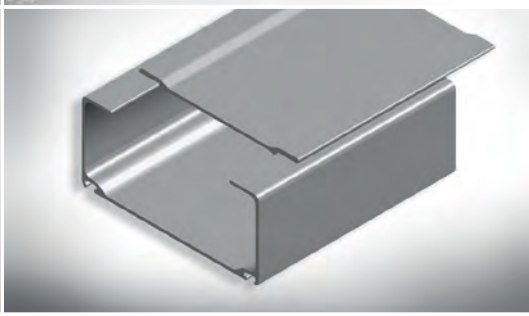
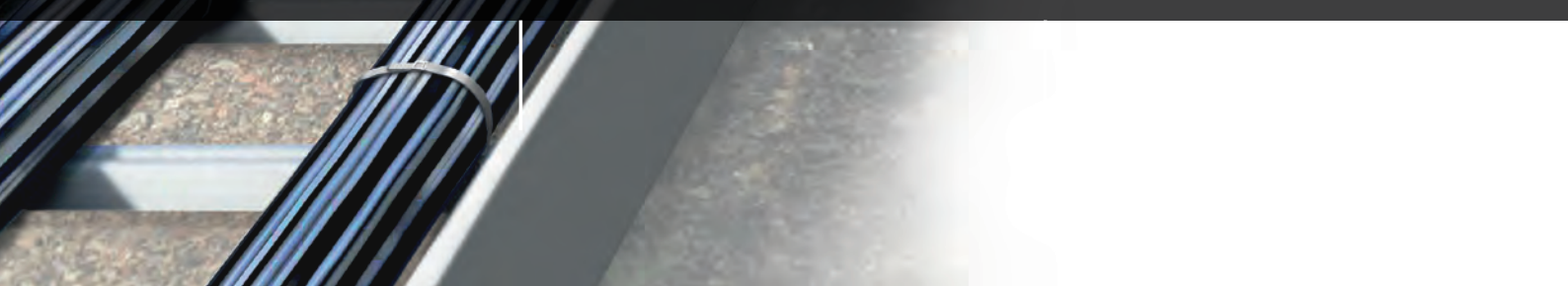
Fibrolux

CABLE MANAGEMENT

CABLE TRAYS, CABLE LADDERS

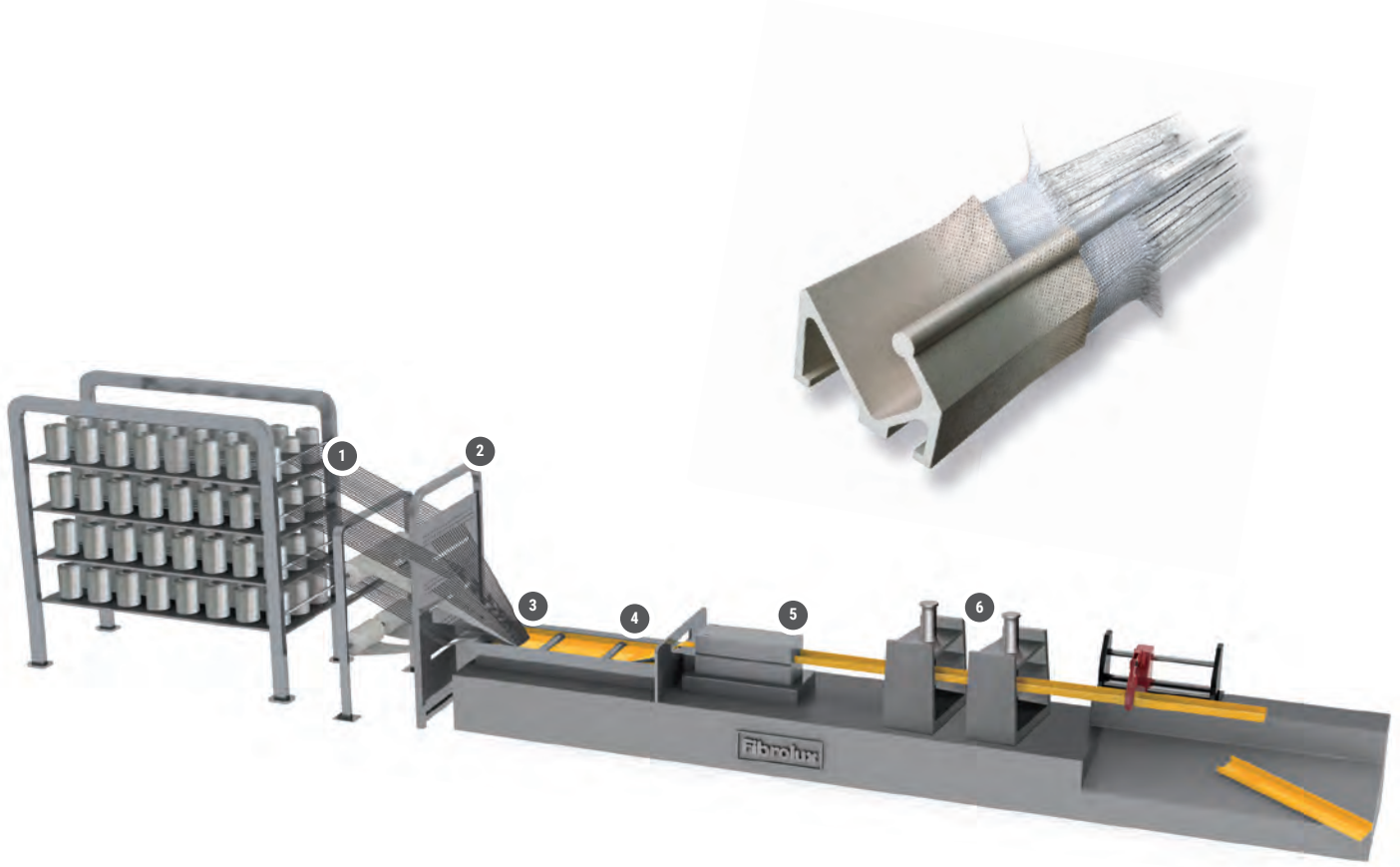


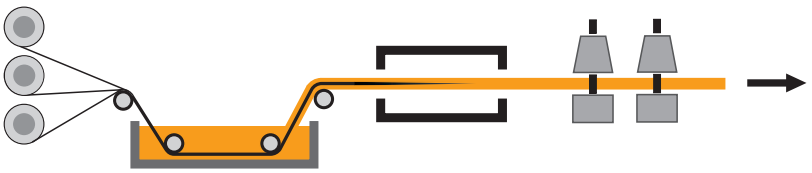
GRP GFK TWS PRFV GVK PRV PAFS

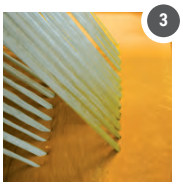


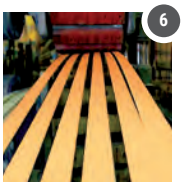
PULTRUSION

The cable systems are made from glass fibre reinforced polyester by pultrusion.









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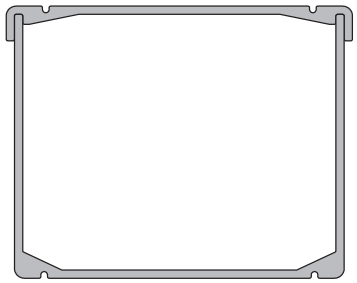
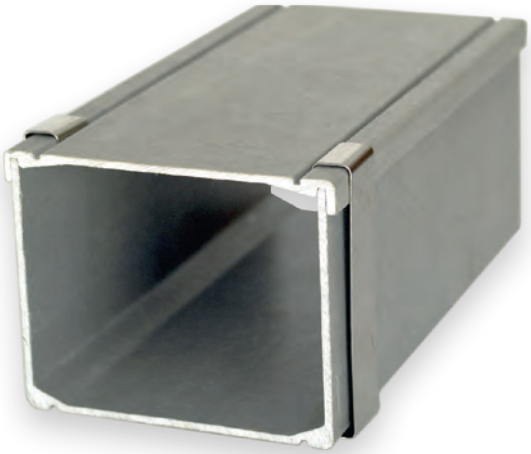
GRP CABLE TRAYS

width	span			theoretical max. possible cable load	resulting max. span
	1.000 mm	2.000 mm	3.000 mm		
60 mm	100 kg/m	54 kg/m	16 kg/m	13,4 kg/m	2.500 mm
100 mm	100 kg/m	65 kg/m	20 kg/m	22,4 kg/m	2.500 mm
200 mm	100 kg/m	80 kg/m	24 kg/m	44,8 kg/m	2.500 mm
300 mm	200 kg/m	140 kg/m	40 kg/m	67,2 kg/m	2.500 mm
400 mm	200 kg/m	145 kg/m	45 kg/m	89,6 kg/m	2.500 mm

CABLE DUCT CROSS-SECTION





KKD 60 CABLE TRAY COVER 60

KKD 60

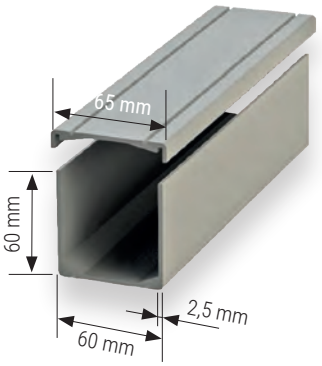
0,6 kg/m

KK 60 CABLE TRAY 60

KK 60

1,1 kg/m

cover clip
Art.-No.: 24593



KKD 100 CABLE TRAY COVER 100

KKD 100

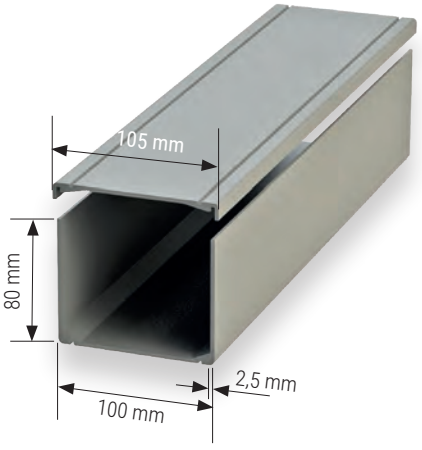
0,7 kg/m

KK 100 CABLE TRAY 100

KK 100

1,4 kg/m

cover clip
Art.-No.: 13268



KKD 200

CABLE TRAY COVER 200

KD 200

1,2 kg/m

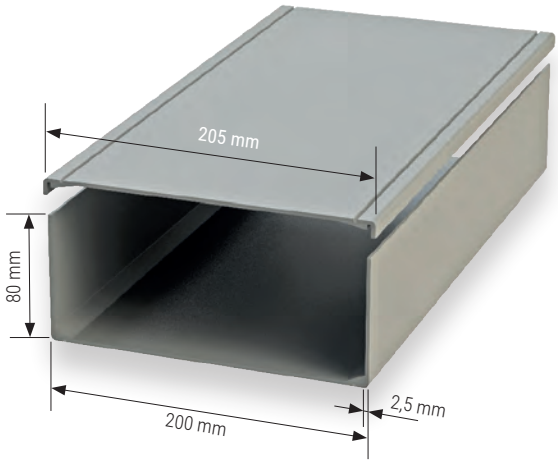
KK 200

CABLE TRAY 200

KK 200

1,9 kg/m

cover clip
Art.-No.: 13268



KKD 300

CABLE TRAY COVER 300

KKD 300

2,1 kg/m

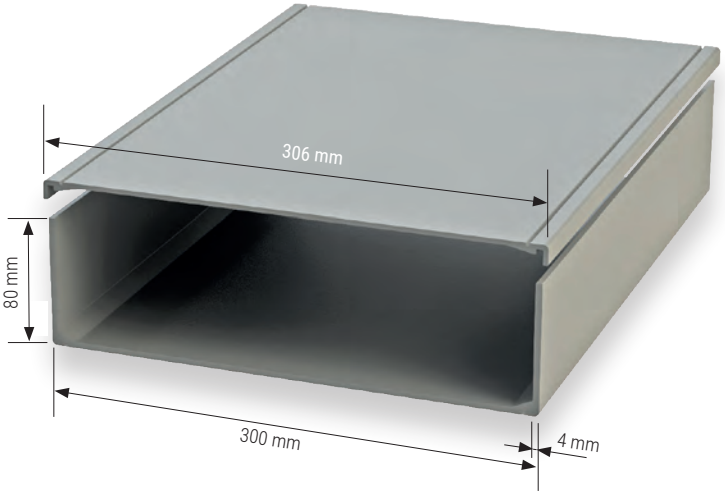
KK 300

CABLE TRAY 300

KK 300

3,8 kg/m

cover clip
Art.-No.: 15745



KKD 400

CABLE TRAY COVER 400

KKD 400

2,7 kg/m

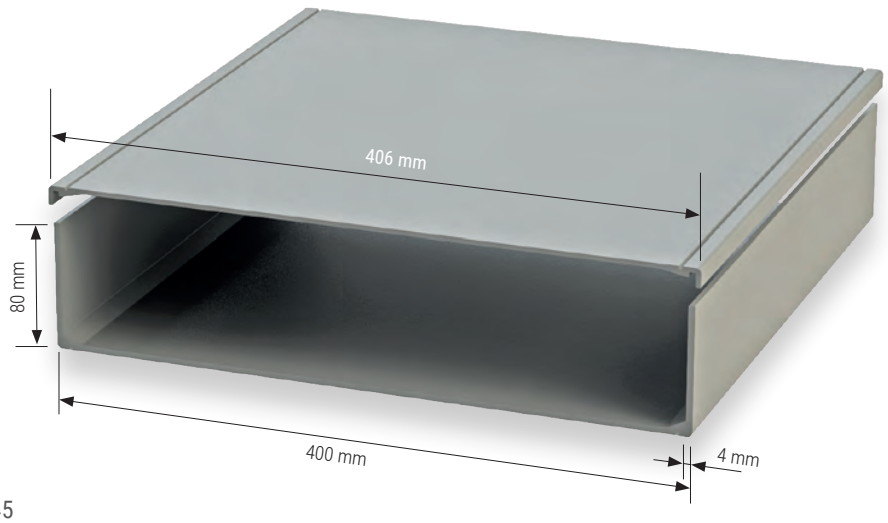
KK 400

CABLE TRAY 400

KK 400

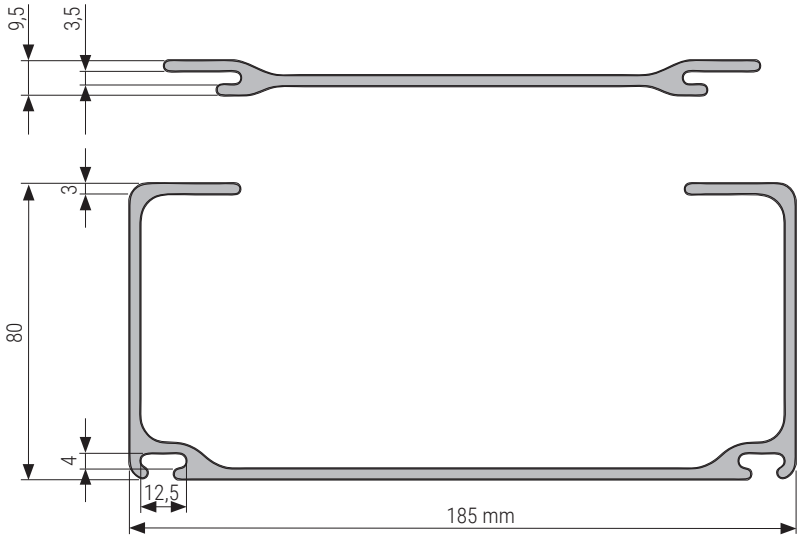
4,6 kg/m

cover clip
Art.-No.: 15745

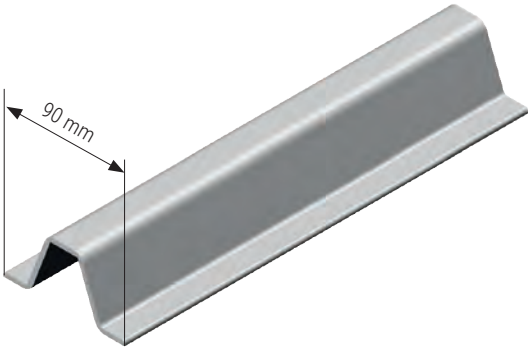


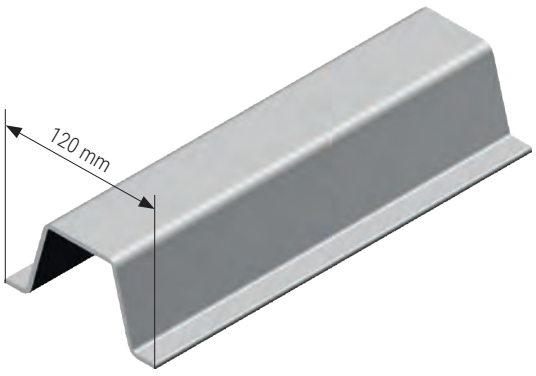
IK CABLE TRAY WITH CLIP COVER

usable cross section
~ 128 cm²

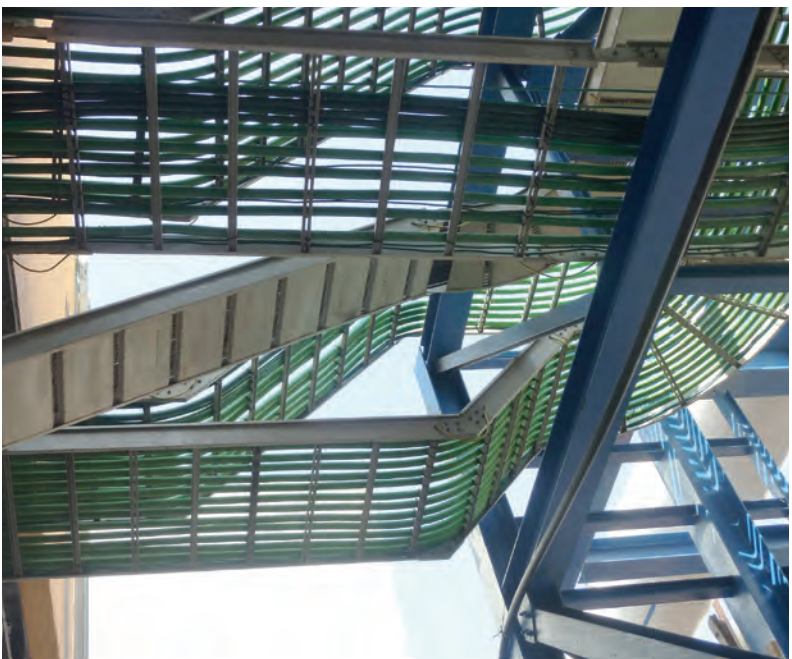


OMEGA CABLE PROTECTOR



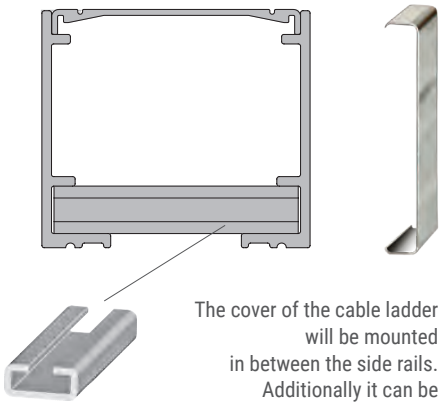


width (mm)	height (mm)	usable cross section	wall thickness
90	40	8 cm²	3,5 mm
120	58,5	27,5 cm²	3,5 mm



KL CABLE LADDER

CROSS SECTION CABLE LADDER



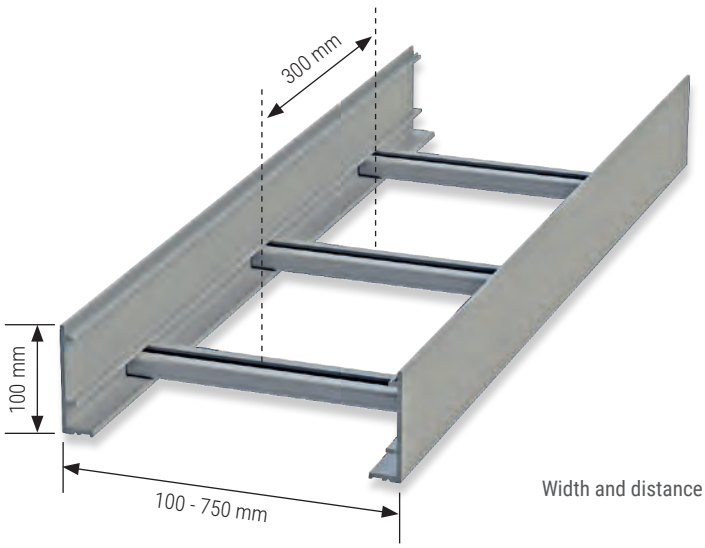
The cover of the cable ladder will be mounted in between the side rails. Additionally it can be fixed with a clip.

cover clip for cable ladder 100
Art.-No.: 15100

cover clip for cable ladder 150
Art.-No.: 22234

cover clip for cable ladder 207
Art.-No.: 24594

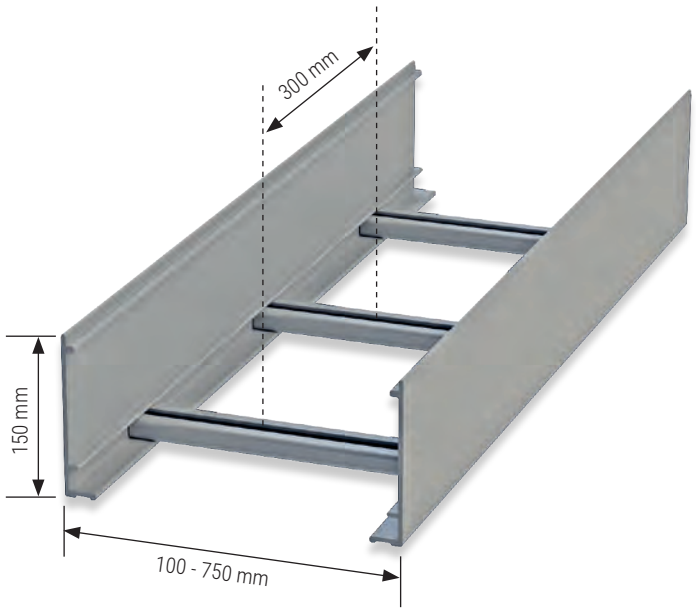
KL100 CABLE LADDER 100



width	(span)		
	1.000 mm	2.000 mm	3.000 mm
100 mm	300 kg/m	295 kg/m	120 kg/m
200 mm	300 kg/m	295 kg/m	120 kg/m
300 mm	300 kg/m	265 kg/m	120 kg/m
400 mm	250 kg/m	240 kg/m	116 kg/m
500 mm	160 kg/m	150 kg/m	108 kg/m
max. L/150 = 0,75%			

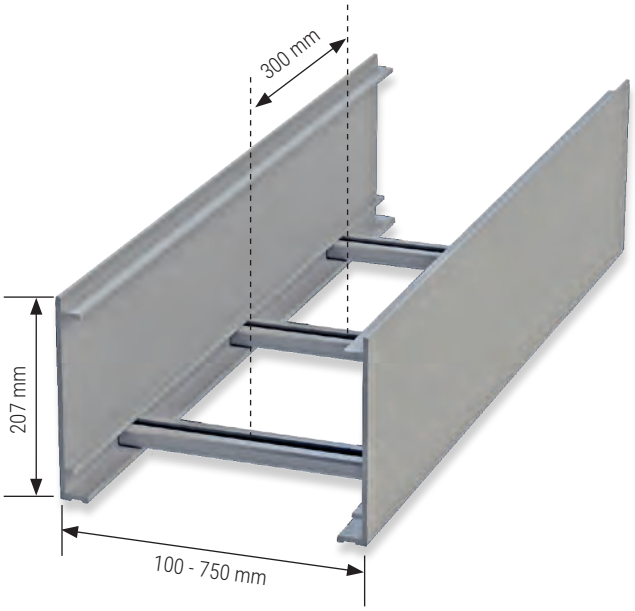
Width and distance of rails can be adapted to customers needs.

KL150 CABLE LADDER 150



width	(span)		
	1.000 mm	2.000 mm	3.000 mm
100 mm	350 kg/m	300 kg/m	250 kg/m
200 mm	350 kg/m	300 kg/m	250 kg/m
300 mm	350 kg/m	300 kg/m	240 kg/m
400 mm	270 kg/m	250 kg/m	190 kg/m
500 mm	210 kg/m	200 kg/m	180 kg/m
max. L/150 = 0,75%			

KL207 CABLE LADDER 207



width	(span)		
	1.000 mm	2.000 mm	3.000 mm
100 mm	400 kg/m	350 kg/m	300 kg/m
200 mm	400 kg/m	350 kg/m	300 kg/m
300 mm	400 kg/m	350 kg/m	300 kg/m
400 mm	320 kg/m	300 kg/m	280 kg/m
500 mm	280 kg/m	250 kg/m	210 kg/m
max. L/150 = 0,75%			

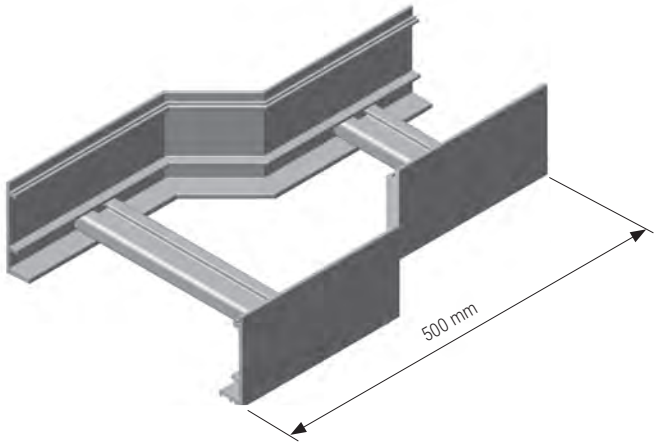
KKD COVER FOR CABLE LADDERS

Cable tray covers are used for cable ladders.

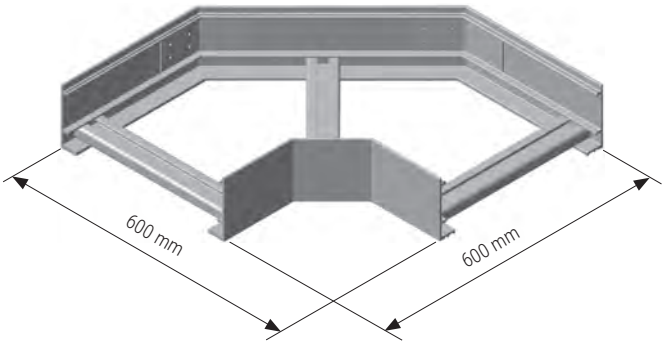
Safety floors or gratings are also suitable for covering.

width	kg
105 mm	0,7 kg/m
205 mm	1,2 kg/m
306 mm	2,1 kg/m
406 mm	2,7 kg/m

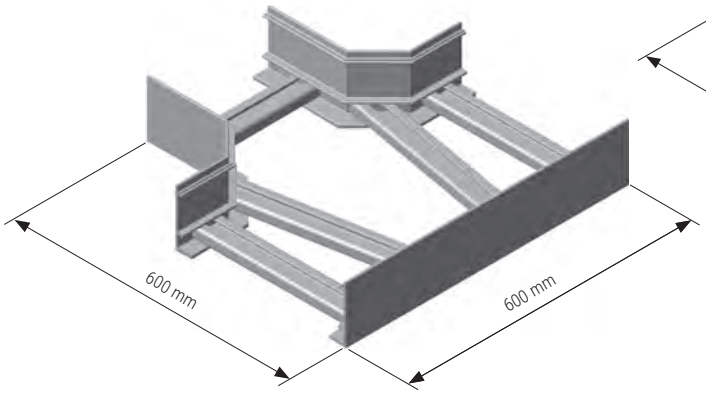
RMGr REDUCER CENTRAL



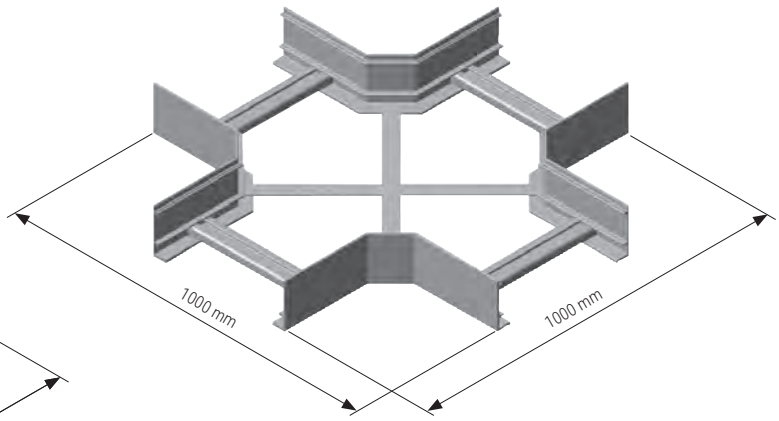
BH90 BOW 90° HORIZONTAL



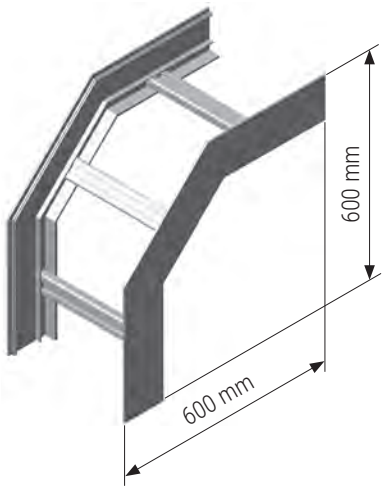
TM90 T-MODULE 90° HORIZONTAL



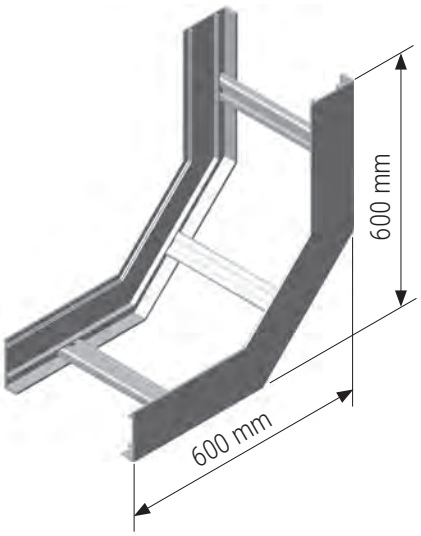
KM CROSS HORIZONTAL



BV90x RISER 90°, CONVEX



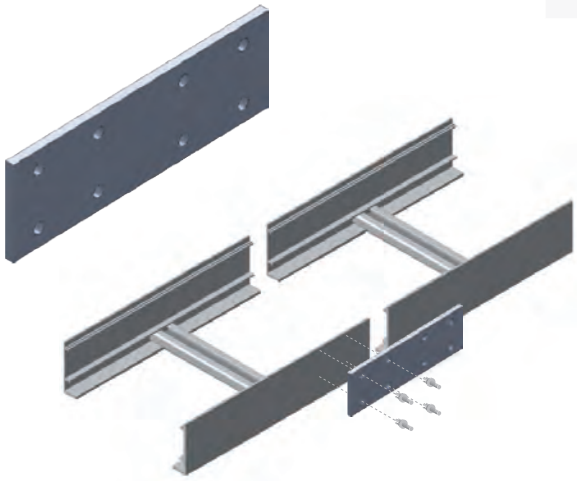
BV90v RISER 90°, CONCAVE



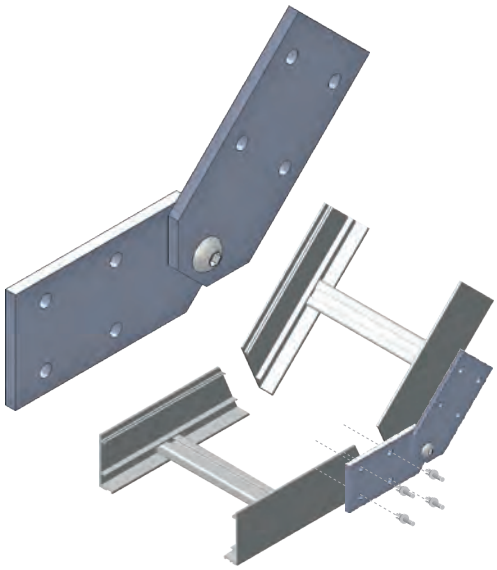
METAL FREE ACCESSORIES

LV GRP CONNECTOR

size (mm)	kg
150 x 50 x 4	0,015

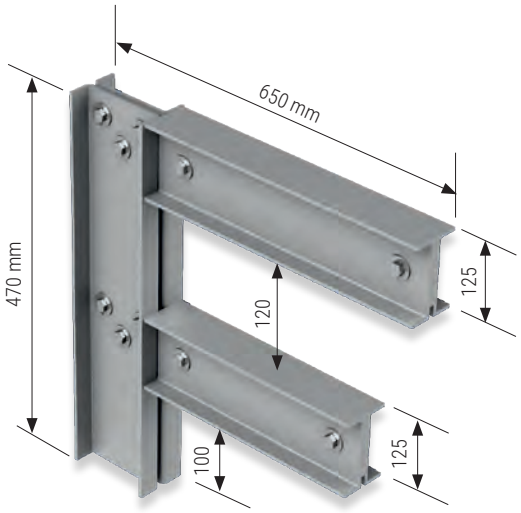


GV GRP HINGE

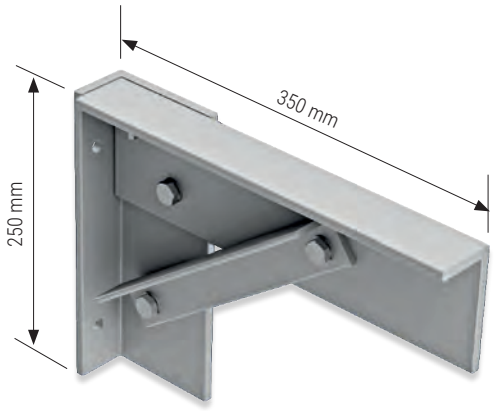


CANTILEVER ARMS

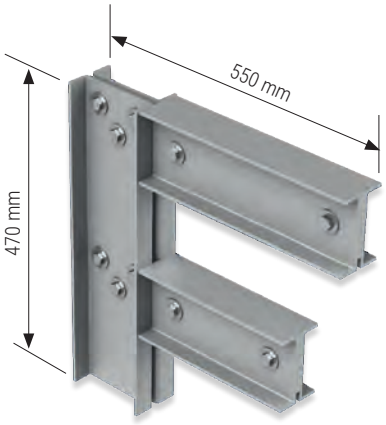
KW 650



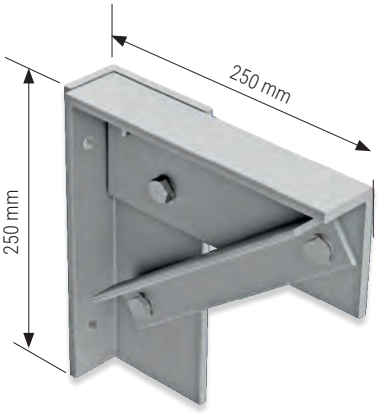
KW 350



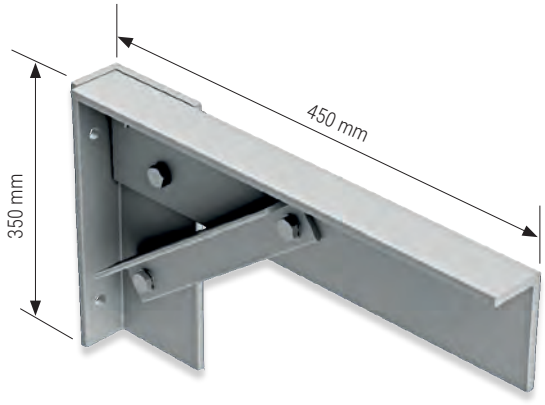
KW 550



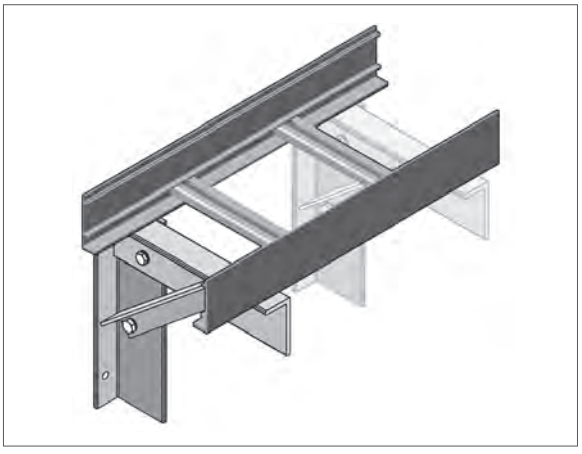
KW 250



KW 450

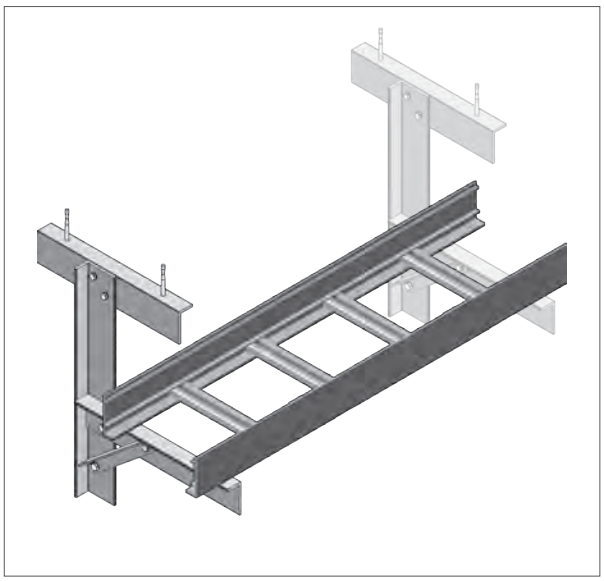


KW CANTILEVER ARMS WALL MOUNT

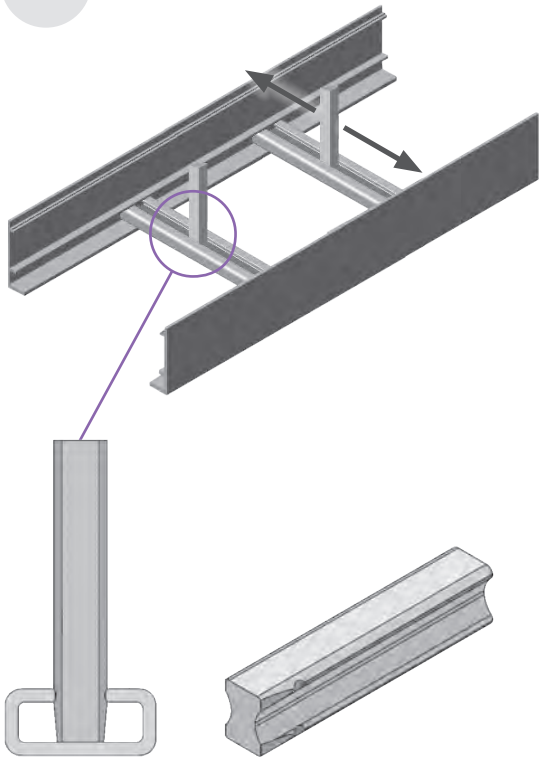


Cantilever arms are adapted to customers requirements.

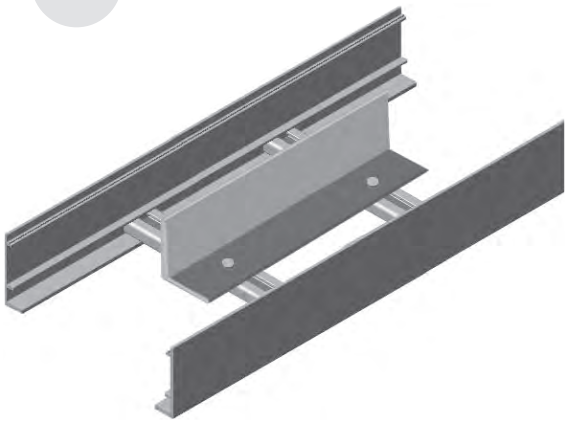
KD CANTILEVER ARMS FOR CEILING MOUNT



TB CABLE DIVIDER BOLT



TS CABLE DIVIDER ANGLE

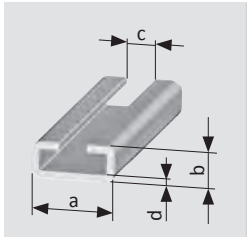


50	35	3
80	45	6
100	100	5
250	30	3

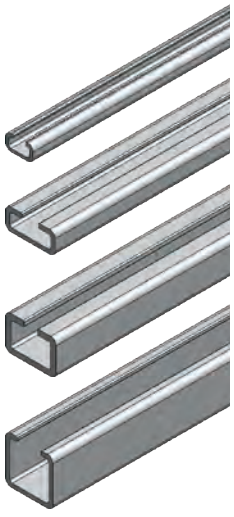
40	40	3
80	80	3

Many other dimensions available on demand.

MS SUPPORT RAILS



a	b	c	d
25	15	11	3
43	43	22	4
45	20	15	4
46	32	12	5



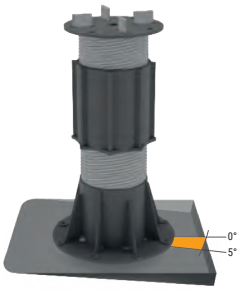
KLV CABLE LADDER CONNECTORS

Connector for cable ladder WI90
Art.-No.: 14932
Connector for cable ladder WI30
Art.-No.: 16434
Connector for cable ladder WI45
Art.-No.: 15001

Connector for cable ladder WV90
Art.-No.: 15607
Connector for cable ladder WV45
Art.-No.: 15002
Straight Connector for cable ladder
Art.-No.: 16261

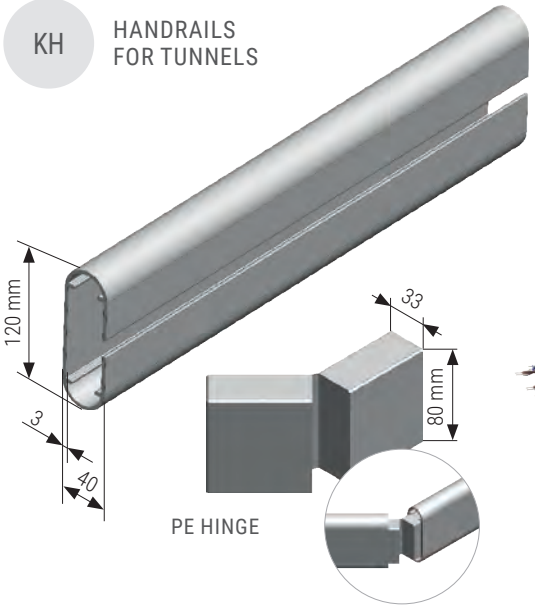
P PEDESTALS

for elevated installation of cable duct systems

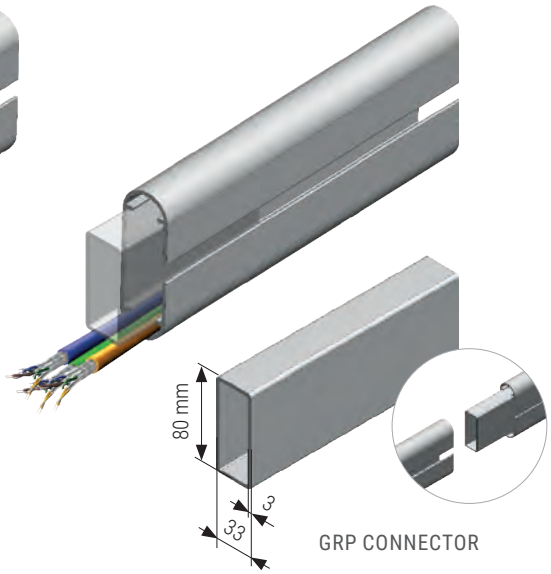


SF

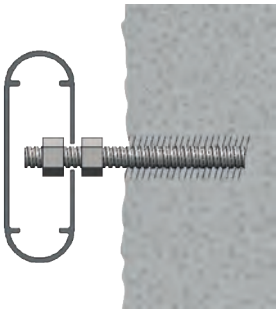
KH HANDRAILS FOR TUNNELS



PE HINGE

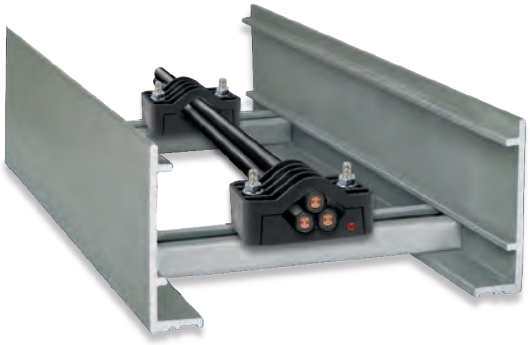


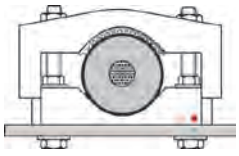
GRP CONNECTOR

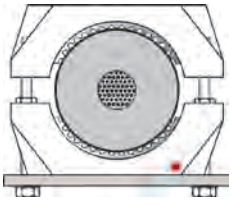


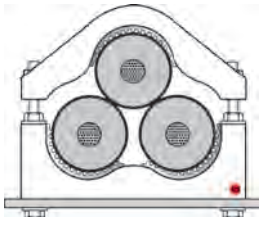
WALL MOUNT

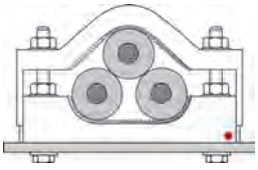
KLK CABLE CLAMPS







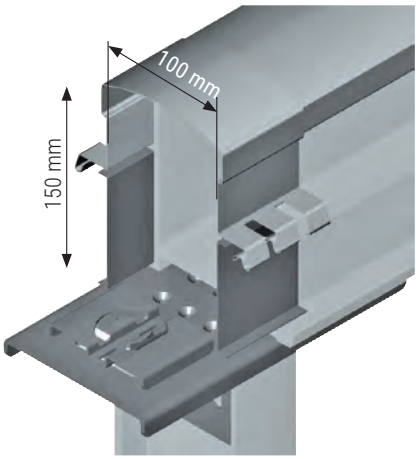




Plastic cable clamps are available in many different variants.

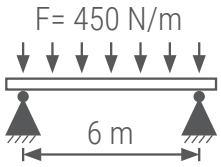
CABLE TRAY SYSTEM,
APPROVED BY THE GERMAN RAILWAY, **DEUTSCHE BAHN AG**

FT1 FIBROTRAY SIZE F1

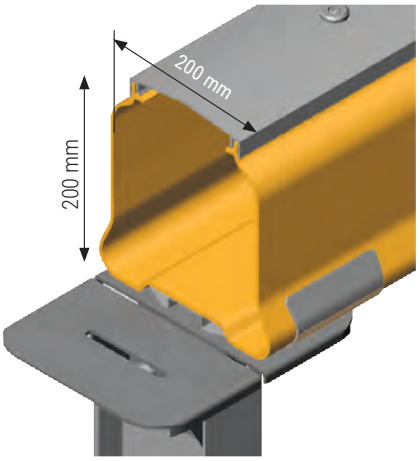


FibroTray system size 1		
post	size I	GRP I-beam 120 x 60 x 6
tray	size I	GRP cable tray F1
cover	size I	GRP cover F1

cross section	100 x 150 mm
load	0,45 kN/m
span	6 m

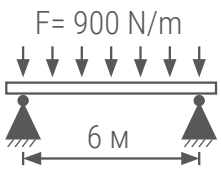


FT2 FIBROTRAY SIZE F2



FibroTray system size 2		
post	size II	GRP I-beam150 x 75 x 6
tray	size II	GRP cable tray F2
cover	size II	GRP cover F2

cross section	200 x 200 mm
load	0,9 kN/m
span	6 m



CHEMICAL RESISTANCE

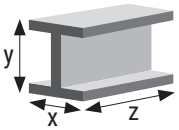
	ISO RESIN		VE RESIN	
	20° C	50° C	20° C	50° C
$AgNO_3$	●	●	●	●
$AlCl_3$	●	●	●	●
$Al(NO_3)_3$	●	●	●	●
$Al_2(SO_4)_3$	●	●	●	●
$BaCl_2$	●	●	●	●
$BaCO_3$	●	●	●	●
$Ba(OH)_2$	●	●	●	●
$Ba(NO_3)_2$	●	●	●	●
BaS	●	●	●	●
$BaSO_4$	●	●	●	●
$CaCl_2$	●	●	●	●
$Ca(ClO)_2$, 15%	●	●	●	●
$Ca(OH)_2$, 20%	●	●	●	●
$Ca(NO_3)_2$	●	●	●	●
CCl_4, 100%	●	●	●	●
CH_3-COOH, 5%	●	●	●	●
CH_3-COOH, 50%	●	●	●	●
CH_3-COOH, 75%	●	●	●	●
C_4H_8O MEK, 100%	●	●	●	●
CHOOH, 10%	●	●	●	●
C_2H_5OH, 10%	●	●	●	●
CH_3OH, 100%	●	●	●	●
CO_2	●	●	●	●
CuCl, $CuCl_2$	●	●	●	●
$CuSO_4$	●	●	●	●
CS_2, 100%	●	●	●	●
$FeCl_2$	●	●	●	●
$Fe(NO_3)_3$	●	●	●	●
$FeSO_4$	●	●	●	●
HBr, 10%	●	●	●	●
HCN, 10%	●	●	●	●
HCl, 5%	●	●	●	●
HCl 20%	●	●	●	●
H_2CrO_4, 5%	●	●	●	●
H_2CrO_4, 10%	●	●	●	●
HNO_3, 5%	●	●	●	●
H_2O_2, 3%	●	●	●	●
H_2O+Cl_2	●	●	●	●
H_3PO_4, 10%	●	●	●	●
H_2SO_4, 10%	●	●	●	●
H_2SO_4, 30%	●	●	●	●

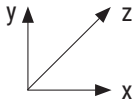
	ISO RESIN		VE RESIN	
	20° C	50° C	20° C	50° C
KCl	●	●	●	●
KOH, 5%	●	●	●	●
KOH, 10%	●	●	●	●
KOH, 25%	●	●	●	●
KOH, 50%	●	●	●	●
K_2CO_3, 10%	●	●	●	●
KNO_3	●	●	●	●
$KMnO_4$	●	●	●	●
K_2SO_4	●	●	●	●
$MgCl_2$	●	●	●	●
$MgCO_3$	●	●	●	●
$Mg(NO_3)_2$	●	●	●	●
$MgSO_4$	●	●	●	●
NaBr	●	●	●	●
NaCl	●	●	●	●
NaCN	●	●	●	●
Na_2CO_3, 10%	●	●	●	●
$NaHCO_3$, 10%	●	●	●	●
$NaHSO_3$	●	●	●	●
$NaNO_3$	●	●	●	●
$NaNO_2$	●	●	●	●
NaOH, 5%	●	●	●	●
NaOH, 10%	●	●	●	●
NaOH, 25%	●	●	●	●
NaOCl, 20%	●	●	●	●
Na_2SO_4	●	●	●	●
Na_2SO_3	●	●	●	●
$Na_2S_2O_3$	●	●	●	●
NH_3, 10%	●	●	●	●
NH_4Br	●	●	●	●
NH_4Cl	●	●	●	●
NH_4F	●	●	●	●
$(NH_4)_2CO_3$	●	●	●	●
NH_4NO_3	●	●	●	●
$(NH_4)_3PO_4$	●	●	●	●
$(NH_4)_2SO_4$	●	●	●	●
$NiCl_2$	●	●	●	●
$Ni(NO_3)_2$	●	●	●	●
$NiSO_4$	●	●	●	●
$ZnCl_2$	●	●	●	●
$ZnSO_4$	●	●	●	●

TECHNICAL DATA

EN 13706

	MR CROSSWISE REINFORCED WITH MATS		UD UNDIRECTIONAL, ROVINGS ONLY
	Z	X	Z
	250 - 450 MPa	20 - 60 MPa	900 MPa
	250 - 450 MPa	20 - 60 MPa	900 MPa
E	25.000 MPa	9.000 MPa	40.000 MPa
ε%	1,0 - 1,8 %		2 %
	150 - 300 MPa	30 - 60 MPa	450 MPa
E	10.000 MPa	4.000 MPa	30.000 MPa
KG	2,0 kg / dm³		2,1 kg / dm³
kJ/m²	90 - 120 kJ / m²		120 kJ / m²
	> 40 Barcol		> 50 Barcol





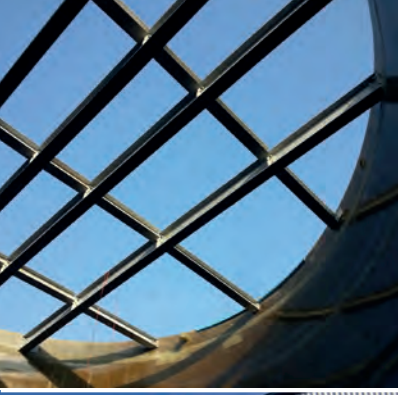
F F	25 - 35 MPa
	5 - 10 kV/mm
CTI	KC 600
	12 x 10^{-6} $^{1}/_{K}$
+180°C 0°C -100°C	-100°C - +155°C (180 °C)
H_2O	< 0,15%

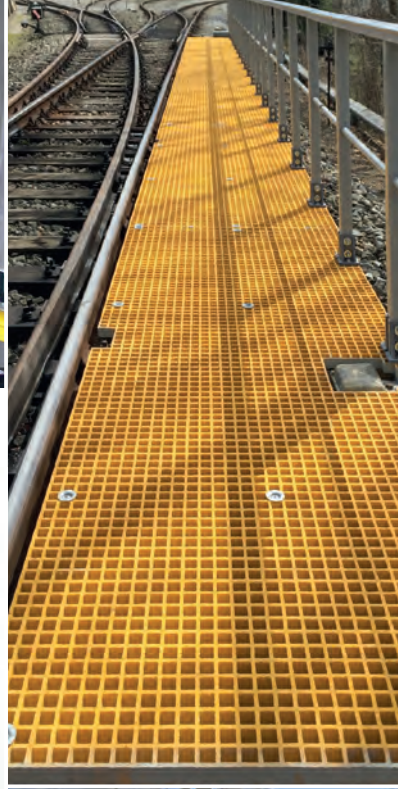
SHORT- AND LONG-TERM APPLICATION LIMITS

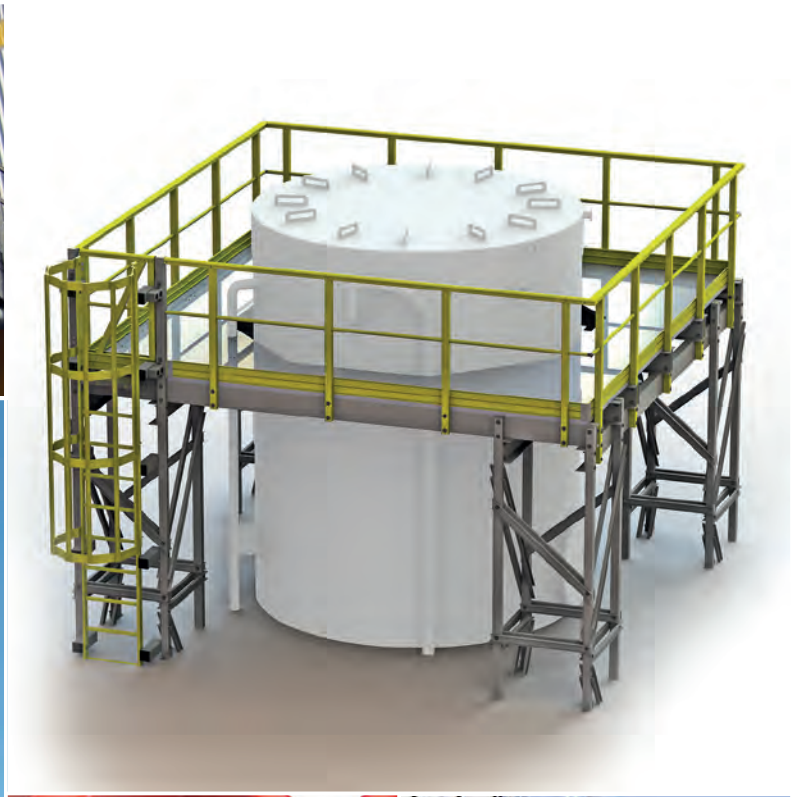
	135 MPa	20 MPa	70 MPa	15 MPa
	135 MPa	20 MPa	70 MPa	15 MPa
	135 MPa	25 MPa	70 MPa	20 MPa
	17 MPa		8 MPa	

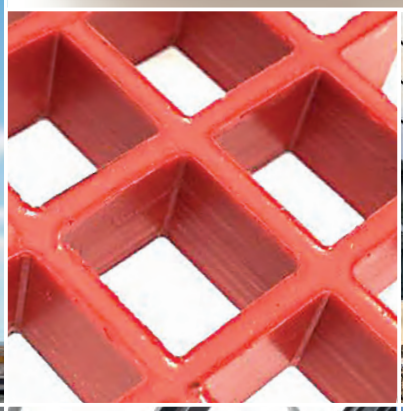
Depending on the type of fibre reinforcement, the profile structure and the wall thickness the technical data of the GRP profiles vary.

The application-specific suitability must be checked on a case-by-case basis.



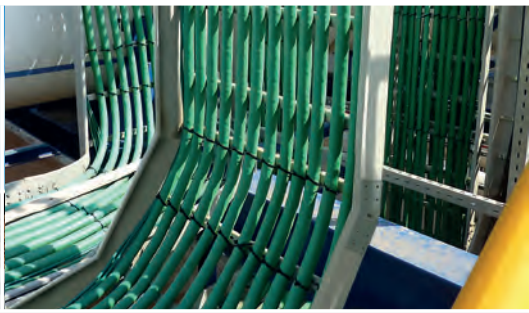






	Self-extinguishing and halogen free
	RoHS compliant ELV compliant WEEE compliant RLAP compliant REACH compliant
	Corrosion and chemical resistant to a wide range of chemicals
	Cost efficient
	Fast and easy utilisation
	Suitable for use from -100°C to +180°C
	Linear stress-strain behavior
	Electrically insulating
	UV and weather resistant
	High strength

	Fire protection classification to EN 45545-2 R22/R23, HL1-HL3 UL94 V0



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