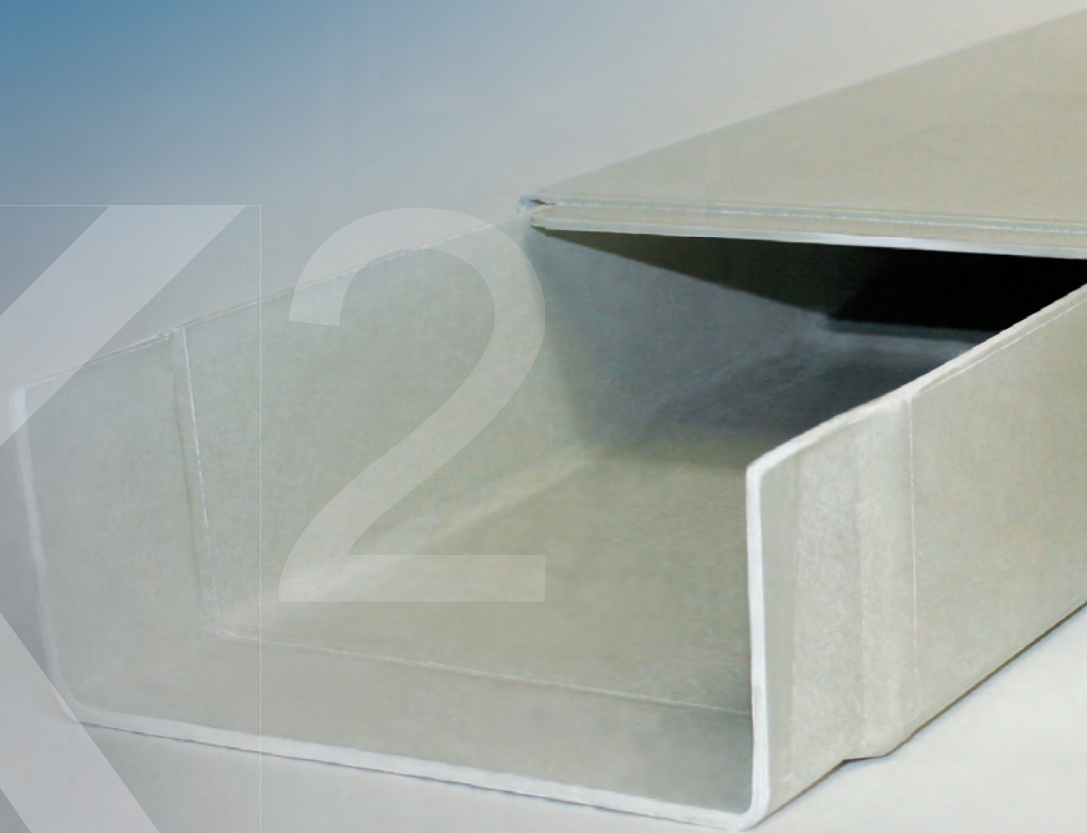


System  
**K<sup>2</sup>**



Cable tray systems available in height    

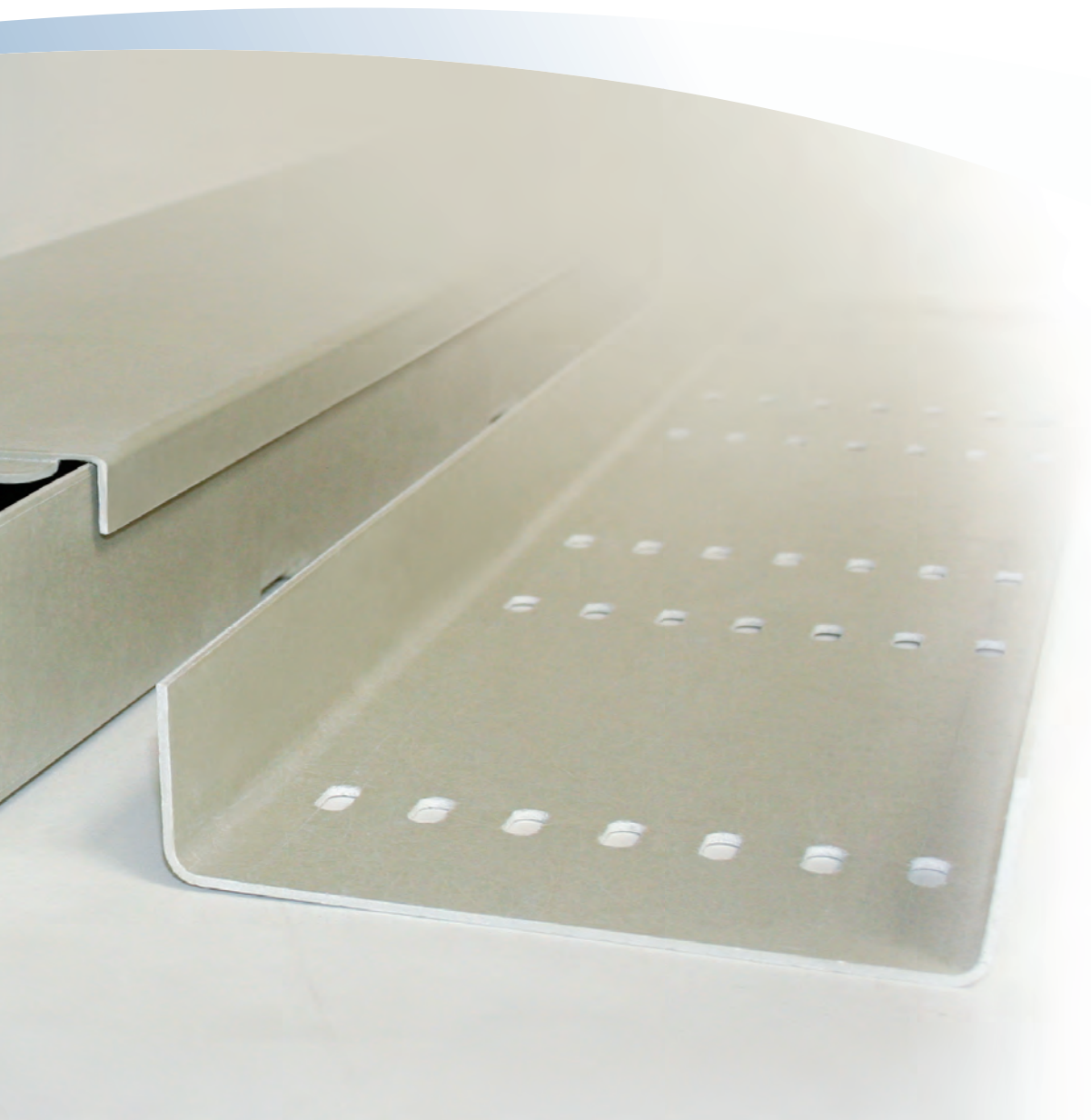
Cable trays

Dividers

Fittings

Covers
































































Accessoires



The cable tray system K<sup>2</sup> EBO Systems (hot press moulding) offers the widest and most complete range of the GRP market. Its unique interlocking and self-adjusting couplers allows a screwless connection between the cable tray lengths, and a support distance of up to 1.5 m.

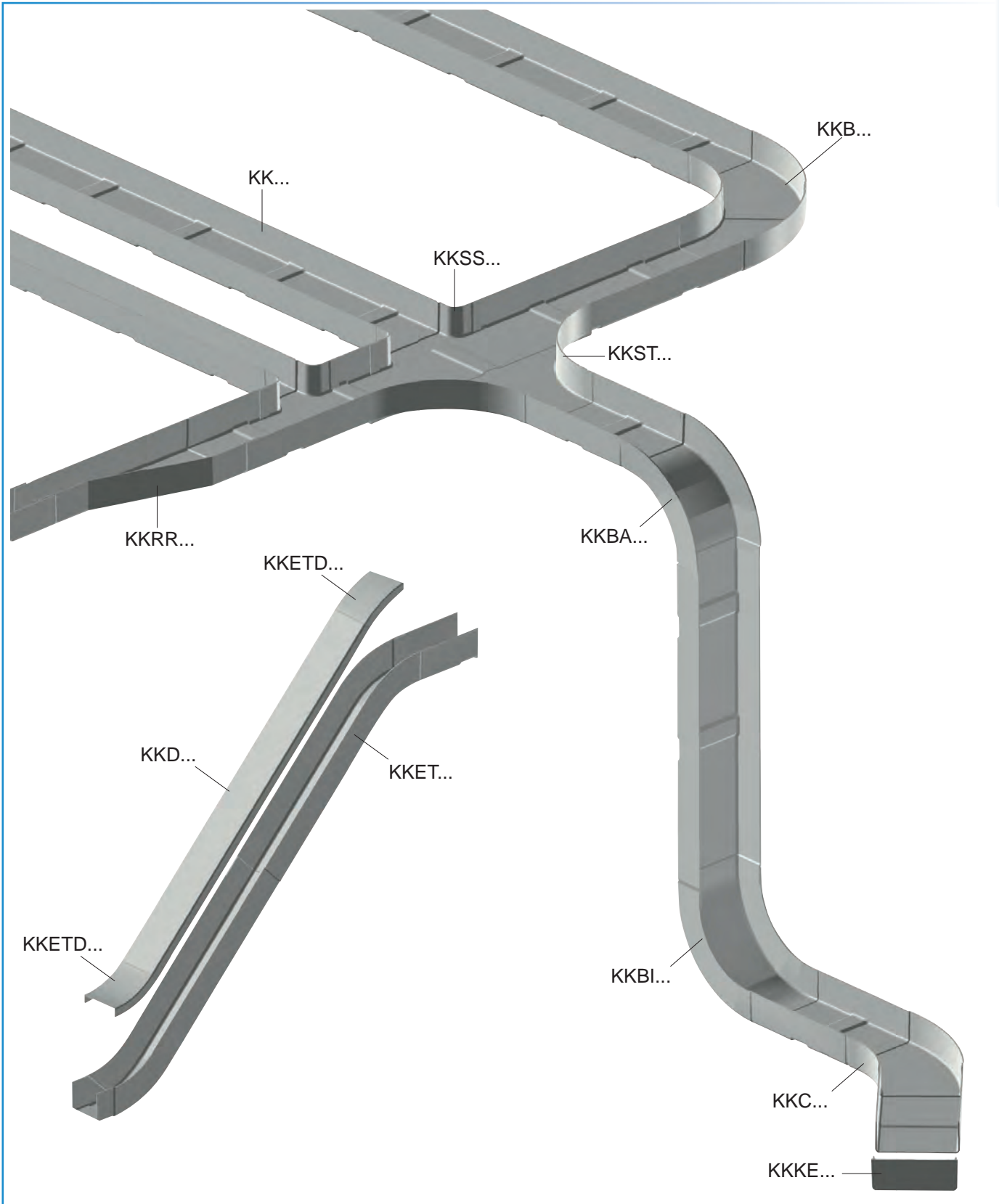
# CABLE TRAY SYSTEM K<sup>2</sup>

## Available siderail heights

SYSTEM	GRP-Cable tray, pressed, perforated	<b>KKL</b>	 30	 30	 35	 40
	GRP-Cable tray, pressed, not perforated	<b>KK</b>	 30	 30	 35	 40
ACCESSORIES	GRP-Encap, pressed	<b>KKKE</b>	 —	 30	 35	 40
	GRP-Splice plate, pressed, horizontal	<b>KKGH</b>	 —	 31	 35	 40
	STAINLESS STEEL-Splice plate-horizontal	<b>KKIH</b>	 —	 31	 36	 41
	GRP-Divider, pressed	<b>KKT...</b>	 —	 31	 36	 41
	GRP-T, pressed, small radius	<b>KKSS</b>	 —	 31	 36	 —
	GRP-T, pressed, big radius	<b>KKST</b>	 —	 31	 36	 41
	GRP-Elbow 45°, pressed, horizontal	<b>KKC</b>	 —	 32	 37	 41
	GRP-Elbow 90°, pressed, big radius	<b>KKB</b>	 —	 32	 37	 42
	GRP-Elbow 90°, pressed, small radius	<b>KKW</b>	 —	 32	 37	 41
	GRP-Reducer, pressed, right	<b>KKRR</b>	 —	 32	 37	 42
	GRP-Reducer, pressed, left	<b>KKRL</b>	 —	 32	 38	 42
	GRP-Splice plate, vertical	<b>KKGV</b>	 —	 33	 38	 42
	STAINLESS STEEL-Splice plate, vertical	<b>KKIV</b>	 —	 33	 38	 42
	GRP-Changing elevation	<b>KKET</b>	 —	 33	 38	 43
	GRP-Inside elbow 90°, pressed	<b>KKBI</b>	 —	 33	 39	 43
	GRP-Outside elbow 90°, pressed	<b>KKBA</b>	 —	 34	 39	 43
	GRP-Mounting plate, pressed	<b>MP</b>	 —	 34	 39	 44
	Cover clip	<b>DF...</b>		50/51		
	Separating stud	<b>TB</b>		52*		
	Dome head bolt	<b>FKM</b>		52*		
	Hexagon head bolt	<b>SKM</b>		52*		
 NEW	Cover fixing insert	<b>DF M</b>		50*		
	Cover clip	<b>DFUB</b>		52*		

Covers for cables ladders UL systems are available from page 46.

\* suitable for all heights



# CABLE TRAY SYSTEM K<sup>2</sup>

## GRP cable trays

pressed, perforated, equipped with a shaped coupler

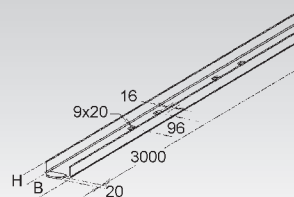
Item ref.	RAL colour	Height	Width B	Material thickness (th)	Operating cross cut	EAN code	Weight 100 units m	Min. pack.
		mm	mm	mm	mm <sup>2</sup>			
K23 <b>KKL 20.050</b>	7032	20	50	3	830	952205	47	3 m

The splice plates KKGH must be fixed on the base.

Due to the expansion of the material, the following points during installation must be observed: Please take into account an expansion joint of 8 mm for dilatation.

For fixing the cables trays on brackets, you need to drill a 9 mm diameter hole for the fixing of the cable tray base with bolts M6x20 V4A.

Warning: the deflection is measured with a junction position between 2 cable trays at a distance L/5 from the support. If this distance is not respected, it is necessary to raise the deflection values by approx. 30%.



## GRP cable trays

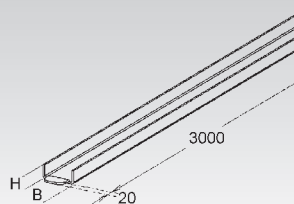
pressed, not perforated, with interlocking coupler,

Item ref.	RAL colour	Height	Width B	Material thickness (th)	Operating cross cut	EAN code	Weight 100 units m	Min. pack.
		mm	mm	mm	mm <sup>2</sup>			
K23 <b>KK 20.050</b>	7032	20	50	3	830	952007	47	3 m

The splice plates KKGH must be fixed on the base

Due to the expansion of the material, the following points during installation must be observed: Please take into account an expansion joint of 8 mm for dilatation. For the fixing of cable trays on brackets, a 9 mm diameter hole must be drilled in the cable tray base to fix them with bolts M6x20 V4A.

Warning: the deflection is measured with a junction position between 2 cable trays at a distance L/5 from the support. If this distance is not respected, it is necessary to raise the deflection values by approx. 30%.

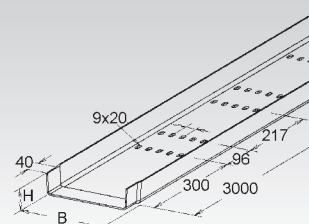


## GRP cable trays

pressed, perforated, equipped with a shaped coupler

Item ref.	RAL colour	Height	Width B	Admissible load F at L=1,5 m	Material thickness (th)	Operating cross cut	EAN code	Weight 100 units m	Min. pack.
		mm	mm	kN/m	mm	mm <sup>2</sup>			
K23 <b>KKL 50.050</b>	7032	50	50	0,05	3	1500	952212	66,4	3 m
K23 <b>KKL 50.100</b>	7032	50	100	0,3	3	3700	952229	94,6	3 m
K23 <b>KKL 50.150</b>	7032	50	150	0,3	3	5900	952236	128,0	3 m
K23 <b>KKL 50.200</b>	7032	50	200	0,3	3	8100	952243	137,4	3 m
K23 <b>KKL 50.300</b>	7032	50	300	0,3	3	12500	952250	210,0	3 m

Warning: the deflection is measured with a junction position between 2 cable trays at a distance L/5 from the support. If this distance is not respected, it is necessary to raise the deflection values by approx. 30%.

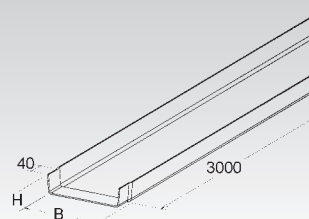


## GRP cable trays

pressed, not perforated, with interlocking coupler

Item ref.	RAL colour	Height	Width B	Admissible load F at L=1,5 m	Material thickness (th)	Operating cross cut	EAN code	Weight 100 units m	Min. pack.
		mm	mm	kN/m	mm	mm <sup>2</sup>			
K23 <b>KK 50.050</b>	7032	50	50	0,05	3	1500	952014	70	3 m
K23 <b>KK 50.100</b>	7032	50	100	0,3	3	3700	952021	98	3 m
K23 <b>KK 50.150</b>	7032	50	150	0,3	3	5900	952038	125	3 m
K23 <b>KK 50.200</b>	7032	50	200	0,3	3	8100	952045	152	3 m
K23 <b>KK 50.300</b>	7032	50	300	0,3	3	12500	952052	210	3 m

Warning: the deflection is measured with a junction position between 2 cable trays at a distance L/5 from the support. If this distance is not respected, it is necessary to raise the deflection values by approx. 30%.



## End cap for GRP cable tray

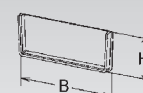
pressed

Item ref.	RAL colour	Height	Width B	EAN code	Weight 100 units pc	Min. pack.
		mm	mm			
K23 <b>KKKE 50.050</b>	7032	50	50	955190	2,0	1 p.
K23 <b>KKKE 50.100</b>	7032	50	100	955206	6,0	1 p.
K23 <b>KKKE 50.150</b>	7032	50	150	955213	4,0	1 p.
K23 <b>KKKE 50.200</b>	7032	50	200	955220	11,5	1 p.
K23 <b>KKKE 50.300</b>	7032	50	300	955237	17,0	1 p.

for the closing of the cable tray ends

Used for: Cable trays KK..., KKL... H50 mm

Mounting accessories required: 2 bolts M6x16 V4A (to be ordered separately)





## GRP adjustable splice plate

pressed, horizontal

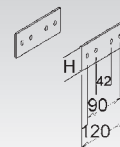
Item ref.	RAL colour	Height mm	EAN code	Weight 100 units	Min. pack.
K23 <b>KKGH 50</b>	7032	35	955626	2,4	1 set

for the horizontal connection of cable trays and fittings H50 mm lengthwise

**Need: 2 pieces for each cut**

for the cable tray connection with an expansion joint

Mounting accessories required : 4 bolts M6x20 V4A ( to be ordered separately )



## Horizontal splice plate

horizontal

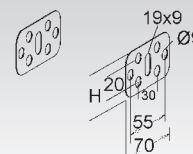
Item ref.	Height mm	EAN code	Weight 100 units	Min. pack.
E4 <b>KKIH 50 E4</b>	38	955657	1,4	1 set

for the horizontal connection of cable trays and fittings H50 mm and for the changes of directions.

**Need: 2 pieces for each cut**

for the length adjustment, please leave a space between cable trays.

Mounting accessories required : 4 bolts M6x16 V4A ( to be ordered separately )



## GRP separator

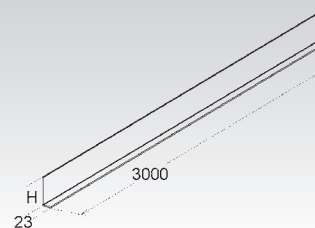
pressed

Item ref.	RAL colour	Height mm	EAN code	Weight 100 units m	Min. pack.
K23 <b>KKT 50</b>	7032	42	953028	38	3 m
K23 <b>KKT 50/M</b>	7032	42	953059	38	3 m

to separate cables with different functions and / or to separate voltages

The divider **KKT 50** is delivered not mounted, it can be fixed in the cable tray with a bolt M 6x16 V4A each meter.

The divider **KKT50/M** can be delivered pre-mounted ( riveted ), the position inside the cable tray must be defined in the purchase order.

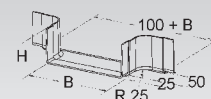


## GRP tee junction for cable tray, small radius

pressed, with interlocking coupler

Item ref.	RAL colour	Height mm	Width B mm	EAN code	Weight 100 units pc	Min. pack.
K23 <b>KKSS 50.050</b>	7032	50	50	954780	15	1 p.
K23 <b>KKSS 50.100</b>	7032	50	100	954797	10	1 p.
K23 <b>KKSS 50.150</b>	7032	50	150	954803	20	1 p.
K23 <b>KKSS 50.200</b>	7032	50	200	954810	25	1 p.
K23 <b>KKSS 50.300</b>	7032	50	300	954827	30	1 p.

During the installation, you must take care to position a support at each cable tray end and to fix them with bolts M 6x16 V4A.



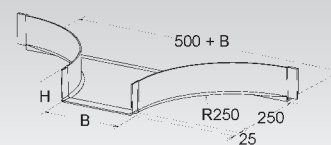
## GRP tee junction for cable tray, large radius

pressed, with interlocking coupler

Item ref.	RAL colour	Height mm	Width B mm	EAN code	Weight 100 units pc	Min. pack.
K23 <b>KKST 50.100</b>	7032	50	100	954575	60,0	1 p.
K23 <b>KKST 50.150</b>	7032	50	150	954582	67,7	1 p.
K23 <b>KKST 50.200</b>	7032	50	200	954599	76,6	1 p.
K23 <b>KKST 50.300</b>	7032	50	300	954605	100,0	1 p.

During the assembly, every fitting must be supported at each end, at the cable entry.

To ensure a correct installation, the couplers must be fixed laterally by 4 bolts M6x16 V4A on each tray end.



# CABLE TRAY SYSTEM K<sup>2</sup>

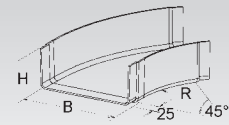
## Horizontal elbow 45°

pressed, with interlocking coupler

Item ref.	RAL colour	Height	Width B	Radius R	EAN code	Weight 100 units pc	Min. pack.
		mm	mm	mm			
K23 <b>KKC 50.100</b>	7032	50	100	100	953400	20	1 p.
K23 <b>KKC 50.150</b>	7032	50	150	175	953417	25	1 p.
K23 <b>KKC 50.200</b>	7032	50	200	200	953424	30	1 p.
K23 <b>KKC 50.300</b>	7032	50	300	225	953431	60	1 p.

The piece is provided with a sleeve riveted on one side only.

To ensure a correct installation, the couplers must be fixed laterally by 2 bolts M6x16 V4A on each tray end.



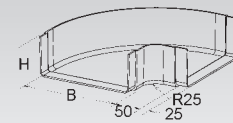
## Horizontal elbow 90°, small radius

pressed, with interlocking coupler

Item ref.	RAL colour	Height	Width B	EAN code	Weight 100 units pc	Min. pack.
		mm	mm			
K23 <b>KKW 50.050</b>	7032	50	50	953646	10	1 p.
K23 <b>KKW 50.100</b>	7032	50	100	953653	21	1 p.
K23 <b>KKW 50.150</b>	7032	50	150	953660	35	1 p.
K23 <b>KKW 50.200</b>	7032	50	200	953677	40	1 p.
K23 <b>KKW 50.300</b>	7032	50	300	953684	80	1 p.

During the assembly, every fitting must be supported at each end, at the cable entry.

To ensure a correct installation, the couplers must be fixed laterally by 2 bolts M6x16 V4A on each tray end.



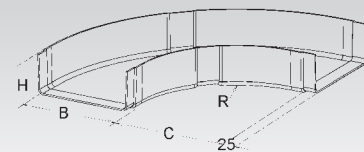
## Horizontal elbow 90°, large radius

pressed, with interlocking coupler

Item ref.	RAL colour	Height	Width B	C	Radius R	EAN code	Weight 100 units pc	Min. pack.
		mm	mm	mm	mm			
K23 <b>KKB 50.100</b>	7032	50	100	125	100	953165	37,0	1 p.
K23 <b>KKB 50.150</b>	7032	50	150	200	175	953172	60,0	1 p.
K23 <b>KKB 50.200</b>	7032	50	200	225	200	953189	70,0	1 p.
K23 <b>KKB 50.300</b>	7032	50	300	250	225	953196	134,8	1 p.

During the assembly, we recommend to support each end of fitting at each cable entry.

To ensure a correct installation, the couplers must be fixed laterally by 2 bolts M6x16 V4A on each tray end.



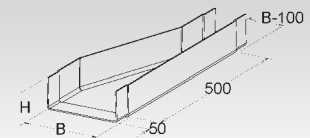
## GRP right hand reduction

pressed, with interlocking coupler

Item ref.	RAL colour	Height	Width B	EAN code	Weight 100 units pc	Min. pack.
		mm	mm			
K23 <b>KKRR 50.200</b>	7032	50	200	955022	90	1 p.
K23 <b>KKRR 50.300</b>	7032	50	300	955039	114	1 p.

During the assembly, every reducer must be supported at each end.

To ensure a correct installation, the couplers must be fixed laterally by 2 bolts M6x16 V4A on each tray end.



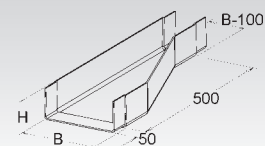
## GRP left hand reduction

pressed, with interlocking coupler

Item ref.	RAL colour	Height	Width B	EAN code	Weight 100 units pc	Min. pack.
		mm	mm			
K23 <b>KKRL 50.200</b>	7032	50	200	954919	90	1 p.
K23 <b>KKRL 50.300</b>	7032	50	300	954926	114	1 p.

During the assembly, every reducer must be supported at each end.

To ensure a correct installation, the couplers must be fixed laterally by 2 bolts M6x16 V4A on each tray end.



### GRP vertical splice plate

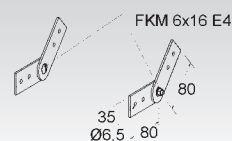
pressed, horizontal

Item ref.	RAL colour	Height mm	EAN code	Weight 100 units	Min. pack.
K23 <b>KKGV 50</b>	7032	35	955138	5	1 set

for the vertical connection of cable trays and fittings H50 with an angle adjustment.

**Need: 2 pieces for each cut**

Mounting accessories required : 4 bolts M6x20 V4A ( to be ordered separately )



### Stainless steel vertical splice plate V4A

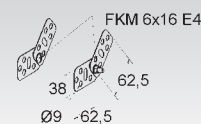
vertical

Item ref.	Height mm	EAN code	Weight 100 units	Min. pack.
E4 <b>KKIV 50 E4</b>	38	955169	3	1 set

for the horizontal connection of cable trays and fittings H50 mm and for the changes of directions.

**Need: 2 pieces for each cut**

Mounting accessories required : 4 bolts M6x16 V4A ( to be ordered separately )



### GRP changing elevation

pressed, with interlocking coupler

Item ref.	RAL colour	Height mm	Width B mm	Height H1 mm	Height H2 mm	Height H3 mm	EAN code	Weight 100 units pc	Min. pack.
K23 <b>KKET 50.100</b>	7032	50	100	160	480	800	954339	210	1 p.
K23 <b>KKET 50.150</b>	7032	50	150	160	480	800	954346	216	1 p.
K23 <b>KKET 50.200</b>	7032	50	200	160	480	800	954353	259	1 p.
K23 <b>KKET 50.300</b>	7032	50	300	160	480	800	954360	263	1 p.

**Composed with different pieces, the changing elevation can be mounted in different heights**

During the assembly, every fitting must be supported at each end and in the fitting center.

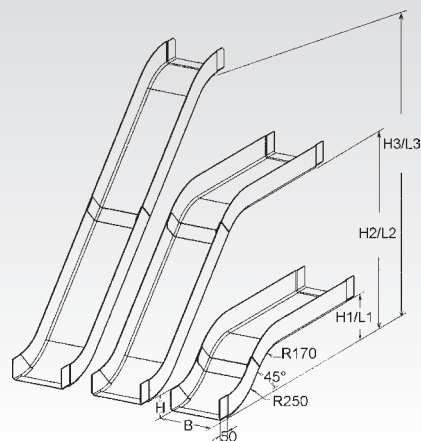
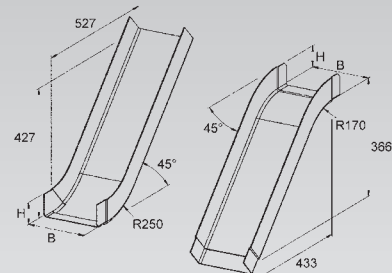
To ensure a correct installation, the couplers must be fixed laterally by 2 bolts M6x16 V4A on each tray end.

The part height depends on the height and the configuration used

H1 = 160 mm => L1 = 785 mm ( a cut is necessary )

H2 = 480 mm => L2 = 1100 mm

H3 = 800 mm => L3 = 970 mm



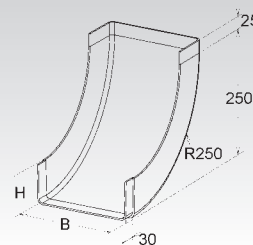
### GRP vertical inside elbow

pressed, with interlocking coupler

Item ref.	RAL colour	Height mm	Width B mm	EAN code	Weight 100 units pc	Min. pack.
K23 <b>KKBI 50.050</b>	7032	50	50	954025	11,7	1 p.
K23 <b>KKBI 50.100</b>	7032	50	100	954032	37,5	1 p.
K23 <b>KKBI 50.150</b>	7032	50	150	954049	61,0	1 p.
K23 <b>KKBI 50.200</b>	7032	50	200	954056	77,0	1 p.
K23 <b>KKBI 50.300</b>	7032	50	300	954063	90,9	1 p.

During the assembly, we recommend to support each end of fitting at each cable entry.

Mounting accessories required : 2 bolts M6x16 V4A ( to be ordered separately )





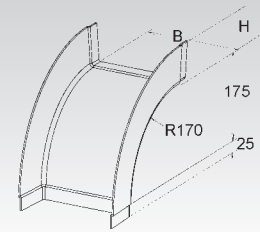
# CABLE TRAY SYSTEM K<sup>2</sup>

## GRP vertical outside elbow

pressed, with interlocking coupler

Item ref.	RAL colour	Height	Width B	EAN code	Weight 100 units pc	Min. pack.
		mm	mm			
K23 <b>KKBA 50.050</b>	7032	50	50	953837	11,5	1 p.
K23 <b>KKBA 50.100</b>	7032	50	100	953844	32,0	1 p.
K23 <b>KKBA 50.150</b>	7032	50	150	953851	34,9	1 p.
K23 <b>KKBA 50.200</b>	7032	50	200	953868	51,0	1 p.
K23 <b>KKBA 50.300</b>	7032	50	300	953875	74,0	1 p.

During the assembly, we recommend to support each end of fitting at each cable entry.  
To ensure a correct installation, the couplers must be fixed laterally by 2 bolts M6x16 V4A on each tray end.



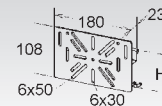
## Mounting plate

pressed, easy to install, with pre-mounted fixing clamps

Item ref.	RAL colour	Height	EAN code	Weight 100 units pc	Min. pack.
		mm			
E4 K23 <b>MP 50</b>	7032	50	963010	17	1 p.

for the installation of equipment or junction boxes

**The mounting plate is in GRP, only the mounting lug are in stainless steel V4A**



## GRP cable trays

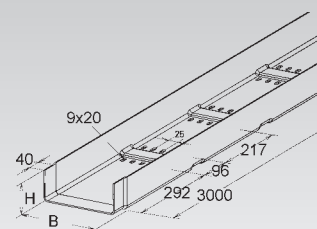
pressed, perforated, equipped with a shaped coupler, with reinforced sidewalls (5 mm)

Item ref.	RAL colour	Height	Width B	Admissible load F at L=1,5 m	Material thickness (th)	Operating cross cut	EAN code	Weight 100 units m	Min. pack.	
		mm	mm	kN/m	mm	mm <sup>2</sup>				
K23	KKL 80.100	7032	80	100	0,5	3	6500	952267	122,0	3 m
K23	KKL 80.150	7032	80	150	0,5	3	10200	952274	161,0	3 m
K23	KKL 80.200	7032	80	200	0,5	3	13900	952281	180,0	3 m
K23	KKL 80.250	7032	80	250	0,5	3	17600	952298	218,7	3 m
K23	KKL 80.300	7032	80	300	0,5	3	21300	952304	281,0	3 m
K23	KKL 80.400	7032	80	400	1,0	4	27600	952311	380,0	3 m
K23	KKL 80.500	7032	80	500	1,0	4	34800	952328	480,0	3 m
K23	KKL 80.600	7032	80	600	1,0	4	42000	952335	540,0	3 m

Thanks to the cable trays' straps it can be used for high frequency according to UTEC15-900 ( classe D, frequency 16 MHz).

L = support distance ( in m )

Warning : the deflection is measured with a junction position between 2 cable trays at a distance L/5 from the support. If this distance is not respected, it is necessary to raise the deflection values by approx. 30%.



## GRP cable trays

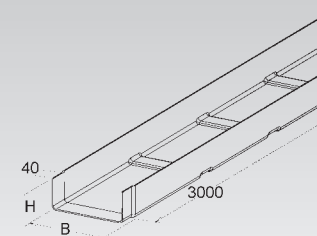
pressed, equipped with a shaped coupler, with reinforced sidewalls (5 mm)

Item ref.	RAL colour	Height	Width B	Admissible load F at L=1,5 m	Material thickness (th)	Operating cross cut	EAN code	Weight 100 units m	Min. pack.	
		mm	mm	kN/m	mm	mm <sup>2</sup>				
K23	KK 80.100	7032	80	100	0,5	3	6500	952069	127	3 m
K23	KK 80.150	7032	80	150	0,5	3	10200	952076	165	3 m
K23	KK 80.200	7032	80	200	0,5	3	13900	952083	195	3 m
K23	KK 80.250	7032	80	250	0,5	3	17600	952090	220	3 m
K23	KK 80.300	7032	80	300	0,5	3	21300	952106	230	3 m
K23	KK 80.400	7032	80	400	1,0	4	27600	952113	390	3 m
K23	KK 80.500	7032	80	500	1,0	4	34800	952120	460	3 m
K23	KK 80.600	7032	80	600	1,0	4	42000	952137	470	3 m

Thanks to the cable trays' straps it can be used for high frequency according to UTEC15-900 ( classe D, frequency 16 MHz).

L = support distance ( in m )

Warning : the deflection is measured with a junction position between 2 cable trays at a distance L/5 from the support. If this distance is not respected, it is necessary to raise the deflection values by approx. 30%.



## End cap for GRP cable tray

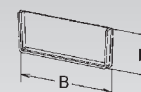
pressed

Item ref.	RAL colour	Height	Width B	EAN code	Weight 100 units pc	Min. pack.	
		mm	mm				
K23	KKKE 80.100	7032	80	100	955244	6,0	1 p.
K23	KKKE 80.150	7032	80	150	955251	9,0	1 p.
K23	KKKE 80.200	7032	80	200	955268	12,0	1 p.
K23	KKKE 80.250	7032	80	250	955275	14,0	1 p.
K23	KKKE 80.300	7032	80	300	955282	17,5	1 p.
K23	KKKE 80.400	7032	80	400	955299	21,0	1 p.
K23	KKKE 80.500	7032	80	500	955305	26,0	1 p.
K23	KKKE 80.600	7032	80	600	955312	35,0	1 p.

for the closing of the cable tray ends

Used for: Cable trays KK..., KKL... H80 mm

Mounting accessories required : 2 bolts M6x16 V4A ( to be ordered separately )



## GRP adjustable splice plate

pressed, horizontal

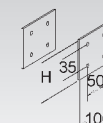
Item ref.	RAL colour	Height	EAN code	Weight 100 units	Min. pack.	
		mm				
K23	KKGH 80	7032	65	955633	3,7	1 set

for the horizontal connection of cable trays and fittings H80mm lengthwise

**Need: 2 pieces for each cut**

for the cable tray connection with an expansion joint

Mounting accessories required : 4 bolts M6x16 V4A ( to be ordered separately )



# CABLE TRAY SYSTEM K<sup>2</sup>

## Horizontal splice plate

horizontal

Item ref.	RAL colour	Height mm	EAN code	Weight 100 units	Min. pack.
<b>E4</b> <b>KKIH 80 E4</b>	7032	65	955664	3,6	1 set

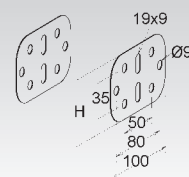
for the horizontal connection of cable trays and fittings H80 mm and for the changes of directions.

**Need: 2 pieces for each cut**

for the length adjustment, please leave a space between cable trays.

Mounting accessories required : 4 bolts M6x16 V4A ( to be ordered separately )

80



## GRP separator

pressed

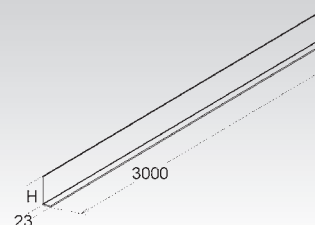
Item ref.	RAL colour	Height mm	EAN code	Weight 100 units m	Min. pack.
<b>K23</b> <b>KKT 80</b>	7032	67	953035	40	3 m
<b>K23</b> <b>KKT 80/M</b>	7032	67	953066	40	3 m

to separate cables with different functions and / or to separate voltages

**The divider KKT 80 is delivered not mounted, it can be fixed in the cable tray with a bolt M 6x16 V4A each meter.**

**The divider KKT80/M can be delivered pre-installed (riveted), the position inside the cable tray must be defined in the purchase order.**

80



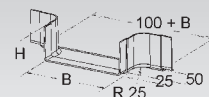
## GRP tee junction for cable tray, small radius

pressed, with interlocking coupler

Item ref.	RAL colour	Height mm	Width B mm	EAN code	Weight 100 units pc	Min. pack.
<b>K23</b> <b>KKSS 80.100</b>	7032	80	100	954834	18	1 p.
<b>K23</b> <b>KKSS 80.150</b>	7032	80	150	954841	27	1 p.
<b>K23</b> <b>KKSS 80.200</b>	7032	80	200	954858	22	1 p.
<b>K23</b> <b>KKSS 80.250</b>	7032	80	250	954865	28	1 p.
<b>K23</b> <b>KKSS 80.300</b>	7032	80	300	954872	32	1 p.

During the installation, you must take care to position a support at each cable tray end and to fix them with bolts M 6x16 V4A.

80



## GRP tee junction for cable tray, large radius

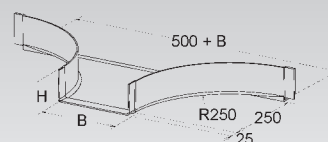
pressed, with interlocking coupler

Item ref.	RAL colour	Height mm	Width B mm	EAN code	Weight 100 units pc	Min. pack.
<b>K23</b> <b>KKST 80.100</b>	7032	80	100	954612	78,0	1 p.
<b>K23</b> <b>KKST 80.150</b>	7032	80	150	954629	88,0	1 p.
<b>K23</b> <b>KKST 80.200</b>	7032	80	200	954636	90,0	1 p.
<b>K23</b> <b>KKST 80.250</b>	7032	80	250	954643	101,0	1 p.
<b>K23</b> <b>KKST 80.300</b>	7032	80	300	954650	108,5	1 p.
<b>K23</b> <b>KKST 80.400</b>	7032	80	400	954667	130,0	1 p.
<b>K23</b> <b>KKST 80.500</b>	7032	80	500	954674	145,0	1 p.
<b>K23</b> <b>KKST 80.600</b>	7032	80	600	954681	164,0	1 p.

During assembly, all the fittings must be supported at every cables entry, add a centrale support for all fittings with radius greater than 250 mm, and/or with width greater than 400 mm

To ensure a correct installation, the couplers must be fixed laterally by 4 bolts M6x16 V4A on each tray end.

80



### Horizontal elbow 45°

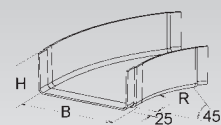
pressed, with interlocking coupler

Item ref.	RAL colour	Height	Width B	Radius R	EAN code	Weight 100 units pc	Min. pack.
		mm	mm	mm			
K23 <b>KKC 80.100</b>	7032	80	100	100	953448	22,0	1 p.
K23 <b>KKC 80.150</b>	7032	80	150	175	953455	29,5	1 p.
K23 <b>KKC 80.200</b>	7032	80	200	200	953462	50,0	1 p.
K23 <b>KKC 80.250</b>	7032	80	250	275	953479	70,0	1 p.
K23 <b>KKC 80.300</b>	7032	80	300	225	953486	100,0	1 p.
K23 <b>KKC 80.400</b>	7032	80	400	250	953493	151,0	1 p.
K23 <b>KKC 80.500</b>	7032	80	500	250	953509	280,0	1 p.
K23 <b>KKC 80.600</b>	7032	80	600	250	953516	300,0	1 p.

The piece is provided with a sleeve riveted on one side only.

During assembly, all the fittings must be supported at every cables entry, add a centrale support for all fittings with radius greater than 250 mm, and/or with width greater than 400 mm

To ensure a correct installation, the couplers must be fixed laterally by 2 bolts M6x16 V4A on each tray end.



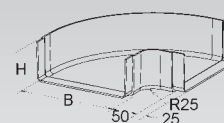
### Horizontal elbow 90°, small radius

pressed, with interlocking coupler

Item ref.	RAL colour	Height	Width B	EAN code	Weight 100 units pc	Min. pack.
		mm	mm			
K23 <b>KKW 80.100</b>	7032	80	100	953691	27	1 p.
K23 <b>KKW 80.150</b>	7032	80	150	953707	35	1 p.
K23 <b>KKW 80.200</b>	7032	80	200	953714	53	1 p.
K23 <b>KKW 80.250</b>	7032	80	250	953721	62	1 p.
K23 <b>KKW 80.300</b>	7032	80	300	953738	86	1 p.
K23 <b>KKW 80.400</b>	7032	80	400	953745	125	1 p.
K23 <b>KKW 80.500</b>	7032	80	500	953752	195	1 p.
K23 <b>KKW 80.600</b>	7032	80	600	953769	240	1 p.

During assembly, all the fittings must be supported at every cables entry, add a centrale support for all fittings with radius greater than 250 mm, and/or with width greater than 400 mm

To ensure a correct installation, the couplers must be fixed laterally by 2 bolts M6x16 V4A on each tray end.



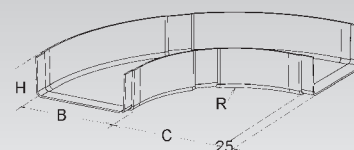
### Horizontal elbow 90°, large radius

pressed, with interlocking coupler

Item ref.	RAL colour	Height	Width B	C	Radius R	EAN code	Weight 100 units pc	Min. pack.
		mm	mm	mm	mm			
K23 <b>KKB 80.100</b>	7032	80	100	125	100	953202	41,5	1 p.
K23 <b>KKB 80.150</b>	7032	80	150	200	175	953219	43,5	1 p.
K23 <b>KKB 80.200</b>	7032	80	200	225	200	953226	90,0	1 p.
K23 <b>KKB 80.250</b>	7032	80	250	300	275	953233	146,5	1 p.
K23 <b>KKB 80.300</b>	7032	80	300	250	225	953240	170,0	1 p.
K23 <b>KKB 80.400</b>	7032	80	400	325	250	953257	272,0	1 p.
K23 <b>KKB 80.500</b>	7032	80	500	325	250	953264	377,0	1 p.
K23 <b>KKB 80.600</b>	7032	80	600	325	250	953271	442,0	1 p.

During assembly, all the fittings must be supported at every cables entry, add a centrale support for all fittings with radius greater than 250 mm, and/or with width greater than 400 mm

To ensure a correct installation, the couplers must be fixed laterally by 2 bolts M6x16 V4A on each tray end.



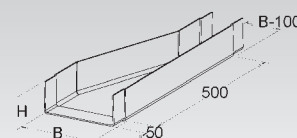
### GRP right hand reduction

pressed, with interlocking coupler

Item ref.	RAL colour	Height	Width B	EAN code	Weight 100 units pc	Min. pack.
		mm	mm			
K23 <b>KKRR 80.200</b>	7032	80	200	955046	92	1 p.
K23 <b>KKRR 80.300</b>	7032	80	300	955053	124	1 p.
K23 <b>KKRR 80.400</b>	7032	80	400	955060	165	1 p.
K23 <b>KKRR 80.500</b>	7032	80	500	955077	190	1 p.
K23 <b>KKRR 80.600</b>	7032	80	600	955084	220	1 p.

During the assembly, every reducer must be supported at each end.

To ensure a correct installation, the couplers must be fixed laterally by 2 bolts M6x16 V4A on each tray end.



# CABLE TRAY SYSTEM K<sup>2</sup>

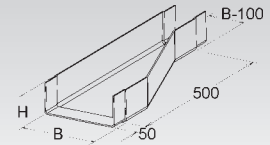
## GRP left hand reducer

pressed, with interlocking coupler

Item ref.	RAL colour	Height	Width B	EAN code	Weight 100 units pc	Min. pack.
		mm	mm			
K23 <b>KKRL 80.200</b>	7032	80	200	954933	92	1 p.
K23 <b>KKRL 80.300</b>	7032	80	300	954940	114	1 p.
K23 <b>KKRL 80.400</b>	7032	80	400	954957	163	1 p.
K23 <b>KKRL 80.500</b>	7032	80	500	954964	184	1 p.
K23 <b>KKRL 80.600</b>	7032	80	600	954971	220	1 p.

During the assembly, every reducer must be supported at each end.

To ensure a correct installation, the couplers must be fixed laterally by 2 bolts M6x16 V4A on each tray end.



## GRP vertical splice plate

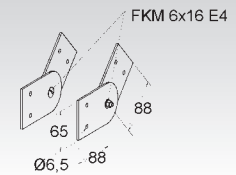
pressed, vertical

Item ref.	RAL colour	Height	EAN code	Weight 100 units	Min. pack.
		mm			
K23 <b>KKGV 80</b>	7032	65	955145	9	1 set

for the vertical connection of cable trays and fittings H80 with an angle adjustment.

**Need: 2 pieces for each cut**

Mounting accessories required : 4 bolts M6x20 V4A ( to be ordered separately )



## Stainless steel vertical splice plate V4A

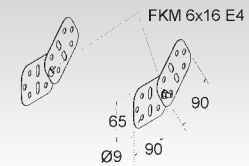
vertical

Item ref.	Height	EAN code	Weight 100 units	Min. pack.
	mm			
E4 <b>KKIV 80 E4</b>	65	955176	8	1 set

for the horizontal connection of cable trays and fittings H80 mm and for the changes of directions.

**Need: 2 pieces for each cut**

Mounting accessories required : 4 bolts M6x16 V4A ( to be ordered separately )



## GRP changing elevation

pressed, with interlocking coupler

Item ref.	RAL colour	Height	Width B	Height H1	Height H2	Height H3	EAN code	Weight 100 units pc	Min. pack.
		mm	mm	mm	mm	mm			
K23 <b>KKET 80.100</b>	7032	80	100	160	480	800	954377	190	1 p.
K23 <b>KKET 80.150</b>	7032	80	150	160	480	800	954384	250	1 p.
K23 <b>KKET 80.200</b>	7032	80	200	160	480	800	954391	259	1 p.
K23 <b>KKET 80.250</b>	7032	80	250	160	480	800	954407	340	1 p.
K23 <b>KKET 80.300</b>	7032	80	300	160	480	800	954414	344	1 p.
K23 <b>KKET 80.400</b>	7032	80	400	160	480	800	954421	420	1 p.
K23 <b>KKET 80.500</b>	7032	80	500	160	480	800	954438	500	1 p.
K23 <b>KKET 80.600</b>	7032	80	600	160	480	800	954445	596	1 p.

**Composed with different pieces, the changing elevation can be mounted in different heights**

During assembly, all the fittings must be supported at every cables entry, add a centrale support for all fittings with radius greater than 250 mm, and/or with width greater than 400 mm

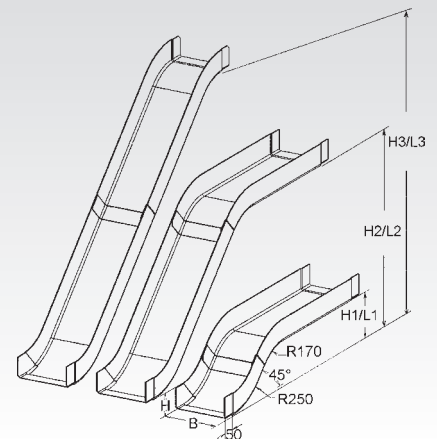
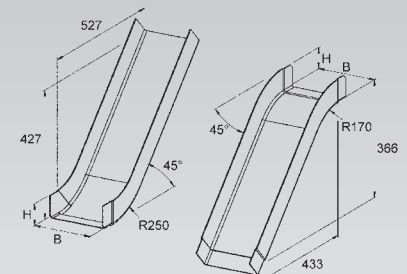
To ensure a correct installation, the couplers must be fixed laterally by 2 bolts M6x16 V4A on each tray end.

The part height depends on the height and the configuration used

H1 = 160 mm => L1 = 785 mm ( a cut is necessary )

H2 = 480 mm => L2 = 1100 mm

H3 = 800 mm => L3 = 970 mm

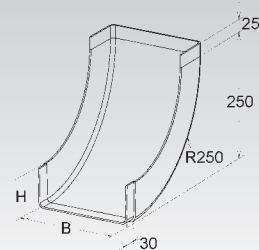




### GRP vertical inside elbow

pressed, with interlocking coupler

Item ref.	RAL colour	Height	Width B	EAN code	Weight 100 units pc	Min. pack.
		mm	mm			
K23 <b>KKBI 80.100</b>	7032	80	100	954070	53	1 p.
K23 <b>KKBI 80.150</b>	7032	80	150	954087	64	1 p.
K23 <b>KKBI 80.200</b>	7032	80	200	954094	75	1 p.
K23 <b>KKBI 80.250</b>	7032	80	250	954100	90	1 p.
K23 <b>KKBI 80.300</b>	7032	80	300	954117	102	1 p.
K23 <b>KKBI 80.400</b>	7032	80	400	954124	123	1 p.
K23 <b>KKBI 80.500</b>	7032	80	500	954131	145	1 p.
K23 <b>KKBI 80.600</b>	7032	80	600	954148	170	1 p.

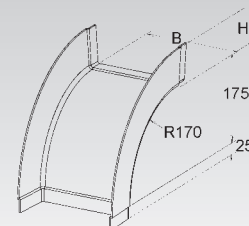


During the assembly, we recommend to support each end of fitting at each cable entry. To ensure a correct installation, the couplers must be fixed laterally by 2 bolts M6x16 V4A on each tray end.

### GRP vertical outside elbow

pressed, with interlocking coupler

Item ref.	RAL colour	Height	Width B	EAN code	Weight 100 units pc	Min. pack.
		mm	mm			
K23 <b>KKBA 80.100</b>	7032	80	100	953882	46	1 p.
K23 <b>KKBA 80.150</b>	7032	80	150	953899	55	1 p.
K23 <b>KKBA 80.200</b>	7032	80	200	953905	62	1 p.
K23 <b>KKBA 80.250</b>	7032	80	250	953912	73	1 p.
K23 <b>KKBA 80.300</b>	7032	80	300	953929	74	1 p.
K23 <b>KKBA 80.400</b>	7032	80	400	953936	100	1 p.
K23 <b>KKBA 80.500</b>	7032	80	500	953943	113	1 p.
K23 <b>KKBA 80.600</b>	7032	80	600	953950	134	1 p.

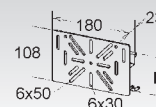


During the assembly, we recommend to support each end of fitting at each cable entry. To ensure a correct installation, the couplers must be fixed laterally by 2 bolts M6x16 V4A on each tray end.

### Mounting plate

pressed, easy to install, with pre-mounted fixing clamps

Item ref.	RAL colour	Height	EAN code	Weight 100 units pc	Min. pack.
		mm			
E4 K23 <b>MP 80</b>	7032	80	963027	17	1 p.



for the installation of equipment or junction boxes

The mounting plate is in GRP, only the mounting lug are in stainless steel V4A

# CABLE TRAY SYSTEM K<sup>2</sup>

## GRP cable trays

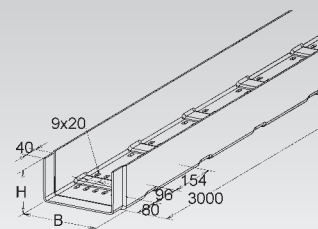
pressed, perforated, equipped with a shaped coupler, with reinforced sidewalls (5 mm)

Item ref.	RAL colour	Height	Width B	Admissible load F at L=1,5 m kN/m	Material thickness (th) mm	Operating cross cut mm <sup>2</sup>	EAN code	Weight 100 units m	Min. pack.
K23 KKL 110.100	7032	110	100	1,2	4	8500	952342	230	3 m
K23 KKL 110.200	7032	110	200	1,2	4	18800	952359	300	3 m
K23 KKL 110.300	7032	110	300	1,2	4	29100	952366	370	3 m
K23 KKL 110.400	7032	110	400	1,2	4	39400	952373	440	3 m
K23 KKL 110.500	7032	110	500	1,2	4	49700	952380	510	3 m
K23 KKL 110.600	7032	110	600	1,2	4	60000	952397	580	3 m

Thanks to the cable trays' straps it can be used for high frequency according to UTEC15-900 ( classe D, frequency 16 MHz).

L = support distance ( in m )

Warning : the deflection is measured with a junction position between 2 cable trays at a distance L/5 from the support. If this distance is not respected, it is necessary to raise the deflection values by approx. 30%.



## GRP cable trays

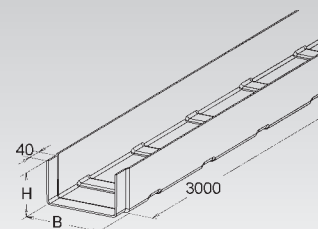
pressed, equipped with a shaped coupler, with reinforced sidewalls (5 mm)

Item ref.	RAL colour	Height	Width B	Admissible load F at L=1,5 m kN/m	Material thickness (th) mm	Operating cross cut mm <sup>2</sup>	EAN code	Weight 100 units m	Min. pack.
K23 KK 110.100	7032	110	100	1,2	4	8500	952144	230	3 m
K23 KK 110.200	7032	110	200	1,2	4	18800	952151	300	3 m
K23 KK 110.300	7032	110	300	1,2	4	29100	952168	380	3 m
K23 KK 110.400	7032	110	400	1,2	4	39400	952175	450	3 m
K23 KK 110.500	7032	110	500	1,2	4	49700	952182	520	3 m
K23 KK 110.600	7032	110	600	1,2	4	60000	952199	600	3 m

Thanks to the cable trays' straps it can be used for high frequency according to UTEC15-900 ( classe D, frequency 16 MHz).

L = support distance ( in m )

Warning : the deflection is measured with a junction position between 2 cable trays at a distance L/5 from the support. If this distance is not respected, it is necessary to raise the deflection values by approx. 30%.



## End cap for GRP cable tray

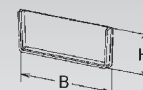
pressed

Item ref.	RAL colour	Height	Width B	EAN code	Weight 100 units pc	Min. pack.
K23 KKKE 110.100	7032	110	100	955329	10	1 p.
K23 KKKE 110.200	7032	110	200	955336	13	1 p.
K23 KKKE 110.300	7032	110	300	955343	18	1 p.
K23 KKKE 110.400	7032	110	400	955350	22	1 p.
K23 KKKE 110.500	7032	110	500	955367	27	1 p.
K23 KKKE 110.600	7032	110	600	955374	26	1 p.

for the closing of the cable tray ends

Used for: Cable trays KK..., KKL... H110 mm

Mounting accessories required : 2 bolts M6x16 V4A ( to be ordered separately )



## GRP adjustable splice plate

pressed, horizontal

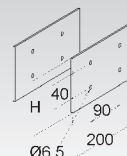
Item ref.	RAL colour	Height	EAN code	Weight 100 units	Min. pack.
K23 KKGH 110	7032	89	955640	2	1 set

for the horizontal connection of cable trays and fittings H110 mm lengthwise

Need: 2 pieces for each cut

for the cable tray connection with an expansion joint

Mounting accessories required : 4 bolts M6x20 V4A ( to be ordered separately )



## Horizontal splice plate

horizontal

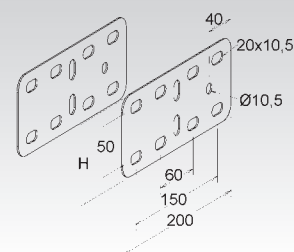
Item ref.	Height mm	EAN code	Weight 100 units	Min. pack.
<b>E4 KKIH 110 E4</b>	80	955671	16,6	1 set

**Need: 2 pieces for each cut**

for the length adjustment, please leave a space between cable trays.

Mounting accessories required : 4 bolts M6x16 V4A ( to be ordered separately )

110



## GRP separator

pressed

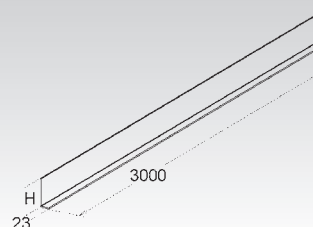
Item ref.	RAL colour	Height mm	EAN code	Weight 100 units pc/m	Min. pack.
<b>K23 KKT 110</b>	7032	102	953042	40	3 m
<b>K23 KKT 110/M</b>	7032	102	953073	40	3 m

to separate cables with different functions and / or to separate voltages

**The divider KKT 110 is delivered not mounted, it can be fixed in the cable tray with a bolt M 6x16 V4A each meter.**

**The divider KKT110/M can be delivered pre-mounted ( riveted ), the position inside the cable tray must be defined in the purchase order.**

110



## GRP tee junction for cable tray, large radius

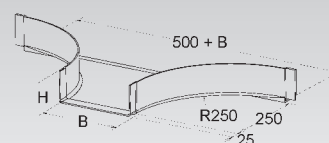
pressed, with interlocking coupler

Item ref.	RAL colour	Height mm	Width B mm	EAN code	Weight 100 units pc	Min. pack.
<b>K23 KKST 110.100</b>	7032	110	100	954698	78,0	1 p.
<b>K23 KKST 110.200</b>	7032	110	200	954704	120,0	1 p.
<b>K23 KKST 110.300</b>	7032	110	300	954711	128,5	1 p.
<b>K23 KKST 110.400</b>	7032	110	400	954728	200,0	1 p.
<b>K23 KKST 110.500</b>	7032	110	500	954735	170,0	1 p.
<b>K23 KKST 110.600</b>	7032	110	600	954742	190,0	1 p.

During assembly, all the fittings must be supported at every cables entry, add a centrale support for all fittings with radius greater than 250 mm, and/or with width greater than 400 mm

To ensure a correct installation, the couplers must be fixed laterally by 4 bolts M6x16 V4A on each tray end.

110



## Horizontal elbow 45°

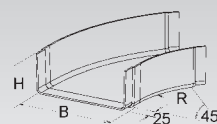
pressed, with interlocking coupler

Item ref.	RAL colour	Height mm	Width B mm	Radius R mm	EAN code	Weight 100 units pc	Min. pack.
<b>K23 KKC 110.100</b>	7032	110	100	200	953523	22,0	1 p.
<b>K23 KKC 110.200</b>	7032	110	200	200	953530	65,0	1 p.
<b>K23 KKC 110.300</b>	7032	110	300	225	953547	108,5	1 p.
<b>K23 KKC 110.400</b>	7032	110	400	250	953554	197,0	1 p.
<b>K23 KKC 110.500</b>	7032	110	500	250	953561	313,0	1 p.
<b>K23 KKC 110.600</b>	7032	110	600	250	953578	342,0	1 p.

**The piece is provided with a sleeve riveted on one side only.**

During assembly, all the fittings must be supported at every cables entry, add a centrale support for all fittings with radius greater than 250 mm, and/or with width greater than 400 mm

110



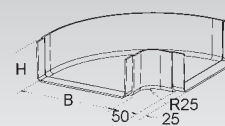
## Horizontal elbow 90°, small radius

pressed, with interlocking coupler

Item ref.	RAL colour	Height mm	Width B mm	EAN code	Weight 100 units pc/m	Min. pack.
<b>K23 KKW 110.100</b>	7032	110	100	953776	40	1 p.
<b>K23 KKW 110.200</b>	7032	110	200	953783	70	1 p.
<b>K23 KKW 110.300</b>	7032	110	300	953790	86	1 p.
<b>K23 KKW 110.400</b>	7032	110	400	953806	125	1 p.
<b>K23 KKW 110.500</b>	7032	110	500	953813	195	1 p.
<b>K23 KKW 110.600</b>	7032	110	600	953820	240	1 p.

During assembly, all the fittings must be supported at every cables entry, add a centrale support for all fittings with radius greater than 250 mm, and/or with width greater than 400 mm

110



# CABLE TRAY SYSTEM K<sup>2</sup>

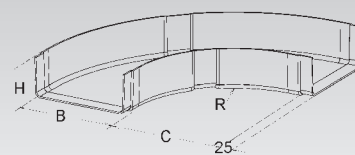
## Horizontal elbow 90°, large radius

pressed, with interlocking coupler

Item ref.	RAL colour	Height	Width B	C	Radius R	EAN code	Weight 100 units pc	Min. pack.
		mm	mm	mm	mm			
K23 <b>KKB 110.100</b>	7032	110	100	125	100	953288	98,0	1 p.
K23 <b>KKB 110.200</b>	7032	110	200	225	200	953295	132,5	1 p.
K23 <b>KKB 110.300</b>	7032	110	300	250	225	953301	217,0	1 p.
K23 <b>KKB 110.400</b>	7032	110	400	325	250	953318	360,0	1 p.
K23 <b>KKB 110.500</b>	7032	110	500	325	250	953325	490,0	1 p.
K23 <b>KKB 110.600</b>	7032	110	600	325	250	953332	434,0	1 p.

During assembly, all the fittings must be supported at every cables entry, add a centrale support for all fittings with radius greater than 250 mm, and/or with width greater than 400 mm

To ensure a correct installation, the couplers must be fixed laterally by 2 bolts M6x16 V4A on each tray end.



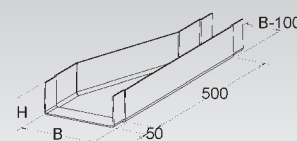
## GRP right hand reduction

pressed, with interlocking coupler

Item ref.	RAL colour	Height	Width B	EAN code	Weight 100 units pc	Min. pack.
		mm	mm			
K23 <b>KKRR 110.200</b>	7032	110	200	962549	100	1 p.
K23 <b>KKRR 110.300</b>	7032	110	300	955091	124	1 p.
K23 <b>KKRR 110.400</b>	7032	110	400	955107	160	1 p.
K23 <b>KKRR 110.500</b>	7032	110	500	955114	180	1 p.
K23 <b>KKRR 110.600</b>	7032	110	600	955121	240	1 p.

During the assembly, every fitting must be supported at each end, at the cable entry.

To ensure a correct installation, the couplers must be fixed laterally by 2 bolts M6x16 V4A on each tray end.



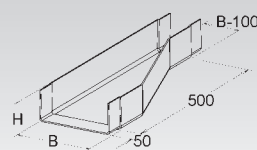
## GRP left hand reduction

pressed, with interlocking coupler

Item ref.	RAL colour	Height	Width B	Covers length	EAN code	Weight 100 units pc/m	Min. pack.
		mm	mm	mm			
K23 <b>KKRL 110.200</b>	7032	110	200	500	962532	100	1 p.
K23 <b>KKRL 110.300</b>	7032	110	300	500	954988	124	1 p.
K23 <b>KKRL 110.400</b>	7032	110	400	500	954995	200	1 p.
K23 <b>KKRL 110.500</b>	7032	110	500	500	955008	195	1 p.
K23 <b>KKRL 110.600</b>	7032	110	600	500	955015	220	1 p.

During the assembly, we recommend to support each end of fitting at each cable entry.

To ensure a correct installation, the couplers must be fixed laterally by 2 bolts M6x16 V4A on each tray end.



## GRP vertical splice plate

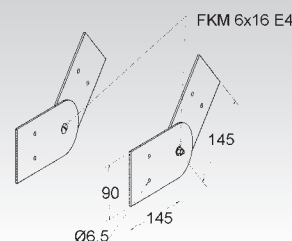
pressed, vertical

Item ref.	RAL colour	Height	EAN code	Weight 100 units	Min. pack.
		mm			
K23 <b>KKGV 110</b>	7032	90	955152	19	1 set

for the vertical connection of cable trays and fittings H110 with an angle adjustment.

**Need: 2 pieces for each cut**

Mounting accessories required : 4 bolts M6x20 V4A ( to be ordered separately )



## Stainless steel vertical splice plate V4A

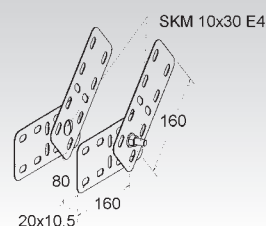
vertical, stainless steel

Item ref.	Height	EAN code	Weight 100 units	Min. pack.
	mm			
E4 <b>KKIV 110 E4</b>	80	955183	36	1 set

for the horizontal connection of cable trays and fittings H110 mm and for the changes of directions.

**Need: 2 pieces for each cut**

Mounting accessories required : 4 bolts M6x16 V4A ( to be ordered separately )



## GRP changing elevation

pressed, with interlocking coupler

Item ref.	RAL colour	Height	Width B	Height H1	Height H2	Height H3	EAN code	Weight 100 units pc	Min. pack.
		mm	mm	mm	mm	mm			
K23 <b>KKET 110.100</b>	7032	110	100	160	480	800	954452	190	1 p.
K23 <b>KKET 110.200</b>	7032	110	200	160	480	800	954469	210	1 p.
K23 <b>KKET 110.300</b>	7032	110	300	160	480	800	954476	344	1 p.
K23 <b>KKET 110.400</b>	7032	110	400	160	480	800	954483	420	1 p.
K23 <b>KKET 110.500</b>	7032	110	500	160	480	800	954490	480	1 p.
K23 <b>KKET 110.600</b>	7032	110	600	160	480	800	954506	596	1 p.

Composed with different pieces, the changing elevation can be mounted in different heights

During assembly, all the fittings must be supported at every cables entry, add a centrale support for all fittings with radius greater than 250 mm, and/or with width greater than 400 mm

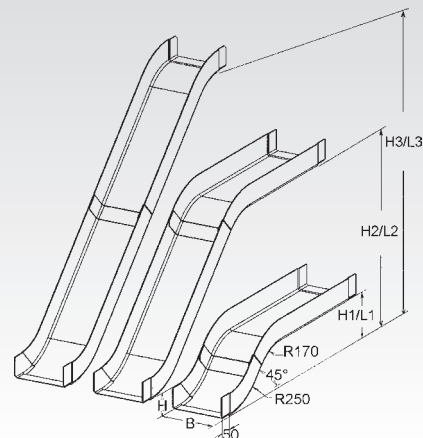
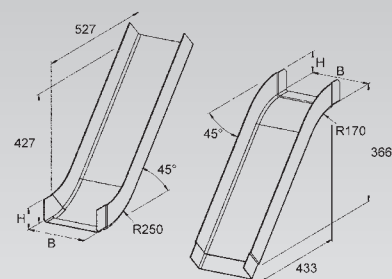
To ensure a correct installation, the couplers must be fixed laterally by 2 bolts M6x16 V4A on each tray end.

The part height depends on the height and the configuration used

H1 = 160 mm => L1 = 785 mm ( a cut is necessary )

H2 = 480 mm => L2 = 1100 mm

H3 = 800 mm => L3 = 970 mm



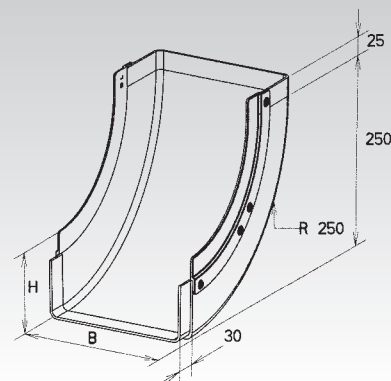
## GRP vertical inside elbow

pressed, with interlocking coupler

Item ref.	RAL colour	Height	Width B	EAN code	Weight 100 units pc	Min. pack.
		mm	mm			
K23 <b>KKBI 110.100</b>	7032	110	100	954155	53	1 p.
K23 <b>KKBI 110.200</b>	7032	110	200	954162	100	1 p.
K23 <b>KKBI 110.300</b>	7032	110	300	954179	123	1 p.
K23 <b>KKBI 110.400</b>	7032	110	400	954186	143	1 p.
K23 <b>KKBI 110.500</b>	7032	110	500	954193	175	1 p.
K23 <b>KKBI 110.600</b>	7032	110	600	954209	170	1 p.

During assembly, all the fittings must be supported at every cables entry, add a centrale support for all fittings with radius greater than 250 mm, and/or with width greater than 400 mm

To ensure a correct installation, the couplers must be fixed laterally by 2 bolts M6x16 V4A on each tray end.



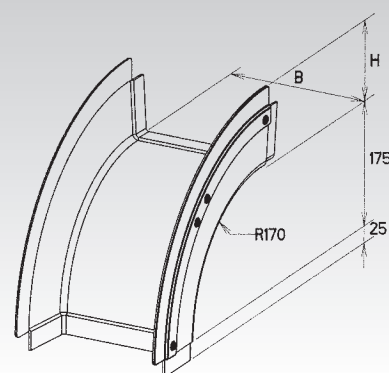
## GRP vertical outside elbow

pressed, with interlocking coupler

Item ref.	RAL colour	Height	Width B	EAN code	Weight 100 units pc	Min. pack.
		mm	mm			
K23 <b>KKBA 110.100</b>	7032	110	100	953967	46	1 p.
K23 <b>KKBA 110.200</b>	7032	110	200	953974	82	1 p.
K23 <b>KKBA 110.300</b>	7032	110	300	953981	110	1 p.
K23 <b>KKBA 110.400</b>	7032	110	400	953998	130	1 p.
K23 <b>KKBA 110.500</b>	7032	110	500	954001	205	1 p.
K23 <b>KKBA 110.600</b>	7032	110	600	954018	138	1 p.

During assembly, all the fittings must be supported at every cables entry, add a centrale support for all fittings with radius greater than 250 mm, and/or with width greater than 400 mm

To ensure a correct installation, the couplers must be fixed laterally by 2 bolts M6x16 V4A on each tray end.





# CABLE TRAY SYSTEM K<sup>2</sup>

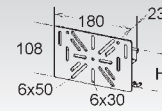
## Mounting plate

pressed, easy to install, with pre-mounted fixing clamps

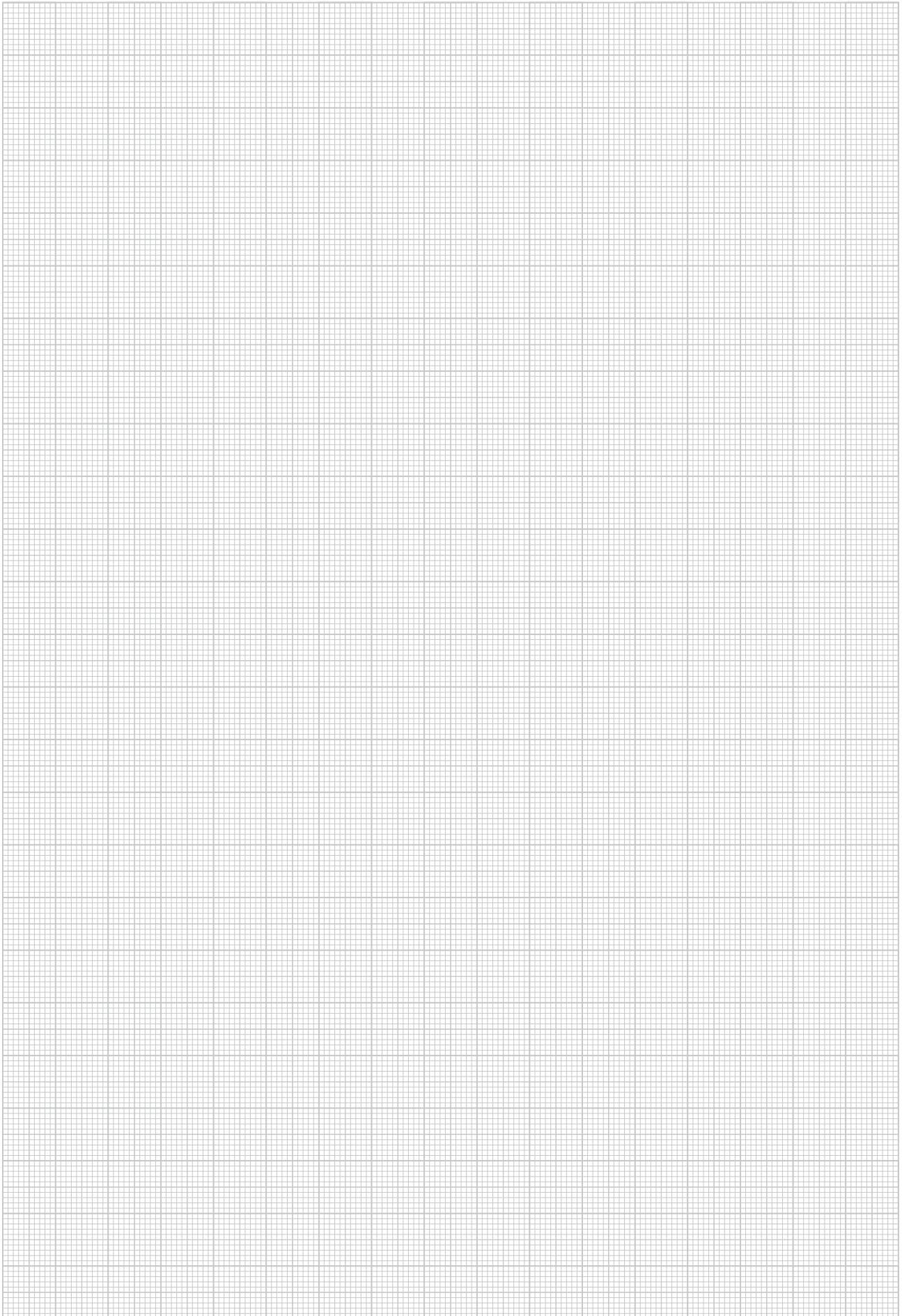
Item ref.	RAL colour	Height mm	EAN code	Weight 100 units pc	Min. pack.
E4 K23 MP 110	7032	110	963034	17	1 p.

for the installation of equipment or junction boxes

The mounting plate is in GRP, only the mounting lug are in stainless steel V4A



# NOTES



# CABLE TRAY SYSTEM COVERS K<sup>2</sup>

## Cover for cable trays and cable ladders

pressed

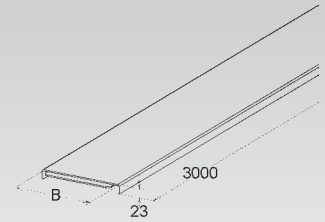
Item ref.	RAL colour	Width B mm	EAN code	Weight 100 units pc	Min. pack.
K23 <b>KKD 100</b>	7032	100	956111	78	3 m
K23 <b>KKD 150</b>	7032	150	956128	105	3 m
K23 <b>KKD 200</b>	7032	200	956135	132	3 m
K23 <b>KKD 250</b>	7032	250	956142	152	3 m
K23 <b>KKD 300</b>	7032	300	956159	190	3 m
K23 <b>KKD 400</b>	7032	400	956166	243	3 m
K23 <b>KKD 500</b>	7032	500	956180	292	3 m
K23 <b>KKD 600</b>	7032	600	956197	338	3 m

For a stronger assembly, the covers with a width above 400 mm are strengthened. These strengthenings / ribs are visible on the outside face of the part.

Used for: Cable tray H50, H80 and H110 mm, KK..., KKL... and cable ladder UL...H53, H80, H100 and H150 mm

For a strong and compliant assembly, we recommend to leave a minimum distance of 8 mm between the covers and the sidewalls of cable trays.

Covers are attached by using stainless steel cover clips DF...V4A, DF M... and DFUB... In extreme weather conditions, strong winds, storms for example, the quantity of clips must be increased.



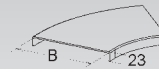
## GRP cover for horizontal elbow 45°, small radius

pressed

Item ref.	RAL colour	Width B mm	EAN code	Weight 100 units pc	Min. pack.
K23 <b>KKCD 100</b>	7032	100	956456	12	1 p.
K23 <b>KKCD 150</b>	7032	150	956463	23	1 p.
K23 <b>KKCD 200</b>	7032	200	956470	33	1 p.
K23 <b>KKCD 250</b>	7032	250	956487	50	1 p.
K23 <b>KKCD 300</b>	7032	300	956494	51	1 p.
K23 <b>KKCD 400</b>	7032	400	956500	138	1 p.
K23 <b>KKCD 500</b>	7032	500	956517	150	1 p.
K23 <b>KKCD 600</b>	7032	600	956524	173	1 p.

Used for: Elbow 45° H50, H80 and H110 mm, KKC... and KPC.../P

Covers are attached by using stainless steel cover clips DF...V4A, DF M... and DFUB... In extreme weather conditions, strong winds, storms for example, the quantity of clips must be increased.



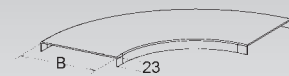
## Cover for horizontal elbow 90°, large radius

pressed

Item ref.	RAL colour	Width B mm	EAN code	Weight 100 units pc	Min. pack.
K23 <b>KKBD 100</b>	7032	100	956371	19,5	1 p.
K23 <b>KKBD 150</b>	7032	150	956388	43,0	1 p.
K23 <b>KKBD 200</b>	7032	200	956395	68,0	1 p.
K23 <b>KKBD 250</b>	7032	250	956401	97,0	1 p.
K23 <b>KKBD 300</b>	7032	300	956418	115,0	1 p.
K23 <b>KKBD 400</b>	7032	400	956425	241,0	1 p.
K23 <b>KKBD 500</b>	7032	500	956432	334,0	1 p.
K23 <b>KKBD 600</b>	7032	600	956449	403,0	1 p.

Used for: Horizontal elbow 90°, large radius, H50, H80 and H110, KKB... and KPB.../P

Covers are attached by using stainless steel cover clips DF...V4A, DF M... and DFUB... In extreme weather conditions, strong winds, storms for example, the quantity of clips must be increased.



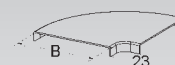
### Cover for horizontal elbow 90°, small radius

pressed

Item ref.	RAL colour	Width B mm	EAN code	Weight 100 units pc	Min. pack.
K23 <b>KKWD 50</b>	7032	50	956531	6,0	1 p.
K23 <b>KKWD 100</b>	7032	100	956548	11,5	1 p.
K23 <b>KKWD 150</b>	7032	150	956555	21,0	1 p.
K23 <b>KKWD 200</b>	7032	200	956562	31,0	1 p.
K23 <b>KKWD 250</b>	7032	250	956579	41,5	1 p.
K23 <b>KKWD 300</b>	7032	300	956586	60,0	1 p.
K23 <b>KKWD 400</b>	7032	400	956593	93,0	1 p.
K23 <b>KKWD 500</b>	7032	500	956609	125,0	1 p.
K23 <b>KKWD 600</b>	7032	600	956616	187,0	1 p.

Used for: Horizontal elbow 90°, H50, H80 and H110, KKW...

Covers are attached by using stainless steel cover clips DF...V4A, DF M... and DFUB... In extreme weather conditions, strong winds, storms for example, the quantity of clips must be increased.



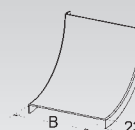
### GRP cover for vertical inside elbow

pressed

Item ref.	RAL colour	Height mm	Width B mm	EAN code	Weight 100 units pc	Min. pack.
K23 <b>KKBID 50.050</b>	7032	50	50	956814	5	1 p.
K23 <b>KKBID 50.100</b>	7032	50	100	956821	20	1 p.
K23 <b>KKBID 50.150</b>	7032	50	150	956838	42	1 p.
K23 <b>KKBID 50.200</b>	7032	50	200	956845	50	1 p.
K23 <b>KKBID 50.300</b>	7032	50	300	956852	63	1 p.

Used for: Vertical inside elbow 50 mm high, KKBID... and KPBI.../P

Covers are attached by using stainless steel cover clips DF...V4A, DF M... and DFUB... In extreme weather conditions, strong winds, storms for example, the quantity of clips must be increased.



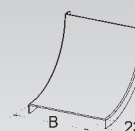
### GRP cover for vertical inside elbow

pressed

Item ref.	RAL colour	Height mm	Width B mm	EAN code	Weight 100 units pc	Min. pack.
K23 <b>KKBID 80.100</b>	7032	80	100	956869	18,0	1 p.
K23 <b>KKBID 80.150</b>	7032	80	150	956876	24,5	1 p.
K23 <b>KKBID 80.200</b>	7032	80	200	956883	33,0	1 p.
K23 <b>KKBID 80.250</b>	7032	80	250	956890	40,0	1 p.
K23 <b>KKBID 80.300</b>	7032	80	300	956906	45,5	1 p.
K23 <b>KKBID 80.400</b>	7032	80	400	956913	61,0	1 p.
K23 <b>KKBID 80.500</b>	7032	80	500	956920	73,0	1 p.
K23 <b>KKBID 80.600</b>	7032	80	600	956937	95,0	1 p.

Used for: Vertical inside elbow 80 mm high, KKBID... and KPBI.../P

Covers are attached by using stainless steel cover clips DF...V4A, DF M... and DFUB... In extreme weather conditions, strong winds, storms for example, the quantity of clips must be increased.



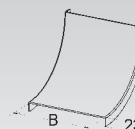
### GRP cover for vertical inside elbow

pressed

Item ref.	RAL colour	Height mm	Width B mm	EAN code	Weight 100 units pc	Min. pack.
K23 <b>KKBID 110.100</b>	7032	110	100	956944	18	1 p.
K23 <b>KKBID 110.200</b>	7032	110	200	956951	30	1 p.
K23 <b>KKBID 110.300</b>	7032	110	300	956968	50	1 p.
K23 <b>KKBID 110.400</b>	7032	110	400	956975	100	1 p.
K23 <b>KKBID 110.500</b>	7032	110	500	956982	120	1 p.
K23 <b>KKBID 110.600</b>	7032	110	600	956999	130	1 p.

Used for: Vertical inside elbow 110 mm high, KKBID... and KPBI.../P

Covers are attached by using stainless steel cover clips DF...V4A, DF M... and DFUB... In extreme weather conditions, strong winds, storms for example, the quantity of clips must be increased.



# CABLE TRAY SYSTEM COVERS K<sup>2</sup>

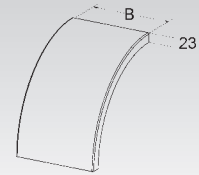
## GRP cover for vertical outside elbow

pressed

Item ref.	RAL colour	Height mm	Width B mm	EAN code	Weight 100 units pc	Min. pack.
K23 <b>KKBAD 50.050</b>	7032	50	50	956623	7,8	1 p.
K23 <b>KKBAD 50.100</b>	7032	50	100	956630	10,0	1 p.
K23 <b>KKBAD 50.150</b>	7032	50	150	956647	42,0	1 p.
K23 <b>KKBAD 50.200</b>	7032	50	200	956654	51,0	1 p.
K23 <b>KKBAD 50.300</b>	7032	50	300	956661	65,0	1 p.

Used for: Vertical outside elbow H50 mm, KKBA... and KPBA.../P

Covers are attached by using stainless steel cover clips DF...V4A, DF M... and DFUB... In extreme weather conditions, strong winds, storms for example, the quantity of clips must be increased.



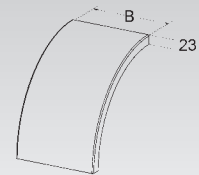
## GRP cover for vertical outside elbow

pressed

Item ref.	RAL colour	Height mm	Width B mm	EAN code	Weight 100 units pc	Min. pack.
K23 <b>KKBAD 80.100</b>	7032	80	100	956678	29,5	1 p.
K23 <b>KKBAD 80.150</b>	7032	80	150	956685	39,0	1 p.
K23 <b>KKBAD 80.200</b>	7032	80	200	956692	51,0	1 p.
K23 <b>KKBAD 80.250</b>	7032	80	250	956708	61,0	1 p.
K23 <b>KKBAD 80.300</b>	7032	80	300	956715	72,0	1 p.
K23 <b>KKBAD 80.400</b>	7032	80	400	956722	90,0	1 p.
K23 <b>KKBAD 80.500</b>	7032	80	500	956739	120,0	1 p.
K23 <b>KKBAD 80.600</b>	7032	80	600	956746	136,0	1 p.

Used for: Vertical outside elbow H80 mm, KKBA... and KPBA.../P

Covers are attached by using stainless steel cover clips DF...V4A, DF M... and DFUB... In extreme weather conditions, strong winds, storms for example, the quantity of clips must be increased.



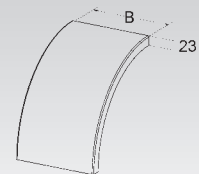
## GRP cover for vertical outside elbow

pressed

Item ref.	RAL colour	Height mm	Width B mm	EAN code	Weight 100 units pc	Min. pack.
K23 <b>KKBAD 110.100</b>	7032	110	100	956753	35	1 p.
K23 <b>KKBAD 110.200</b>	7032	110	200	956760	50	1 p.
K23 <b>KKBAD 110.300</b>	7032	110	300	956777	70	1 p.
K23 <b>KKBAD 110.400</b>	7032	110	400	956784	80	1 p.
K23 <b>KKBAD 110.500</b>	7032	110	500	956791	120	1 p.
K23 <b>KKBAD 110.600</b>	7032	110	600	956807	130	1 p.

Used for: Vertical outside elbow H110 mm, KKBA... and KPBA.../P

Covers are attached by using stainless steel cover clips DF...V4A, DF M... and DFUB... In extreme weather conditions, strong winds, storms for example, the quantity of clips must be increased.



## GRP cover for changing elevation

pressed

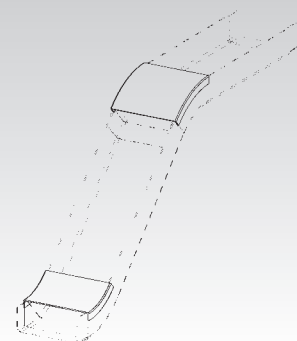
Item ref.	RAL colour	Height mm	Width B mm	EAN code	Weight 100 units pc	Min. pack.
K23 <b>KKETD 50.100</b>	7032	50	100	957002	20	1 p.
K23 <b>KKETD 50.150</b>	7032	50	150	957019	41	1 p.
K23 <b>KKETD 50.200</b>	7032	50	200	957026	40	1 p.
K23 <b>KKETD 50.300</b>	7032	50	300	957033	60	1 p.

1 KKETD is composed of :

- 1 GRP cover for inside elbow
- 1 GRP cover for outside elbow

Used for: Changing elevation H50 mm KKET... and KPET.../P

Covers are attached by using stainless steel cover clips DF...V4A, DF M... and DFUB... In extreme weather conditions, strong winds, storms for example, the quantity of clips must be increased.





## GRP cover for changing elevation

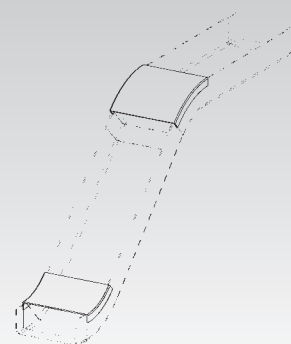
pressed

Item ref.	RAL colour	Height mm	Width B mm	EAN code	Weight 100 units pc	Min. pack.
K23 <b>KKETD 80.100</b>	7032	80	100	957040	23,5	1 p.
K23 <b>KKETD 80.150</b>	7032	80	150	957057	31,7	1 p.
K23 <b>KKETD 80.200</b>	7032	80	200	957064	40,5	1 p.
K23 <b>KKETD 80.250</b>	7032	80	250	957071	44,0	1 p.
K23 <b>KKETD 80.300</b>	7032	80	300	957088	47,0	1 p.
K23 <b>KKETD 80.400</b>	7032	80	400	957095	61,0	1 p.
K23 <b>KKETD 80.500</b>	7032	80	500	957101	98,0	1 p.
K23 <b>KKETD 80.600</b>	7032	80	600	957118	120,0	1 p.

- 1 KKETD is composed of :
- 1 GRP cover for inside elbow
  - 1 GRP cover for outside elbow

Used for: Changing elevation H50 mm KKET... and KPET.../P

Covers are attached by using stainless steel cover clips DF...V4A, DF M... and DFUB... In extreme weather conditions, strong winds, storms for example, the quantity of clips must be increased.



## GRP cover for changing elevation

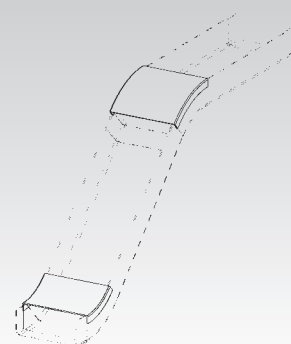
pressed

Item ref.	RAL colour	Height mm	Width B mm	EAN code	Weight 100 units pc	Min. pack.
K23 <b>KKETD 110.100</b>	7032	110	100	957125	23,5	1 p.
K23 <b>KKETD 110.200</b>	7032	110	200	957132	40,0	1 p.
K23 <b>KKETD 110.300</b>	7032	110	300	957149	47,0	1 p.
K23 <b>KKETD 110.400</b>	7032	110	400	957156	61,0	1 p.
K23 <b>KKETD 110.500</b>	7032	110	500	957163	98,0	1 p.
K23 <b>KKETD 110.600</b>	7032	110	600	957170	120,0	1 p.

- 1 KKETD is composed of :
- 1 GRP cover for inside elbow
  - 1 GRP cover for outside elbow

Used for: Changing elevation H110 mm KKET...

Covers are attached by using stainless steel cover clips DF...V4A, DF M... and DFUB... In extreme weather conditions, strong winds, storms for example, the quantity of clips must be increased.



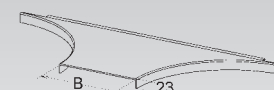
## GRP cover for tee junction, large radius

pressed, with interlocking coupler

Item ref.	RAL colour	Width B mm	EAN code	Weight 100 units pc	Min. pack.
K23 <b>KKSTD 100</b>	7032	100	957187	35	1 p.
K23 <b>KKSTD 150</b>	7032	150	957194	42	1 p.
K23 <b>KKSTD 200</b>	7032	200	957200	52	1 p.
K23 <b>KKSTD 250</b>	7032	250	957217	63	1 p.
K23 <b>KKSTD 300</b>	7032	300	957224	65	1 p.
K23 <b>KKSTD 400</b>	7032	400	957231	78	1 p.
K23 <b>KKSTD 500</b>	7032	500	957248	100	1 p.
K23 <b>KKSTD 600</b>	7032	600	957255	118	1 p.

Used for: Cover for tee junction for H50, H80 and H110 mm, KKST... and KPST.../P

Covers are attached by using stainless steel cover clips DF...V4A, DF M... and DFUB... In extreme weather conditions, strong winds, storms for example, the quantity of clips must be increased.



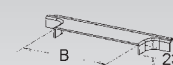
## Tee junction cover, small radius

pressed, with interlocking coupler

Item ref.	RAL colour	Width B mm	EAN code	Weight 100 units pc	Min. pack.
K23 <b>KKSSD 50</b>	7032	50	957262	5,0	1 p.
K23 <b>KKSSD 100</b>	7032	100	957279	8,0	1 p.
K23 <b>KKSSD 150</b>	7032	150	957286	9,5	1 p.
K23 <b>KKSSD 200</b>	7032	200	957293	13,0	1 p.
K23 <b>KKSSD 250</b>	7032	250	957309	14,5	1 p.
K23 <b>KKSSD 300</b>	7032	300	957316	15,5	1 p.

Used for: Tee junction for H50 and H80 mm, KKSS... and KPSS.../P

Covers are attached by using stainless steel cover clips DF...V4A, DF M... and DFUB... In extreme weather conditions, strong winds, storms for example, the quantity of clips must be increased.



# CABLE TRAY SYSTEM COVERS K<sup>2</sup>

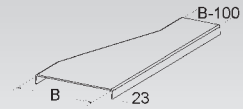
## GRP cover for right hand reduction

pressed

Item ref.	RAL colour	Width B mm	EAN code	Weight 100 units pc	Min. pack.
K23 <b>KKRRD 200</b>	7032	200	957378	50,5	1 p.
K23 <b>KKRRD 300</b>	7032	300	957385	79,0	1 p.
K23 <b>KKRRD 400</b>	7032	400	957392	119,0	1 p.
K23 <b>KKRRD 500</b>	7032	500	957408	131,0	1 p.
K23 <b>KKRRD 600</b>	7032	600	957415	160,0	1 p.

Used for: Right hand reduction H50, H80 and H110 mm, KKRR...

Covers are attached by using stainless steel cover clips DF...V4A, DF M... and DFUB... In extreme weather conditions, strong winds, storms for example, the quantity of clips must be increased.



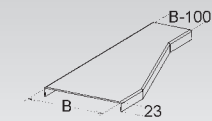
## GRP cover for left hand reduction

pressed

Item ref.	RAL colour	Width B mm	EAN code	Weight 100 units pc	Min. pack.
K23 <b>KKRLD 200</b>	7032	200	957323	49	1 p.
K23 <b>KKRLD 300</b>	7032	300	957330	75	1 p.
K23 <b>KKRLD 400</b>	7032	400	957347	110	1 p.
K23 <b>KKRLD 500</b>	7032	500	957354	147	1 p.
K23 <b>KKRLD 600</b>	7032	600	957361	160	1 p.

Used for: Reduction H50, 80 and 110 mm, KKRL...

Covers are attached by using stainless steel cover clips DF...V4A, DF M... and DFUB... In extreme weather conditions, strong winds, storms for example, the quantity of clips must be increased.



## Cover fixing clip

stainless steel

Item ref.	Height mm	EAN code	Weight 100 units pc.	Min. pack.
E4 <b>DF 50 E4</b>	55	957873	1,7	50 p.
E4 <b>DF 80 E4</b>	85	957880	2,1	50 p.
E4 <b>DF 100 E4</b>	110	957897	2,3	50 p.

for fixing the cables tray covers and fittings

Used for: Cable tray cover KKD... and KPD...

Cover for fittings KKCD..., KKBD..., KKWD..., KKBAD..., KKBID..., KKETD..., KKSTD..., KKSSD..., KKRLD... and KKRRD...

Under normal conditions, it is recommended to mount 1 clip each meter alternatively every 3 meters. Under extreme weather conditions, such as strong winds or storms, the quantity of clips must be increased.



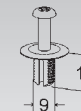
## Cover fixing

Item ref.	EAN code	Weight 100 units pc.	Min. pack.
K01 <b>DF M</b>	957927	0,2	50 p.

Used for: Cover for cable tray KKD... and KPD...

Cover for fittings KKCD..., KKBD..., KKWD..., KKBAD..., KKBID..., KKETD..., KKSTD..., KKSSD..., KKRLD... und KKRRD...

For fixing the cover, it is necessary to drill a 8,2 mm diameter hole for the diameter. In extreme weather conditions such as strong winds, for example, the quantity of clips must be increased.



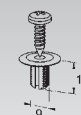
## Cover fixing

Item ref.	EAN code	Weight 100 units pc.	Min. pack.
★ E4 <b>DFUB 5.5X19 E4</b>	062065	0,64	50 p.

Used for: Cover for cable tray KKD... and KPD...

Cover for fittings KKCD..., KKBD..., KKWD..., KKBAD..., KKBID..., KKETD..., KKSTD..., KKSSD..., KKRLD... und KKRRD...

For fixing the cover, it is necessary to drill a 8,2 mm diameter hole for the diameter. In extreme weather conditions such as strong winds, for example, the quantity of clips must be increased.



## Cover fixing clip

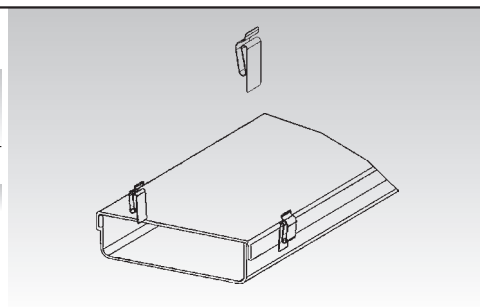
stainless steel

Item ref.	EAN code	Weight 100 units pc.	Min. pack.
<b>E4 DF 1060 E4</b>	957910	1,1	50 p.

for fixing the cables tray covers and fittings

Used for: Cable tray cover KKD...

Under normal conditions, it is recommended to mount 1 clip each meter alternatively every 3 meters. Under extreme weather conditions, such as strong winds or storms, the quantity of clips must be increased.



# CABLE TRAY SYSTEM ACCESSOIRES K<sup>2</sup>

## Separating stud

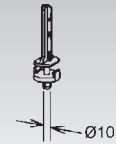
pultruded

Item ref.	EAN code	Weight 100 units m	Min. pack.
<b>K01 TB</b>	957934	1	1 p.

for an easy mounting of cables and connections

**Not suitable when the cable tray is mounted vertically (not horizontally)**

When mounting the separating stud, it is necessary to drill a 10 mm hole diameter in the base.



## Dome head bolt

Included nut and washer

Item ref.	Thread M	Length L mm	EAN code	Weight 100 units pc	Min. pack.
<b>E4 FKM 6X16 E4</b>	6	16	962693	1,2	100 p.
<b>E4 FKM 6X20 E4</b>	6	20	962709	1,4	100 p.

Also named M6x16V4A for FKM 6x16 E4, M6x20V4A for FKM 6x20 E4, M8x20PA6 for FKM 8x20 K01, M10x30V4A for SKM 10x30 E4



## Dome head bolt

Included nut and washer

Item ref.	Thread M	Length L mm	EAN code	Weight 100 units pc	Min. pack.
<b>K01 FKM 8X20 K01</b>	8	20	962716	0,4	100 p.

Also named M6x16V4A for FKM 6x16 E4, M6x20V4A for FKM 6x20 E4, M8x20PA6 for FKM 8x20 K01, M10x30V4A for SKM 10x30 E4



## Hexagon head bolt

Included nut and washer

Item ref.	Thread M	Length L mm	EAN code	Weight 100 units pc	Min. pack.
<b>E4 SKM 10X30 E4</b>	10	30	962730	4,5	100 p.
<b>E4 SKM 10X40 E4</b>	10	40	962747	5,1	100 p.

Also named M6x16V4A for FKM 6x16 E4, M6x20V4A for FKM 6x20 E4, M8x20PA6 for FKM 8x20 K01, M10x30V4A for SKM 10x30 E4



# NOTES

