

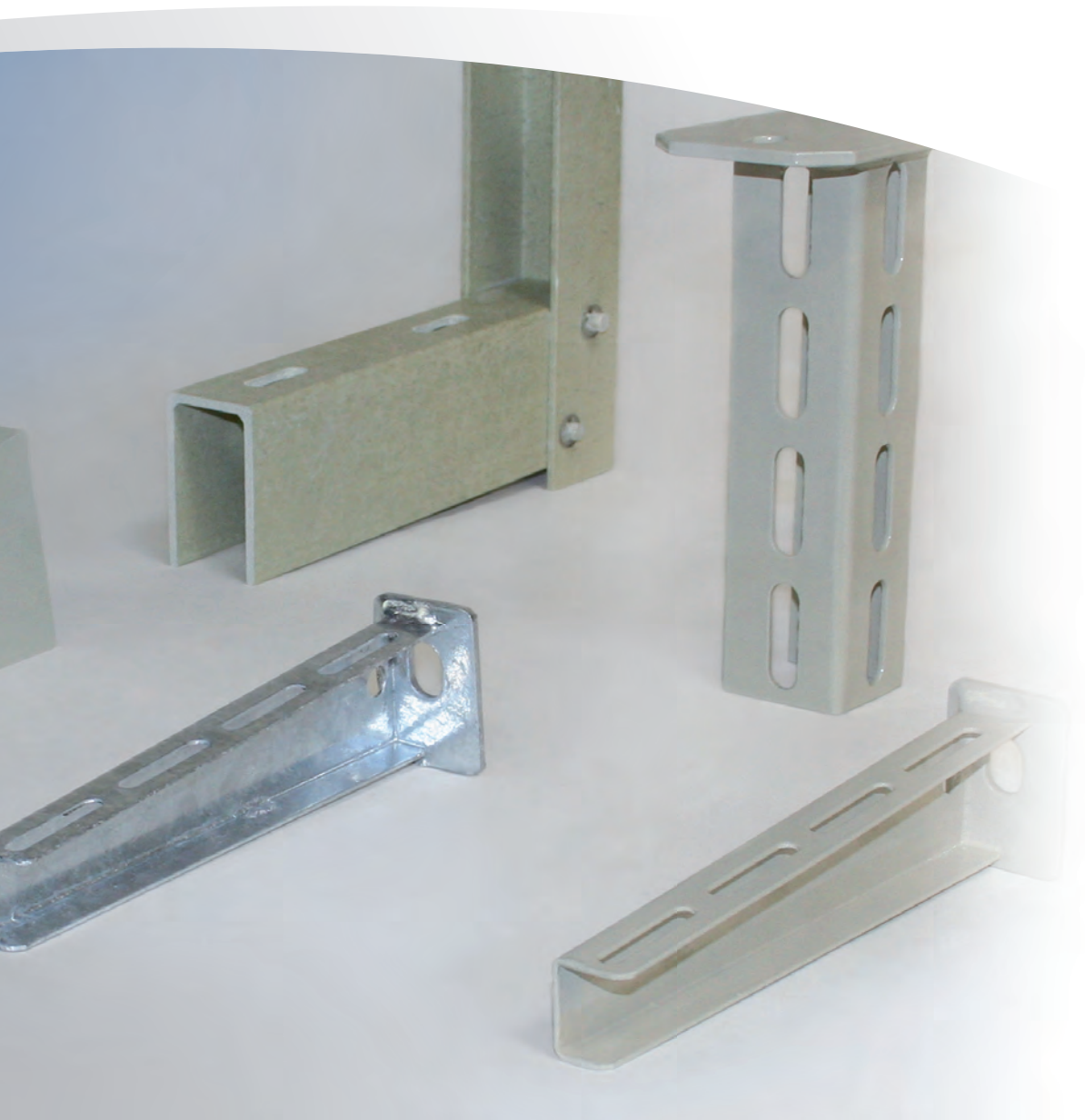
Support System

○ Ceiling bracket and wall bracket

○ Profiles

○ Brackets

○ Mounting plates



Compatible with our different ranges of cable trays, our supporting systems are available in several finishes and different support structures. A range of support structures ranging from hot-dip galvanized steel and epoxy, through the stainless steel, loaded polyester reinforced fiberglass.

Dimensions and perforations supports are suitable for EBO Systems cables trays.
The load capacities are variable according to the type of installation (ceiling, wall ...).

Overview brackets and hangers

SYSTEM	Hangers and wall supports - average load	KTAM	17	
	Hangers and wall supports, standard	KTA	17	
	GRP brackets, pultruded	FPAP	18	
	GRP brackets, pressed	FPAM	18	
	GRP brackets, pultruded, Z Profil	FPCO	19	
	GRP support, pultruded	FPPS	19	
	Hangers, U profile	HU 5050	20/21	
	Hangers-profiles	HDS	21/22	
	Profil	U 5050	22/23	
	Anchor fixing plate	KU 5050	23	
	GRP hangers, U profil	FPES	24	
	GRP hangers, pultruded, Profil C	FPDS	24	
	ACCESSORIES	STAINLESS STEEL Fixing system SS anchor bolt	FPBGV	24
		Track C-Profil, opening of 15 mm, perforated	FPAR	25
Protective cover		KA	18	
Protective cover		K 5050	21	

The classification of brackets and hangers into categories like light, medium and heavy is only an indication for their typical usage. For engineering purposes exact calculations of overall loads considering the weight of the cable, the weight of the tray and the support span are mandatory.
In the event that the support structures and loads of cables are uniformly distributed, the supporting capacity of the bracket must be calculated as follows:
load $F = (\text{cables weight} + \text{weight of the various components of the support installation}) \times \text{support distance}$

Load ratings shown in this catalog are valid only for proper anchorage to the building structure. Please refer to the general information section and consult site management or structural engineering for details about the building structure and local regulations.

Hanger and wall bracket

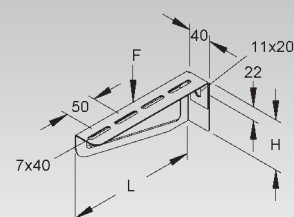
middle range

Item ref.	Height mm	Length L mm	adj. at L/2 kN	Accessories/ bolts included	EAN code	Weight 100 units pc.	Min. pack.
E5 KTAM 100 E5	60	110	1,2	2 FLM 6x12 E5	728305	16,51	20 p.
E5 KTAM 200 E5	80	210	1,2	2 FLM 6x12 E5	728404	30,61	20 p.
E5 KTAM 300 E5	85	310	1,2	2 FLM 6x12 E5	728503	44,33	20 p.
E5 KTAM 400 E5	115	410	1,2	2 FLM 6x12 E5	728602	73,59	20 p.

for a wall mounting or a ceiling mounting

Warning: different properties for various lengths

The load capacities are only valid if the main supporting part is sufficiently and correctly fixed, particularly the ceiling supports.



Ceiling support and wall bracket

standard range

Item ref.	Height mm	Width B mm	Length L mm	adj. at L/2 kN	Accessories/ bolts included	EAN code	Weight 100 units pc./	Min. pack.
F KTA 100	45	40	110	2,5	2 FLM 6x12	186907	13,60	20 p.
F KTA 150	45	40	160	2,5	2 FLM 6x12	187003	16,90	20 p.
F KTA 200	55	40	210	2,5	2 FLM 6x12	187102	25,20	20 p.
F KTA 250	55	40	260	2,5	2 FLM 6x12	187201	29,80	20 p.
F KTA 300	65	50	310	2,5	2 FLM 6x12	187300	55,80	20 p.
F KTA 350	65	50	360	2,5	2 FLM 6x12	187409	62,70	20 p.
F KTA 400	75	50	410	2,5	2 FLM 6x12	187508	75,20	20 p.
F KTA 450	75	50	460	2,5	2 FLM 6x12	187607	83,80	10 p.
F KTA 500	90	50	510	2,5	2 FLM 6x12	187706	106,70	10 p.
F KTA 550	90	50	560	2,5	2 FLM 6x12	187805	129,20	10 p.
F KTA 600	90	50	610	2,5	2 FLM 6x12	187904	122,80	10 p.
E5 KTA 100 E5	45	40	110	2,5	2 FLM 6x12 E5	842605	14,80	20 p.
E5 KTA 200 E5	55	40	210	2,5	2 FLM 6x12 E5	842629	25,92	20 p.
E5 KTA 300 E5	65	50	310	2,5	2 FLM 6x12 E5	842643	55,69	20 p.
E5 KTA 400 E5	90	50	410	2,5	2 FLM 6x12 E5	842667	80,00	20 p.
E5 KTA 500 E5	110	50	510	2,5	2 FLM 6x12 E5	917402	120,00	20 p.
E5 KTA 600 E5	110	50	610	2,5	2 FLM 6x12 E5	917426	135,00	20 p.

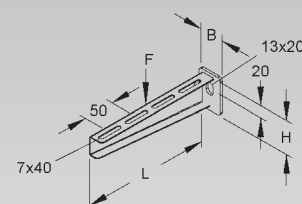
for a wall mounting and for a ceiling mounting

Oblong holes dimensions LL 7x40 mm in the KTA 100-600 series

Oblong holes dimensions LL 7x15 mm in the KTA 150-550 series (intermediate sizes) and in the aluminum finish KTA 100-600

The load capacities are only valid if the main supporting part is sufficiently and correctly fixed, particularly the ceiling supports.

Mounting accessories required for cable ladder UL : ULKG, M10x30 V4A (to be ordered separately)



Ceiling support and wall bracket

epoxy, standard

Item ref.	RAL colour	Height mm	Width B mm	Length L mm	adj. at L/2 kN	Accessories/ bolts included	EAN code	Weight 100 units pc	Min. pack.
C1 KTA 100 C1KG	7032	45	40	110	2,5	2 FLM 6x12 E5	967209	13,1	1 p.
C1 KTA 150 C1KG	7032	45	40	160	2,5	2 FLM 6x12 E5	967216	16,4	1 p.
C1 KTA 200 C1KG	7032	55	40	210	2,5	2 FLM 6x12 E5	967223	24,4	1 p.
C1 KTA 250 C1KG	7032	55	40	260	2,5	2 FLM 6x12 E5	967230	28,8	1 p.
C1 KTA 300 C1KG	7032	65	50	310	2,5	2 FLM 6x12 E5	967247	53,9	1 p.
C1 KTA 350 C1KG	7032	65	50	360	2,5	2 FLM 6x12 E5	967254	60,7	1 p.
C1 KTA 400 C1KG	7032	75	50	410	2,5	2 FLM 6x12 E5	967261	72,8	1 p.
C1 KTA 450 C1KG	7032	75	50	460	2,5	2 FLM 6x12 E5	967278	81,1	1 p.
C1 KTA 500 C1KG	7032	90	50	510	2,5	2 FLM 6x12 E5	967285	103,3	1 p.
C1 KTA 550 C1KG	7032	90	50	560	2,5	2 FLM 6x12 E5	967292	125,0	1 p.
C1 KTA 600 C1KG	7032	90	50	610	2,5	2 FLM 6x12 E5	967308	118,8	1 p.

for a wall mounting on supporting rail FPAR and on ceiling support FPES / FPDS

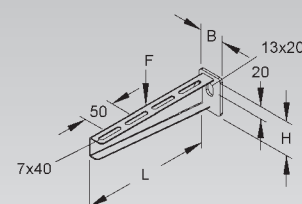
Oblong holes dimensions LL 7x40 mm in the KTA 100-600 series

Oblong holes dimensions LL 7x15 mm in the KTA 150-550 series (intermediate sizes) and in the aluminum finish KTA 100-600

The load capacities are only valid if the main supporting part is sufficiently and correctly fixed, particularly the ceiling supports.

Mounting accessories required for cable ladder UL: ULKG, M6x30 V4A (to be ordered separately)

Mounting accessories required for cable ladder UL: ULKG, M10x30 V4A (to be ordered separately)



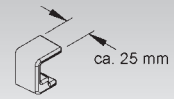
SUPPORT SYSTEM

Protective end cap

Item ref.	Colour	EAN code	Weight 100 units	Min. pack.	
K10	KA 100-600	yellow	347056	1,4	10 p.

to protect the profile ends

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



GRP bracket

pultruded

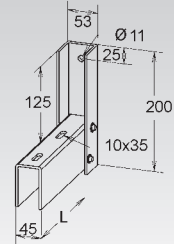
Item ref.	RAL colour	Length L mm	adj. at L/2 kN	EAN code	Weight 100 units pc./pc	Min. pack.	
K23	FPAP 100/AC	7032	110	1,25	955725	47,0	1 p.
K23	FPAP 150/AC	7032	160	1,25	955732	54,5	1 p.
K23	FPAP 200/AC	7032	210	1,25	955749	58,5	1 p.
K23	FPAP 250/AC	7032	260	1,25	955756	65,0	1 p.
K23	FPAP 300/AC	7032	310	1,25	955763	72,2	1 p.

for a wall mounting and for a ceiling mounting

Used for: Hanger FPES... and FPDS...

The load capacities are only valid if the main supporting part is sufficiently and correctly fixed, particularly the ceiling supports.

Fixing accessories for cables trays (to be ordered separately) :
for cables trays K² and KP : M6x20 V4A



GRP bracket

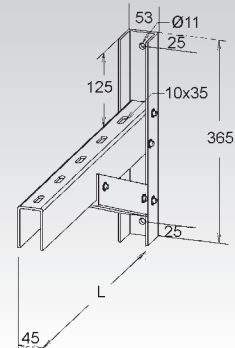
pultruded

Item ref.	RAL colour	Length L mm	adj. at L/2 kN	EAN code	Weight 100 units pc	Min. pack.	
K23	FPAP 400/AC	7032	410	1,25	955770	161,5	1 p.
K23	FPAP 500/AC	7032	510	1,25	955787	174,5	1 p.
K23	FPAP 600/AC	7032	610	1,25	955794	186,0	1 p.

for a wall mounting and for a ceiling mounting

Used for: Hanger FPES... and FPDS...

The load capacities are only valid if the main supporting part is sufficiently and correctly fixed, particularly the ceiling supports.



GRP bracket

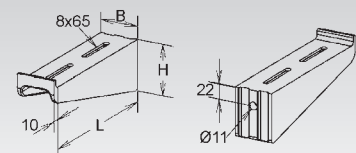
pressed

Item ref.	RAL colour	Height mm	Width B mm	Length L mm	adj. at L/2 kN	EAN code	Weight 100 units pc.	Min. pack.	
K23	FPAM 100	7032	50	55	120	1,25	955848	17	1 p.
K23	FPAM 150	7032	60	55	170	1,25	955855	18	1 p.
K23	FPAM 200	7032	70	55	220	1,25	955862	36	1 p.
K23	FPAM 300	7032	90	55	320	1,25	955879	50	1 p.

for a wall mounting and for a ceiling mounting

Used for: Hanger FPES... and FPDS...

The load capacities are only valid if the main supporting part is sufficiently and correctly fixed, particularly the ceiling supports.



GRP bracket

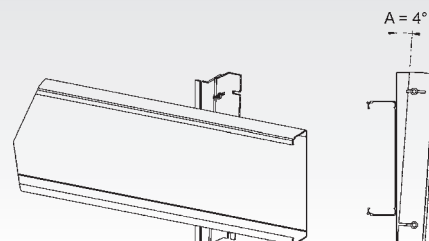
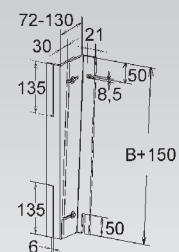
pultruded, Z-profile

Item ref.	RAL colour	Width B mm	EAN code	Weight 100 units pc	Min. pack.
K23 FPCO 100/AC	7032	100	963102	55	1 p.
K23 FPCO 150/AC	7032	150	963119	68	1 p.
K23 FPCO 200/AC	7032	200	963126	77	1 p.
K23 FPCO 300/AC	7032	300	963133	100	1 p.

for the horizontal mounting of cable trays

Used for: Only for the cable trays KK... and KP...

Mounting accessories required for cable tray K2 and KP : M6x20 V4A (to be ordered separately)



GRP support

pultruded, Z-profile

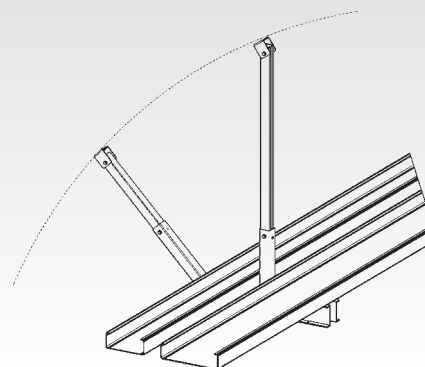
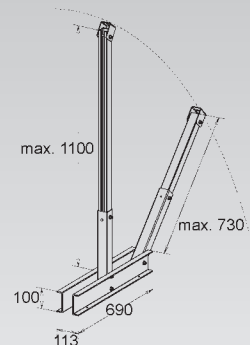
Item ref.	RAL colour	EAN code	Weight 100 units pc	Min. pack.
K23 FPPS	7032	963140	0	1 p.

for the horizontal mounting of cable trays

The support is universal

Used for: Only for the cable trays KK... and KP... and UL...

Mounting accessories required for cable tray K2 and KP : M6x20 V4A (to be ordered separately)



SUPPORT SYSTEM

Ceiling support

Profile U

	Item ref.	Total length L mm	EAN code	Weight 100 units pc./pc	Min. pack.
F	HU 5050/200	205	858705	93,08	1 p.
F	HU 5050/250	255	858729	105,23	1 p.
F	HU 5050/300	305	858743	117,38	1 p.
F	HU 5050/400	405	858767	141,68	1 p.
F	HU 5050/500	505	858781	165,97	1 p.
F	HU 5050/600	605	858804	190,27	1 p.
F	HU 5050/700	705	858828	214,57	1 p.
F	HU 5050/800	805	858842	238,87	1 p.
F	HU 5050/900	905	858866	263,17	1 p.
F	HU 5050/1000	1005	858880	287,46	1 p.
F	HU 5050/1100	1105	858903	311,76	1 p.
F	HU 5050/1200	1205	858927	336,06	1 p.
F	HU 5050/1500	1505	858941	408,95	1 p.
F	HU 5050/2000	2005	858965	530,44	1 p.
E5	HU 5050/200 E5	205	945757	86,02	1 p.
E5	HU 5050/300 E5	305	945702	108,48	1 p.
E5	HU 5050/400 E5	405	945764	130,92	1 p.
E5	HU 5050/500 E5	505	945771	153,38	1 p.
E5	HU 5050/600 E5	605	945788	175,83	1 p.
E5	HU 5050/800 E5	805	965953	220,74	1 p.
E5	HU 5050/1000 E5	1005	965960	265,65	1 p.

Total length = U profile length, included fixing plate.

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

Used for: Rail FPAP and wall mounted bracket FPAP

Rail and wall mounted bracket KTA...

In order to avoid the deformation of ceiling support during the mounting of brackets, it is necessary for mechanical reason, to take into account of the thickness of the ceiling support when screwing the hexagonal bolts.

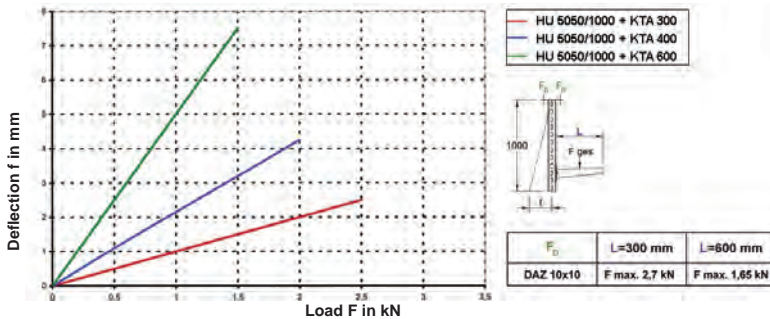
for static reasons and to facilitate the mounting of end caps, the bracket must be mounted at x=50 mm above the ceiling support end.

To prevent the deformation of the ceiling support profile when installing the brackets, it is recommended to use hexagonal head bolts for mechanical reasons.

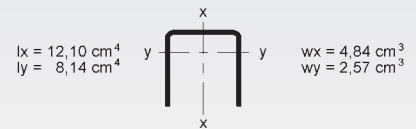
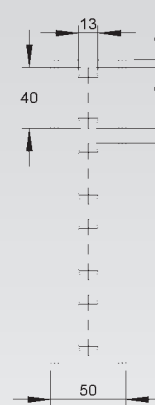
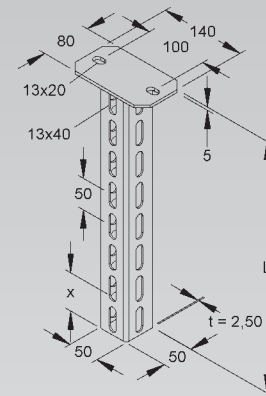
Serie of oblong holes (13x40 mm) on 3 profile sides.

The load data are only valid in case of a sufficiently strong fixing of the supporting part. The share of loads in the building must be defined with the contractor. You must follow the guidelines and definitions in force.

Load diagram : deflection of the hanger in case of one-sided charges



In case of symmetrical loads, the deflection is not significant.



Hanger

epoxy, U-profile

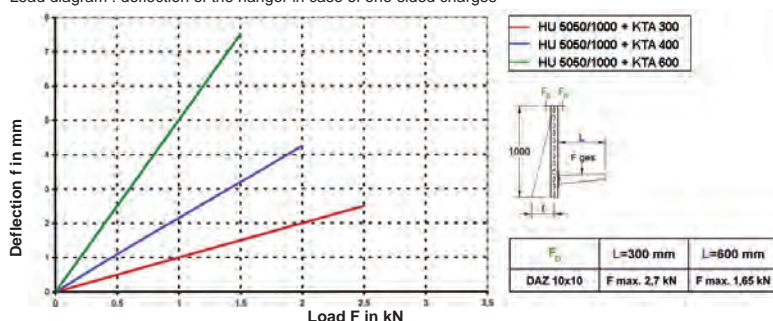
Item ref.	RAL colour	Total length L	EAN code	Weight 100 units pc	Min. pack.	
		mm				
C1	HU 5050/200 C1KG	7032	205	967100	88,0	1 p.
C1	HU 5050/250 C1KG	7032	255	967124	99,5	1 p.
C1	HU 5050/300 C1KG	7032	305	967131	111,0	1 p.
C1	HU 5050/400 C1KG	7032	405	967148	133,9	1 p.
C1	HU 5050/500 C1KG	7032	505	967155	156,9	1 p.
C1	HU 5050/600 C1KG	7032	605	967162	179,9	1 p.
C1	HU 5050/700 C1KG	7032	705	967179	202,9	1 p.
C1	HU 5050/800 C1KG	7032	805	967186	225,8	1 p.
C1	HU 5050/900 C1KG	7032	905	967193	248,8	1 p.
C1	HU 5050/1000 C1KG	7032	1005	967063	271,8	1 p.
C1	HU 5050/1100 C1KG	7032	1105	967070	294,8	1 p.
C1	HU 5050/1200 C1KG	7032	1205	967087	317,7	1 p.
C1	HU 5050/1500 C1KG	7032	1505	967094	386,6	1 p.
C1	HU 5050/2000 C1KG	7032	2005	967117	501,5	1 p.

Total length = U profile length, included fixing plate.

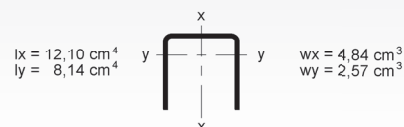
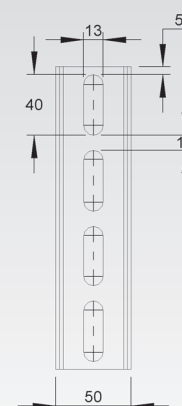
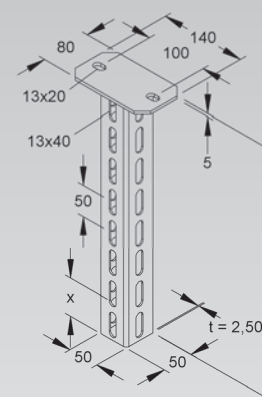
HU 5050/200, has limited space for equipment in cable trays (bracket length & height)

Used for: Hangers FPES / FPDS and wall bracket FPAP
Rail FPAP and wall mounted bracket FPAP

Load diagram : deflection of the hanger in case of one-sided charges



In case of symmetrical loads, the deflection is not significant.



Protective end cap

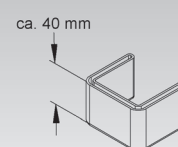
Item ref.	Colour	EAN code	Weight 100 units pc.	Min. pack.	
K10	K 5050	yellow	347025	3	10 p.

to protect the profile ends

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

Used for: Profile U 5050/... and hanger HU 5050/...

To facilitate the assembly of end caps, a minimum space of 50 mm is required between the bracket bottom and the ceiling support end.



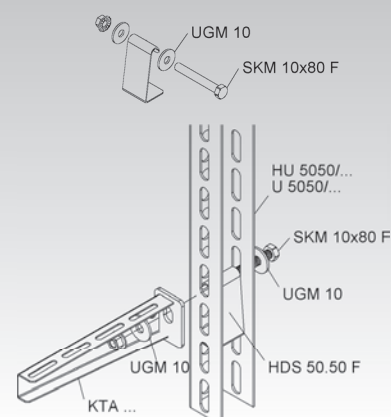
Ceiling support profile

Item ref.	Accessories/ bolts included	EAN code	Weight 100 units pc./pc	Min. pack.	
F	HDS 50.50 F	1 SKM 10x80 F, 2 UGM 10	931705	7,5	50 p.
E5	HDS 50.50 E5	1 SKM 10x90 E4, 2 UGM 10	962266	6,8	50 p.

Used for: Profile U 5050/... and hanger HU 5050/...

In order to avoid the deformation of ceiling support during the mounting of brackets, it is necessary for mechanical reasons, to take into account of the thickness of the ceiling support when screwing the hexagonal bolts.

To prevent the deformation of the ceiling support profile when installing the brackets, it is recommended to use hexagonal head bolts for mechanical reasons.



SUPPORT SYSTEM

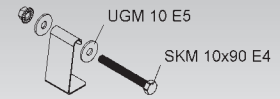
Ceiling support profile

epoxy

Item ref.	RAL colour	Accessories/ bolts included	EAN code	Weight 100 units pc	Min. pack.	
C1	HDS 50.50 C1KG	7032	1 SKM 10x90 E4, 2 UGM 10	967056	7,5	10 p.

Used for: Profile U 5050/... C1KG and hanger HU 5050/... C1KG

To prevent the deformation of the ceiling support profile when installing the brackets, it is recommended to use hexagonal head bolts for mechanical reasons.

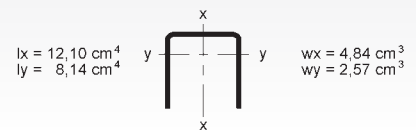
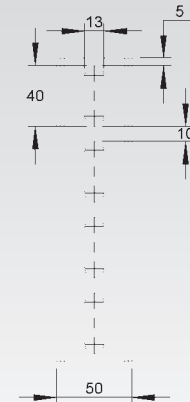
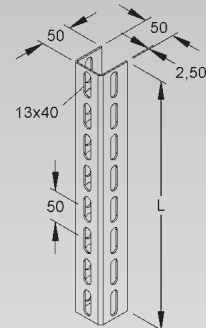


Profile U 5050

Item ref.	Length L mm	EAN code	Weight 100 units pc./pc/m	Min. pack.	
F	U 5050/300 F	300	918560	72,90	1 p.
F	U 5050/400 F	400	918584	97,20	1 p.
F	U 5050/500 F	500	918607	121,50	1 p.
F	U 5050/600 F	600	918621	145,79	1 p.
F	U 5050/700 F	700	918645	170,09	1 p.
F	U 5050/800 F	800	918669	194,38	1 p.
F	U 5050/900 F	900	918683	218,68	1 p.
F	U 5050/1000 F	1000	918706	242,98	1 p.
F	U 5050/1100 F	1100	918720	267,28	1 p.
F	U 5050/1200 F	1200	918744	291,58	1 p.
F	U 5050/1500 F	1500	918768	364,47	1 p.
F	U 5050/2000 F	2000	918782	242,98	2 m
F	U 5050/3000 F	3000	859306	242,98	3 m
F	U 5050/6000 F	6000	859320	242,98	6 m
E5	U 5050/300 E5L	300	965977	67,37	1 p.
E5	U 5050/400 E5L	400	965984	89,82	1 p.
E5	U 5050/500 E5L	500	965991	112,28	1 p.
E5	U 5050/600 E5L	600	966004	134,73	1 p.
E5	U 5050/800 E5L	800	966011	179,64	1 p.
E5	U 5050/1000 E5L	1000	966028	224,55	1 p.
E5	U 5050/6000 E5L	6000	966035	224,55	6 m

for the manufacturing of ceiling supports and supporting systems made of different elements

Serie of oblong holes (13x40 mm) on 3 profile sides



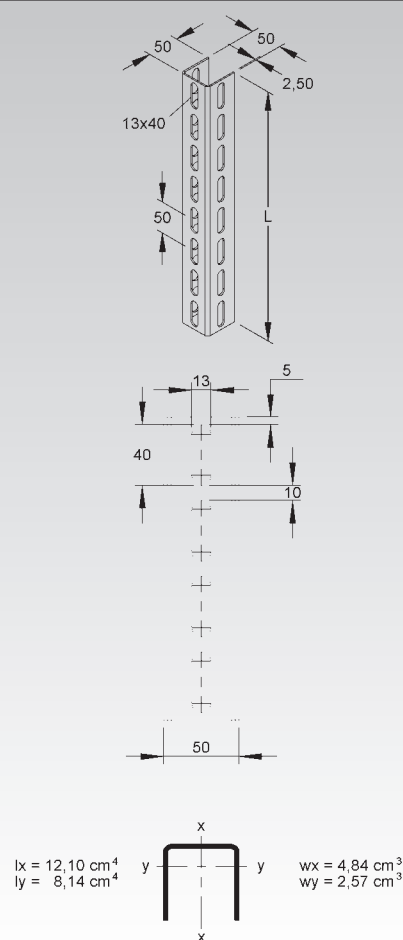
Profile U 5050

epoxy

Item ref.	RAL colour	Length L mm	EAN code	Weight 100 units pc	Min. pack.
C1 U 5050/300 C1KG	7032	300	967384	72,00	1 p.
C1 U 5050/400 C1KG	7032	400	967391	96,00	1 p.
C1 U 5050/500 C1KG	7032	500	967407	120,00	1 p.
C1 U 5050/600 C1KG	7032	600	967414	144,00	1 p.
C1 U 5050/700 C1KG	7032	700	967421	168,00	1 p.
C1 U 5050/800 C1KG	7032	800	967438	192,00	1 p.
C1 U 5050/900 C1KG	7032	900	967445	216,00	1 p.
C1 U 5050/1000 C1KG	7032	1000	967339	128,33	1 p.
C1 U 5050/1100 C1KG	7032	1100	967346	141,17	1 p.
C1 U 5050/1200 C1KG	7032	1200	967353	154,00	1 p.
C1 U 5050/1500 C1KG	7032	1500	967360	359,00	1 p.
C1 U 5050/2000 C1KG	7032	2000	967377	229,73	1 m

for the manufacturing of ceiling supports and supporting systems made of different elements

Serie of oblong holes (13x40 mm) on 3 profile sides



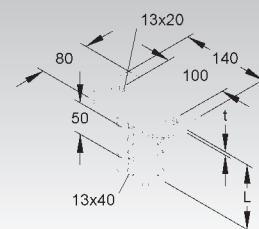
Anchor fixing plate included bolts

Item ref.	Total length L mm	thickness of top plates (th) mm	Accessories/ bolts included	EAN code	Weight 100 units pc./	Min. pack.
F KU 5050	105	5	2 FLM 10x25 F	191956	76,85	1 p.
E5 KU 5050 E5	105	5	2 FLM 10x25 E5	967322	78,75	1 p.

for the mounting on straight ceilings

Used for: Profile U 5050/...

Serie of oblong holes (13x40 mm) on 3 profile sides



Anchor fixing plate included bolts

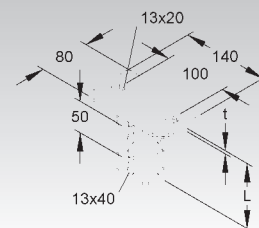
epoxy

Item ref.	RAL colour	Total length L mm	thickness of top plates (th) mm	Accessories/ bolts included	EAN code	Weight 100 units pc	Min. pack.
C1 KU 5050 C1KG	7032	105	5	2 SKM 10x25 E5	967315	72,7	1 p.

for the mounting on straight ceilings

Used for: Profile U 5050/... C1KG

Serie of oblong holes (13x40 mm) on 3 profile sides



SUPPORT SYSTEM

Ceiling support

pultruded, C-profile

Item ref.	RAL colour	Length L mm	Admissible load F in traction kN	EAN code	Weight 100 units pc	Min. pack.
K23 FPES 200/AC	7032	200	1,5	955923	75	1 p.
K23 FPES 300/AC	7032	300	1,5	955930	92	1 p.
K23 FPES 400/AC	7032	400	1,5	955947	110	1 p.
K23 FPES 500/AC	7032	500	1,5	955954	127	1 p.

for a mounting on 1 side of the support

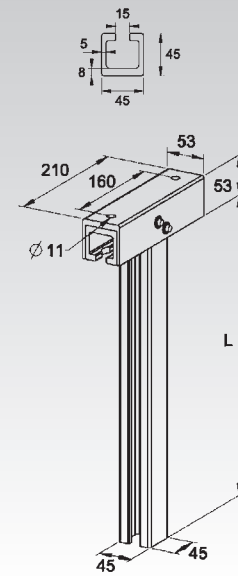
Total length = L + 53 millimeters

The ceiling support fixing to the ceiling with screws require the use of a large washer, to be ordered separately

Used for: Bracket FPAP.../AC and FPAM.../AC

Other lengths are available on request

Mounting accessories required : FPBGV10 V4A (to be ordered separately)



Ceiling support

pultruded, double C-profile

Item ref.	RAL colour	Length L mm	Admissible load F in traction kN	EAN code	Weight 100 units pc	Min. pack.
K23 FPDS 200/AC	7032	200	2 x 1,5	955886	76	1 p.
K23 FPDS 300/AC	7032	300	2 x 1,5	955893	96	1 p.
K23 FPDS 400/AC	7032	400	2 x 1,5	955909	175	1 p.
K23 FPDS 500/AC	7032	500	2 x 1,5	955916	205	1 p.

to mount on the both support sides

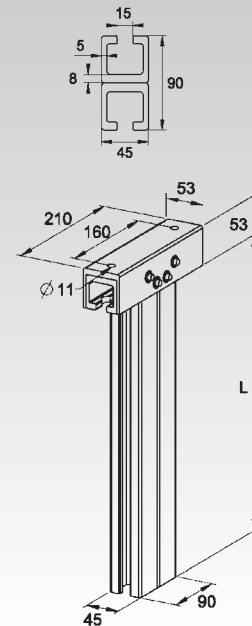
Total length = L + 53 millimeters

The ceiling support fixing to the ceiling with screws require the use of a large washer, to be ordered separately

Used for: Bracket FPAP.../AC and FPAM.../AC

Other lengths are available on request

Mounting accessories required : FPBGV10 V4A (to be ordered separately)

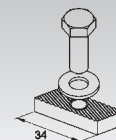


Anchor bolt

Item ref.	Length L mm	EAN code	Weight 100 units pc	Min. pack.
E4 FPBGV 10 E4	30	962662	6,6	25 p.

for fixing the cables on the C profile

Used for: Bracket FPAP/AC, FPAM/AC and FPAR/AC



GRP fixing rail

pultruded, C-profile, slot width 15 mm, perforated

Item ref.	RAL colour	Length L mm	Admissible load F in traction kN	EAN code	Weight 100 units pc	Min. pack.
K23 FPAR 500/AC	7032	500	1,5	955961	52	1 p.
K23 FPAR 750/AC	7032	750	1,5	955978	76	1 p.
K23 FPAR 1000/AC	7032	1000	1,5	955985	168	1 p.
K23 FPAR 2000/AC	7032	2000	1,5	955992	244	1 p.

