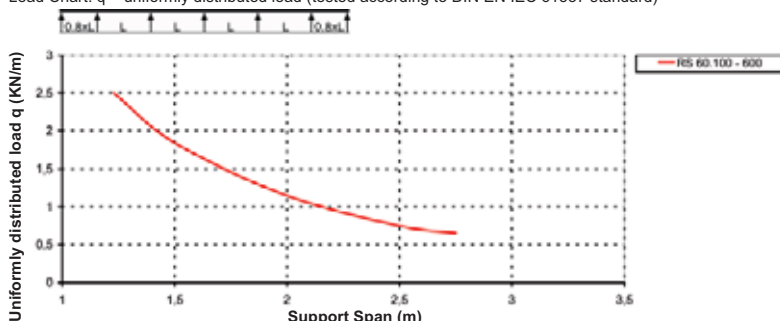
ventilated

	model no.	height H	width B	thick- ness t	acc. incl.	EAN code	Weight per 100 m kg
		mm/Inch	mm/Inch	mm/Inch			
S	RS 60.100	60/2,3	100/3,9	1,5	8 FLM 6x12	222605	260
S	RS 60.200	60/2,3	200/7,8	1,5	8 FLM 6x12	222803	350
S	RS 60.300	60/2,3	300/11,7	1,5	10 FLM 6x12	223008	464
S	RS 60.400	60/2,3	400/15,6	1,5	12 FLM 6x12	223206	560
F	RS 60.100 F	60/2,3	100/3,9	1,5	8 FLM 6x12 F	223800	260
F	RS 60.200 F	60/2,3	200/7,8	1,5	8 FLM 6x12 F	224005	350
F	RS 60.300 F	60/2,3	300/11,7	1,5	10 FLM 6x12 F	224203	464
F	RS 60.400 F	60/2,3	400/15,6	1,5	12 FLM 6x12 F	224401	560

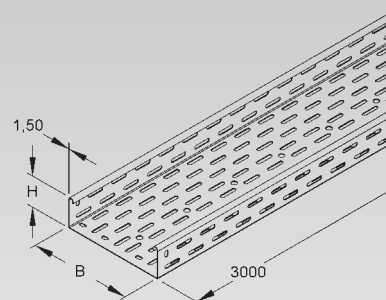
Bottom plate and side rail perforated with staggered punch holes, extra row of centric punch holes (diameter 11 mm) in the bottom of the tray.

One splice plate RV... included with every straight section of cable tray.

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



60



Heavy Duty Cable Tray

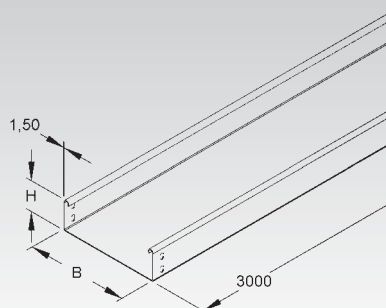
solid

	model no.	height H	width B	thick- ness t	acc. incl.	EAN code	Weight per 100 m kg
		mm/Inch	mm/Inch	mm/Inch			
S	RSU 60.100	60/2,3	100/3,9	1,5	8 FLM 6x12	222704	284
S	RSU 60.200	60/2,3	200/7,8	1,5	8 FLM 6x12	222902	402
S	RSU 60.300	60/2,3	300/11,7	1,5	10 FLM 6x12	223107	519
S	RSU 60.400	60/2,3	400/15,6	1,5	12 FLM 6x12	223305	637
F	RSU 60.100 F	60/2,3	100/3,9	1,5	8 FLM 6x12 F	223909	305,5
F	RSU 60.200 F	60/2,3	200/7,8	1,5	8 FLM 6x12 F	224104	432,5
F	RSU 60.300 F	60/2,3	300/11,7	1,5	10 FLM 6x12 F	224302	558
F	RSU 60.400 F	60/2,3	400/15,6	1,5	12 FLM 6x12 F	224500	685

with perforation for splices

One splice plate RV... included with every straight section of cable tray.

60



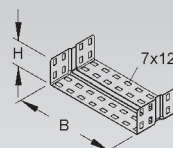
U-shaped Splice Plate

	model no.	height H	width B	acc. incl.	EAN code	Weight per 100 pc. kg
		mm/Inch	mm/Inch			
S	RV 60.100	49/1,9	96/3,7	8 FLM 6x12	271702	13
S	RV 60.150	49/1,9	146/5,7	8 FLM 6x12	271801	19
S	RV 60.200	49/1,9	196/7,6	8 FLM 6x12	271900	23
S	RV 60.300	49/1,9	296/11,5	10 FLM 6x12	272105	31
S	RV 60.400	49/1,9	396/15,4	12 FLM 6x12	272204	35
F	RV 60.100 F	49/1,9	96/3,7	8 FLM 6x12 F	540808	13
F	RV 60.150 F	49/1,9	146/5,7	8 FLM 6x12 F	540853	19
F	RV 60.200 F	49/1,9	196/7,6	8 FLM 6x12 F	540907	23
F	RV 60.300 F	49/1,9	296/11,5	10 FLM 6x12 F	541003	31
F	RV 60.400 F	49/1,9	396/15,4	12 FLM 6x12 F	541102	35
E3	RV 60.100 E3	49/1,9	96/3,7	8 FLM 6x12 E3	336159	11
E3	RV 60.200 E3	49/1,9	196/7,6	8 FLM 6x12 E3	920259	17
E3	RV 60.300 E3	49/1,9	296/11,5	10 FLM 6x12 E3	920266	24
E3	RV 60.400 E3	49/1,9	396/15,4	12 FLM 6x12 E3	920273	30

For: cable trays type RL..., RLU..., RS... and RSU...

One RV type splice plate is included with every straight piece of RL or RS tray but can be ordered separately for extra needs.

60

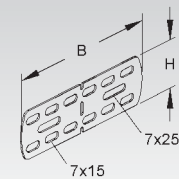


Universal Splice Plate

model no.	height H	width B	acc. incl.	EAN code	Weight per 100 pc. kg
S RVV 50	44/1,7	135/5,3	4 FLM 6x12	258604	7
F RVV 50 F	44/1,7	135/5,3	4 FLM 6x12 F	258505	7
E3 RVV 50 E3	44/1,7	135/5,3	4 FLM 6x12 E3	335404	7
E5 RVV 50 E5	44/1,7	135/5,3	4 FLM 6x12 E5	729906	7

Universal splice plate for straight and angled joints.

2 pieces required per joint



Barrier Strip

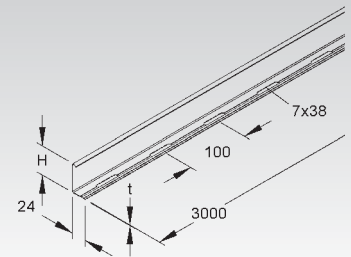
model no.	height H	thick- ness t	acc. incl.	EAN code	Weight per 100 m kg
S RW 50	47/1,8	0,75	4 FLM 6x12	224951	45
S RW 60	55/2,1	0,75	4 FLM 6x12	225002	50
F RW 60 F	55/2,1	0,75	4 FLM 6x12 F	225101	50
E3 RW 50 E3	47/1,8	0,8	4 FLM 6x12 E3	333356	45
E3 RW 60 E3	55/2,1	0,8	4 FLM 6x12 E3	333400	67
E5 RW 60 E5	55/2,1	0,8	4 FLM 6x12 E5	729401	67

To separate wires and cables of different voltage levels or with different functions.

Flange with slotted holes 7x38 mm, spacing 100 mm.



61



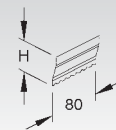
Splice Plate for Barrier Strip

model no.	height H	length A	EAN code	Weight per 100 pc. kg
E2 RTV 50 E2	46,5/1,8	80/3,1	224999	1
E2 RTV 60 E2	54,5/2,1	80/3,1	225149	1,5

For positive locking connections and proper bonding of barrier strips.



61

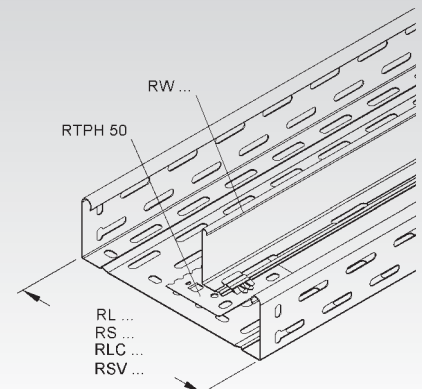
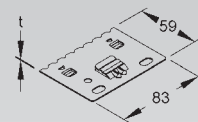


Mounting Plate for Barrier Strip

model no.	length A	width B	thick- ness t	EAN code	Weight per 100 pc. kg
S RTPH 50	83/3,2	59/2,3	0,9	231973	4

For: all perforated cable trays including distribution tray (min. width 200 mm)

The barrier strip mounting plate locks into the perforation of the tray while the barrier strip itself snaps into the latch of the plate.



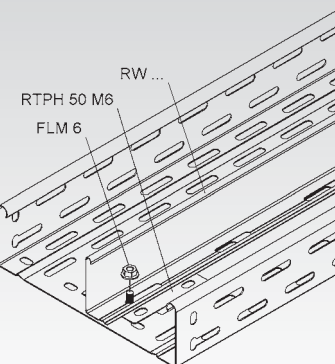
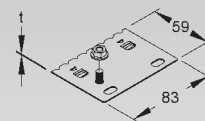
CABLE TRAY SYSTEM

Mounting Plate for Barrier Strip with M6 Stud

model no.	length A	width B	thick- ness t	EAN code	Weight per 100 kg
	mm/Inch	mm/Inch	mm/Inch		
S RTPH 50 M6	83/3,2	59/2,3	0,9	961955	3,4

For: all perforated cable trays including distribution tray (min. width 200 mm)

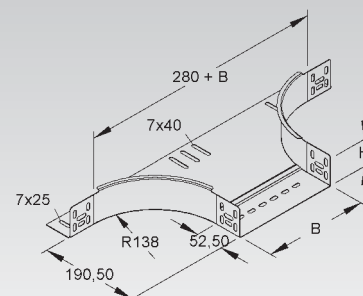
The Barrier Strip is securely fixed to the stud bolt using an M6 flange nut.



Extension Horizontal Tee

model no.	height H	inside dimension (B)	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch			
S RTA 60.100	60/2,3	102/4	10 FLM 6x12	226801	70,4
S RTA 60.150	60/2,3	152/5,9	10 FLM 6x12	226900	78,9
S RTA 60.200	60/2,3	202/7,9	10 FLM 6x12	227006	87,4
S RTA 60.300	60/2,3	302/11,8	10 FLM 6x12	227204	104,3
S RTA 60.400	60/2,3	402/15,7	10 FLM 6x12	227303	121,5
F RTA 60.100 F	60/2,3	102/4	10 FLM 6x12 F	536405	75,7
F RTA 60.150 F	60/2,3	152/5,9	10 FLM 6x12 F	536450	85
F RTA 60.200 F	60/2,3	202/7,9	10 FLM 6x12 F	536504	93,9
F RTA 60.300 F	60/2,3	302/11,8	10 FLM 6x12 F	536603	104,2
F RTA 60.400 F	60/2,3	402/15,7	10 FLM 6x12 F	536702	130,6
E3 RTA 60.100 E3	60/2,3	102/4	10 FLM 6x12 E3	333608	63
E3 RTA 60.200 E3	60/2,3	202/7,9	10 FLM 6x12 E3	333707	78,1
E3 RTA 60.300 E3	60/2,3	302/11,8	10 FLM 6x12 E3	333806	93,3
E3 RTA 60.400 E3	60/2,3	402/15,7	10 FLM 6x12 E3	333905	127,9

Solid side plate with punched holes for splices, integrated splice for tee.

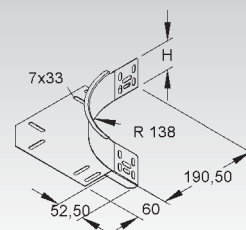


Horizontal Elbow Building Block

model no.	height H	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch			
S REK 60	60/2,3	6 FLM 6x12	227600	33
F REK 60 F	60/2,3	6 FLM 6x12 F	537006	35,4
E3 REK 60 E3	60/2,3	6 FLM 6x12 E3	334803	29,5
E5 REK 60 E5	60/2,3	6 FLM 6x12 E5	729500	33,2

For custom built 90° elbows and T-fittings.

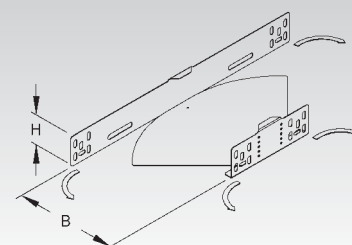
Solid side plate with punched holes for splices, overlapping bottom plate.



Flexible Horizontal Elbow 0-90°

model no.	height H	width B	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch			
S RBAV 60.100	60/2,3	100/3,9	10 FLM 6x12	923786	28
S RBAV 60.150	60/2,3	150/5,8	10 FLM 6x12	930456	51,3
S RBAV 60.200	60/2,3	200/7,8	10 FLM 6x12	923809	64
S RBAV 60.300	60/2,3	300/11,7	10 FLM 6x12	923823	112
S RBAV 60.400	60/2,3	400/15,6	10 FLM 6x12	923847	166

Solid side plate with punched holes for splices.

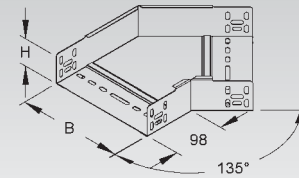


Horizontal Elbow 45°

model no.	height H mm/Inch	inside dimension (B) mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RBA 60.100	60/2,3	102/4	4 FLM 6x12	225200	42,9
S RBA 60.150	60/2,3	152/5,9	4 FLM 6x12	225309	57
S RBA 60.200	60/2,3	202/7,9	5 FLM 6x12	225408	72,8
S RBA 60.300	60/2,3	302/11,8	5 FLM 6x12	225606	109,1
S RBA 60.400	60/2,3	402/15,7	6 FLM 6x12	225705	152,1
F RBA 60.100 F	60/2,3	102/4	4 FLM 6x12 F	535200	46,2
F RBA 60.150 F	60/2,3	152/5,9	4 FLM 6x12 F	535255	46
F RBA 60.200 F	60/2,3	202/7,9	5 FLM 6x12 F	535309	78,3
F RBA 60.300 F	60/2,3	302/11,8	5 FLM 6x12 F	535408	117,4
F RBA 60.400 F	60/2,3	402/15,7	6 FLM 6x12 F	535507	163,6

Solid side plate with integrated prepunched splice plates.

60

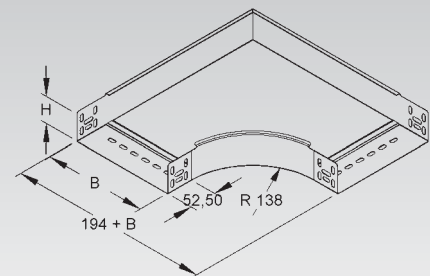


Horizontal Elbow 90°

model no.	height H mm/Inch	inside dimension (B) mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RES 60.100	60/2,3	102/4	4 FLM 6x12	226009	87,5
S RES 60.150	60/2,3	152/5,9	4 FLM 6x12	226108	115,7
S RES 60.200	60/2,3	202/7,9	5 FLM 6x12	226207	156,8
S RES 60.300	60/2,3	302/11,8	5 FLM 6x12	226405	237,7
S RES 60.400	60/2,3	402/15,7	6 FLM 6x12	226504	333,8
F RES 60.100 F	60/2,3	102/4	4 FLM 6x12 F	535804	94,1
F RES 60.150 F	60/2,3	152/5,9	4 FLM 6x12 F	535859	125
F RES 60.200 F	60/2,3	202/7,9	5 FLM 6x12 F	535903	168,6
F RES 60.300 F	60/2,3	302/11,8	5 FLM 6x12 F	536009	255,5
F RES 60.400 F	60/2,3	402/15,7	6 FLM 6x12 F	536108	358,9
E3 RES 60.100 E3	60/2,3	102/4	4 FLM 6x12 E3	333561	78,3
E3 RES 60.200 E3	60/2,3	202/7,9	5 FLM 6x12 E3	333578	131,8
E3 RES 60.300 E3	60/2,3	302/11,8	5 FLM 6x12 E3	333585	197,9
E3 RES 60.400 E3	60/2,3	402/15,7	6 FLM 6x12 E3	845200	276,4

Solid side plate with integrated prepunched splice plates.

60

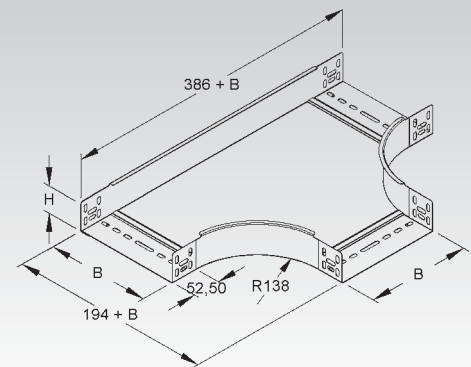


Horizontal Tee

model no.	height H mm/Inch	inside dimension (B) mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RTS 60.100	60/2,3	102/4	8 FLM 6x12	228805	115,4
S RTS 60.150	60/2,3	152/5,9	8 FLM 6x12	228904	147,2
S RTS 60.200	60/2,3	202/7,9	10 FLM 6x12	229000	195,4
S RTS 60.300	60/2,3	302/11,8	12 FLM 6x12	229208	285,2
S RTS 60.400	60/2,3	402/15,7	12 FLM 6x12	229307	390,7
F RTS 60.100 F	60/2,3	102/4	8 FLM 6x12 F	538003	124
F RTS 60.150 F	60/2,3	152/5,9	8 FLM 6x12 F	538058	159
F RTS 60.200 F	60/2,3	202/7,9	10 FLM 6x12 F	538102	210
F RTS 60.300 F	60/2,3	302/11,8	12 FLM 6x12 F	538201	306,6
F RTS 60.400 F	60/2,3	402/15,7	12 FLM 6x12 F	538300	420

Solid side plate with integrated prepunched splice plates.

60



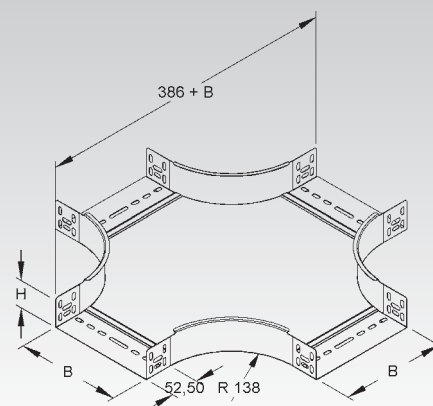
CABLE TRAY SYSTEM

Horizontal Cross

model no.	height H	inside dimension (B)	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch			
S RKS 60.100	60/2,3	102/4	12 FLM 6x12	229604	150,6
S RKS 60.150	60/2,3	152/5,9	12 FLM 6x12	229703	190,2
S RKS 60.200	60/2,3	202/7,9	15 FLM 6x12	229802	233,7
S RKS 60.300	60/2,3	302/11,8	15 FLM 6x12	230006	332,4
S RKS 60.400	60/2,3	402/15,7	18 FLM 6x12	230105	446,9
F RKS 60.100 F	60/2,3	102/4	12 FLM 6x12 F	538607	161,9
F RKS 60.150 F	60/2,3	152/5,9	4 FLM 6x12 F	538652	205
F RKS 60.200 F	60/2,3	202/7,9	15 FLM 6x12 F	538706	251,2
F RKS 60.300 F	60/2,3	302/11,8	15 FLM 6x12 F	538805	357,4
F RKS 60.400 F	60/2,3	402/15,7	18 FLM 6x12 F	538904	480,4

Solid side plate with integrated prepunched splice plates.

60

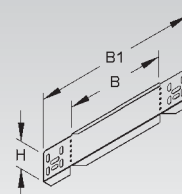


Reducer / Blind End

model no.	height H	width B	width B1	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch			
S RA 60.050	60/2,3	50/2	172	4 FLM 6x12	763108	9
S RA 60.150	60/2,3	150/5,8	272	4 FLM 6x12	763306	16
S RA 60.200	60/2,3	200/7,8	322	4 FLM 6x12	763405	19
S RA 60.350	60/2,3	350/13,6	472	4 FLM 6x12	763702	29
S RA 60.400	60/2,3	400/15,6	522	4 FLM 6x12	763801	32
F RA 60.150 F	60/2,3	150/5,8	272	4 FLM 6x12 F	928651	15
F RA 60.200 F	60/2,3	200/7,8	322	4 FLM 6x12 F	540747	19
F RA 60.400 F	60/2,3	400/15,6	522	4 FLM 6x12 F	540761	32
E3 RA 60.200 E3	60/2,3	200/7,8	322	4 FLM 6x12 E3	845347	19
E3 RA 60.400 E3	60/2,3	400/15,6	522	4 FLM 6x12 E3	845422	32

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

60

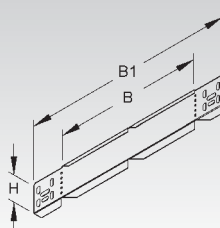


Adjustable Horizontal Splice Plate / Blind End

model no.	height H	width B	width B1	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch			
S RAW 60.100	60/2,3	100/3,9	222	4 FLM 6x12	763207	13
S RAW 60.300	60/2,3	300/11,7	422	4 FLM 6x12	763603	26
F RAW 60.100 F	60/2,3	100/3,9	222	4 FLM 6x12 F	540730	13
F RAW 60.300 F	60/2,3	300/11,7	422	4 FLM 6x12 F	540754	26
E3 RAW 60.100 E3	60/2,3	100/3,9	222	4 FLM 6x12 E3	845309	13
E3 RAW 60.300 E3	60/2,3	300/11,7	422	4 FLM 6x12 E3	845385	26

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

60

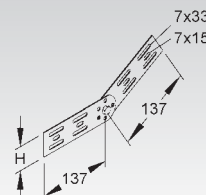


Adjustable Vertical Splice Plate

model no.	height H	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch			
S RGV 60	47/1,8	4 FLM 6x12	227709	24
F RGV 60 F	47/1,8	4 FLM 6x12 F	227808	24
E3 RGV 60 E3	47/1,8	4 FLM 6x12 E3	335008	24

2 pieces required per joint

60



Splice/Link Kit

vertical

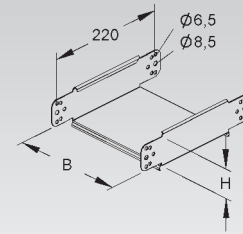
model no.	height H mm/Inch	width B mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RGE 60.100	60/2,3	100/3,9	2 SKM 8x16	231201	37
S RGE 60.150	60/2,3	150/5,8	2 SKM 8x16	231300	43
S RGE 60.200	60/2,3	200/7,8	2 SKM 8x16	231409	50
S RGE 60.300	60/2,3	300/11,7	2 SKM 8x16	231607	62
S RGE 60.400	60/2,3	400/15,6	2 SKM 8x16	231706	74
F RGE 60.100 F	60/2,3	100/3,9	2 SKM 8x16 F	539802	37
F RGE 60.150 F	60/2,3	150/5,8	2 SKM 8x16 F	539857	59
F RGE 60.200 F	60/2,3	200/7,8	2 SKM 8x16 F	539901	50
F RGE 60.300 F	60/2,3	300/11,7	2 SKM 8x16 F	540006	62
F RGE 60.400 F	60/2,3	400/15,6	2 SKM 8x16 F	540105	74

For linking sections of tray with a vertical displacement (single piece splice).

Bottom blade and siderails with rounded edges for cable protection at the joints.

For: For enlarging the radius of RGS... and RGV vertical elbows.

60



Adjustable Vertical Elbow

model no.	height H mm/Inch	width B mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RGS 60.100	60/2,3	100/3,9	14 FLM 6x12, 6 SKM 8x16	230402	93
S RGS 60.150	60/2,3	150/5,8	14 FLM 6x12, 6 SKM 8x16	230501	111
S RGS 60.200	60/2,3	200/7,8	14 FLM 6x12, 6 SKM 8x16	230600	132
S RGS 60.300	60/2,3	300/11,7	14 FLM 6x12, 6 SKM 8x16	230808	167
S RGS 60.400	60/2,3	400/15,6	14 FLM 6x12, 6 SKM 8x16	230907	206
F RGS 60.100 F	60/2,3	100/3,9	14 FLM 6x12 F, 6 SKM 8x16 F	539208	93
F RGS 60.150 F	60/2,3	150/5,8	14 FLM 6x12 F, 6 SKM 8x16 F	539253	166
F RGS 60.200 F	60/2,3	200/7,8	14 FLM 6x12 F, 6 SKM 8x16 F	539307	132
F RGS 60.300 F	60/2,3	300/11,7	14 FLM 6x12 F, 6 SKM 8x16 F	539406	167
F RGS 60.400 F	60/2,3	400/15,6	14 FLM 6x12 F, 6 SKM 8x16 F	539505	206

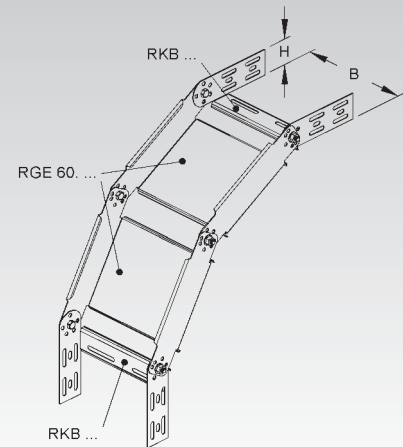
For linking sections of tray with a vertical displacement (multi piece splice).

A complete inside/outside vertical elbow kit consists of 2 x RGE..., 2 x RKB... and 2 x RGV...

Bottom blade and siderails with rounded edges for cable protection at the joints.

delivered as a kit (not assembled)

60

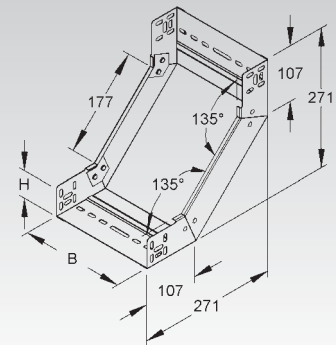


Vertical Inside Elbow 90°

model no.	height H mm/Inch	inside dimension (B) mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RSD 60.100	60/2,3	102/4	4 FLM 6x12	844418	84,9
S RSD 60.150	60/2,3	152/5,9	4 FLM 6x12	844432	102,1
S RSD 60.200	60/2,3	202/7,9	5 FLM 6x12	844449	119,3
S RSD 60.300	60/2,3	302/11,8	5 FLM 6x12	844463	153,7
S RSD 60.400	60/2,3	402/15,7	6 FLM 6x12	844470	188,1

Solid side plate with integrated prepunched splice plates.

60



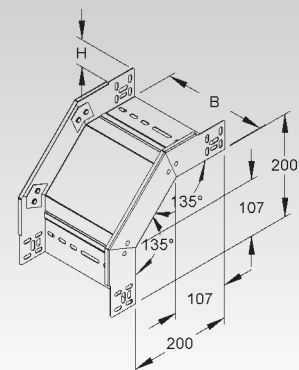
CABLE TRAY SYSTEM

Vertical Outside Elbow 90°

model no.	height H	inside dimension (B)	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch			
S RFD 60.100	60/2,3	102/4	4 FLM 6x12	844319	71,1
S RFD 60.150	60/2,3	152/5,9	4 FLM 6x12	844333	84,5
S RFD 60.200	60/2,3	202/7,9	5 FLM 6x12	844340	97,9
S RFD 60.300	60/2,3	302/11,8	5 FLM 6x12	844364	124,6
S RFD 60.400	60/2,3	402/15,7	6 FLM 6x12	844371	151,4

Solid side plate with integrated prepunched splice plates.

60

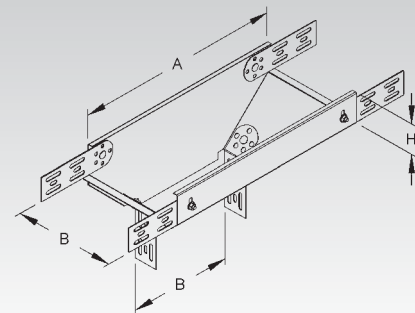


Vertical Tee Down, lengthwise

model no.	height H	width B	length A	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch			
S RTL 60.100	60/2,3	100/3,9	201	20 FLM 6x12 + 3 RGV 60	793204	100
S RTL 60.150	60/2,3	150/5,8	251	20 FLM 6x12 + 3 RGV 60	793211	119
S RTL 60.200	60/2,3	200/7,8	401	20 FLM 6x12 + 3 RGV 60	793228	200
S RTL 60.300	60/2,3	300/11,7	701	20 FLM 6x12 + 3 RGV 60	793242	438
S RTL 60.400	60/2,3	400/15,6	801	20 FLM 6x12 + 3 RGV 60	793266	557

Size of run and tap tray is identical.

60

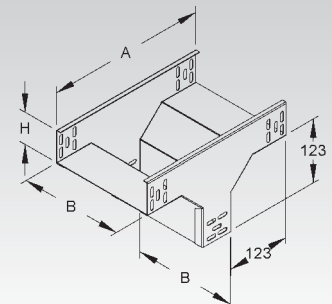


Vertical Tee Down, crosswise

model no.	height H	width B	length A	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch			
S RTQ 60.100	60/2,3	100/3,9	311	8 FLM 6x12	793327	105
S RTQ 60.150	60/2,3	150/5,8	311	8 FLM 6x12	793334	125
S RTQ 60.200	60/2,3	200/7,8	311	10 FLM 6x12	793341	145
S RTQ 60.300	60/2,3	300/11,7	311	12 FLM 6x12	793365	175
S RTQ 60.400	60/2,3	400/15,6	311	12 FLM 6x12	793389	215

Size of run and tap tray is identical.

60



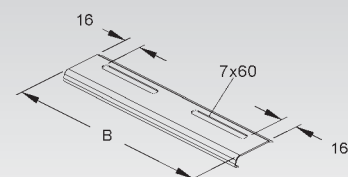
Edge Protection Plate

model no.	width B	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch			
S RKB 100	92/3,6	1 FLM 6x12	270200	5
S RKB 150	142/5,5	2 FLM 6x12	270309	8
S RKB 200	192/7,5	2 FLM 6x12	270408	10
S RKB 300	292/11,4	2 FLM 6x12	270606	15
S RKB 400	392/15,3	2 FLM 6x12	270705	20
F RKB 100 F	92/3,6	1 FLM 6x12 F	563500	5
F RKB 150 F	142/5,5	2 FLM 6x12 F	563609	8
F RKB 200 F	192/7,5	2 FLM 6x12 F	563708	10
F RKB 300 F	292/11,4	2 FLM 6x12 F	563906	15
F RKB 400 F	392/15,3	2 FLM 6x12 F	564002	20

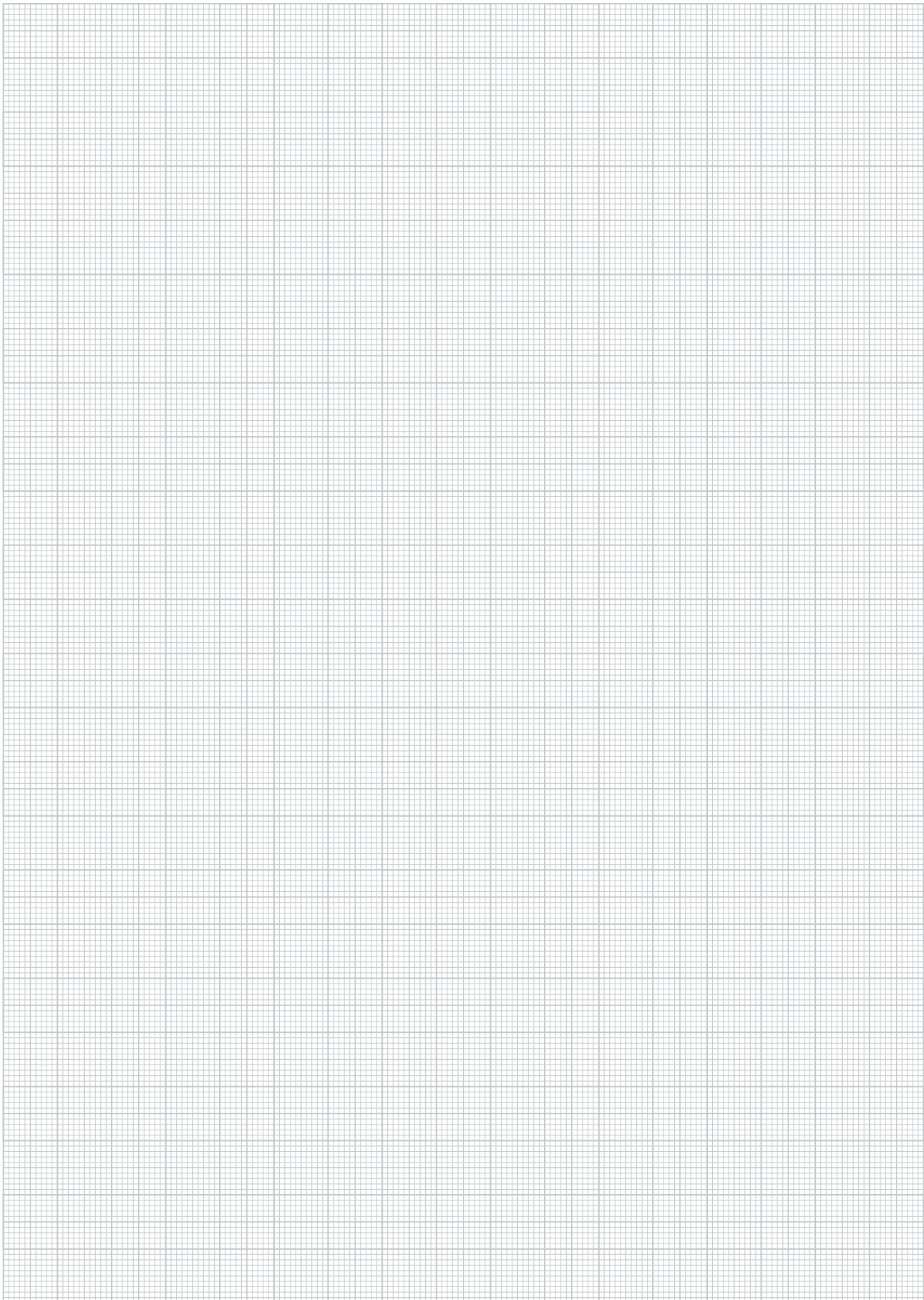
to reinforce the bottom of cable trays
with rounded edges to protect cables at the joint

To prevent accidents and injuries you must install edge protection plates! Hole pattern may vary based on width of tray. You will find more detailed information in the installation instructions.

51



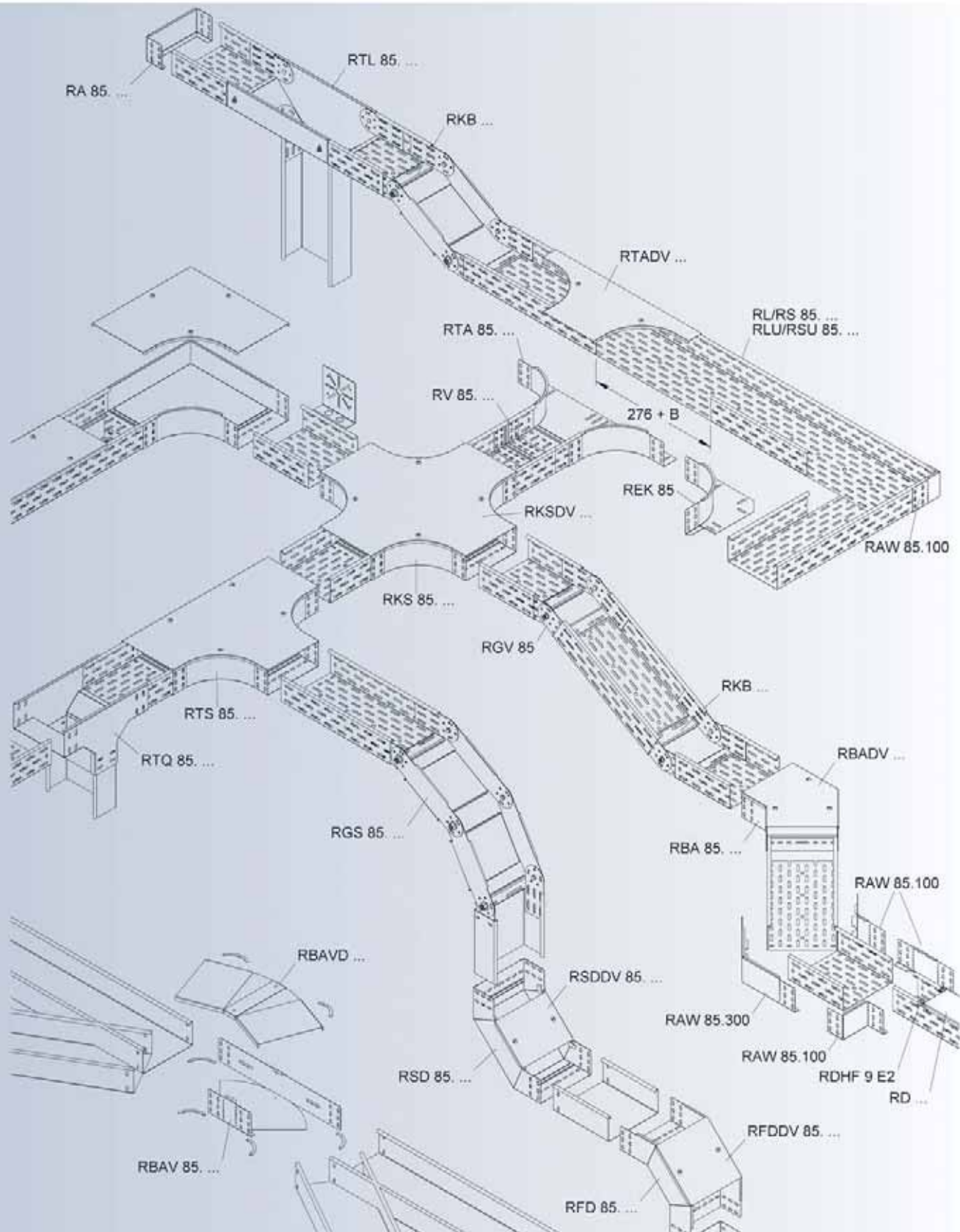
NOTES



Available Side Rail Heights

SYSTEM	Cable Tray, light version, ventilated	RL	Page 169
	Cable Tray, light version, non ventilated	RLU	Page 169
	Cable Tray, heavy duty version, ventilated	RS	Page 170
	Cable Tray, heavy duty version, non ventilated	RSU	Page 170
ACCESSORIES	Single-piece Splice Plate, u-shaped	RV	Page 171
	Barrier Strip	RW 85	Page 171
	Splice Plate for Barrier Strip	RTV 85	Page 171
	Mounting Plate for Barrier Strip	RTPH 50+M6	Page 171
	Extension Horizontal Tee	RTA	Page 172
	Extension Horizontal Elbow	REK	Page 172
	Flexible Horizontal Elbow	RBAV	Page 172
	Elbow 45°	RBA	Page 173
	Elbow 90°	RES	Page 173
	Horizontal Tee	RTS	Page 173
	Horizontal Cross	RKS	Page 174
	Offset Reducing Splice Plate	RA	Page 174
	Offset Reducing Splice Plate	RAW	Page 174
	Adjustable Splice Plate, vertical	RGV	Page 174
	Hinge Piece, vertical	RGE	Page 175
	Adjustable Elbow, vertical	RGS	Page 175
	Vertical Inside Elbow	RSD	Page 175
	Vertical Outside Elbow	RFD	Page 176
	Vertical Tee Down, straight	RTL	Page 176
	Vertical Tee Down, transverse	RTQ	Page 176
	Edge Protection Plate	RKB	Page 177

The covers of the cable tray system starting from page 191.



CABLE TRAY SYSTEM

Load / Span Class Designation in accordance with NEMA VE 1 and CSA E22.2 No. 126.1

NIEDAX Series	Minimum Area		Load class in accordance to NEMA VE 1		
	(calculational) mm ² / in. ²	in accordance to NEMA VE 2 mm ² / in. ²	Rated Load Kg/m / lb./ft.	Support spacing m / ft.	Load/Span Class
RLX 85.100, ... F	201.6 / 0.31	129 / 0.2	93 / 62.5	2 / 6.6	A
RLX 85.200, ... F	296.0 / 0.46	258 / 0.4	93 / 62.5	2 / 6.6	A
RLX 85.300, ... F	368.0 / 0.57	258 / 0.4	93 / 62.5	2 / 6.6	A
RLX 85.400, ... F	440.0 / 0.68	258 / 0.4	92 / 62.5	2 / 6.6	A
RLX 85.500, ... F	512.0 / 0.79	452 / 0.7	93 / 62.5	2 / 6.6	A
RLX 85.600, ... F	584.0 / 0.91	452 / 0.7	93 / 62.5	2 / 6.6	A
RLUX 85.100, ... F	264.6 / 0.41	258 / 0.4	93 / 62.5	2 / 6.6	A
RLUX 85.200, ... F	394.0 / 0.61	258 / 0.4	93 / 62.5	2 / 6.6	A
RLUX 85.300, ... F	494.0 / 0.77	452 / 0.7	93 / 62.5	2 / 6.6	A
RLUX 85.400, ... F	594.0 / 0.92	452 / 0.7	93 / 62.5	2 / 6.6	A
RLUX 85.500, ... F	694.0 / 1.08	645 / 1.0	93 / 62.5	2 / 6.6	A
RLUX 85.600, ... F	794.0 / 1.23	645 / 1.0	93 / 62.5	2 / 6.6	A
RSX 85.100, ... F	331.5 / 0.51	258 / 0.4	266.5 / 179	2 / 6.6	8A, 8B, 8C, A, C
RSX 85.200, ... F	439.5 / 0.68	258 / 0.4	266.5 / 179	2 / 6.6	8A, 8B, 8C, A, C
RSX 85.300, ... F	547.5 / 0.85	452 / 0.7	266.5 / 179	2 / 6.6	8A, 8B, 8C, A, C
RSX 85.400, ... F	655.5 / 1.02	645 / 1.0	266.5 / 179	2 / 6.6	8A, 8B, 8C, A, C
RSX 85.500, ... F	763.5 / 1.18	645 / 1.0	266.5 / 179	2 / 6.6	8A, 8B, 8C, A, C
RSX 85.600, ... F	871.5 / 1.35	645 / 1.0	266.5 / 179	2 / 6.6	8A, 8B, 8C, A, C
RSUX 85.100, ... F	436.5 / 0.68	258 / 0.4	266.5 / 179	2 / 6.6	8A, 8B, 8C, A, C
RSUX 85.200, ... F	586.5 / 0.91	452 / 0.7	266.5 / 179	2 / 6.6	8A, 8B, 8C, A, C
RSUX 85.300, ... F	736.5 / 1.14	645 / 1.0	266.5 / 179	2 / 6.6	8A, 8B, 8C, A, C
RSUX 85.400, ... F	886.5 / 1.37	645 / 1.0	266.5 / 179	2 / 6.6	8A, 8B, 8C, A, C
RSUX 85.500, ... F	1036.5 / 1.61	968 / 1.5	266.5 / 179	2 / 6.6	8A, 8B, 8C, A, C
RSUX 85.600, ... F	1186.5 / 1.84	968 / 1.5	266.5 / 179	2 / 6.6	8A, 8B, 8C, A, C

Medium Duty Cable Tray

ventilated

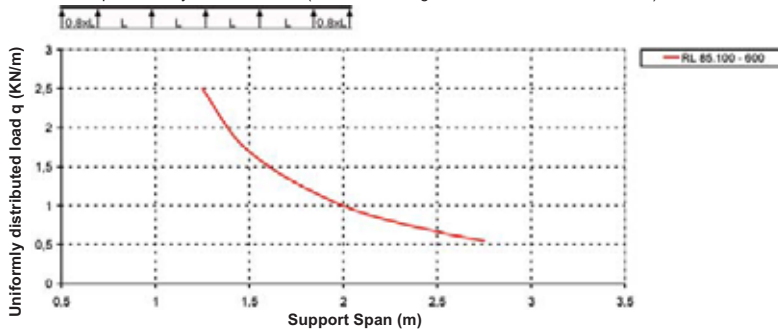
model no.	height H mm/Inch	width B mm/Inch	thick- ness t mm/Inch	acc. incl.	EAN code	Weight per 100 m kg
S RL 85.100	85/3,3	100/3,9	0,9	8 FLM 6x12	232802	207
S RL 85.200	85/3,3	200/7,8	1	10 FLM 6x12	233007	272
S RL 85.300	85/3,3	300/11,7	1	10 FLM 6x12	233205	329
S RL 85.400	85/3,3	400/15,6	1	12 FLM 6x12	233403	405
S RL 85.500	85/3,3	500/19,5	1	12 FLM 6x12	233601	474
S RL 85.600	85/3,3	600/23,4	1	12 FLM 6x12	233809	542
F RL 85.100 F	85/3,3	100/3,9	0,9	8 FLM 6x12 F	234004	207
F RL 85.200 F	85/3,3	200/7,8	1	10 FLM 6x12 F	234202	272
F RL 85.300 F	85/3,3	300/11,7	1	10 FLM 6x12 F	234400	329
F RL 85.400 F	85/3,3	400/15,6	1	12 FLM 6x12 F	234608	405
F RL 85.500 F	85/3,3	500/19,5	1	12 FLM 6x12 F	234806	474
F RL 85.600 F	85/3,3	600/23,4	1	12 FLM 6x12 F	235001	542

Bottom and side plates perforated with staggered punch holes.

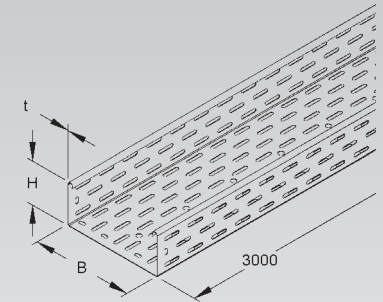
Extra 7/16" punch holes (11 mm) for center hanging with threaded rod.

One splice plate RV... included with every straight section of cable tray.

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



85



Medium Duty Cable Tray

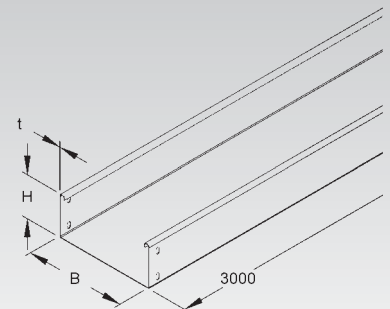
solid

model no.	height H mm/Inch	width B mm/Inch	thick- ness t mm/Inch	acc. incl.	EAN code	Weight per 100 m kg
S RLU 85.100	85/3,3	100/3,9	0,9	8 FLM 6x12	232901	208
S RLU 85.200	85/3,3	200/7,8	1	10 FLM 6x12	233106	278
S RLU 85.300	85/3,3	300/11,7	1	10 FLM 6x12	233304	349
S RLU 85.400	85/3,3	400/15,6	1	12 FLM 6x12	233502	467
S RLU 85.500	85/3,3	500/19,5	1	12 FLM 6x12	233700	545
S RLU 85.600	85/3,3	600/23,4	1	12 FLM 6x12	233908	623
F RLU 85.100 F	85/3,3	100/3,9	0,9	8 FLM 6x12 F	234103	224
F RLU 85.200 F	85/3,3	200/7,8	1	10 FLM 6x12 F	234301	299
F RLU 85.300 F	85/3,3	300/11,7	1	10 FLM 6x12 F	234509	375,5
F RLU 85.400 F	85/3,3	400/15,6	1	12 FLM 6x12 F	234707	502
F RLU 85.500 F	85/3,3	500/19,5	1	12 FLM 6x12 F	234905	586
F RLU 85.600 F	85/3,3	600/23,4	1	12 FLM 6x12 F	235100	670

with prepunched holes for splices

One splice plate RV... included with every straight section of cable tray.

85



CABLE TRAY SYSTEM

Heavy Duty Cable Tray

ventilated

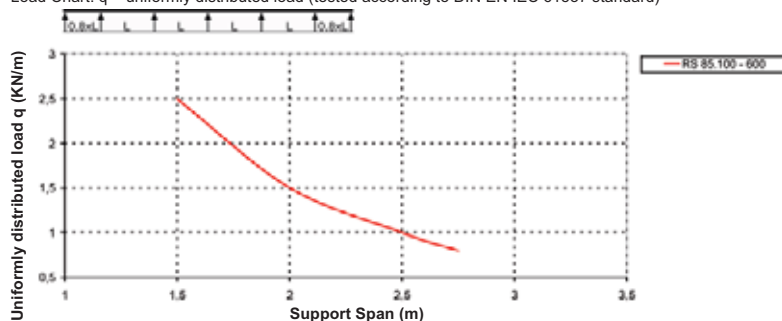
	model no.	height H	width B	thick- ness t	acc. incl.	EAN code	Weight per 100 m kg
		mm/Inch	mm/Inch	mm/Inch			
S	RS 85.100	85/3,3	100/3,9	1,5	8 FLM 6x12	235209	310
S	RS 85.200	85/3,3	200/7,8	1,5	10 FLM 6x12	235407	414
S	RS 85.300	85/3,3	300/11,7	1,5	10 FLM 6x12	235605	480
S	RS 85.400	85/3,3	400/15,6	1,5	12 FLM 6x12	235803	607
S	RS 85.500	85/3,3	500/19,5	1,5	12 FLM 6x12	236008	744
S	RS 85.600	85/3,3	600/23,4	1,5	12 FLM 6x12	236206	857
F	RS 85.100 F	85/3,3	100/3,9	1,5	8 FLM 6x12 F	236404	310
F	RS 85.200 F	85/3,3	200/7,8	1,5	10 FLM 6x12 F	236602	414
F	RS 85.300 F	85/3,3	300/11,7	1,5	10 FLM 6x12 F	236800	480
F	RS 85.400 F	85/3,3	400/15,6	1,5	12 FLM 6x12 F	237005	607
F	RS 85.500 F	85/3,3	500/19,5	1,5	12 FLM 6x12 F	237203	744
F	RS 85.600 F	85/3,3	600/23,4	1,5	12 FLM 6x12 F	237401	857

Bottom and side plates perforated with staggered punch holes.

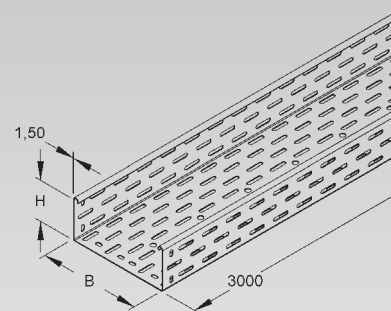
Extra 7/16" punch holes (11 mm) for center hanging with threaded rod.

One splice plate RV... included with every straight section of cable tray.

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



85



Heavy Duty Cable Tray

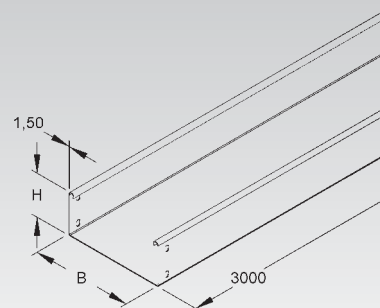
solid

	model no.	height H	width B	thick- ness t	acc. incl.	EAN code	Weight per 100 m kg
		mm/Inch	mm/Inch	mm/Inch			
S	RSU 85.100	85/3,3	100/3,9	1,5	8 FLM 6x12	235308	343
S	RSU 85.200	85/3,3	200/7,8	1,5	10 FLM 6x12	235506	460
S	RSU 85.300	85/3,3	300/11,7	1,5	10 FLM 6x12	235704	578
S	RSU 85.400	85/3,3	400/15,6	1,5	12 FLM 6x12	235902	696
S	RSU 85.500	85/3,3	500/19,5	1,5	12 FLM 6x12	236107	814
S	RSU 85.600	85/3,3	600/23,4	1,5	12 FLM 6x12	236305	932
F	RSU 85.100 F	85/3,3	100/3,9	1,5	8 FLM 6x12 F	236503	369
F	RSU 85.200 F	85/3,3	200/7,8	1,5	10 FLM 6x12 F	236701	494,5
F	RSU 85.300 F	85/3,3	300/11,7	1,5	10 FLM 6x12 F	236909	621,5
F	RSU 85.400 F	85/3,3	400/15,6	1,5	12 FLM 6x12 F	237104	748,5
F	RSU 85.500 F	85/3,3	500/19,5	1,5	12 FLM 6x12 F	237302	875
F	RSU 85.600 F	85/3,3	600/23,4	1,5	12 FLM 6x12 F	237500	1002

with prepunched holes for splices

One splice plate RV... included with every straight section of cable tray.

85



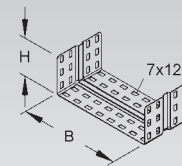
U-shaped Splice Plate

model no.	height H	width B	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch			
S RV 85.100	74/2,9	97/3,8	8 FLM 6x12	272501	23
S RV 85.200	74/2,9	197/7,7	10 FLM 6x12	272600	27
S RV 85.300	74/2,9	297/11,6	10 FLM 6x12	272709	35
S RV 85.400	74/2,9	397/15,5	12 FLM 6x12	272808	38
S RV 85.500	74/2,9	497/19,4	12 FLM 6x12	272907	51
S RV 85.600	74/2,9	597/23,3	12 FLM 6x12	273003	58
F RV 85.100 F	74/2,9	97/3,8	8 FLM 6x12 F	546800	23
F RV 85.200 F	74/2,9	197/7,7	10 FLM 6x12 F	546909	27
F RV 85.300 F	74/2,9	297/11,6	10 FLM 6x12 F	547005	35
F RV 85.400 F	74/2,9	397/15,5	12 FLM 6x12 F	547104	43
F RV 85.500 F	74/2,9	497/19,4	12 FLM 6x12 F	547203	51
F RV 85.600 F	74/2,9	597/23,3	12 FLM 6x12 F	547302	58

For: cable trays type RL, RLU, RS and RSU...

One RV type splice plate is included with every straight piece of RL or RS tray but can be ordered separately for extra needs.

85



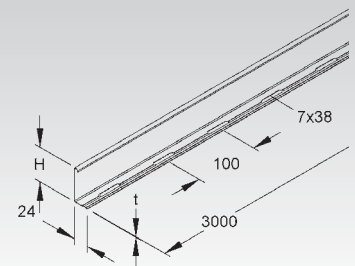
Barrier Strip

model no.	height H	thick- ness t	acc. incl.	EAN code	Weight per 100 m kg
	mm/Inch	mm/Inch			
S RW 85	80/3,1	0,9	4 FLM 6x12	237609	92
F RW 85 F	80/3,1	0,9	4 FLM 6x12 F	237708	92

To separate wires and cables of different voltage levels or with different functions.

Flange with slotted holes 7x38 mm, spacing 100 mm.

85
61

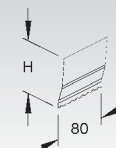


Splice Plate for Barrier Strip

model no.	height H	length A	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch		
E2 RTV 85 E2	79,5/3,1	80/3,1	237753	2

For positive locking connections and proper bonding of barrier strips.

85
61



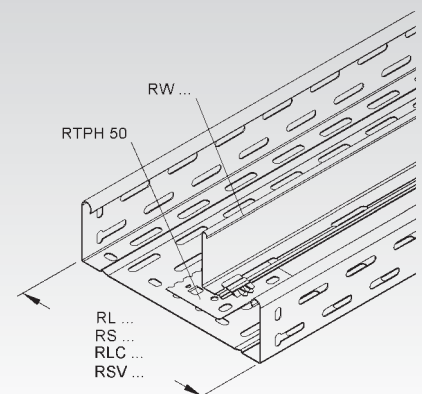
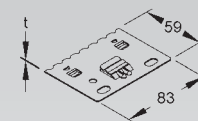
Mounting Plate for Barrier Strip

model no.	length A	width B	thick- ness t	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch		
S RTPH 50	83/3,2	59/2,3	0,9	231973	4

For: all perforated cable trays including distribution tray (min. width 200 mm)

The barrier strip mounting plate locks into the perforation of the tray while the barrier strip itself snaps into the latch of the plate.

85



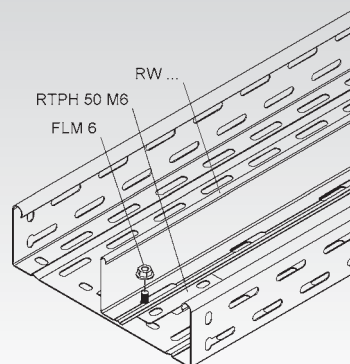
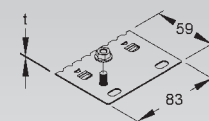
CABLE TRAY SYSTEM

Mounting Plate for Barrier Strip with M6 Stud

model no.	length A	width B	thick- ness t	EAN code	Weight per 100
	mm/Inch	mm/Inch	mm/Inch		kg
S RTPH 50 M6	83/3,2	59/2,3	0,9	961955	3,4

For: all perforated cable trays including distribution tray (min. width 200 mm)

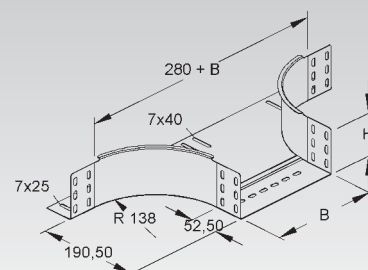
The Barrier Strip is securely fixed to the stud bolt using an M6 flange nut.



Extension Horizontal Tee

model no.	height H	inside dimension (B)	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch			
S RTA 85.100	85/3,3	102/4	10 FLM 6x12	239009	86,6
S RTA 85.200	85/3,3	202/7,9	10 FLM 6x12	239108	103,5
S RTA 85.300	85/3,3	302/11,8	10 FLM 6x12	239207	120,4
S RTA 85.400	85/3,3	402/15,7	10 FLM 6x12	239306	137,6
S RTA 85.500	85/3,3	502/19,6	10 FLM 6x12	239405	154,1
S RTA 85.600	85/3,3	602/23,5	10 FLM 6x12	239504	171
F RTA 85.100 F	85/3,3	102/4	10 FLM 6x12 F	542604	93,1
F RTA 85.200 F	85/3,3	202/7,9	10 FLM 6x12 F	542703	111,3
F RTA 85.300 F	85/3,3	302/11,8	10 FLM 6x12 F	542802	130
F RTA 85.400 F	85/3,3	402/15,7	10 FLM 6x12 F	542901	147,9
F RTA 85.500 F	85/3,3	502/19,6	10 FLM 6x12 F	543007	165,6
F RTA 85.600 F	85/3,3	602/23,5	10 FLM 6x12 F	543106	183,8

Solid side plate with punched holes for splices, integrated splice for tee.

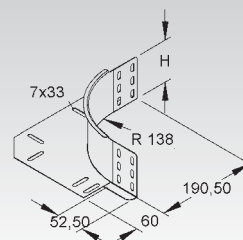


Horizontal Elbow Building Block

model no.	height H	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch			
S REK 85	85/3,3	6 FLM 6x12	239603	41,1
F REK 85 F	85/3,3	6 FLM 6x12 F	543205	44,1

For custom built 90° elbows and T-fittings.

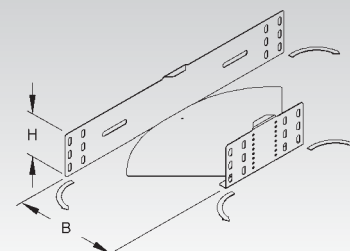
Solid side plate with punched holes for splices, overlapping bottom plate.



Flexible Horizontal Elbow 0-90°

model no.	height H	inside dimension (B)	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch			
S RBAV 85.100	85/3,3	100/3,9	10 FLM 6x12	923663	47,2
S RBAV 85.200	85/3,3	200/7,8	10 FLM 6x12	923687	76,5
S RBAV 85.300	85/3,3	300/11,7	10 FLM 6x12	923700	124,6
S RBAV 85.400	85/3,3	400/15,6	10 FLM 6x12	923724	179,4
S RBAV 85.500	85/3,3	500/19,5	14 FLM 6x12	923748	249,4
S RBAV 85.600	85/3,3	600/23,4	14 FLM 6x12	923762	330,9

Solid side plate with punched holes for splices.

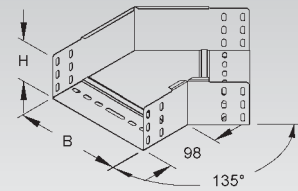


Horizontal Elbow 45°

model no.	height H mm/Inch	inside dimension (B) mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RBA 85.100	85/3,3	102/4	4 FLM 6x12	237807	54,7
S RBA 85.200	85/3,3	202/7,9	5 FLM 6x12	237906	86,7
S RBA 85.300	85/3,3	302/11,8	5 FLM 6x12	238002	125,2
S RBA 85.400	85/3,3	402/15,7	6 FLM 6x12	238101	170,4
S RBA 85.500	85/3,3	502/19,6	6 FLM 6x12	238200	221,8
S RBA 85.600	85/3,3	602/23,5	6 FLM 6x12	238309	280
F RBA 85.100 F	85/3,3	102/4	4 FLM 6x12 F	541409	58,8
F RBA 85.200 F	85/3,3	202/7,9	5 FLM 6x12 F	541508	93,2
F RBA 85.300 F	85/3,3	302/11,8	5 FLM 6x12 F	541607	134,6
F RBA 85.400 F	85/3,3	402/15,7	6 FLM 6x12 F	541706	183,1
F RBA 85.500 F	85/3,3	502/19,6	6 FLM 6x12 F	541805	238,5
F RBA 85.600 F	85/3,3	602/23,5	6 FLM 6x12 F	541904	301

Solid side plate with integrated prepunched splice plates.

85

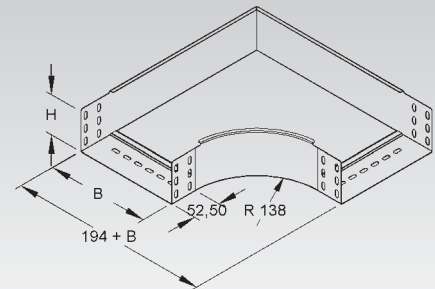


Horizontal Elbow 90°

model no.	height H mm/Inch	inside dimension (B) mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RES 85.100	85/3,3	102/4	4 FLM 6x12	238408	110,5
S RES 85.200	85/3,3	202/7,9	5 FLM 6x12	238507	185
S RES 85.300	85/3,3	302/11,8	5 FLM 6x12	238606	271,1
S RES 85.400	85/3,3	402/15,7	6 FLM 6x12	238705	372,4
S RES 85.500	85/3,3	502/19,6	6 FLM 6x12	238804	489,9
S RES 85.600	85/3,3	602/23,5	6 FLM 6x12	238903	623,1
F RES 85.100 F	85/3,3	102/4	4 FLM 6x12 F	542000	118,8
F RES 85.200 F	85/3,3	202/7,9	5 FLM 6x12 F	542109	198,9
F RES 85.300 F	85/3,3	302/11,8	5 FLM 6x12 F	542208	291,4
F RES 85.400 F	85/3,3	402/15,7	6 FLM 6x12 F	542307	400,4
F RES 85.500 F	85/3,3	502/19,6	6 FLM 6x12 F	542406	526,6
F RES 85.600 F	85/3,3	602/23,5	6 FLM 6x12 F	542505	669,8

Solid side plate with integrated prepunched splice plates.

85

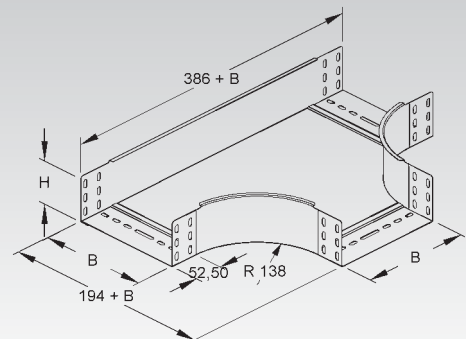


Horizontal Tee

model no.	height H mm/Inch	inside dimension (B) mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RTS 85.100	85/3,3	102/4	8 FLM 6x12	240609	143,9
S RTS 85.200	85/3,3	202/7,9	10 FLM 6x12	240708	226,5
S RTS 85.300	85/3,3	302/11,8	10 FLM 6x12	240807	318,9
S RTS 85.400	85/3,3	402/15,7	12 FLM 6x12	240906	427
S RTS 85.500	85/3,3	502/19,6	12 FLM 6x12	241002	550,8
S RTS 85.600	85/3,3	602/23,5	12 FLM 6x12	241101	690,3
F RTS 85.100 F	85/3,3	102/4	8 FLM 6x12 F	544004	154,6
F RTS 85.200 F	85/3,3	202/7,9	10 FLM 6x12 F	544103	243,4
F RTS 85.300 F	85/3,3	302/11,8	10 FLM 6x12 F	544202	342,8
F RTS 85.400 F	85/3,3	402/15,7	12 FLM 6x12 F	544301	459
F RTS 85.500 F	85/3,3	502/19,6	12 FLM 6x12 F	544400	592,1
F RTS 85.600 F	85/3,3	602/23,5	12 FLM 6x12 F	544509	742,1

Solid side plate with integrated prepunched splice plates.

85

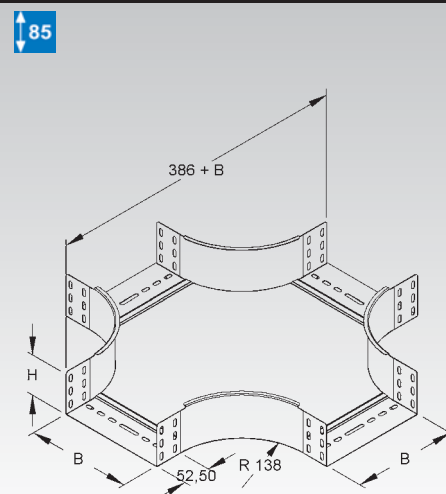


CABLE TRAY SYSTEM

Horizontal Cross

model no.	height H	inside dimension (B)	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch			
S RKS 85.100	85/3,3	102/4	12 FLM 6x12	241200	182,9
S RKS 85.200	85/3,3	202/7,9	15 FLM 6x12	241309	266
S RKS 85.300	85/3,3	302/11,8	15 FLM 6x12	241408	364,8
S RKS 85.400	85/3,3	402/15,7	18 FLM 6x12	241507	479,2
S RKS 85.500	85/3,3	502/19,6	18 FLM 6x12	241606	609,4
S RKS 85.600	85/3,3	602/23,5	18 FLM 6x12	241705	755,3
F RKS 85.100 F	85/3,3	102/4	12 FLM 6x12 F	544608	196,6
F RKS 85.200 F	85/3,3	202/7,9	15 FLM 6x12 F	544707	285,9
F RKS 85.300 F	85/3,3	302/11,8	15 FLM 6x12 F	544806	392,1
F RKS 85.400 F	85/3,3	402/15,7	18 FLM 6x12 F	544905	515,2
F RKS 85.500 F	85/3,3	502/19,6	18 FLM 6x12 F	545001	655,1
F RKS 85.600 F	85/3,3	602/23,5	18 FLM 6x12 F	545100	811,9

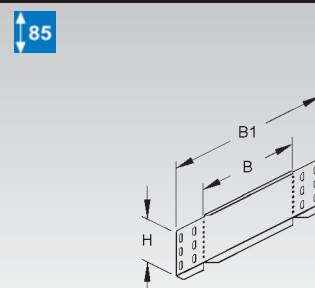
Solid side plate with integrated prepunched splice plates.



Reducer / Blind End

model no.	height H	width B	width B1	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch			
S RA 85.200	85/3,3	200/7,8	322	4 FLM 6x12	243341	25
S RA 85.400	85/3,3	400/15,6	522	4 FLM 6x12	243365	42
S RA 85.500	85/3,3	500/19,5	622	4 FLM 6x12	243372	50
S RA 85.600	85/3,3	600/23,4	722	4 FLM 6x12	243389	59
F RA 85.200 F	85/3,3	200/7,8	322	4 FLM 6x12 F	546749	25
F RA 85.400 F	85/3,3	400/15,6	522	4 FLM 6x12 F	546763	42
F RA 85.500 F	85/3,3	500/19,5	622	4 FLM 6x12 F	546770	50
F RA 85.600 F	85/3,3	600/23,4	722	4 FLM 6x12 F	546787	59

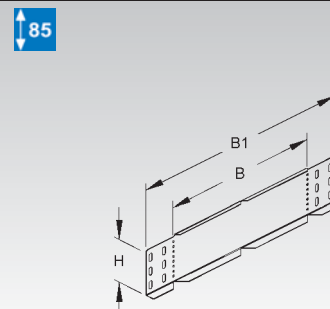
To form a closure for a dead end cable tray or for joining cable trays of different width.



Adjustable Splice / Reducer / Blind End

model no.	height H	width B	width B1	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch			
S RAW 85.100	85/3,3	100/3,9	222	4 FLM 6x12	243334	17
S RAW 85.300	85/3,3	300/11,7	422	4 FLM 6x12	243358	33
F RAW 85.100 F	85/3,3	100/3,9	222	4 FLM 6x12 F	546732	17
F RAW 85.300 F	85/3,3	300/11,7	422	4 FLM 6x12 F	546756	33

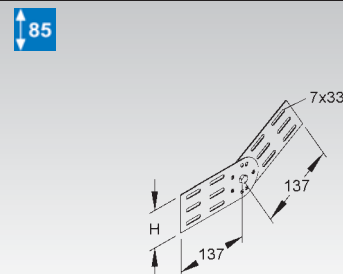
To form a closure for a dead end cable tray or for joining cable trays of different width.



Adjustable Vertical Splice Plate

model no.	height H	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch			
S RGV 85	73/2,8	4 FLM 6x12	239702	33
F RGV 85 F	73/2,8	4 FLM 6x12 F	239801	33

2 pieces required per joint



Splice/Link Kit

vertical

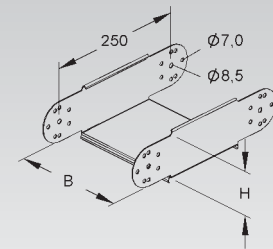
model no.	height H	width B	acc. incl.	EAN code	Weight per 100 pc. kg
S RGE 85.100	85/3,3	100/3,9	2 SKM 8x16	242405	55
S RGE 85.200	85/3,3	200/7,8	2 SKM 8x16	242504	68
S RGE 85.300	85/3,3	300/11,7	2 SKM 8x16	242603	80
S RGE 85.400	85/3,3	400/15,6	2 SKM 8x16	242702	92
S RGE 85.500	85/3,3	500/19,5	2 SKM 8x16	242801	104
S RGE 85.600	85/3,3	600/23,4	2 SKM 8x16	242900	145
F RGE 85.100 F	85/3,3	100/3,9	2 SKM 8x16 F	545803	55
F RGE 85.200 F	85/3,3	200/7,8	2 SKM 8x16 F	545902	68
F RGE 85.300 F	85/3,3	300/11,7	2 SKM 8x16 F	546008	80
F RGE 85.400 F	85/3,3	400/15,6	2 SKM 8x16 F	546107	92
F RGE 85.500 F	85/3,3	500/19,5	2 SKM 8x16 F	546206	104
F RGE 85.600 F	85/3,3	600/23,4	2 SKM 8x16 F	546305	145

For linking sections of tray with a vertical displacement (single piece splice).

Bottom blade and siderails with rounded edges for cable protection at the joints.

For: For enlarging the radius of RGS... and RGV vertical elbows.

85



Adjustable Vertical Elbow

model no.	height H	width B	acc. incl.	EAN code	Weight per 100 pc. kg
S RGS 85.100	85/3,3	100/3,9	14 FLM 6x12, 6 SKM 8x16	241804	129
S RGS 85.200	85/3,3	200/7,8	14 FLM 6x12, 6 SKM 8x16	241903	168
S RGS 85.300	85/3,3	300/11,7	14 FLM 6x12, 6 SKM 8x16	242009	203
S RGS 85.400	85/3,3	400/15,6	14 FLM 6x12, 6 SKM 8x16	242108	242
S RGS 85.500	85/3,3	500/19,5	14 FLM 6x12, 6 SKM 8x16	242207	279
S RGS 85.600	85/3,3	600/23,4	14 FLM 6x12, 6 SKM 8x16	242306	375
F RGS 85.100 F	85/3,3	100/3,9	14 FLM 6x12 F, 6 SKM 8x16 F	545209	129
F RGS 85.200 F	85/3,3	200/7,8	14 FLM 6x12 F, 6 SKM 8x16 F	545308	168
F RGS 85.300 F	85/3,3	300/11,7	14 FLM 6x12 F, 6 SKM 8x16 F	545407	203
F RGS 85.400 F	85/3,3	400/15,6	14 FLM 6x12 F, 6 SKM 8x16 F	545506	242
F RGS 85.500 F	85/3,3	500/19,5	14 FLM 6x12 F, 6 SKM 8x16 F	545605	279
F RGS 85.600 F	85/3,3	600/23,4	14 FLM 6x12 F, 6 SKM 8x16 F	545704	375

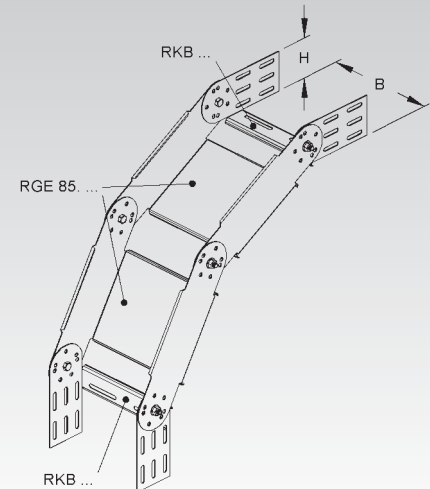
For linking sections of tray with a vertical displacement (multi piece splice).

A complete inside/outside vertical elbow kit consists of 2 x RGE..., 2 x RKB... and 2 x RGV...

Bottom blade and siderails with rounded edges for cable protection at the joints.

delivered as a kit (not assembled)

85

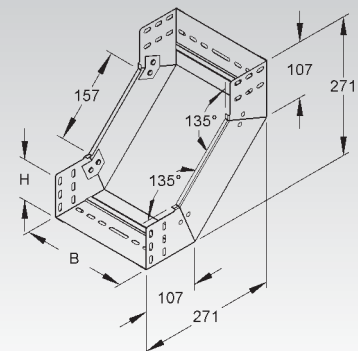


Vertical Inside Elbow 90°

model no.	height H	inside dimension (B)	acc. incl.	EAN code	Weight per 100 pc. kg
S RSD 85.100	85/3,3	102/4	4 FLM 6x12	928088	96
S RSD 85.200	85/3,3	202/7,9	5 FLM 6x12	928101	130
S RSD 85.300	85/3,3	302/11,8	5 FLM 6x12	928125	165
S RSD 85.400	85/3,3	402/15,7	6 FLM 6x12	928149	200
S RSD 85.500	85/3,3	502/19,6	6 FLM 6x12	928163	234
S RSD 85.600	85/3,3	602/23,5	6 FLM 6x12	928187	269

Solid side plate with integrated prepunched splice plates.

85



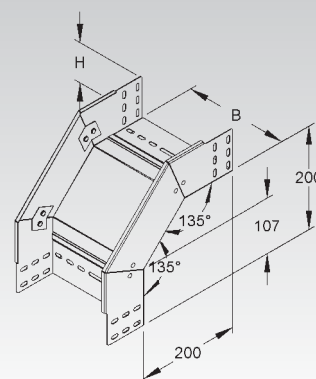
CABLE TRAY SYSTEM

Vertical Outside Elbow 90°

	model no.	height H	inside dimension (B)	acc. incl.	EAN code	Weight per 100 pc. kg
		mm/Inch	mm/Inch			
S	RFD 85.100	85/3,3	102/4	4 FLM 6x12	927609	94
S	RFD 85.200	85/3,3	202/7,9	5 FLM 6x12	927623	120
S	RFD 85.300	85/3,3	302/11,8	5 FLM 6x12	927647	147
S	RFD 85.400	85/3,3	402/15,7	6 FLM 6x12	927661	174
S	RFD 85.500	85/3,3	502/19,6	6 FLM 6x12	927685	200
S	RFD 85.600	85/3,3	602/23,5	6 FLM 6x12	927708	227

Solid side plate with integrated prepunched splice plates.

85

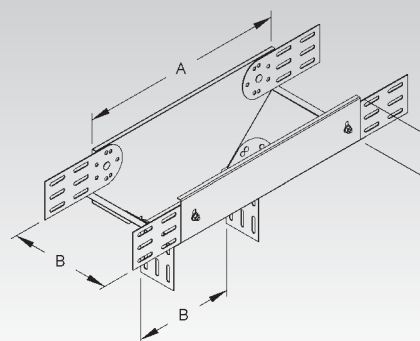


Vertical Tee Down, lengthwise

	model no.	height H	width B	length A	acc. incl.	EAN code	Weight per 100 pc. kg
		mm/Inch	mm/Inch	mm/Inch			
S	RTL 85.100	85/3,3	100/3,9	201	20 FLM 6x12 + 3 RGV 85	793501	137
S	RTL 85.200	85/3,3	200/7,8	401	20 FLM 6x12 + 3 RGV 85	793525	244
S	RTL 85.300	85/3,3	300/11,7	701	20 FLM 6x12 + 3 RGV 85	793549	493
S	RTL 85.400	85/3,3	400/15,6	801	20 FLM 6x12 + 3 RGV 85	793563	614
S	RTL 85.500	85/3,3	500/19,5	901	20 FLM 6x12 + 3 RGV 85	793587	750
S	RTL 85.600	85/3,3	600/23,4	1001	20 FLM 6x12 + 3 RGV 85	793600	903

Size of run and tap tray is identical.

85

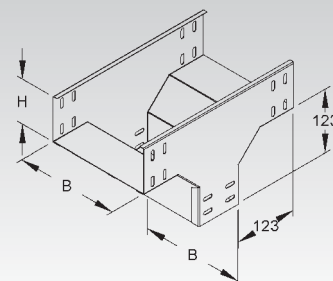


Vertical Tee Down, crosswise

	model no.	height H	width B	length A	acc. incl.	EAN code	Weight per 100 pc. kg
		mm/Inch	mm/Inch	mm/Inch			
S	RTQ 85.100	85/3,3	100/3,9	336	8 FLM 6x12	793624	130
S	RTQ 85.200	85/3,3	200/7,8	336	10 FLM 6x12	793648	170
S	RTQ 85.300	85/3,3	300/11,7	336	10 FLM 6x12	793662	210
S	RTQ 85.400	85/3,3	400/15,6	336	12 FLM 6x12	793686	230
S	RTQ 85.500	85/3,3	500/19,5	336	12 FLM 6x12	793709	275
S	RTQ 85.600	85/3,3	600/23,4	336	12 FLM 6x12	793723	320

Size of run and tap tray is identical.

85

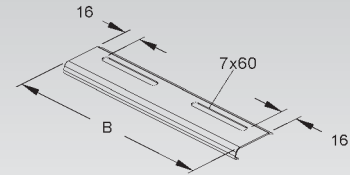


Edge Protection Plate

model no.	width B mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RKB 100	92/3,6	1 FLM 6x12	270200	5
S RKB 200	192/7,5	2 FLM 6x12	270408	10
S RKB 300	292/11,4	2 FLM 6x12	270606	15
S RKB 400	392/15,3	2 FLM 6x12	270705	20
S RKB 500	492/19,2	2 FLM 6x12	270804	25
S RKB 600	592/23,1	2 FLM 6x12	271009	31
F RKB 100 F	92/3,6	1 FLM 6x12 F	563500	5
F RKB 200 F	192/7,5	2 FLM 6x12 F	563708	10
F RKB 300 F	292/11,4	2 FLM 6x12 F	563906	15
F RKB 400 F	392/15,3	2 FLM 6x12 F	564002	20
F RKB 500 F	492/19,2	2 FLM 6x12 F	564101	25
F RKB 600 F	592/23,1	2 FLM 6x12 F	564309	31

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

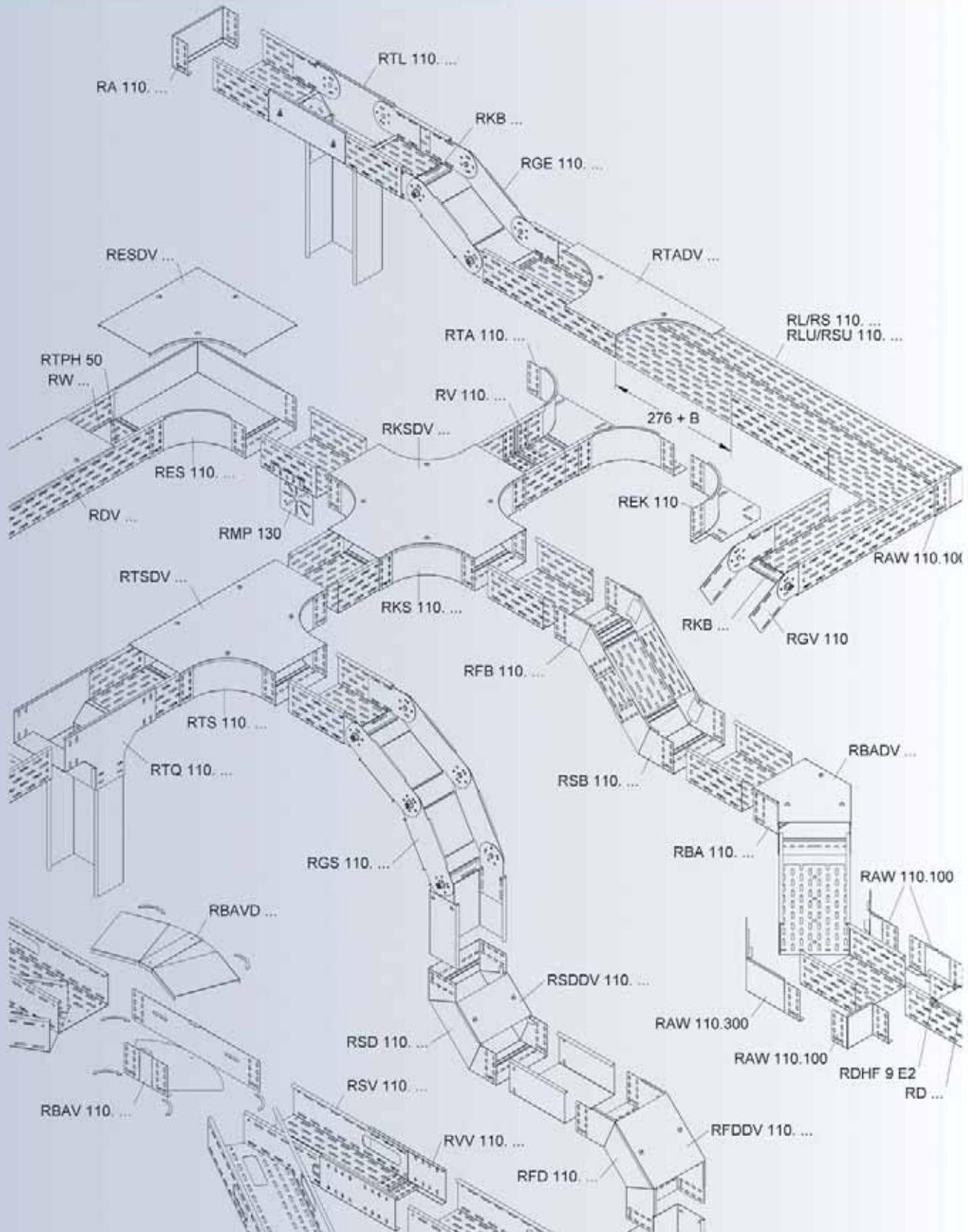
To prevent accidents and injuries you must install edge protection plates! Hole pattern may vary based on width of tray. You will find more detailed information in the installation instructions.



Available Side Rail Heights

SYSTEM	Cable Tray, light version, ventilated	RL	Page 181
	Cable Tray, light version, non ventilated	RLU	Page 181
	Cable Tray, heavy duty version, ventilated	RS	Page 182
	Cable Tray, heavy duty version, non ventilated	RSU	Page 182
	Distribution Cable Tray, ventilated	RSV	Page 183
ACCESSORIES	Edge Protection Ring	KSR 40	Page 183
	Single-piece Splice Plate, u-shaped	RV	Page 183
	Three Piece Splice Plate Kit	RVV	Page 184
	Barrier Strip	RW 110	Page 184
	Splice Plate for Barrier Strip	RTV 110	Page 184
	Mounting Plate for Barrier Strip	RTPH 50	Page 185
	Extension Horizontal Tee	RTA	Page 185
	Extension Horizontal Elbow	REK	Page 186
	Flexible Horizontal Elbow	RBAV	Page 186
	Elbow 45°	RBA	Page 186
	Elbow 90°	RES	Page 186
	Horizontal Tee	RTS	Page 187
	Horizontal Cross	RKS	Page 187
	Offset Reducing Splice Plate	RA	Page 187
	Offset Reducing Splice Plate	RAW	Page 188
	Adjustable Splice Plate, vertical	RGV	Page 188
	Hinge Piece, vertical	RGE	Page 188
	Adjustable Elbow, vertical	RGS	Page 188
	Vertical Outside Elbow 45°	RSB	Page 189
	Vertical Outside Elbow	RSD	Page 189
	Vertical Inside Elbow 45°	RFB	Page 189
	Vertical Outside Elbow	RFD	Page 189
	Vertical Tee Down, straight	RTL	Page 190
	Vertical Tee Down, transverse	RTQ	Page 190
	Edge Protection Plate	RKB	Page 190

The covers of the cable tray system starting from page 191.



CABLE TRAY SYSTEM

Load / Span Class Designation in accordance with NEMA VE 1 and CSA E22.2 No. 126.1

NIEDAX Series	Minimum Area		Load class in accordance to NEMA VE 1		
	(calculational) mm ² / in. ²	in accordance to NEMA VE 2 mm ² / in. ²	Rated Load Kg/m / lb./ft.	Support spacing m / ft.	Load/Span Class
RLX 110.100, ... F	234 / 0.36	129 / 0.2	113 / 76	2 / 6.6	8A, A
RLX 110.200, ... F	332 / 0.51	258 / 0.4	113 / 76	2 / 6.6	8A, A
RLX 110.300, ... F	404 / 0.63	258 / 0.4	113 / 76	2 / 6.6	8A, A
RLX 110.400, ... F	476 / 0.74	452 / 0.7	113 / 76	2 / 6.6	8A, A
RLX 110.500, ... F	548 / 0.85	452 / 0.7	113 / 76	2 / 6.6	8A, A
RLX 110.550, ... F	584 / 0.91	452 / 0.7	113 / 76	2 / 6.6	8A, A
RLX 110.100 ... E3	208 / 0.32	129 / 0.2	113 / 76	2 / 6.6	8A, A
RLX 110.200 ... E3	266 / 0.41	258 / 0.4	113 / 76	2 / 6.6	8A, A
RLX 110.300 ... E3	323 / 0.50	258 / 0.4	113 / 76	2 / 6.6	8A, A
RLX 110.400 ... E3	428 / 0.66	258 / 0.4	113 / 76	2 / 6.6	8A, A
RLX 110.500 ... E3	493 / 0.76	452 / 0.7	113 / 76	2 / 6.6	8A, A
RLX 110.550 ... E3	526 / 0.82	452 / 0.7	113 / 76	2 / 6.6	8A, A
RLUX 110.100, ... F	310 / 0.48	258 / 0.4	113 / 76	2 / 6.6	8A, A
RLUX 110.200, ... F	444 / 0.69	258 / 0.4	113 / 76	2 / 6.6	8A, A
RLUX 110.300, ... F	544 / 0.84	452 / 0.7	113 / 76	2 / 6.6	8A, A
RLUX 110.400, ... F	644 / 1.00	645 / 1.0	113 / 76	2 / 6.6	8A, A
RLUX 110.500, ... F	744 / 1.15	645 / 1.0	113 / 76	2 / 6.6	8A, A
RLUX 110.550, ... F	794 / 1.23	645 / 1.0	113 / 76	2 / 6.6	8A, A
RLUX 110.100 ... E3	275 / 0.43	258 / 0.4	113 / 76	2 / 6.6	8A, A
RLUX 110.200 ... E3	355 / 0.55	258 / 0.4	113 / 76	2 / 6.6	8A, A
RLUX 110.300 ... E3	435 / 0.67	258 / 0.4	113 / 76	2 / 6.6	8A, A
RLUX 110.400 ... E3	580 / 0.90	452 / 0.7	113 / 76	2 / 6.6	8A, A
RLUX 110.500 ... E3	670 / 1.04	645 / 1.0	113 / 76	2 / 6.6	8A, A
RLUX 110.550 ... E3	715 / 1.11	645 / 1.0	113 / 76	2 / 6.6	8A, A
RSX 110.100, ... F	386 / 0.60	258 / 0.4	224 / 151	2 / 6.6	8A, 8B, 8C, A, C
RSX 110.200, ... F	494 / 0.77	452 / 0.7	224 / 151	2 / 6.6	8A, 8B, 8C, A, C
RSX 110.300, ... F	602 / 0.93	452 / 0.7	224 / 151	2 / 6.6	8A, 8B, 8C, A, C
RSX 110.400, ... F	710 / 1.10	645 / 1.0	224 / 151	2 / 6.6	8A, 8B, 8C, A, C
RSX 110.500, ... F	818 / 1.27	645 / 1.0	224 / 151	2 / 6.6	8A, 8B, 8C, A, C
RSX 110.550, ... F	872 / 1.35	645 / 1.0	224 / 151	2 / 6.6	8A, 8B, 8C, A, C
RSUX 110.100, ... F	512 / 0.79	452 / 0.7	224 / 151	2 / 6.6	8A, 8B, 8C, A, C
RSUX 110.200, ... F	662 / 1.03	645 / 1.0	224 / 151	2 / 6.6	8A, 8B, 8C, A, C
RSUX 110.300, ... F	812 / 1.26	645 / 1.0	224 / 151	2 / 6.6	8A, 8B, 8C, A, C
RSUX 110.400, ... F	961 / 1.49	645 / 1.0	224 / 151	2 / 6.6	8A, 8B, 8C, A, C
RSUX 110.500, ... F	1112 / 1.72	968 / 1.5	224 / 151	2 / 6.6	8A, 8B, 8C, A, C
RSUX 110.550, ... F	1187 / 1.84	968 / 1.5	224 / 151	2 / 6.6	8A, 8B, 8C, A, C
RSVX 110.100, ... F *	368 / 0.57	258 / 0.4	67 / 45	3 / 9.8	8A, A
RSVX 110.150, ... F *	383 / 0.59	258 / 0.4	67 / 45	3 / 9.8	8A, A
RSVX 110.200, ... F *	437 / 0.68	258 / 0.4	67 / 45	3 / 9.8	8A, A
RSVX 110.300, ... F *	587 / 0.91	452 / 0.7	67 / 45	3 / 9.8	8A, A
RSVX 110.400, ... F *	716 / 1.11	645 / 1.0	67 / 45	3 / 9.8	8A, A

* - tested by UL with the three piece splice plate kit RVVX in the middle of two supports

Medium Duty Cable Tray

ventilated

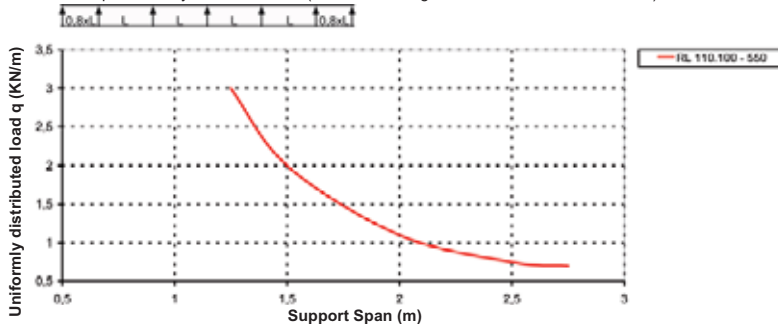
	model no.	height H	width B	thick- ness t	acc. incl.	EAN code	Weight per 100 m kg
		mm/Inch	mm/Inch	mm/Inch			
S	RL 110.100	110/4,3	100/3,9	0,9	8 FLM 6x12	243402	234
S	RL 110.200	110/4,3	200/7,8	1	10 FLM 6x12	243501	299
S	RL 110.300	110/4,3	300/11,7	1	10 FLM 6x12	243600	374
S	RL 110.400	110/4,3	400/15,6	1	12 FLM 6x12	243709	404
F	RL 110.100 F	110/4,3	100/3,9	0,9	8 FLM 6x12 F	244607	234
F	RL 110.200 F	110/4,3	200/7,8	1	10 FLM 6x12 F	244805	299
F	RL 110.300 F	110/4,3	300/11,7	1	10 FLM 6x12 F	245000	374
F	RL 110.400 F	110/4,3	400/15,6	1	12 FLM 6x12 F	245208	404
E3	RL 110.100 E3	110/4,3	100/3,9	0,8	8 FLM 6x12 E3	332205	184
E3	RL 110.200 E3	110/4,3	200/7,8	0,8	10 FLM 6x12 E3	332304	254
E3	RL 110.300 E3	110/4,3	300/11,7	0,8	10 FLM 6x12 E3	332403	307
E3	RL 110.400 E3	110/4,3	400/15,6	0,9	12 FLM 6x12 E3	332502	409

Bottom and side plates perforated with staggered punch holes.

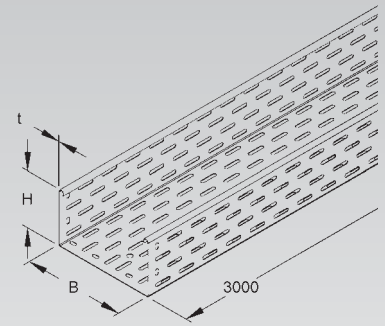
Extra 7/16" punch holes (11 mm) for center hanging with threaded rod.

One splice plate RV... included with every straight section of cable tray.

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



110



Medium Duty Cable Tray

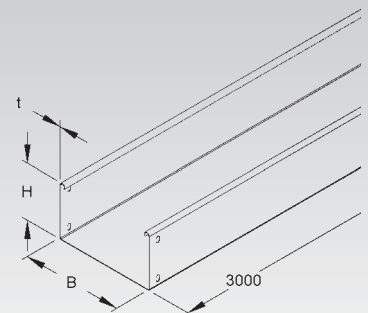
solid

	model no.	height H	width B	thick- ness t	acc. incl.	EAN code	Weight per 100 m kg
		mm/Inch	mm/Inch	mm/Inch			
S	RLU 110.100	110/4,3	100/3,9	0,9	8 FLM 6x12	244003	243
S	RLU 110.200	110/4,3	200/7,8	1	10 FLM 6x12	244102	314
S	RLU 110.300	110/4,3	300/11,7	1	10 FLM 6x12	244201	384
S	RLU 110.400	110/4,3	400/15,6	1	12 FLM 6x12	244300	506
F	RLU 110.100 F	110/4,3	100/3,9	0,9	8 FLM 6x12 F	244706	261,5
F	RLU 110.200 F	110/4,3	200/7,8	0,9	10 FLM 6x12 F	244904	337,5
F	RLU 110.300 F	110/4,3	300/11,7	0,9	10 FLM 6x12 F	245109	413
F	RLU 110.400 F	110/4,3	400/15,6	1	12 FLM 6x12 F	245307	544
E3	RLU 110.100 E3	110/4,3	100/3,9	0,8	8 FLM 6x12 E3	332809	212
E3	RLU 110.200 E3	110/4,3	200/7,8	0,8	10 FLM 6x12 E3	332908	292
E3	RLU 110.300 E3	110/4,3	300/11,7	0,8	10 FLM 6x12 E3	333004	357
E3	RLU 110.400 E3	110/4,3	400/15,6	0,9	12 FLM 6x12 E3	333103	475

with prepunched holes for splices

One splice plate RV... included with every straight section of cable tray.

110



CABLE TRAY SYSTEM

Heavy Duty Cable Tray

ventilated

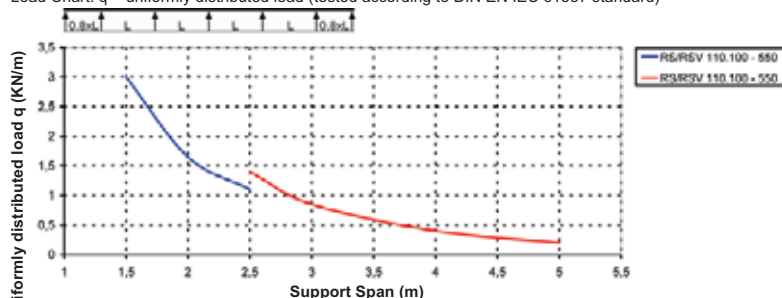
model no.	height H	width B	thick-ness t	acc. incl.	EAN code	Weight per 100 m kg
	mm/Inch	mm/Inch	mm/Inch			
S RS 110.100	110/4,3	100/3,9	1,5	8 FLM 6x12	245802	350
S RS 110.200	110/4,3	200/7,8	1,5	10 FLM 6x12	246007	450
S RS 110.300	110/4,3	300/11,7	1,5	10 FLM 6x12	246205	564
S RS 110.400	110/4,3	400/15,6	1,5	12 FLM 6x12	246403	610
F RS 110.100 F	110/4,3	100/3,9	1,5	8 FLM 6x12 F	247004	350
F RS 110.200 F	110/4,3	200/7,8	1,5	10 FLM 6x12 F	247202	450
F RS 110.300 F	110/4,3	300/11,7	1,5	10 FLM 6x12 F	247400	564
F RS 110.400 F	110/4,3	400/15,6	1,5	12 FLM 6x12 F	247608	610

Bottom and side plates perforated with staggered punch holes.

Extra 7/16" punch holes (11 mm) for center hanging with threaded rod.

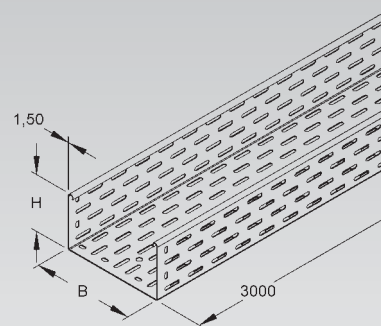
One splice plate RV... included with every straight section of cable tray.

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



Load rating with heavy duty splice plate RVV 110.xxx in red..

110



Heavy Duty Cable Tray

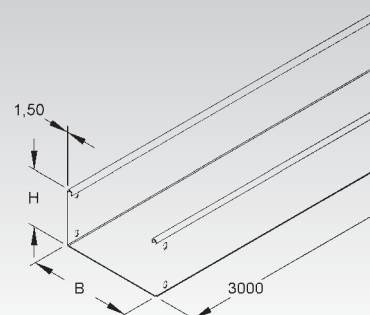
solid

model no.	height H	width B	thick-ness t	acc. incl.	EAN code	Weight per 100 m kg
	mm/Inch	mm/Inch	mm/Inch			
S RSU 110.100	110/4,3	100/3,9	1,5	8 FLM 6x12	245901	402
S RSU 110.200	110/4,3	200/7,8	1,5	10 FLM 6x12	246106	519
S RSU 110.300	110/4,3	300/11,7	1,5	10 FLM 6x12	246304	637
S RSU 110.400	110/4,3	400/15,6	1,5	12 FLM 6x12	246502	755
F RSU 110.100 F	110/4,3	100/3,9	1,5	8 FLM 6x12 F	247103	432,5
F RSU 110.200 F	110/4,3	200/7,8	1,5	10 FLM 6x12 F	247301	558
F RSU 110.300 F	110/4,3	300/11,7	1,5	10 FLM 6x12 F	247509	685
F RSU 110.400 F	110/4,3	400/15,6	1,5	12 FLM 6x12 F	247707	812

with prepunched holes for splices

One splice plate RV... included with every straight section of cable tray.

110



Distribution Cable Tray

ventilated

model no.	height H mm/Inch	width B mm/Inch	thick- ness t mm/Inch	acc. incl.	EAN code	Weight per 100 m kg
S RSV 110.100	110/4,3	100/3,9	1,5	12 FLM 6x12	259069	283
S RSV 110.150	110/4,3	150/5,8	1,5	12 FLM 6x12	259106	350
S RSV 110.200	110/4,3	200/7,8	1,5	12 FLM 6x12	259205	417
S RSV 110.300	110/4,3	300/11,7	1,5	12 FLM 6x12	259304	564
S RSV 110.400	110/4,3	400/15,6	1,5	12 FLM 6x12	259403	577
F RSV 110.100 F	110/4,3	100/3,9	1,5	12 FLM 6x12 F	553655	283
F RSV 110.150 F	110/4,3	150/5,8	1,5	12 FLM 6x12 F	553709	350
F RSV 110.200 F	110/4,3	200/7,8	1,5	12 FLM 6x12 F	553808	417
F RSV 110.300 F	110/4,3	300/11,7	1,5	12 FLM 6x12 F	553907	564
F RSV 110.400 F	110/4,3	400/15,6	1,5	12 FLM 6x12 F	554003	577

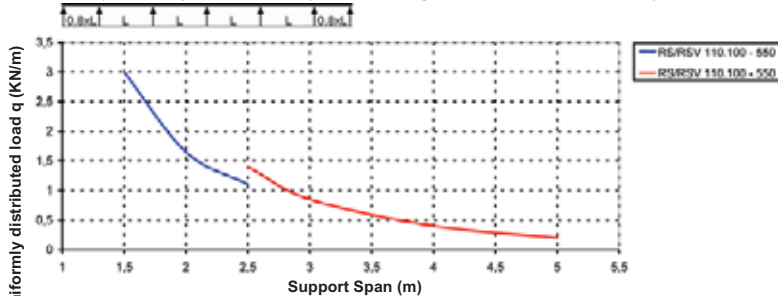
Bottom and side plates perforated with staggered punch holes and extra cable outlets (40 mm x 150 mm).

Hole pattern may vary based on width of tray. You will find more detailed information in the installation instructions.

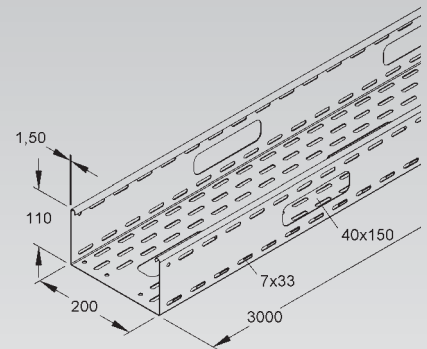
For: cable trays type RL, RLU, RS, RSU and RSV...

One splice plate RV... included with every straight section of cable tray.

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



Load rating with heavy duty splice plate RVV 110.xxx in red..



Edge Protection Ring

with high ultraviolet resistance

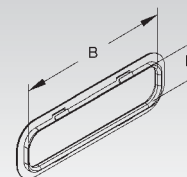
model no.	color	inside height H mm/Inch	inside dimension (B) mm/Inch	EAN code	Weight per 100 kg
K04 KSR 40 A	black	34,5	144,5/5,6	946785	1,3

Protect cables against damages at the dropouts of tray or surface metal raceways.

To prevent accidents and injuries you must install the edge protection ring.

For: distribution cable tray RSV 110...

Box quantity for KSR 40 A 20 pieces.

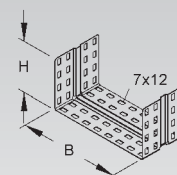


U-shaped Splice Plate

model no.	height H mm/Inch	width B mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RV 110.100	99/3,9	97/3,8	8 FLM 6x12	273607	23
S RV 110.150	99/3,9	147/5,7	8 FLM 6x12	273652	27
S RV 110.200	99/3,9	197/7,7	10 FLM 6x12	273706	31
S RV 110.300	99/3,9	297/11,6	10 FLM 6x12	273805	39
S RV 110.400	99/3,9	397/15,5	12 FLM 6x12	273904	47
F RV 110.100 F	99/3,9	97/3,8	8 FLM 6x12 F	553105	23
F RV 110.150 F	99/3,9	147/5,7	8 FLM 6x12 F	553150	27
F RV 110.200 F	99/3,9	197/7,7	10 FLM 6x12 F	553204	31
F RV 110.300 F	99/3,9	297/11,6	10 FLM 6x12 F	553303	39
F RV 110.400 F	99/3,9	397/15,5	12 FLM 6x12 F	553402	47
E3 RV 110.100 E3	99/3,9	97/3,8	8 FLM 6x12 E3	920303	17
E3 RV 110.200 E3	99/3,9	197/7,7	10 FLM 6x12 E3	920310	24
E3 RV 110.300 E3	99/3,9	297/11,6	10 FLM 6x12 E3	920327	30
E3 RV 110.400 E3	99/3,9	397/15,5	12 FLM 6x12 E3	920334	36

For: cable trays type RL, RLU, RS, RSU and RSV...

One RV type splice plate is included with every straight piece of RL or RS tray but can be ordered separately for extra needs.



CABLE TRAY SYSTEM

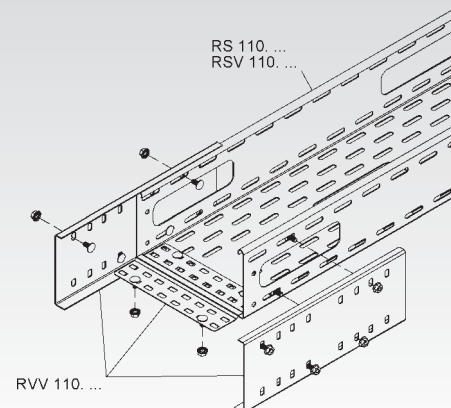
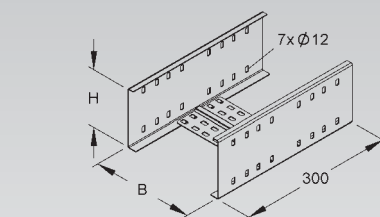
Three Piece Splice Plate Kit

model no.	height H	width B	acc. incl.	EAN code	Weight per 100 pc. kg
S RVV 110.100	111/4,3	100/3,9	12 FLM 6x12	259663	120
S RVV 110.150	111/4,3	150/5,8	12 FLM 6x12	259700	125
S RVV 110.200	111/4,3	200/7,8	12 FLM 6x12	259809	130
S RVV 110.300	111/4,3	300/11,7	12 FLM 6x12	259908	140
S RVV 110.400	111/4,3	400/15,6	12 FLM 6x12	260003	145
F RVV 110.100 F	111/4,3	100/3,9	12 FLM 6x12 F	554058	120
F RVV 110.150 F	111/4,3	150/5,8	12 FLM 6x12 F	554102	125
F RVV 110.200 F	111/4,3	200/7,8	12 FLM 6x12 F	554201	130
F RVV 110.300 F	111/4,3	300/11,7	12 FLM 6x12 F	554300	140
F RVV 110.400 F	111/4,3	400/15,6	12 FLM 6x12 F	554409	145

Heavy Duty splice kit to maximise support span.

For: support span up to 5 meters

110



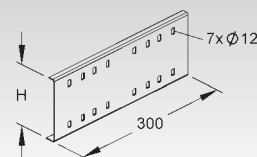
Splice Plate

model no.	height H	acc. incl.	EAN code	Weight per 100 pc. kg
E3 RVV 110 E3	111/4,3	4 FLM 6x12 E3	732005	64

Heavy Duty splice kit to maximise support span.

2 pieces required per joint

110



Barrier Strip

model no.	height H	thick- ness t	acc. incl.	EAN code	Weight per 100 m kg
S RW 110	98/3,8	0,9	4 FLM 6x12	251001	90
F RW 110 F	98/3,8	0,9	4 FLM 6x12 F	251100	90
E3 RW 110 E3	98/3,8	0,9	4 FLM 6x12 E3	333509	92

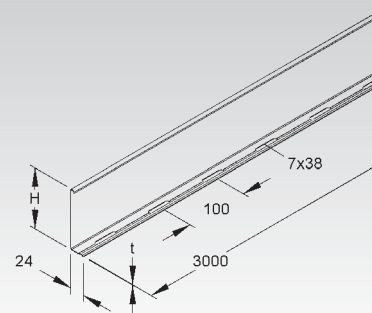
To separate wires and cables of different voltage levels or with different functions.
to separate wires and cables of different voltage levels or with different functions.

Flange with slotted holes 7x38 mm, spacing 100 mm.

110



61



Splice Plate for Barrier Strip

model no.	height H	length A	EAN code	Weight per 100 pc. kg
E2 RTV 110 E2	97,5/3,8	80/3,1	251162	3

For positive locking connections and proper bonding of barrier strips.

110



61

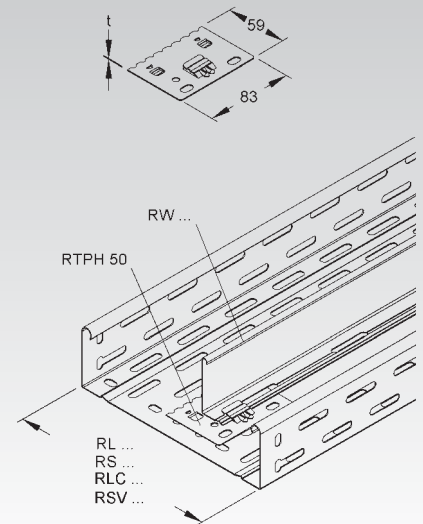


Mounting Plate for Barrier Strip

model no.	length A	width B	thick- ness t	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch		
S RTPH 50	83/3,2	59/2,3	0,9	231973	4

For: all perforated cable trays including distribution tray (min. width 200 mm)

The barrier strip mounting plate locks into the perforation of the tray while the barrier strip itself snaps into the latch of the plate.

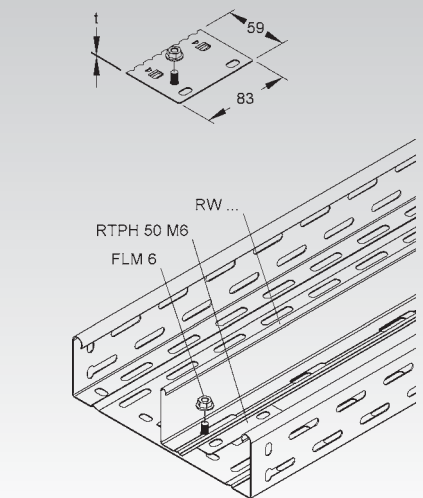


Mounting Plate for Barrier Strip with M6 Stud

model no.	length A	width B	thick- ness t	EAN code	Weight per 100 kg
	mm/Inch	mm/Inch	mm/Inch		
S RTPH 50 M6	83/3,2	59/2,3	0,9	961955	3,4

For: all perforated cable trays including distribution tray (min. width 200 mm)

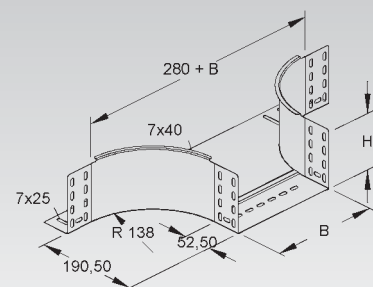
The Barrier Strip is securely fixed to the stud bolt using an M6 flange nut.



Extension Horizontal Tee

model no.	height H	inside dimension (B)	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch			
S RTA 110.100	110/4,3	102/4	10 FLM 6x12	252503	92,3
S RTA 110.150	110/4,3	152/5,9	10 FLM 6x12	252602	100,8
S RTA 110.200	110/4,3	202/7,9	10 FLM 6x12	252701	109,2
S RTA 110.300	110/4,3	302/11,8	10 FLM 6x12	252800	126,2
S RTA 110.400	110/4,3	402/15,7	10 FLM 6x12	252909	143,3
F RTA 110.100 F	110/4,3	102/4	10 FLM 6x12 F	548606	99,2
F RTA 110.150 F	110/4,3	152/5,9	10 FLM 6x12 F	548651	108,3
F RTA 110.200 F	110/4,3	202/7,9	10 FLM 6x12 F	548705	117,4
F RTA 110.300 F	110/4,3	302/11,8	10 FLM 6x12 F	548804	135,6
F RTA 110.400 F	110/4,3	402/15,7	10 FLM 6x12 F	548903	154,1
E3 RTA 110.100 E3	110/4,3	102/4	10 FLM 6x12 E3	334209	89
E3 RTA 110.200 E3	110/4,3	202/7,9	10 FLM 6x12 E3	334308	108,3
E3 RTA 110.300 E3	110/4,3	302/11,8	10 FLM 6x12 E3	334407	119,2
E3 RTA 110.400 E3	110/4,3	402/15,7	10 FLM 6x12 E3	334506	153,8

Solid side plate with punched holes for splices, integrated splice for tee.



CABLE TRAY SYSTEM

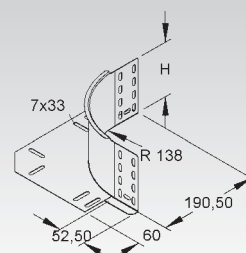
Horizontal Elbow Building Block

model no.	height H mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S REK 110	110/4,3	6 FLM 6x12	253203	43,9
F REK 110 F	110/4,3	6 FLM 6x12 F	549207	47,2
E3 REK 110 E3	110/4,3	6 FLM 6x12 E3	334902	42,4

For custom built 90° elbows and T-fittings.

Solid side plate with punched holes for splices, overlapping bottom plate.

110

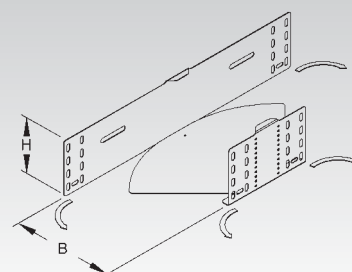


Flexible Horizontal Elbow 0-90°

model no.	height H mm/Inch	inside dimension (B) mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RBAV 110.100	110/4,3	100/3,9	10 FLM 6x12	922406	56
S RBAV 110.150	110/4,3	150/5,8	10 FLM 6x12	922413	74
S RBAV 110.200	110/4,3	200/7,8	10 FLM 6x12	922420	93
S RBAV 110.300	110/4,3	300/11,7	10 FLM 6x12	922444	140
S RBAV 110.400	110/4,3	400/15,6	10 FLM 6x12	922468	198

Solid side plate with punched holes for splices.

110

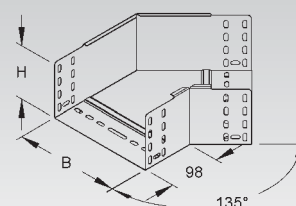


Horizontal Elbow 45°

model no.	height H mm/Inch	inside dimension (B) mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RBA 110.100	110/4,3	102/4	4 FLM 6x12	251209	63,3
S RBA 110.150	110/4,3	152/5,9	4 FLM 6x12	251254	79,3
S RBA 110.200	110/4,3	202/7,9	5 FLM 6x12	251308	96,9
S RBA 110.300	110/4,3	302/11,8	5 FLM 6x12	251407	137
S RBA 110.400	110/4,3	402/15,7	6 FLM 6x12	251506	183,8
F RBA 110.100 F	110/4,3	102/4	4 FLM 6x12 F	547401	68
F RBA 110.150 F	110/4,3	152/5,9	4 FLM 6x12 F	547456	85,2
F RBA 110.200 F	110/4,3	202/7,9	5 FLM 6x12 F	547500	104,1
F RBA 110.300 F	110/4,3	302/11,8	5 FLM 6x12 F	547609	147,3
F RBA 110.400 F	110/4,3	402/15,7	6 FLM 6x12 F	547708	197,6

Solid side plate with integrated prepunched splice plates.

110

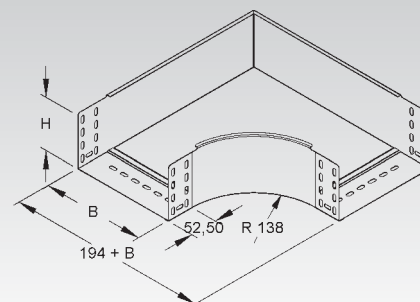


Horizontal Elbow 90°

model no.	height H mm/Inch	inside dimension (B) mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RES 110.100	110/4,3	102/4	4 FLM 6x12	251803	118,7
S RES 110.150	110/4,3	152/5,9	4 FLM 6x12	251858	150,4
S RES 110.200	110/4,3	202/7,9	5 FLM 6x12	251902	195,1
S RES 110.300	110/4,3	302/11,8	5 FLM 6x12	252008	283
S RES 110.400	110/4,3	402/15,7	6 FLM 6x12	252107	386,2
F RES 110.100 F	110/4,3	102/4	4 FLM 6x12 F	548002	127,6
F RES 110.150 F	110/4,3	152/5,9	4 FLM 6x12 F	548057	161,7
F RES 110.200 F	110/4,3	202/7,9	5 FLM 6x12 F	548101	209,7
F RES 110.300 F	110/4,3	302/11,8	5 FLM 6x12 F	548200	304,2
F RES 110.400 F	110/4,3	402/15,7	6 FLM 6x12 F	548309	415,2

Solid side plate with integrated prepunched splice plates.

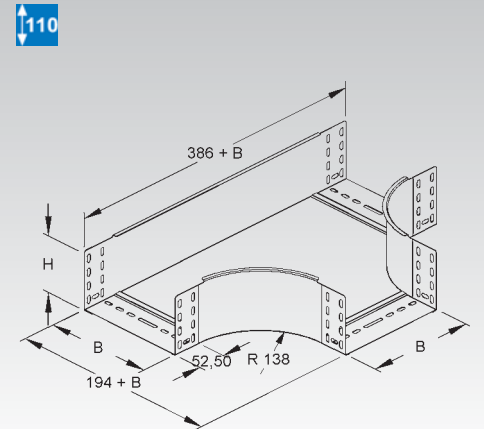
110



Horizontal Tee

model no.	height H	inside dimension (B)	acc. incl.	EAN code	Weight per 100 pc. kg
mm/Inch	mm/Inch	mm/Inch			
S RTS 110.100	110/4,3	102/4	8 FLM 6x12	254200	153,9
S RTS 110.150	110/4,3	152/5,9	8 FLM 6x12	254255	187,5
S RTS 110.200	110/4,3	202/7,9	10 FLM 6x12	254309	237,4
S RTS 110.300	110/4,3	302/11,8	10 FLM 6x12	254408	330,8
S RTS 110.400	110/4,3	402/15,7	12 FLM 6x12	254507	439,8
F RTS 110.100 F	110/4,3	102/4	8 FLM 6x12 F	550005	165,4
F RTS 110.150 F	110/4,3	152/5,9	8 FLM 6x12 F	550050	201,6
F RTS 110.200 F	110/4,3	202/7,9	10 FLM 6x12 F	550104	255,2
F RTS 110.300 F	110/4,3	302/11,8	10 FLM 6x12 F	550203	355,6
F RTS 110.400 F	110/4,3	402/15,7	12 FLM 6x12 F	550302	472,8

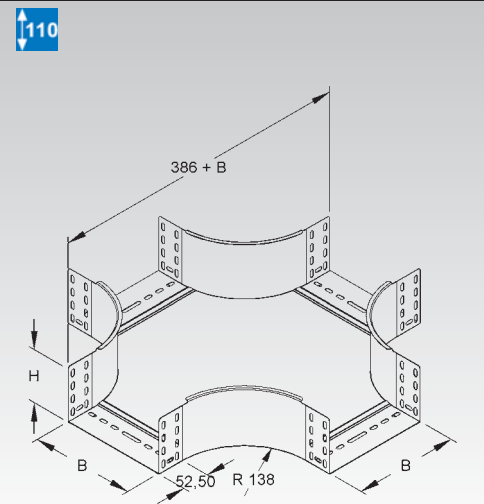
Solid side plate with integrated prepunched splice plates.



Horizontal Cross

model no.	height H	inside dimension (B)	acc. incl.	EAN code	Weight per 100 pc. kg
mm/Inch	mm/Inch	mm/Inch			
S RKS 110.100	110/4,3	102/4	12 FLM 6x12	254804	194,4
S RKS 110.150	110/4,3	152/5,9	12 FLM 6x12	254859	233,9
S RKS 110.200	110/4,3	202/7,9	15 FLM 6x12	254903	277,4
S RKS 110.300	110/4,3	302/11,8	15 FLM 6x12	255009	376,2
S RKS 110.400	110/4,3	402/15,7	18 FLM 6x12	255108	490,7
F RKS 110.100 F	110/4,3	102/4	12 FLM 6x12 F	550609	208,9
F RKS 110.150 F	110/4,3	152/5,9	12 FLM 6x12 F	550654	251,5
F RKS 110.200 F	110/4,3	202/7,9	15 FLM 6x12 F	550708	298,2
F RKS 110.300 F	110/4,3	302/11,8	15 FLM 6x12 F	550807	404,4
F RKS 110.400 F	110/4,3	402/15,7	18 FLM 6x12 F	550906	527,5

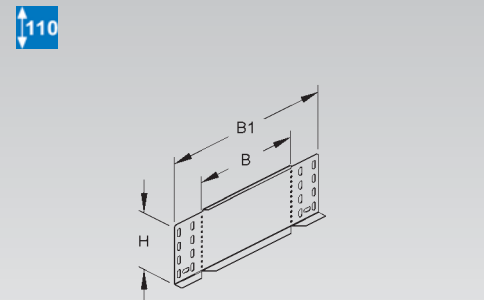
Solid side plate with integrated prepunched splice plates.



Reducer / Blind End

model no.	height H	width B	width B1	acc. incl.	EAN code	Weight per 100 pc. kg
mm/Inch	mm/Inch	mm/Inch	mm/Inch			
S RA 110.050	110/4,3	50/2	172	4 FLM 6x12	764105	15
S RA 110.150	110/4,3	150/5,8	272	4 FLM 6x12	764303	26
S RA 110.200	110/4,3	200/7,8	322	4 FLM 6x12	764402	31
S RA 110.250	110/4,3	250/9,8	372	4 FLM 6x12	764501	36
S RA 110.350	110/4,3	350/13,6	472	4 FLM 6x12	764709	47
S RA 110.400	110/4,3	400/15,6	522	4 FLM 6x12	764808	52
F RA 110.050 F	110/4,3	50/2	172	4 FLM 6x12 F	765102	15
F RA 110.150 F	110/4,3	150/5,8	272	4 FLM 6x12 F	765300	26
F RA 110.200 F	110/4,3	200/7,8	322	4 FLM 6x12 F	765409	31
F RA 110.250 F	110/4,3	250/9,8	372	4 FLM 6x12 F	765508	36
F RA 110.350 F	110/4,3	350/13,6	472	4 FLM 6x12 F	765706	47
F RA 110.400 F	110/4,3	400/15,6	522	4 FLM 6x12 F	765805	52
E3 RA 110.050 E3	110/4,3	50/2	172	4 FLM 6x12 E3	840809	15
E3 RA 110.150 E3	110/4,3	150/5,8	272	4 FLM 6x12 E3	840847	
E3 RA 110.200 E3	110/4,3	200/7,8	322	4 FLM 6x12 E3	840861	31
E3 RA 110.250 E3	110/4,3	250/9,8	372	4 FLM 6x12 E3	840885	
E3 RA 110.350 E3	110/4,3	350/13,6	472	4 FLM 6x12 E3	840922	
E3 RA 110.400 E3	110/4,3	400/15,6	522	4 FLM 6x12 E3	840946	52

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



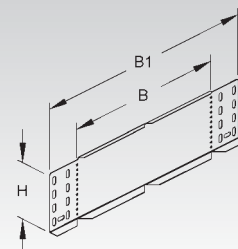
CABLE TRAY SYSTEM

Adjustable Splice / Reducer / Blind End

model no.	height H	width B	width B1	acc. incl.	EAN code	Weight per 100 pc. kg
mm/Inch	mm/Inch	mm/Inch				
S RAW 110.100	110/4,3	100/3,9	222	4 FLM 6x12	764204	21
S RAW 110.300	110/4,3	300/11,7	422	4 FLM 6x12	764600	41
F RAW 110.100 F	110/4,3	100/3,9	222	4 FLM 6x12 F	765201	21
F RAW 110.300 F	110/4,3	300/11,7	422	4 FLM 6x12 F	765607	41
E3 RAW 110.100 E3	110/4,3	100/3,9	222	4 FLM 6x12 E3	840823	21
E3 RAW 110.300 E3	110/4,3	300/11,7	422	4 FLM 6x12 E3	840908	41

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

110

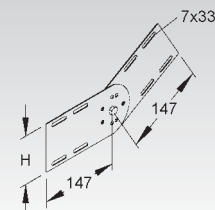


Adjustable Vertical Splice Plate

model no.	height H	acc. incl.	EAN code	Weight per 100 pc. kg
mm/Inch				
S RGV 110	93/3,6	4 FLM 6x12	253302	45
F RGV 110 F	93/3,6	4 FLM 6x12 F	253401	45
E3 RGV 110 E3	93/3,6	4 FLM 6x12 E3	335107	45

2 pieces required per joint

110



Splice/Link Kit

vertical

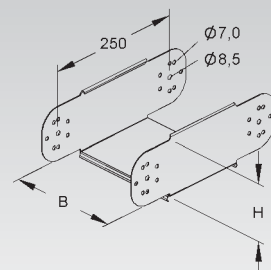
model no.	height H	width B	acc. incl.	EAN code	Weight per 100 pc. kg
mm/Inch	mm/Inch				
S RGE 110.100	110/4,3	100/3,9	2 SKM 8x16	256006	66
S RGE 110.150	110/4,3	150/5,8	2 SKM 8x16	256051	71
S RGE 110.200	110/4,3	200/7,8	2 SKM 8x16	256105	79
S RGE 110.300	110/4,3	300/11,7	2 SKM 8x16	256204	91
S RGE 110.400	110/4,3	400/15,6	2 SKM 8x16	256303	103
F RGE 110.100 F	110/4,3	100/3,9	2 SKM 8x16 F	551804	66
F RGE 110.150 F	110/4,3	150/5,8	2 SKM 8x16 F	551859	71
F RGE 110.200 F	110/4,3	200/7,8	2 SKM 8x16 F	551903	79
F RGE 110.300 F	110/4,3	300/11,7	2 SKM 8x16 F	552009	91
F RGE 110.400 F	110/4,3	400/15,6	2 SKM 8x16 F	552108	103

For linking sections of tray with a vertical displacement (single piece splice).

Bottom blade and siderails with rounded edges for cable protection at the joints.

For: For enlarging the radius of RGS... and RGV vertical elbows.

110



Adjustable Vertical Elbow

model no.	height H	width B	acc. incl.	EAN code	Weight per 100 pc. kg
mm/Inch	mm/Inch				
S RGS 110.100	110/4,3	100/3,9	14 FLM 6x12, 6 SKM 8x16	255405	151
S RGS 110.150	110/4,3	150/5,8	14 FLM 6x12, 6 SKM 8x16	255450	172
S RGS 110.200	110/4,3	200/7,8	14 FLM 6x12, 6 SKM 8x16	255504	190
S RGS 110.300	110/4,3	300/11,7	14 FLM 6x12, 6 SKM 8x16	255603	225
S RGS 110.400	110/4,3	400/15,6	14 FLM 6x12, 6 SKM 8x16	255702	264
F RGS 110.100 F	110/4,3	100/3,9	14 FLM 6x12 F, 6 SKM 8x16 F	551200	151
F RGS 110.150 F	110/4,3	150/5,8	14 FLM 6x12 F, 6 SKM 8x16 F	551255	172
F RGS 110.200 F	110/4,3	200/7,8	14 FLM 6x12 F, 6 SKM 8x16 F	551309	190
F RGS 110.300 F	110/4,3	300/11,7	14 FLM 6x12 F, 6 SKM 8x16 F	551408	225
F RGS 110.400 F	110/4,3	400/15,6	14 FLM 6x12 F, 6 SKM 8x16 F	551507	264

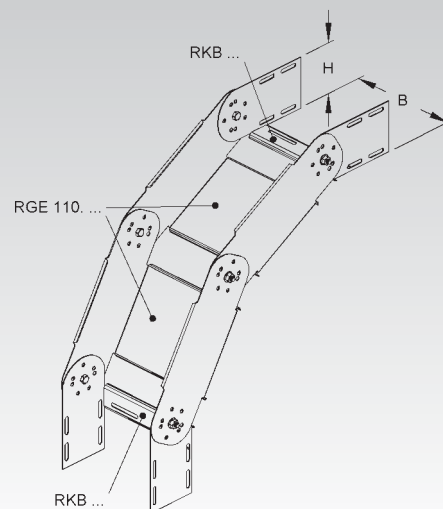
For linking sections of tray with a vertical displacement (single piece splice).

A complete inside/outside vertical elbow kit consists of 2 x RGE..., 2 x RKB... and 2 x RGV...

Bottom blade and siderails with rounded edges for cable protection at the joints.

delivered as a kit (not assembled)

110

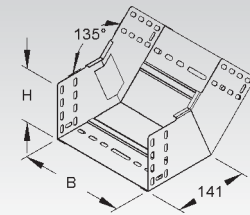


Vertical Inside Elbow 45°

model no.	height H	inside dimension (B)	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch			
S RSB 110.100	110/4,3	102/4	4 FLM 6x12	814008	70,3
S RSB 110.150	110/4,3	152/5,9	4 FLM 6x12	814053	81,1
S RSB 110.200	110/4,3	202/7,9	5 FLM 6x12	814107	91,8
S RSB 110.300	110/4,3	302/11,8	5 FLM 6x12	814152	113,4
S RSB 110.400	110/4,3	402/15,7	6 FLM 6x12	814206	134,9

Solid side plate with integrated prepunched splice plates.

110

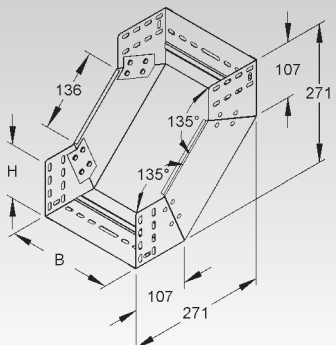


Vertical Inside Elbow 90°

model no.	height H	inside dimension (B)	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch			
S RSD 110.100	110/4,3	102/4	4 FLM 6x12	928200	106
S RSD 110.150	110/4,3	152/5,9	4 FLM 6x12	928217	123,4
S RSD 110.200	110/4,3	202/7,9	5 FLM 6x12	928224	141
S RSD 110.300	110/4,3	302/11,8	5 FLM 6x12	928248	175
S RSD 110.400	110/4,3	402/15,7	6 FLM 6x12	928262	210

Solid side plate with integrated prepunched splice plates.

110

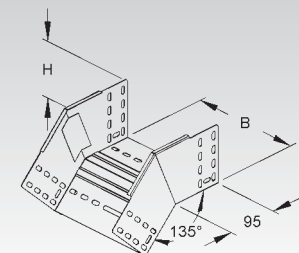


Vertical Outside Elbow 45°

model no.	height H	inside dimension (B)	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch			
S RFB 110.100	110/4,3	102/4	4 FLM 6x12	814350	62
S RFB 110.150	110/4,3	152/5,9	4 FLM 6x12	814404	69,3
S RFB 110.200	110/4,3	202/7,9	5 FLM 6x12	814459	76,5
S RFB 110.300	110/4,3	302/11,8	5 FLM 6x12	814503	91
S RFB 110.400	110/4,3	402/15,7	6 FLM 6x12	814558	105,4

Solid side plate with integrated prepunched splice plates.

110

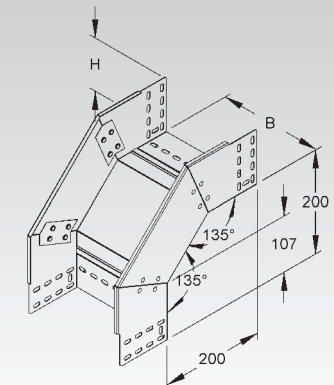


Vertical Outside Elbow 90°

model no.	height H	inside dimension (B)	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch			
S RFD 110.100	110/4,3	102/4	4 FLM 6x12	927722	113
S RFD 110.150	110/4,3	152/5,9	4 FLM 6x12	927739	126,9
S RFD 110.200	110/4,3	202/7,9	5 FLM 6x12	927746	140
S RFD 110.300	110/4,3	302/11,8	5 FLM 6x12	927760	167
S RFD 110.400	110/4,3	402/15,7	6 FLM 6x12	927784	194

Solid side plate with integrated prepunched splice plates.

110



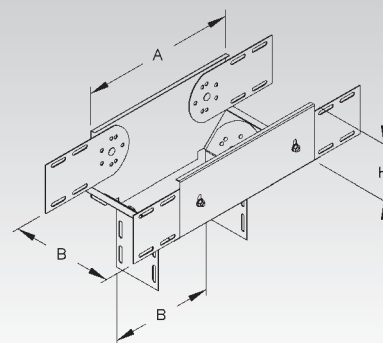
CABLE TRAY SYSTEM

Vertical Tee Down, lengthwise

model no.	height H	width B	length A	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch			
S RTL 110.150	110/4,3	150/5,8	251	20 FLM 6x12 + 3 RGV 110	793815	210
S RTL 110.200	110/4,3	200/7,8	301	20 FLM 6x12 + 3 RGV 110	793822	234
S RTL 110.300	110/4,3	300/11,7	501	20 FLM 6x12 + 3 RGV 110	793846	380
S RTL 110.400	110/4,3	400/15,6	801	20 FLM 6x12 + 3 RGV 110	793860	682

Size of run and tap tray is identical.

110

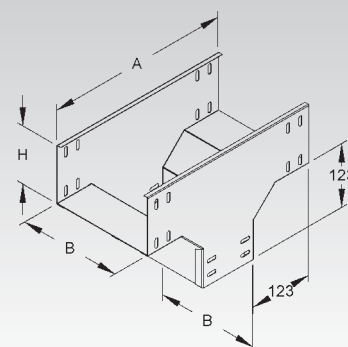


Vertical Tee Down, crosswise

model no.	height H	width B	length A	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch			
S RTQ 110.100	110/4,3	100/3,9	361	8 FLM 6x12	793921	150
S RTQ 110.150	110/4,3	150/5,8	361	8 FLM 6x12	793938	170
S RTQ 110.200	110/4,3	200/7,8	361	10 FLM 6x12	793945	190
S RTQ 110.300	110/4,3	300/11,7	361	10 FLM 6x12	793969	245
S RTQ 110.400	110/4,3	400/15,6	361	12 FLM 6x12	793983	260

Size of run and tap tray is identical.

110



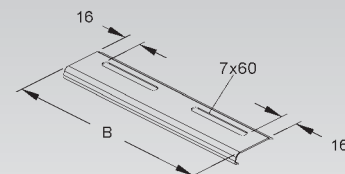
Edge Protection Plate

model no.	width B	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch			
S RKB 100	92/3,6	1 FLM 6x12	270200	5
S RKB 150	142/5,5	2 FLM 6x12	270309	8
S RKB 200	192/7,5	2 FLM 6x12	270408	10
S RKB 300	292/11,4	2 FLM 6x12	270606	15
S RKB 400	392/15,3	2 FLM 6x12	270705	20
F RKB 100 F	92/3,6	1 FLM 6x12 F	563500	5
F RKB 150 F	142/5,5	2 FLM 6x12 F	563609	8
F RKB 200 F	192/7,5	2 FLM 6x12 F	563708	10
F RKB 300 F	292/11,4	2 FLM 6x12 F	563906	15
F RKB 400 F	392/15,3	2 FLM 6x12 F	564002	20
E3 RKB 100 E3	92/3,6	1 FLM 6x12 E3	335503	5
E3 RKB 200 E3	192/7,5	2 FLM 6x12 E3	335602	10
E3 RKB 300 E3	292/11,4	2 FLM 6x12 E3	335701	15
E3 RKB 400 E3	392/15,3	2 FLM 6x12 E3	335800	20

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

To prevent accidents and injuries you must install edge protection plates! Hole pattern may vary based on width of tray. You will find more detailed information in the installation instructions.

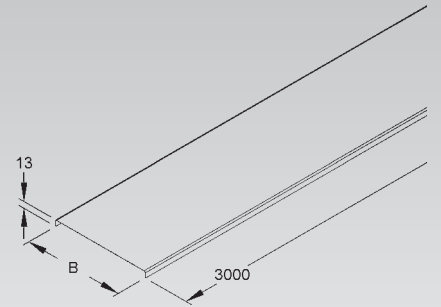
51



Cover for Cable Tray/Ladder

model no.	inside dimension (B) mm/Inch	EAN code	Weight per 100 m kg
S RD 100	102/4	260300	95
S RD 150	152/5,9	260409	126
S RD 200	202/7,9	260508	175
S RD 300	302/11,8	260706	256
S RD 400	402/15,7	260805	336
S RD 500	502/19,6	260904	416
S RD 600	602/23,5	261109	496
F RD 100 F	102/4	262502	78,5
F RD 150 F	152/5,9	262601	127
F RD 200 F	202/7,9	262700	175
F RD 300 F	302/11,8	262908	257
F RD 400 F	402/15,7	263004	337
F RD 500 F	502/19,6	263103	417
F RD 600 F	602/23,5	263301	497
E3 RD 100 E3	102/4	336203	95
E3 RD 200 E3	202/7,9	336302	175
E3 RD 300 E3	302/11,8	336401	256
E3 RD 400 E3	402/15,7	336500	336
E3 RD 500 E3	502/19,6	336609	416
E3 RD 600 E3	602/23,5	336807	496

For: all straight sections of cable tray (other than RSV 50...) as well as for KL 60 and KL 100 cable ladders



Cover for Cable Tray/Ladder

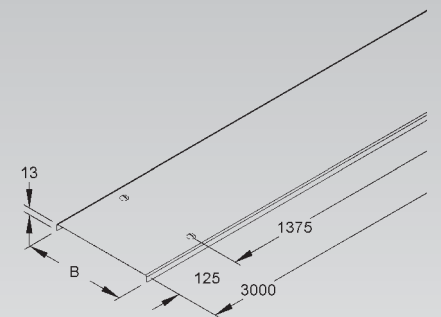
with turnbolt locks

model no.	inside dimension (B) mm/Inch	EAN code	Weight per 100 m kg
S RDV 100	102/4	261406	97
S RDV 150	152/5,9	261505	129
S RDV 200	202/7,9	261604	177
S RDV 300	302/11,8	261802	260
S RDV 400	402/15,7	261901	340
S RDV 500	502/19,6	262007	420
S RDV 600	602/23,5	262205	500
F RDV 100 F	102/4	263608	97
F RDV 150 F	152/5,9	263707	129
F RDV 200 F	202/7,9	263806	177
F RDV 300 F	302/11,8	264001	260
F RDV 400 F	402/15,7	264100	340
F RDV 500 F	502/19,6	264209	420
F RDV 600 F	602/23,5	264407	500
E3 RDV 100 E3	102/4	336906	97
E3 RDV 200 E3	202/7,9	337002	177
E3 RDV 300 E3	302/11,8	337101	257
E3 RDV 400 E3	402/15,7	337200	340
E3 RDV 500 E3	502/19,6	337309	420
E3 RDV 600 E3	602/23,5	337507	500
E5 RDV 100 E5	100/3,9	891009	80
E5 RDV 200 E5	200/7,8	891023	143
E5 RDV 300 E5	300/11,7	891047	209
E5 RDV 400 E5	400/15,6	891061	273

Turn-bolt locks for finish E3 and E5 are always made of stainless steel type E5.

For: all straight sections of cable tray (other than RSV 50...) as well as for KL 60 and KL 100 cable ladders

For outdoor service covers need to be secured against windloads using heavy duty cover clamps or steel cable ties.

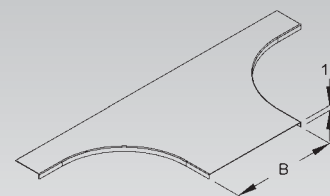


CABLE TRAY SYSTEM COVERS

Cover for Horizontal Extension Tee

model no.	inside dimension (B) mm/Inch	EAN code	Weight per 100 pc. kg
S RTAD 100	104/4,1	266906	50
S RTAD 150	154/6	267002	60
S RTAD 200	204/8	267101	70
S RTAD 300	304/11,9	267309	90
S RTAD 400	404/15,8	267408	140
S RTAD 500	504/19,7	267507	160
S RTAD 600	604/23,6	267705	190
F RTAD 100 F	104/4,1	558100	50
F RTAD 150 F	154/6	558209	60
F RTAD 200 F	204/8	558308	70
F RTAD 300 F	304/11,9	558506	90
F RTAD 400 F	404/15,8	558605	140
F RTAD 500 F	504/19,7	558704	160
F RTAD 600 F	604/23,6	558902	190

For: type RTA extension horizontal tees for cable trays



Cover for Horizontal Extension Tee

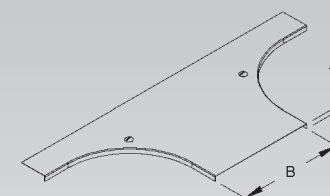
with turnbolt locks

model no.	inside dimension (B) mm/Inch	EAN code	Weight per 100 pc. kg
S RTADV 100	104/4,1	277100	50
S RTADV 150	154/6	277209	60
S RTADV 200	204/8	277308	70
S RTADV 300	304/11,9	274802	90
S RTADV 400	404/15,8	277506	140
S RTADV 500	504/19,7	277605	160
S RTADV 600	604/23,6	277803	190
F RTADV 100 F	104/4,1	559008	50
F RTADV 150 F	154/6	559107	60
F RTADV 200 F	204/8	559206	70
F RTADV 300 F	304/11,9	559404	90
F RTADV 400 F	404/15,8	559503	140
F RTADV 500 F	504/19,7	559602	160
F RTADV 600 F	604/23,6	559800	190
E3 RTADV 100 E3	104/4,1	339600	50
E3 RTADV 200 E3	204/8	339709	70
E3 RTADV 300 E3	304/11,9	339808	90
E3 RTADV 400 E3	404/15,8	339907	140
E3 RTADV 500 E3	504/19,7	340002	160
E3 RTADV 600 E3	604/23,6	340101	190

Turn-bolt locks for finish F and E3 are always made of stainless steel type E5.

For: type RTA extension horizontal tees for cable trays

For outdoor service covers need to be secured against windloads using heavy duty cover clamps or steel cable ties.



Cover for Flexible Fitting

model no.	inside dimension (B) mm/Inch	EAN code	Weight per 100 pc. kg
S RBAVD 100	104/4,1	922529	32,5
S RBAVD 150	154/6	930463	61
S RBAVD 200	204/8	922543	98
S RBAVD 300	304/11,9	922567	198,2
S RBAVD 400	404/15,8	922581	332,6
S RBAVD 500	504/19,7	922604	501,8
S RBAVD 600	604/23,6	922628	705,2

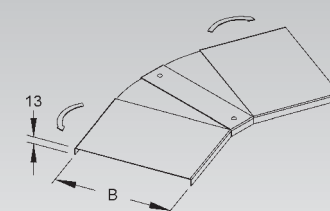
adjustable from 0 - 90°

For: flexible horizontal elbow RBAV...

Covers are attached by using stainless steel clamp RDHF 9 E2. For horizontal mounting only.

For outdoor service covers need to be secured against windloads using heavy duty cover clamps or steel cable ties.

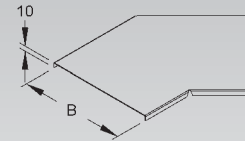
4x RDHF 9 E2 cover clips required per cover. Please order separately.



Cover for 45° Horizontal Elbow

model no.	inside dimension (B) mm/Inch	EAN code	Weight per 100 pc. kg
S RBAD 100	104/4,1	264506	22,8
S RBAD 150	154/6	264605	35
S RBAD 200	204/8	264704	48,8
S RBAD 300	304/11,9	264902	81,2
S RBAD 400	404/15,8	265008	120,1
S RBAD 500	504/19,7	265107	165,6
S RBAD 600	604/23,6	265305	217,5
F RBAD 100 F	104/4,1	554508	24,5
F RBAD 150 F	154/6	554607	37,6
F RBAD 200 F	204/8	554706	52,4
F RBAD 300 F	304/11,9	554904	87,3
F RBAD 400 F	404/15,8	555000	129,1
F RBAD 500 F	504/19,7	555109	178
F RBAD 600 F	604/23,6	555307	233,8

For: horizontal 45° bends for cable trays, type RBA...



Cover for 45° Horizontal Elbow

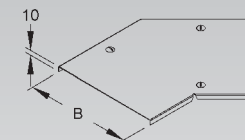
with turnbolt locks

model no.	inside dimension (B) mm/Inch	EAN code	Weight per 100 pc. kg
S RBADV 100	104/4,1	275106	24,5
S RBADV 150	154/6	275205	36,6
S RBADV 200	204/8	275304	50,4
S RBADV 300	304/11,9	275502	82,8
S RBADV 400	404/15,8	275601	121,7
S RBADV 500	504/19,7	275700	167,2
S RBADV 600	604/23,6	275908	219,1
F RBADV 100 F	104/4,1	555406	27,3
F RBADV 150 F	154/6	555505	40,4
F RBADV 200 F	204/8	555604	55,2
F RBADV 300 F	304/11,9	555802	90,1
F RBADV 400 F	404/15,8	555901	131,9
F RBADV 500 F	504/19,7	556007	180,8
F RBADV 600 F	604/23,6	556205	236,7

Turn-bolt locks for finish F are always made of stainless steel type E5.

For: horizontal 45° bends for cable trays, type RBA...

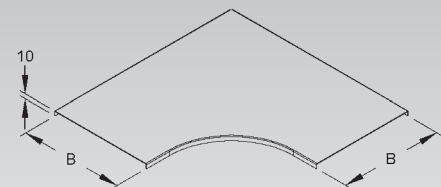
For outdoor service covers need to be secured against windloads using heavy duty cover clamps or steel cable ties.



Cover for 90° Horizontal Elbow

model no.	inside dimension (B) mm/Inch	EAN code	Weight per 100 pc. kg
S RESD 100	104/4,1	265701	37,4
S RESD 150	154/6	265800	75,4
S RESD 200	204/8	265909	95,2
S RESD 300	304/11,9	266104	159,8
S RESD 400	404/15,8	266203	265,1
S RESD 500	504/19,7	266302	368,5
S RESD 600	604/23,6	266500	487,7
F RESD 100 F	104/4,1	556304	39,9
F RESD 150 F	154/6	556403	81
F RESD 200 F	204/8	556502	101,7
F RESD 300 F	304/11,9	556700	170,7
F RESD 400 F	404/15,8	556809	283,2
F RESD 500 F	504/19,7	556908	393,6
F RESD 600 F	604/23,6	557103	520,9

For: horizontal 45° bends for cable trays, type RES... and RESS...



CABLE TRAY SYSTEM COVERS

Cover for 90° Horizontal Elbow

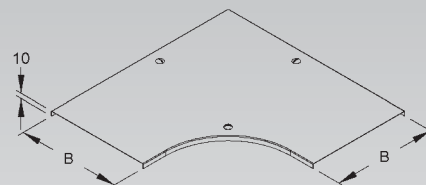
with turnbolt locks

model no.	inside dimension (B) mm/Inch	EAN code	Weight per 100 pc. kg
S RESDV 100	104/4,1	276202	38,8
S RESDV 150	154/6	276301	77
S RESDV 200	204/8	275007	96,9
S RESDV 300	304/11,9	274901	161,5
S RESDV 400	404/15,8	276509	266,8
S RESDV 500	504/19,7	276608	370,1
S RESDV 600	604/23,6	276806	489,3
F RESDV 100 F	104/4,1	557202	42,8
F RESDV 150 F	154/6	557301	83,9
F RESDV 200 F	204/8	557400	104,6
F RESDV 300 F	304/11,9	557608	173,6
F RESDV 400 F	404/15,8	557707	286,1
F RESDV 500 F	504/19,7	557806	396,5
F RESDV 600 F	604/23,6	558001	523,8
E3 RESDV 100 E3	104/4,1	338405	42,5
E3 RESDV 200 E3	204/8	338504	87,3
E3 RESDV 300 E3	304/11,9	338603	144,8
E3 RESDV 400 E3	404/15,8	338702	267,8
E3 RESDV 500 E3	504/19,7	338801	371,1
E3 RESDV 600 E3	604/23,6	338900	490,3

Turn-bolt locks for finish F and E3 are always made of stainless steel type E5.

For: horizontal 90° bends for cable trays, type RES... and RESS...

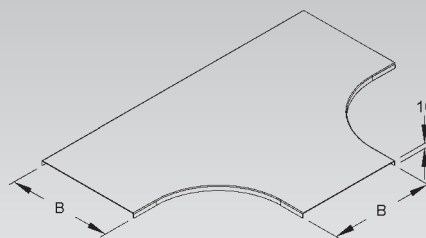
For outdoor service covers need to be secured against windloads using heavy duty cover clamps or steel cable ties.



Cover for Horizontal Tee

model no.	inside dimension (B) mm/Inch	EAN code	Weight per 100 pc. kg
S RTSD 100	104/4,1	268108	50
S RTSD 150	154/6	268207	80
S RTSD 200	204/8	268306	100
S RTSD 300	304/11,9	268504	180
S RTSD 400	404/15,8	268603	230
S RTSD 500	504/19,7	268702	440
S RTSD 600	604/23,6	268900	570
F RTSD 100 F	104/4,1	559909	50
F RTSD 150 F	154/6	560004	80
F RTSD 200 F	204/8	560103	100
F RTSD 300 F	304/11,9	560301	180
F RTSD 400 F	404/15,8	560400	230
F RTSD 500 F	504/19,7	560509	440
F RTSD 600 F	604/23,6	560707	570

For: cable tray horizontal tee, type RTS...



Cover for Horizontal Tee

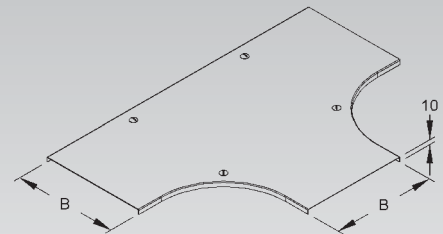
with turnbolt locks

model no.	inside dimension (B) mm/Inch	EAN code	Weight per 100 pc. kg
S RTSDV 100	104/4,1	277902	50
S RTSDV 150	154/6	278008	80
S RTSDV 200	204/8	274703	100
S RTSDV 300	304/11,9	278206	180
S RTSDV 400	404/15,8	278305	230
S RTSDV 500	504/19,7	278404	440
S RTSDV 600	604/23,6	278602	570
F RTSDV 100 F	104/4,1	560806	50
F RTSDV 150 F	154/6	560905	80
F RTSDV 200 F	204/8	561001	100
F RTSDV 300 F	304/11,9	561209	180
F RTSDV 400 F	404/15,8	561308	230
F RTSDV 500 F	504/19,7	561407	440
F RTSDV 600 F	604/23,6	561605	570

Turn-bolt locks for finish F are always made of stainless steel type E5.

For: cable tray horizontal tee, type RTS...

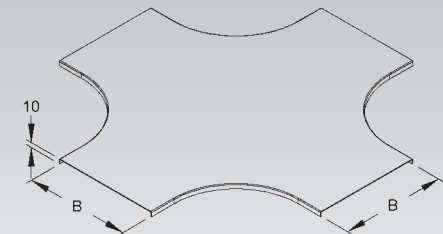
For outdoor service covers need to be secured against windloads using heavy duty cover clamps or steel cable ties.



Cover for Horizontal Cross

model no.	inside dimension (B) mm/Inch	EAN code	Weight per 100 pc. kg
S RKSD 100	104/4,1	269006	93,1
S RKSD 150	154/6	269105	133,1
S RKSD 200	204/8	269204	177,1
S RKSD 300	304/11,9	269402	276,8
S RKSD 400	404/15,8	269501	392,2
S RKSD 500	504/19,7	269600	523,3
S RKSD 600	604/23,6	269808	670,1
F RKSD 100 F	104/4,1	561704	100,1
F RKSD 150 F	154/6	561803	143,2
F RKSD 200 F	204/8	561902	190,4
F RKSD 300 F	304/11,9	562107	297,6
F RKSD 400 F	404/15,8	562206	421,6
F RKSD 500 F	504/19,7	562305	562,6
F RKSD 600 F	604/23,6	562503	720,4

For: cable tray horizontal cross, type RKS...



Cover for Horizontal Cross

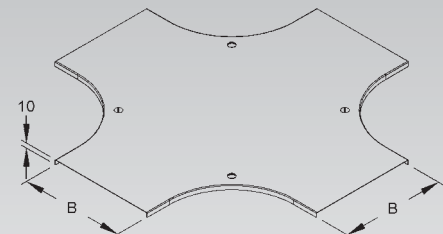
with turnbolt locks

model no.	inside dimension (B) mm/Inch	EAN code	Weight per 100 pc. kg
S RKSDV 100	104/4,1	278701	96,4
S RKSDV 150	154/6	278800	136,4
S RKSDV 200	204/8	278909	180,4
S RKSDV 300	304/11,9	279104	280,1
S RKSDV 400	404/15,8	279203	395,5
S RKSDV 500	504/19,7	279302	526,6
S RKSDV 600	604/23,6	279500	673,4
F RKSDV 100 F	104/4,1	562602	103,6
F RKSDV 150 F	154/6	562701	146,6
F RKSDV 200 F	204/8	562800	193,9
F RKSDV 300 F	304/11,9	563005	301,1
F RKSDV 400 F	404/15,8	563104	425,1
F RKSDV 500 F	504/19,7	563203	566
F RKSDV 600 F	604/23,6	563401	723,8

Turn-bolt locks for finish F are always made of stainless steel type E5.

For: cable tray horizontal cross, type RKS...

For outdoor service covers need to be secured against windloads using heavy duty cover clamps or steel cable ties.



CABLE TRAY SYSTEM COVERS

Cover for Vertical Inside/Outside Elbow Kit

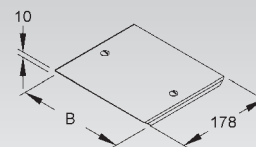
with turnbolt locks

model no.	height H mm/Inch	inside dimension (B) mm/Inch	EAN code	Weight per 100 pc. kg
S RFSDDV 60.100	60/2,3	104/4,1	844524	18
S RFSDDV 60.150	60/2,3	154/6	844562	25
S RFSDDV 60.200	60/2,3	204/8	844586	32
S RFSDDV 60.300	60/2,3	304/11,9	844623	46
S RFSDDV 60.400	60/2,3	404/15,8	844647	59,9
S RFSDDV 60.500	60/2,3	504/19,7	844661	73,9
S RFSDDV 60.600	60/2,3	604/23,6	844685	87,9

For: vertical inside/outside elbow kit with a side rail height of 60 mm, type RFD 60... and RSD 60...

For outdoor service covers need to be secured against windloads using heavy duty cover clamps or steel cable ties.

60



Cover for Vertical Outside Elbow Kit

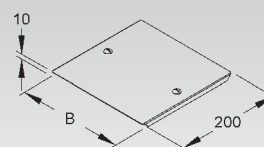
with turnbolt locks

model no.	height H mm/Inch	inside dimension (B) mm/Inch	EAN code	Weight per 100 pc. kg
S RFDDV 85.100	85/3,3	104/4,1	927845	20,7
S RFDDV 85.200	85/3,3	204/8	927869	36,4
S RFDDV 85.300	85/3,3	304/11,9	927883	52,1
S RFDDV 85.400	85/3,3	404/15,8	927906	67,8
S RFDDV 85.500	85/3,3	504/19,7	927920	83,5
S RFDDV 85.600	85/3,3	604/23,6	927944	99,2

For: vertical inside/outside elbow kit with a side rail height of 85 mm, type RFD 85...

For outdoor service covers need to be secured against windloads using heavy duty cover clamps or steel cable ties.

85



Cover for Vertical Inside Elbow

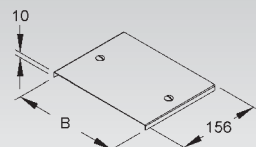
with turnbolt locks

model no.	height H mm/Inch	inside dimension (B) mm/Inch	EAN code	Weight per 100 pc. kg
S RSDDV 85.100	85/3,3	104/4,1	928323	16,4
S RSDDV 85.200	85/3,3	204/8	928347	28,7
S RSDDV 85.300	85/3,3	304/11,9	928361	40,9
S RSDDV 85.400	85/3,3	404/15,8	928385	53,2
S RSDDV 85.500	85/3,3	504/19,7	928408	65,4
S RSDDV 85.600	85/3,3	604/23,6	928422	77,7

For: cable tray vertical inside/outside elbow for side rail height of 85 mm, type RSD 85...

For outdoor service covers need to be secured against windloads using heavy duty cover clamps or steel cable ties.

85



Cover for Vertical Outside Elbow Kit

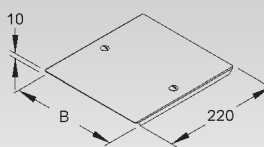
with turnbolt locks

model no.	height H mm/Inch	inside dimension (B) mm/Inch	EAN code	Weight per 100 pc. kg
S RFDDV 110.100	110/4,3	104/4,1	927968	22,6
S RFDDV 110.150	110/4,3	154/6	927975	31,2
S RFDDV 110.200	110/4,3	204/8	927982	39,9
S RFDDV 110.300	110/4,3	304/11,9	928002	57,1
S RFDDV 110.400	110/4,3	404/15,8	928026	74,4
S RFDDV 110.500	110/4,3	504/19,7	928040	91,7
S RFDDV 110.600	110/4,3	604/23,6	928064	108,9

For: vertical inside/outside elbow kit with a side rail height of 110 mm, type RFD 110...

For outdoor service covers need to be secured against windloads using heavy duty cover clamps or steel cable ties.

110



Cover for Vertical Inside Elbow

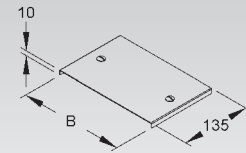
with turnbolt locks

model no.	height H mm/inch	inside dimension (B) mm/inch	EAN code	Weight per 100 pc. kg
S RSDDV 110.100	110/4,3	104/4,1	928446	14,4
S RSDDV 110.150	110/4,3	154/6	928453	19,7
S RSDDV 110.200	110/4,3	204/8	928460	25
S RSDDV 110.300	110/4,3	304/11,9	928484	35,6
S RSDDV 110.400	110/4,3	404/15,8	928507	46,2
S RSDDV 110.500	110/4,3	504/19,7	928521	56,8
S RSDDV 110.600	110/4,3	604/23,6	928545	67,4

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

For outdoor service covers need to be secured against windloads using heavy duty cover clamps or steel cable ties.

110



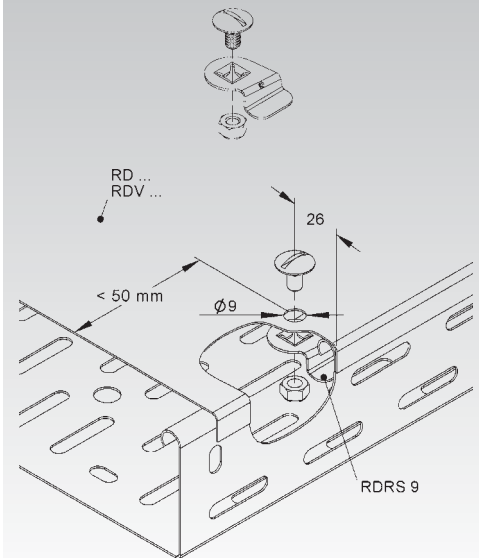
Turn-bolt Lock

model no.	EAN code	Weight per 100 pc. kg
S RDRS 9	269907	1,2
F RDRS 9 F	563463	1,6
E3 RDRS 9 E3	337705	1,6

for field modifications of covers

For: cable tray cover, type RD...

Turnbolt locks or cover clamps need to be installed at a minimum distance of 50 mm (2") from each end of the cover.



Turn-bolt Lock

model no.	EAN code	Weight per 100 pc. kg
S RDRS 2	270002	1,3
E3 RDRS 2 E3	337606	1,5

for field modifications of covers

For: Cable Tray Cover RDSV 100 and corresponding fittings

Turnbolt locks or cover clamps need to be installed at a minimum distance of 50 mm (2") from each end of the cover.



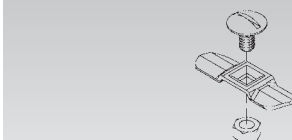
Turn-bolt Lock

model no.	EAN code	Weight per 100 pc. kg
S RDRS 2/50	270101	1,3
E3 RDRS 2/50 E3	337651	1,5

for field modifications of covers

For: Cable Tray Cover RDSV 50 and corresponding fittings

Turnbolt locks or cover clamps need to be installed at a minimum distance of 50 mm (2") from each end of the cover.



CABLE TRAY SYSTEM COVERS

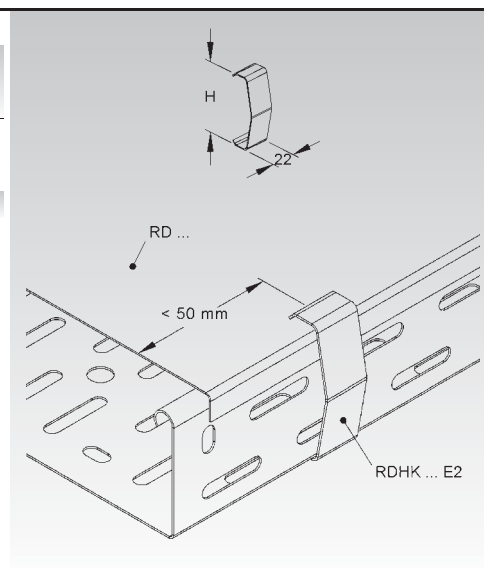
Cover Clamp

model no.	height H mm/Inch	EAN code	Weight per 100 pc. kg
E2 RDHK 60 E2	58/2,3	911851	2
E2 RDHK 110 E2	108/4,2	911868	3

for fixing covers on cable trays without using a turnbolt lock

For: cable tray cover, type RD...

For horizontally mounted covers only. Please maintain a minimum distance of 50 mm from both ends of the cover when installing the stainless steel clamp.



Cover Clamp

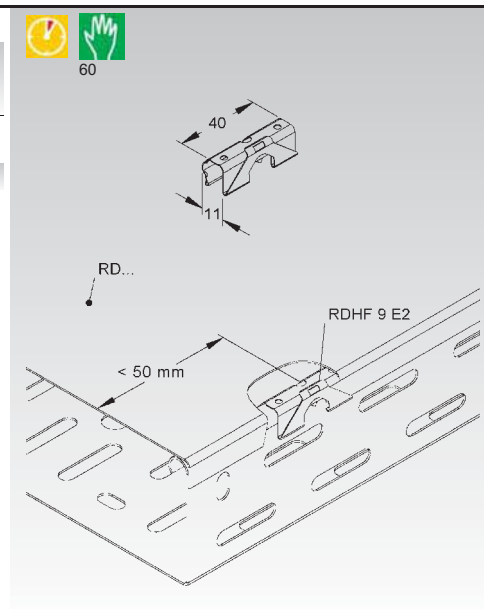
model no.	EAN code	Weight per 100 pc. kg
E2 RDHF 9 E2	920457	0,5

for fixing covers on cable trays without using a turnbolt lock

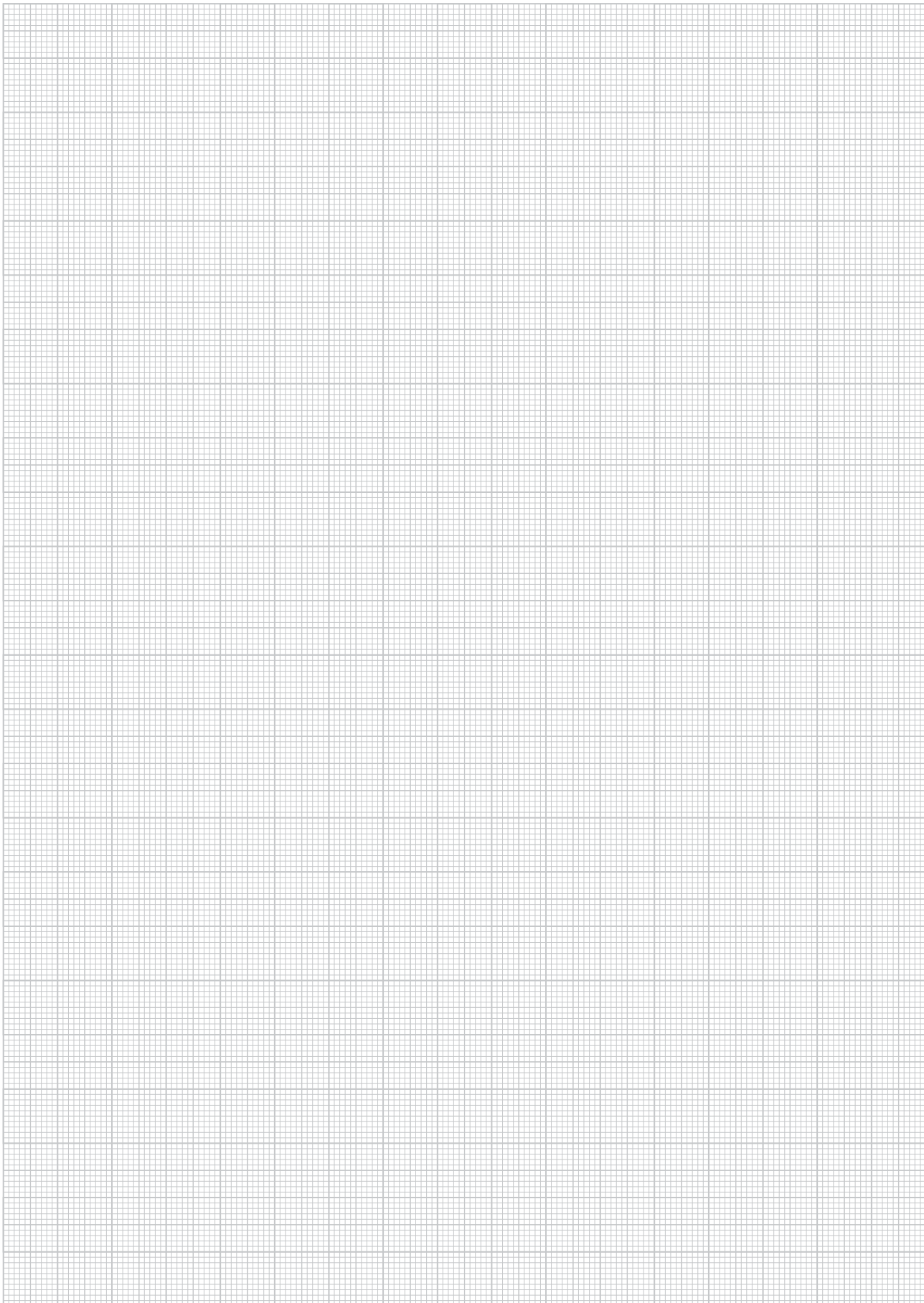
For: cable tray cover, type RD...

For horizontally mounted covers only. Please maintain a minimum distance of 50 mm from both ends of the cover when installing the stainless steel clamp RDHF 9 E2.

For outdoor service covers need to be secured against windloads using heavy duty cover clamps or steel cable ties.



NOTES

A large rectangular area filled with a fine grid of light gray lines, intended for taking notes or drawing. The grid consists of small squares, with a slightly larger square grid pattern overlaid in the center.

Walkable Cable Tray

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



All straight sections of cable tray as well as their corresponding system components (fittings, splice plates, covers, ...) are classified by UL in accordance with NEMA VE 1 for the USA and CSA E22.2 No. 126.1 for Canada.

Please add an 'X' after the first sequence of characters in the part number to get your products labeled for UL conformity (f.e. RLV 60.200 becomes RLVX 60.200 or GRS 110.300 becomes GR SX 110.300).



Niedax walkable cable tray was developed together with and especially for the automotive industry. Based on Niedax experience in manufacturing cable tray a special heavy duty version, that could be used as a walkway, was created. Different kinds of covers, ex. with aluminum checker plates are available. Flexible horizontal fittings allow an easy installation in between all kinds of production machinery like welding robots.



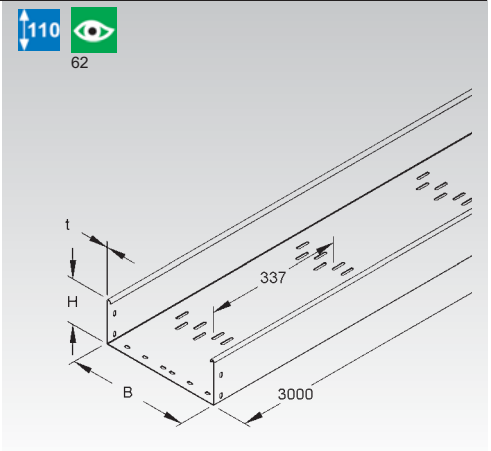
WALKABLE CABLE TRAY SYSTEM

Walkable Cable Tray

model no.	height H	width B	thick- ness t	EAN code	Weight per 100 m kg
	mm/Inch	mm/Inch	mm/Inch		
S RSQSL110.100OV	110/4,3	100/3,9	2	861804	523,3
S RSQSL110.200OV	110/4,3	200/7,8	2	861828	675
S RSQSL110.300OV	110/4,3	300/11,7	2	861842	827,3
S RSQSL110.400OV	110/4,3	400/15,6	2	861866	980,3
S RSQSL110.500OV	110/4,3	500/19,5	2	861873	1131,7
S RSQSL110.600OV	110/4,3	600/23,4	2	861897	1286

special perforation in bottom allows easy mounting of dividers

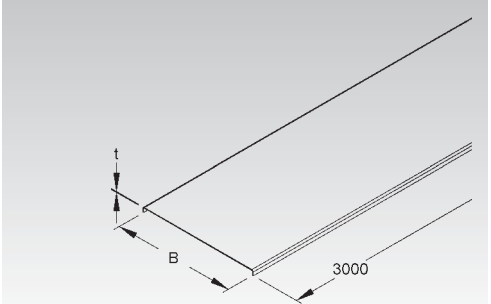
Splice plates RSUV 110-1.5 have to be ordered separately.



Heavy Duty Cover for Cable Tray

model no.	inside dimension (B)	thick- ness t	EAN code	Weight per 100 m kg
	mm/Inch	mm/Inch		
S RDS 100	105/4,1	2	936069	198,5
S RDS 200	205/8	2	936083	358,6
S RDS 300	305/11,9	2	936106	515,6
S RDS 400	405/15,8	2	936120	672,6
S RDS 500	505/19,7	2	936144	829,6
S RDS 600	605/23,6	2	936168	986,6

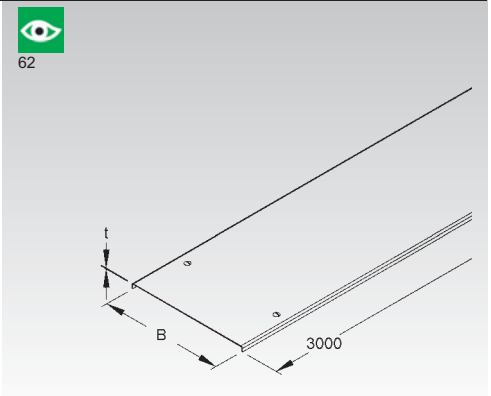
The RDHFS 9 V clamp could be used to fix the RDS... cover onto the tray.



Heavy Duty Cover for Cable Tray

with reinforced turn-bolt lock

model no.	inside dimension (B)	thick- ness t	EAN code	Weight per 100 m kg
	mm/Inch	mm/Inch		
S RDVS 100	105/4,1	2	855605	198
S RDVS 200	205/8	2	855629	351,7
S RDVS 300	305/11,9	2	855643	508,7
S RDVS 400	405/15,8	2	855667	665,7
S RDVS 500	505/19,7	2	855681	822,7
S RDVS 600	605/23,6	2	855704	979,7

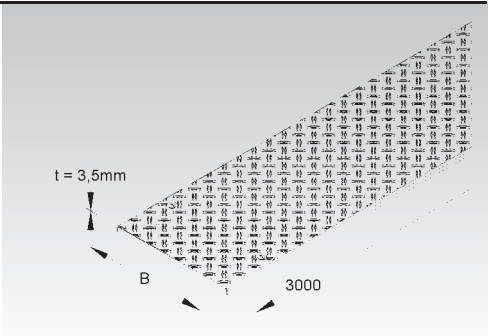


Walkable Cover for Heavy Duty Cable Tray

with reinforced turn-bolt lock and aluminum checker plate

model no.	inside dimension (B)	thick- ness t	EAN code	Weight per 100 m kg
	mm/Inch	mm/Inch		
S RDVSRSL 100	105/4,1	3,5	917464	246
S RDVSRSL 200	205/8	3,5	917488	448
S RDVSRSL 300	305/11,9	3,5	917501	654
S RDVSRSL 400	405/15,8	3,5	917525	859
S RDVSRSL 500	505/19,7	3,5	917549	1065
S RDVSRSL 600	605/23,6	3,5	917563	1270

Covers are made from a 2 mm steel panel and a 1.5 mm aluminum checker blade.

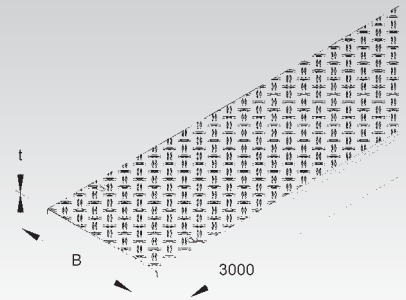


Walkable Cover for Heavy Duty Cable Tray

with reinforced turn-bolt lock and heavy duty aluminum checker plate

model no.	inside dimension (B)	thick-ness t	EAN code	Weight per 100 m kg
	mm/Inch	mm/Inch		
S RDVSR 100	105/4,1	4,5	862108	269
S RDVSR 200	205/8	4,5	862122	494,3
S RDVSR 300	305/11,9	4,5	862146	723,3
S RDVSR 400	405/15,8	4,5	862160	951,7
S RDVSR 500	505/19,7	4,5	862177	1180
S RDVSR 600	605/23,6	4,5	862191	1408,7

Covers are made from a 2 mm steel panel and a 2.5 mm aluminum checker blade.



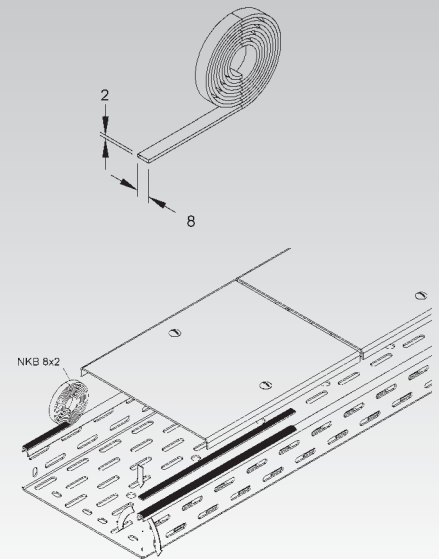
Neoprene Adhesive Tape, black

self-adhesive

model no.	height H	width B	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch		
K07 NKB 8X2	2/0,1	8/0,3	872091	0,1

to the return flange to protect short pieces of covers from sliding off

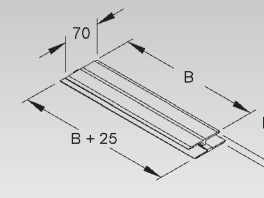
delivered in 10 meter length



Joint for Walkable Cable Tray Covers

model no.	height H	width B	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch		
AL DSBA 100	16/0,6	75/2,9	872008	8,4
AL DSBA 200	16/0,6	175/6,8	872022	19,6
AL DSBA 300	16/0,6	275/10,7	872046	30,8
AL DSBA 400	16/0,6	375/14,6	872053	42
AL DSBA 500	16/0,6	475/18,5	872060	53,2
AL DSBA 600	16/0,6	575/22,4	872084	64,4

to join walkable tray covers



Barrier Strip

perforated angle iron

model no.	height H	thick-ness t	acc. incl.	EAN code	Weight per 100 m kg
	mm/Inch	mm/Inch			
S RWTS 110-1.5	108/4,2	1,5	4 FLM 6x12	861934	170,3
S RWTS 110-2.0	108/4,2	2	4 FLM 6x12	861965	227,3

Recommended number of barrier strips to support the walkable cover:

width = 100 mm - 0 pieces

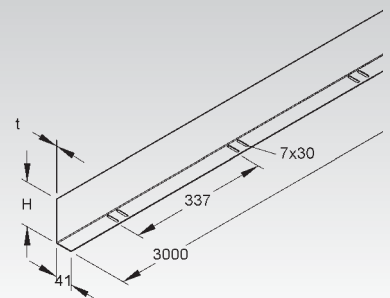
width = 200 mm - 1 piece

width = 300 mm - 1 piece

width = 400 mm - 2 pieces

width = 500 mm - 2 pieces

width = 600 mm - 3 pieces

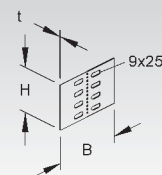


WALKABLE CABLE TRAY SYSTEM

Universal Splice Plate

model no.	height H	width B	thick- ness t	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch			
S RSUV 110-1.5	102/4	150/5,8	1,5	4 FLM 6x12	862009	16

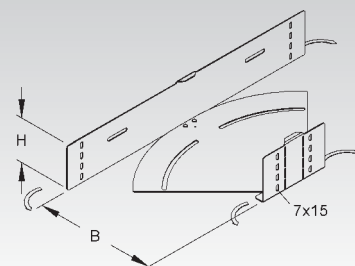
for making horizontal joints of cable trays



Flexible Horizontal Elbow 0-90°

model no.	height H	inside dimension (B)	thick- ness t	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch			
S RBAVS 110.100	110/4,3	102/4	2	10 FLM 6x12	924042	120
S RBAVS 110.200	110/4,3	202/7,9	2	10 FLM 6x12	924066	190
S RBAVS 110.300	110/4,3	302/11,8	2	10 FLM 6x12	924080	290
S RBAVS 110.400	110/4,3	402/15,7	2	10 FLM 6x12	924103	400
S RBAVS 110.500	110/4,3	502/19,6	2	14 FLM 6x12	924127	550
S RBAVS 110.600	110/4,3	602/23,5	2	14 FLM 6x12	924141	720

Solid side plate with punched holes for splices.



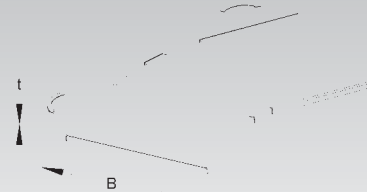
Heavy Duty Cover for Flexible Fitting

model no.	inside dimension (B)	thick- ness t	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch		
S RBAVDS 100	105/4,1	2	924165	170
S RBAVDS 200	205/8	2	924189	310
S RBAVDS 300	305/11,9	2	924202	510
S RBAVDS 400	405/15,8	2	924226	780
S RBAVDS 500	505/19,7	2	924240	1110
S RBAVDS 600	605/23,6	2	924264	1520

adjustable from 0 - 90°

For: flexible heavy duty horizontal elbow RBAVS...

4x RDHF 9 E2 cover clips required per cover. Please order separately.



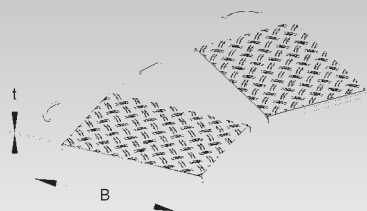
Walkable Cover for Heavy Duty Flexible Fitting

with heavy-duty aluminium checker blade

model no.	inside dimension (B)	thick- ness t	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch		
S RBAVDSRS 100	105/4,1	4,5	925322	180
S RBAVDSRS 200	205/8	4,5	925346	340
S RBAVDSRS 300	305/11,9	4,5	925360	580
S RBAVDSRS 400	405/15,8	4,5	925384	900
S RBAVDSRS 500	505/19,7	4,5	925407	1310
S RBAVDSRS 600	605/23,6	4,5	925421	1800

For: flexible heavy duty horizontal elbow RBAVS...

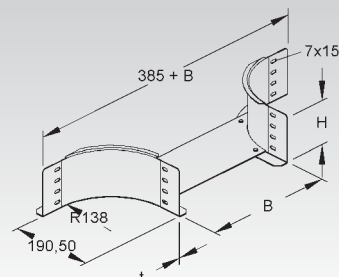
4x RDHF 9 E2 cover clips required per cover. Please order separately.



Extension Horizontal Tee

model no.	height H	inside dimension (B)	thick- ness t	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch			
S RTAS 110.100	110/4,3	100/3,9	2	10 FLM 6x12	862801	184
S RTAS 110.200	110/4,3	200/7,8	2	10 FLM 6x12	862825	207
S RTAS 110.300	110/4,3	300/11,7	2	10 FLM 6x12	862849	231
S RTAS 110.400	110/4,3	400/15,6	2	10 FLM 6x12	862856	255
S RTAS 110.500	110/4,3	500/19,5	2	10 FLM 6x12	862863	279
S RTAS 110.600	110/4,3	600/23,4	2	10 FLM 6x12	862887	304

Solid side plate with punched holes for splices, integrated splice for tee.

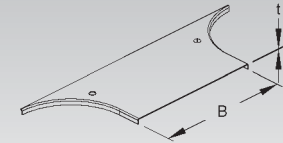


Cover for Horizontal Extension Tee

with turnbolt locks

model no.	inside dimension (B) mm/Inch	thick- ness t mm/Inch	EAN code	Weight per 100 pc. kg
S RTADVS 100	105/4,1	2	863600	58
S RTADVS 200	205/8	2	863624	88
S RTADVS 300	305/11,9	2	863648	113
S RTADVS 400	405/15,8	2	863655	134
S RTADVS 500	505/19,7	2	863662	180
S RTADVS 600	605/23,6	2	863686	192

For: extension horizontal tees, type RTAS...



Cover for Horizontal Extension Tee

with turnbolt locks and heavy duty aluminum checker plate

model no.	inside dimension (B) mm/Inch	thick- ness t mm/Inch	EAN code	Weight per 100 pc. kg
S RTADVSR 100	105/4,1	4,5	863808	106
S RTADVSR 200	205/8	4,5	863822	132
S RTADVSR 300	305/11,9	4,5	863846	196
S RTADVSR 400	405/15,8	4,5	863853	218
S RTADVSR 500	505/19,7	4,5	863860	295
S RTADVSR 600	605/23,6	4,5	863884	334

For: extension horizontal tees, type RTAS...

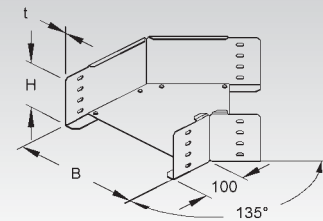


Horizontal Elbow 45°

model no.	height H mm/Inch	inside dimension (B) mm/Inch	thick- ness t mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RBAS 110.100	110/4,3	100/3,9	2	4 FLM 6x12	862504	128
S RBAS 110.200	110/4,3	200/7,8	2	5 FLM 6x12	862528	186
S RBAS 110.300	110/4,3	300/11,7	2	5 FLM 6x12	862542	266
S RBAS 110.400	110/4,3	400/15,6	2	6 FLM 6x12	862566	354
S RBAS 110.500	110/4,3	500/19,5	2	6 FLM 6x12	862573	472
S RBAS 110.600	110/4,3	600/23,4	2	6 FLM 6x12	862597	690

Solid side plate with integrated prepunched splice plates.

110

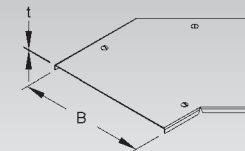


Cover for 45° Horizontal Elbow

with turnbolt locks

model no.	inside dimension (B) mm/Inch	thick- ness t mm/Inch	EAN code	Weight per 100 pc. kg
S RBADVS 100	105/4,1	2	863105	50
S RBADVS 200	205/8	2	863129	102
S RBADVS 300	305/11,9	2	863143	190
S RBADVS 400	405/15,8	2	863167	240
S RBADVS 500	505/19,7	2	863174	310
S RBADVS 600	605/23,6	2	863198	440

For: horizontal 45° bends, type RBAS...



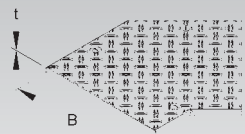
Cover for 45° Horizontal Elbow

with turnbolt locks and heavy duty aluminum checker plate

model no.	inside dimension (B) mm/Inch	thick- ness t mm/Inch	EAN code	Weight per 100 pc. kg
S RBADVSR 100	105/4,1	4,5	863303	67
S RBADVSR 200	205/8	4,5	863327	142
S RBADVSR 300	305/11,9	4,5	863341	260
S RBADVSR 400	405/15,8	4,5	863365	340
S RBADVSR 500	505/19,7	4,5	863372	455
S RBADVSR 600	605/23,6	4,5	863396	630

Covers are made from a 2 mm steel panel and a 2.5 mm aluminum checker blade.

For: horizontal 45° bends, type RBAS...



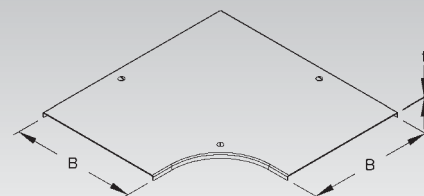
WALKABLE CABLE TRAY SYSTEM

Cover for 90° Horizontal Elbow

with turnbolt locks

model no.	inside dimension (B)	thickness t	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch		
S RESDVS 100	105/4,1	2	863501	107
S RESDVS 200	205/8	2	863525	208
S RESDVS 300	305/11,9	2	863549	351
S RESDVS 400	405/15,8	2	863563	586
S RESDVS 500	505/19,7	2	863570	738
S RESDVS 600	605/23,6	2	863594	958

For: horizontal 90° bends, type RESS...

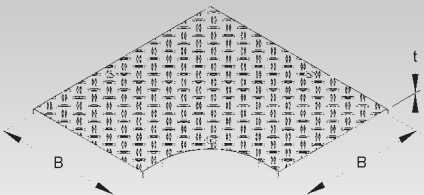


Cover for 90° Horizontal Elbow

with turnbolt locks and heavy duty aluminum checker plate

model no.	inside dimension (B)	thickness t	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch		
S RESDVSR 100	105/4,1	4,5	863709	152
S RESDVSR 200	205/8	4,5	863723	294
S RESDVSR 300	305/11,9	4,5	863747	493
S RESDVSR 400	405/15,8	4,5	863761	798
S RESDVSR 500	505/19,7	4,5	863778	1034
S RESDVSR 600	605/23,6	4,5	863792	1350

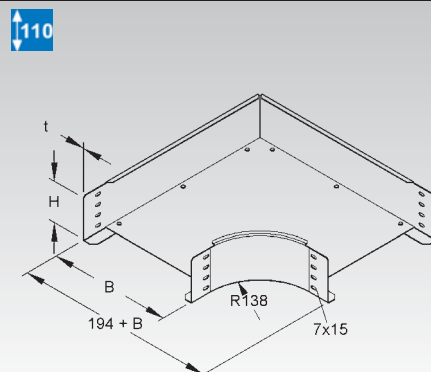
For: horizontal 90° bends, type RESS...



Horizontal Elbow 90°

model no.	height H	inside dimension (B)	thickness t	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch			
S RESS 110.100	110/4,3	100/3,9	2	4 FLM 6x12	862702	246
S RESS 110.200	110/4,3	200/7,8	2	5 FLM 6x12	862726	390
S RESS 110.300	110/4,3	300/11,7	2	5 FLM 6x12	862740	580
S RESS 110.400	110/4,3	400/15,6	2	6 FLM 6x12	862764	768
S RESS 110.500	110/4,3	500/19,5	2	6 FLM 6x12	862771	1030
S RESS 110.600	110/4,3	600/23,4	2	6 FLM 6x12	862795	1381

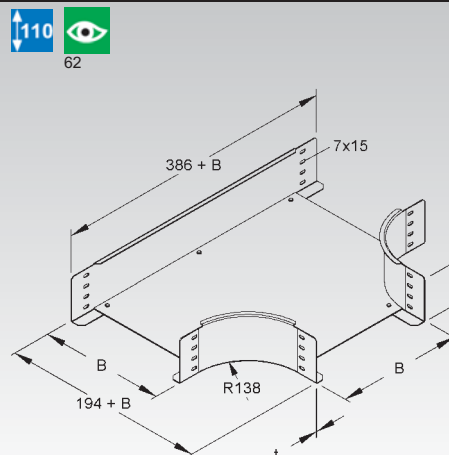
Solid side plate with integrated prepunched splice plates.



Horizontal Tee

model no.	height H	inside dimension (B)	thickness t	acc. incl.	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch	mm/Inch			
S RTSS 110.100	110/4,3	100/3,9	2	8 FLM 6x12	862900	327
S RTSS 110.200	110/4,3	200/7,8	2	8 FLM 6x12	862924	480
S RTSS 110.300	110/4,3	300/11,7	2	10 FLM 6x12	862948	648
S RTSS 110.400	110/4,3	400/15,6	2	12 FLM 6x12	862962	890
S RTSS 110.500	110/4,3	500/19,5	2	12 FLM 6x12	862979	1130
S RTSS 110.600	110/4,3	600/23,4	2	12 FLM 6x12	862993	1425

Solid side plate with integrated prepunched splice plates.

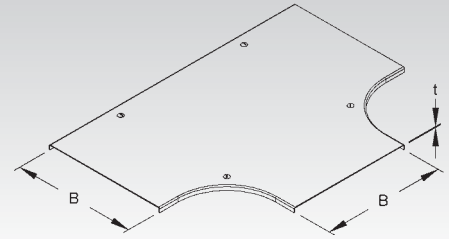


Heavy Duty Cover for Horizontal Tee

with turnbolt locks

model no.	inside dimension (B) mm/Inch	thick- ness t mm/Inch	EAN code	Weight per 100 pc. kg
S RTSDVS 100	105/4,1	2	863907	142
S RTSDVS 200	205/8	2	863921	281
S RTSDVS 300	305/11,9	2	863945	446
S RTSDVS 400	405/15,8	2	863969	643
S RTSDVS 500	505/19,7	2	863976	892
S RTSDVS 600	605/23,6	2	863990	1136

For: horizontal tees, type RTSS...

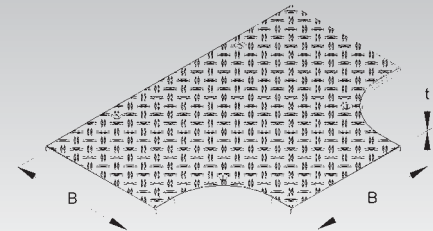


Walkable Cover for Heavy Duty Horizontal Tee

with turnbolt locks and heavy duty aluminum checker plate

model no.	inside dimension (B) mm/Inch	thick- ness t mm/Inch	EAN code	Weight per 100 pc. kg
S RTSDVSRs 100	105/4,1	4,5	864102	212
S RTSDVSRs 200	205/8	4,5	864126	413
S RTSDVSRs 300	305/11,9	4,5	864140	655
S RTSDVSRs 400	405/15,8	4,5	864164	980
S RTSDVSRs 500	505/19,7	4,5	864171	1290
S RTSDVSRs 600	605/23,6	4,5	864195	1662

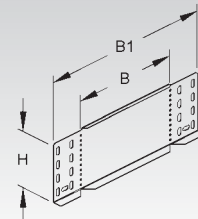
For: horizontal tees, type RTSS...



Reducer / Blind End

model no.	height H mm/Inch	width B mm/Inch	width B1 mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RA 110.050	110/4,3	50/2	172	4 FLM 6x12	764105	15
S RA 110.200	110/4,3	200/7,8	322	4 FLM 6x12	764402	31
S RA 110.400	110/4,3	400/15,6	522	4 FLM 6x12	764808	52
S RA 110.500	110/4,3	500/19,5	622	4 FLM 6x12	764907	62
S RA 110.600	110/4,3	600/23,4	722	4 FLM 6x12	858606	73

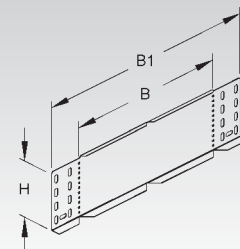
To form a closure for a dead end cable tray or for joining cable trays of different width.



Adjustable Splice / Reducer / Blind End

model no.	height H mm/Inch	width B mm/Inch	width B1 mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RAW 110.100	110/4,3	100/3,9	222	4 FLM 6x12	764204	21
S RAW 110.300	110/4,3	300/11,7	422	4 FLM 6x12	764600	41

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

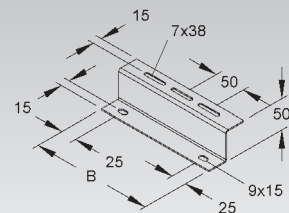


Floor Mounting Bracket (height: 50 mm)

with slotted holes

model no.	height H mm/Inch	width B mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RZP 50/100	50/2	100/3,9	2 FLM 6x12	191833	16
S RZP 50/200	50/2	200/7,8	2 FLM 6x12	847907	32
S RZP 50/300	50/2	300/11,7	2 FLM 6x12	847921	48
S RZP 50/400	50/2	400/15,6	2 FLM 6x12	847945	64
S RZP 50/500	50/2	500/19,5	2 FLM 6x12	847969	80
S RZP 50/600	50/2	600/23,4	2 FLM 6x12	847983	96

Alternate mounting of Z-shaped bracket is highly recommended.



WALKABLE CABLE TRAY SYSTEM

Floor Mounting Bracket (height: 80 mm)

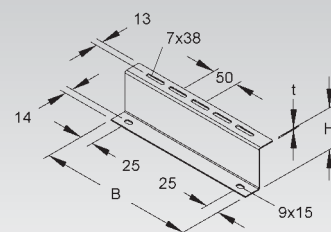
with slotted holes

model no.	height H	width B	thick- ness t	acc. incl.	EAN code	Weight per 100 pc. kg
mm/Inch	mm/Inch	mm/Inch	mm/Inch			
S RZP 80/100	80/3,1	100/3,9	2	2 FLM 6x12	191864	20
S RZP 80/200	80/3,1	200/7,8	2	2 FLM 6x12	861200	41
S RZP 80/300	80/3,1	300/11,7	2	2 FLM 6x12	861224	61
S RZP 80/400	80/3,1	400/15,6	2	2 FLM 6x12	861248	82
S RZP 80/500	80/3,1	500/19,5	2	2 FLM 6x12	861262	102
S RZP 80/600	80/3,1	600/23,4	2	2 FLM 6x12	861286	122
S RZP 80/1000	80/3,1	1000/39	2	3 FLM 6x12	861309	205
S RZP 80/2000	80/3,1	2000/78	2	5 FLM 6x12	861323	411
S RZP 80/3000	80/3,1	3000/117	2	7 FLM 6x12	861347	616

Alternate mounting of Z-shaped bracket is highly recommended.



62



Floor Mounting Bracket (height: 120 mm)

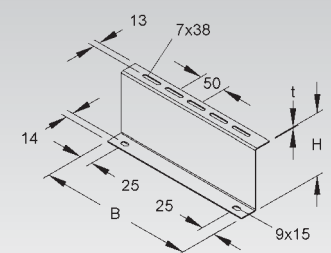
with slotted holes

model no.	height H	width B	thick- ness t	acc. incl.	EAN code	Weight per 100 pc. kg
mm/Inch	mm/Inch	mm/Inch	mm/Inch			
S RZP 120/100	120/4,7	100/3,9	2	2 FLM 6x12	861408	27
S RZP 120/200	120/4,7	200/7,8	2	2 FLM 6x12	861422	54
S RZP 120/300	120/4,7	300/11,7	2	2 FLM 6x12	861446	80
S RZP 120/400	120/4,7	400/15,6	2	2 FLM 6x12	861460	110
S RZP 120/500	120/4,7	500/19,5	2	2 FLM 6x12	861484	136
S RZP 120/600	120/4,7	600/23,4	2	2 FLM 6x12	861507	163
S RZP 120/1000	120/4,7	1000/39	2	3 FLM 6x12	861521	273
S RZP 120/2000	120/4,7	2000/78	2	5 FLM 6x12	861545	546
S RZP 120/3000	120/4,7	3000/117	2	7 FLM 6x12	861569	820

Alternate mounting of Z-shaped bracket is highly recommended.



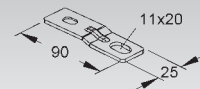
63



Floor Clamp

model no.	length A	width B	thick- ness t	EAN code	Weight per 100 pc. kg
mm/Inch	mm/Inch	mm/Inch	mm/Inch		
V RZPBL 25.90	90/3,5	25/1	3	861583	5

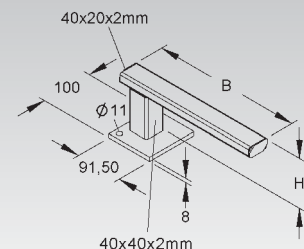
For clamping of pre-installed floor mounting brackets RZP... to the floor.



Floor Support

asymmetric, solid channel with closed ends

model no.	height H	width B	EAN code	Weight per 100 pc. kg
mm/Inch	mm/Inch	mm/Inch		
F RSSTAA 108.100	108/4,2	92/3,6	924288	95,7
F RSSTAA 108.200	108/4,2	192/7,5	924301	113,7
F RSSTAA 108.300	108/4,2	292/11,4	924325	131,8
F RSSTAA 108.400	108/4,2	392/15,3	924349	149,8
F RSSTAA 108.500	108/4,2	492/19,2	924363	167,5
F RSSTAA 108.600	108/4,2	592/23,1	924387	185,5

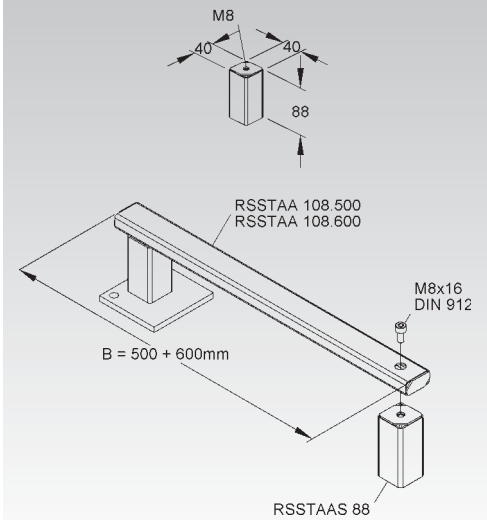


Please use extra support stand RSSTAAS 88 for RSSTAA 500 and 600 type asymmetrical floor supports.

Support Member

model no.	acc. incl.	EAN code	Weight per 100 pc. kg
F RSSTAAS 88	1 M 8x16 DIN 912	927241	25,8

For: extra supporting stand for RSSTAA 500 + 600 floor bracket



Turn-bolt Lock

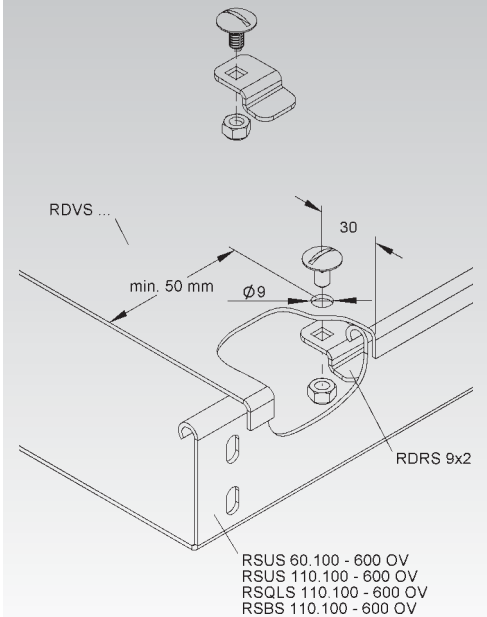
heavy duty version

model no.	thick-ness t mm/Inch	EAN code	Weight per 100 pc. kg
S RDRS 9X2	2	269884	2,1

for field modifications of covers

For: walkable cable tray cover, type RDVS..., RDVSRSL... and RDVSRs...

Turnbolt locks or cover clamps need to be installed at a minimum distance of 50 mm (2") from each end of the cover.



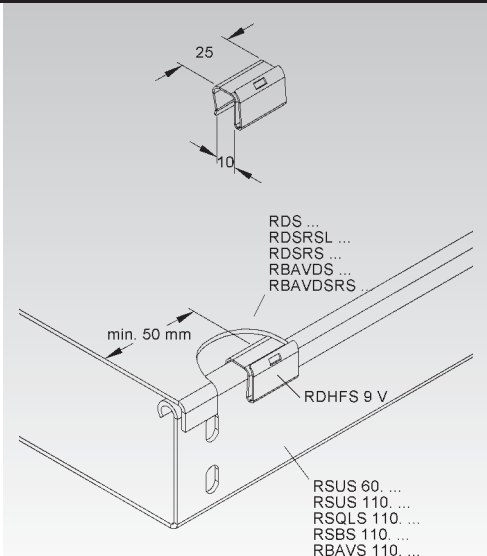
Heavy Duty Cover Clamp

model no.	EAN code	Weight per 100 pc. kg
V RDHFS 9 V	926282	0,9

For fixing covers on heavy duty cable tray and fittings.

For: Walkable cable tray and heavy duty fittings.

For horizontal mounting only. Turnbolt locks or cover clamps need to be installed at a minimum distance of 50 mm (2") from each end of the cover.



Cable Ladder System

☐ Cable Ladder

☐ Fittings

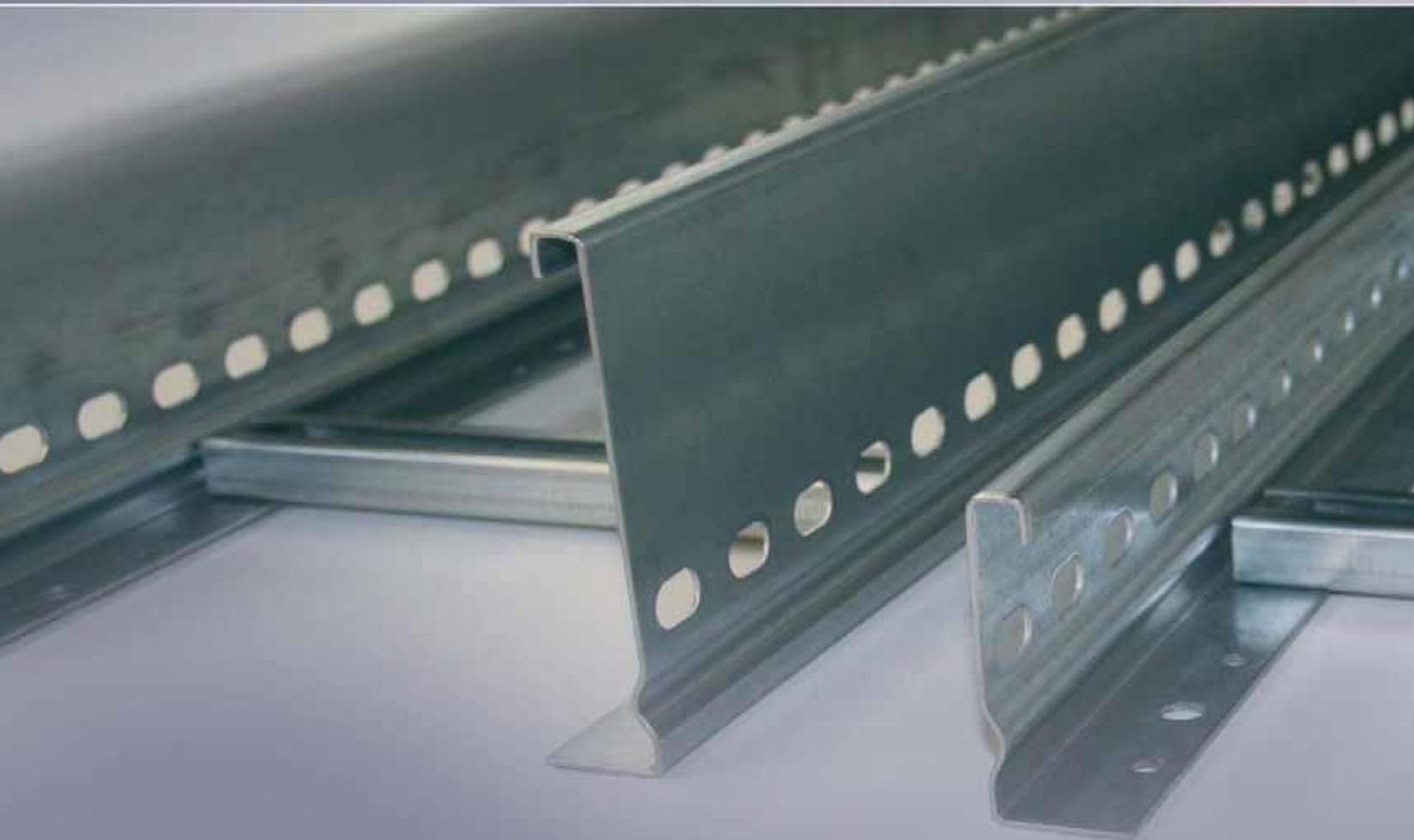
☐ Covers

☐ Accessories



All straight sections of cable tray as well as their corresponding system components (fittings, splice plates, covers, ...) are classified by UL in accordance with NEMA VE 1 for the USA and CSA E22.2 No. 126.1 for Canada.

Please add an 'X' after the first sequence of characters in the part number to get your products labeled for UL conformity (f.e. RLV 60.200 becomes RLVX 60.200 or GRS 110.300 becomes GR SX 110.300).



Cable ladders are ideal to install large volumes of heavy duty power cables. The long rung spacing means full free air rating of cables. Higher current flow can be achieved at the same cable cross-section. Overheating and consecutive damaging of cables is avoided.

The new shape of the side rail allows higher cable loads at similar support spans, the continuous perforation in the siderails guarantees easy mounting of fittings. Cables can be installed and fixed to the rungs using appropriate yoke clamps.

Niedax Cable ladders can be slit together to minimize transport and storage volume needs.



Cable Ladder Specifications:

A. CABLE TRAY DESIGN

1. Cable Tray shall be made of straight sections, fittings and accessories as defined in the latest NEMA standards per NEMA VE-1. Standard cable trays shall be UL classified as equipment grounding conductors.

B. MATERIAL

1. **Pre-galvanized steel.** The structural quality of the steel shall meet the minimum yield and tensile strength of the ASTM standards (ASTM A 653) with G 90 coating thickness.
All cable trays to be labeled for material identification purposes.
2. **Hot dipped galvanized steel.** All trays to be hot-dipped galvanized in accordance with ASTM A123.
All trays to be labeled for material identification.
3. **Stainless steel.** All trays are to be constructed of AISA type 304 or 316 stainless steel.
All trays to be labeled for material identification.

C. TRAY TYPES

1. **Ladder cable tray.** Ladder shall consist of two side-rails with rungs riveted to the bottom flange of the side-rails. Rungs shall be spaced 8" or 12" (200 or 300 mm) on center. Rungs shall not protrude below the bottom of the side-rail.

D. TRAY SIZE

1. **Height:** Ladder shall have an overall height of 4" (100 mm).
Minimum load depth shall be 3.5" (90 mm).
2. **Width:** Widths shall be 8", 12", 16", 20" and 24" (200, 300, 400, 500 and 600 mm)
3. **Length:** Length shall be a nominal 10' or 3 meters and 20' or 6 meters

E. ACCESSORIES

1. **Covers.** Covers shall be supplied to protect tray cable where needed. Covers will be solid and contain three pair of turn-bolt locks to secure the covers to the lips of the cable tray, requiring only the use of a slotted screwdriver.
2. **Splice plates.** Splice plates shall fasten to the outside of the cable tray side-rails and wrap around and snap onto each section of tray. Bolts and nuts are used to fasten to the tray and are included with splice plates.
Plates shall not exceed the NEMA VE-1 resistance of 330 micro ohms.
3. **Other accessories** shall be furnished as required to protect, support, and install a cable tray system.
Fittings shall made of the same material as the cable tray whenever possible.
Fittings can be of factory construction or also be of a type that allows field constructed fittings.

F. LOADING CAPABILITIES

1. Cable tray shall meet the load/span class designation in accordance with NEMA VE 1 and CSA E22.2 No 126.1.
Cable tray shall also meet load/span designation in accordance with IEC 61537

G. DESIGN AND MANUFACTURE

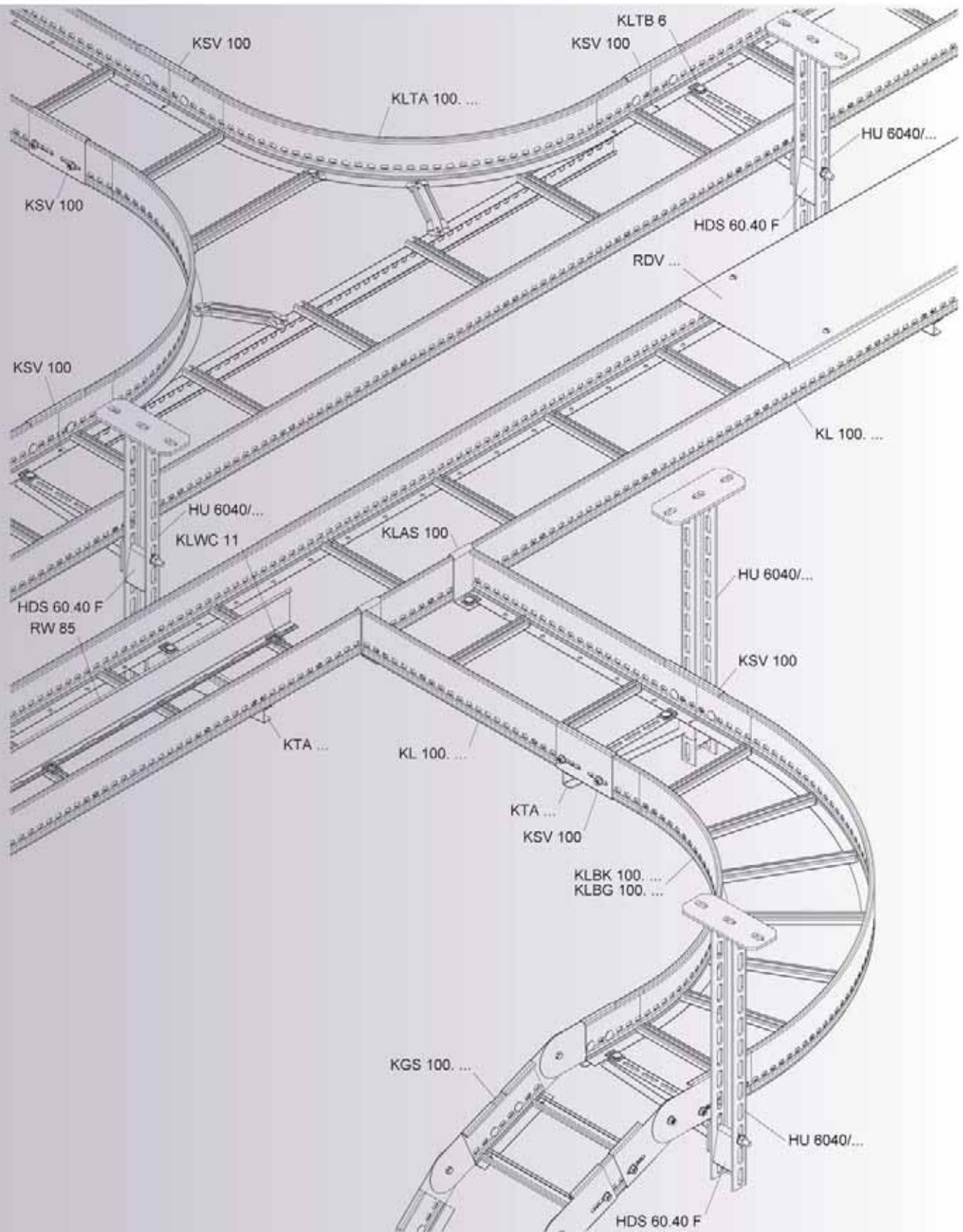
1. Cable tray design shall be manufactured by The NIEDAX Group.

Load / Span Class Designation in accordance with NEMA VE 1 and CSA E22.2 No. 126.1

NIEDAX Series	Minimum Area		Load class in accordance to NEMA VE 1		
	(calculational) mm ² / in. ²	in accordance to NEMA VE 2 mm ² / in. ²	Rated Load Kg/m / lb./ft.	Support spacing m / ft.	Load/Span Class
KLX 60.203, ... F	279.0 / 0.43	258 / 0.4	113 / 75.9	2 / 6.6	8A, A
KLX 60.303, ... F	279.0 / 0.43	258 / 0.4	113 / 75.9	2 / 6.6	8A, A
KLX 60.403, ... F	279.0 / 0.43	258 / 0.4	113 / 75.9	2 / 6.6	8A, A
KLX 60.503, ... F	279.0 / 0.43	258 / 0.4	113 / 75.9	2 / 6.6	8A, A
KLX 60.603, ... F	279.0 / 0.43	258 / 0.4	113 / 75.9	2 / 6.6	8A, A
KLX 60.203 E3, ... E5	252.0 / 0.39	129 / 0.2	113 / 75.9	2 / 6.6	8A, A
KLX 60.303 E3, ... E5	252.0 / 0.39	129 / 0.2	113 / 75.9	2 / 6.6	8A, A
KLX 60.403 E3, ... E5	252.0 / 0.39	129 / 0.2	113 / 75.9	2 / 6.6	8A, A
KLX 60.503 E3, ... E5	252.0 / 0.39	129 / 0.2	113 / 75.9	2 / 6.6	8A, A
KLX 60.603 E3, ... E5	252.0 / 0.39	129 / 0.2	113 / 75.9	2 / 6.6	8A, A
KLX 60.206 E3	252.0 / 0.39	129 / 0.2	113 / 75.9	2 / 6.6	8A, A
KLX 60.306 E3	252.0 / 0.39	129 / 0.2	113 / 75.9	2 / 6.6	8A, A
KLX 60.406 E3	252.0 / 0.39	129 / 0.2	113 / 75.9	2 / 6.6	8A, A
KLX 60.506 E3	252.0 / 0.39	129 / 0.2	113 / 75.9	2 / 6.6	8A, A
KLX 60.606 E3	252.0 / 0.39	129 / 0.2	113 / 75.9	2 / 6.6	8A, A
KLX 100.203, ... F	414.0 / 0.64	258 / 0.4	106.5 / 71.6	2 / 6.6	8A, A
KLX 100.303, ... F	414.0 / 0.64	258 / 0.4	106.5 / 71.6	2 / 6.6	8A, A
KLX 100.403, ... F	414.0 / 0.64	258 / 0.4	106.5 / 71.6	2 / 6.6	8A, A
KLX 100.503, ... F	414.0 / 0.64	258 / 0.4	106.5 / 71.6	2 / 6.6	8A, A
KLX 100.603, ... F	414.0 / 0.64	258 / 0.4	106.5 / 71.6	2 / 6.6	8A, A

Available Side Rail Heights

SYSTEM	Cable Ladder	KL	Page 216
ACCESSORIES	Splice Plate	KSV 100	Page 216
	Barrier Strip	RW 85	Page 216
	Splice Plate for Barrier Strip	RTV 85	Page 217
	Mounting Clamp for Barrier Strip	KLWC 11	Page 217
	Extension Horizontal Tee	KLTA	Page 217
	Horizontal Tee	KLT	Page 218
	Horizontal Cross	KLK	Page 218
	Horizontal Elbow 90°, small	KLBK	Page 218
	Large Elbow 90°	KLBG	Page 219
	Vertical Adjustable Splice Plate	KWV 100	Page 219
	Adjustable Elbow	KGS	Page 219
	Adjustable Splice Plate	KGV 100	Page 220
	Cable Ladder Connection Piece	KLAS 100	Page 220
	Pair of Protective Caps	SKK 100	Page 220
	Ladder Drop-out	KLAB	Page 221
	Cable Ladder Mounting Device	KLTB 6	Page 221
	Wall Support, symmetric	WWU 150/8	Page 221
	Wall Support, asymmetric	WWA 100	Page 221
	Cover for Cable Tray/Ladder, with turnbolt locks	RDV	Page 222
	Cover for Horizontal Tee	KLTDV	Page 222
	Cover for 90° Horizontal Elbow	KLBKDV	Page 222



CABLE LADDER SYSTEM

Cable Ladder

rung spacing: 300 mm (200 mm optional)

model no.	height H mm/Inch	width B mm/Inch	thick- ness t mm/Inch	delivery length m	EAN code	Weight per 100 m kg
S KL 100.203	100/3,9	200/7,8	1,5	6	903658	341
S KL 100.303	100/3,9	300/11,7	1,5	6	903665	355
S KL 100.403	100/3,9	400/15,6	1,5	6	903672	368
S KL 100.503	100/3,9	500/19,5	1,5	6	903689	411
S KL 100.603	100/3,9	600/23,4	1,5	6	903696	431
F KL 100.203 F	100/3,9	200/7,8	1,5	6	904006	366
F KL 100.303 F	100/3,9	300/11,7	1,5	6	904020	381
F KL 100.403 F	100/3,9	400/15,6	1,5	6	904044	396
F KL 100.503 F	100/3,9	500/19,5	1,5	6	904068	443
F KL 100.603 F	100/3,9	600/23,4	1,5	6	904082	463

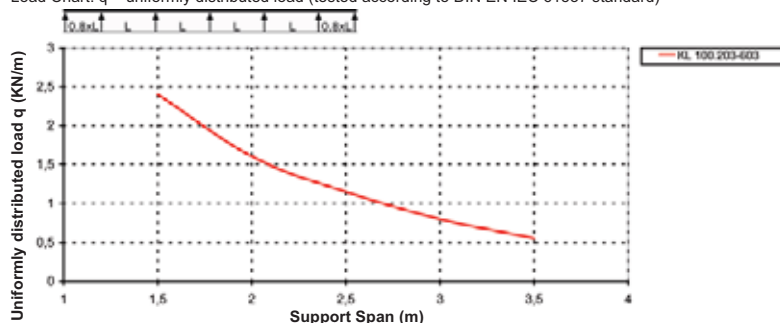
reinforced perforated side rails, riveted rungs with 11 mm slot width

HDG finish, bottom of side rails non perforated

Cable ladder is available in 3 meter length as well.

Corresponding yoke clamps (BA... and BAK...) are listed in a separate section of this catalog.

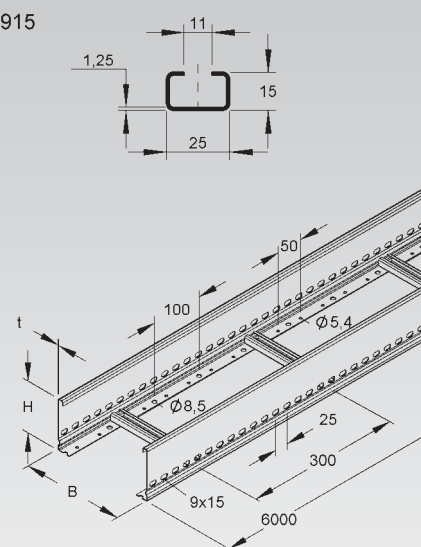
Load Chart: q = uniformly distributed load (tested according to DIN EN IEC 61537 standard)



Specified load ratings are independent of splice plate location.

100

2915



Splice Plate

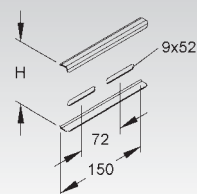
model no.	height H mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S KSV 100 S	100/3,9	2 FLM 8x13 F	906758	25,5
F KSV 100 F	100/3,9	2 FLM 8x13 F	906765	25,5

For positive locking connections of cable ladders with a side rail height of 100 mm and corresponding fittings.

2 pieces required per joint. Please order separately.

Equipotential bonding guaranteed by bolting the splice plate properly.

100



Barrier Strip

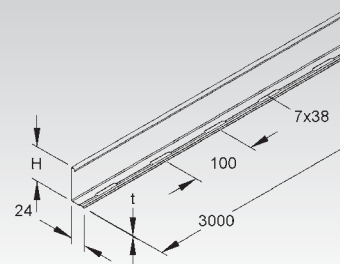
model no.	height H mm/Inch	thick- ness t mm/Inch	acc. incl.	EAN code	Weight per 100 m kg
S RW 85	80/3,1	0,9	4 FLM 6x12	237609	92
F RW 85 F	80/3,1	0,9	4 FLM 6x12 F	237708	92

To separate wires and cables of different voltage levels or with different functions.

Flange with slotted holes 7x38 mm, spacing 100 mm.

85

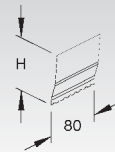
61



Splice Plate for Barrier Strip

model no.	height H	length A	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch		
E2 RTV 85 E2	79,5/3,1	80/3,1	237753	2

For positive locking connections and proper bonding of barrier strips.

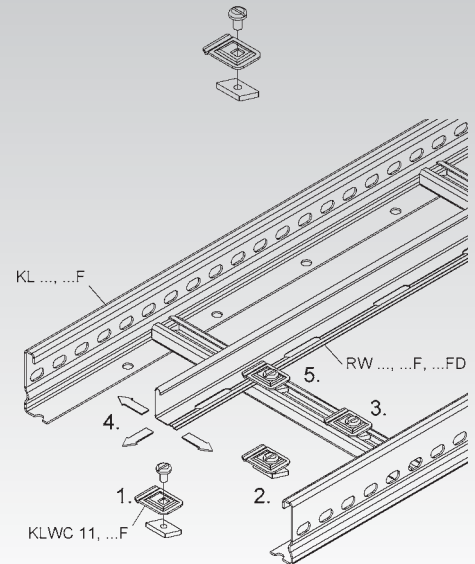


Mounting Clamp for Barrier Strip

model no.	acc. incl.	EAN code	Weight per 100 pc. kg
G KLWC 11	1 FK 6x12, GSM 306	289608	2
F KLWC 11 F	1 FK 6x10 E3, GSM 306 E3	570409	3

For attaching barrier strips to rungs (slot width 11 mm) of cable ladders.

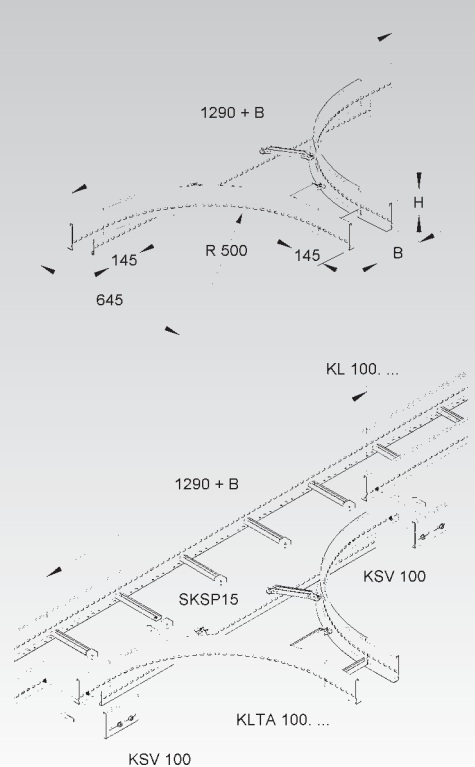
Insertable at any position of the rail.



Extension Horizontal Tee

model no.	height H	width B	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch		
S KLTA 100.203	100/3,9	200/7,8	913701	549
S KLTA 100.303	100/3,9	300/11,7	913725	574
S KLTA 100.403	100/3,9	400/15,6	913749	598
S KLTA 100.503	100/3,9	500/19,5	913763	623
S KLTA 100.603	100/3,9	600/23,4	913787	647
F KLTA 100.203 F	100/3,9	200/7,8	904310	590
F KLTA 100.303 F	100/3,9	300/11,7	904334	617
F KLTA 100.403 F	100/3,9	400/15,6	904358	643
F KLTA 100.503 F	100/3,9	500/19,5	904372	670
F KLTA 100.603 F	100/3,9	600/23,4	904396	696

The splice plates KSV 100 have to be ordered separately.

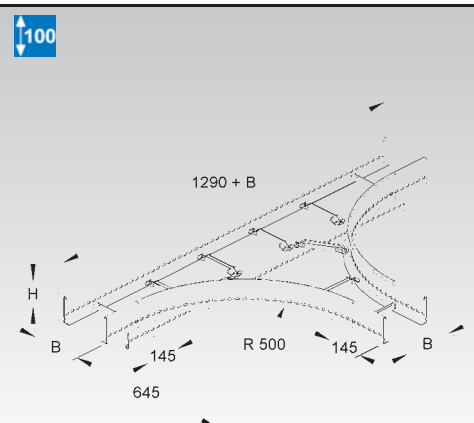


CABLE LADDER SYSTEM

Horizontal Tee

model no.	height H	width B	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch		
S KLT 100.203	100/3,9	200/7,8	903801	765
S KLT 100.303	100/3,9	300/11,7	903818	830
S KLT 100.403	100/3,9	400/15,6	903825	895
S KLT 100.503	100/3,9	500/19,5	903832	1010
S KLT 100.603	100/3,9	600/23,4	903849	1090
F KLT 100.203 F	100/3,9	200/7,8	904303	765
F KLT 100.303 F	100/3,9	300/11,7	904327	830
F KLT 100.403 F	100/3,9	400/15,6	904341	895
F KLT 100.503 F	100/3,9	500/19,5	904365	1010
F KLT 100.603 F	100/3,9	600/23,4	904389	1090

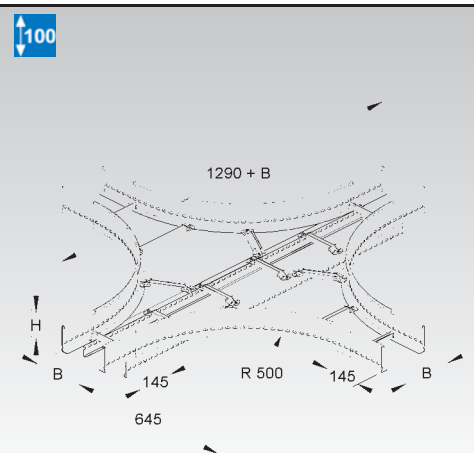
The splice plates KSV 100 have to be ordered seperately.



Horizontal Cross

model no.	height H	width B	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch		
S KLK 100.203	100/3,9	200/7,8	903856	880
S KLK 100.303	100/3,9	300/11,7	903863	960
S KLK 100.403	100/3,9	400/15,6	903870	1045
S KLK 100.503	100/3,9	500/19,5	903887	1200
S KLK 100.603	100/3,9	600/23,4	903894	1325
F KLK 100.203 F	100/3,9	200/7,8	904402	880
F KLK 100.303 F	100/3,9	300/11,7	904426	960
F KLK 100.403 F	100/3,9	400/15,6	904440	1045
F KLK 100.503 F	100/3,9	500/19,5	904464	1200
F KLK 100.603 F	100/3,9	600/23,4	904488	1325

The splice plates KSV 100 have to be ordered seperately.

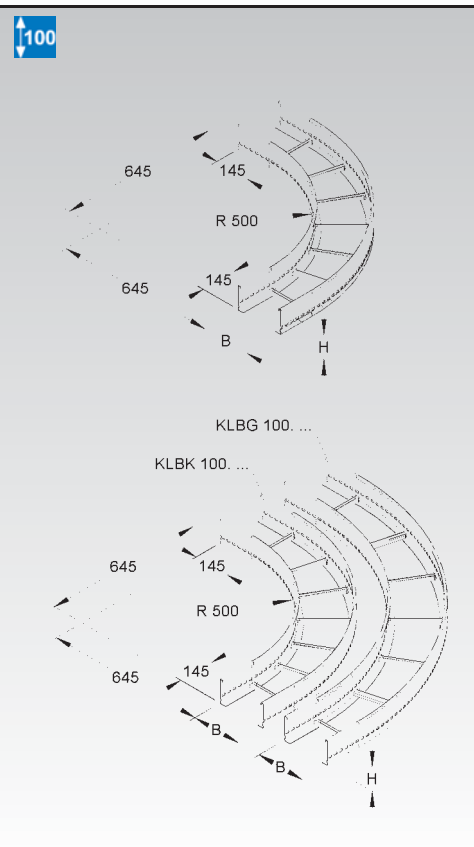


Horizontal Elbow 90°, small radius

model no.	height H	width B	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch		
S KLBK 100.203	100/3,9	200/7,8	903702	430
S KLBK 100.303	100/3,9	300/11,7	903719	475
S KLBK 100.403	100/3,9	400/15,6	903726	520
S KLBK 100.503	100/3,9	500/19,5	903733	615
S KLBK 100.603	100/3,9	600/23,4	903740	660
F KLBK 100.203 F	100/3,9	200/7,8	904105	430
F KLBK 100.303 F	100/3,9	300/11,7	904129	475
F KLBK 100.403 F	100/3,9	400/15,6	904143	520
F KLBK 100.503 F	100/3,9	500/19,5	904167	615
F KLBK 100.603 F	100/3,9	600/23,4	904181	660

Two runs of KL ladders of the same width can be installed next to each other. Distance is 100 mm.

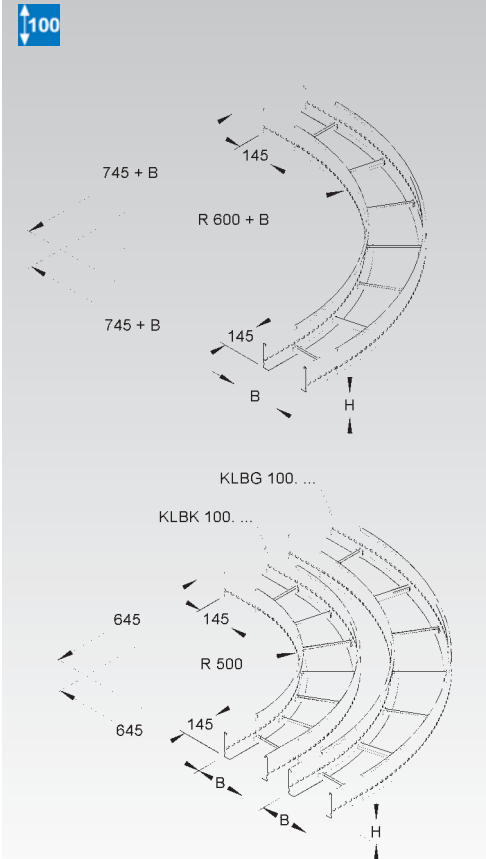
The splice plates KSV 100 have to be ordered seperately.



Horizontal Elbow 90° (large radius)

model no.	height H	width B	EAN code	Weight per 100 pc. kg
S KLBG 100.203	100/3,9	200/7,8	903757	570
S KLBG 100.303	100/3,9	300/11,7	903764	670
S KLBG 100.403	100/3,9	400/15,6	903771	775
S KLBG 100.503	100/3,9	500/19,5	903788	950
S KLBG 100.603	100/3,9	600/23,4	903795	1090
F KLBG 100.203 F	100/3,9	200/7,8	904204	570
F KLBG 100.303 F	100/3,9	300/11,7	904228	670
F KLBG 100.403 F	100/3,9	400/15,6	904242	775
F KLBG 100.503 F	100/3,9	500/19,5	904266	950
F KLBG 100.603 F	100/3,9	600/23,4	904280	1090

Two runs of KL ladders of the same width can be installed next to each other. Distance is 100 mm.
The splice plates KSV 100 have to be ordered separately.



Adjustable Splice Plate

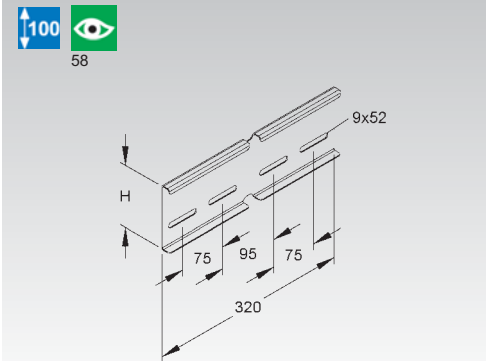
horizontal

model no.	height H	acc. incl.	EAN code	Weight per 100 pc. kg
S KVV 100 S	100/3,9	4 FLM 8x13 F	906796	55
F KVV 100 F	100/3,9	4 FLM 8x13 F	906802	55

For custom-built horizontal elbows.

2 pieces required per joint. Please order separately.

Equipotential bonding guaranteed by bolting the splice plate properly.

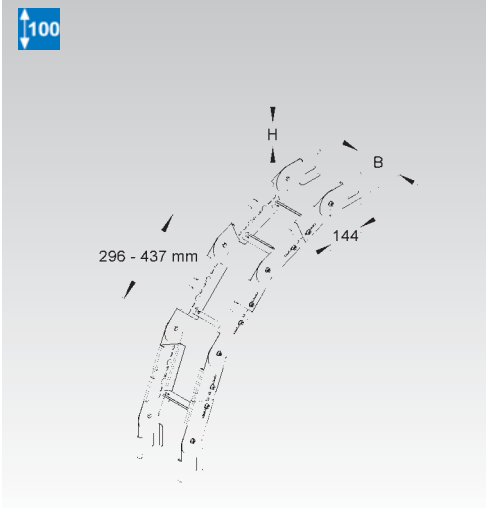


Adjustable Vertical Elbow

vertical

model no.	height H	width B	acc. incl.	EAN code	Weight per 100 pc. kg
S KGS 100.203	100/3,9	200/7,8	8 SKM 8x16 F, 16 FLM 8x13 F	903900	370
S KGS 100.303	100/3,9	300/11,7	8 SKM 8x16 F, 16 FLM 8x13 F	903917	430
S KGS 100.403	100/3,9	400/15,6	8 SKM 8x16 F, 16 FLM 8x13 F	903924	490
S KGS 100.503	100/3,9	500/19,5	8 SKM 8x16 F, 16 FLM 8x13 F	903931	575
S KGS 100.603	100/3,9	600/23,4	8 SKM 8x16 F, 16 FLM 8x13 F	903948	620
F KGS 100.203 F	100/3,9	200/7,8	8 SKM 8x16 F, 16 FLM 8x13 F	904501	370
F KGS 100.303 F	100/3,9	300/11,7	8 SKM 8x16 F, 16 FLM 8x13 F	904525	430
F KGS 100.403 F	100/3,9	400/15,6	8 SKM 8x16 F, 16 FLM 8x13 F	904549	490
F KGS 100.503 F	100/3,9	500/19,5	8 SKM 8x16 F, 16 FLM 8x13 F	904563	575
F KGS 100.603 F	100/3,9	600/23,4	8 SKM 8x16 F, 16 FLM 8x13 F	904587	620

Delivered as a kit (not assembled).



CABLE LADDER SYSTEM

Adjustable Splice Plate

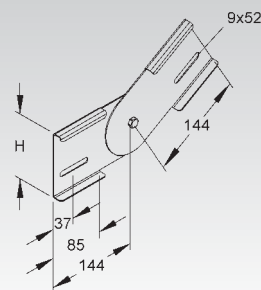
vertical

model no.	height H mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S KGV 100 S	100/3,9	2 FLM 8x13 F	906772	54
F KGV 100 F	100/3,9	2 FLM 8x13 F	906789	54

For custom built horizontal elbows.

2 pieces required per joint. Please order separately.

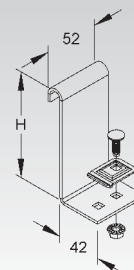
Equipotential bonding guaranteed by bolting the splice plate to the side plate properly.



Cable Ladder Connection Bracket

model no.	height H mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
F KLAS 100	100/3,9	1 FLM 6x16 F	295005	20,5

Connector bracket for field made horizontal joints of cable ladders with identical height.

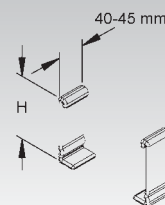


Pair of Protective End Caps

model no.	height H mm/Inch	color	EAN code	Weight per 100 pairs kg
K10 SKK 100	100/3,9	yellow	918423	5

to be installed as end cap

To prevent accidents and injuries you must install a pair of protective end cap.
One pair consists of a left-hand and a right-hand version.

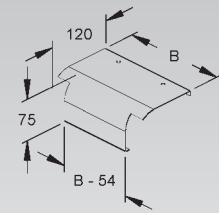


Ladder Drop Out

model no.	width B mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S KLAB 200	190/7,4	2 FK 6x12, 2 GSM 306	287406	60
S KLAB 300	290/11,3	2 FK 6x12, 2 GSM 306	287505	90
S KLAB 400	390/15,2	2 FK 6x12, 2 GSM 306	287604	120
S KLAB 500	490/19,1	2 FK 6x12, 2 GSM 306	287703	150
S KLAB 600	590/23	2 FK 6x12, 2 GSM 306	287802	180
F KLAB 200 F	190/7,4	2 FK 6x10 E3, 2 GSM 306 E3	900176	60
F KLAB 300 F	290/11,3	2 FK 6x10 E3, 2 GSM 306 E3	900183	90
F KLAB 400 F	390/15,2	2 FK 6x10 E3, 2 GSM 306 E3	900190	120
F KLAB 500 F	490/19,1	2 FK 6x10 E3, 2 GSM 306 E3	900206	150
F KLAB 600 F	590/23	2 FK 6x10 E3, 2 GSM 306 E3	900213	180
E3 KLAB 200 E3	190/7,4	2 FK 6x10 E3, 2 GSM 306 E3	900121	60
E3 KLAB 300 E3	290/11,3	2 FK 6x10 E3, 2 GSM 306 E3	900138	90
E3 KLAB 400 E3	390/15,2	2 FK 6x10 E3, 2 GSM 306 E3	900145	120
E3 KLAB 500 E3	490/19,1	2 FK 6x10 E3, 2 GSM 306 E3	900152	150
E3 KLAB 600 E3	590/23	2 FK 6x10 E3, 2 GSM 306 E3	900169	180

For rung mounting, with rounded edges to protect cables.

For: KL 60... and KL 100... cable ladders



Cable Ladder Mounting Bracket

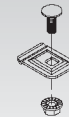
model no.	acc. incl.	EAN code	Weight per 100 pc. kg
S KLTB 6	1 FLM 6x16 F	282708	2
F KLTB 6 F	1 FLM 6x16 F	282722	2
E3 KLTB 6 E3	1 FLM 6x12 E3	342006	2
E5 KLTB 6 E5	1 FLM 6x12 E5, 1 US M6, 1 SM 6	730407	2

Hold down clamp to fix cable ladders on brackets.

2 pieces required per bracket



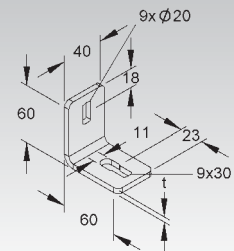
58



Two Hole Corner Angle

model no.	thick- ness t mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
F WWU 150/8	5	1 FLM 8x16 F	194506	21
E3 WWU 150/8 E3	4	1 FLM 8x16 E3	344307	21
E5 WWU 150/8 E5	4	1 SKM 8x16 E5	728909	21

for floor-, ceiling- or wall-mount



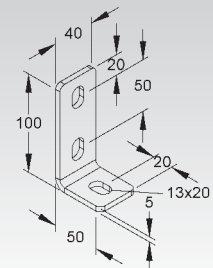
Three Hole Corner Angle

model no.	thick- ness t mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
F WWA 100	5	1 FLM 10x25 F	194759	30

for floor-, ceiling- or wall-mount



59



CABLE LADDER SYSTEM ACCESSORIES

Cover for Cable Tray/Ladder

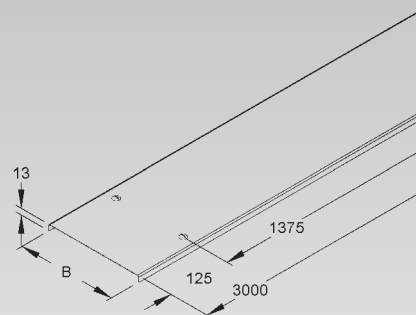
with turnbolt locks

model no.	inside dimension (B)	EAN code	Weight per 100 m kg
mm/Inch			
S RDV 100	102/4	261406	97
S RDV 150	152/5,9	261505	129
S RDV 200	202/7,9	261604	177
S RDV 300	302/11,8	261802	260
S RDV 400	402/15,7	261901	340
S RDV 500	502/19,6	262007	420
S RDV 600	602/23,5	262205	500
F RDV 100 F	102/4	263608	97
F RDV 150 F	152/5,9	263707	129
F RDV 200 F	202/7,9	263806	177
F RDV 300 F	302/11,8	264001	260
F RDV 400 F	402/15,7	264100	340
F RDV 500 F	502/19,6	264209	420
F RDV 600 F	602/23,5	264407	500
E3 RDV 100 E3	102/4	336906	97
E3 RDV 200 E3	202/7,9	337002	177
E3 RDV 300 E3	302/11,8	337101	257
E3 RDV 400 E3	402/15,7	337200	340
E3 RDV 500 E3	502/19,6	337309	420
E3 RDV 600 E3	602/23,5	337507	500

Turn-bolt locks for finish E3 and E5 are always made of stainless steel type E5.

For: all straight sections of cable tray (other than RSV 50...) as well as for KL 60 and KL 100 cable ladders

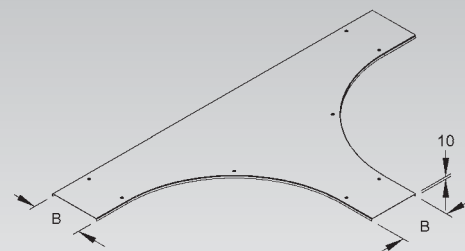
For outdoor service covers need to be secured against windloads using heavy duty cover clamps or steel cable ties.



Cover for Horizontal Tee

with turnbolt locks

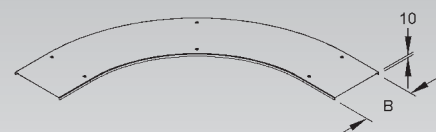
model no.	width B	EAN code	Weight per 100 kg
mm/Inch			
S KLTDV 200	200/7,8	938759	454,8
S KLTDV 300	300/11,7	938766	646,8
S KLTDV 400	400/15,6	938773	854,5
S KLTDV 500	500/19,5	938780	1077,9
S KLTDV 600	600/23,4	938797	1317
F KLTDV 200 F	200/7,8	938803	489
F KLTDV 300 F	300/11,7	938810	695,4
F KLTDV 400 F	400/15,6	938827	918,7
F KLTDV 500 F	500/19,5	938834	1158,8
F KLTDV 600 F	600/23,4	938841	1415,9
E3 KLTDV 200 E3	200/7,8	938858	459,9
E3 KLTDV 300 E3	300/11,7	938865	653,2
E3 KLTDV 400 E3	400/15,6	938872	862,2
E3 KLTDV 500 E3	500/19,5	938889	1087
E3 KLTDV 600 E3	600/23,4	938896	1327,6



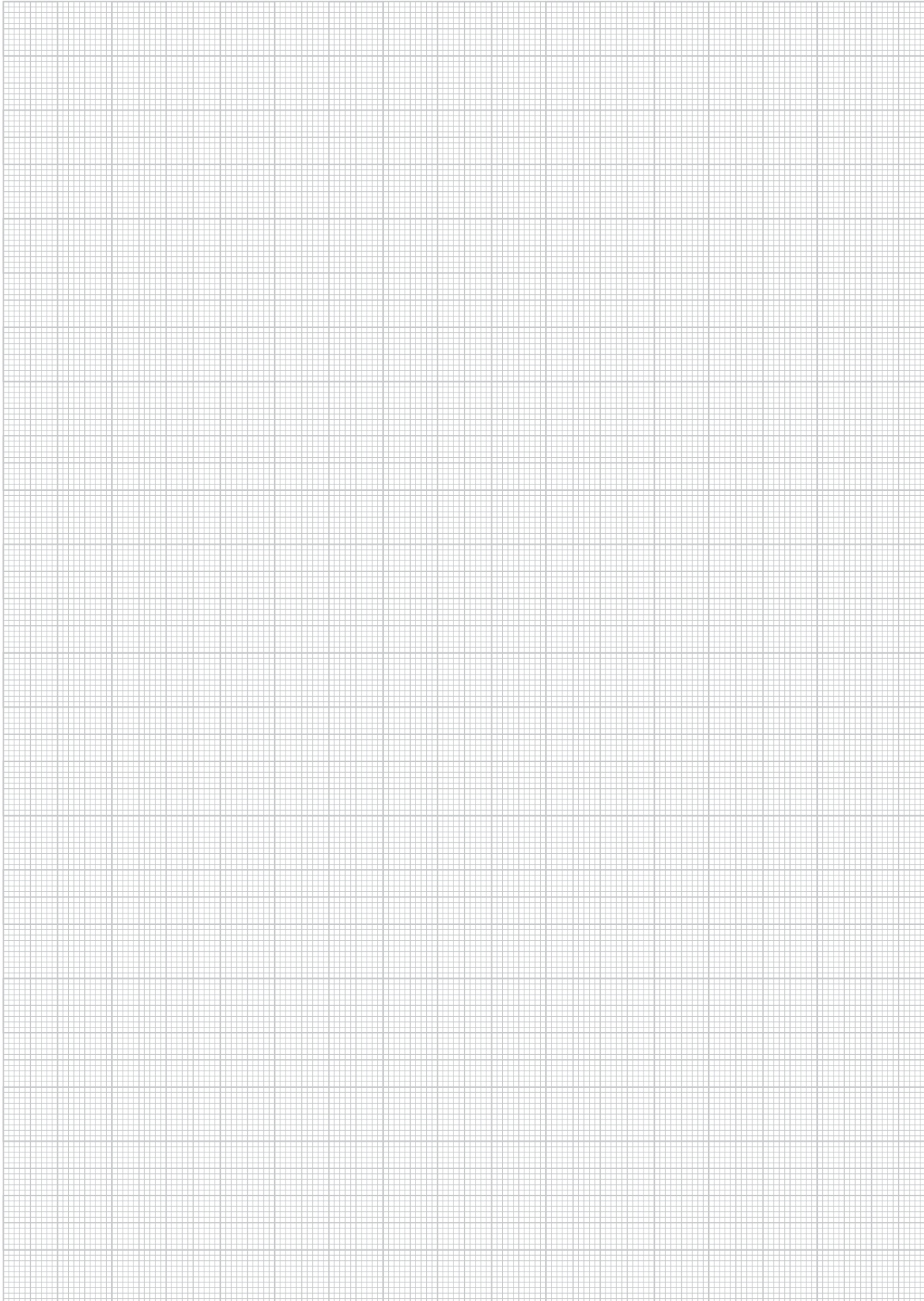
Cover for 90° Horizontal Elbow

with turnbolt locks

model no.	width B	EAN code	Weight per 100 kg
mm/Inch			
S KLBKDV 200	200/7,8	938605	217,8
S KLBKDV 300	300/11,7	938612	334,4
S KLBKDV 400	400/15,6	938629	463,3
S KLBKDV 500	500/19,5	938636	604,6
S KLBKDV 600	600/23,4	938643	758,1
F KLBKDV 200 F	200/7,8	938650	234,2
F KLBKDV 300 F	300/11,7	938667	360,1
F KLBKDV 400 F	400/15,6	938674	498,1
F KLBKDV 500 F	500/19,5	938681	649,9
F KLBKDV 600 F	600/23,4	938698	815
E3 KLBKDV 200 E3	200/7,8	938704	220,9
E3 KLBKDV 300 E3	300/11,7	938711	338,2
E3 KLBKDV 400 E3	400/15,6	938728	467,9
E3 KLBKDV 500 E3	500/19,5	938735	610,1
E3 KLBKDV 600 E3	600/23,4	938742	764,6



NOTES



Marine Cable Ladder System

 Cable Ladder

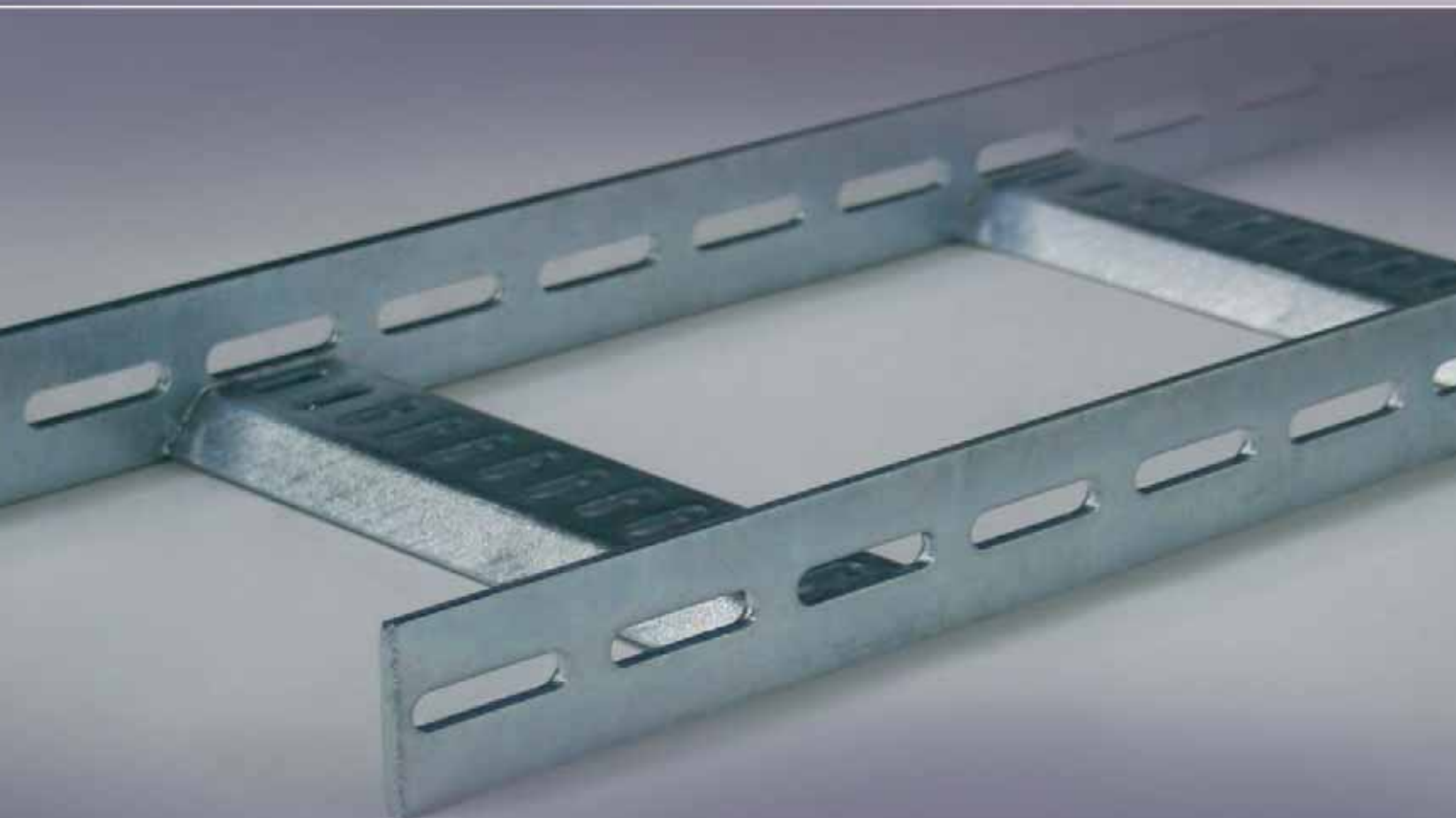
 Rungs

 Splice Plates



All straight sections of cable tray as well as their corresponding system components (fittings, splice plates, covers, ...) are classified by UL in accordance with NEMA VE 1 for the USA and CSA E22.2 No. 126.1 for Canada.

Please add an 'X' after the first sequence of characters in the part number to get your products labeled for UL conformity (f.e. RLV 60.200 becomes RLVX 60.200 or GRS 110.300 becomes GR SX 110.300).



The Niedax Marine Cable Ladder was originally designed for shipbuilding only. Today the marine ladder is used in many different areas, for example in power plants, refineries, heavy industry and in tunnels.

Heavy duty perforated siderails allow welding and/or bolting to support structures. Cables can be banded very easy to the slotted rungs using plastic or stainless steel cable ties.



Load / Span Class Designation in accordance with NEMA VE 1 and CSA E22.2 No. 126.1

NIEDAX Series	Minimum Area		Load class in accordance to NEMA VE 1		
	(calculational) mm ² / in. ²	in accordance to NEMA VE 2 mm ² / in. ²	Rated Load Kg/m / lb./ft.	Support spacing m / ft.	Load/Span Class
KLMULX 40.100 ...F	400 / 0.62	258 / 0.40	175 / 117.6	2 / 6.6	C
KLMULX 40.150 ...F	400 / 0.62	258 / 0.40	175 / 117.6	2 / 6.6	C
KLMULX 40.200 ...F	400 / 0.62	258 / 0.40	175 / 117.6	2 / 6.6	C
KLMULX 40.250 ...F	400 / 0.62	258 / 0.40	175 / 117.6	2 / 6.6	C
KLMULX 40.300 ...F	400 / 0.62	258 / 0.40	175 / 117.6	2 / 6.6	C
KLMULX 40.400 ...F	400 / 0.62	258 / 0.40	175 / 117.6	2 / 6.6	C
KLMULX 40.500 ...F	400 / 0.62	258 / 0.40	175 / 117.6	2 / 6.6	C
KLMULX 40.600 ...F	400 / 0.62	258 / 0.40	175 / 117.6	2 / 6.6	C
KLMULX 40.700 ...F	400 / 0.62	258 / 0.40	175 / 117.6	2 / 6.6	C
KLMULX 40.800 ...F	400 / 0.62	258 / 0.40	175 / 117.6	2 / 6.6	C
KLMULX 40.900 ...F	400 / 0.62	258 / 0.40	175 / 117.6	2 / 6.6	C
KLMULX 40.1000 ...F	400 / 0.62	258 / 0.40	190 / 127.7	2 / 6.6	C

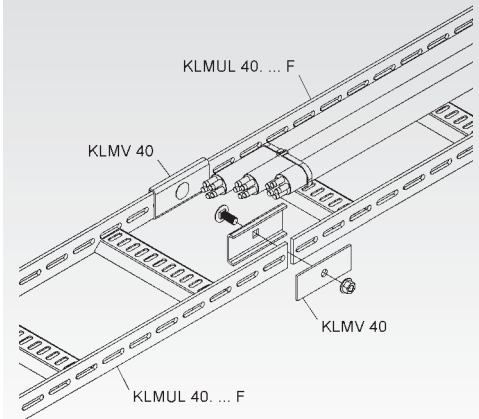
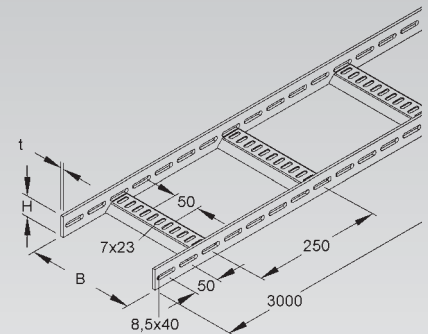
Marine Cable Ladder

with perforated siderail

model no.	height H	width B	thick- ness t	EAN code	Weight per 100 m kg
★ F KLMUL 40.100 F	40/1,6	110/4,3	5	932825	324,2
★ F KLMUL 40.150 F	40/1,6	160/6,2	5	932849	345
★ F KLMUL 40.200 F	40/1,6	210/8,2	5	932863	356,5
★ F KLMUL 40.250 F	40/1,6	260/10,1	5	932887	386,4
★ F KLMUL 40.300 F	40/1,6	310/12,1	5	932900	407,1
★ F KLMUL 40.400 F	40/1,6	410/16	5	932924	448,5
★ F KLMUL 40.500 F	40/1,6	510/19,9	5	932948	490
★ F KLMUL 40.600 F	40/1,6	610/23,8	5	932962	531,4
★ F KLMUL 40.700 F	40/1,6	710/27,7	5	932986	572,8
★ F KLMUL 40.800 F	40/1,6	810/31,6	5	933006	614,3
★ F KLMUL 40.900 F	40/1,6	910/35,5	5	933020	655,7
★ F KLMUL 40.1000 F	40/1,6	1010/39,4	5	933044	697,1

The KLMUL ladder is available in E5 on request.

40

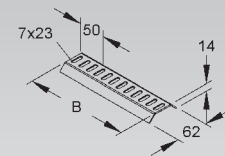


Trapeze Rungs

model no.	width B	EAN code	Weight per 100 pc. kg
B SPM 100 B	100/3,9	298907	10,9
B SPM 150 B	150/5,8	299003	16,5
B SPM 200 B	200/7,8	299102	22
B SPM 250 B	250/9,8	299201	27,5
B SPM 300 B	300/11,7	299300	33
B SPM 400 B	400/15,6	299409	44
B SPM 500 B	500/19,5	299508	55
B SPM 600 B	600/23,4	299607	66
B SPM 700 B	700/27,3	299706	77
B SPM 800 B	800/31,2	299805	88,9
B SPM 900 B	900/35,1	299904	99
B SPM 1000 B	1000/39	300006	109
B SPM 3000 B	3000/117	962068	

supplementary rung, for welding into the marine cable ladder

The SPM rung in 3000 mm length is available in F, E3, E5 and AL (material thickness 3mm) as well.



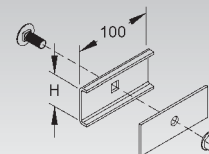
Splice Plate

model no.	height H	acc. incl.	EAN code	Weight per 100 pc. kg
F KLMV 40	41/1,6	1 FLM 10x25 F	298808	27

for positive locking connections of the marine cable ladder.

2 pieces required per joint

Equipotential bonding guaranteed by bolting the side rails together.



MARINE CABLE LADDER SYSTEM

Mushroom Head Bolt, similar to DIN 603 Standard

flange nut included

model no.	thread	length A	strength category	EAN code	Weight per 100 pc. kg
F FLM 8 X 25 F	M8	25/1	8.8	206803	2,8

Box quantity for FLM 8 x 25 F, 50 pieces.

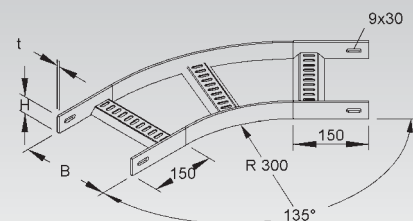


Horizontal Elbow 45°

model no.	height H	width B	thick- ness t	EAN code	Weight per 100 pc. kg
F KLMUBB 40.100F	40/1,6	100/3,9	5	935109	222,1
F KLMUBB 40.150F	40/1,6	150/5,8	5	935116	244,3
F KLMUBB 40.200F	40/1,6	200/7,8	5	935123	266,5
F KLMUBB 40.250F	40/1,6	250/9,8	5	935130	288,6
F KLMUBB 40.300F	40/1,6	300/11,7	5	935147	310,8
F KLMUBB 40.400F	40/1,6	400/15,6	5	935154	355,1
F KLMUBB 40.500F	40/1,6	500/19,5	5	935161	399,5
F KLMUBB 40.600F	40/1,6	600/23,4	5	935178	443,8
F KLMUBB 40.700F	40/1,6	700/27,3	5	935185	488,1
F KLMUBB 40.800F	40/1,6	800/31,2	5	935192	532,5
F KLMUBB 40.900F	40/1,6	900/35,1	5	935208	576,8
F KLMUBB40.1000F	40/1,6	1000/39	5	935215	621,1

Hardware is not included.

40



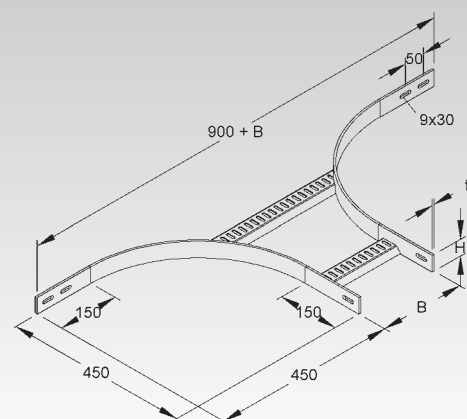
Extension Horizontal Tee

model no.	height H	width B	thick- ness t	acc. incl.	EAN code	Weight per 100 pc. kg
F KLMUAT 40.100F	40/1,6	100/3,9	5	4 FLM 8x25 F	935222	292,7
F KLMUAT 40.150F	40/1,6	150/5,8	5	4 FLM 8x25 F	935239	303
F KLMUAT 40.200F	40/1,6	200/7,8	5	4 FLM 8x25 F	935246	313,4
F KLMUAT 40.250F	40/1,6	250/9,8	5	4 FLM 8x25 F	935253	323,7
F KLMUAT 40.300F	40/1,6	300/11,7	5	4 FLM 8x25 F	935260	334,1
F KLMUAT 40.400F	40/1,6	400/15,6	5	4 FLM 8x25 F	935277	354,8
F KLMUAT 40.500F	40/1,6	500/19,5	5	4 FLM 8x25 F	935284	375,6
F KLMUAT 40.600F	40/1,6	600/23,4	5	4 FLM 8x25 F	935291	396,3
F KLMUAT 40.700F	40/1,6	700/27,3	5	4 FLM 8x25 F	935307	417
F KLMUAT 40.800F	40/1,6	800/31,2	5	4 FLM 8x25 F	935314	437,7
F KLMUAT 40.900F	40/1,6	900/35,1	5	4 FLM 8x25 F	935321	458,4
F KLMUAT40.1000F	40/1,6	1000/39	5	4 FLM 8x25 F	935338	479,1

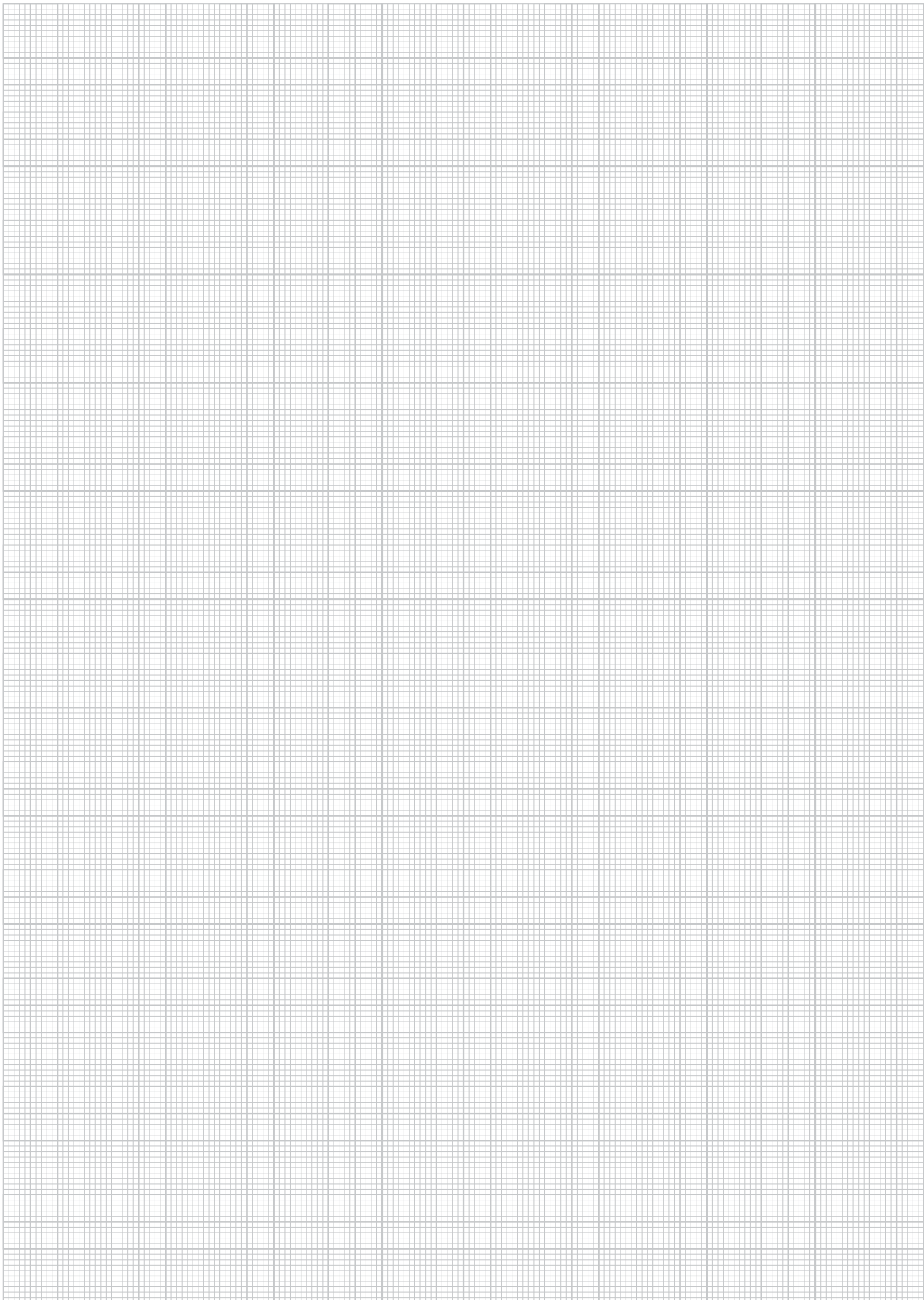
Extension tees can be bolted directly to straight sections of KLMUL ladders using two FLM 8x25 F.

Hardware is not included.

40



NOTES



Long Span System

Long Span Cable Tray

Long Span Cable Ladder

Fittings

Accessories



All straight sections of cable tray as well as their corresponding system components (fittings, splice plates, covers, ...) are classified by UL in accordance with NEMA VE 1 for the USA and CSA E22.2 No. 126.1 for Canada.

Please add an 'X' after the first sequence of characters in the part number to get your products labeled for UL conformity (f.e. RLV 60.200 becomes RLVX 60.200 or GRS 110.300 becomes GR SX 110.300).



The Long Span System is used where long support spans and high cable load capacities are required. Our heavy duty versions show a load rating of 20C according to NEMA. The main application for Long Span Cable Ladders are heavy duty power cables, while Long Span Trays allow a combination of control- and power cables. Like with all Niedax cable management systems you can select from a wide range of sizes, fittings and accessories in various material thicknesses and finishes.



Long support spans are causing high load ratings to each individual support. Load capacities shown are valid only for proper anchorage to the building structure. Please consult structural engineering for maximum allowable ratings and special local regulations.

Available Side Rail Heights

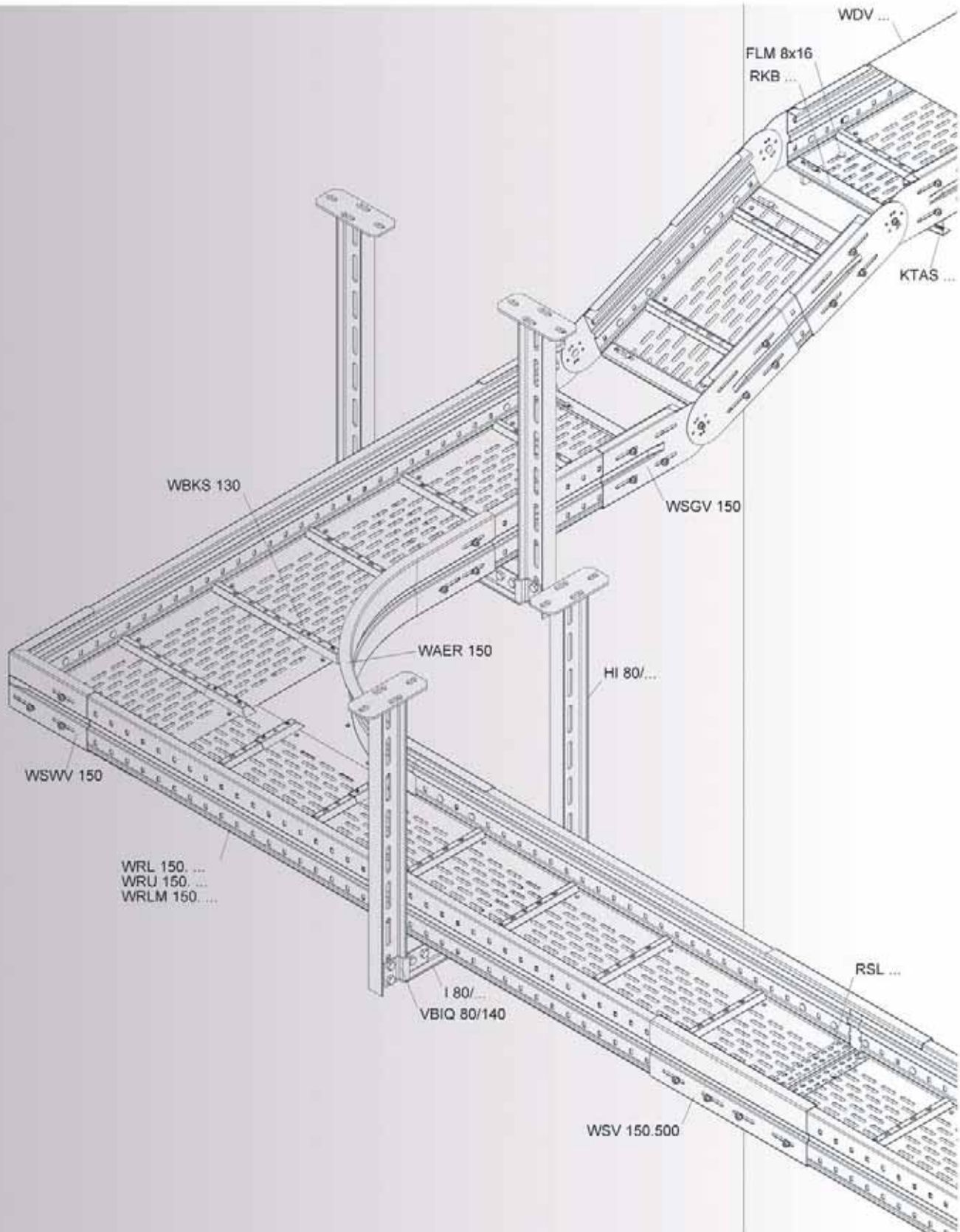
SYSTEM	Long-Span Cable Tray, ventilated	WRL	 Page 236	 Page 240
	Long Span Cable Tray	WRU	 Page 236	 Page 240
	Long-Span Cable Tray, ventilated	WRLM	 —	 Page 241
ACCESSORIES	Splice Plate	WSV	 Page 237	 Page 241
	Adjustable Splice Plate, vertical	WSGV	 Page 237	 Page 241
	Adjustable Splice Plate, horizontal	WSWV	 Page 237	 Page 242
	Barrier Strip	RW	 Page 237	 Page 242
	Splice Plate for Barrier Strip	RTV	 Page 237	 Page 242
	Mounting Clamp for Barrier Strip	KLWC 16	 Page 238	 —
	Extension Horizontal Tee	WRTAR	 Page 238	 Page 242
	Horizontal Tee	WRTR	 Page 238	 Page 243
	Elbow 90°	WRBR	 Page 239	 Page 243
	Bottom Connection Plate	RSL	 —	 Page 243

Support Span L m	WRL 105...		WRL 150...		WRLM 150...	
	q KN/m	F KN	q KN/m	F KN	q KN/m	F KN
3	2,95	9,15	3,15	9,80	3,45	10,70
4	1,70	7,20	2,40	10,00	2,90	12,10
5	1,00	5,50	1,75	9,30	2,35	12,40
6	0,60	4,20	1,20	7,85	1,85	11,85
7	0,40	3,50	0,85	6,70	1,35	10,30
8	-	-	0,60	5,70	1,00	9,00
9	-	-	-	-	-	-
10	-	-	-	-	-	-
11	-	-	-	-	-	-
12	-	-	-	-	-	-

* Usable for all siderail heights

q = Uniformly distributed load

F = Force



Long Span Cable Tray and Cable Ladder Specifications:

A. CABLE TRAY DESIGN

1. Cable Tray shall be made of straight sections, fittings and accessories as defined in the latest NEMA standards per NEMA VE-1. Standard cable trays shall be UL classified as equipment grounding conductors.

B. MATERIAL

1. **Pre-galvanized steel.** The structural quality of the steel shall meet the minimum yield and tensile strength of the ASTM standards (ASTM A 653) with G 90 coating thickness. All cable trays to be labeled for material identification purposes.
2. **Hot dipped galvanized steel.** All trays to be hot-dipped galvanized in accordance with ASTM A123. All trays to be labeled for material identification.
3. **Stainless steel.** All trays are to be constructed of AISI type 304 or 316 stainless steel. All trays to be labeled for material identification.

C. TRAY TYPES

1. **Ventilated cable tray.** Ventilated trough shall incorporate two side-rails connected by corrugated ventilated metal.
2. **Solid cable tray.** Solid bottom tray shall incorporate two side rails connected by solid steel metal.
3. **Ladder cable tray.** Ladder shall consist of two side-rails with rungs riveted to the bottom flange of the side-rails. Rungs shall be spaced 8" or 12" (200 or 300 mm) on center. Rungs shall not protrude below the bottom of the side-rail.

D. TRAY SIZE

1. **Height:** Trays shall have an overall height of 4", 6", and 8" (105, 150 and 200 mm). Minimum load depth shall be 3.5", 5.5" and 7.5" (90, 135 and 185 mm).
2. **Width:** Widths shall be 8", 12", 16", 20" and 24" (200, 300, 400, 500 and 600 mm).
3. **Length:** Length shall be a nominal 10' or 3 meters, and 20' or 6 meters

E. ACCESSORIES

1. **Covers.** Covers shall be supplied to protect tray cable where needed. Covers will be solid and contain three pair of turn-bolt locks to secure the covers to the lips of the cable tray, requiring only the use of a slotted screwdriver.
2. **Splice plates.** Splice plates shall fasten to the outside of the cable tray side-rails and wrap around and snap onto each section of tray. Bolts and nuts are used to fasten to the tray and are included with splice plates. Plates shall not exceed the NEMA VE-1 resistance of 330 micro ohms.
3. **Other accessories** shall be furnished as required to protect, support, and install a cable tray system. Fittings shall made of the same material as the cable tray whenever possible. Fittings can be of factory construction or also be of a type that allows field constructed fittings.

F. LOADING CAPABILITIES

1. Cable tray shall meet the load/span class designation in accordance with NEMA VE 1 and CSA E22.2 No 126.1. Cable tray shall also meet load/span designation in accordance with IEC 61537

G. DESIGN AND MANUFACTURE

1. Cable tray design shall be manufactured by The NIEDAX Group.

Load / Span Class Designation in accordance with NEMA VE 1 and CSA E22.2 No. 126.1

NIEDAX Series	Minimum Area		Load class in accordance to NEMA VE 1		
	(calculational) mm ² / in. ²	in accordance to NEMA VE 2 mm ² / in. ²	Rated Load Kg/m / lb./ft.	Support spacing m / ft.	Load/Span Class
WRLX / WRUX 105.200, ... F, ... E3	627.0 / 0.97	452 / 0.7	80 / 53.8	6 / 19.7	8C, 12C, 16B, D, 20A
WRLX / WRUX 105.300, ... F, ... E3	627.0 / 0.97	452 / 0.7	80 / 53.8	6 / 19.7	8C, 12C, 16B, D, 20A
WRLX / WRUX 105.400, ... F, ... E3	627.0 / 0.97	452 / 0.7	80 / 53.8	6 / 19.7	8C, 12C, 16B, D, 20A
WRLX / WRUX 105.500, ... F, ... E3	627.0 / 0.97	452 / 0.7	80 / 53.8	6 / 19.7	8C, 12C, 16B, D, 20A
WRLX / WRUX 105.600, ... F, ... E3	627.0 / 0.97	452 / 0.7	80 / 53.8	6 / 19.7	8C, 12C, 16B, D, 20A
WRLX / WRUX 150.200, ... F, ... E3	762.0 / 1.18	645 / 1.0	80 / 53.8	6 / 19.7	8C, 12C, 16B, D, 20A
WRLX / WRUX 150.300, ... F, ... E3	762.0 / 1.18	645 / 1.0	80 / 53.8	6 / 19.7	8C, 12C, 16B, D, 20A
WRLX / WRUX 150.400, ... F, ... E3	762.0 / 1.18	645 / 1.0	80 / 53.8	6 / 19.7	8C, 12C, 16B, D, 20A
WRLX / WRUX 150.500, ... F, ... E3	762.0 / 1.18	645 / 1.0	80 / 53.8	6 / 19.7	8C, 12C, 16B, D, 20A
WRLX / WRUX 150.600, ... F, ... E3	762.0 / 1.18	645 / 1.0	80 / 53.8	6 / 19.7	8C, 12C, 16B, D, 20A
WRLMX / WRUMX 150.200, ... F	896 / 1.39	645 / 1.0	122 / 82	6 / 19.7	8C, 12C, 16B, 20A, E, 20B
WRLMX / WRUMX 150.300, ... F	896 / 1.39	645 / 1.0	122 / 82	6 / 19.7	8C, 12C, 16B, 20A, E, 20B
WRLMX / WRUMX 150.400, ... F	896 / 1.39	645 / 1.0	122 / 82	6 / 19.7	8C, 12C, 16B, 20A, E, 20B
WRLMX / WRUMX 150.500, ... F	896 / 1.39	645 / 1.0	122 / 82	6 / 19.7	8C, 12C, 16B, 20A, E, 20B
WRLMX / WRUMX 150.600, ... F	896 / 1.39	645 / 1.0	122 / 82	6 / 19.7	8C, 12C, 16B, 20A, E, 20B
WRLX / WRUX 200.200, ... F	924.0 / 1.43	645 / 1.0	76.5 / 51.4	6 / 19.7	8C, 12C, 16B, D, 20A
WRLX / WRUX 200.300, ... F	924.0 / 1.43	645 / 1.0	76.5 / 51.4	6 / 19.7	8C, 12C, 16B, D, 20A
WRLX / WRUX 200.400, ... F	924.0 / 1.43	645 / 1.0	76.5 / 51.4	6 / 19.7	8C, 12C, 16B, D, 20A
WRLX / WRUX 200.500, ... F	924.0 / 1.43	645 / 1.0	76.5 / 51.4	6 / 19.7	8C, 12C, 16B, D, 20A
WRLX / WRUX 200.600, ... F	924.0 / 1.43	645 / 1.0	76.5 / 51.4	6 / 19.7	8C, 12C, 16B, D, 20A

LONG SPAN CABLE TRAY

Long Span Cable Tray

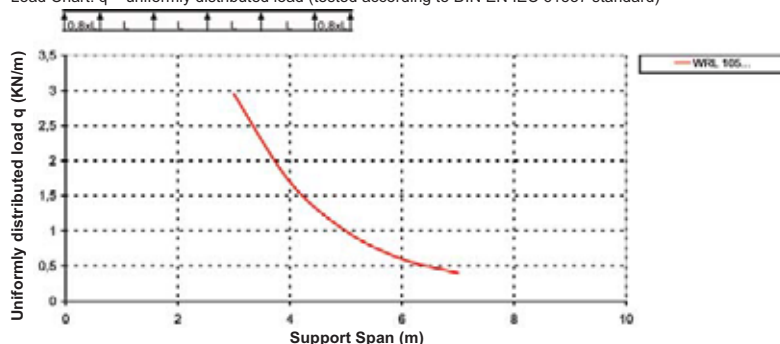
ventilated bottom

model no.	height H	width B	thickness t	delivery length	EAN code	Weight per 100 m kg
	mm/Inch	mm/Inch	mm/Inch	m		
S WRL 105.200	105/4,1	200/7,8	1,5	6	310708	644
S WRL 105.300	105/4,1	300/11,7	1,5	6	310807	709
S WRL 105.400	105/4,1	400/15,6	1,5	6	310906	774
S WRL 105.500	105/4,1	500/19,5	1,5	6	311002	839
S WRL 105.600	105/4,1	600/23,4	1,5	6	311101	904
F WRL 105.200 F	105/4,1	200/7,8	1,5	6	587803	644
F WRL 105.300 F	105/4,1	300/11,7	1,5	6	587902	709
F WRL 105.400 F	105/4,1	400/15,6	1,5	6	588008	774
F WRL 105.500 F	105/4,1	500/19,5	1,5	6	588107	839
F WRL 105.600 F	105/4,1	600/23,4	1,5	6	588206	904
E3 WRL 105.200 E3	105/4,1	200/7,8	1,5	6	724802	644
E3 WRL 105.300 E3	105/4,1	300/11,7	1,5	6	724826	709
E3 WRL 105.400 E3	105/4,1	400/15,6	1,5	6	724840	774
E3 WRL 105.500 E3	105/4,1	500/19,5	1,5	6	724864	839
E3 WRL 105.600 E3	105/4,1	600/23,4	1,5	6	724888	910

Perforated side rails with reinforcing fins, ventilated bottom plate with reinforcing fins in transverse direction

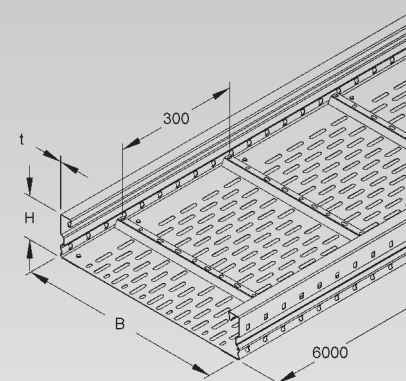
A bottom connection plate RSL... is included with every straight section of tray (width ≥ 400 mm)

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



Specified load ratings are independent of splice plate location.

105



Long Span Cable Tray

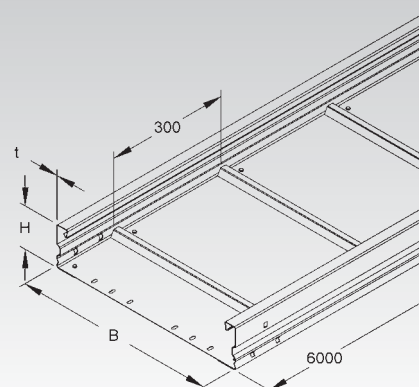
solid

model no.	height H	width B	thickness t	delivery length	EAN code	Weight per 100 m kg
	mm/Inch	mm/Inch	mm/Inch	m		
S WRU 105.200	105/4,1	200/7,8	1,5	6	311200	672
S WRU 105.300	105/4,1	300/11,7	1,5	6	311309	750
S WRU 105.400	105/4,1	400/15,6	1,5	6	311408	829
S WRU 105.500	105/4,1	500/19,5	1,5	6	311507	907
S WRU 105.600	105/4,1	600/23,4	1,5	6	311606	985
F WRU 105.200 F	105/4,1	200/7,8	1,5	6	588305	672
F WRU 105.300 F	105/4,1	300/11,7	1,5	6	588404	750
F WRU 105.400 F	105/4,1	400/15,6	1,5	6	588503	829
F WRU 105.500 F	105/4,1	500/19,5	1,5	6	588602	907
F WRU 105.600 F	105/4,1	600/23,4	1,5	6	588701	985

Solid side rails with reinforcing fins, solid bottom plate with reinforcing fins in transverse direction

A bottom connection plate RSL... is included with every straight section of tray (width ≥ 400 mm)

105

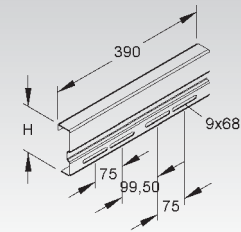


Splice Plate

model no.	height H mm/Inch	width B mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S WSV 105.390	106,5/4,2	390/15,2	4 FLM 8x13 F	301959	118,5
F WSV 105.390 F	106,5/4,2	390/15,2	4 FLM 8x13 F	302055	121,5
E3 WSV 105.390 E3	106,5/4,2	390/15,2	4 FLM 8x16 E3	340132	80

For positive locking connections of long span trays and ladders

2 pieces required per joint



Adjustable Splice Plate

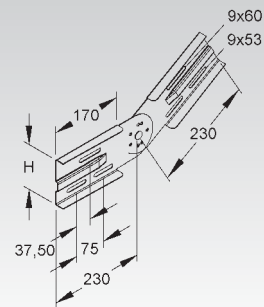
vertical

model no.	height H mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S WSGV 105	106,5/4,2	6 FLM 8x13 F	305100	100
F WSGV 105 F	106,5/4,2	6 FLM 8x13 F	590308	100
E3 WSGV 105 E3	106,5/4,2	6 FLM 8x16 E3	725304	100

For custom built vertical elbows

2 pieces required per joint

Equipotential bonding guaranteed by bolting the splice plate properly



Adjustable Splice Plate

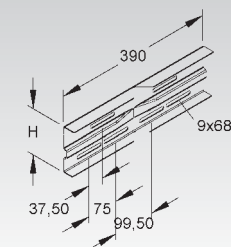
horizontal

model no.	height H mm/Inch	width B mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S WSWV 105.390	106,5/4,2	390/15,2	6 FLM 8x13 F	305377	93
F WSWV 105.390 F	106,5/4,2	390/15,2	6 FLM 8x13 F	590452	93
E3 WSWV 105.390 E3	106,5/4,2	390/15,2	6 FLM 8x16 E3	725458	93

For custom built horizontal elbows

2 pieces required per joint

Equipotential bonding guaranteed by bolting the splice plate properly

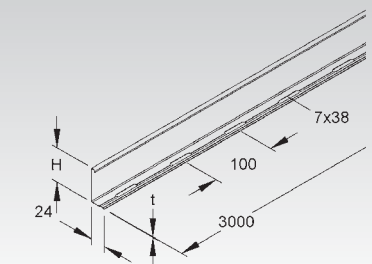


Barrier Strip

model no.	height H mm/Inch	thick- ness t mm/Inch	acc. incl.	EAN code	Weight per 100 m kg
S RW 85	80/3,1	0,9	4 FLM 6x12	237609	92
F RW 85 F	80/3,1	0,9	4 FLM 6x12 F	237708	92
E3 RW 85 E3	80/3,1	0,9	4 FLM 6x12 E3	333424	92

To separate wires and cables of different voltage levels or with different functions.

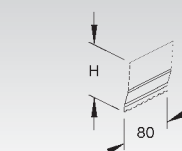
Flange with slotted holes 7x38 mm, spacing 100 mm.



Splice Plate for Barrier Strip

model no.	height H mm/Inch	length A mm/Inch	EAN code	Weight per 100 pc. kg
E2 RTV 85 E2	79,5/3,1	80/3,1	237753	2

For positive locking connections and proper bonding of barrier strips.



LONG SPAN CABLE TRAY

Mounting Clamp for Barrier Strip

model no.	acc. incl.	EAN code	Weight per 100 pc. kg
G KLWC 16	FK 6x12, GSM 406	289707	2,4
F KLWC 16 F	FK 6x10 E3, GSM 406 E3	570508	5
E3 KLWC 16 E3	FK 6x10 E3, GSM 406 E3	341641	5

For attaching barrier strips to rungs (slot width 16 mm) of cable ladders.

Insertable at any position of the rail.



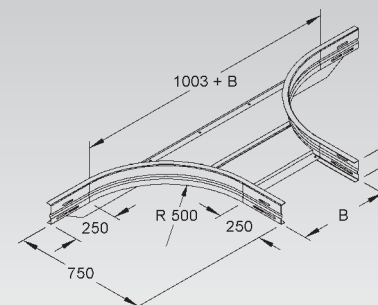
Extension Horizontal Tee

with rounded solid siderails and a corrugated solid bottom



model no.	height H	width B	acc. incl.	EAN code	Weight per 100 kg
	mm/Inch	mm/Inch			
S WRTAR 105.200	106,5/4,2	205/8	12 FLM 8x13 F	949106	1131,4
S WRTAR 105.300	106,5/4,2	305/11,9	12 FLM 8x13 F	949113	1199,8
S WRTAR 105.400	106,5/4,2	405/15,8	12 FLM 8x13 F	949120	1268,4
S WRTAR 105.500	106,5/4,2	505/19,7	12 FLM 8x13 F	949137	1337
S WRTAR 105.600	106,5/4,2	605/23,6	12 FLM 8x13 F	949144	1405,6
F WRTAR 105.200F	106,5/4,2	205/8	12 FLM 8x13 F	950034	1228,2
F WRTAR 105.300F	106,5/4,2	305/11,9	12 FLM 8x13 F	950041	1301,7
F WRTAR 105.400F	106,5/4,2	405/15,8	12 FLM 8x13 F	950058	1375,5
F WRTAR 105.500F	106,5/4,2	505/19,7	12 FLM 8x13 F	950065	1449,2
F WRTAR 105.600F	106,5/4,2	605/23,6	12 FLM 8x13 F	950072	1523
E3 WRTAR105.200E3	106,5/4,2	205/8	12 FLM 8x16 E3	950966	1131,4
E3 WRTAR105.300E3	106,5/4,2	305/11,9	12 FLM 8x16 E3	950973	1199,8
E3 WRTAR105.400E3	106,5/4,2	405/15,8	12 FLM 8x16 E3	950980	1268,4
E3 WRTAR105.500E3	106,5/4,2	505/19,7	12 FLM 8x16 E3	950997	1337
E3 WRTAR105.600E3	106,5/4,2	605/23,6	12 FLM 8x16 E3	951000	1405,6

The radius of the fittings is such that cables can be installed according to DIN/VDE 0298, part 3 standard.



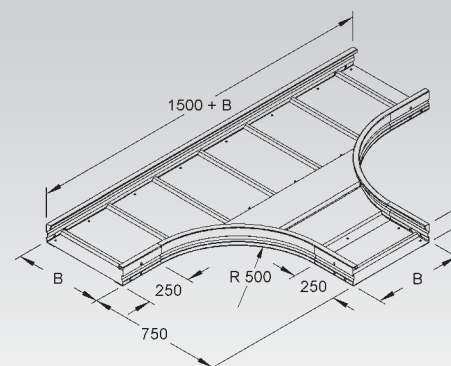
Horizontal Tee

with rounded solid siderails and a corrugated solid bottom



model no.	height H	width B	EAN code	Weight per 100 kg
	mm/Inch	mm/Inch		
S WRTR 105.200	105/4,1	200/7,8	949434	1608,6
S WRTR 105.300	105/4,1	300/11,7	949441	1855,9
S WRTR 105.400	105/4,1	400/15,6	949458	2122,9
S WRTR 105.500	105/4,1	500/19,5	949465	2405,9
S WRTR 105.600	105/4,1	600/23,4	949472	2697,9
F WRTR 105.200 F	105/4,1	200/7,8	950362	1744,8
F WRTR 105.300 F	105/4,1	300/11,7	950379	2011
F WRTR 105.400 F	105/4,1	400/15,6	950386	2298,5
F WRTR 105.500 F	105/4,1	500/19,5	950393	2603,1
F WRTR 105.600 F	105/4,1	600/23,4	950409	2917,4
E3 WRTR 105.200E3	105/4,1	200/7,8	951185	1608,6
E3 WRTR 105.300E3	105/4,1	300/11,7	951192	1855,9
E3 WRTR 105.400E3	105/4,1	400/15,6	951208	2122,9
E3 WRTR 105.500E3	105/4,1	500/19,5	951215	2405,9
E3 WRTR 105.600E3	105/4,1	600/23,4	951222	2697,9

The radius of the fittings is such that cables can be installed according to DIN/VDE 0298, part 3 standard.



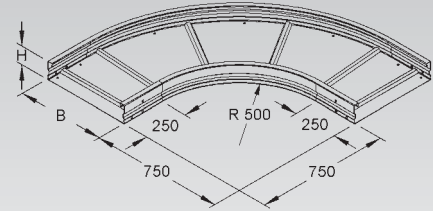
Horizontal Elbow 90°

with rounded solid siderails and a corrugated solid bottom

	model no.	height H mm/Inch	width B mm/Inch	EAN code	Weight per 100 kg
★	S WRBR 105.200	105/4,1	200/7,8	949281	958,2
★	S WRBR 105.300	105/4,1	300/11,7	949298	1136,1
★	S WRBR 105.400	105/4,1	400/15,6	949304	1326,7
★	S WRBR 105.500	105/4,1	500/19,5	949311	1530
★	S WRBR 105.600	105/4,1	600/23,4	949328	1744,8
★	F WRBR 105.200 F	105/4,1	200/7,8	950218	1040,8
★	F WRBR 105.300 F	105/4,1	300/11,7	950225	1232,6
★	F WRBR 105.400 F	105/4,1	400/15,6	950232	1438,2
★	F WRBR 105.500 F	105/4,1	500/19,5	950249	1657,3
★	F WRBR 105.600 F	105/4,1	600/23,4	950256	1888,8
★	E3 WRBR 105.200E3	105/4,1	200/7,8	951086	958,2
★	E3 WRBR 105.300E3	105/4,1	300/11,7	951093	1136,1
★	E3 WRBR 105.400E3	105/4,1	400/15,6	951109	1326,7
★	E3 WRBR 105.500E3	105/4,1	500/19,5	951116	1530
★	E3 WRBR 105.600E3	105/4,1	600/23,4	951123	1744,8

The radius of the fittings is such that cables can be installed according to DIN/VDE 0298, part 3 standard.

105



LONG SPAN CABLE TRAY

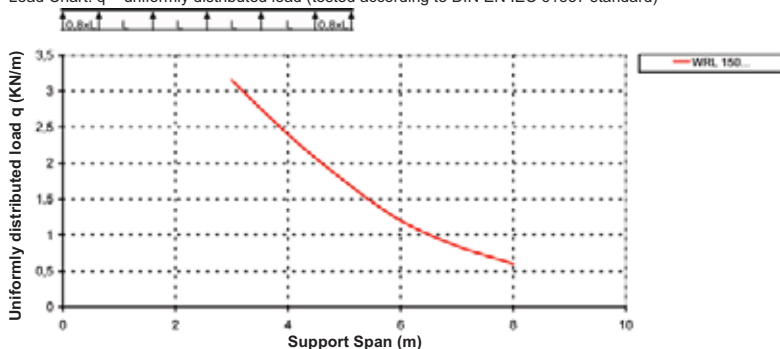
Long Span Cable Tray

ventilated bottom

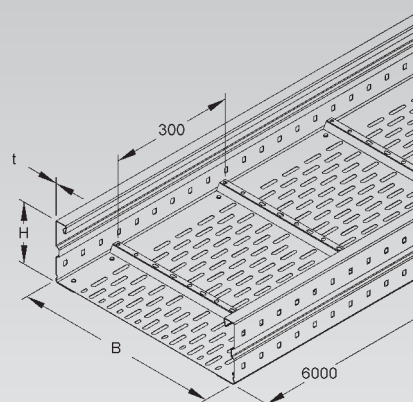
model no.	height H	width B	thickness t	delivery length	EAN code	Weight per 100 m kg
	mm/Inch	mm/Inch	mm/Inch	m		
S WRL 150.200	150/5,8	200/7,8	1,5	6	313204	750
S WRL 150.300	150/5,8	300/11,7	1,5	6	313303	815
S WRL 150.400	150/5,8	400/15,6	1,5	6	313402	880
S WRL 150.500	150/5,8	500/19,5	1,5	6	313501	945
S WRL 150.600	150/5,8	600/23,4	1,5	6	313600	1010
F WRL 150.200 F	150/5,8	200/7,8	1,5	6	590506	750
F WRL 150.300 F	150/5,8	300/11,7	1,5	6	590605	815
F WRL 150.400 F	150/5,8	400/15,6	1,5	6	590704	880
F WRL 150.500 F	150/5,8	500/19,5	1,5	6	590803	945
F WRL 150.600 F	150/5,8	600/23,4	1,5	6	590902	1010
E3 WRL 150.200 E3	150/5,8	200/7,8	1,5	6	725502	750
E3 WRL 150.300 E3	150/5,8	300/11,7	1,5	6	725526	815
E3 WRL 150.400 E3	150/5,8	400/15,6	1,5	6	725540	880
E3 WRL 150.500 E3	150/5,8	500/19,5	1,5	6	725564	945
E3 WRL 150.600 E3	150/5,8	600/23,4	1,5	6	725588	1010

A bottom connection plate RSL... is included with every straight section of tray (width ≥ 400 mm)

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



Specified load ratings are independent of splice plate location.

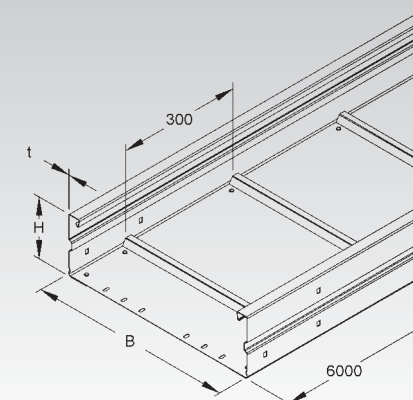


Long Span Cable Tray

solid bottom

model no.	height H	width B	thickness t	delivery length	EAN code	Weight per 100 m kg
	mm/Inch	mm/Inch	mm/Inch	m		
S WRU 150.200	150/5,8	200/7,8	1,5	6	313709	777
S WRU 150.300	150/5,8	300/11,7	1,5	6	313808	855
S WRU 150.400	150/5,8	400/15,6	1,5	6	313907	934
S WRU 150.500	150/5,8	500/19,5	1,5	6	314003	1014
S WRU 150.600	150/5,8	600/23,4	1,5	6	314102	1092
F WRU 150.200 F	150/5,8	200/7,8	1,5	6	591008	777
F WRU 150.300 F	150/5,8	300/11,7	1,5	6	591107	855
F WRU 150.400 F	150/5,8	400/15,6	1,5	6	591206	934
F WRU 150.500 F	150/5,8	500/19,5	1,5	6	591305	1014
F WRU 150.600 F	150/5,8	600/23,4	1,5	6	591404	1092

A bottom connection plate RSL... is included with every straight section of tray (width ≥ 400 mm)



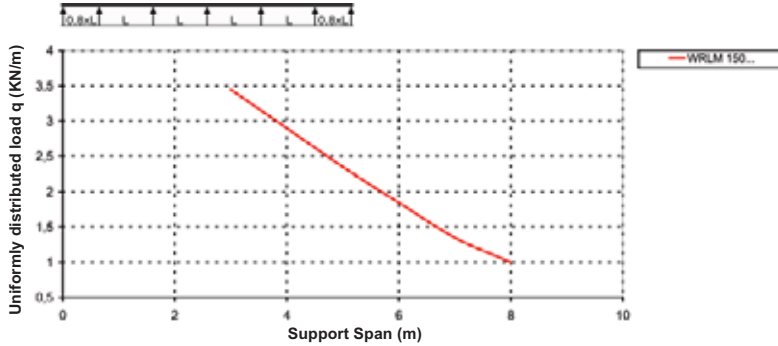
Long Span Cable Tray

ventilated bottom

model no.	height H mm/Inch	width B mm/Inch	thick- ness t mm/Inch	delivery length m	EAN code	Weight per 100 m kg
S WRLM 150.200	150/5,8	200/7,8	2	6	893300	950
S WRLM 150.300	150/5,8	300/11,7	2	6	893317	1015
S WRLM 150.400	150/5,8	400/15,6	2	6	893324	1080
S WRLM 150.500	150/5,8	500/19,5	2	6	893331	1145
S WRLM 150.600	150/5,8	600/23,4	2	6	893348	1210
F WRLM 150.200 F	150/5,8	200/7,8	2	6	893355	950
F WRLM 150.300 F	150/5,8	300/11,7	2	6	893362	1015
F WRLM 150.400 F	150/5,8	400/15,6	2	6	893379	1080
F WRLM 150.500 F	150/5,8	500/19,5	2	6	893386	1145
F WRLM 150.600 F	150/5,8	600/23,4	2	6	893393	1210

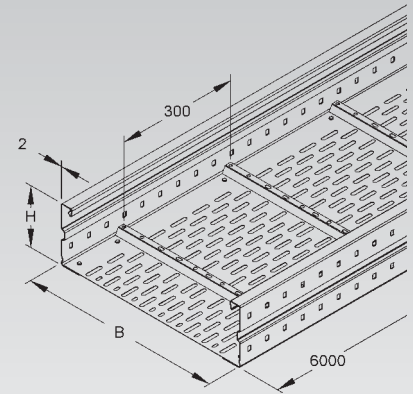
A bottom connection plate RSL... is included with every straight section of tray (width ≥ 400 mm)

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



Specified load ratings are independent of splice plate location.

150



Splice Plate

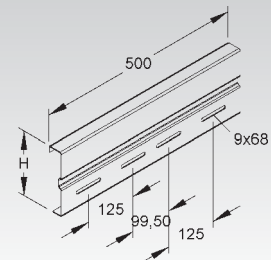
model no.	height H mm/Inch	width B mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S WSV 150.500	151,5/5,9	500/19,5	4 FLM 8x13 F	301706	180
F WSV 150.500 F	151,5/5,9	500/19,5	4 FLM 8x13 F	301805	180
E3 WSV 150.500 E3	151,5/5,9	500/19,5	4 FLM 8x16 E3	340149	180

For positive locking connections of long span trays and ladders.

2 pieces required per joint

Equipotential bonding guaranteed by bolting the splice plate properly.

150



Adjustable Splice Plate

vertical

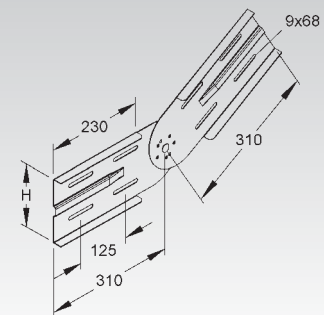
model no.	height H mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S WSGV 150	151,5/5,9	6 FLM 8x13 F	305209	180
F WSGV 150 F	151,5/5,9	6 FLM 8x13 F	593002	180
E3 WSGV 150 E3	151,5/5,9	6 FLM 8x16 E3	726004	180

For custom built vertical elbows.

2 pieces required per joint

Equipotential bonding guaranteed by bolting the splice plate properly.

150



LONG SPAN CABLE TRAY

Adjustable Splice Plate

horizontal

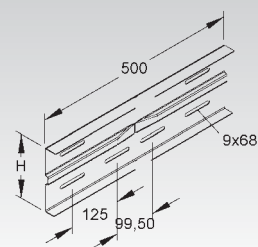
model no.	height H mm/Inch	width B mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S WSWV 150	151,5/5,9	500/19,5	6 FLM 8x13 F	305407	180
F WSWV 150 F	151,5/5,9	500/19,5	6 FLM 8x13 F	593101	180
E3 WSWV 150 E3	151,5/5,9	500/19,5	6 FLM 8x16 E3	726103	180

For custom built horizontal elbows.

2 pieces required per joint

Equipotential bonding guaranteed by bolting the splice plate properly.

150



Barrier Strip

model no.	height H mm/Inch	thick- ness t mm/Inch	acc. incl.	EAN code	Weight per 100 m kg
S RW 110	98/3,8	0,9	4 FLM 6x12	251001	90
F RW 110 F	98/3,8	0,9	4 FLM 6x12 F	251100	90
E3 RW 110 E3	98/3,8	0,9	4 FLM 6x12 E3	333509	92

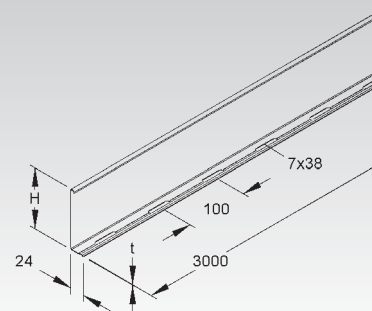
To separate wires and cables of different voltage levels or with different functions.
to separate wires and cables of different voltage levels or with different functions.

Flange with slotted holes 7x38 mm, spacing 100 mm.

110



61



Splice Plate for Barrier Strip

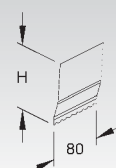
model no.	height H mm/Inch	length A mm/Inch	EAN code	Weight per 100 pc. kg
E2 RTV 110 E2	97,5/3,8	80/3,1	251162	3

For positive locking connections and proper bonding of barrier strips.

110



61



Extension Horizontal Tee

with rounded solid siderails and a corrugated solid bottom

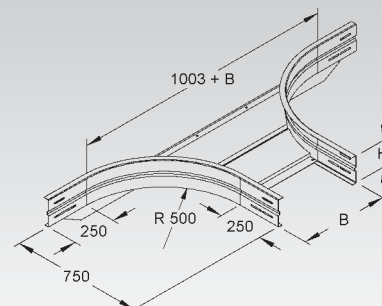
model no.	height H mm/Inch	width B mm/Inch	acc. incl.	EAN code	Weight per 100 kg
S WRTAR 150.200	151,5/5,9	205/8	12 FLM 8x13 F	949151	1290,1
S WRTAR 150.300	151,5/5,9	305/11,9	12 FLM 8x13 F	949168	1358,5
S WRTAR 150.400	151,5/5,9	405/15,8	12 FLM 8x13 F	949175	1427,1
S WRTAR 150.500	151,5/5,9	505/19,7	12 FLM 8x13 F	949182	1495,7
S WRTAR 150.600	151,5/5,9	605/23,6	12 FLM 8x13 F	949199	1564,3
F WRTAR 150.200F	151,5/5,9	205/8	12 FLM 8x13 F	950089	1386,9
F WRTAR 150.300F	151,5/5,9	305/11,9	12 FLM 8x13 F	950096	1460,4
F WRTAR 150.400F	151,5/5,9	405/15,8	12 FLM 8x13 F	950102	1534,1
F WRTAR 150.500F	151,5/5,9	505/19,7	12 FLM 8x13 F	950119	1607,9
F WRTAR 150.600F	151,5/5,9	605/23,6	12 FLM 8x13 F	950126	1681,6

The radius of the fittings is such that cables can be installed according to DIN/VDE 0298, part 3 standard.

150



65



Horizontal Tee

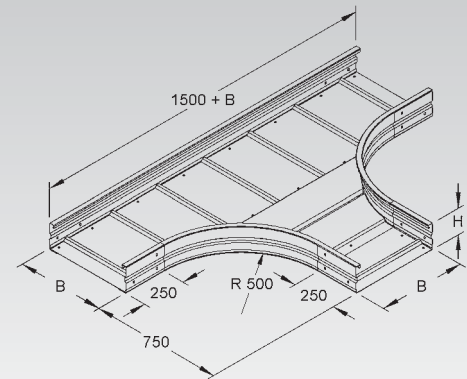
with rounded solid siderails and a corrugated solid bottom

model no.	height H mm/Inch	width B mm/Inch	EAN code	Weight per 100 kg
★ S WRTR 150.200	150/5,8	200/7,8	949489	1815,3
★ S WRTR 150.300	150/5,8	300/11,7	949496	2067,9
★ S WRTR 150.400	150/5,8	400/15,6	949502	2340,2
★ S WRTR 150.500	150/5,8	500/19,5	949519	2628,5
★ S WRTR 150.600	150/5,8	600/23,4	949526	2925,8
★ F WRTR 150.200 F	150/5,8	200/7,8	950416	1951,4
★ F WRTR 150.300 F	150/5,8	300/11,7	950423	2223
★ F WRTR 150.400 F	150/5,8	400/15,6	950430	2515,7
★ F WRTR 150.500 F	150/5,8	500/19,5	950447	2825,6
★ F WRTR 150.600 F	150/5,8	600/23,4	950454	3145,2
★ E3 WRTR 150.200E3	150/5,8	200/7,8	951239	1815,3
★ E3 WRTR 150.300E3	150/5,8	300/11,7	951246	2067,9
★ E3 WRTR 150.400E3	150/5,8	400/15,6	951253	2340,2
★ E3 WRTR 150.500E3	150/5,8	500/19,5	951260	2628,5
★ E3 WRTR 150.600E3	150/5,8	600/23,4	951277	2925,8

The radius of the fittings is such that cables can be installed according to DIN/VDE 0298, part 3 standard.

The splice plates WSV 150.500 are not included. Please order separately.

150



Horizontal Elbow 90°

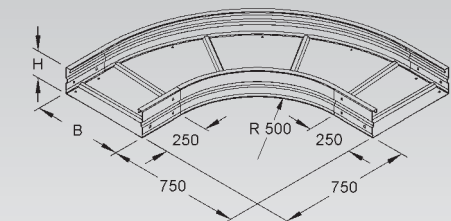
with rounded solid siderails and a corrugated solid bottom

model no.	height H mm/Inch	width B mm/Inch	EAN code	Weight per 100 kg
★ S WRBR 150.200	150/5,8	200/7,8	949335	1101,2
★ S WRBR 150.300	150/5,8	300/11,7	949342	1287,4
★ S WRBR 150.400	150/5,8	400/15,6	949359	1486,4
★ S WRBR 150.500	150/5,8	500/19,5	949366	1697,9
★ S WRBR 150.600	150/5,8	600/23,4	949373	1921
★ F WRBR 150.200 F	150/5,8	200/7,8	950263	1183,8
★ F WRBR 150.300 F	150/5,8	300/11,7	950270	1384
★ F WRBR 150.400 F	150/5,8	400/15,6	950287	1597,9
★ F WRBR 150.500 F	150/5,8	500/19,5	950294	1825,2
★ F WRBR 150.600 F	150/5,8	600/23,4	950300	2065,1
★ E3 WRBR 150.200E3	150/5,8	200/7,8	951130	1101,2
★ E3 WRBR 150.300E3	150/5,8	300/11,7	951147	1287,4
★ E3 WRBR 150.400E3	150/5,8	400/15,6	951154	1486,4
★ E3 WRBR 150.500E3	150/5,8	500/19,5	951161	1697,9
★ E3 WRBR 150.600E3	150/5,8	600/23,4	951178	1921

The radius of the fittings is such that cables can be installed according to DIN/VDE 0298, part 3 standard.

The splice plates WSV 150.500 are not included. Please order separately.

150

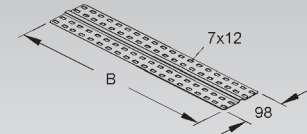


Bottom Connection Plate

for additional requirements

model no.	width B mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S RSL 400	389/15,2	4 FLM 6x12	305445	27
S RSL 500	489/19,1	4 FLM 6x12	305469	34
S RSL 600	589/23	4 FLM 6x12	305483	41
F RSL 400 F	389/15,2	4 FLM 6x12 F	593149	27
F RSL 500 F	489/19,1	4 FLM 6x12 F	424214	34
F RSL 600 F	589/23	4 FLM 6x12 F	593187	41
E3 RSL 400 E3	389/15,2	4 FLM 6x12 E3	726202	25
E3 RSL 500 E3	489/19,1	4 FLM 6x12 E3	726301	35
E3 RSL 600 E3	589/23	4 FLM 6x12 E3	726400	35

To guarantee smooth bottom plate joints of long span trays (needed only for width > 300 mm).



LONG SPAN CABLE LADDER

Available Side Rail Heights

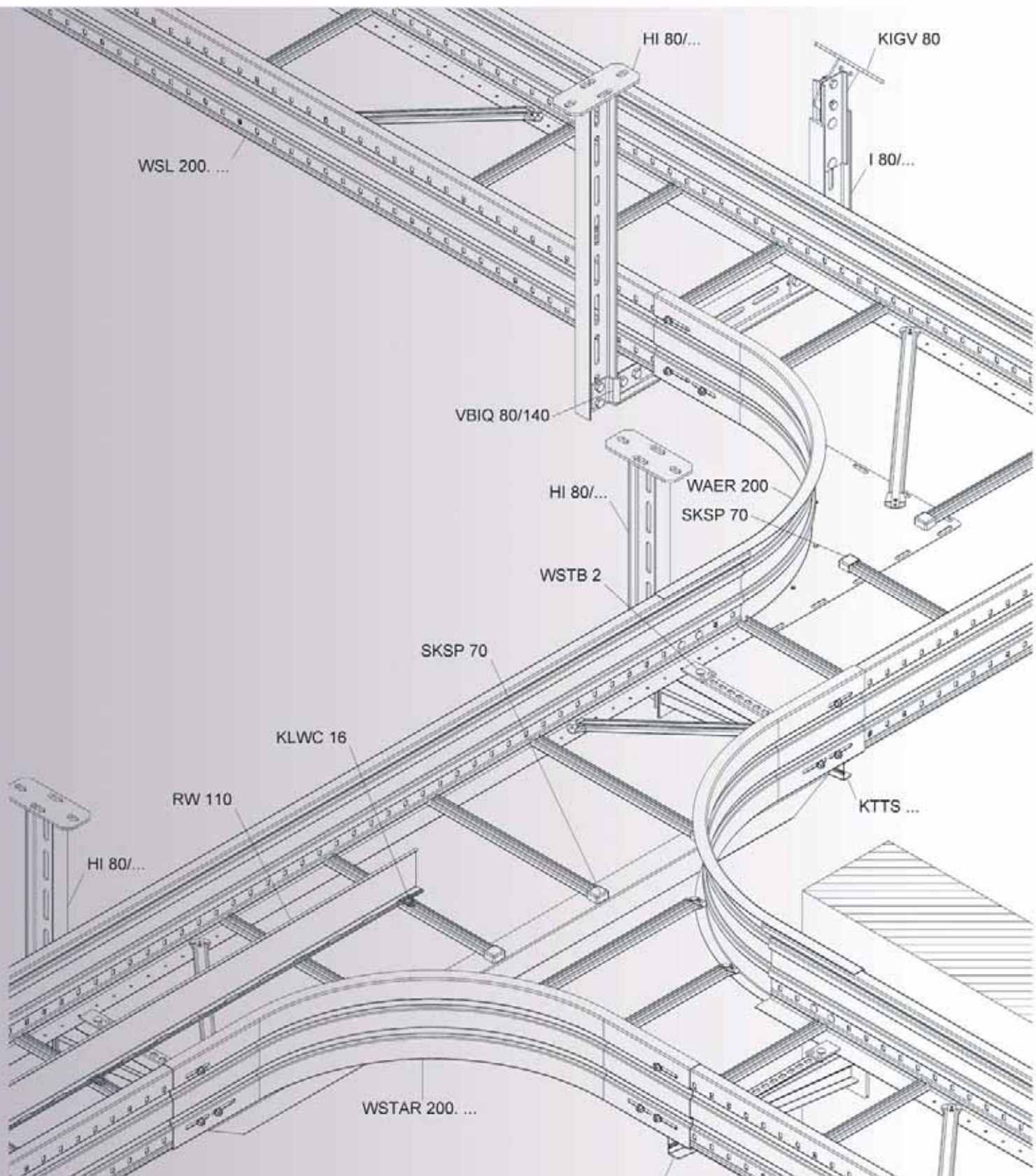
SYSTEM	Long Span Cable Ladder	WSL	 Page 247	 Page 250
	Long Span Cable Ladder	WSLM	 —	 Page 250
	Splice Plate	WSV	 Page 247	 Page 251
ACCESSORIES	Adjustable Splice Plate, vertical	WSGV	 Page 247	 Page 251
	Adjustable Splice Plate, horizontal	WSWV	 Page 248	 Page 251
	Barrier Strip	RW	 Page 248	 Page 251
	Splice Plate for Barrier Strip	RTV	 Page 248	 Page 252
	Mounting Clamp for Barrier Strip	KLWC 16	 Page 248	 Page 252
	Extension Horizontal Tee	WSTAR	 Page 249	 Page 252
	Horizontal Tee	WSTR	 Page 249	 Page 252
	Elbow 90°	WSBR	 Page 249	 Page 253
	Ladder Drop Out	WLAB	 —	 Page 253
	Cover for Long Span Cable Trays/Ladders	WDV	Page 254	
	Cover for Horizontal Extension Tee	WTARDV	Page 254	
	Cover for Horizontal Tee	WTRDV	Page 254	
	Cover for 90° Horizontal Elbow	WBRDV	Page 255	
	Turn-bolt Lock	WDRS	Page 255	
	Two Hole Corner Angle	WWU	Page 255	
	Three Hole Corner Angle	WWA	Page 255	

Support Span L m	WSL 105...		WSL 150...		WSLM 150...	
	q KN/m	F KN	q KN/m	F KN	q KN/m	F KN
3	2,95	9,05	3,15	9,70	3,45	10,65
4	1,70	7,05	2,30	9,50	2,60	10,80
5	1,00	5,35	1,45	7,60	2,00	10,50
6	0,60	4,00	0,85	5,55	1,50	9,60
7	0,40	3,25	0,55	4,35	1,15	8,75
8	-	-	0,40	3,80	0,90	8,00
9	-	-	-	-	-	-
10	-	-	-	-	-	-
11	-	-	-	-	-	-
12	-	-	-	-	-	-

* Usable for all siderail heights

q = Uniformly distributed load

F = Force



LONG SPAN CABLE LADDER

Load / Span Class Designation in accordance with NEMA VE 1 and CSA E22.2 No. 126.1

NIEDAX Series	Minimum Area		Load class in accordance to NEMA VE 1		
	(calculational) mm ² / in. ²	in accordance to NEMA VE 2 mm ² / in. ²	Rated Load Kg/m / lb./ft.	Support spacing m / ft.	Load/Span Class
WSLX 105.300, ... F, ... E3	627.0 / 0.97	452 / 0.7	66.5 / 44.7	6 / 19.7	8C, C, 12C, 16A
WSLX 105.400, ... F, ... E3	627.0 / 0.97	452 / 0.7	66.5 / 44.7	6 / 19.7	8C, C, 12C, 16A
WSLX 105.500, ... F, ... E3	627.0 / 0.97	452 / 0.7	66.5 / 44.7	6 / 19.7	8C, C, 12C, 16A
WSLX 105.600, ... F, ... E3	627.0 / 0.97	452 / 0.7	66.5 / 44.7	6 / 19.7	8C, C, 12C, 16A
WSLX 150.200, ... F, ... E3	762.0 / 1.18	645 / 1.0	73.0 / 49.1	6 / 19.7	8C, 12C, 16A, D
WSLX 150.300, ... F, ... E3	762.0 / 1.18	645 / 1.0	73.0 / 49.1	6 / 19.7	8C, 12C, 16A, D
WSLX 150.400, ... F, ... E3	762.0 / 1.18	645 / 1.0	73.0 / 49.1	6 / 19.7	8C, 12C, 16A, D
WSLX 150.500, ... F, ... E3	762.0 / 1.18	645 / 1.0	73.0 / 49.1	6 / 19.7	8C, 12C, 16A, D
WSLX 150.600, ... F, ... E3	762.0 / 1.18	645 / 1.0	73.0 / 49.1	6 / 19.7	8C, 12C, 16A, D
WSLMX 150.200, ... F	896 / 1.39	645 / 1.0	122 / 82	6 / 19.7	8C, 12C, 16C, E, 20B
WSLMX 150.300, ... F	896 / 1.39	645 / 1.0	122 / 82	6 / 19.7	8C, 12C, 16C, E, 20B
WSLMX 150.400, ... F	896 / 1.39	645 / 1.0	122 / 82	6 / 19.7	8C, 12C, 16C, E, 20B
WSLMX 150.500, ... F	896 / 1.39	645 / 1.0	122 / 82	6 / 19.7	8C, 12C, 16C, E, 20B
WSLMX 150.600, ... F	896 / 1.39	645 / 1.0	122 / 82	6 / 19.7	8C, 12C, 16C, E, 20B
WSLX 200.200, ... F	924.0 / 1.43	645 / 1.0	63.0 / 42.3	6 / 19.7	8C, C, 12C, 16A
WSLX 200.300, ... F	924.0 / 1.43	645 / 1.0	63.0 / 42.3	6 / 19.7	8C, C, 12C, 16A
WSLX 200.400, ... F	924.0 / 1.43	645 / 1.0	63.0 / 42.3	6 / 19.7	8C, C, 12C, 16A
WSLX 200.500, ... F	924.0 / 1.43	645 / 1.0	63.0 / 42.3	6 / 19.7	8C, C, 12C, 16A
WSLX 200.600, ... F	924.0 / 1.43	645 / 1.0	63.0 / 42.3	6 / 19.7	8C, C, 12C, 16A
WSLSX 200.200, ... F	1460.0 / 2.26	968 / 1.5	260.0 / 174.7	6 / 19.7	8C, 12C, 16C, E, 20C
WSLSX 200.300, ... F	1460.0 / 2.26	968 / 1.5	260.0 / 174.7	6 / 19.7	8C, 12C, 16C, E, 20C
WSLSX 200.400, ... F	1460.0 / 2.26	968 / 1.5	260.0 / 174.7	6 / 19.7	8C, 12C, 16C, E, 20C
WSLSX 200.500, ... F	1460.0 / 2.26	968 / 1.5	260.0 / 174.7	6 / 19.7	8C, 12C, 16C, E, 20C
WSLSX 200.600, ... F	1460.0 / 2.26	968 / 1.5	260.0 / 174.7	6 / 19.7	8C, 12C, 16C, E, 20C

The Niedax Long Span Ladder with 6" side rail height is also available with a NEMA 20 C load rating. The basic design is similar to the WSLM 150 series, but the heavier duty 2986 rungs will allow a higher load rating. The WSLMX 150 long span ladder is available in 450 mm (18"), 600 mm (24"), 750 mm (30") and 900 mm (36") width. The thickness of siderails and rungs is 2 mm (14 gauge). Siderail height is 150mm (6") with a load depth of 126 mm (5"). Standard rung spacing is 300 mm (10").

WSLMX 150.453-86 in S, F, E3, E5

WSLMX 150.603-86 in S, F, E3, E5

WSLMX 150.753-86 in S, F, E3, E5

WSLMX 150.903-86 in S, F, E3, E5

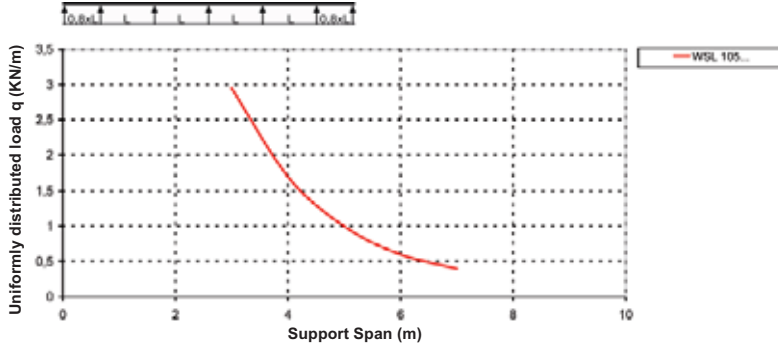
Long Span Cable Ladder

C-rail rungs with 16 mm slot width

model no.	height H	width B	thick- ness t	delivery length m	EAN code	Weight per 100 m kg
S WSL 105.200	105/4,1	200/7,8	1,5	6	300600	534
S WSL 105.300	105/4,1	300/11,7	1,5	6	300709	559
S WSL 105.400	105/4,1	400/15,6	1,5	6	300808	584
S WSL 105.500	105/4,1	500/19,5	1,5	6	300907	609
S WSL 105.600	105/4,1	600/23,4	1,5	6	301003	634
F WSL 105.200 F	105/4,1	200/7,8	1,5	6	577606	534
F WSL 105.300 F	105/4,1	300/11,7	1,5	6	577705	559
F WSL 105.400 F	105/4,1	400/15,6	1,5	6	577804	584
F WSL 105.500 F	105/4,1	500/19,5	1,5	6	577903	609
F WSL 105.600 F	105/4,1	600/23,4	1,5	6	578009	634
E3 WSL 105.200 E3	105/4,1	200/7,8	1,5	6	726509	534
E3 WSL 105.300 E3	105/4,1	300/11,7	1,5	6	726523	559
E3 WSL 105.400 E3	105/4,1	400/15,6	1,5	6	726547	584
E3 WSL 105.500 E3	105/4,1	500/19,5	1,5	6	726561	609
E3 WSL 105.600 E3	105/4,1	600/23,4	1,5	6	726585	634

Corresponding yoke clamps (B... and BK...) are listed in a separate section of this catalog.

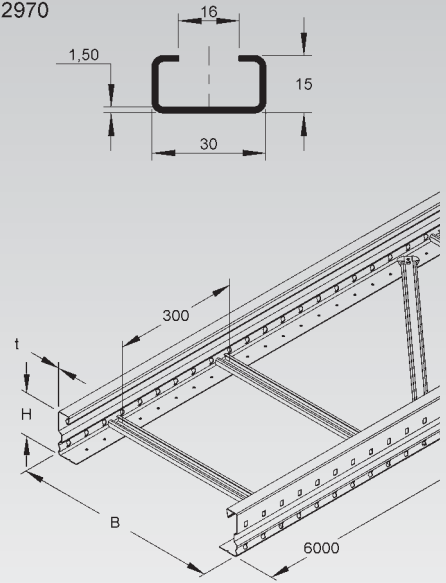
Load Chart: q = uniformly distributed load (tested according to DIN EN IEC 61537 standard)



Specified load ratings are independent of splice plate location.

105 57

2970



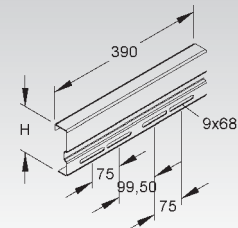
Splice Plate

model no.	height H	width B	acc. incl.	EAN code	Weight per 100 pc. kg
S WSV 105.390	106,5/4,2	390/15,2	4 FLM 8x13 F	301959	118,5
F WSV 105.390 F	106,5/4,2	390/15,2	4 FLM 8x13 F	302055	121,5
E3 WSV 105.390 E3	106,5/4,2	390/15,2	4 FLM 8x16 E3	340132	80

For positive locking connections of long span trays and ladders

2 pieces required per joint

105 64



Adjustable Splice Plate

vertical

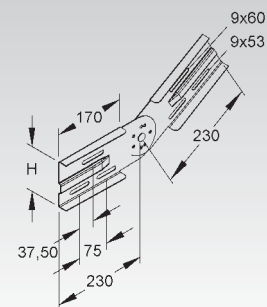
model no.	height H	acc. incl.	EAN code	Weight per 100 pc. kg
S WSGV 105	106,5/4,2	6 FLM 8x13 F	305100	100
F WSGV 105 F	106,5/4,2	6 FLM 8x13 F	590308	100
E3 WSGV 105 E3	106,5/4,2	6 FLM 8x16 E3	725304	100

For custom built vertical elbows

2 pieces required per joint

Equipotential bonding guaranteed by bolting the splice plate properly

105



LONG SPAN CABLE LADDER

Adjustable Splice Plate

horizontal

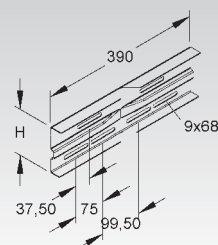
model no.	height H	width B	acc. incl.	EAN code	Weight per 100 pc. kg
S WSWV 105.390	106,5/4,2	390/15,2	6 FLM 8x13 F	305377	93
F WSWV 105.390 F	106,5/4,2	390/15,2	6 FLM 8x13 F	590452	93
E3 WSWV 105.390E3	106,5/4,2	390/15,2	6 FLM 8x16 E3	725458	93

For custom built horizontal elbows

2 pieces required per joint

Equipotential bonding guaranteed by bolting the splice plate properly

105



Barrier Strip

model no.	height H	thick- ness t	acc. incl.	EAN code	Weight per 100 m kg
S RW 85	80/3,1	0,9	4 FLM 6x12	237609	92
F RW 85 F	80/3,1	0,9	4 FLM 6x12 F	237708	92
E3 RW 85 E3	80/3,1	0,9	4 FLM 6x12 E3	333424	92

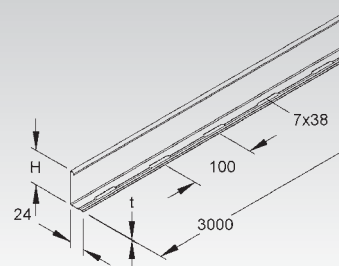
To separate wires and cables of different voltage levels or with different functions.

Flange with slotted holes 7x38 mm, spacing 100 mm.

85



61



Splice Plate for Barrier Strip

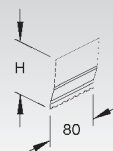
model no.	height H	length A	EAN code	Weight per 100 pc. kg
E2 RTV 85 E2	79,5/3,1	80/3,1	237753	2

For positive locking connections and proper bonding of barrier strips.

85



61



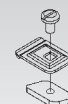
Mounting Clamp for Barrier Strip

model no.	acc. incl.	EAN code	Weight per 100 pc. kg
G KLWC 16	FK 6x12, GSM 406	289707	2,4
F KLWC 16 F	FK 6x10 E3, GSM 406 E3	570508	5
E3 KLWC 16 E3	FK 6x10 E3, GSM 406 E3	341641	5

For attaching barrier strips to rungs (slot width 16 mm) of cable ladders.

Insertable at any position of the rail.

61

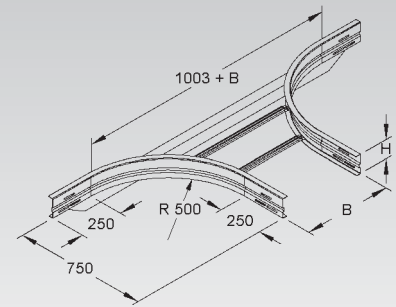


Extension Horizontal Tee

with rounded solid siderails and slotted rungs



65



model no.	height H mm/Inch	width B mm/Inch	acc. incl.	EAN code	Weight per 100 kg
★ S WSTAR 105.200	106,5/4,2	205/8	12 FLM 8x13 F	949588	841,7
★ S WSTAR 105.300	106,5/4,2	305/11,9	12 FLM 8x13 F	949595	878,6
★ S WSTAR 105.400	106,5/4,2	405/15,8	12 FLM 8x13 F	949601	915,3
★ S WSTAR 105.500	106,5/4,2	505/19,7	12 FLM 8x13 F	949618	955,3
★ S WSTAR 105.600	106,5/4,2	605/23,6	12 FLM 8x13 F	949625	987,1
★ F WSTAR 105.200F	106,5/4,2	205/8	12 FLM 8x13 F	950515	916,8
★ F WSTAR 105.300F	106,5/4,2	305/11,9	12 FLM 8x13 F	950522	956,4
★ F WSTAR 105.400F	106,5/4,2	405/15,8	12 FLM 8x13 F	950539	995,9
★ F WSTAR 105.500F	106,5/4,2	505/19,7	12 FLM 8x13 F	950546	1038,9
★ F WSTAR 105.600F	106,5/4,2	605/23,6	12 FLM 8x13 F	950553	1073,1
★ E3 WSTAR105.200E3	106,5/4,2	205/8	12 FLM 8x16 E3	951284	841,7
★ E3 WSTAR105.300E3	106,5/4,2	305/11,9	12 FLM 8x16 E3	951291	878,6
★ E3 WSTAR105.400E3	106,5/4,2	405/15,8	12 FLM 8x16 E3	951307	915,3
★ E3 WSTAR105.500E3	106,5/4,2	505/19,7	12 FLM 8x16 E3	951314	955,3
★ E3 WSTAR105.600E3	106,5/4,2	605/23,6	12 FLM 8x16 E3	951321	987,1

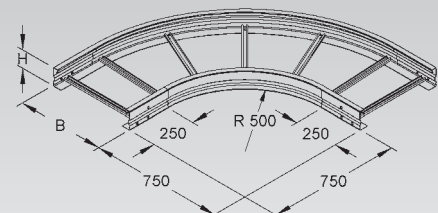
The radius of the fittings is such that cables can be installed according to DIN/VDE 0298, part 3 standard.

Horizontal Elbow 90°

with rounded solid siderails and slotted rungs



64



model no.	height H mm/Inch	width B mm/Inch	EAN code	Weight per 100 kg
★ S WSBR 105.200	105/4,1	200/7,8	949731	902,2
★ S WSBR 105.300	105/4,1	300/11,7	949748	995,2
★ S WSBR 105.400	105/4,1	400/15,6	949755	1117,7
★ S WSBR 105.500	105/4,1	500/19,5	949762	1214,3
★ S WSBR 105.600	105/4,1	600/23,4	949779	1314,6
★ F WSBR 105.200 F	105/4,1	200/7,8	950669	974,2
★ F WSBR 105.300 F	105/4,1	300/11,7	950676	1074,2
★ F WSBR 105.400 F	105/4,1	400/15,6	950683	1205,9
★ F WSBR 105.500 F	105/4,1	500/19,5	950690	1309,7
★ F WSBR 105.600 F	105/4,1	600/23,4	950706	1417,5
★ E3 WSBR 105.200E3	105/4,1	200/7,8	951383	902,2
★ E3 WSBR 105.300E3	105/4,1	300/11,7	951390	995,2
★ E3 WSBR 105.400E3	105/4,1	400/15,6	951406	1117,7
★ E3 WSBR 105.500E3	105/4,1	500/19,5	951413	1214,3
★ E3 WSBR 105.600E3	105/4,1	600/23,4	951420	1314,6

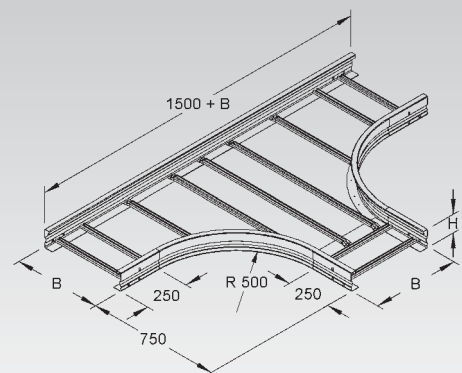
The radius of the fittings is such that cables can be installed according to DIN/VDE 0298, part 3 standard.

Horizontal Tee

with rounded solid siderails and slotted rungs



64



model no.	height H mm/Inch	width B mm/Inch	EAN code	Weight per 100 kg
★ S WSTR 105.200	105/4,1	200/7,8	949885	1418,3
★ S WSTR 105.300	105/4,1	300/11,7	949892	1527,5
★ S WSTR 105.400	105/4,1	400/15,6	949908	1691,1
★ S WSTR 105.500	105/4,1	500/19,5	949915	1887
★ S WSTR 105.600	105/4,1	600/23,4	949922	2015,3
★ F WSTR 105.200 F	105/4,1	200/7,8	950812	1533,5
★ F WSTR 105.300 F	105/4,1	300/11,7	950829	1650,8
★ F WSTR 105.400 F	105/4,1	400/15,6	950836	1826,7
★ F WSTR 105.500 F	105/4,1	500/19,5	950843	2037,3
★ F WSTR 105.600 F	105/4,1	600/23,4	950850	2175,2
★ E3 WSTR 105.200E3	105/4,1	200/7,8	951482	1418,3
★ E3 WSTR 105.300E3	105/4,1	300/11,7	951499	1527,5
★ E3 WSTR 105.400E3	105/4,1	400/15,6	951505	1691,1
★ E3 WSTR 105.500E3	105/4,1	500/19,5	951512	1887
★ E3 WSTR 105.600E3	105/4,1	600/23,4	951529	2015,3

The radius of the fittings is such that cables can be installed according to DIN/VDE 0298, part 3 standard.

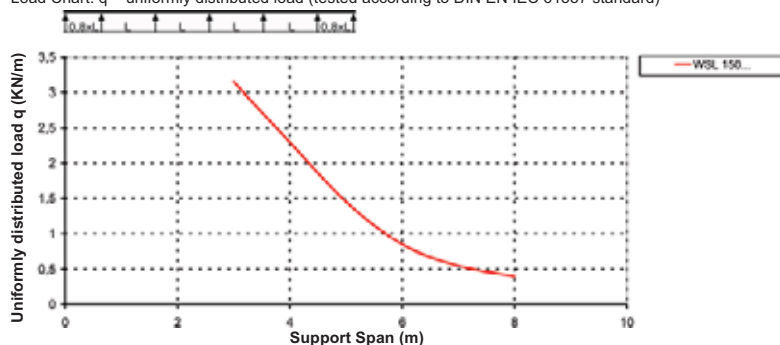
LONG SPAN CABLE LADDER

Long Span Cable Ladder

C-rail rungs with 16 mm slot width

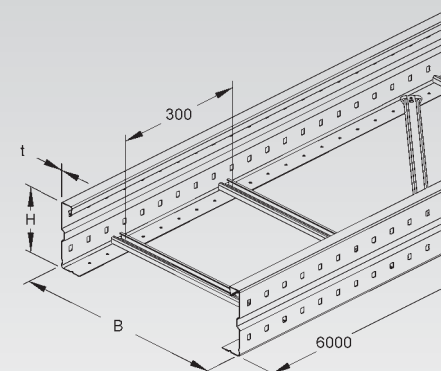
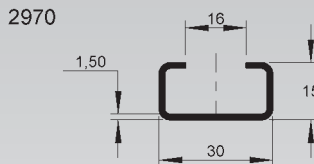
model no.	height H mm/Inch	width B mm/Inch	thick- ness t mm/Inch	delivery length m	EAN code	Weight per 100 m kg
S WSL 150.200	150/5,8	200/7,8	1,5	6	301102	560
S WSL 150.300	150/5,8	300/11,7	1,5	6	301201	637
S WSL 150.400	150/5,8	400/15,6	1,5	6	301300	660
S WSL 150.500	150/5,8	500/19,5	1,5	6	301508	684
S WSL 150.600	150/5,8	600/23,4	1,5	6	301607	707
F WSL 150.200 F	150/5,8	200/7,8	1,5	6	579600	560
F WSL 150.300 F	150/5,8	300/11,7	1,5	6	579709	637
F WSL 150.400 F	150/5,8	400/15,6	1,5	6	579808	660
F WSL 150.500 F	150/5,8	500/19,5	1,5	6	579907	684
F WSL 150.600 F	150/5,8	600/23,4	1,5	6	580002	707
E3 WSL 150.200 E3	150/5,8	200/7,8	1,5	6	727001	560
E3 WSL 150.300 E3	150/5,8	300/11,7	1,5	6	727025	637
E3 WSL 150.400 E3	150/5,8	400/15,6	1,5	6	727049	660
E3 WSL 150.500 E3	150/5,8	500/19,5	1,5	6	727063	684
E3 WSL 150.600 E3	150/5,8	600/23,4	1,5	6	727087	707

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



150

2970

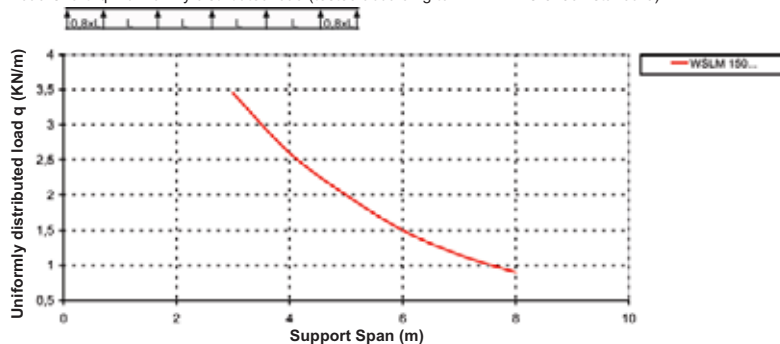


Long Span Cable Ladder

C-rail rungs with 16 mm slot width

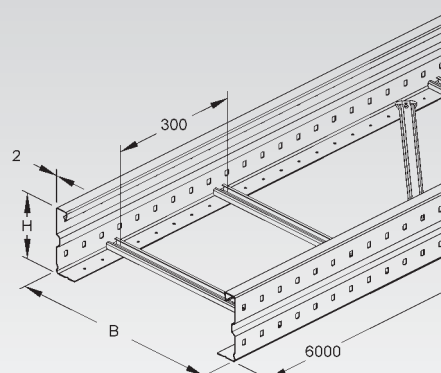
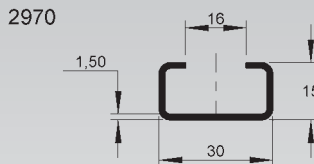
model no.	height H mm/Inch	width B mm/Inch	thick- ness t mm/Inch	delivery length m	EAN code	Weight per 100 m kg
S WSLM 150.200	150/5,8	200/7,8	2	6	893409	740
S WSLM 150.300	150/5,8	300/11,7	2	6	893416	840
S WSLM 150.400	150/5,8	400/15,6	2	6	893423	860
S WSLM 150.500	150/5,8	500/19,5	2	6	893430	880
S WSLM 150.600	150/5,8	600/23,4	2	6	893447	900
F WSLM 150.200 F	150/5,8	200/7,8	2	6	579518	740
F WSLM 150.300 F	150/5,8	300/11,7	2	6	579525	840
F WSLM 150.400 F	150/5,8	400/15,6	2	6	579532	860
F WSLM 150.500 F	150/5,8	500/19,5	2	6	579549	880
F WSLM 150.600 F	150/5,8	600/23,4	2	6	579556	900

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



150

2970



Splice Plate

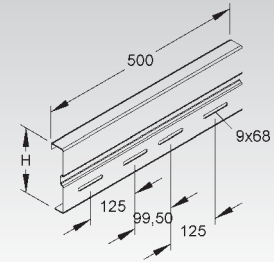
model no.	height H mm/Inch	width B mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S WSV 150.500	151,5/5,9	500/19,5	4 FLM 8x13 F	301706	180
F WSV 150.500 F	151,5/5,9	500/19,5	4 FLM 8x13 F	301805	180
E3 WSV 150.500 E3	151,5/5,9	500/19,5	4 FLM 8x16 E3	340149	180

For positive locking connections of long span trays and ladders.

2 pieces required per joint

Equipotential bonding guaranteed by bolting the splice plate properly.

150



Adjustable Splice Plate

vertical

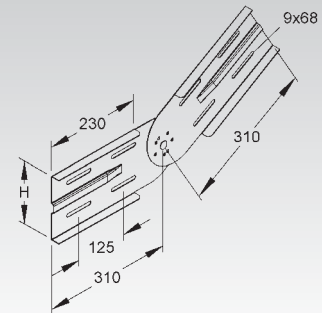
model no.	height H mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S WSGV 150	151,5/5,9	6 FLM 8x13 F	305209	180
F WSGV 150 F	151,5/5,9	6 FLM 8x13 F	593002	180
E3 WSGV 150 E3	151,5/5,9	6 FLM 8x16 E3	726004	180

For custom built vertical elbows.

2 pieces required per joint

Equipotential bonding guaranteed by bolting the splice plate properly.

150



Adjustable Splice Plate

horizontal

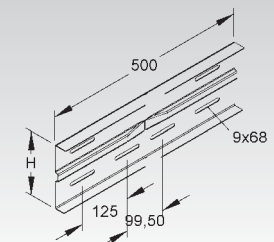
model no.	height H mm/Inch	width B mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S WSWV 150	151,5/5,9	500/19,5	6 FLM 8x13 F	305407	180
F WSWV 150 F	151,5/5,9	500/19,5	6 FLM 8x13 F	593101	180
E3 WSWV 150 E3	151,5/5,9	500/19,5	6 FLM 8x16 E3	726103	180

For custom built horizontal elbows.

2 pieces required per joint

Equipotential bonding guaranteed by bolting the splice plate properly.

150



Barrier Strip

model no.	height H mm/Inch	thick- ness t mm/Inch	acc. incl.	EAN code	Weight per 100 m kg
S RW 110	98/3,8	0,9	4 FLM 6x12	251001	90
F RW 110 F	98/3,8	0,9	4 FLM 6x12 F	251100	90
E3 RW 110 E3	98/3,8	0,9	4 FLM 6x12 E3	333509	92

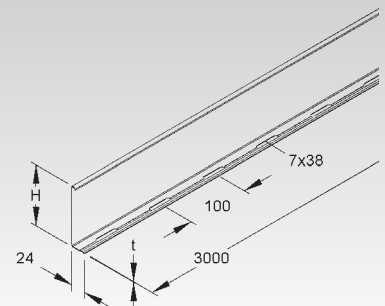
To separate wires and cables of different voltage levels or with different functions.
to separate wires and cables of different voltage levels or with different functions.

Flange with slotted holes 7x38 mm, spacing 100 mm.

110



61



LONG SPAN CABLE LADDER

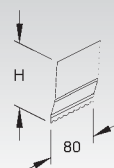
Splice Plate for Barrier Strip

model no.	height H	length A	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch		
E2 RTV 110 E2	97,5/3,8	80/3,1	251162	3

For positive locking connections and proper bonding of barrier strips.



61



Mounting Clamp for Barrier Strip

model no.	acc. incl.	EAN code	Weight per 100 pc. kg
G KLWC 16	FK 6x12, GSM 406	289707	2,4
F KLWC 16 F	FK 6x10 E3, GSM 406 E3	570508	5
E3 KLWC 16 E3	FK 6x10 E3, GSM 406 E3	341641	5

For attaching barrier strips to rungs (slot width 16 mm) of cable ladders.

Insertable at any position of the rail.



61



Extension Horizontal Tee

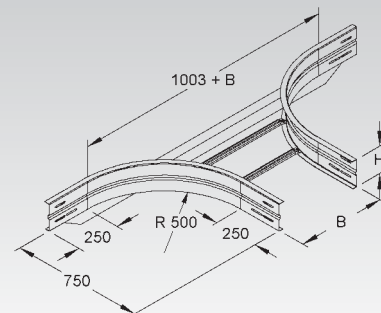
with rounded solid siderails and slotted rungs (slotwidth 16 mm)

model no.	height H	width B	acc. incl.	EAN code	Weight per 100 kg
	mm/Inch	mm/Inch			
S WSTAR 150.200	151,5/5,9	205/8	12 FLM 8x13 F	949632	1000,4
S WSTAR 150.300	151,5/5,9	305/11,9	12 FLM 8x13 F	949649	1037,3
S WSTAR 150.400	151,5/5,9	405/15,8	12 FLM 8x13 F	949656	1074
S WSTAR 150.500	151,5/5,9	505/19,7	12 FLM 8x13 F	949663	1114
S WSTAR 150.600	151,5/5,9	605/23,6	12 FLM 8x13 F	949670	1145,8
F WSTAR 150.200F	151,5/5,9	205/8	12 FLM 8x13 F	950560	1075,4
F WSTAR 150.300F	151,5/5,9	305/11,9	12 FLM 8x13 F	950577	1115,1
F WSTAR 150.400F	151,5/5,9	405/15,8	12 FLM 8x13 F	950584	1154,6
F WSTAR 150.500F	151,5/5,9	505/19,7	12 FLM 8x13 F	950591	1197,6
F WSTAR 150.600F	151,5/5,9	605/23,6	12 FLM 8x13 F	950607	1231,7

The radius of the fittings is such that cables can be installed according to DIN/VDE 0298, part 3 standard.



65



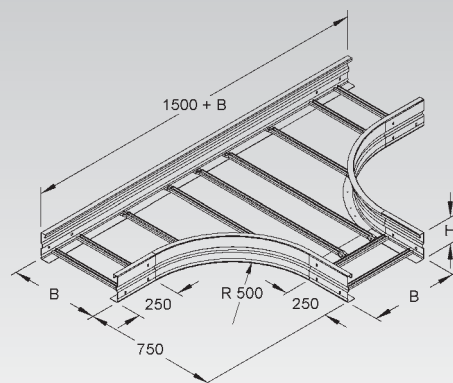
Horizontal Tee

with rounded solid siderails and slotted rungs (slotwidth 16 mm)

model no.	height H	width B	EAN code	Weight per 100 kg
	mm/Inch	mm/Inch		
S WSTR 150.200	150/5,8	200/7,8	949939	1534,8
S WSTR 150.300	150/5,8	300/11,7	949946	1644
S WSTR 150.400	150/5,8	400/15,6	949953	1807,6
S WSTR 150.500	150/5,8	500/19,5	949960	2003,5
S WSTR 150.600	150/5,8	600/23,4	949977	2131,8
F WSTR 150.200 F	150/5,8	200/7,8	950867	1649,9
F WSTR 150.300 F	150/5,8	300/11,7	950874	1767,3
F WSTR 150.400 F	150/5,8	400/15,6	950881	1943,2
F WSTR 150.500 F	150/5,8	500/19,5	950898	2153,8
F WSTR 150.600 F	150/5,8	600/23,4	950904	2291,7
E3 WSTR 150.200E3	150/5,8	200/7,8	951536	1534,8
E3 WSTR 150.300E3	150/5,8	300/11,7	951543	1644
E3 WSTR 150.400E3	150/5,8	400/15,6	951550	1807,6
E3 WSTR 150.500E3	150/5,8	500/19,5	951567	2003,5
E3 WSTR 150.600E3	150/5,8	600/23,4	951574	2131,8

The radius of the fittings is such that cables can be installed according to DIN/VDE 0298, part 3 standard.

The splice plates WSV 150.500 are not included. Please order separately.



Horizontal Elbow 90°

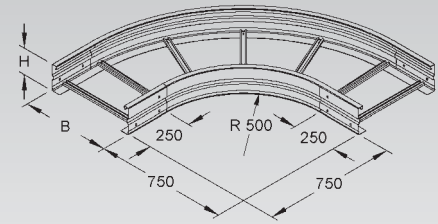
with rounded solid siderails and slotted rungs (slotwidth 16 mm)

model no.	height H mm/Inch	width B mm/Inch	EAN code	Weight per 100 kg
★ S WSBR 150.200	150/5,8	200/7,8	949786	960,4
★ S WSBR 150.300	150/5,8	300/11,7	949793	1053,4
★ S WSBR 150.400	150/5,8	400/15,6	949809	1175,9
★ S WSBR 150.500	150/5,8	500/19,5	949816	1272,5
★ S WSBR 150.600	150/5,8	600/23,4	949823	1372,8
★ F WSBR 150.200 F	150/5,8	200/7,8	950713	1032,4
★ F WSBR 150.300 F	150/5,8	300/11,7	950720	1132,4
★ F WSBR 150.400 F	150/5,8	400/15,6	950737	1264,1
★ F WSBR 150.500 F	150/5,8	500/19,5	950744	1367,9
★ F WSBR 150.600 F	150/5,8	600/23,4	950751	1475,8
★ E3 WSBR 150.200E3	150/5,8	200/7,8	951437	960,4
★ E3 WSBR 150.300E3	150/5,8	300/11,7	951444	1053,4
★ E3 WSBR 150.400E3	150/5,8	400/15,6	951451	1175,9
★ E3 WSBR 150.500E3	150/5,8	500/19,5	951468	1272,5
★ E3 WSBR 150.600E3	150/5,8	600/23,4	951475	1372,8

The radius of the fittings is such that cables can be installed according to DIN/VDE 0298, part 3 standard.

The splice plates WSV 150.500 are not included. Please order separately.

150

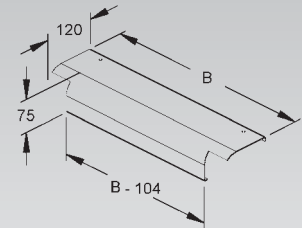


Ladder Drop Out

model no.	width B mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
S WLAB 200	190/7,4	2 FK 6x12, 2 GSM 406	899739	60
S WLAB 300	290/11,3	2 FK 6x12, 2 GSM 406	899746	90
S WLAB 400	390/15,2	2 FK 6x12, 2 GSM 406	899753	120
S WLAB 500	490/19,1	2 FK 6x12, 2 GSM 406	899760	150
S WLAB 600	590/23	2 FK 6x12, 2 GSM 406	899777	180
F WLAB 200 F	190/7,4	2 FK 6x10 E3, 2 GSM 406 E3	900220	60
F WLAB 300 F	290/11,3	2 FK 6x10 E3, 2 GSM 406 E3	900237	90
F WLAB 400 F	390/15,2	2 FK 6x10 E3, 2 GSM 406 E3	900244	120
F WLAB 500 F	490/19,1	2 FK 6x10 E3, 2 GSM 406 E3	900251	150
F WLAB 600 F	590/23	2 FK 6x10 E3, 2 GSM 406 E3	900268	180
E3 WLAB 200 E3	190/7,4	2 FK 6x10 E3, 2 GSM 406 E3	900015	60
E3 WLAB 300 E3	290/11,3	2 FK 6x10 E3, 2 GSM 406 E3	900022	90
E3 WLAB 400 E3	390/15,2	2 FK 6x10 E3, 2 GSM 406 E3	900039	120
E3 WLAB 500 E3	490/19,1	2 FK 6x10 E3, 2 GSM 406 E3	900046	150
E3 WLAB 600 E3	590/23	2 FK 6x10 E3, 2 GSM 406 E3	900053	180

with rounded edges to protect cables at the joint

For: long span cable ladders with C-rail rungs and a slot width of 16 mm



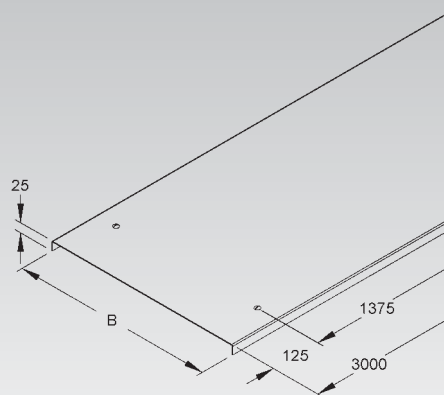
LONG SPAN CABLE LADDER ACCESSORIES

Cover for Long Span Cable Trays/Ladders

with turnbolt locks

model no.	width B mm/Inch	acc. incl.	EAN code	Weight per 100 m kg
S WDV 200	204/8	6 WDRS 20	309801	187
S WDV 300	304/11,9	6 WDRS 20	309900	264
S WDV 400	404/15,8	6 WDRS 20	310005	344
S WDV 500	504/19,7	6 WDRS 20	310104	424
S WDV 600	604/23,6	6 WDRS 20	310203	500
F WDV 200 F	204/8	6 WDRS 20 F	596003	187
F WDV 300 F	304/11,9	6 WDRS 20 F	596102	264
F WDV 400 F	404/15,8	6 WDRS 20 F	596201	344
F WDV 500 F	504/19,7	6 WDRS 20 F	596300	424
F WDV 600 F	604/23,6	6 WDRS 20 F	596409	500
E3 WDV 200 E3	204/8	6 WDRS 20 E3	806508	160
E3 WDV 300 E3	304/11,9	6 WDRS 20 E3	806522	250
E3 WDV 400 E3	404/15,8	6 WDRS 20 E3	806546	356
E3 WDV 500 E3	504/19,7	6 WDRS 20 E3	806560	423
E3 WDV 600 E3	604/23,6	6 WDRS 20 E3	806584	490

For outdoor service covers need to be secured against windloads using cover clamps or steel cable ties. Please use turnbolt lock WDRS 20 for extra needs.



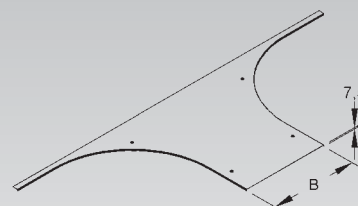
Cover for Horizontal Extension Tee

with turnbolt locks

model no.	inside dimension (B) mm/Inch	EAN code	Weight per 100 kg
S WTARDV 200	204/8	966707	267,8
S WTARDV 300	304/11,9	966714	328,3
S WTARDV 400	404/15,8	966721	389,5
S WTARDV 500	504/19,7	966738	450,6
S WTARDV 600	604/23,6	966745	511,8
F WTARDV 200 F	204/8	966752	283,9
F WTARDV 300 F	304/11,9	966769	348
F WTARDV 400 F	404/15,8	966776	412,9
F WTARDV 500 F	504/19,7	966783	477,6
F WTARDV 600 F	604/23,6	966790	542,5
E3 WTARDV 200 E3	204/8	966806	267,8
E3 WTARDV 300 E3	304/11,9	966813	328,3
E3 WTARDV 400 E3	404/15,8	966820	389,5
E3 WTARDV 500 E3	504/19,7	966837	450,6
E3 WTARDV 600 E3	604/23,6	966844	511,8

Turn-bolt locks for finish F and E3 are always made of stainless steel type E5.

For outdoor service covers need to be secured against windloads using cover clamps or steel cable ties.



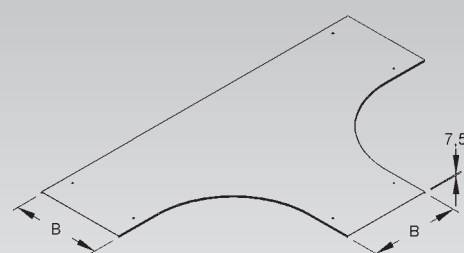
Cover for Horizontal Tee

with turnbolt locks

model no.	inside dimension (B) mm/Inch	EAN code	Weight per 100 kg
S WTRDV 200	204/8	966554	509,9
S WTRDV 300	304/11,9	966561	725,2
S WTRDV 400	404/15,8	966578	957,6
S WTRDV 500	504/19,7	966585	1205,8
S WTRDV 600	604/23,6	966592	1469,6
F WTRDV 200 F	204/8	966608	540,5
F WTRDV 300 F	304/11,9	966615	768,7
F WTRDV 400 F	404/15,8	966622	1015,1
F WTRDV 500 F	504/19,7	966639	1278,1
F WTRDV 600 F	604/23,6	966646	1557,8
E3 WTRDV 200 E3	204/8	966653	509,9
E3 WTRDV 300 E3	304/11,9	966660	725,2
E3 WTRDV 400 E3	404/15,8	966677	957,6
E3 WTRDV 500 E3	504/19,7	966684	1205,8
E3 WTRDV 600 E3	604/23,6	966691	1469,6

Turn-bolt locks for finish F and E3 are always made of stainless steel type E5.

For outdoor service covers need to be secured against windloads using cover clamps or steel cable ties.



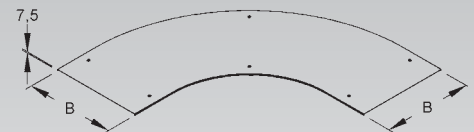
Cover for 90° Horizontal Elbow

with turnbolt locks

model no.	inside dimension (B) mm/Inch	EAN code	Weight per 100 kg
S WBRDV 200	204/8	966400	254,6
S WBRDV 300	304/11,9	966417	386,4
S WBRDV 400	404/15,8	966424	531,5
S WBRDV 500	504/19,7	966431	688,9
S WBRDV 600	604/23,6	966448	858,7
F WBRDV 200 F	204/8	966455	269,9
F WBRDV 300 F	304/11,9	966462	409,6
F WBRDV 400 F	404/15,8	966479	563,4
F WBRDV 500 F	504/19,7	966486	730,2
F WBRDV 600 F	604/23,6	966493	910,2
E3 WBRDV 200 E3	204/8	966509	254,6
E3 WBRDV 300 E3	304/11,9	966516	386,4
E3 WBRDV 400 E3	404/15,8	966523	531,5
E3 WBRDV 500 E3	504/19,7	966530	688,9
E3 WBRDV 600 E3	604/23,6	966547	858,7

Turn-bolt locks for finish F and E3 are always made of stainless steel type E5.

For outdoor service covers need to be secured against windloads using cover clamps or steel cable ties.

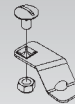


Turn-bolt Lock

model no.	acc. incl.	EAN code	Weight per 100 pc. kg
S WDRS 20	1 FLM 6x12, 1 SM 6	310609	3
F WDRS 20 F	1 FLM 6x12 E3, 1 US M 6 E3, 1 SM 6 E3	596508	3
E3 WDRS 20 E3	1 FLM 6x12 E3, 1 US M 6 E3, 1 SM 6 E3	809004	3

for field installation

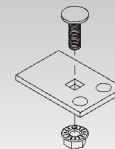
Turnbolt locks need to be installed at a minimum distance of 50 mm (2") from each end of the cover.



Mounting Clamp for Long Span Ladders

model no.	acc. incl.	EAN code	Weight per 100 pc. kg
F WSTB 2	1 FLM 8x25 F	305506	11,6
E3 WSTB 2 E3	1 SKM 8x25 E3	726424	5

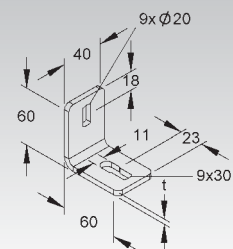
For: KTAS, KTASS, KTTS and KTTSS brackets



Two Hole Corner Angle

model no.	thick-ness t mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
F WWU 150/8	5	1 FLM 8x16 F	194506	21
E3 WWU 150/8 E3	4	1 FLM 8x16 E3	344307	21

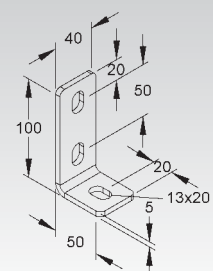
for floor-, ceiling- or wall-mount



Three Hole Corner Angle

model no.	thick-ness t mm/Inch	acc. incl.	EAN code	Weight per 100 pc. kg
F WWA 100	5	1 FLM 10x25 F	194759	30
E3 WWA 100 E3	4	1 FLM 10x25 E3	344345	19,4

for floor-, ceiling- or wall-mount



Surface Metal Raceway

 Surface Metal Raceways

 Fittings

 Accessoires



Niedax surface metal raceways are designed for routing low voltage power circuits, data network and control cables in commercial, institutional and industrial applications. The system consists of a base section with a snap-on cover, dividers and a wide range of fittings. It's easy to install, expand and reconfigure. Direct wall mount is permitted. Various finishes are available.



General

SCOPE

This specification covers a Surface Metal Raceway System used for power circuits and/or data network, voice, video and other low-voltage wiring. The Surface Metal Raceway System shall consist of straight sections, appropriate fittings and device brackets to complete installation per electrical drawings.

CLASSIFICATION AND USE

The Surface Metal Raceway System is to be utilized in dry interior locations as covered in Article 386 of the National Electrical Code and in Sections 12-1600 to 12-1614 of the Canadian Electrical Code. The NIEDAX Raceway System is listed by Underwriters Laboratories under File No. E230529 for the straight sections and for the fittings, with a UL designation in accordance with publication UL5 for Surface Metal Raceways, and a cUL designation in accordance with Canadian Standards Association publication C22.2 No. 62 for Surface Metal Raceways.

MATERIALS

The Raceway System is made of pre-galvanized steel, powder-coated pre-galvanized steel or stainless steel (304; 1.4301) with a minimum thickness of 0.040" [1.02mm]. (applies only to "x" version)

RACEWAY

The Raceway System is a two piece design with a base and a snap-on cover, which snap side by side on a common base. The base may be divided with a fixed barrier for up to 3 compartments depending on the raceways width.

FITTINGS

A complete line available including: 45° and 90° horizontal and vertical fittings, inside and outside elbows, splice plates, cable support clamps and end caps.

MECHANICAL SECURITY

The Raceway System shall be mechanically continuous and connected to all electrical outlets, boxes, device mounting brackets and cabinets.

ELECTRICAL SECURITY

The Surface Metal Raceway System shall be electrically continuous and bonded in accordance with the National Electric Code for proper grounding.

RACEWAY SUPPORT

The Raceway System should be securely supported at intervals not exceeding 1.2m (4 ft.).

COMPLETENESS

The Surface Metal Raceway System should be installed complete with appropriate fittings. All unused Raceway openings shall be closed.

Surface Metal Raceways are UL Listed for service as equipment grounding conductor under the latest **National Electrical Code**

Surface Metal Raceway

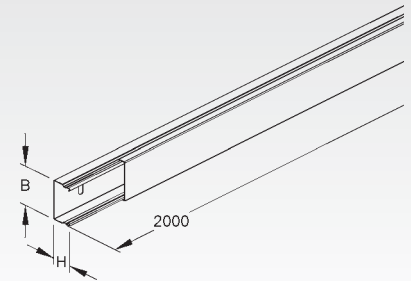
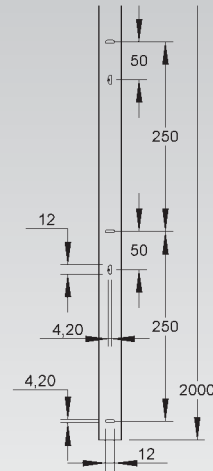
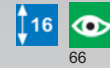
cover included

model no.	height H mm/Inch	width B mm/Inch	RAL colour	EAN code	Weight per 100 m kg
S LLK 16.016	16/0,6	16/0,6	—	506705	30
S LLK 16.030	16/0,6	30/1,2	—	506804	42,5
C LLK 16.016 R	16/0,6	16/0,6	9010	507559	30
C LLK 16.030 R	16/0,6	30/1,2	9010	507573	42,5
C LLK 16.016 W	16/0,6	16/0,6	9001	507009	30
C LLK 16.030 W	16/0,6	30/1,2	9001	507108	42,5
E3 LLK 16.016 E3	16/0,6	16/0,6	—	519828	15
E3 LLK 16.030 E3	16/0,6	30/1,2	—	519842	18

LS type raceway has to be grounded properly. Use boltless splice plate LST or LSTA to interconnect straight sections and fittings. The equipotential bonding of covers is guaranteed by the snap on mechanism.

Powder coating finish available in various colours.

Splice plates to be ordered separately.



SURFACE METAL RACEWAY

Surface Metal Raceway

cover included

model no.	height H mm/Inch	width B mm/Inch	RAL colour	EAN code	Weight per 100 m kg
S LLK 26.030	26/1	30/1,2	—	506903	52,5
C LLK 26.030 R	26/1	30/1,2	9010	507597	52,5
C LLK 26.030 W	26/1	30/1,2	9001	507207	52,5
E3 LLK 26.030 E3	26/1	30/1,2	—	519866	24

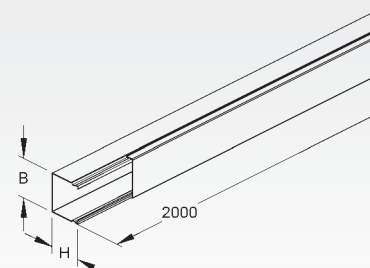
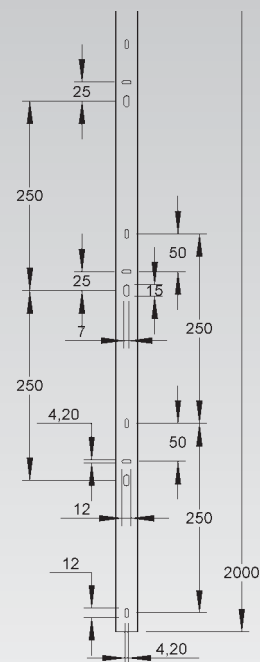
LS type raceway has to be grounded properly. Use boltless splice plate LST or LSTA to interconnect straight sections and fittings. The equipotential bonding of covers is guaranteed by the snap on mechanism.

Powder coating finish available in various colours.

Splice plates to be ordered separately.



66

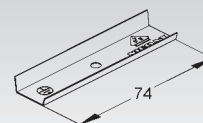


Splice Plate

model no.	width B mm/Inch	EAN code	Weight per 100 pc. kg
MS LST 16.016	74/2,9	516209	5
MS LST 16.030	74/2,9	516308	1
MS LST 26.030	74/2,9	516407	1,2

mechanical splice and electrical connector for raceways

For: Small Surface Metal Raceway



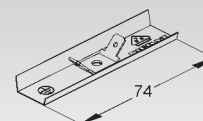
Splice Plate

with flat contact pin (6,3 mm) for protective grounding

model no.	width B mm/Inch	EAN code	Weight per 100 pc. kg
MS LSTA 16.016	74/2,9	516704	0,6
MS LSTA 16.030	74/2,9	516803	1,1
MS LSTA 26.030	74/2,9	516902	1,3

mechanical splice and electrical connector for raceways

For: Small Surface Metal Raceway



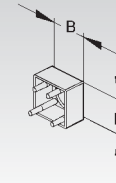
End-Cap

black

model no.	height H	width B	color	EAN code	Weight per 100 pc. kg
K04 LED 16.016	16/0,6	16/0,6	black	517725	2
K04 LED 16.030	16/0,6	30/1,2	black	517732	4
K04 LED 26.030	26/1	30/1,2	black	517749	4,5

For: Small Surface Metal Raceway

16 26



End-Protection Ring

dark grey

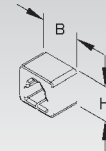
model no.	height H	width B	RAL colour	EAN code	Weight per 100 pc. kg
K04 LER 16.016	16/0,6	16/0,6	ähnl. 7021	887606	0,2
K04 LER 16.030	16/0,6	30/1,2	ähnl. 7021	887637	0,3
K04 LER 26.030	26/1	30/1,2	ähnl. 7021	887668	0,3

contains no silicone

For: Small Surface Metal Raceway

Can be attached to the raceway even after installation.

16 26



Surface Metal Raceway

with pre-drilled mounting holes in bottom, cover included

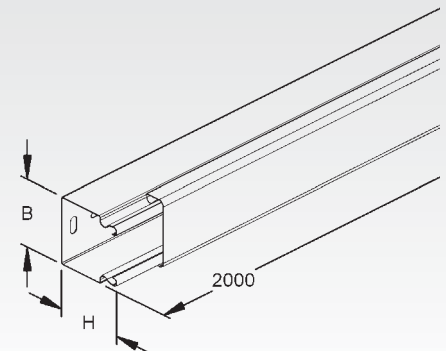
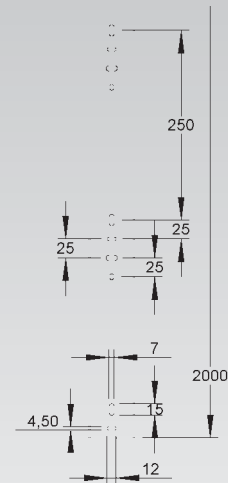
model no.	height H	width B	RAL colour	EAN code	Weight per 100 m kg
S LLK 40.040	40/1,6	40/1,6	—	508976	97,5
S LLK 40.060	40/1,6	60/2,3	—	509003	147
S LLK 60.060	60/2,3	60/2,3	—	509102	171
C LLK 40.040 R	40/1,6	40/1,6	9010	813605	97,5
C LLK 40.060 R	40/1,6	60/2,3	9010	509423	147
C LLK 60.060 R	60/2,3	60/2,3	9010	509430	171
C LLK 40.040 W	40/1,6	40/1,6	9001	509485	97,5
C LLK 40.060 W	40/1,6	60/2,3	9001	509508	147
C LLK 60.060 W	60/2,3	60/2,3	9001	509607	171
E3 LLK 40.040 E3	40/1,6	40/1,6	—	520268	80
E3 LLK 40.060 E3	40/1,6	60/2,3	—	520305	147
E3 LLK 60.060 E3	60/2,3	60/2,3	—	520404	171

LS type raceway has to be grounded properly. Use boltless splice plate LST or LSTA to interconnect straight sections and fittings. The equipotential bonding of covers is guaranteed by the snap on mechanism.

Powder coating finish available in various colours.

Splice plates to be ordered separately.

60 40



SURFACE METAL RACEWAY

Surface Metal Raceway

with pre-drilled mounting holes in bottom, cover included

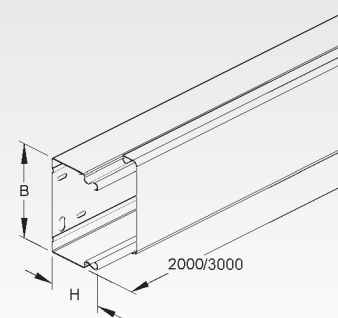
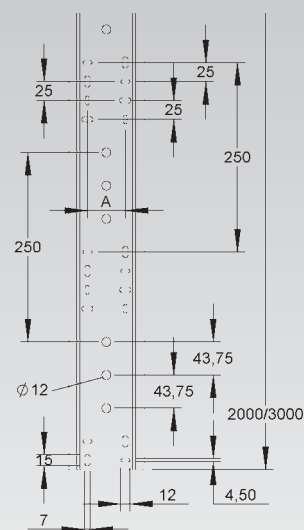
model no.	height H	width B	distance between drilling holes	RAL colour	EAN code	Weight per 100 m kg
	mm/Inch	mm/Inch	mm/Inch			
S LLK 60.100	60/2,3	100/3,9	50	—	509201	218
S LLK 60.150	60/2,3	150/5,8	100	—	509300	332
S LLK 60.200	60/2,3	200/7,8	150	—	509409	403
S LLK 80.080	80/3,1	80/3,1	30	—	789702	262
S LLK 100.100	100/3,9	100/3,9	50	—	789757	318
C LLK 60.100 R	60/2,3	100/3,9	50	9010	509447	218
C LLK 60.150 R	60/2,3	150/5,8	100	9010	509454	332
C LLK 60.200 R	60/2,3	200/7,8	150	9010	509461	403
C LLK 80.080 R	80/3,1	80/3,1	30	9010	813704	262
C LLK 100.100 R	100/3,9	100/3,9	50	9010	813759	318
C LLK 60.100 W	60/2,3	100/3,9	50	9001	509706	218
C LLK 60.150 W	60/2,3	150/5,8	100	9001	509805	332
C LLK 60.200 W	60/2,3	200/7,8	150	9001	509904	403
C LLK 80.080 W	80/3,1	80/3,1	30	9001	789801	262
C LLK 100.100 W	100/3,9	100/3,9	50	9001	789856	318
E3 LLK 60.100 E3	60/2,3	100/3,9	50	—	520503	218
E3 LLK 60.200 E3	60/2,3	200/7,8	150	—	520602	403
E3 LLK 80.080 E3	80/3,1	80/3,1	30	—	520626	262
E3 LLK 100.100 E3	100/3,9	100/3,9	50	—	520633	318

LS type raceway has to be grounded properly. Use boltless splice plate LST or LSTA to interconnect straight sections and fittings. The equipotential bonding of covers is guaranteed by the snap on mechanism.
centric punch hole (diameter 12 mm) in the bottom plate for E3 finish
no centric punch holes in the bottom plate for S or F finish

Powder coating finish available in various colours.

Splice plates to be ordered separately.

60 100 80



Surface Metal Raceway

solid bottom, including cover

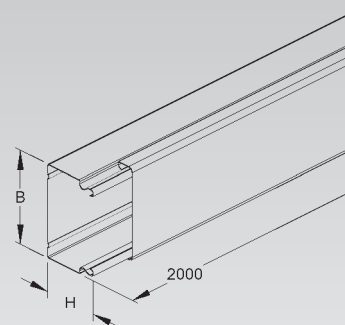
model no.	height H	width B	RAL colour	EAN code	Weight per 100 m kg
	mm/Inch	mm/Inch			
S LUK 40.040	40/1,6	40/1,6	—	508921	80
S LUK 40.060	40/1,6	60/2,3	—	700004	147
S LUK 60.060	60/2,3	60/2,3	—	700103	171
S LUK 60.100	60/2,3	100/3,9	—	700202	218
S LUK 60.150	60/2,3	150/5,8	—	700301	332
S LUK 60.200	60/2,3	200/7,8	—	700400	403
S LUK 80.080	80/3,1	80/3,1	—	508938	262
S LUK 100.100	100/3,9	100/3,9	—	508945	318
C LUK 40.040 W	40/1,6	40/1,6	9001	508952	80
C LUK 40.060 W	40/1,6	60/2,3	9001	700509	147
C LUK 60.060 W	60/2,3	60/2,3	9001	700608	171
C LUK 60.100 W	60/2,3	100/3,9	9001	700707	218
C LUK 60.150 W	60/2,3	150/5,8	9001	700806	332
C LUK 60.200 W	60/2,3	200/7,8	9001	700905	403
C LUK 80.080 W	80/3,1	80/3,1	9001	792801	262
C LUK 100.100 W	100/3,9	100/3,9	9001	508969	318
E3 LUK 40.040 E3	40/1,6	40/1,6	—	519880	80
E3 LUK 40.060 E3	40/1,6	60/2,3	—	519903	147
E3 LUK 60.060 E3	60/2,3	60/2,3	—	520008	171
E3 LUK 60.100 E3	60/2,3	100/3,9	—	520107	218
E3 LUK 60.200 E3	60/2,3	200/7,8	—	520206	403
E3 LUK 80.080 E3	80/3,1	80/3,1	—	520220	262

LS type raceway has to be grounded properly. Use boltless splice plate LST or LSTA to interconnect straight sections and fittings. The equipotential bonding of covers is guaranteed by the snap on mechanism.

Powder coating finish available in various colours.

Splice plates to be ordered separately.

60 40 100 80



Splice Plate

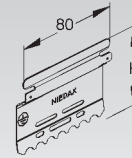
with flat contact pin (6,3 mm) for protective grounding

model no.	height H mm/Inch	EAN code	Weight per 100 pc. kg
S LST 40	40/1,6	516506	1,5
S LST 60	60/2,3	516605	1,7
S LST 80	80/3,1	516643	3,7
S LST 100	100/3,9	516667	4,6
E3 LST 40 E3	40/1,6	524006	0,8
E3 LST 60 E3	60/2,3	524105	0,9
E3 LST 80 E3	80/3,1	524129	3,9
E3 LST 100 E3	100/3,9	524143	4,9

mechanical splice and electrical connector for raceways

For: Surface Metal Raceway

60 40 100 80

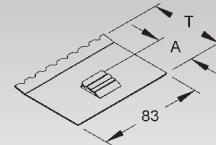


Mounting Plate for Barrier Strip

model no.	depth T mm/Inch	dist. A mm/Inch	EAN code	Weight per 100 pc. kg
S TPH 60	59	30	806003	3
S TPH 80	78	37	459278	3
E3 TPH 60 E3	59	30	840007	3,5
E3 TPH 80 E3	78	37	840052	4,5

For: Surface Metal Raceways

Equipotential bonding guaranteed after proper installation.



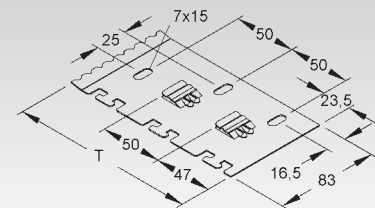
Mounting Plate for Barrier Strip

with strain relief

model no.	depth T mm/Inch	EAN code	Weight per 100 pc. kg
S LZTP 100	99	833009	5,5
S LZTP 150	149	833054	8,5
S LZTP 200	199	833108	11,5
E3 LZTP 100 E3	99	840403	6,5
E3 LZTP 200 E3	199	840458	12,5

For: Surface Metal Raceways

Equipotential bonding guaranteed after proper installation.



Barrier Strip

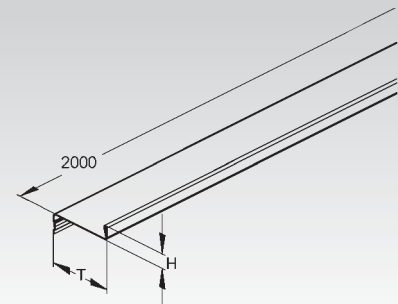
model no.	height H mm/Inch	depth T mm/Inch	EAN code	Weight per 100 m kg
S TPS 30	11/0,4	30	459223	50
S TPS 50	11/0,4	50	459247	78
S TPS 70	11/0,4	70	459261	80
S TPS 90	11/0,4	90	720309	79
E3 TPS 50 E3	11/0,4	50	459216	50
E3 TPS 90 E3	11/0,4	90	865406	79

to separate wires and cables of different voltage levels or with different functions

For: Surface Metal Raceway

Equipotential bonding guaranteed after proper installation.

50 30 70 90



SURFACE METAL RACEWAY

Outside Elbow 45°

cover included

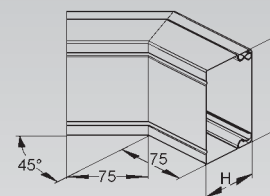
model no.	height H	width B	RAL colour	EAN code	Weight per 100 pc. kg
mm/Inch	mm/Inch				
S LUAB 40.040	40/1,6	40/1,6	—	790609	14
S LUAB 40.060	40/1,6	60/2,3	—	512706	39
S LUAB 60.060	60/2,3	60/2,3	—	512805	42
S LUAB 60.100	60/2,3	100/3,9	—	512904	48
S LUAB 60.150	60/2,3	150/5,8	—	513000	59
S LUAB 60.200	60/2,3	200/7,8	—	513109	72
S LUAB 80.080	80/3,1	80/3,1	—	790708	48
S LUAB 100.100	100/3,9	100/3,9	—	790753	61
C LUAB 40.040 W	40/1,6	40/1,6	9001	790807	14
C LUAB 40.060 W	40/1,6	60/2,3	9001	513116	39
C LUAB 60.060 W	60/2,3	60/2,3	9001	513130	42
C LUAB 60.100 W	60/2,3	100/3,9	9001	513154	48
C LUAB 60.150 W	60/2,3	150/5,8	9001	513178	59
C LUAB 60.200 W	60/2,3	200/7,8	9001	513192	72
C LUAB 80.080 W	80/3,1	80/3,1	9001	790906	48
C LUAB 100.100 W	100/3,9	100/3,9	9001	790951	61
E3 LUAB 40.040 E3	40/1,6	40/1,6	—	521968	19
E3 LUAB 40.060 E3	40/1,6	60/2,3	—	522002	39
E3 LUAB 60.060 E3	60/2,3	60/2,3	—	522101	42
E3 LUAB 60.100 E3	60/2,3	100/3,9	—	522200	48
E3 LUAB 60.200 E3	60/2,3	200/7,8	—	522309	72
E3 LUAB 80.080 E3	80/3,1	80/3,1	—	522323	46
E3 LUAB 100.100E3	100/3,9	100/3,9	—	522347	57

For: Surface Metal Raceway

LS type raceway has to be grounded properly. Use boltless splice plate LST or LSTA to interconnect straight sections and fittings. The equipotential bonding of covers is guaranteed by the snap on mechanism.

Splice plates to be ordered separately.

60 40 100 80



Inside Elbow 45°

cover included

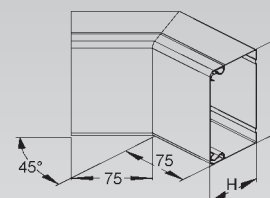
model no.	height H	width B	RAL colour	EAN code	Weight per 100 pc. kg
mm/Inch	mm/Inch				
S LUIB 40.040	40/1,6	40/1,6	—	790203	14
S LUIB 40.060	40/1,6	60/2,3	—	512201	34
S LUIB 60.060	60/2,3	60/2,3	—	512300	36
S LUIB 60.100	60/2,3	100/3,9	—	512409	46
S LUIB 60.150	60/2,3	150/5,8	—	512508	58
S LUIB 60.200	60/2,3	200/7,8	—	512607	71
S LUIB 80.080	80/3,1	80/3,1	—	790302	48
S LUIB 100.100	100/3,9	100/3,9	—	790357	61
C LUIB 40.040 W	40/1,6	40/1,6	9001	790401	14
C LUIB 40.060 W	40/1,6	60/2,3	9001	512614	34
C LUIB 60.060 W	60/2,3	60/2,3	9001	512638	36
C LUIB 60.100 W	60/2,3	100/3,9	9001	512652	46
C LUIB 60.150 W	60/2,3	150/5,8	9001	512676	58
C LUIB 60.200 W	60/2,3	200/7,8	9001	512690	71
C LUIB 80.080 W	80/3,1	80/3,1	9001	790500	48
C LUIB 100.100 W	100/3,9	100/3,9	9001	790555	61
E3 LUIB 40.040 E3	40/1,6	40/1,6	—	521562	14
E3 LUIB 40.060 E3	40/1,6	60/2,3	—	521609	34
E3 LUIB 60.060 E3	60/2,3	60/2,3	—	521708	36
E3 LUIB 60.100 E3	60/2,3	100/3,9	—	521807	46
E3 LUIB 60.200 E3	60/2,3	200/7,8	—	521906	71
E3 LUIB 80.080 E3	80/3,1	80/3,1	—	521920	45
E3 LUIB 100.100E3	100/3,9	100/3,9	—	521944	56

For: Surface Metal Raceway

LS type raceway has to be grounded properly. Use boltless splice plate LST or LSTA to interconnect straight sections and fittings. The equipotential bonding of covers is guaranteed by the snap on mechanism.

Splice plates to be ordered separately.

60 40 100 80



Elbow 45°

cover included

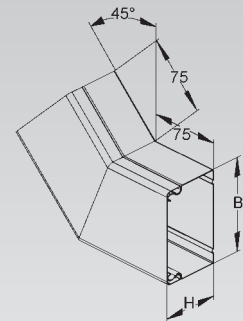
model no.	height H mm/Inch	width B mm/Inch	RAL colour	EAN code	Weight per 100 pc. kg
S LUWB 40.040	40/1,6	40/1,6	—	511648	14
S LUWB 40.060	40/1,6	60/2,3	—	511709	36
S LUWB 60.060	60/2,3	60/2,3	—	511808	38
S LUWB 60.100	60/2,3	100/3,9	—	511907	49
S LUWB 60.150	60/2,3	150/5,8	—	512003	66
S LUWB 60.200	60/2,3	200/7,8	—	512102	85
S LUWB 80.080	80/3,1	80/3,1	—	789900	48
S LUWB 100.100	100/3,9	100/3,9	—	789955	61
C LUWB 40.040 W	40/1,6	40/1,6	9001	790005	14
C LUWB 40.060 W	40/1,6	60/2,3	9001	512119	36
C LUWB 60.060 W	60/2,3	60/2,3	9001	512133	38
C LUWB 60.100 W	60/2,3	100/3,9	9001	512157	49
C LUWB 60.150 W	60/2,3	150/5,8	9001	512171	66
C LUWB 60.200 W	60/2,3	200/7,8	9001	512195	85
C LUWB 80.080 W	80/3,1	80/3,1	9001	790104	48
C LUWB 100.100 W	100/3,9	100/3,9	9001	790159	61
E3 LUWB 40.040 E3	40/1,6	40/1,6	—	521142	14
E3 LUWB 40.060 E3	40/1,6	60/2,3	—	521203	36
E3 LUWB 60.060 E3	60/2,3	60/2,3	—	521302	38
E3 LUWB 60.100 E3	60/2,3	100/3,9	—	521401	49
E3 LUWB 60.200 E3	60/2,3	200/7,8	—	521500	85
E3 LUWB 80.080 E3	80/3,1	80/3,1	—	521524	45
E3 LUWB 100.100 E3	100/3,9	100/3,9	—	521548	56

For: Surface Metal Raceway

LS type raceway has to be grounded properly. Use boltless splice plate LST or LSTA to interconnect straight sections and fittings. The equipotential bonding of covers is guaranteed by the snap on mechanism.

Splice plates to be ordered separately.

60 40 100 80



Outside Elbow 90°

cover included

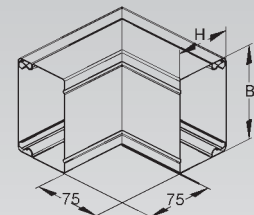
model no.	height H mm/Inch	width B mm/Inch	RAL colour	EAN code	Weight per 100 pc. kg
S LUAC 40.040	40/1,6	40/1,6	—	791804	16
S LUAC 40.060	40/1,6	60/2,3	—	514205	50
S LUAC 60.060	60/2,3	60/2,3	—	514304	53
S LUAC 60.100	60/2,3	100/3,9	—	514403	60
S LUAC 60.150	60/2,3	150/5,8	—	514502	74
S LUAC 60.200	60/2,3	200/7,8	—	514601	90
S LUAC 80.080	80/3,1	80/3,1	—	791903	60,5
S LUAC 100.100	100/3,9	100/3,9	—	791958	95,5
C LUAC 40.040 W	40/1,6	40/1,6	9001	792009	16
C LUAC 40.060 W	40/1,6	60/2,3	9001	514618	50
C LUAC 60.060 W	60/2,3	60/2,3	9001	514632	53
C LUAC 60.100 W	60/2,3	100/3,9	9001	514656	60
C LUAC 60.150 W	60/2,3	150/5,8	9001	514670	74
C LUAC 60.200 W	60/2,3	200/7,8	9001	514694	90
C LUAC 80.080 W	80/3,1	80/3,1	9001	792108	60,5
C LUAC 100.100 W	100/3,9	100/3,9	9001	792153	95,5
E3 LUAC 40.040 E3	40/1,6	40/1,6	—	523160	16
E3 LUAC 40.060 E3	40/1,6	60/2,3	—	523207	50
E3 LUAC 60.060 E3	60/2,3	60/2,3	—	523306	53
E3 LUAC 60.100 E3	60/2,3	100/3,9	—	523405	60
E3 LUAC 60.200 E3	60/2,3	200/7,8	—	523504	90
E3 LUAC 80.080 E3	80/3,1	80/3,1	—	523542	65
E3 LUAC 100.100 E3	100/3,9	100/3,9	—	523566	98

For: Surface Metal Raceway

LS type raceway has to be grounded properly. Use boltless splice plate LST or LSTA to interconnect straight sections and fittings. The equipotential bonding of covers is guaranteed by the snap on mechanism.

Splice plates to be ordered separately.

60 40 100 80



SURFACE METAL RACEWAY

Outside Elbow (2 x 45°)

solid bottom, including cover

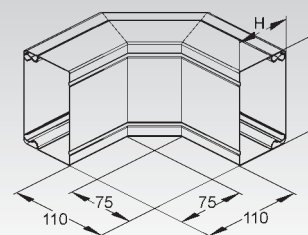
model no.	height H	width B	EAN code	Weight per 100 pc. kg
mm/Inch	mm/Inch			
E3 LUAD 60.060 E3	60/2,3	60/2,3	732708	63
E3 LUAD 60.100 E3	60/2,3	100/3,9	732807	72
E3 LUAD 60.200 E3	60/2,3	200/7,8	732906	108

For: Surface Metal Raceway

LS type raceway has to be grounded properly. Use boltless splice plate LST or LSTA to interconnect straight sections and fittings. The equipotential bonding of covers is guaranteed by the snap on mechanism.

Splice plates to be ordered separately.

60



Outside Elbow Building Block

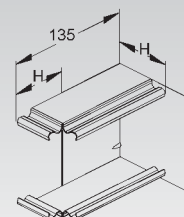
model no.	height H	width B	RAL colour	EAN code	Weight per 100 pc. kg
mm/Inch	mm/Inch				
S LUAE 60.060	60/2,3	60/2,3	—	766901	18
S LUAE 60.100	60/2,3	100/3,9	—	767007	20,3
S LUAE 60.150	60/2,3	150/5,8	—	767106	23,5
S LUAE 60.200	60/2,3	200/7,8	—	767205	27
C LUAE 60.060 W	60/2,3	60/2,3	9001	767304	18
C LUAE 60.100 W	60/2,3	100/3,9	9001	767403	20,3
C LUAE 60.150 W	60/2,3	150/5,8	9001	767502	23,5
C LUAE 60.200 W	60/2,3	200/7,8	9001	767601	27

For: Surface Metal Raceway

LS type raceway has to be grounded properly. Use boltless splice plate LST or LSTA to interconnect straight sections and fittings. The equipotential bonding of covers is guaranteed by the snap on mechanism.

Splice plates to be ordered separately.

60



Inside Elbow 90°

cover included

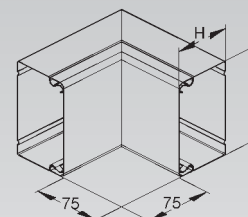
model no.	height H	width B	RAL colour	EAN code	Weight per 100 pc. kg
mm/Inch	mm/Inch				
S LUIC 40.040	40/1,6	40/1,6	—	791408	41
S LUIC 40.060	40/1,6	60/2,3	—	513703	43
S LUIC 60.060	60/2,3	60/2,3	—	513802	45
S LUIC 60.100	60/2,3	100/3,9	—	513901	58
S LUIC 60.150	60/2,3	150/5,8	—	514007	73
S LUIC 60.200	60/2,3	200/7,8	—	514106	89
S LUIC 80.080	80/3,1	80/3,1	—	791507	54
S LUIC 100.100	100/3,9	100/3,9	—	791552	86,5
C LUIC 40.040 W	40/1,6	40/1,6	9001	791606	41
C LUIC 40.060 W	40/1,6	60/2,3	9001	514113	43
C LUIC 60.060 W	60/2,3	60/2,3	9001	514137	45
C LUIC 60.100 W	60/2,3	100/3,9	9001	514151	58
C LUIC 60.150 W	60/2,3	150/5,8	9001	514175	73
C LUIC 60.200 W	60/2,3	200/7,8	9001	514199	89
C LUIC 80.080 W	80/3,1	80/3,1	9001	791705	54
C LUIC 100.100 W	100/3,9	100/3,9	9001	791750	86,5
E3 LUIC 40.040 E3	40/1,6	40/1,6	—	522781	19
E3 LUIC 40.060 E3	40/1,6	60/2,3	—	522804	43
E3 LUIC 60.060 E3	60/2,3	60/2,3	—	522903	45
E3 LUIC 60.100 E3	60/2,3	100/3,9	—	523009	58
E3 LUIC 60.200 E3	60/2,3	200/7,8	—	523108	89
E3 LUIC 80.080 E3	80/3,1	80/3,1	—	523122	58
E3 LUIC 100.100 E3	100/3,9	100/3,9	—	523146	74

For: Surface Metal Raceway

LS type raceway has to be grounded properly. Use boltless splice plate LST or LSTA to interconnect straight sections and fittings. The equipotential bonding of covers is guaranteed by the snap on mechanism.

Splice plates to be ordered separately.

60 40 100 80



Inside Elbow (2 x 45°)

solid bottom, including cover

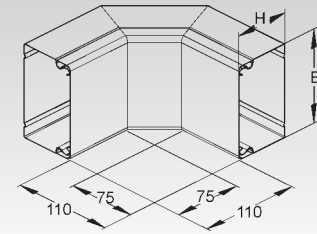
model no.	height H	width B	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch		
E3 LUID 60.060 E3	60/2,3	60/2,3	732401	54
E3 LUID 60.100 E3	60/2,3	100/3,9	732500	69
E3 LUID 60.200 E3	60/2,3	200/7,8	732609	107

For: Surface Metal Raceway

LS type raceway has to be grounded properly. Use boltless splice plate LST or LSTA to interconnect straight sections and fittings. The equipotential bonding of covers is guaranteed by the snap on mechanism.

Splice plates to be ordered separately.

60



Inside Elbow Building Block

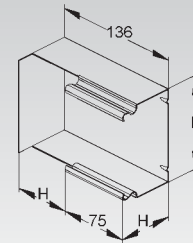
model no.	height H	width B	RAL colour	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch			
S LUIE 60.060	60/2,3	60/2,3	—	766109	19
S LUIE 60.100	60/2,3	100/3,9	—	766208	25,3
S LUIE 60.150	60/2,3	150/5,8	—	766307	33
S LUIE 60.200	60/2,3	200/7,8	—	766406	41
C LUIE 60.060 W	60/2,3	60/2,3	9001	766505	19
C LUIE 60.100 W	60/2,3	100/3,9	9001	766604	25,3
C LUIE 60.150 W	60/2,3	150/5,8	9001	766703	33
C LUIE 60.200 W	60/2,3	200/7,8	9001	766802	41

For: Surface Metal Raceway

LS type raceway has to be grounded properly. Use boltless splice plate LST or LSTA to interconnect straight sections and fittings. The equipotential bonding of covers is guaranteed by the snap on mechanism.

Splice plates to be ordered separately.

60



Elbow 90°

cover included

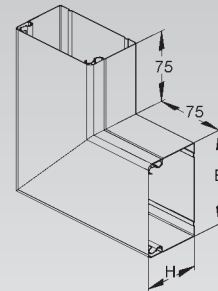
model no.	height H	width B	RAL colour	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch			
S LUWC 40.040	40/1,6	40/1,6	—	791002	43
S LUWC 40.060	40/1,6	60/2,3	—	513208	45
S LUWC 60.060	60/2,3	60/2,3	—	513307	47
S LUWC 60.100	60/2,3	100/3,9	—	513406	61
S LUWC 60.150	60/2,3	150/5,8	—	513505	83
S LUWC 60.200	60/2,3	200/7,8	—	513604	107
S LUWC 80.080	80/3,1	80/3,1	—	791101	58,5
S LUWC 100.100	100/3,9	100/3,9	—	791156	91,5
C LUWC 40.040 W	40/1,6	40/1,6	9001	791200	43
C LUWC 40.060 W	40/1,6	60/2,3	9001	513611	45
C LUWC 60.060 W	60/2,3	60/2,3	9001	513635	47
C LUWC 60.100 W	60/2,3	100/3,9	9001	513659	61
C LUWC 60.150 W	60/2,3	150/5,8	9001	513673	83
C LUWC 60.200 W	60/2,3	200/7,8	9001	513697	107
C LUWC 80.080 W	80/3,1	80/3,1	9001	791309	58,5
C LUWC 100.100 W	100/3,9	100/3,9	9001	791354	91,5
E3 LUWC 40.040 E3	40/1,6	40/1,6	—	522361	16
E3 LUWC 40.060 E3	40/1,6	60/2,3	—	522408	45
E3 LUWC 60.060 E3	60/2,3	60/2,3	—	522507	47
E3 LUWC 60.100 E3	60/2,3	100/3,9	—	522606	61
E3 LUWC 60.200 E3	60/2,3	200/7,8	—	522705	107
E3 LUWC 80.080 E3	80/3,1	80/3,1	—	522743	62,5
E3 LUWC 100.100 E3	100/3,9	100/3,9	—	522767	83

For: Surface Metal Raceway

LS type raceway has to be grounded properly. Use boltless splice plate LST or LSTA to interconnect straight sections and fittings. The equipotential bonding of covers is guaranteed by the snap on mechanism.

Splice plates to be ordered separately.

60 40 100 80



SURFACE METAL RACEWAY

Elbow (2 x 45°)

solid bottom, including cover

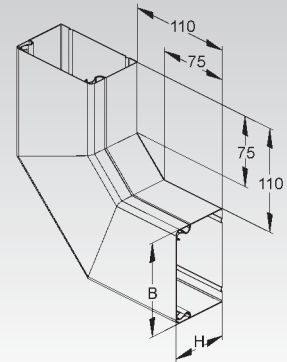
model no.	height H	width B	EAN code	Weight per 100 pc. kg
mm/Inch	mm/Inch			
E3 LUWD 60.060 E3	60/2,3	60/2,3	732104	57
E3 LUWD 60.100 E3	60/2,3	100/3,9	732203	74
E3 LUWD 60.200 E3	60/2,3	200/7,8	732302	128

For: Surface Metal Raceway

LS type raceway has to be grounded properly. Use boltless splice plate LST or LSTA to interconnect straight sections and fittings. The equipotential bonding of covers is guaranteed by the snap on mechanism.

Splice plates to be ordered separately.

60



Elbow Building Block

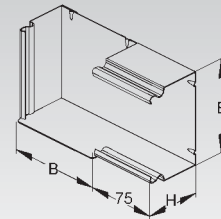
model no.	height H	width B	RAL colour	EAN code	Weight per 100 pc. kg
mm/Inch	mm/Inch				
S LUWE 60.060	60/2,3	60/2,3	—	767700	20
S LUWE 60.100	60/2,3	100/3,9	—	767809	32
S LUWE 60.150	60/2,3	150/5,8	—	767908	51
S LUWE 60.200	60/2,3	200/7,8	—	768004	72
C LUWE 60.060 W	60/2,3	60/2,3	9001	768103	20
C LUWE 60.100 W	60/2,3	100/3,9	9001	768202	32
C LUWE 60.200 W	60/2,3	200/7,8	9001	768400	72

For: Surface Metal Raceway

LS type raceway has to be grounded properly. Use boltless splice plate LST or LSTA to interconnect straight sections and fittings. The equipotential bonding of covers is guaranteed by the snap on mechanism.

Splice plates to be ordered separately.

60



Wide Radius Tee

cover included

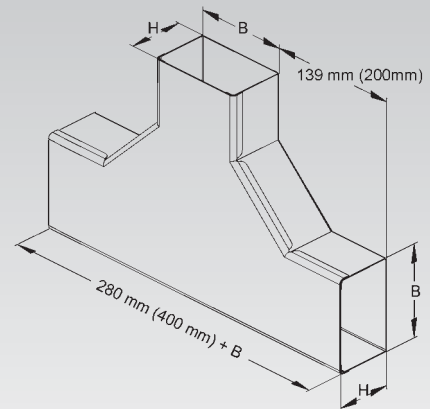
model no.	height H	width B	RAL colour	EAN code	Weight per 100 pc. kg
mm/Inch	mm/Inch				
S LUTC 40.060	40/1,6	60/2,3	—	514700	89
S LUTC 60.060	60/2,3	60/2,3	—	514809	60
S LUTC 60.100	60/2,3	100/3,9	—	514908	80
S LUTC 60.150	60/2,3	150/5,8	—	515004	100
S LUTC 60.200	60/2,3	200/7,8	—	515103	130
S LUTC 80.080	80/3,1	80/3,1	—	799800	90
S LUTC 100.100	100/3,9	100/3,9	—	799855	120
C LUTC 40.060 W	40/1,6	60/2,3	9001	515110	89
C LUTC 60.060 W	60/2,3	60/2,3	9001	515134	60
C LUTC 60.100 W	60/2,3	100/3,9	9001	515158	80
C LUTC 60.150 W	60/2,3	150/5,8	9001	515172	100
C LUTC 60.200 W	60/2,3	200/7,8	9001	515196	130
C LUTC 80.080 W	80/3,1	80/3,1	9001	813858	90
C LUTC 100.100 W	100/3,9	100/3,9	9001	813902	120
E3 LUTC 40.060 E3	40/1,6	60/2,3	—	523603	90
E3 LUTC 60.060 E3	60/2,3	60/2,3	—	523702	60
E3 LUTC 60.100 E3	60/2,3	100/3,9	—	523801	80
E3 LUTC 80.080 E3	80/3,1	80/3,1	—	798704	80
E3 LUTC 100.100E3	100/3,9	100/3,9	—	798728	110

For: Surface Metal Raceway

LS type raceway has to be grounded properly. Use boltless splice plate LST or LSTA to interconnect straight sections and fittings. The equipotential bonding of covers is guaranteed by the snap on mechanism.

Splice plates to be ordered separately.

60 40 100 80



Tee

cover included

	model no.	height H mm/Inch	width B mm/Inch	width of exit A mm/Inch	RAL colour	EAN code	Weight per 100 pc. kg
S	LUT 4.4.4	40/1,6	40/1,6	40	—	792207	27
S	LUT 4.6.4	40/1,6	60/2,3	40	—	792252	27
S	LUT 6.6.6	60/2,3	60/2,3	60	—	515202	43
S	LUT 6.10.6	60/2,3	100/3,9	60	—	515301	52
S	LUT 6.10.10	60/2,3	100/3,9	100	—	515400	52
S	LUT 6.15.6	60/2,3	150/5,8	60	—	515509	74
S	LUT 6.15.10	60/2,3	150/5,8	100	—	515608	74
S	LUT 6.15.15	60/2,3	150/5,8	150	—	515707	74
S	LUT 6.20.6	60/2,3	200/7,8	60	—	515806	87
S	LUT 6.20.10	60/2,3	200/7,8	100	—	515905	87
S	LUT 6.20.15	60/2,3	200/7,8	150	—	516001	87
S	LUT 6.20.20	60/2,3	200/7,8	200	—	516100	87
S	LUT 8.8.8	80/3,1	80/3,1	80	—	792306	65
S	LUT 10.10.10	100/3,9	100/3,9	100	—	792351	80
C	LUT 4.4.4 W	40/1,6	40/1,6	40	9001	792405	27
C	LUT 4.6.4 W	40/1,6	60/2,3	40	9001	792450	30
C	LUT 6.6.6 W	60/2,3	60/2,3	60	9001	709205	43
C	LUT 6.10.6 W	60/2,3	100/3,9	60	9001	516117	52
C	LUT 6.10.10 W	60/2,3	100/3,9	100	9001	709304	52
C	LUT 6.15.6 W	60/2,3	150/5,8	60	9001	516124	74
C	LUT 6.15.10 W	60/2,3	150/5,8	100	9001	516131	74
C	LUT 6.15.15 W	60/2,3	150/5,8	150	9001	709403	74
C	LUT 6.20.6 W	60/2,3	200/7,8	60	9001	516148	87
C	LUT 6.20.10 W	60/2,3	200/7,8	100	9001	516155	87
C	LUT 6.20.15 W	60/2,3	200/7,8	150	9001	516162	87
C	LUT 6.20.20 W	60/2,3	200/7,8	200	9001	709502	87
C	LUT 8.8.8 W	80/3,1	80/3,1	80	9001	516186	65
C	LUT 10.10.10 W	100/3,9	100/3,9	100	9001	516193	81
E3	LUT 4.4.4 E3	40/1,6	40/1,6	40	—	523924	27
E3	LUT 4.6.4 E3	40/1,6	60/2,3	40	—	523948	27
E3	LUT 6.6.6 E3	60/2,3	60/2,3	60	—	798803	43
E3	LUT 6.10.6 E3	60/2,3	100/3,9	60	—	798810	52
E3	LUT 6.10.10 E3	60/2,3	100/3,9	100	—	798827	52
E3	LUT 6.20.6 E3	60/2,3	200/7,8	60	—	798834	87
E3	LUT 6.20.10 E3	60/2,3	200/7,8	100	—	798841	87
E3	LUT 6.20.20 E3	60/2,3	200/7,8	200	—	798858	87
E3	LUT 8.8.8 E3	80/3,1	80/3,1	80	—	523962	65
E3	LUT 10.10.10 E3	100/3,9	100/3,9	100	—	523986	80

H x B = Height x width of the principal direction

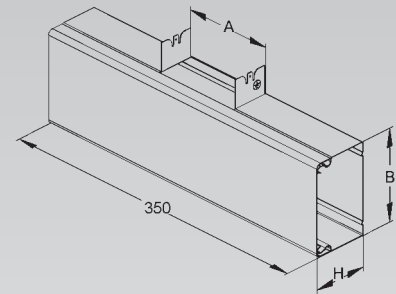
A = Width of the outlet (height as at the principal direction)

For: Surface Metal Raceway

LS type raceway has to be grounded properly. Use boltless splice plate LST or LSTA to interconnect straight sections and fittings. The equipotential bonding of covers is guaranteed by the snap on mechanism.

Splice plates to be ordered separately.

60 40 100 80



SURFACE METAL RACEWAY

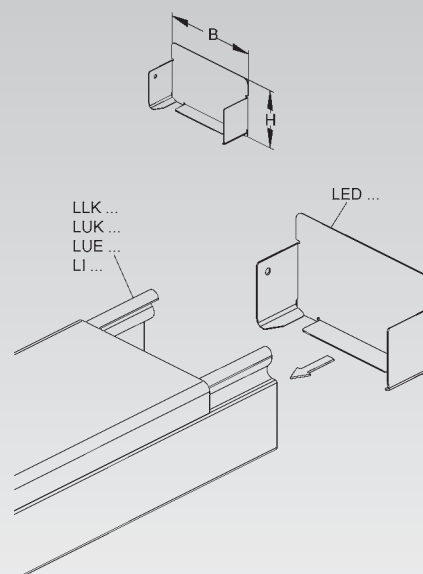
End-Cap

model no.	height H	width B	RAL colour	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch			
S LED 40.040	40/1,6	40/1,6	—	517763	1,7
S LED 40.060	40/1,6	60/2,3	—	517800	2,5
S LED 60.060	60/2,3	60/2,3	—	517909	4
S LED 60.100	60/2,3	100/3,9	—	518005	6
S LED 60.150	60/2,3	150/5,8	—	518104	8
S LED 60.200	60/2,3	200/7,8	—	518203	10
S LED 80.080	80/3,1	80/3,1	—	792504	7
S LED 100.100	100/3,9	100/3,9	—	792559	10
C LED 40.040 R	40/1,6	40/1,6	9010	832804	1,7
C LED 40.040 W	40/1,6	40/1,6	9001	792603	1,7
C LED 40.060 R	40/1,6	60/2,3	9010	832835	2,5
C LED 40.060 W	40/1,6	60/2,3	9001	708208	2,5
C LED 60.060 R	60/2,3	60/2,3	9010	832866	4
C LED 60.060 W	60/2,3	60/2,3	9001	708307	4
C LED 60.100 R	60/2,3	100/3,9	9010	832897	6
C LED 60.100 W	60/2,3	100/3,9	9001	708406	6
C LED 60.150 R	60/2,3	150/5,8	9010	832927	8
C LED 60.150 W	60/2,3	150/5,8	9001	708505	8
C LED 60.200 R	60/2,3	200/7,8	9010	832958	10
C LED 60.200 W	60/2,3	200/7,8	9001	708604	10
C LED 80.080 R	80/3,1	80/3,1	9010	832972	7
C LED 80.080 W	80/3,1	80/3,1	9001	792658	7
C LED 100.100 R	100/3,9	100/3,9	9010	832996	10
C LED 100.100 W	100/3,9	100/3,9	9001	792702	10
E3 LED 40.040 E3	40/1,6	40/1,6	—	524167	1,7
E3 LED 40.060 E3	40/1,6	60/2,3	—	524204	2,5
E3 LED 60.060 E3	60/2,3	60/2,3	—	524303	4
E3 LED 60.100 E3	60/2,3	100/3,9	—	524402	6
E3 LED 60.200 E3	60/2,3	200/7,8	—	524501	10
E3 LED 80.080 E3	80/3,1	80/3,1	—	524549	7
E3 LED 100.100 E3	100/3,9	100/3,9	—	524563	10

For: Surface Metal Raceway

Equipotential bonding guaranteed after proper installation.

60 40 100 80



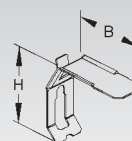
Cable Support Clamp

model no.	height H	width B	EAN code	Weight per 100 pc. kg
	mm/Inch	mm/Inch		
E2 LHS 60.100 E2	60/2,3	55/2,1	517206	2,4
E2 LHS 60.150 E2	60/2,3	105/4,1	517305	3,3
E2 LHS 60.200 E2	60/2,3	155/6	517404	4,3
E2 LHS 80.080 E2	80/3,1	35/1,4	517442	2,4
E2 LHS 100.100 E2	100/3,9	55/2,1	517466	3,4

to easy installation of cables

For: Surface Metal Raceway

60 100 80



End-Protection Ring

dark grey

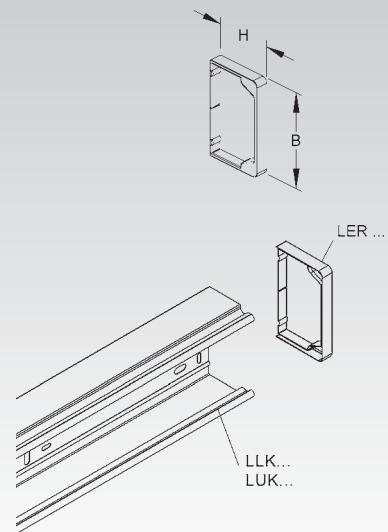
model no.	height H mm/Inch	width B mm/Inch	RAL colour	EAN code	Weight per 100 pc. kg
K04 LER 40.040	40/1,6	40/1,6	ähnl. 7021	865109	0,5
K04 LER 40.060	40/1,6	60/2,3	ähnl. 7021	865154	0,5
K04 LER 60.060	60/2,3	60/2,3	ähnl. 7021	865208	0,6
K04 LER 60.100	60/2,3	100/3,9	ähnl. 7021	865253	0,8
K04 LER 80.080	80/3,1	80/3,1	ähnl. 7021	887705	1,5
K04 LER 100.100	100/3,9	100/3,9	ähnl. 7021	887750	1,7

contains no silicone

For: Surface Metal Raceway

Can be attached to the raceway even after installation.

60 40 100 80



End-Protection Ring

black

model no.	height H mm/Inch	width B mm/Inch	color	EAN code	Weight per 100 pc. kg
K10 LES 60.150	60/2,3	150/5,8	black	518258	5,5
K10 LES 60.200	60/2,3	200/7,8	black	518265	6

For: Surface Metal Raceway

In case of subsequent installation you must cut the end protection ring and put it around the cables.

60



Equipotential Bonding Wire

cross sectional area 2,5 mm², with 1 blade receptacle 6,3 mm and 1 wire end sleeve

model no.	length A mm/Inch	EAN code	Weight per 100 pc. kg
CU GSL 150	150/5,8	461608	0,8



Equipotential Bonding Wire

cross sectional area 2,5 mm², with 2 blade receptacles 6,3 mm

model no.	length A mm/Inch	EAN code	Weight per 100 pc. kg
CU GSLH 200	200/7,8	461707	1
CU GSLH 350	350/13,6	461745	1,5

Corrosion resistant steels (chrome-nickel-steel) show high electric resistance. Please connect an extra ground wire to the bottom of the surface metal raceway for better equipotential bonding. Please use a boltless splice plate type LST and an equipotential bonding jumper type GSL 150 for easy installation.

Please use a "vampire" type clamp to interconnect the grounding wire

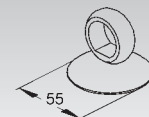
Equipotential bonding of covers is guaranteed by the snap on mechanism.

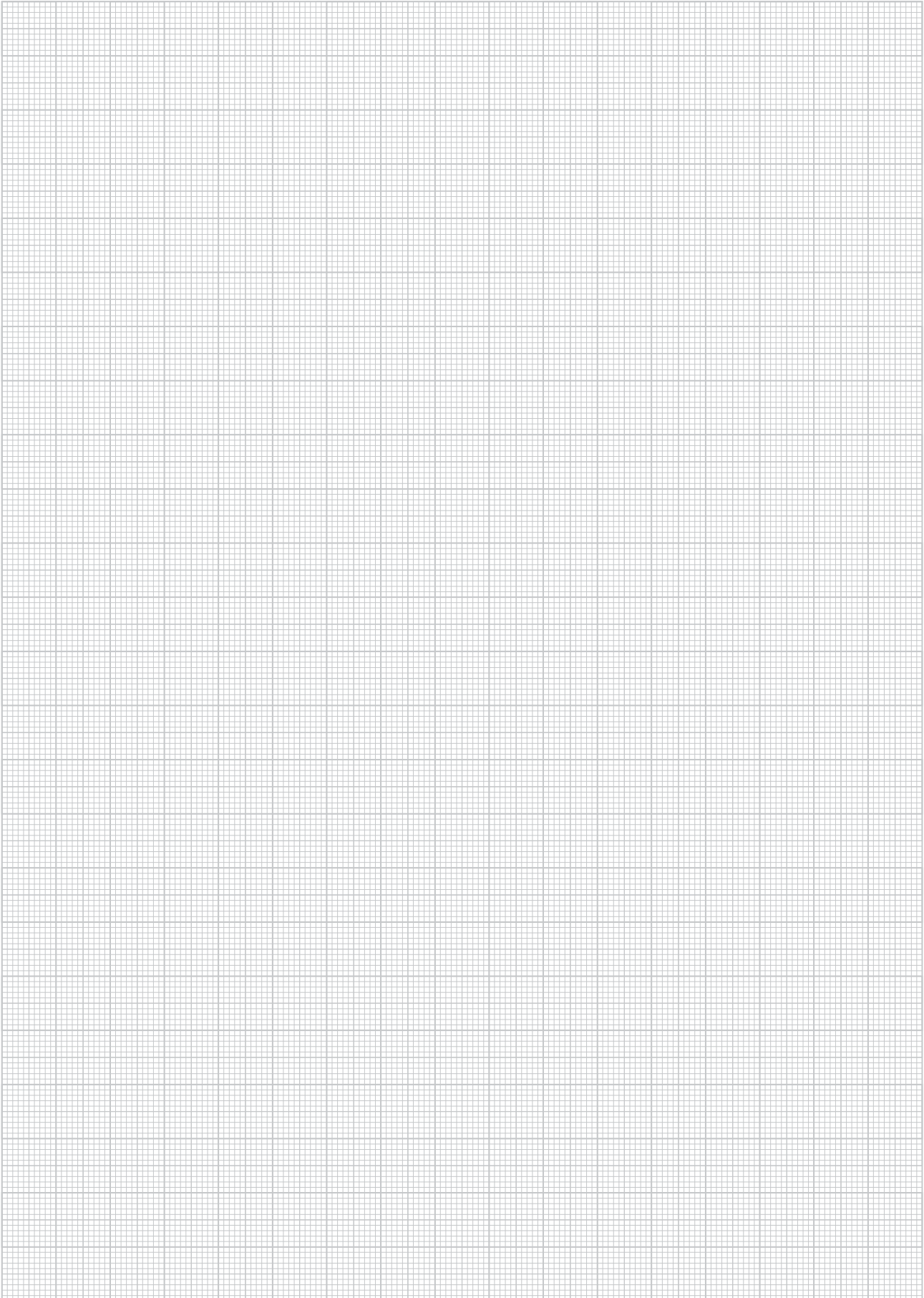


Lifting Device for Covers

model no.	RAL colour	EAN code	Weight per 100 pc. kg
DH 55	9005	417483	2

for fast dismantling of raceway covers







NIEDAX Inc.
2260 Westbrooke Drive
Columbus, OH 43228

Tel: +1 800 544 2105
Fax: +1 614 921 8676
sales@niedaxusa.com
www.niedaxusa.com

Headquarters:
NIEDAX GmbH & Co. KG
Asbacher Straße 141
D-53545 Linz/Germany

Tel: +49 2644 5606 0
Fax: +49 2644 560690
export@niedax.de
www.niedax.de