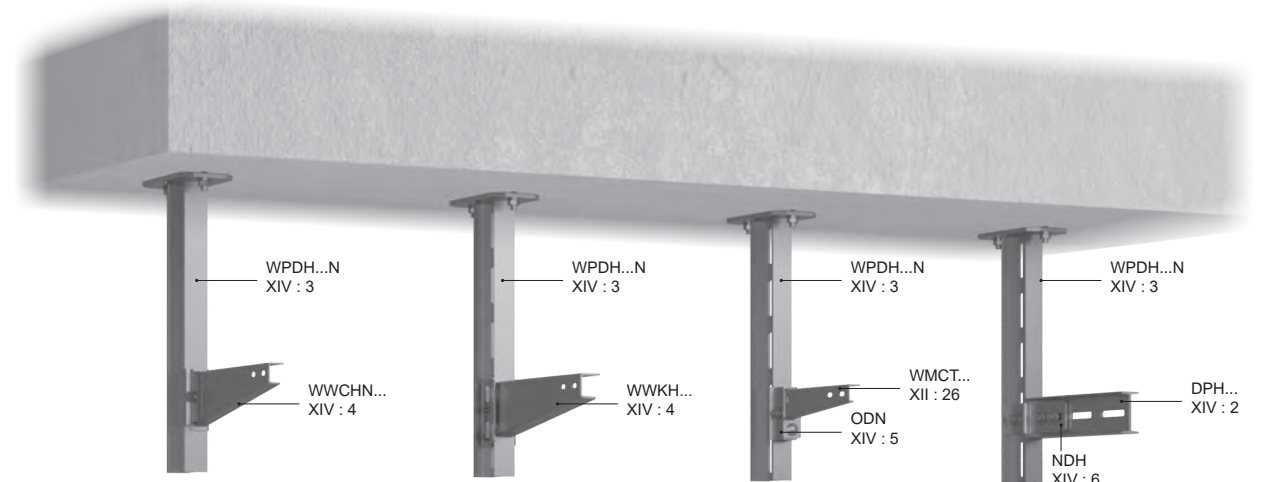
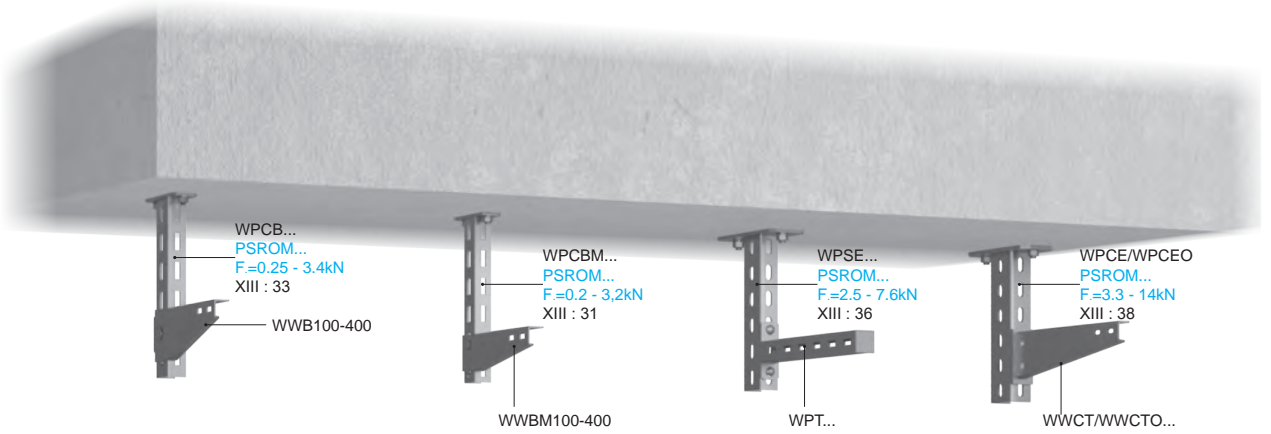
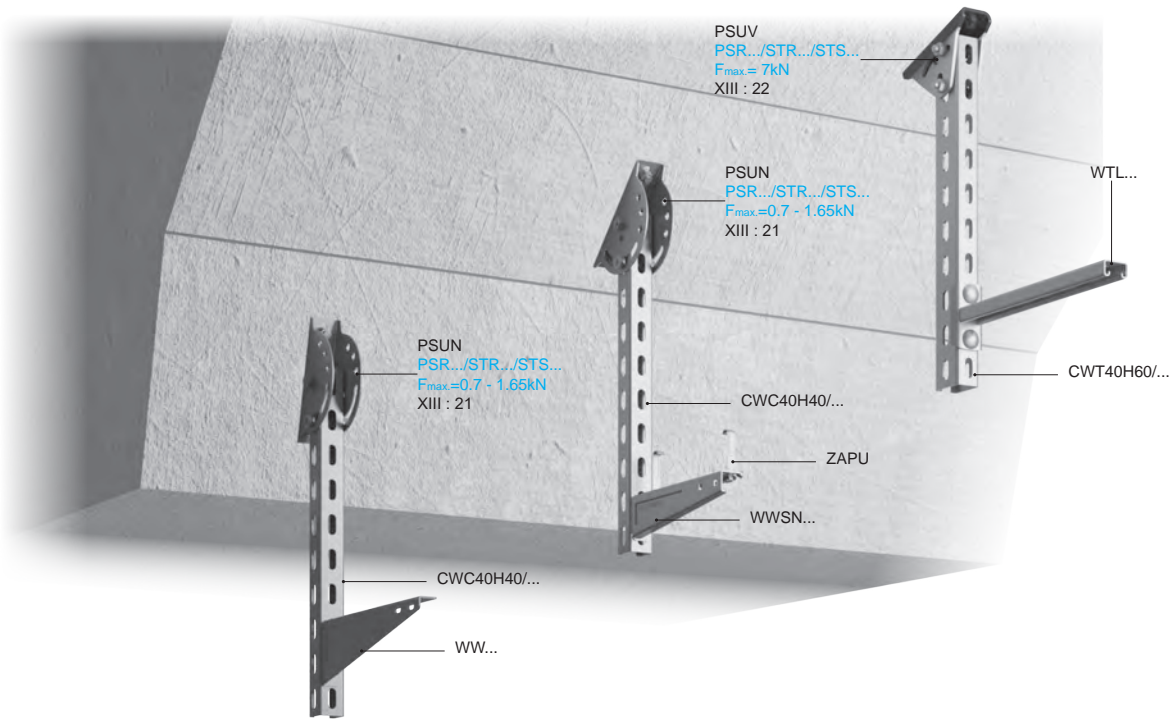




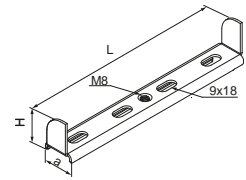
ADVANTAGES OF WALL AND CEILING SUSPENSION SYSTEM

The wall and ceiling suspension system provides a very wide range for use in any type of facility in any corrosion class. Through the continuous improvement of our brackets, they are used in residential buildings, garage halls, shopping malls, sports facilities, production halls, power plants, industrial facilities and many others.

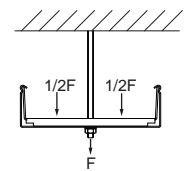
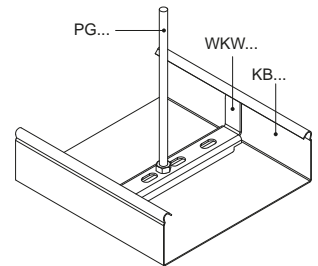
1. Wide range of strength and size of wall brackets (from 50 mm to 1500 mm, from 18 kg to 800 kg) and ceiling brackets (from 100 mm to 6000 mm, from 20 kg to 780 kg).
2. Strength parameters confirmed by empirical tests.
3. Snap-in brackets in channel sections type WS, WSZ and WZS speeding up installation several times.
4. New triangular brackets PWT... for very heavy loads with the possibility of extension with a dedicated channel.
5. Calculation modules on the website - the ability to quickly and optimally select a wall bracket or ceiling bracket based on load and dimension.
6. It is possible to manufacture brackets in different coatings and materials: Sendzimir galvanised steel according to PN-EN 10346:2015-09 (coating thickness about 19 µm), hot-dip galvanised steel according to PN-EN ISO 1461:2023-02 (up to 100 µm), flake galvanised steel according to PN-EN ISO 10683:2018-11, powder-coated galvanised steel, stainless steel 1.4301, 1.4044, 1.4571 (AISI grades: 304, 304L, 316, 316L, 316Ti and others), thanks to such a wide range of materials and coatings, there is unlimited possibility of application in any environment.
7. Fully automated production process for brackets - this ensures high quality and repeatable production with the precision of 0.1 mm.
8. Technology and production quality at the highest level globally, thanks to the use of machinery from the best manufacturers on the market.
9. We produce from high quality materials, sheet metal, manufactured in Western European steel mills (Arcelor Mittal Eisenhuttenstadt, Arcelor Mittal Bremen, Arcelor Mittal Liege, Arcelor Mittal Gent) - high quality materials guarantee trouble-free and fast installation, long service life, uniform appearance of all products as well as conformity with safety standards in accordance with obtained certificates.
10. Design and production of unusual, non-standard brackets - any length, width, height, perforation, thickness, type of material and use of any colour do not limit the possibilities in creating aesthetically pleasing and innovative solutions. We are flexible and open to customer needs.
11. All production located in one place and our own hot-dip galvanising plant, flake galvanising plant and powder coating plant - this allows us to fully control the entire production process, maintain the highest quality of the product and reduce lead times.
12. All the necessary certificates and approvals for the wall and ceiling suspension system:
 - TÜV Rheinland certification for mechanical strength
 - TÜV Rheinland and VDE certification for electrical continuity
 - National Technical Assessment, Certificate of Constancy of Performance and CNBOP-PIB (Scientific and Research Centre for Fire Protection – National Research Institute) Certificate of Approval (except KA trays) confirming compliance with E90 system requirements according to DIN 4101-12
 - TÜV Rheinland certification confirming compliance of the production quality management system with the ISO 9001:2015 standard
 - TÜV Rheinland certification confirming compliance of the Environmental Management System with the ISO 14001:2015 standard
 - EC Declaration of Conformity



Central Hanger		WKW...H42	mat.: S	option: FP, E, L	
code	catalogue number	dimension L/H/a [mm]	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 2.0 mm					
WKW50H42	731505	41/40/28	0.80	0.07	100
WKW100H42	731510	91/40/28	0.60	0.10	100
WKW150H42	731515	141/40/28	0.45	0.14	100
WKW200H42	731520	191/40/28	0.40	0.17	50

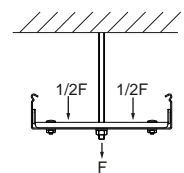
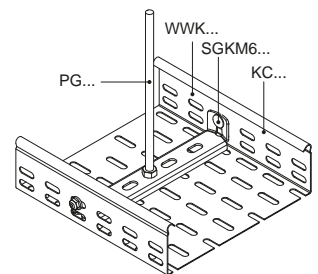
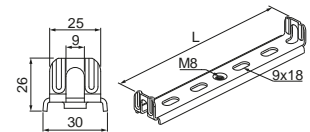


Central Hanger		WKW...H50	mat.: S	option: FP, E, L	
code	catalogue number	dimension L/H/a [mm]	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 2.0 mm					
WKW50H50	731605	41/48/28	0.80	0.08	100
WKW100H50	731610	91/48/28	0.60	0.11	100
WKW150H50	731615	141/48/28	0.45	0.15	50
WKW200H50	731620	191/48/28	0.40	0.18	50



Central Hanger		WKW...H60	mat.: S	option: FP, E, L	
code	catalogue number	dimension L/H/a [mm]	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 2.0 mm					
WKW100H60	731710	91/58/28	0.60	0.12	100
WKW150H60	731715	141/58/28	0.45	0.16	50
WKW200H60	731720	191/58/28	0.40	0.19	50

Central Hanger		WWK...	mat.: S	option: FP, E, L	
code	catalogue number	dimension L [mm]	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 2.0 mm					
WWK50	731405	47	0.80	0.07	100
WWK100	731410	97	0.60	0.10	100
WWK150	731415	147	0.45	0.14	100
WWK200	731420	197	0.40	0.17	50



Use:
Suspending cable trays on a single rod.

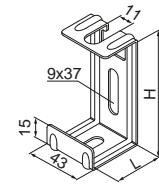
Side Holder

WC...

mat.: S

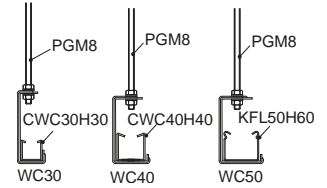
option: FP, E, L

code	catalogue number	internal dim. L/H [mm]	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 2.0 mm					
WC30	730204	32/102	0.30	0.08	100
WC40	730104	45/88	0.25	0.09	100
WC50	730304	55/88	0.22	0.10	100



Use:

Suspending cable trays and channels.



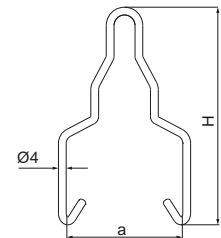
Wire hanger

WD...

mat.: G

option: FP, E, L

code	catalogue number	dimension a/H [mm]	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
WD40	900000	40/127	0.90	0.03	100
WD50	910000	50/127	0.90	0.03	100
WD60	920000	60/115	0.55	0.03	100
WD100	940000	100/130	0.40	0.03	100



Use:

Suspending cable trays and sections

Additional information:

- WD40 hanger fits channels with the width of 40 and 41 mm
- WD50 hanger fits cable trays and channels with the width of 50 mm
- WD60 hanger fits mesh trays with the width of 60 mm
- WD100 hanger fits cable trays, mesh trays and channels with the width of 100 mm



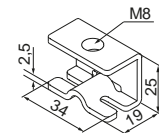
Stiffening Connector

LUWD

mat.: S

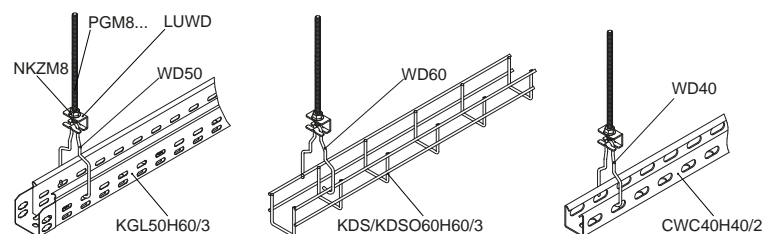
option: FP, E, L

code	catalogue number	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
LUWD	920100	0.55	0.03	100

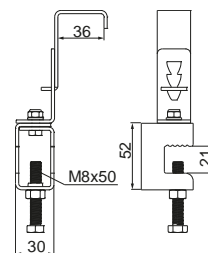


Use:

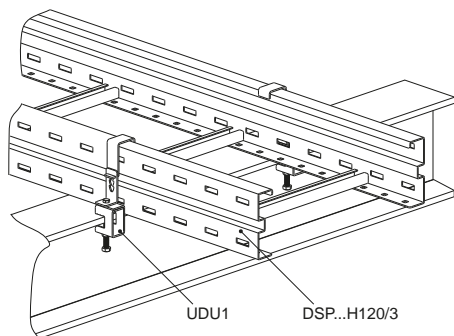
Enables mounting WD... hanger to the ceiling by means of a threaded rod. The connector ensures that a rigid connection between the rod and the hanger is achieved.



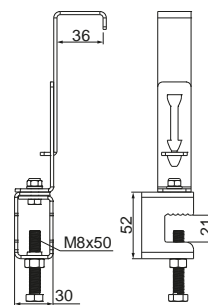
Universal Holder	UDU1	mat.: FP		
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]	
UDU1	751626	0.23	10	



Use:
Mounting trays and self-supporting ladders with heights of 100, 110 and 120 mm to steel structures.



Universal Holder	UDU2	mat.: FP		
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]	
UDU2	751627	0.25	10	



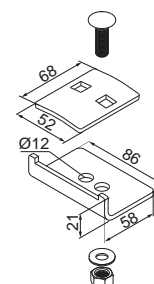
Use:
Mounting trays and self-supporting ladders with heights of 150, 160 and 200 mm to steel structures.

Additional information:

- easy and quick mounting trays and self-supporting ladders on steel free standing structures
- top rotating part allows for symmetrical mounting brackets (in one line)



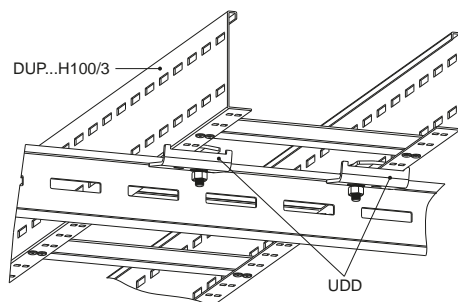
Holder	UDD	mat.: FP		
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]	
Material thickness = 4.0 mm				
UDD	751625	0.29	10	



Use:
Mounting cable and self-supporting ladders to steel structures.

Additional information:

- CAUTION! Clamping bracket complete with SGFM10x40 bolt





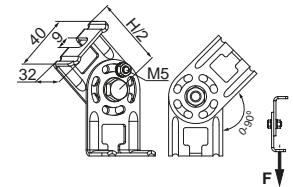
Articulated rod hanger

WPPG

mat.: S

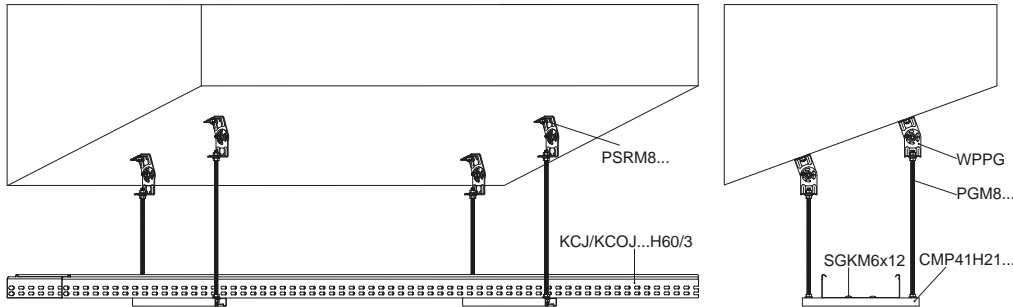
option: FP, E, L

code	catalogue number	dimension H [mm]	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package
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Material thickness = 2.0 mm

WPPG	731400	93	1.50	0.14	100
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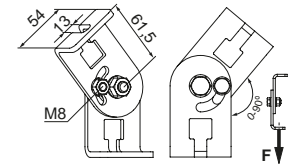
Articulated rod hanger

WPPGV/WPPOV

mat.: FP

option: E, L

code	catalogue number	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
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Material thickness = 5.0 mm

WPPGV/WPPOV	731401	3.50	0.41	50
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Use:

Suspending cable routes to walls and ceilings led at an angle.



Rod hanger

WZ

mat.: S

option: FP, E, L

code	catalogue number	load max. F_{max} [kN]	quantity per package [pcs.]
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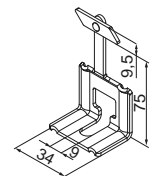
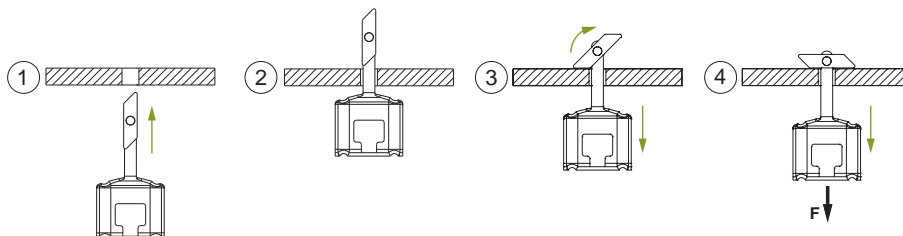
WZ	731207	0.30	100
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Use:

Used as an element for suspending low-load cable routes with threaded rods.

Additional information:

- for mounting, drill a hole with a diameter of 10 mm



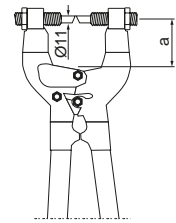


Bolt Cutter		DDB			
code	catalogue number	dimension a [mm]	max. opening value [mm]	hole diameter [mm]	quantity per package [pcs.]
DDB	700000	33	70	11	1

Bolt Cutter		DBD			
code	catalogue number	dimension a [mm]	max. opening value [mm]	hole diameter [mm]	quantity per package [pcs.]
DBD	700200	90	130	11	1

Use:
Making holes in trapezoidal sheets. Especially useful for quick mounting "WT" hangers.

- Additional information:**
- max. sheet thickness 1.2 mm
 - See: Instructions for using the trapezoidal sheet metal punch



Zinc Spray		FCA	
code	catalogue number	volume 1 pc. [ml]	quantity per package [pcs.]
FCA	650000	400	6

Use:
Surface protection against corrosion.



Zinc paste		WSZINK...		quantity per package [pcs.]
code	catalogue number	contents [ml]		
WSZINK1000	650001	1000		1
WSZINKS400	650003	400		1
WSZINK250	650002	250		1



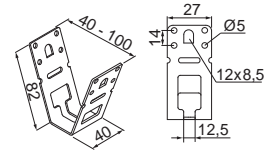
Use:
Effective corrosion protection.

- Additional information:**
- WSZINKS400 – spray paste
 - effective corrosion protection
 - various capacities to suit customer needs
 - aerosol version makes it easy to spread the paste quickly
 - very high zinc content ~75% (more than 90% in pigment)
 - information about the availability of a particular product is provided by the sales department.

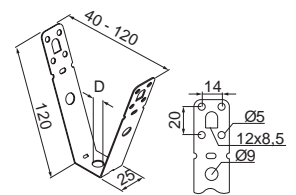




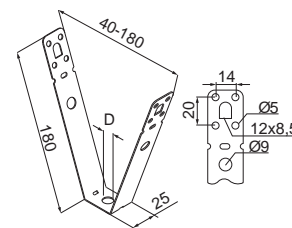
Trapezoidal Ceiling Bracket		WT80	mat.: S	option: FP, E, L
code	catalogue number		load max. F_{max} [kN]	quantity per package [pcs.]
WT80	730408		1.20	100



Trapezoidal Ceiling Bracket		WT/WTO120...	mat.: S	option: FP, E, L
code	catalogue number	dimension D [mm]	load max. F_{max} [kN]	quantity per package [pcs.]
WT/WTO120M6	730512	M6	1.20	100
WT/WTO120M8	730612	M8	1.20	100
WT/WTO120M10	730812	M10	1.20	100
WT/WTO120Ø11	730712	Ø11	1.20	100



Trapezoidal Ceiling Bracket		WT180...	mat.: S	option: FP, E, L
code	catalogue number	dimension D [mm]	load max. F_{max} [kN]	quantity per package [pcs.]
WT180M6	730818	M6	1.20	50
WT180M8	730918	M8	1.20	50
WT180Ø11	731018	Ø11	1.20	50

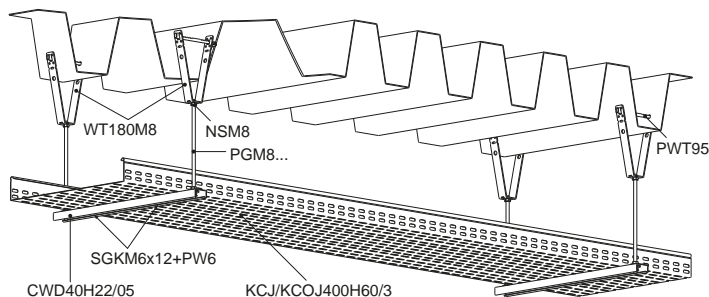


Use:

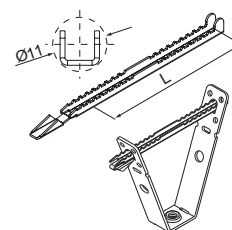
Mounting to structure, ceiling. Suspensions of cable routes, lamps, sections to typical trapezoidal sheets.

Additional information:

- use the PWT... or PGM8 rod with washers and nuts for mounting to trapezoidal sheet metal

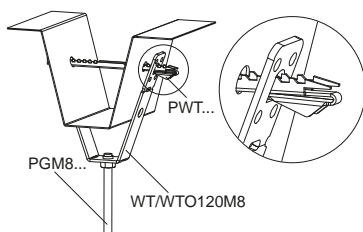


Suspension Pin		PWT...	mat.: S	option: FP, E, L
code	catalogue number	dimension L [mm]	load max. F_{max} [kN]	quantity per package [pcs.]
PWT55	731105	55	0.60	200
PWT95	731109	95	0.60	200
PWT130	731113	130	0.60	200



Use:

Element connecting the hanger to the trapezoidal sheet. Allows for quick mounting. Fits all hangers.



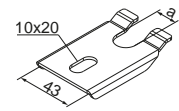


Channel Hanger

UPNC...

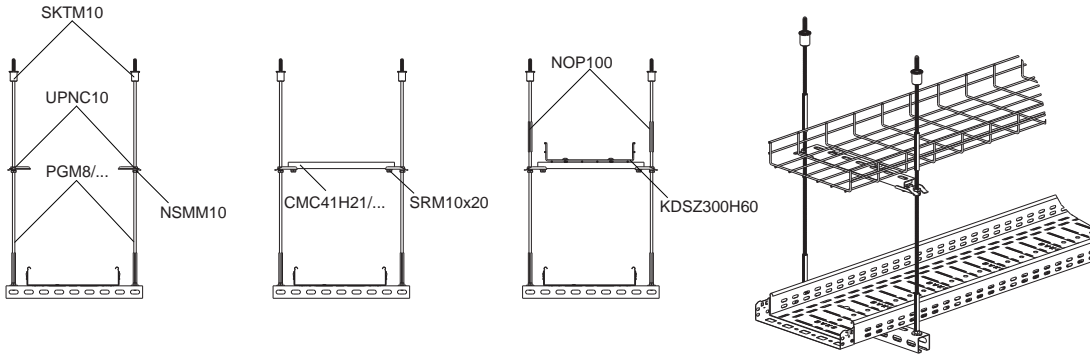
mat.: S option: FP, E, L

code	catalogue number	dimension a [mm]	quantity per package [pcs.]
UPNC6	652006	12	10
UPNC8	652008	16	10
UPNC10	652010	17	10
UPNC12	652012	20.5	10



Additional information:

- fits channels with the width of 40 and 41 mm
- product suitable for NSM... nut

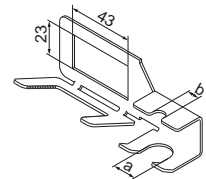


Channel Hanger

UPNDP...

mat.: S option: FP, E, L

code	catalogue number	dimension a/b [mm]	quantity per package [pcs.]
UPNDP6	662006	12/7	10
UPNDP8	662008	16/9	10
UPNDP10	662010	17/11	10
UPNDP12	662012	20.5/13	10

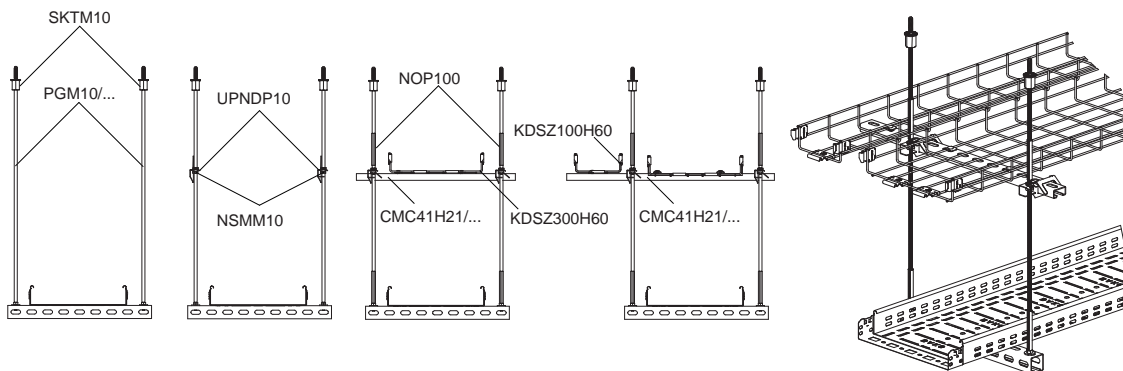


Use:

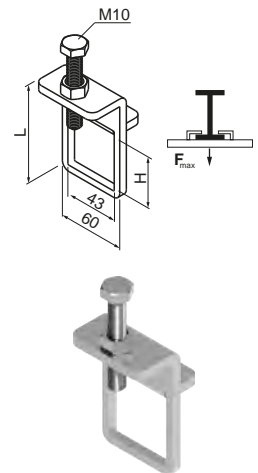
Extension of existing cable routes suspended on threaded rods.

Additional information:

- fits channels 40-41 mm wide and 21-22 mm high
- product suitable for NSM... nut

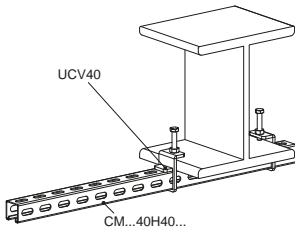


Channel holder	UCV...	mat.: FP	option: E, L		
code	catalogue number	dimension L/H [mm]	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 5.0 mm					
UCV22	750421	62/24	2.50	0.18	100
UCV41	750422	80/42	2.50	0.19	50
UCV60	752423	100/61	2.50	0.20	50

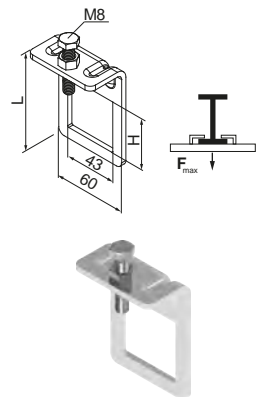


Additional information:

- UCV22 fits channels: CM...41H21, CW...40H22
- UCV40 fits channels: CM...41H41, CMM...40H40, CTM...40H40, CW...40H40
- UCV60 fits channels: CM...40H60, CTM...40H60



Channel holder	UC...	mat.: FP	option: E, L		
code	catalogue number	dimension L/H [mm]	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 4.0 mm					
UC22	752401	62/24	2.00	0.15	100
UC40	752402	80/42	2.00	0.16	50
UC60	752403	100/61	2.00	0.17	50

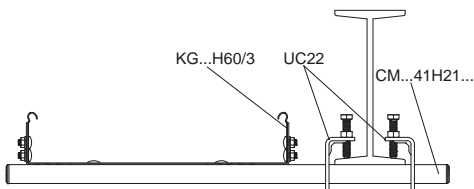


Use:

Suspending cable routes.

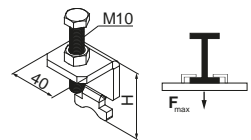
Additional information:

- UC22 fits channels: CM...41H21, CW...40H22
- UC40 fits channels: CM...41H41, CMM...40H40, CTM...40H40, CW...40H40
- UC60 fits channels: CM...40H60, CTM...40H60





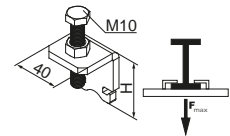
Mounting channel bracket		UCM...	mat.: FP	option: E, L	
code	catalogue number	dimension H [mm]	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 6.0 mm					
UCM3	752406	50	2.00	0.19	30
Material thickness = 8.0 mm					
UCM4	752407	54	3.60	0.23	30



Additional information:

- UCM3 and UCM4 fit into channels: CM...41H21, CM...41H41, CMM...40H40, CM...40H60, CM...40H80, CTM...40H40, CTM...40H60, CTM...40H80.

Beam Clamp		UCW...	mat.: FP	option: E, L	
code	catalogue number	dimension H [mm]	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 6.0 mm					
UCW1	752408	46	2.00	0.18	30
Material thickness = 8.0 mm					
UCW2	752409	50	2.50	0.22	30

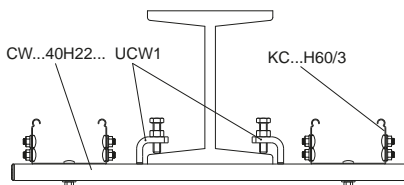


Use:

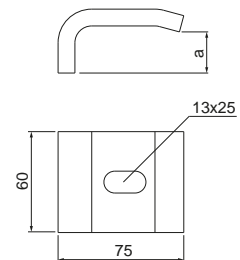
Suspending cable routes.

Additional information:

- UCW1 and UCW2 fit into channels: CW...40H22, CW...40H35, CW...40H40



Holder		UDCN...	mat.: FP	option: E, L	
code	catalogue number	dimension a [mm]	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 10.0 mm					
UDCN20	750820	20	10.00	0.40	10
UDCN25	750825	25	10.00	0.43	10
UDCN30	750830	30	10.00	0.45	10
UDCN40	750840	40	10.00	0.50	10



Use:

Suspending cable routes to steel structures using channels.

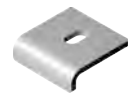
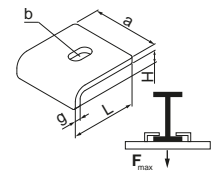
Additional information:

- selection of brackets depends on the thickness of the purlin

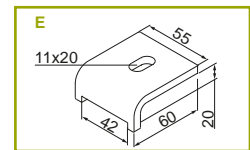
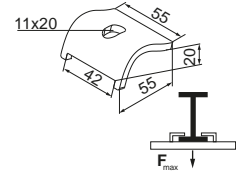




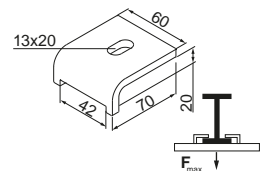
Holder	UD...	mat.: FP	option: E, L		
code	catalogue number	dimension a/L/H/b [mm]	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 5.0 mm					
UD	750706	30/60/12/11x20	1.80	0.07	100
UD1	751206	60/60/12/11x20	4.00	0.15	50
UD2	751306	60/60/20/11x20	4.00	0.20	50
Material thickness = 8.0 mm					
UD3	751406	60/70/20/13x20	6.00	0.32	30
UD4	751606	80/70/28/13x20	6.50	0.42	25



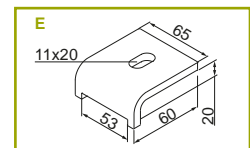
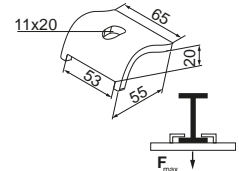
Holder	UDC	mat.: FP	option: E, L		
code	catalogue number	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]	
Material thickness = 6.0 mm					
UDC	750806	4.00	0.16	50	



Holder	UDC1	mat.: FP	option: E, L		
code	catalogue number	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]	
Material thickness = 8.0 mm					
UDC1	751506	6.00	0.24	30	

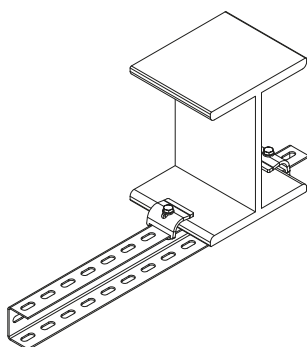


Holder	UDC50	mat.: FP	option: E, L		
code	catalogue number	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]	
Material thickness = 6.0 mm					
UDC50	750908	4.00	0.20	50	



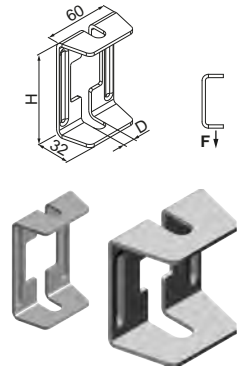
Use:
Suspending cable routes to steel structures using channels.

Additional information:
- E - made of stainless steel

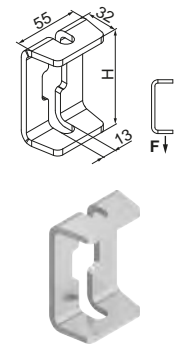




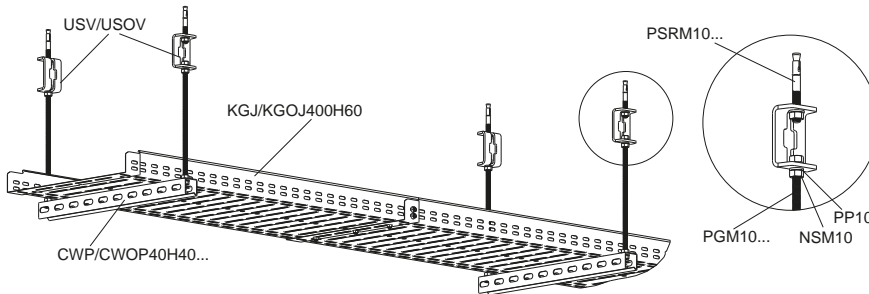
Rod Hanger		US...	mat.: S	option: FP, E, L	
code	catalogue number	dimension D/H [mm]	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 2.0 mm					
US9	750708	9/50	1.60	0.10	100
Material thickness = 3.0 mm					
US12/USO12	750508	12/80	1.50	0.14	100



Rod Hanger		USV/USOV	mat.: FP	option: E, L	
code	catalogue number	dimension H [mm]	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 5.0 mm					
USV/USOV	750709	80	3.50	0.21	50

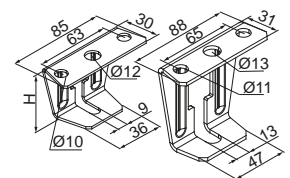
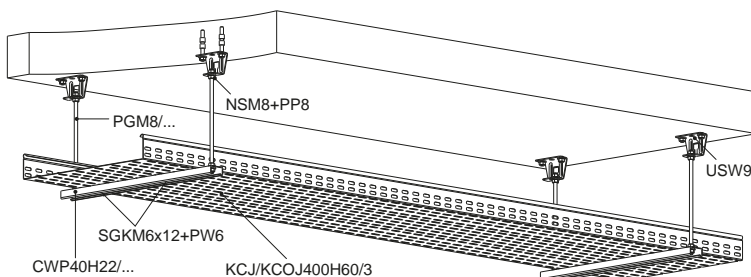


Use:
Suspending cable routes to the ceiling using a rod.



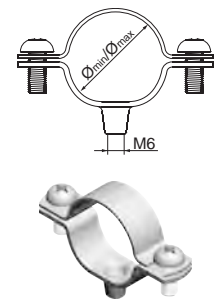
Rod Hanger		USW...	mat.: S	option: FP, E, L	
code	catalogue number	dimension H [mm]	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 2.0 mm					
USW9	750808	50	2.20	0.12	50
Material thickness = 3.0 mm					
USW12	750608	80	2.00	0.16	50

Use:
Suspending cable routes.





Cable Clip	KSA...	mat.: G	option: E, L	
code	catalogue number	dimension $\varnothing_{min} / \varnothing_{max}$ [mm]	quantity per package [pcs.]	
Material thickness = 1.0 mm				
KSA6	805106	5/6	100	
KSA8	805108	7/8	100	
KSA10	805110	9/10	100	
KSA12	805112	11/12	100	
KSA14	805114	13/14	100	
KSA16	805116	15/16	100	
KSA18	805118	17/18	100	
KSA20	805120	19/20	100	
KSA22	805122	21/22	100	
KSA24	805124	24/25	100	
KSA25	805125	25/26	100	
KSA26	805126	26/27	100	
KSA28	805128	28/29	100	
KSA32	805132	31/32	100	
KSA35	805135	34/35	100	
KSA37	805136	36/37	100	
KSA40	805140	39/40	100	
KSA42	805142	41/43	100	
KSA47	805148	45/47	100	
KSA50	805150	49/51	100	
KSA55	805155	51/55	100	



Additional information:

- use SRBOM6x30 anchor bolt or PGM6 threaded rod with TRSM6 or TRSOM6 expansion sleeve for mounting

Cable Clip	UDF...	mat.: G	option: FP, L	
code	catalogue number	dimension D [mm]	quantity per package [pcs.]	
Material thickness = 1.2 mm				
UDF5	405505	5	100	
UDF6	405506	6	100	
UDF7	405507	7	100	
UDF8	405508	8	100	
UDF9	405509	9	100	
UDF10	405510	10	100	
UDF12	405512	12	100	
UDF14	405514	14	100	
Material thickness = 2.0 mm				
UDF15	405515	15	100	
UDF16	405516	16	100	
UDF18	405518	18	100	
UDF20	405520	20	100	
UDF22	405522	22	100	
UDF25	405525	25	100	
UDF26	405526	26	100	
UDF28	405528	28	100	
UDF32	405532	32	100	
UDF33	405533	33	100	
UDF35	405535	35	100	
UDF36	405536	36	100	
UDF40	405540	40	100	
UDF42	405542	42	100	



Use:

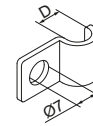
Direct fixing of cables to walls and ceilings.



SUPPORTING AND ASSEMBLY ELEMENTS - HANGERS AND HANDLES

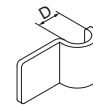


Cable Clip	UDF...E	mat.: E	option:
code	catalogue number	dimension D [mm]	quantity per package [pcs.]
Material thickness = 1.2 mm			
UDF5E	415505	5	100
UDF6E	415506	6	100
UDF7E	415507	7	100
UDF8E	415508	8	100
UDF9E	415509	9	100
UDF10E	415510	10	100
UDF12E	415512	12	100
UDF14E	415514	14	100
Material thickness = 2.0 mm			
UDF15E	415515	15	100
UDF16E	415516	16	100
UDF18E	415518	18	100
UDF20E	415520	20	100
UDF22E	415522	22	100
UDF25E	415525	25	100
UDF26E	415526	26	100
UDF28E	415528	28	100
UDF32E	415532	32	100
UDF33E	415533	33	100
UDF35E	415535	35	100
UDF36E	415536	36	100
UDF40E	415540	40	100
UDF42E	415542	42	100



Use:
Direct fixing of cables to walls and ceilings.

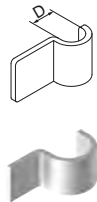
Cable Clip	UDFB...	mat.: G	option: FP, L
code	catalogue number	dimension D [mm]	quantity per package [pcs.]
Material thickness = 1.2 mm			
UDFB5	425505	5	100
UDFB6	425506	6	100
UDFB7	425507	7	100
UDFB8	425508	8	100
UDFB9	425509	9	100
UDFB10	425510	10	100
UDFB12	425512	12	100
UDFB14	425514	14	100
Material thickness = 2.0 mm			
UDFB15	425515	15	100
UDFB16	425516	16	100
UDFB18	425518	18	100
UDFB20	425520	20	100
UDFB22	425522	22	100
UDFB25	425525	25	100
UDFB26	425526	26	100
UDFB28	425528	28	100
UDFB32	425532	32	100
UDFB33	425533	33	100
UDFB35	425535	35	100
UDFB36	425536	36	100
UDFB40	425540	40	100
UDFB42	425542	42	100



Use:
Direct fixing of cables to walls and ceilings with the use of shot fired studs.

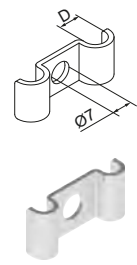


Cable Clip	UDFB...E	mat.: E		
code	catalogue number	dimension D [mm]	quantity per package [pcs.]	
Material thickness = 1.2 mm				
UDFB5E	425605	5	100	
UDFB6E	425606	6	100	
UDFB7E	425607	7	100	
UDFB8E	425608	8	100	
UDFB9E	425609	9	100	
UDFB10E	425610	10	100	
UDFB12E	425612	12	100	
UDFB14E	425614	14	100	
Material thickness = 2.0 mm				
UDFB15E	425615	15	100	
UDFB16E	425616	16	100	
UDFB18E	425618	18	100	
UDFB20E	425620	20	100	
UDFB22E	425622	22	100	
UDFB25E	425625	25	100	
UDFB26E	425626	26	100	
UDFB28E	425628	28	100	
UDFB32E	425632	32	100	
UDFB33E	425633	33	100	
UDFB35E	425635	35	100	
UDFB36E	425636	36	100	
UDFB40E	425640	40	100	
UDFB42E	425642	42	100	



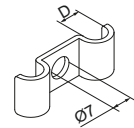
Use:
Direct fixing of cables to walls and ceilings with the use of shot fired studs.

Cable Clip	UEF...	mat.: G	option: FP, L	
code	catalogue number	dimension D [mm]	quantity per package [pcs.]	
Material thickness = 1.2 mm				
UEF5	405605	5	100	
UEF6	405606	6	100	
UEF7	405607	7	100	
UEF8	405608	8	100	
UEF9	405609	9	100	
UEF10	405610	10	100	
UEF12	405612	12	100	
UEF14	405614	14	100	
Material thickness = 2.0 mm				
UEF15	405615	15	100	
UEF16	405616	16	100	
UEF18	405618	18	100	
UEF20	405620	20	100	
UEF22	405622	22	100	
UEF25	405625	25	100	
UEF26	405626	26	100	
UEF28	405628	28	100	
UEF32	405632	32	100	
UEF33	405633	33	100	
UEF35	405635	35	100	
UEF36	405636	36	100	
UEF40	405640	40	100	
UEF42	405642	42	100	



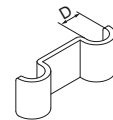
Use:
Direct fixing of cables to walls and ceilings.

Cable Clip	UEF...E	mat.: E	option:
code	catalogue number	dimension D [mm]	quantity per package [pcs.]
Material thickness = 1.2 mm			
UEF5E	415605	5	100
UEF6E	415606	6	100
UEF7E	415607	7	100
UEF8E	415608	8	100
UEF9E	415609	9	100
UEF10E	415610	10	100
UEF12E	415612	12	100
UEF14E	415614	14	100
Material thickness = 2.0 mm			
UEF15E	415615	15	100
UEF16E	415616	16	100
UEF18E	415618	18	100
UEF20E	415620	20	100
UEF22E	415622	22	100
UEF25E	415625	25	100
UEF26E	415626	26	100
UEF28E	415628	28	100
UEF32E	415632	32	100
UEF33E	415633	33	100
UEF35E	415635	35	100
UEF36E	415636	36	100
UEF40E	415640	40	100
UEF42E	415642	42	100



Use:
Direct fixing of cables to walls and ceilings.

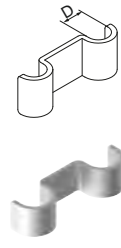
Cable Clip	UEFB...	mat.: G	option: FP, L
code	catalogue number	dimension D [mm]	quantity per package [pcs.]
Material thickness = 1.2 mm			
UEFB5	425705	5	100
UEFB6	425706	6	100
UEFB7	425707	7	100
UEFB8	425708	8	100
UEFB9	425709	9	100
UEFB10	425710	10	100
UEFB12	425712	12	100
UEFB14	425714	14	100
Material thickness = 2.0 mm			
UEFB15	425715	15	100
UEFB16	425716	16	100
UEFB18	425718	18	100
UEFB20	425720	20	100
UEFB22	425722	22	100
UEFB25	425725	25	100
UEFB26	425726	26	100
UEFB28	425728	28	100
UEFB32	425732	32	100
UEFB33	425733	33	100
UEFB35	425735	35	100
UEFB36	425736	36	100
UEFB40	425740	40	100
UEFB42	425742	42	100



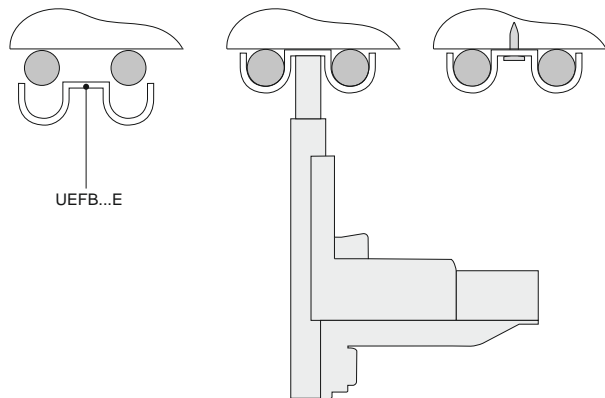
Use:
Direct fixing of cables to walls and ceilings with the use of shot fired studs.



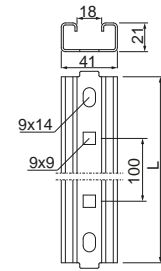
Cable Clip	UEFB...E	mat.: E		
code	catalogue number	dimension D [mm]	quantity per package [pcs.]	
Material thickness = 1.2 mm				
UEFB5E	425805	5	100	
UEFB6E	425806	6	100	
UEFB7E	425807	7	100	
UEFB8E	425808	8	100	
UEFB9E	425809	9	100	
UEFB10E	425810	10	100	
UEFB12E	425812	12	100	
UEFB14E	425814	14	100	
Material thickness = 2.0 mm				
UEFB15E	425815	15	100	
UEFB16E	425816	16	100	
UEFB18E	425818	18	100	
UEFB20E	425820	20	100	
UEFB22E	425822	22	100	
UEFB25E	425825	25	100	
UEFB26E	425826	26	100	
UEFB28E	425828	28	100	
UEFB32E	425832	32	100	
UEFB33E	425833	33	100	
UEFB35E	425835	35	100	
UEFB36E	425836	36	100	
UEFB40E	425840	40	100	
UEFB42E	425842	42	100	



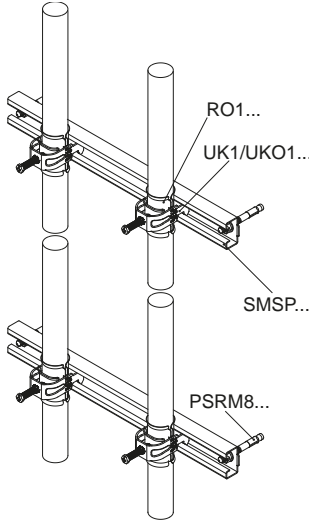
Use:
Direct fixing of cables to walls and ceilings with the use of shot fired studs.



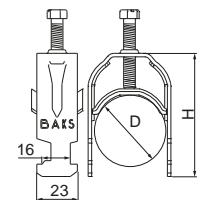
Rung	SMSP...	mat.: S	option: F, E, L		
code	catalogue number	dimension L [mm]	weight 1 pc. [kg]	quantity per package [pcs.]	
Material thickness = 1.5 mm					
SMSP200	801120	190	0.23	50	
SMSP300	801130	290	0.35	50	
SMSP400	801140	390	0.47	30	
SMSP500	801150	490	0.59	30	
SMSP600	801160	590	0.71	30	



Use:
Fixing electrical cables directly on the wall vertically or horizontally and on the ceiling with UK..., UKP..., UKZ... or UKZP... cable clamps



Cable Clip	UK1/UKO1...	mat.: FP	option: E		
code	catalogue number	dimension D _{min} /D _{max} /H [mm]	weight 1 pc. [kg]	quantity per package [pcs.]	
UK1/UKO1/8-12	404200	8/12/39	0.03	150	
UK1/UKO1/12-16	404300	12/16/43	0.04	150	
UK1/UKO1/16-22	402300	16/22/52	0.05	150	
UK1/UKO1/22-28	402400	22/28/59	0.06	150	
UK1/UKO1/28-34	402500	28/34/64	0.07	100	
UK1/UKO1/34-40	402600	34/40/70	0.08	100	
UK1/UKO1/40-46	402700	40/46/79	0.10	100	
UK1/UKO1/46-52	402800	46/52/90	0.11	100	
UK1/UKO1/52-58	402850	52/58/95	0.12	100	
UK1/UKO1/58-64	402900	58/64/99	0.13	100	
UK1/UKO1/64-70	404000	64/70/105	0.14	100	



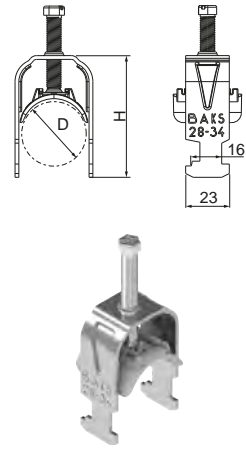
Use:
Cable mounting for DF..., DU..., DS... ladders, vertical ladders, SDOC..., SMSP... rungs as well as CMS...41H21 channels.

Additional information:

- RO1 protective trays are recommended



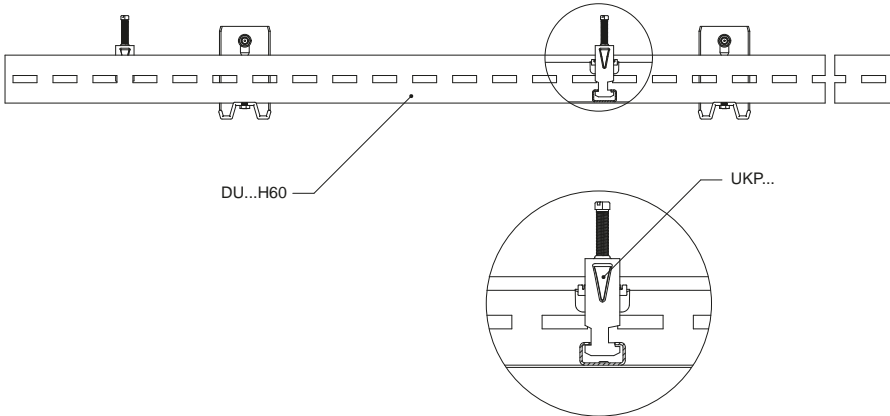
Cable holder with plastic shell UKP1...		mat.: FP	option: E	
code	catalogue number	dimension D _{min} /D _{max} /H [mm]	weight 1 pc. [kg]	quantity per package [pcs.]
UKP1/8-12	425843	8/12/39	0.03	150
UKP1/12-16	425844	12/16/43	0.04	150
UKP1/16-22	425845	16/22/52	0.05	150
UKP1/22-28	425846	22/28/59	0.06	150
UKP1/28-34	425847	28/34/64	0.07	100
UKP1/34-40	425848	34/40/70	0.08	100
UKP1/40-46	425849	40/46/79	0.10	100
UKP1/46-52	425850	46/52/90	0.11	100
UKP1/52-58	425851	52/58/95	0.12	100
UKP1/58-64	425852	58/64/99	0.13	100
UKP1/64-70	425853	64/70/105	0.14	100



Use:
Cable mounting for DF..., DU..., DS... ladders, vertical ladders, SDOC..., SMSP... rungs as well as CMS...41H21 channels.

Additional information:

- bracket shell is made of polyethylene
- RO1 protective trays are recommended
- SUKP... cable separators are recommended





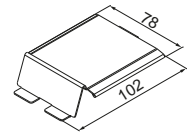
Barrier of Cable Clamp OZ/OZO POZ

code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 1.5 mm			
POZ	752416	0.02	50

Use:
Allows separation of cables in the OZ/OZO clamp.

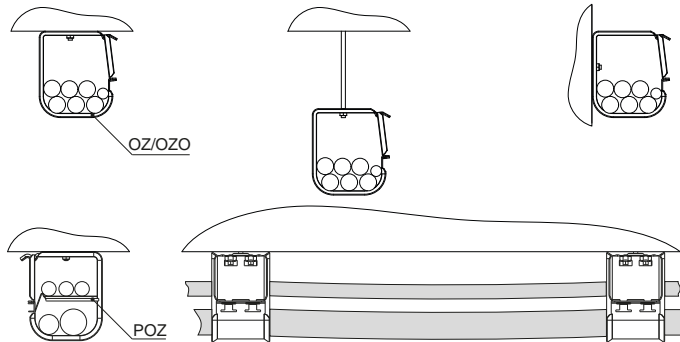
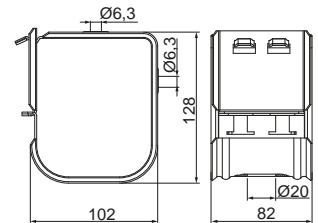
Additional information:

- the use of a divider makes it possible to separate cable bundles according to their purpose



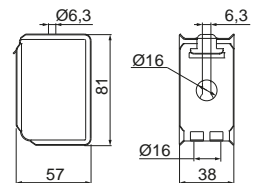
Cable Hanger OZ/OZO

code	catalogue number	load max. F_{max} [kN/m]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 1.5 mm				
OZ/OZO	752400	0.06	0.38	50



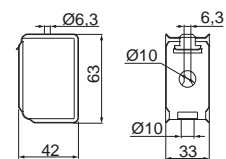
Cable Hanger OZS/OZSO

code	catalogue number	load max. F_{max} [kN/m]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 1.2 mm				
OZS/OZSO	752500	0.02	0.12	100



Cable Hanger OZM/OZMO

code	catalogue number	load max. F_{max} [kN/m]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 0.7 mm				
OZM/OZMO	753200	0.01	0.08	100

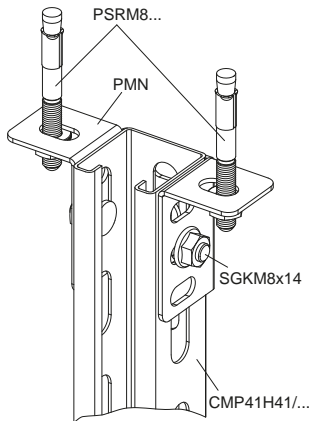
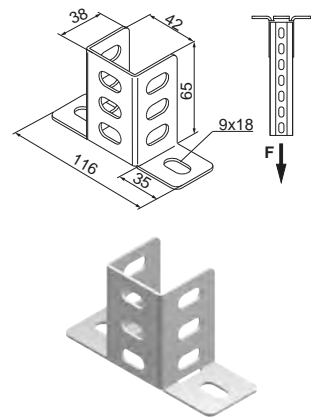


Use:
Suspending cable cables to the ceiling and wall.

Additional information:

- direct mounting with: SRBOM6x30 + NSM6 + PP6, KWBO6x35 or KWBO6x40, GSO6x40, KSKOM6, KKG5x37 or KKG5x65, MKR6x32, PSROM6x45 or PSROM6x50.
- indirect mounting using PGM6 threaded rod/... + NSM6 + PP6 and M6 expansion sleeves
- snap clamp closing for easy adding or replacing cables

Base Plate	PMN	mat.: S	option: FP, E, L
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 2.0 mm			
PMN	740807	0.16	50

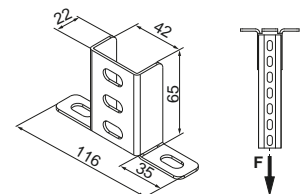


Base Plate	PMTN	mat.: S	option: FP, E, L
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 3.0 mm			
PMTN	740907	0.24	50

Additional information:

– fits channels: CW...40H35..., CW...40H40... and CM...41H41...

Base Plate	PMMN	mat.: S	option: FP, E, L
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 2.0 mm			
PMMN	741007	0.14	50



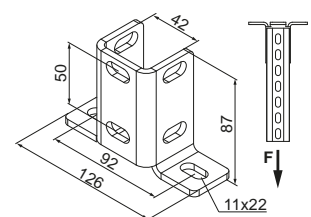
Base Plate	PMMTN	mat.: S	option: FP, E, L
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 3.0 mm			
PMMTN	741107	0.21	50

Additional information:

– fits C...40H20..., CW...40H22..., CMS...41H21..., CM...41H21... and CM...41H21...F channels



Base Plate	PMVN	mat.: FP	option: E, L	
code	catalogue number	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 5.0 mm				
PMVN	741207	7.00	0.48	30



Use:

Suspending cable routes.

Additional information:

– fits channels: CW...40H35..., CW...40H40... and CM...41H41...

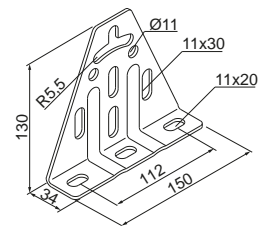




SUPPORTING AND ASSEMBLY ELEMENTS - MOUNTING AND CEILING BASES



Fastening Bracket	PST	mat.: S	option: FP, E, L	
code	catalogue number	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 3.0 mm				
PST	740710	3.50	0.39	40

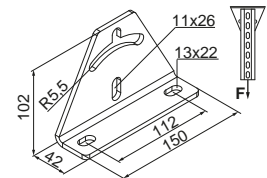


Use:
Suspending cable routes to the ceiling using channels.

Additional information:

- can be mounted to ceilings at an angle

Fastening Bracket	PSTV	mat.: FP	option: E, L	
code	catalogue number	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 5.0 mm				
PSTV	740711	7.00	0.53	20



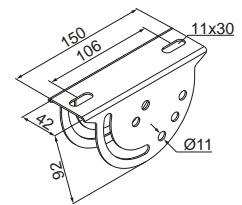
Use:
Suspending cable routes to the ceiling using channels.

Additional information:

- can be mounted to ceilings at an angle



Head Plate - Variable	PSUN	mat.: S	option: FP, E, L
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 2.0 mm			
PSUN	741520	0.45	30

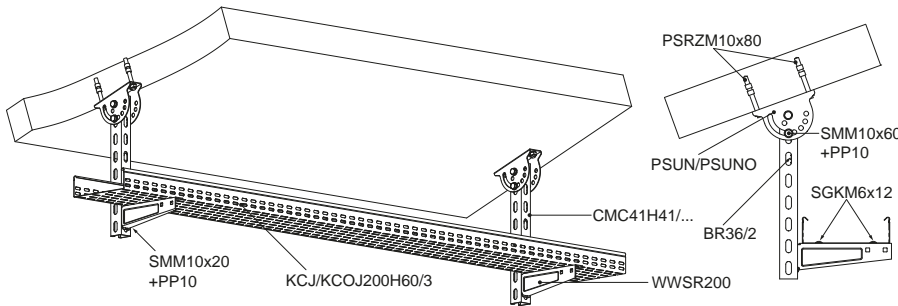


Use:

Suspending cable routes to the ceiling using channels.

Additional information:

- fits channels: CW...40H35..., CW...40H40... and CM...41H41...
- can be mounted to ceilings at an angle
- smooth and forced angle adjustment
- when installing channels, it is recommended to use BR... spacer



Ceiling bracket loading table.

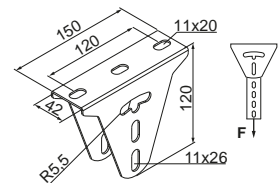
L - length of bracket,

F_{max} - maximum load = cable weight + cable tray/cable ladder + ceiling bracket + bracket without the weight of a technician.

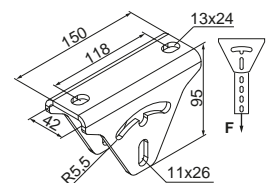
For double-sided loading of the bracket, the values should be doubled (the load must be uniform).

	L [mm]	100	200	300	400
	F _{max} [kN]	1,10	0,95	0,80	0,70
	L [mm]	100	200	300	400
	F _{max} [kN]	1,10	0,95	0,80	0,70
	L [mm]	100	200	300	400
	F _{max} [kN]	1,65	1,50	1,30	1,10

Head Plate - Variable	PSU	mat.: S	option: FP, E, L	
code	catalogue number	load max. F _{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 2.0 mm				
PSU	740610	3.50	0.41	30



Head Plate - Variable	PSUV	mat.: FP	option: E, L	
code	catalogue number	load max. F _{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 5.0 mm				
PSUV	740611	7.00	0.76	20



Use:

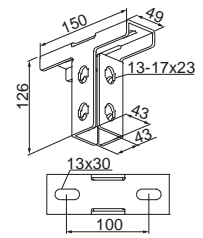
Suspending cable routes to the ceiling using channels.

Additional information:

- fits channels: CW...40H35..., CW...40H40... and CM...41H41...
- can be mounted to ceilings at an angle
- smooth angle adjustment.
- when installing channels, it is recommended to use BR... spacer



Head Plate	PSB	mat.: FP	option: E, L	
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]	N
PSB	714123	0.78	10	



Use:
Suspending cable routes based on double channels.

Additional information:

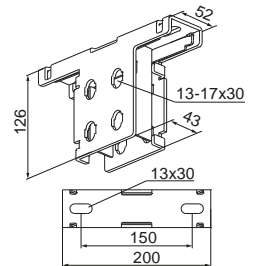
- fits CMPC41H42 and CMPM41H42 channels (slide-in)
- additional element for the system
- extra durable base for the new 41H42 double channels
- special design protects the channel from deformation and reduces mounting time
- mounting of the wall brackets to the open side of the channel, possibility of stepless adjustment

Ceiling bracket loading table.

A - single-sided load, **B** - double-sided load, **L** - length of bracket,
Fmax. - maximum load = cable weight + cable tray/cable ladder without the weight of a technician.
For double-sided loading of the bracket, the values should be doubled (the load must be uniform).

A							
	L [mm]	100	200	300	400	500	600
	Fmax. [kN]	1,90	1,70	1,30	1,10	1,00	0,90
B							
	L [mm]	100	200	300	400	500	600
	Fmax. [kN]	2,80	2,50	2,20	2,00	1,80	1,60

Head Plate with Barrier Strip	PSBR	mat.: FP	option: E, L	
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]	N
PSBR	714181	1.17	20	



Use:
Suspending cable routes based on double channels.

Additional information:

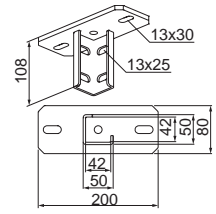
- fits CMPC41H82 and CMPM41H82 channels (slide-in)
- additional element for the system
- extra durable base for the new 41H82 double channels
- spacer integrated in the base protects the channel from deformation and reduces mounting time
- possibility of installing wall brackets on each side of the channels (also open which gives the possibility of stepless adjustment)

Ceiling bracket loading table.

A - single-sided load, **B** - double-sided load, **L** - length of bracket,
Fmax. - maximum load = cable weight + cable tray/cable ladder without the weight of a technician.
For double-sided loading of the bracket, the values should be doubled (the load must be uniform).

A							
	L [mm]	100	200	300	400	500	600
	Fmax. [kN]	5,50	4,60	3,80	3,20	2,80	2,50
B							
	L [mm]	100	200	300	400	500	600
	Fmax. [kN]	7,80	7,20	6,80	6,10	5,70	5,40

Head Plate	PSKK	mat.: F	option: E, L	
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]	N
PSKK	714124	1.27	10	



Use:

Suspending cable routes.

Additional information:

- fits CM...41H41 (slide inside angle profile) and CC55H50 (slide on angle profile) channels

Ceiling bracket loading table.

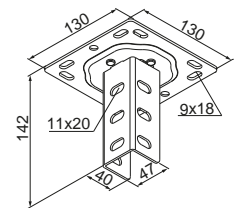
A - single-sided load, **B** - double-sided load, **L** - length of bracket,

Fmax. - maximum load = cable weight + cable tray/cable ladder without the weight of a technician.

For double-sided loading of the bracket, the values should be doubled (the load must be uniform).

A							
	L [mm]	100	200	300	400	500	600
	Fmax. [kN]	1,80	1,60	1,20	1,00	0,90	0,80
B							
	L [mm]	100	200	300	400	500	600
	Fmax. [kN]	2,60	2,30	2,00	1,80	1,60	1,40

Head Plate	PSN	mat.: S	option: FP, E, L	
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]	
PSN	740410	0.49	50	



Use:

Suspending cable routes.

Additional information:

- fits channels: CW...40H35..., CW...40H40... and CM...41H41...
- the arrangement of the bean holes in the base allows the base to be mounted in four positions

Ceiling bracket loading table.

A - single-sided load, **B** - double-sided load, **L** - length of bracket,

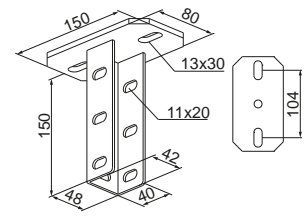
Fmax. - maximum load = cable weight + cable tray/cable ladder without the weight of a technician.

For double-sided loading of the bracket, the values should be doubled (the load must be uniform).

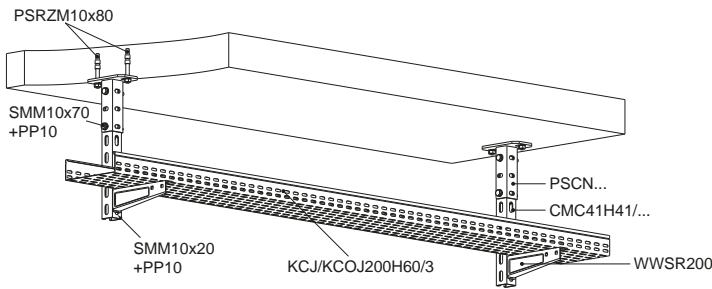
A				
	L [mm]	100	200	300
	Fmax. [kN]	0,25	0,20	0,15
B				
	L [mm]	100	200	300
	Fmax. [kN]	0,45	0,35	0,25



Head Plate	PSCN	mat.: F	option: E, L	
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]	
PSCN	751210	0.80	30	



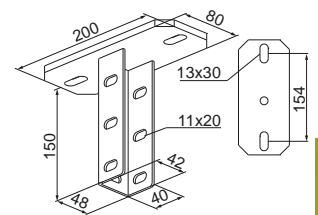
Use:
Suspending heavy cable routes.



Ceiling bracket loading table.
A - single-sided load, **B** - double-sided load, **L** - length of bracket,
Fmax. - maximum load = cable weight + cable tray/cable ladder without the weight of a technician.
 For double-sided loading of the bracket, the values should be doubled (the load must be uniform).

A							
	L [mm]	100	200	300	400	500	600
	Fmax. [kN]	1,80	1,60	1,20	1,00	0,90	0,80
B							
	L [mm]	100	200	300	400	500	600
	Fmax. [kN]	2,60	2,30	2,00	1,80	1,60	1,40

Head Plate	PSDN	mat.: F	option: E, L	
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]	
PSDN	751410	0.90	20	



Use:
Suspending heavy cable routes.

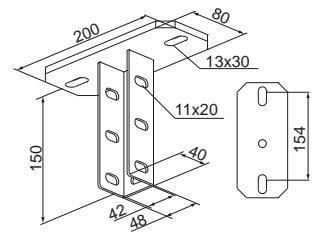
Ceiling bracket loading table.
A - single-sided load, **B** - double-sided load, **L** - length of bracket,
Fmax. - maximum load = cable weight + cable tray/cable ladder without the weight of a technician.
 For double-sided loading of the bracket, the values should be doubled (the load must be uniform).

A							
	L [mm]	100	200	300	400	500	600
	Fmax. [kN]	1,90	1,70	1,30	1,10	1,00	0,90
B							
	L [mm]	100	200	300	400	500	600
	Fmax. [kN]	2,80	2,50	2,20	2,00	1,80	1,60





Head Plate	PSDDN	mat.: F	option: E, L	
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]	
PSDDN	751510	0.90	20	



Use:
Suspending heavy cable routes.

Additional information:

– fits channels: C...55H50/..., CW...40H40/... and CM...41H41/...

Ceiling bracket loading table.

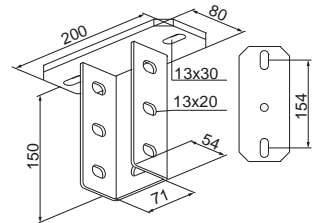
A - single-sided load, **B** - double-sided load, **L** - length of bracket,

F_{max} - maximum load = cable weight + cable tray/cable ladder without the weight of a technician.

For double-sided loading of the bracket, the values should be doubled (the load must be uniform).

A							
	L [mm]	100	200	300	400	500	600
	F _{max} [kN]	1,90	1,70	1,30	1,10	1,00	0,90
B							
	L [mm]	100	200	300	400	500	600
	F _{max} [kN]	2,80	2,50	2,20	2,00	1,80	1,60

Head Plate	PSEN	mat.: F	option: E, L	
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]	
PSEN	741620	2.67	10	



Use:
Suspending heavy cable routes.

Additional information:

– fits C...70H50/... channels

Ceiling bracket loading table.

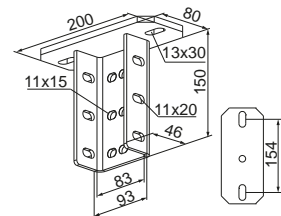
A - single-sided load, **B** - double-sided load, **L** - length of bracket,

F_{max} - maximum load = cable weight + cable tray/cable ladder without the weight of a technician.

For double-sided loading of the bracket, the values should be doubled (the load must be uniform).

A							
	L [mm]	100	200	300	400	500	600
	F _{max} [kN]	5,50	4,60	3,80	3,20	2,80	2,50
B							
	L [mm]	100	200	300	400	500	600
	F _{max} [kN]	7,80	7,20	6,80	6,10	5,70	5,40

Head Plate	PSM	mat.: F	option: E, L	
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]	
PSM	741621	2.67	10	



Use:
Suspending heavy cable routes.

Additional information:

– fits channel: CTMT40H80/... and CMT40H80/...N.

Ceiling bracket loading table.

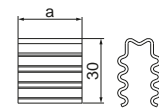
A - single-sided load, **B** - double-sided load, **L** - length of bracket,

F_{max} - maximum load = cable weight + cable tray/cable ladder without the weight of a technician.

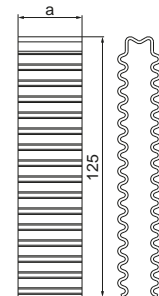
For double-sided loading of the bracket, the values should be doubled (the load must be uniform).

A							
	L [mm]	100	200	300	400	500	600
	F _{max} [kN]	5,50	4,60	3,80	3,20	2,80	2,50
B							
	L [mm]	100	200	300	400	500	600
	F _{max} [kN]	7,80	7,20	6,80	6,10	5,70	5,40

Spacer	BR.../1	mat.: S	option: FP, E, L
code	catalogue number	dimension a [mm]	quantity per package [pcs.]
Material thickness = 1.0 mm			
BR33/1	704011	33	50
BR34/1	704141	34	50
BR35/1	704131	35	50
BR36/1	704121	36	50
BR37/1	704111	37	50
BR45/1	704145	45	50
BR48/1	705521	48	50
BR50/1	705511	49	50
BR51/1	705911	51	50
BR53/1	706021	53	50
BR54/1	706122	54	50
BR61/1	707021	61	50
BR63/1	707011	63	50



Base spacer	BR.../2	mat.: S	option: FP, E, L
code	catalogue number	dimension a [mm]	quantity per package [pcs.]
Material thickness = 1.0 mm			
BR33/2	704012	33	50
BR34/2	704142	34	50
BR35/2	704132	35	50
BR36/2	704122	36	50
BR37/2	704112	37	50
BR45/2	705545	45	50
BR48/2	705522	48	50
BR50/2	705512	50	50
BR51/2	705912	51	50
BR53/2	706022	53	50
BR54/2	706123	54	50
BR61/2	707022	61	50
BR63/2	707012	63	50



Use:

A spacer to prevent the fitting from being crushed during bolting. Used for channels and ceiling bases.

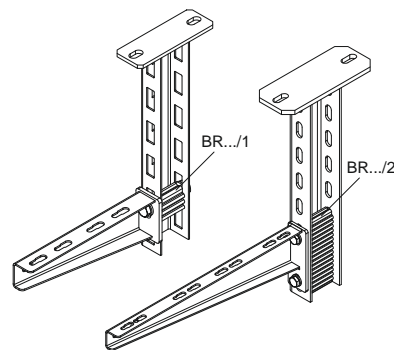
Spacer selection table

A - spacer

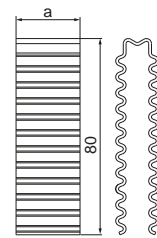
B - fits with ceiling bracket

C - fits with channel

A	B	C
BR33/1, BR33/2		CWT40H40, CMT40H60, CMT40H80
BR34/1, BR34/2		CMT41H41
BR35/1, BR35/2	WPCW/WPCO... WPCBM...	CWC40H40, CMM41H41, CMPM41H82, CMMC40H40, CMC40H60
BR36/1, BR36/2		CMC41H41, CWP40H40, CMPC41H82, CMP40H60
BR37/1, BR37/2		CMP41H41
BR45/1, BR45/2	WPCB...	CC50H35
BR48/1, BR48/2	WPCT...	CT55H50
BR50/1, BR50/2		CC55H50
BR51/1, BR51/2	WPSE...	CE60H40
BR53/1, BR53/2	WPST...	CT60H40
BR54/1, BR54/2	WPBM...	
BR61/1, BR61/2	WPCE/WPCEO...	CE70H50
BR63/1, BR63/2		CT70H50



Base spacer	BR.../80	mat.: S	option: FP, E, L
code	catalogue number	dimension a [mm]	quantity per package [pcs.]
Material thickness = 1.0 mm			
BR35/80	703580	35	50
BR36/80	703680	36	50
BR37/80	703780	37	50
BR45/80	704580	45	50
BR48/80	704880	48	50
BR50/80	705080	50	50
BR51/80	705180	51	50
BR53/80	705380	53	50
BR54/80	706124	54	50



Use:

A spacer to prevent the fitting from being crushed during bolting. Used for channels and ceiling bases.

Additional information:

- the spacer protects the ceiling bracket, base or C-profile from being crushed when mounting the wall bracket with a through bolt
- special profiling reinforces this element, prevents it from entering the hole of the ceiling bracket, base or C-profile when tightening the wall bracket and increases the contact area of the sheet metal with the inner surfaces of the support bracket, base or C-profile.

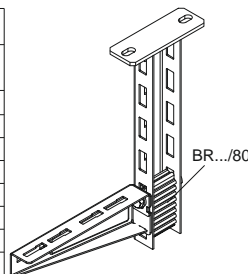
Spacer selection table

A - spacer

B - fits with ceiling bracket

C - fits with channel

A	B	C
BR35/80	WPCW/WPCO... WPCBM...	CWC40H40
BR36/80		CMC41H41,CWP40H40
BR37/80		CMP41H41
BR45/80	WPCB...	CC50H35
BR48/80	WPCT...	CT55H50
BR50/80		CC55H50
BR51/80	WPSE...	CE60H40
BR53/80	WPST...	CT60H40
BR54/80	WPBM...	





code	WSP...	dimension L [mm]	weight 1 pc. [kg]	quantity per package [pcs.]
WSP200	720420	200	0.32	20
WSP300	720430	300	0.42	20
WSP400	720440	400	0.49	20
WSP500	720450	500	0.58	20
WSP600	720460	600	0.68	20
WSP700	720470	700	0.77	8
WSP800	720480	800	0.86	8
WSP900	720490	900	0.95	8
WSP1000	720411	1000	1.04	8

Use:

Suspending cable routes.

Additional information:

- stable mounting screwed and snap-in wall brackets
- stepless adjustment of the height of the wall bracket mounting from the open part of the channel (Y) use PZC
- each bracket has NO32x18N protective cap included

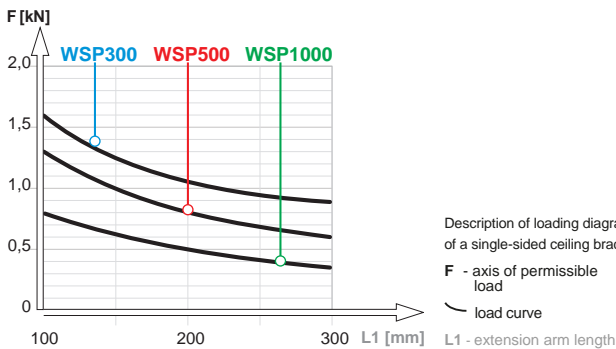
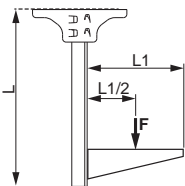
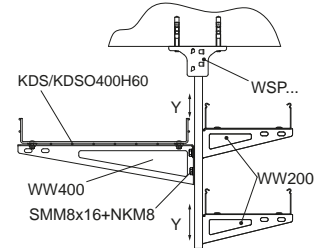
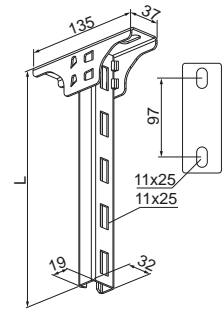


Table of maximum single-sided load on ceiling bracket with bracket depending on anchor type.
 With uniform loading of the ceiling bracket with bracket on both sides, the value can be doubled.
 The strength parameters shown below apply to fixings in concrete, at least C16/20
 Table description: **L1** - length of bracket [mm], **B** - anchor type, **F** - maximum load

B ▼ \ L1 ►	100	200	300
	F [kN]		
PSROM8x75 + PW8	1,60	1,05	0,90
PSROM10x80	1,60	1,05	0,90



code	NO32x18N	mat.: PE	quantity per package [pcs.]
NO32x18N	760310		100

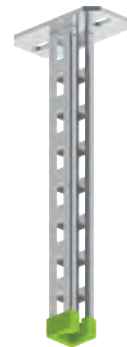
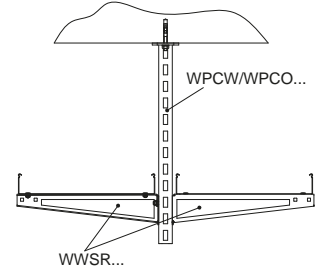
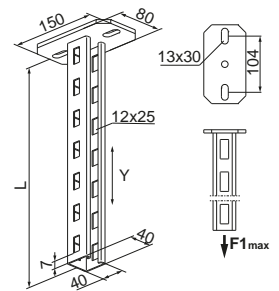


Use:

Protection of the fitter from injury from steel edges, improving visual aspect.



Ceiling bracket		WPCW/WPCO...	mat.: F	option: E, L		
code	catalogue number	dimension L [mm]	load max. $F_{1\max}$ [kN]	weight 1 pc. [kg]	quantity per package [pcs.]	substitute
WPCW/WPCO200	750620	215	17.00	0.90	20	PSCN + CMC41H41/02F
WPCW/WPCO300	750630	315	17.00	1.10	20	PSCN + CMC41H41/03F
WPCW/WPCO400	750640	415	17.00	1.30	10	PSCN + CMC41H41/04F
WPCW/WPCO500	750650	515	17.00	1.47	10	PSCN + CMC41H41/05F
WPCW/WPCO600	750660	615	17.00	1.67	10	PSCN + CMC41H41/06F
WPCW/WPCO700	750670	700	17.00	1.86	10	PSCN + CMC41H41/07F
WPCW/WPCO800	750680	800	17.00	2.10	10	PSCN + CMC41H41/08F
WPCW/WPCO900	750690	900	17.00	2.25	10	PSCN + CMC41H41/09F
WPCW/WPCO1000	750611	1000	17.00	2.45	10	PSCN + CMC41H41/1F
WPCW/WPCO1100	750511	1100	17.00	2.70	10	PSCN + CMC41H41/2F
WPCW/WPCO1200	750512	1200	17.00	2.95	10	PSCN + CMC41H41/2F
WPCW/WPCO1500	750515	1500	17.00	3.26	4	PSCN + CMC41H41/2F
WPCW/WPCO2000	750612	2000	17.00	4.90	4	PSCN + CMC41H41/2F

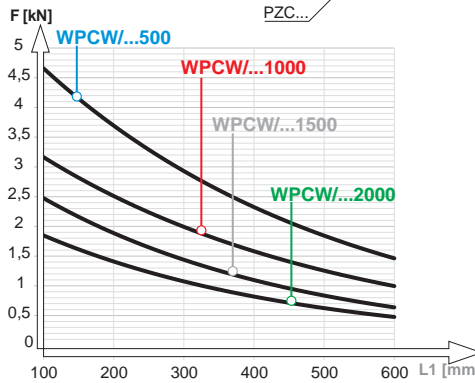
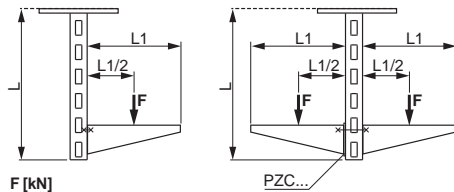


Use:

Suspending cable routes.

Additional information:

- increased strength parameters
- stepless adjustment of the height of the wall bracket mounting from the open part of the channel (Y) use PZC
- stable mounting screwed and snap-in wall brackets
- for mounting wall brackets to the open side of the support bracket it is recommended to use PZC40 or PZC100 channel plates
- BR35... spacer is recommended for mounting wall brackets to side holes
- each bracket has NO40x40N protective cap included
- the chart below is for a single-sided load on the bracket, for double-sided loading of the bracket, the values should be doubled (the load must be uniform)



Description of loading diagram of a single-sided ceiling bracket:

F - axis of permissible load

— load curve

L1 - extension arm length

Table of maximum single-sided load on ceiling bracket with bracket depending on anchor type. With uniform loading of the ceiling bracket with bracket on both sides, the value can be doubled.

The strength parameters shown below apply to fixings in concrete, at least C16/20
Table description: L1 - length of bracket [mm], B - anchor type, F - maximum load

B ▼	L1 ►					
	100	200	300	400	500	600
	F [kN]					
PSROM8x75 + PW8	1,50	1,20	1,00	0,90	0,80	0,70
PSROM10x80 + PW10	3,00	2,50	2,20	1,80	1,60	1,40
PSROM12x100	4,00	3,40	2,90	2,50	1,85	1,45



SUPPORTING AND ASSEMBLY ELEMENTS - CEILING BRACKETS



Protective cap

NO40x40N

mat.: PE

code

catalogue
number

quantity
per
package [pcs.]

NO40x40N

760510

100

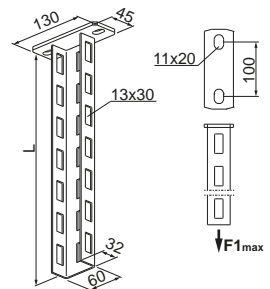


Use:

Protection of the fitter from injury from steel edges, improving visual aspect.



code	WPBM... catalogue number	dimension L [mm]	mat.: F load max. $F1_{max}$ [kN]	option: E, L weight 1 pc. [kg]	quantity per package [pcs.]
WPBM200	762320	200	10.00	0.55	10
WPBM300	762330	300	10.00	0.79	10
WPBM400	762340	400	10.00	0.96	10
WPBM500	762350	500	10.00	1.14	6
WPBM600	762360	600	10.00	1.20	6
WPBM700	762370	700	10.00	1.54	2
WPBM800	762380	800	10.00	1.67	2
WPBM900	762390	900	10.00	1.87	2
WPBM1000	762400	1000	10.00	2.06	2
WPBM2000	762402	2000	10.00	4.12	2



Use:

Suspending cable routes.

Additional information:

- increased strength parameters
- stable mounting screwed and snap-in wall brackets
- BR54... spacer is recommended for mounting screw-on wall brackets
- the chart below is for a single-sided load on the bracket, for double-sided loading of the bracket, the values should be doubled (the load must be uniform)

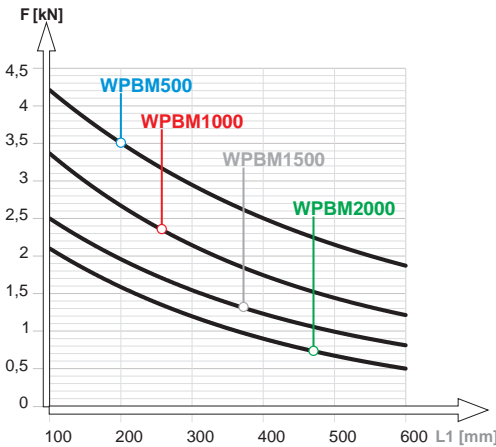
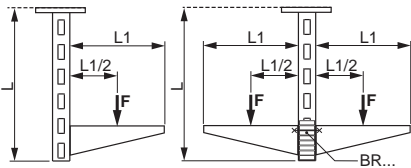
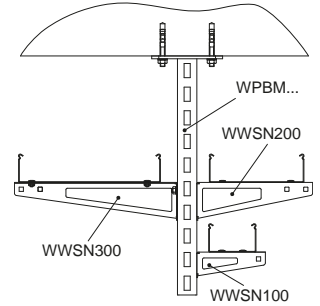


Table of maximum single-sided load on ceiling bracket with bracket depending on anchor type.

With uniform loading of the ceiling bracket with bracket on both sides, the value can be doubled.

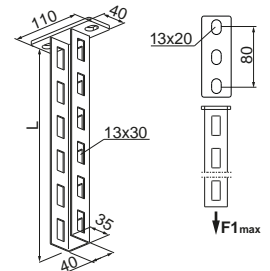
The strength parameters shown below apply to fixings in concrete, at least C16/20

Table description: L1 - length of bracket [mm], B - anchor type, F - maximum load

B ▼	L1 ►					
	100	200	300	400	500	600
F [kN]						
PSROM8x75 + PW8	1,50	1,20	1,00	0,90	0,80	0,70
PSROM10x80	3,00	2,50	2,20	1,80	1,60	1,40



code	WPCBM... catalogue number	dimension L [mm]	mat.: F load max. $F_{1\max}$ [kN]	option: E, L weight 1 pc. [kg]	quantity per package [pcs.]
WPCBM200	762002	200	10.00	0.55	10
WPCBM300	762003	300	10.00	0.79	10
WPCBM400	762004	400	10.00	0.96	10
WPCBM500	762005	500	10.00	1.14	6
WPCBM600	762006	600	10.00	1.20	6
WPCBM700	762007	700	10.00	1.54	2
WPCBM800	762008	800	10.00	1.67	2
WPCBM900	762009	900	10.00	1.87	2
WPCBM1000	762010	1000	10.00	2.06	2
WPCBM2000	762020	2000	10.00	4.12	2



Use:

Suspending cable routes.

Additional information:

- increased strength parameters
- WWBM... wall bracket is dedicated for the support bracket
- stable mounting screwed and snap-in wall brackets
- BR35... spacer is recommended for mounting wall brackets to side holes
- the chart below is for a single-sided load on the bracket, for double-sided loading of the bracket, the values should be doubled (the load must be uniform)

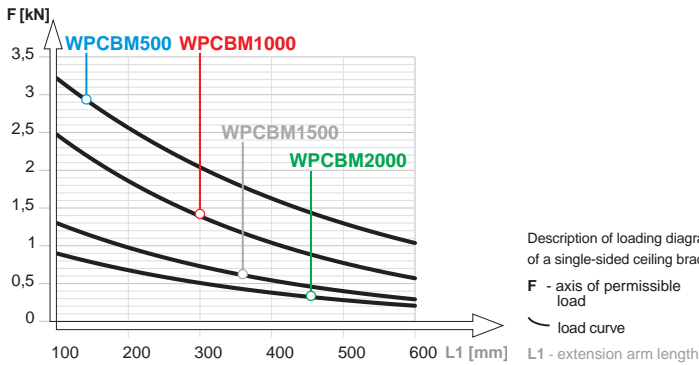
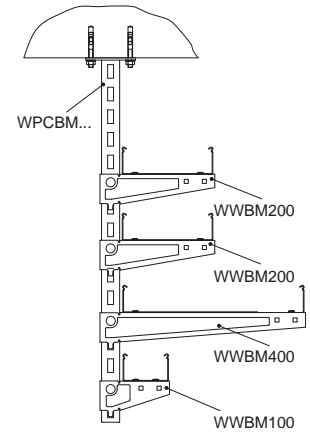
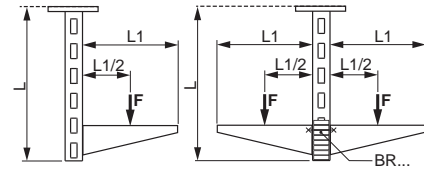
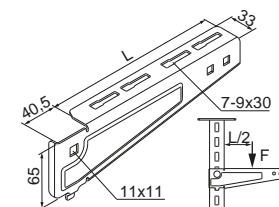


Table of maximum single-sided load on ceiling bracket with bracket depending on anchor type. With uniform loading of the ceiling bracket with bracket on both sides, the value can be doubled. The strength parameters shown below apply to fixings in concrete, at least C16/20
Table description: **L1** - length of bracket [mm], **B** - anchor type, **F** - maximum load

B ▼ \ L1 ▶	100	200	300	400	500	600
	F [kN]					
PSROM8x75 + PW8	1,50	1,20	1,00	0,90	0,80	0,70
PSROM10x80 + PW10	3,00	2,50	2,20	1,80	1,40	1,10
PSROM12x100	3,20	2,60	2,20	1,80	1,40	1,10



Bracket	WWBM...	mat.: S	option: F, E, L		
code	catalogue number	dimension L [mm]	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 2.0 mm					
WWBM100	711711	110	1.90	0.18	10
WWBM200	711721	210	1.80	0.38	10
WWBM300	711731	310	1.40	0.73	10
WWBM400	711741	410	1.20	1.18	10



Use:
Suspending cable routes. Wall bracket for mounting on the WPCB... and WPCW/WPCO... support brackets

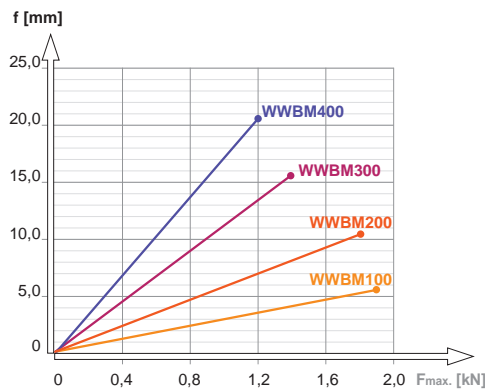
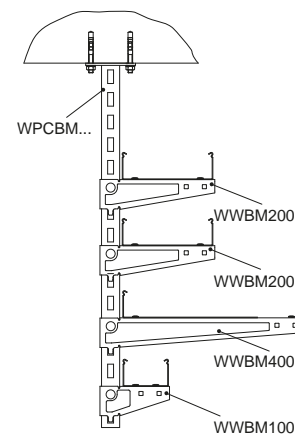
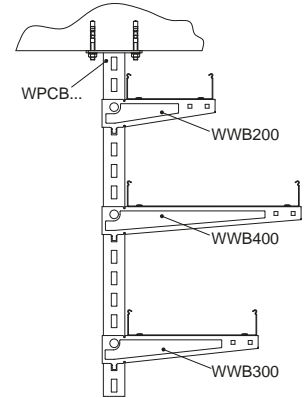
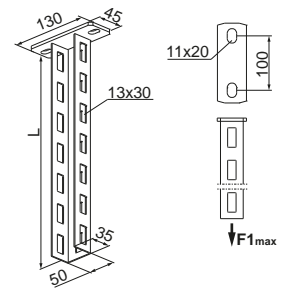


Chart description:
 f - axis of deflection
 - deflection line
 F_{max} - maximum load axis





Ceiling bracket	WPCB...	mat.: F	option: E, L		
code	catalogue number	dimension L [mm]	load max. F1 _{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
WPCB200	752002	200	18.00	0.72	10
WPCB300	752003	300	18.00	0.88	10
WPCB400	752004	400	18.00	1.04	10
WPCB500	752005	500	18.00	1.18	6
WPCB600	752006	600	18.00	1.34	6
WPCB700	752007	700	18.00	1.48	2
WPCB800	752008	800	18.00	1.68	2
WPCB900	752009	900	18.00	1.80	2
WPCB1000	752010	1000	18.00	1.96	2
WPCB2000	752020	2000	18.00	3.52	2
WPCB3000	752030	3000	18.00	5.08	2



Use:

Suspending cable routes.

Additional information:

- increased strength parameters
- WWB... wall bracket is dedicated for the support bracket
- stable mounting screwed and snap-in wall brackets
- BR45... spacer is recommended for mounting screw-on wall brackets
- each bracket has NO50x35 protective cap included
- the chart below is for a single-sided load on the bracket, for double-sided loading of the bracket, the values should be doubled (the load must be uniform)

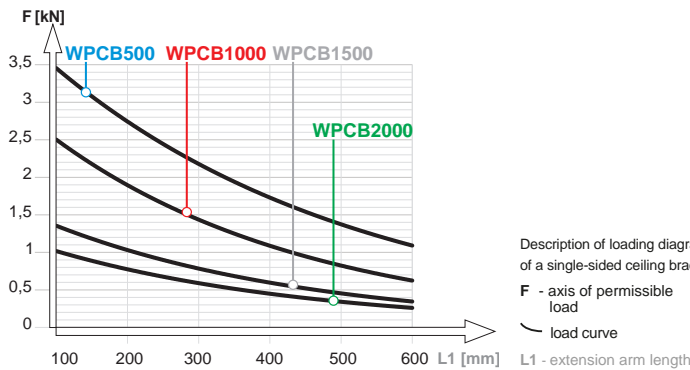
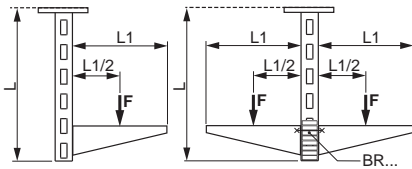


Table of maximum single-sided load on ceiling bracket with bracket depending on anchor type.
 With uniform loading of the ceiling bracket with bracket on both sides, the value can be doubled.
 The strength parameters shown below apply to fixings in concrete, at least C16/20
 Table description: **L1** - length of bracket [mm], **B** - anchor type, **F** - maximum load

B \ L1	L1 [mm]					
	100	200	300	400	500	600
F [kN]						
PSROM8x75 + PW8	1,50	1,20	1,00	0,90	0,80	0,70
PSROM10x80	3,00	2,50	2,20	1,80	1,40	1,10

Protective cap	NO50x35	mat.: PE	
code	catalogue number		quantity per package [pcs.]
NO50x35	670805		100

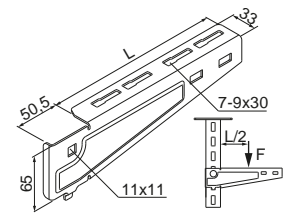
Use:

Protection of the fitter from injury from steel edges, improving visual aspect.





Bracket	WWB...	mat.: S	option: F, E, L		
code	catalogue number	dimension L [mm]	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 2.0 mm					
WWB100	711710	110	1.90	0.20	10
WWB200	711720	210	1.80	0.40	10
WWB300	711730	310	1.40	0.75	10
WWB400	711740	410	1.20	1.20	10



Use:
Suspending cable routes. Wall bracket for mounting on the WPCB... support bracket

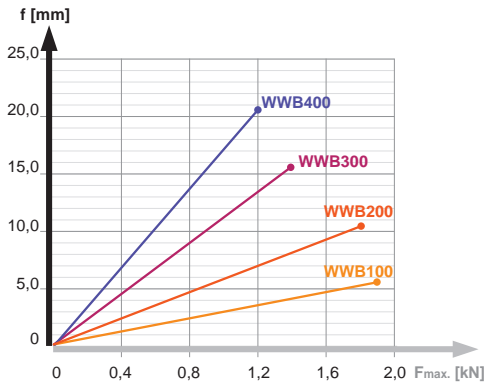
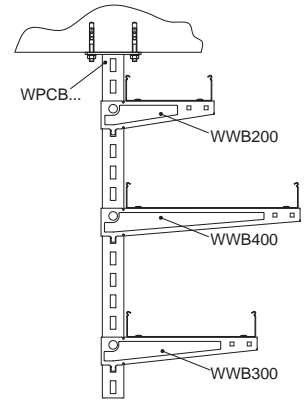
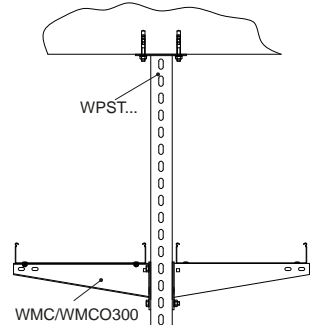
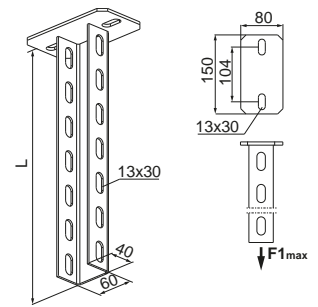


Chart description:
f - axis of deflection
 —●— deflection line
 F_{max} - maximum load axis

code	WPST... catalogue number	dimension L [mm]	mat.: F load max. $F1_{max}$ [kN]	option: E, L weight 1 pc. [kg]	quantity per package [pcs.]
WPST200	732102	200	17.00	0.92	10
WPST300	732103	300	17.00	1.22	10
WPST400	732104	400	17.00	1.51	4
WPST500	732105	500	17.00	1.80	4
WPST600	732106	600	17.00	2.09	4
WPST700	732107	700	17.00	2.38	4
WPST800	732108	800	17.00	2.68	2
WPST900	732109	900	17.00	2.97	2
WPST1000	732110	1000	17.00	3.26	2
WPST1100	732111	1100	17.00	3.55	2
WPST1200	732112	1200	17.00	3.84	2
WPST1500	732115	1500	17.00	4.72	2
WPST2000	732120	2000	17.00	6.18	2
WPST3000	732130	3000	17.00	9.10	2

N

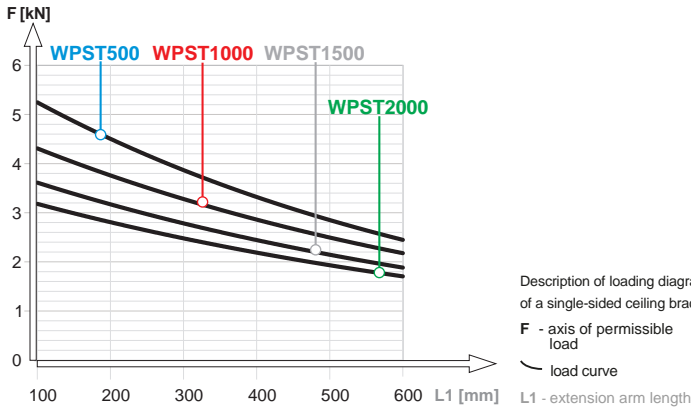
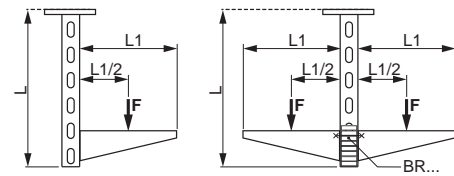


Use:

Suspending cable routes.

Additional information:

- increased strength parameters
- BR53... spacer is recommended for mounting screw-on wall brackets
- each bracket has NO60x40 protective cap included
- the chart below is for a single-sided load on the bracket, for double-sided loading of the bracket, the values should be doubled (the load must be uniform)



Description of loading diagram of a single-sided ceiling bracket:
F - axis of permissible load
load curve

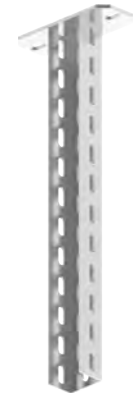
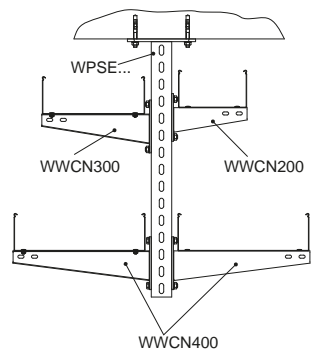
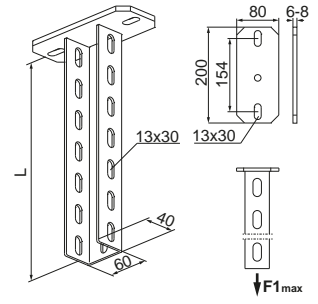
Table of maximum single-sided load on ceiling bracket with bracket depending on anchor type.
With uniform loading of the ceiling bracket with bracket on both sides, the value can be doubled.
The strength parameters shown below apply to fixings in concrete, at least C16/20
Table description: L1 - length of bracket [mm], B - anchor type, F - maximum load

B ▾ \ L1 ▶	100	200	300	400	500	600
	F [kN]					
PSROM8x75 + PW8	1,50	1,20	1,00	0,90	0,80	0,70
PSROM10x80 + PW10	3,00	2,50	2,20	1,80	1,60	1,40
PSROM12x100	4,00	3,40	2,90	2,50	2,20	2,00



code	WPSE...	dimension L [mm]	load max. $F_{1\max}$ [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
WPSE200	766620	200	19.00	2.32	10
WPSE300	766630	300	19.00	2.66	10
WPSE400	766640	400	19.00	3.04	4
WPSE500	766650	500	19.00	3.42	4
WPSE600	766660	600	19.00	3.80	4
WPSE700	766670	700	19.00	4.18	4
WPSE800	766680	800	19.00	4.56	2
WPSE900	766690	900	19.00	4.94	2
WPSE1000	766601	1000	19.00	5.32	2
WPSE1100	766611	1100	19.00	5.85	2
WPSE1200	766612	1200	19.00	6.38	2
WPSE1500	766615	1500	19.00	7.97	2
WPSE2000	766602	2000	19.00	9.12	2
WPSE3000	766603	3000	19.00	12.92	2

N

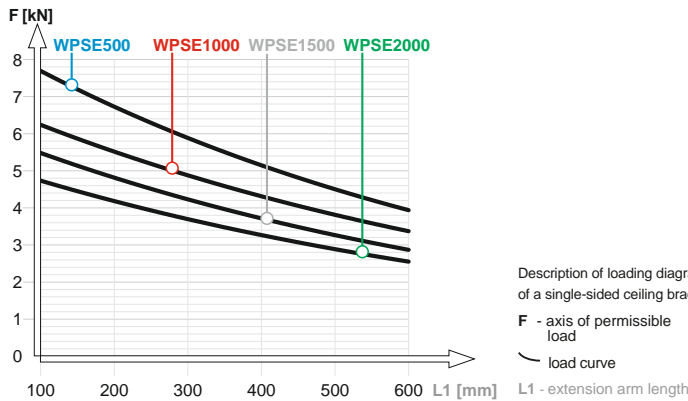
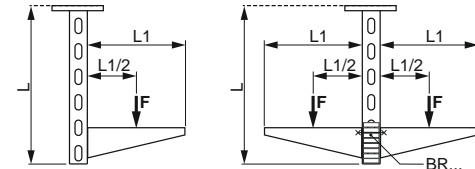


Use:

Suspending cable routes.

Additional information:

- increased strength parameters
- BR51... spacer is recommended for mounting screw-on wall brackets
- each bracket has NO60x40 protective cap included
- the chart below is for a single-sided load on the bracket, for double-sided loading of the bracket, the values should be doubled (the load must be uniform)



Description of loading diagram of a single-sided ceiling bracket:
F - axis of permissible load
 — load curve

Table of maximum single-sided load on ceiling bracket with bracket depending on anchor type. With uniform loading of the ceiling bracket with bracket on both sides, the value can be doubled. The strength parameters shown below apply to fixings in concrete, at least C16/20
 Table description: **L1** - length of bracket [mm], **B** - anchor type, **F** - maximum load

B ▾	L1 ▶	F [kN]					
		100	200	300	400	500	600
PSROM8x75 + PW8		1,50	1,20	1,00	0,90	0,80	0,70
PSROM10x80 + PW10		3,00	2,50	2,20	1,80	1,60	1,40
PSROM12x100		4,00	3,40	2,90	2,50	2,20	2,00

code	NO60x40	mat.: PE	quantity per package [pcs.]
NO60x40	670604		100

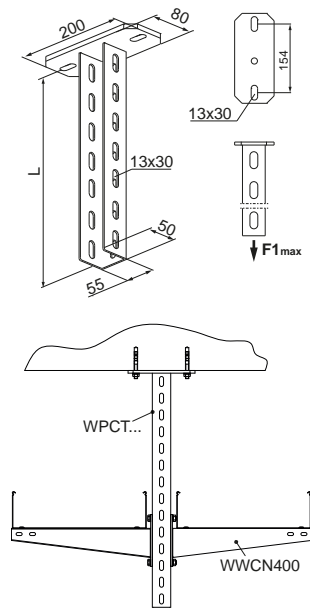
Use:

Protection of the fitter from injury from steel edges, improving visual aspect.





Ceiling bracket	WPCT...N	mat.: F	option: E, L		
code	catalogue number	dimension L [mm]	load max. $F1_{max}$ [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
WPCT200N	731220	200	22.00	1.26	10
WPCT300N	731230	300	22.00	1.54	10
WPCT400N	731240	400	22.00	1.82	10
WPCT500N	731250	500	22.00	2.10	10
WPCT600N	731260	600	22.00	2.37	4
WPCT700N	731270	700	22.00	2.65	4
WPCT800N	731280	800	22.00	2.93	4
WPCT900N	731290	900	22.00	3.21	4
WPCT1000N	731211	1000	22.00	3.49	4
WPCT2000N	731212	2000	22.00	6.28	4
WPCT3000N	731213	3000	22.00	9.60	4



Use:

Suspending cable routes.

Additional information:

- increased strength parameters
- BR48... spacer is recommended for mounting screw-on wall brackets
- each bracket has NO55x50N protective cap included
- the chart below is for a single-sided load on the bracket, for double-sided loading of the bracket, the values should be doubled (the load must be uniform)

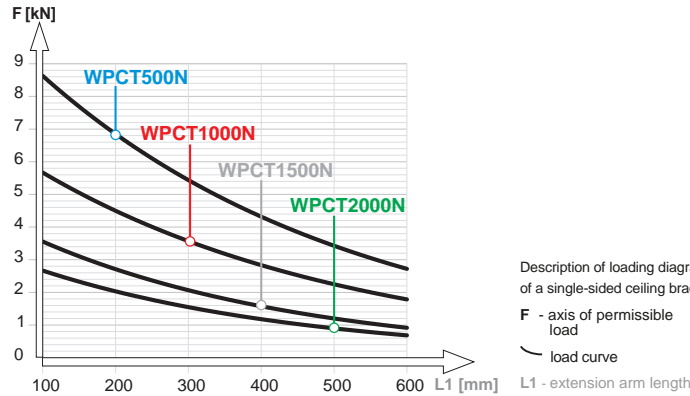
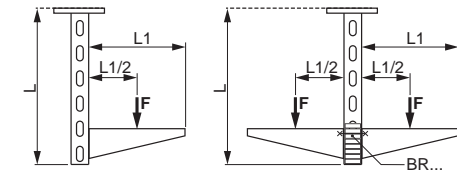


Table of maximum single-sided load on ceiling bracket with bracket depending on anchor type. With uniform loading of the ceiling bracket with bracket on both sides, the value can be doubled. The strength parameters shown below apply to fixings in concrete, at least C16/20
 Table description: L1 - length of bracket [mm], B - anchor type, F - maximum load

B ▾	L1 ▶	F [kN]					
		100	200	300	400	500	600
PSROM8x75 + PW8		1,50	1,20	1,00	0,90	0,80	0,70
PSROM10x80 + PW10		3,00	2,50	2,20	1,80	1,60	1,40
PSROM12x100		4,00	3,40	2,90	2,50	2,20	2,00

Protective cap	NO55x50N	mat.: PE		
code	catalogue number		quantity per package [pcs.]	
NO55x50N	760610		100	

Use:

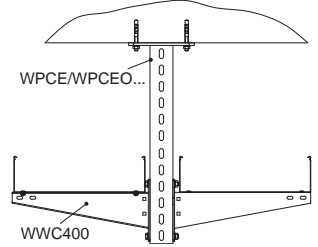
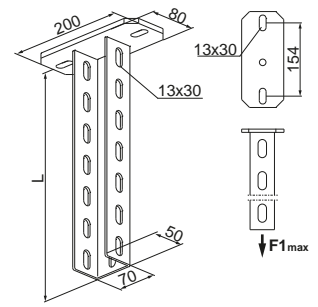
Protection of the fitter from injury from steel edges, improving visual aspect.



SUPPORTING AND ASSEMBLY ELEMENTS - CEILING BRACKETS



Ceiling bracket		WPCE/WPCEO...	mat.: F	option: E, L	
code	catalogue number	dimension L [mm]	load max. $F_{1\max}$ [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
WPCE/WPCEO200	721520	200	28.00	2.32	10
WPCE/WPCEO300	721530	300	28.00	2.66	10
WPCE/WPCEO400	721540	400	28.00	3.04	4
WPCE/WPCEO500	721550	500	28.00	3.42	4
WPCE/WPCEO600	721560	600	28.00	3.80	4
WPCE/WPCEO700	721570	700	28.00	4.18	4
WPCE/WPCEO800	721580	800	28.00	4.56	2
WPCE/WPCEO900	721590	900	28.00	4.94	2
WPCE/WPCEO1000	721511	1000	28.00	5.32	2
WPCE/WPCEO1100	721411	1100	28.00	5.85	2
WPCE/WPCEO1200	721412	1200	28.00	6.38	2
WPCE/WPCEO1500	721415	1500	28.00	7.97	2
WPCE/WPCEO2000	721512	2000	28.00	9.12	2
WPCE/WPCEO3000	721513	3000	28.00	12.92	2



Use:

Suspending cable routes.

Additional information:

- increased strength parameters
- mounting the bracket to the steel structure with bolts min. M10
- BR61... spacer is recommended for mounting screw-on wall brackets
- each bracket has NO70x50N protective cap included
- the chart below is for a single-sided load on the bracket, for double-sided loading of the bracket, the values should be doubled (the load must be uniform)

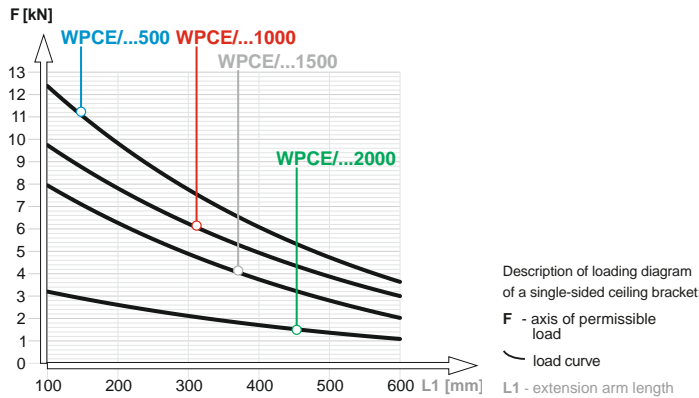
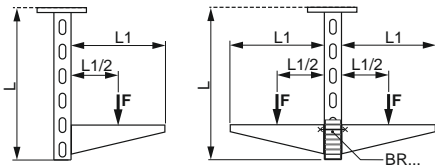


Table of maximum single-sided load on ceiling bracket with bracket depending on anchor type.
 With uniform loading of the ceiling bracket with bracket on both sides, the value can be doubled.
 The strength parameters shown below apply to fixings in concrete, at least C16/20
 Table description: L1 - length of bracket [mm], B - anchor type, F - maximum load

B ▾	L1 ▶	100	200	300	400	500	600
		F [kN]					
PSROM8x75 + PW8		1,50	1,20	1,00	0,90	0,80	0,70
PSROM10x80 + PW10		3,00	2,50	2,20	1,80	1,60	1,40
PSROM12x100		4,00	3,40	2,90	2,50	2,20	2,00

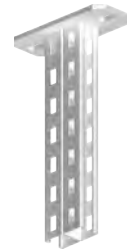
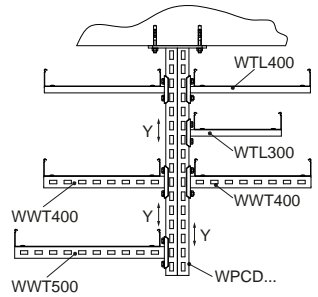
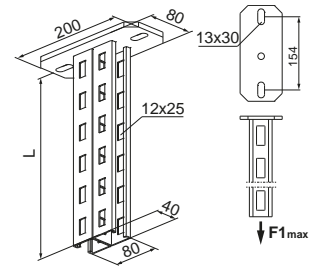
Protective cap		NO70x50N	mat.: PE
code	catalogue number	quantity per package [pcs.]	
NO70x50N	760710	100	



Use:

Protection of the fitter from injury from steel edges, improving visual aspect.

Ceiling bracket	WPCD...N	mat.: F	option: E, L		
code	catalogue number	dimension L [mm]	load max. $F_{1\max}$ [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
WPCD200N	730820	200	17.00	1.48	10
WPCD300N	730830	300	17.00	1.68	10
WPCD400N	730840	400	17.00	2.26	4
WPCD500N	730850	500	17.00	2.65	4
WPCD600N	730860	600	17.00	3.04	4
WPCD700N	730870	700	17.00	3.50	2
WPCD800N	730880	800	17.00	3.82	2
WPCD900N	730890	900	17.00	4.21	2
WPCD1000N	750811	1000	17.00	4.60	2
WPCD2000N	750812	2000	17.00	8.50	2
WPCD3000N	750813	3000	17.00	12.40	2



Use:

Suspending cable routes.

Additional information:

- increased strength parameters
- stepless adjustment of the height of the wall bracket mounting from the open part of the channel (Y) use PZC
- for mounting wall brackets to the open side of the support bracket it is recommended to use PZC40 or PZC100 channel plates
- each bracket has NOW40x40 protective caps included
- the chart below is for a single-sided load on the bracket, for double-sided loading of the bracket, the values should be doubled (the load must be uniform)

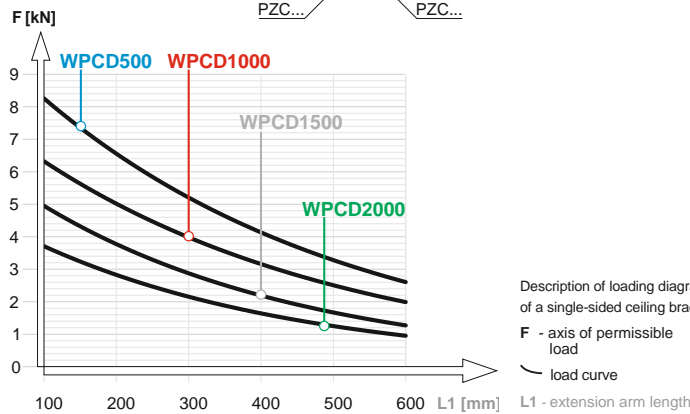
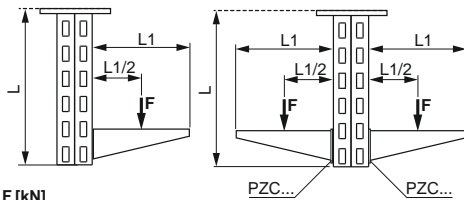


Table of maximum single-sided load on ceiling bracket with bracket depending on anchor type. With uniform loading of the ceiling bracket with bracket on both sides, the value can be doubled. The strength parameters shown below apply to fixings in concrete, at least C16/20
 Table description: **L1** - length of bracket [mm], **B** - anchor type, **F** - maximum load

B ▼ \ L1 ▶	100	200	300	400	500	600
	F [kN]					
PSROM8x75 + PW8	1,50	1,20	1,00	0,90	0,80	0,70
PSROM10x80 + PW10	3,00	2,50	2,20	1,80	1,60	1,40
PSROM12x100	4,00	3,40	2,90	2,50	2,20	2,00



Bracket code	WPL...(S) catalogue number	dimension L [mm]	load max. F_{max} [kN]	load max. $F1_{max}$ [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
WPL100	710710	115	1.90	8.00	0.20	50
WPL150	710715	165	1.80	8.00	0.27	50
WPL200	710720	215	1.70	8.00	0.34	50
WPL300	710730	315	1.30	8.00	0.49	30
WPL400	710740	415	1.00	8.00	0.61	30
WPL500	710750	515	0.80	8.00	0.75	30

Use:

Mounting cable trays, cable ladders, pipes and other elements, especially with limited space for cable routes (e.g. above suspended ceilings).

Additional information:

- can be used in the form of a wall or ceiling bracket (mounting to the ceiling)
- on request possible to make wall brackets of non-standard lengths

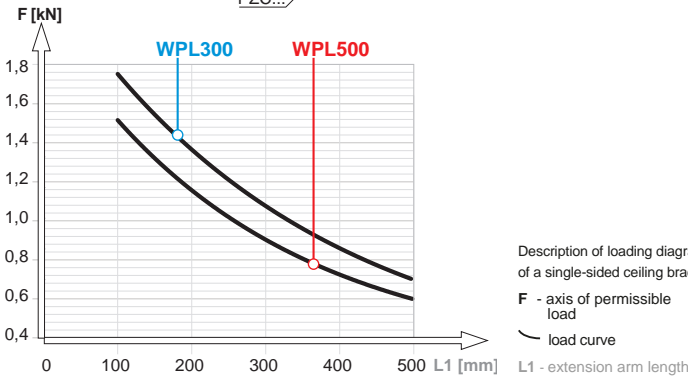
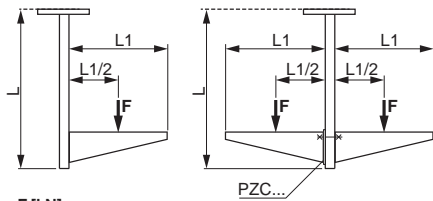
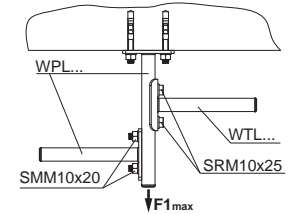
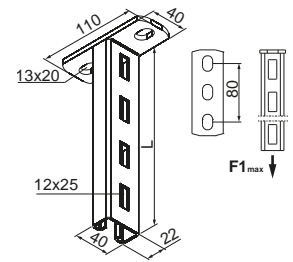


Table of maximum single-sided load on ceiling bracket with bracket depending on anchor type. With uniform loading of the ceiling bracket with bracket on both sides, the value can be doubled. The strength parameters shown below apply to fixings in concrete, at least C16/20
 Table description: **L1** - length of bracket [mm], **B** - anchor type, **F** - maximum load

B ▾ \ L1 ▶	100	200	300	400	500
	F [kN]				
PSROM8x75 + PW8	1,50	1,20	1,00	0,80	0,60
PSROM10x80 + PW10	1,70	1,30	1,00	0,80	0,60
PSROM12x100	1,70	1,30	1,00	0,80	0,60



Protective cap code	NOW40x22 catalogue number	mat.: PE	quantity per package [pcs.]
NOW40x22	760100		100



Use:

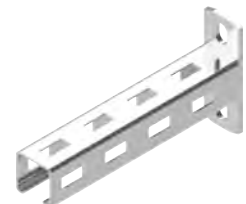
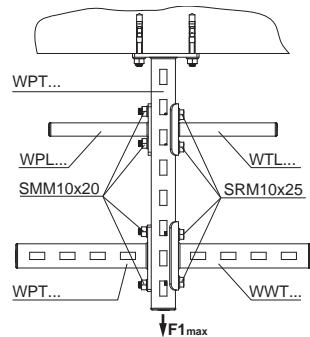
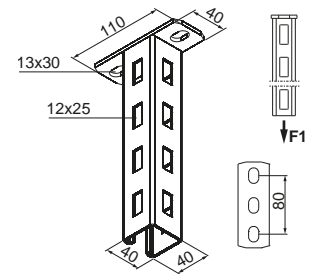
Protection of the fitter from injury from steel edges, improving visual aspect.

Additional information:

- covers the edges of the wall brackets, protecting fitters from injury
- thanks to a new secure lock, the caps always stay in place
- provide a visually pleasing end to a channel or wall bracket



Bracket	WPT...(S)	mat.: F	option: E, L			
code	catalogue number	dimension L [mm]	load max. F_{max} [kN]	load max. $F1_{max}$ [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
WPT/WPTO100	710910	115	3.00	10.00	0.48	30
WPT150	710915	165	2.50	10.00	0.57	30
WPT200	710920	215	2.00	10.00	0.65	30
WPT300	710930	315	1.70	10.00	0.92	30
WPT400	710940	415	1.60	10.00	1.12	20
WPT500	710950	515	1.40	10.00	1.33	20
WPT600	710960	615	1.30	10.00	1.39	20
WPT700	710970	700	1.20	10.00	1.78	8
WPT800	710980	800	1.10	10.00	1.93	8
WPT900	710990	900	1.00	10.00	2.16	8
WPT1000	710911	1000	0.90	10.00	2.38	8



Use:
Mounting cable trays, cable ladders, pipes and other elements, especially with limited space for cable routes (e.g. above suspended ceilings).

- Additional information:**
- can be used in the form of a wall or ceiling bracket (mounting to the ceiling)
 - on request possible to make wall brackets of non-standard lengths

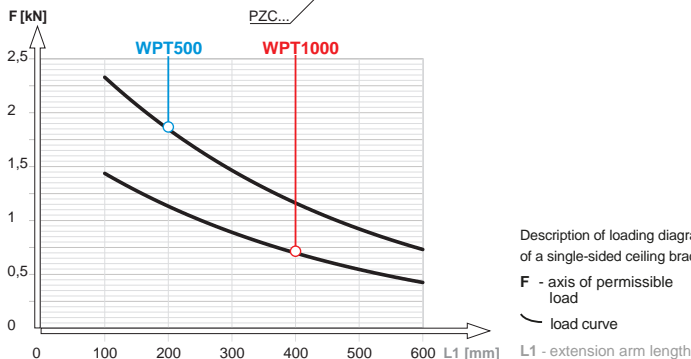
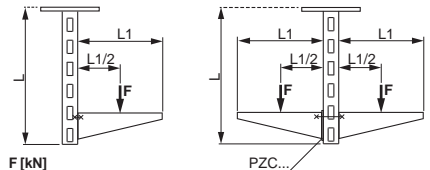


Table of maximum single-sided load on ceiling bracket with bracket depending on anchor type.
 With uniform loading of the ceiling bracket with bracket on both sides, the value can be doubled.
 The strength parameters shown below apply to fixings in concrete, at least C16/20
 Table description: **L1** - length of bracket [mm], **B** - anchor type, **F** - maximum load

B ▾	L1 ▶					
	100	200	300	400	500	600
	F [kN]					
PSROM8x75 + PW8	1,50	1,20	1,00	0,90	0,80	0,70
PSROM10x80 + PW10	3,00	2,50	2,20	1,80	1,60	1,40
PSROM12x100	4,00	3,40	2,90	2,50	2,20	2,00



Protective cap	NOW40x40	mat.: PE	
code	catalogue number		quantity per package [pcs.]
NOW40x40	760400		100



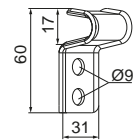
Use:
Protection of the fitter from injury from steel edges, improving visual aspect.

- Additional information:**
- covers the edges of the wall brackets, protecting fitters from injury
 - thanks to a new secure lock, the caps always stay in place
 - provide a visually pleasing end to a channel or wall bracket

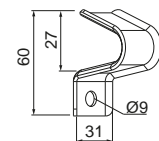
SUPPORTING AND ASSEMBLY ELEMENTS - CLAMP AND BUCKLES



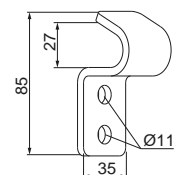
Beam Clamp	ZD	mat.: S	option: FP, E, L
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]
ZD	750906	0.06	100



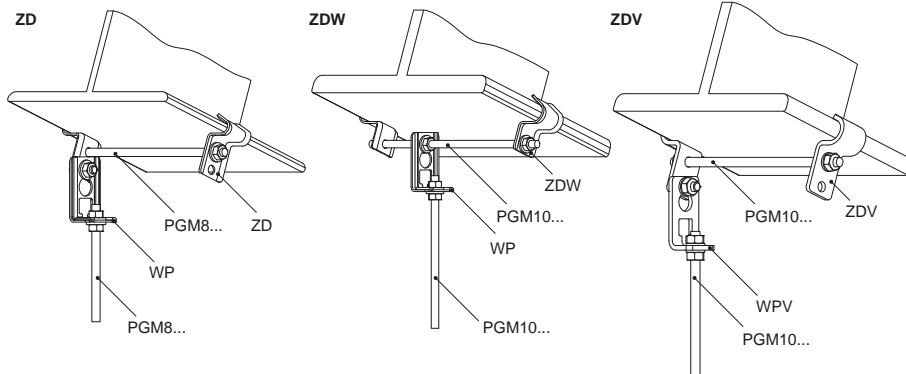
Beam Clamp	ZDW	mat.: S	option: FP, E, L
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]
ZDW	751006	0.08	100



Beam Clamp	ZDV	mat.: FP	option: E, L	
code	catalogue number	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 5.0 mm				
ZDV	750907	3.00	0.18	50

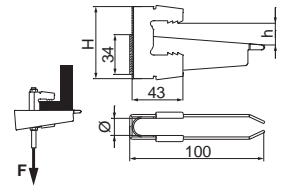


Use:
Suspending cable routes.



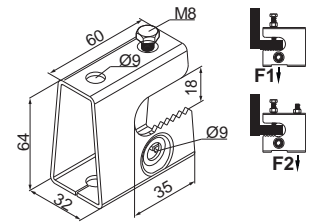


Clamp	ZTK...	mat.: S				
code	catalogue number	dimension Ø/H [mm]	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]	N
ZTK6/8	751109	6-8/8-20	2.00	0.15	50	
ZTK10	751209	10/8-22	3.50	0.16	50	



Use:
Mounting rods, clamps, etc. to: I-beams, angle profiles, etc.

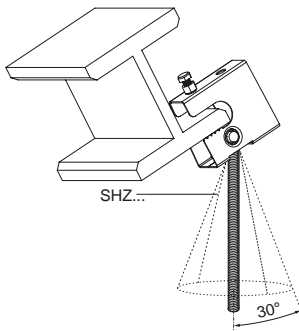
Clamp	ZDT	mat.: S	option: FP, E, L			
code	catalogue number	load max. $F1_{max}$ [kN]	load max. $F2_{max}$ [kN]	weight 1 pc. [kg]	quantity per package [pcs.]	
ZDT	751106	1.50	0.90	0.16	50	



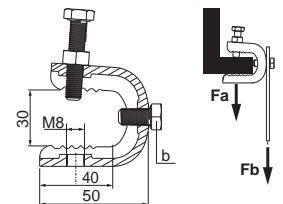
Use:
Suspending cable routes.

Additional information:

- suspending cable route components to inclined structures using hook bolts, for example: SHZ...



Clamp	ZC	mat.: FP	option: L			
code	catalogue number	load max. $F_{a,max}$ [kN]	load max. $F_{b,max}$ [kN]	weight 1 pc. [kg]	quantity per package [pcs.]	E-90
ZC	752300	2.00	0.60	0.23	50	

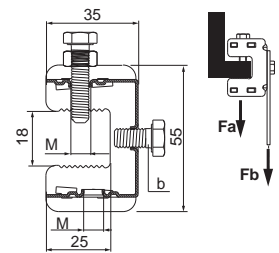


Use:
Mounting rods, clamps, etc. to: I-beams, angle profiles, etc.

Additional information:

- bolt "b" is added separately, i.e., additional bolts in an independent package are added to the bulk package of clamps with bolted-in bolts with lock nuts

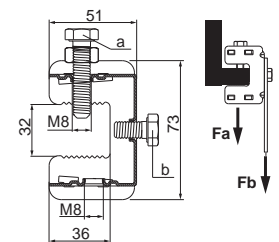
Clamp		ZCM1...	mat.: FP	option: E, L		
code	catalogue number	dimension M	load max. $F_{a \max}$ [kN]	load max. $F_{b \max}$ [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
ZCM1/M6	752302	M6	0.50	0.20	0.07	100
ZCM1/M8	752304	M8	0.50	0.20	0.07	100



Additional information:

- bolt "b" is added separately, i.e., additional bolts in an independent package are added to the bulk package of clamps with bolted-in bolts with lock nuts

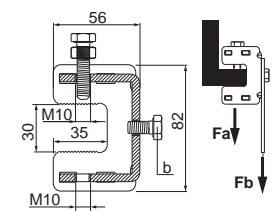
Clamp		ZCS	mat.: FP	option: E, L		
code	catalogue number	load max. $F_{a \max}$ [kN]	load max. $F_{b \max}$ [kN]	weight 1 pc. [kg]	quantity per package [pcs.]	
ZCS	752502	2.00	0.60	0.20	50	



Additional information:

- ZCS clamp has 3 M8 threaded holes for mounting with a bolt
- bolt "b" is added separately, i.e., additional bolts in an independent package are added to the bulk package of clamps with bolted-in bolts with lock nuts

Clamp		ZCV	mat.: F	option: E, L		
code	catalogue number	load max. $F_{a \max}$ [kN]	load max. $F_{b \max}$ [kN]	weight 1 pc. [kg]	quantity per package [pcs.]	
Material thickness = 5.0 mm						
ZCV	752301	3.50	2.00	0.40	30	

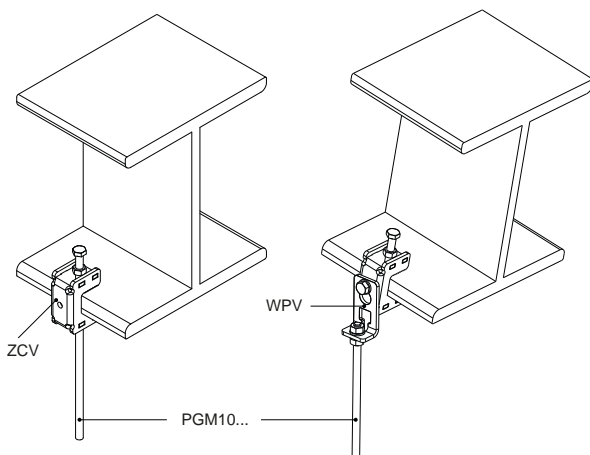


Use:

Mounting rods, clamps, etc. to: I-beams, angle profiles, etc.

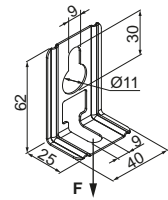
Additional information:

- ZCV clamp has 3 M10 threaded holes for mounting with a bolt
- bolt "b" is added separately, i.e., additional bolts in an independent package are added to the bulk package of clamps with bolted-in bolts with lock nuts

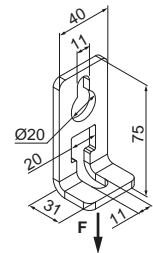




Rod hanger		WP	mat.: S	option: FP, E, L
code	catalogue number	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 2.0 mm				
WP	731300	0.60	0.04	100

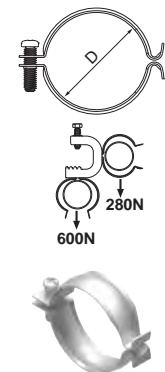


Rod hanger		WPV	mat.: FP	option: E, L
code	catalogue number	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
Material thickness = 5.0 mm				
WPV	731301	3.50	0.11	50



Use:
Suspending cable routes to steel structures using ZC... clamps.

Cable Clip		OZC...	mat.: F	option: L
code	catalogue number	dimension D_{min}/D_{max} [mm]	quantity per package [pcs.]	
OZC20	751120	16/20	50	
OZC25	751125	20.4/25	50	
OZC31	751131	26.9/31.8	50	
OZC38	751138	33.7/38	50	
OZC44	751144	40/44.5	50	
OZC51	751151	47/51	25	
OZC63	751163	59.2/63.5	25	



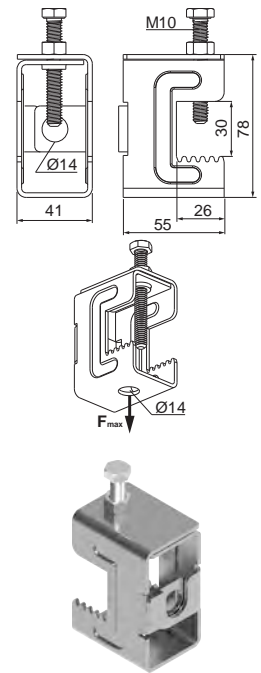
Use:
Fixing cables to ZCS1 and ZCS2 clamps.

Additional information:

- quick and easy mounting with a clamp
- a plastic washer on the bolt prevents it from falling out during mounting
- wide range of cable diameters possible for each clamp size



Clamp	ZCS1	mat.: FP	option: L		
code	catalogue number	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]	N
ZCS1	752553	1.20	0.29	25	

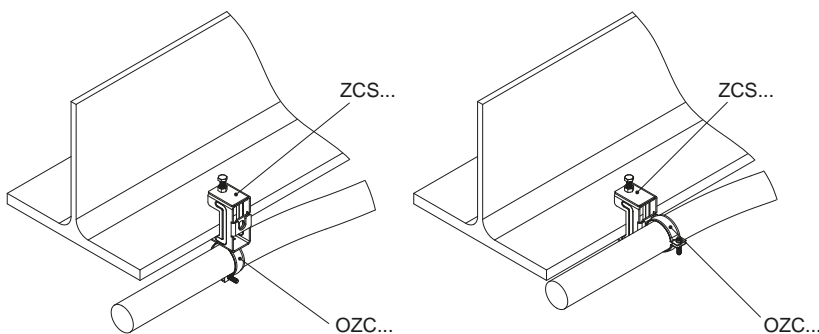
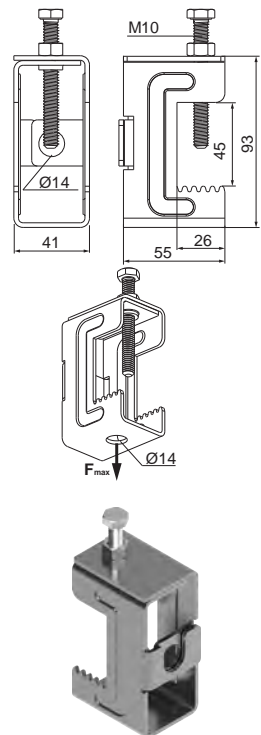


Clamp	ZCS2	mat.: FP	option: L		
code	catalogue number	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]	N
ZCS2	752554	1.30	0.31	25	

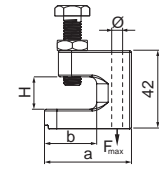
Use:
Mounting rods, clamps, etc. to: I-beams, angle profiles, etc.

Additional information:

- specially serrated surface provides additional protection against slipping of the attached clamp,
- Ø14 mm hole is used to install threaded rod, hooks or OZC... clamps
- provides a good basis for building solid mountings on steel structures without drilling and welding



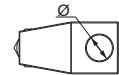
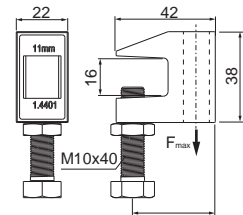
Clamp		ZK...	mat.: OSG		option: F
code	catalogue number	dimension a/b/Ø/H [mm]	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
ZK8/19	752208	38/21/9/19	1.20	0.13	50
ZK8/23	752209	50/29/9/23	1.20	0.14	50
ZK10	752210	45/23/11/22	1.20	0.14	50
ZK12	752212	43/24/13/26	2.50	0.18	50



Additional information:

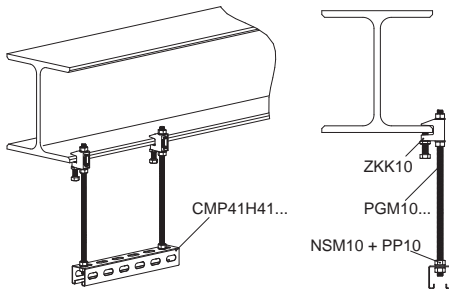
- pre-tighten the clamp screw to the steel structure by hand
- tighten the screw by 1/2 turn (180°) with a spanner
- lock the screw with a lock nut
- complete the assembly of the clamp by tightening the screw by 1/8 turn (45°) with a spanner

Clamp		ZKK...	mat.: E		
code	catalogue number	dimension Ø [mm]	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
ZKK8	752213	9	1.20	0.18	10
ZKK10	752214	11	1.20	0.17	10
ZKK12	752215	13	1.20	0.16	10

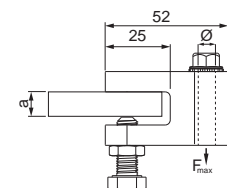


Use:

Mounting rods to I-beams, angle profiles, etc.



Quick Lock Clip		ZSM...	mat.: OSG		
code	catalogue number	dimension Ø/a _{min} /a _{max} [mm]	load max. F_{max} [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
ZSM8	752307	8/3/9	1.10	0.13	10
ZSM10	752308	10/3/9	1.10	0.13	10



Use:

Mounting rods to I-beams, angle profiles, etc.

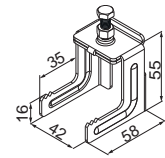
Additional information:

- push-to-install design means that during mounting, the threaded rod only needs pushing into the mounting hole for immediate mounting in the correct position
- the lock nut can be tightened with your fingers and lock the rod
- can be used in conjunction with slightly damaged threads and when there are small burrs on the threaded rod

SUPPORTING AND ASSEMBLY ELEMENTS - CLAMP AND BUCKLES

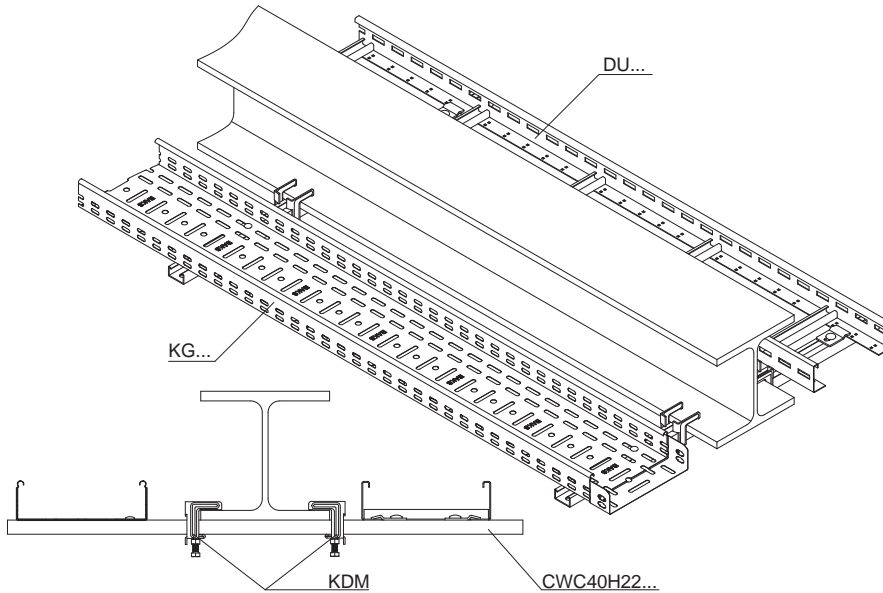


Beam Clamp	KDM	mat.: S	option: FP, E, L
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]
KDM	751205	0.13	100

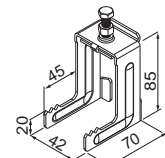


Additional information:

- mounting to the I-beam with a bracket set consisting of 2 KDM brackets and CWC40H22 channel (section X)



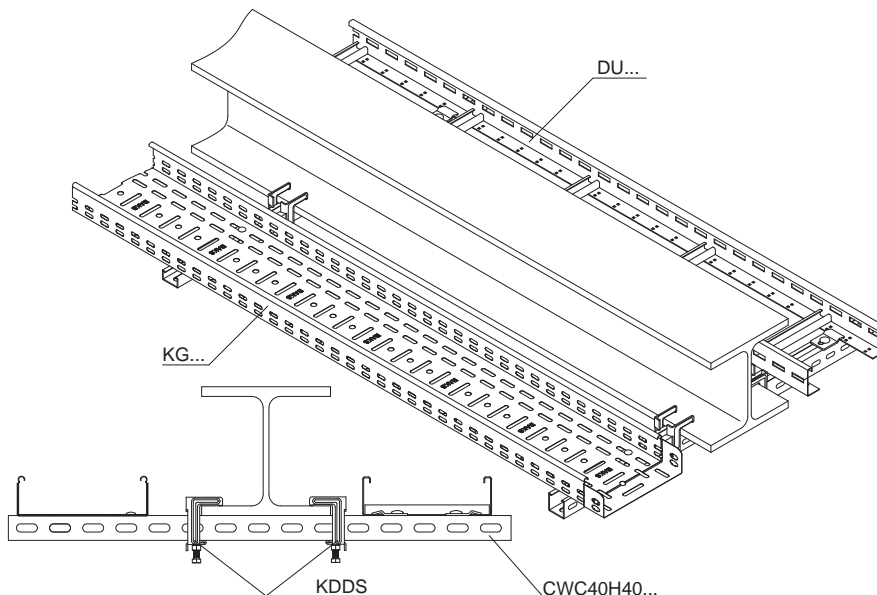
Beam Clamp	KDDS	mat.: S	option: FP, E, L
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]
KDDS	751407	0.20	50



Use:
Suspending cable routes.

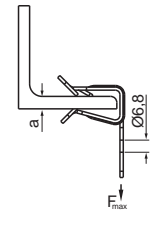
Additional information:

- mounting to the I-beam with a bracket set consisting of 2 KDDS brackets and CWC40H40 channel (section X)

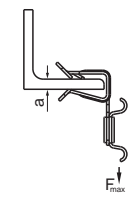




Clamp		ZSU1...	mat.: SCS		
code	catalogue number	dimension a [mm]	load max. F_{max} [kN]	quantity per package [pcs.]	
Material thickness = 1.0 mm					
ZSU1 13/2	797301	2-3	0.70	100	
ZSU1 13/3	797401	3-8	0.90	100	
ZSU1 16/2	797501	8-14	0.90	100	
ZSU1 16/3	797601	14-20	0.90	100	

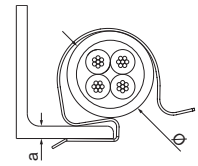


Clamp		ZSU2...	mat.: SCS		
code	catalogue number	dimension a [mm]	load max. F_{max} [kN]	quantity per package [pcs.]	
Material thickness = 1.0 mm					
ZSU2 13/2	797701	2-3	0.15	100	
ZSU2 13/3	797801	3-8	0.15	100	
ZSU2 16/2	797901	8-14	0.15	100	
ZSU2 16/3	798001	14-20	0.15	100	



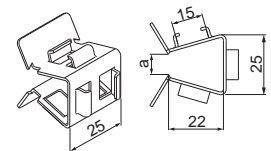
Use:
Suspending light structures to open profiles.

Clamp code	ZSK1... catalogue number	mat.: SCS dimension Ø/a [mm]	quantity per package [pcs.]
Material thickness = 1.0 mm			
ZSK1Ø6/2	792901	6-7/2-4	100
ZSK1Ø7/2	793001	7-8/2-4	100
ZSK1Ø8/2	793101	8-9/2-4	100
ZSK1Ø9/2	793201	9-10/2-4	100
ZSK1Ø10/2	793301	10-11/2-4	100
ZSK1Ø12/2	793401	12-14/2-4	100
ZSK1Ø15/2	793501	15-18/2-4	100
ZSK1Ø19/2	793601	19-24/2-4	100
ZSK1Ø25/2	793701	25-32/2-4	100
ZSK1Ø6/4	793801	6-7/4-7	100
ZSK1Ø7/4	793901	7-8/4-7	100
ZSK1Ø8/4	794001	8-9/4-7	100
ZSK1Ø9/4	794101	9-10/4-7	100
ZSK1Ø10/4	794201	10-11/4-7	100
ZSK1Ø12/4	794301	12-14/4-7	100
ZSK1Ø15/4	794401	15-18/4-7	100
ZSK1Ø19/4	794501	19-24/4-7	100
ZSK1Ø25/4	794601	25-32/4-7	100
ZSK1Ø6/8	794701	6-7/8-12	100
ZSK1Ø7/8	794801	7-8/8-12	100
ZSK1Ø8/8	794901	8-9/8-12	100
ZSK1Ø9/8	795001	9-10/8-12	100
ZSK1Ø10/8	795101	10-11/8-12	100
ZSK1Ø12/8	795201	12-14/8-12	100
ZSK1Ø15/8	795301	15-18/8-12	100
ZSK1Ø19/8	795401	19-24/8-12	100
ZSK1Ø25/8	795501	25-32/8-12	100

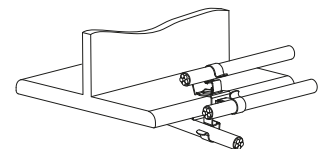


Use:
Suspending cables and pipes to open profiles.

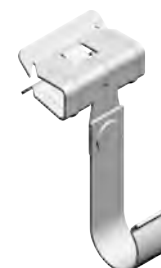
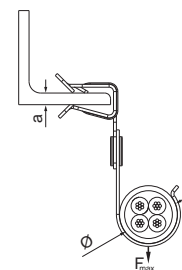
Adapter for ZSK1 code	AZSK1 catalogue number	mat.: SCS dimension a [mm]	quantity per package [pcs.]
AZSK1	790302	12-20	50



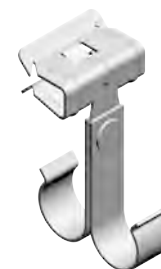
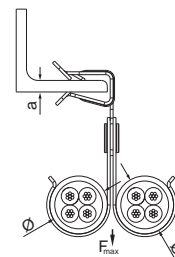
Use:
Suspending light structures to open profiles.
The adapter can be used for the ZSK1 clamp and profiles with a wall thickness of 12-20 mm.



Clamp	ZSK2...	mat.: SCS		
code	catalogue number	dimension \varnothing/a [mm]	quantity per package [pcs.]	
Material thickness = 1.0 mm				
ZSK2 13/2	796501	11-13/2-3	100	
ZSK2 13/3	796601	11-13/3-8	100	
ZSK2 16/2	796701	12.5-16/2-3	100	
ZSK2 16/3	796801	12.5-16/3-8	100	

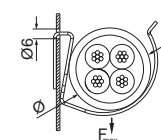


Clamp	ZSK3...	mat.: SCS		
code	catalogue number	dimension \varnothing/a [mm]	quantity per package [pcs.]	
Material thickness = 1.0 mm				
ZSK3 13/2	796901	11-13/2-3	100	
ZSK3 13/3	797001	11-13/3-8	100	
ZSK3 16/2	797101	12.5-16/2-3	100	
ZSK3 16/3	797201	12.5-16/3-8	100	



Use:
Suspending cables and pipes to open profiles.

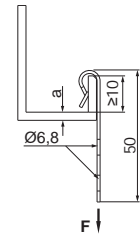
Clamp	ZSK4...	mat.: SCS		
code	catalogue number	dimension \varnothing [mm]	quantity per package [pcs.]	
Material thickness = 1.0 mm				
ZSK406	795601	6-7	100	
ZSK407	795701	7-8	100	
ZSK408	795801	8-9	100	
ZSK409	795901	9-10	100	
ZSK4010	796001	10-11	100	
ZSK4012	796101	12-14	100	
ZSK4015	796201	15-18	100	
ZSK4019	796301	19-24	100	
ZSK4025	796401	25-32	100	



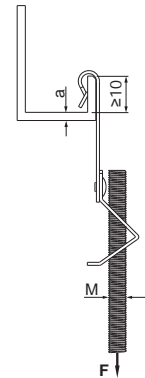
Use:
Suspending cables and pipes to trapezoidal sheets, after drilling a hole of $\varnothing 7$.



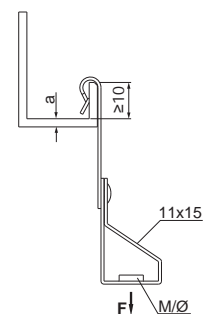
Clamp		ZS1...	mat.: SCS		
code	catalogue number	dimension a [mm]	load max. F_{max} [kN]	quantity per package [pcs.]	
Material thickness = 1.0 mm					
ZS11	790103	1.5-4	0.70	100	
ZS12	790203	4-6.5	0.70	100	



Clamp		ZS2...	mat.: SCS		
code	catalogue number	dimension a/M [mm]	load max. F_{max} [kN]	quantity per package [pcs.]	
Material thickness = 1.0 mm					
ZS21M6	790303	1.5-4/6	0.60	100	
ZS21M8	790403	1.5-4/8	0.70	100	
ZS21M10	790503	1.5-4/10	0.70	100	
ZS22M6	790603	4-6.5/6	0.60	100	
ZS22M8	790703	4-6.5/8	0.70	100	
ZS22M10	790803	4-6.5/10	0.70	100	



Clamp		ZS3...	mat.: SCS			
code	catalogue number	dimension M/a [mm]	dimension Ø/a [mm]	load max. F_{max} [kN]	quantity per package [pcs.]	
Material thickness = 1.0 mm						
ZS31M6	791003	6/1.5-4.0		0.70	100	
ZS31M8	791103	8/1.5-4		0.70	100	
ZS31M10	791203	10/1.5-4		0.70	100	
ZS32M6	791303	6/4.0-6.5		0.70	100	
ZS32M8	791403	8/4.0-6.5		0.70	100	
ZS32M10	791503	10/4.0-6.5		0.70	100	
ZS33	791603		11/1.5 - 4	0.70	100	
ZS34	791703		11/4.0-6.5	0.70	100	

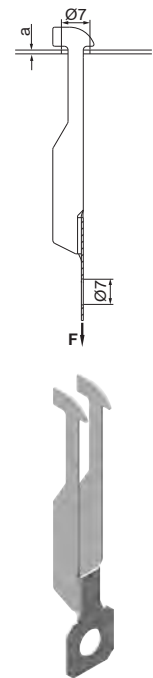
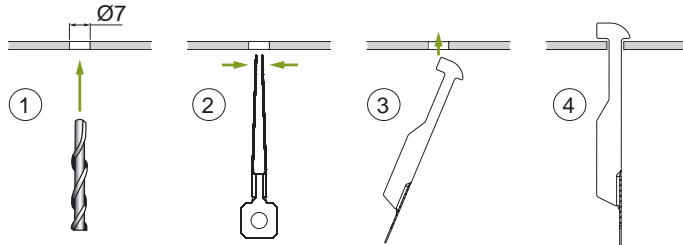


Use:
Suspending light structures to open profiles.



Deck Hanger	WST1	mat.: SCS			
code	catalogue number	dimension a [mm]	load max. F_{max} [kN]	quantity per package [pcs.]	
Material thickness = 1.0 mm					
WST1	798101	0.8-3	0.45	100	

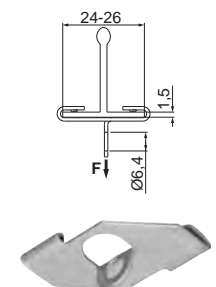
Use:
Suspending cables and pipes to trapezoidal sheets, after drilling a hole of $\varnothing 7$.



T-Grid Clamp	ZRT...	mat.: SCS			
code	catalogue number	load max. F_{max} [kN]	quantity per package [pcs.]		
ZRT	798702	0.18	100		
ZRTL	798703	0.18	100		

Additional information:

- Suspending wire slings, wires, S-hooks or chains to the T-grate
- quick, simple and safe screwed mounting
- mounting requires no tools
- ZRTL material – painted spring steel.

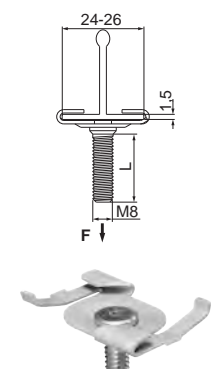


T-Grid Clamp	ZRTS...	mat.: SCS			
code	catalogue number	dimension L [mm]	load max. F_{max} [kN]	quantity per package [pcs.]	
ZRTSM6x11	798704	11	0.22	100	
ZRTSM6x16	798705	16	0.22	100	

Use:
Suspending light structures to suspended ceiling grids.

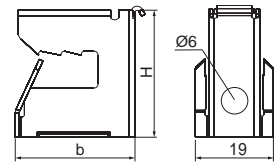
Additional information:

- suspending electrical fixtures to the T24 acoustic grid of the modular ceiling
- mounting requires no tools
- quick, simple and safe screwed mounting

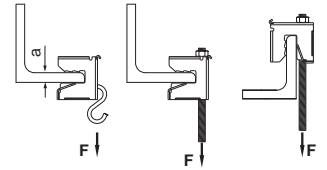




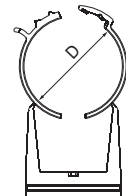
Clamp	ZT...	mat.: SCS		
code	catalogue number	dimension H/b/a _{min} /a _{max} [mm]	load max. F _{max} [kN]	quantity per package [pcs.]
ZT8	790102	30/30/2/8	1.20	100
ZT16	790202	38/32/8/16	1.20	100



Use:
Suspending light structures to open profiles.



Self Locking Clip	USZ...	mat.: PA6		
code	catalogue number	dimension D _{min} /D _{max} [mm]	quantity per package [pcs.]	
USZ12	790602	10/12	150	
USZ15	790702	14/16	100	
USZ18	790802	16.5/20	100	
USZ22	790902	20/23	100	
USZ26	791002	25/29	50	
USZ32	791102	32/35	50	
USZ42	791202	40/45	25	
USZ50	791302	48/55	25	
USZ60	791402	58.5/60	20	



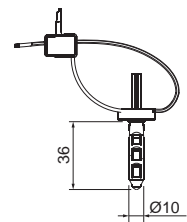
Use:
Mounting pipes and cables with dimensions from 10 to 60 mm.

Additional information:

- can be used indoors and outdoors
- is used in heating, sanitary, mechanical and electrical installations.



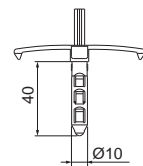
Cable Clip	UKT1	mat.: PP	
code	catalogue number		quantity per package [pcs.]
UKT1	790402		100



Use:
Suspending cables and cables.



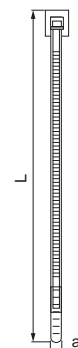
Cable Clip	UKT2	mat.: PP	
code	catalogue number		quantity per package [pcs.]
UKT2	790502		100



Use:
Direct fixing of cables and cables to walls and ceilings.



UV Cable Tie	OPK...	mat.: PA		
code	catalogue number	dimension a/L [mm]	breaking force [kN]	quantity per package [pcs.]
OPK80x2,5/UV	762508	2.5/80	0.08	100
OPK100x2,5/UV	762510	2.5/100	0.08	100
OPK200x2,5/UV	762521	2.5/200	0.08	100
OPK200x3,6/UV	763620	3.6/200	0.18	100
OPK300x3,6/UV	763630	3.6/300	0.18	100
OPK200x4,8/UV	764820	4.8/200	0.22	100
OPK250x4,8/UV	764826	4.8/250	0.22	100
OPK300x4,8/UV	764830	4.8/300	0.22	100
OPK350x4,8/UV	764835	4.8/350	0.22	100
OPK400x4,8/UV	764838	4.8/400	0.22	100



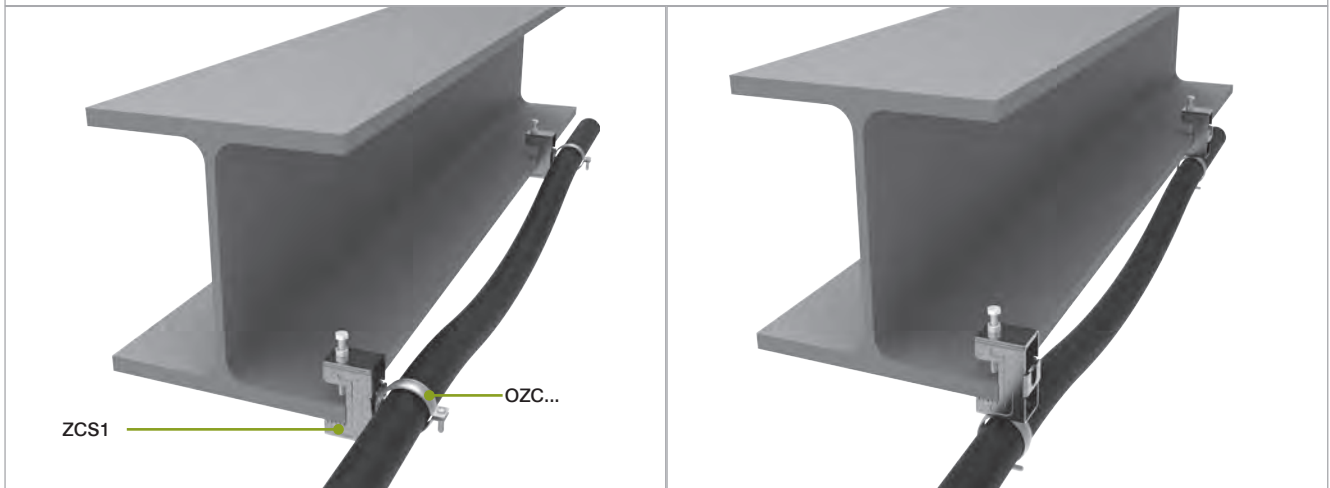
Use:
Fast mounting electrical cables to cable routes. Easy cable separation, large adjustment range and non-invasive mounting.

Additional information:

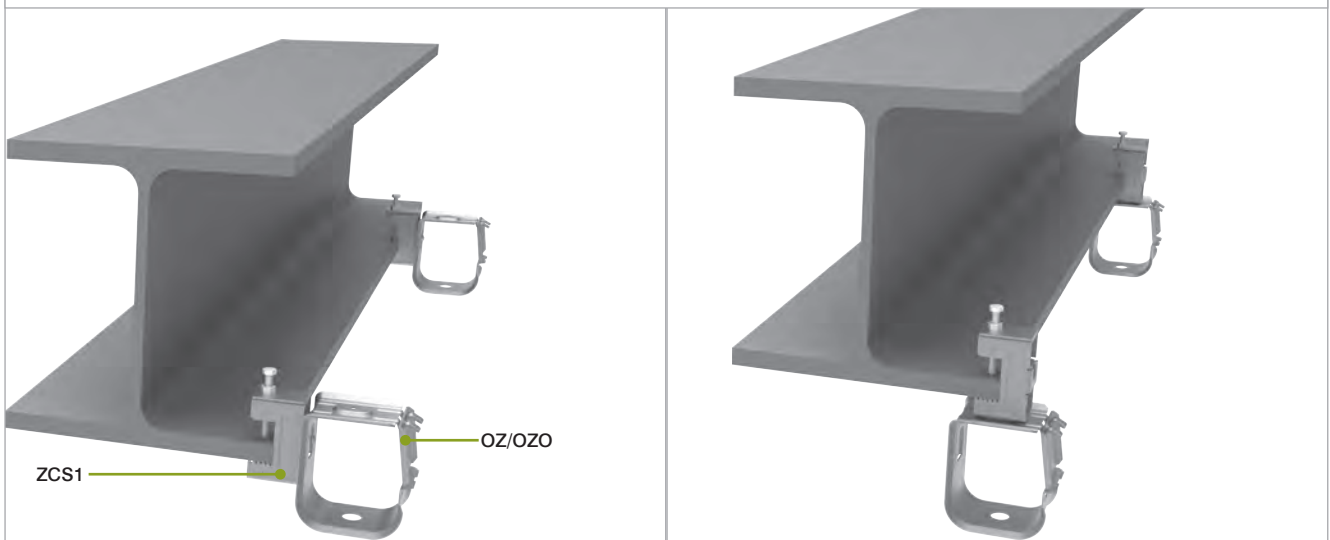
- in cable assemblies with fire resistance E30 - E90 can be used for cable segregation - they do not replace dedicated holders of type UK... or UDF...
- UV-resistant
- polyamide without halogens and silicone
- temperature operating range -40 – +80 °C
- high mechanical strength
- resistance to a wide range of chemicals
- resistance to seawater
- black



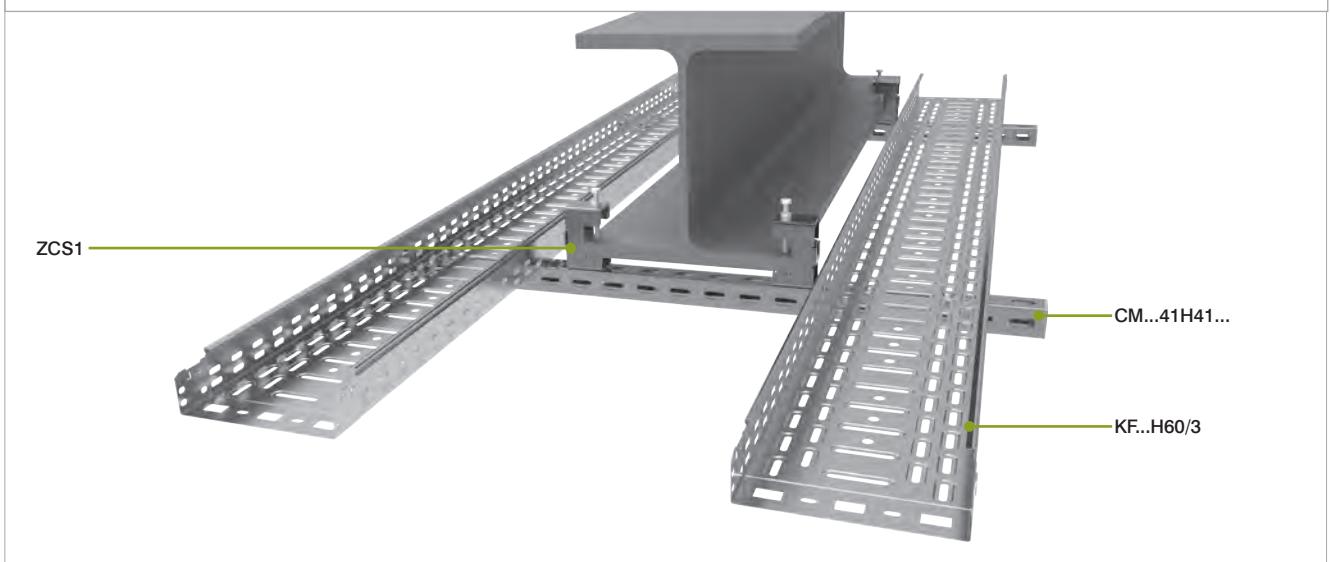
Example of use of ZCS1 hangers and OZC... cable clips



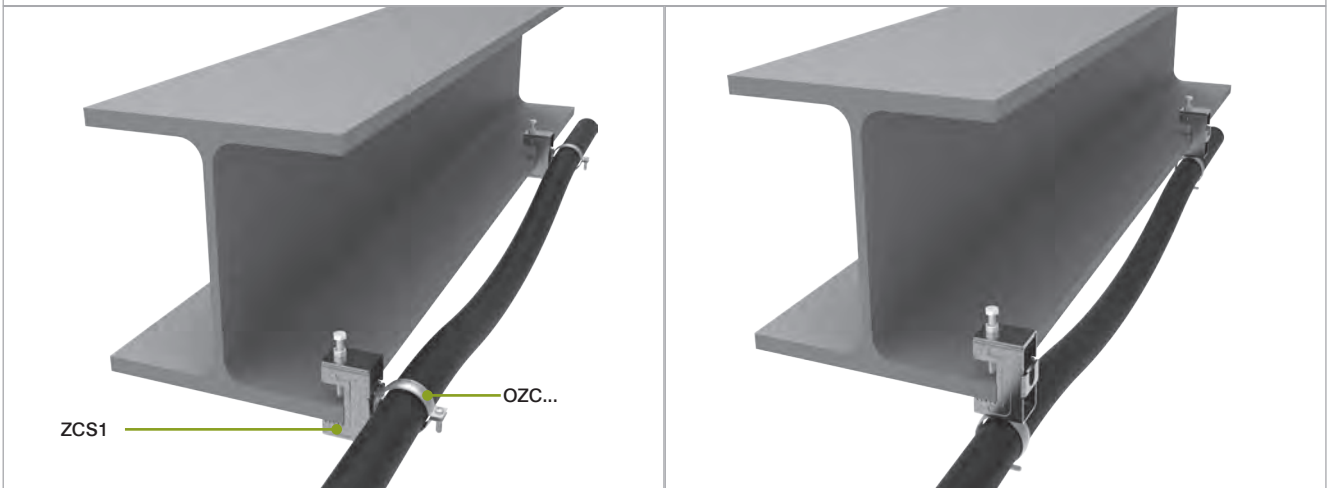
Example of using ZCS1 hangers and OZ/OZO cable clips



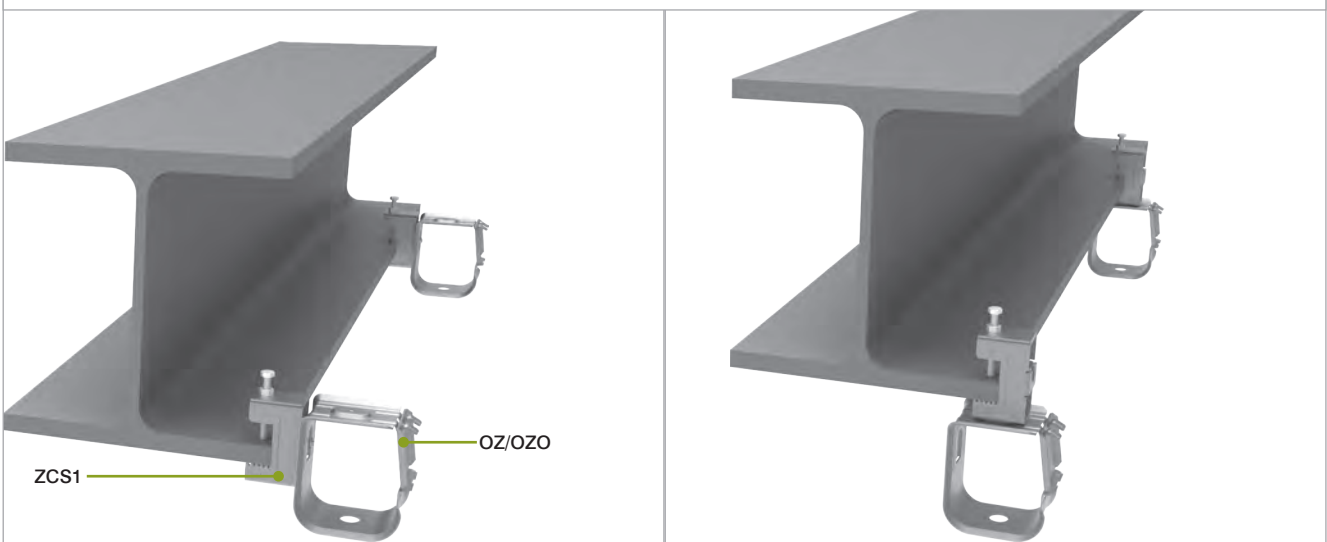
Example of application of ZCS1 hangers and CM...41H41 channels



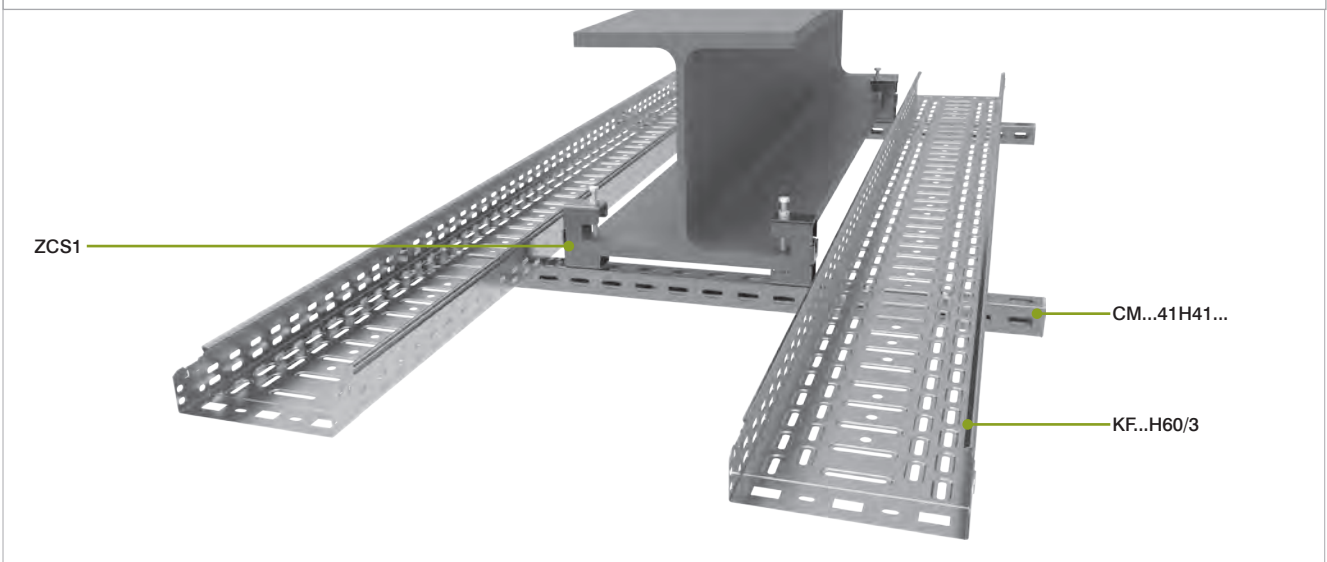
Example of use of ZCS1 hangers and OZC... cable clips



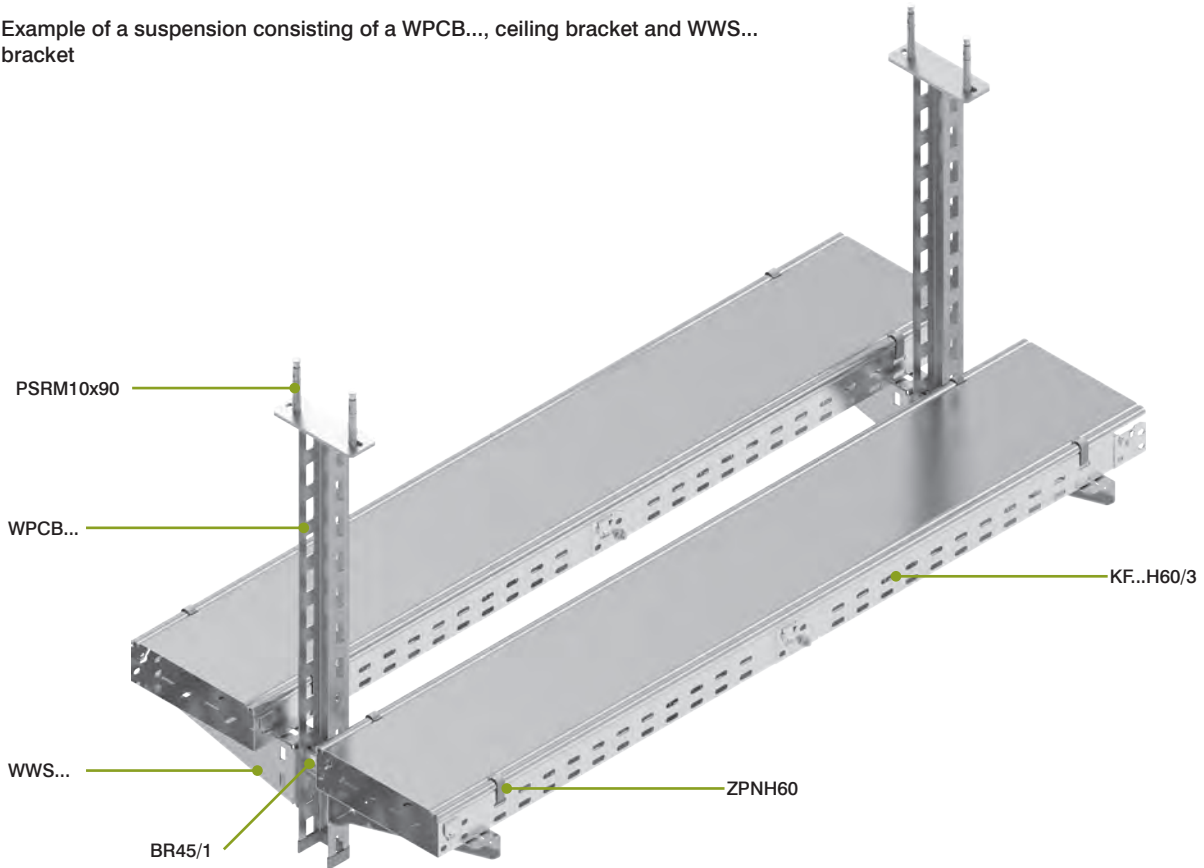
Example of using ZCS1 hangers and OZ/OZO cable clips



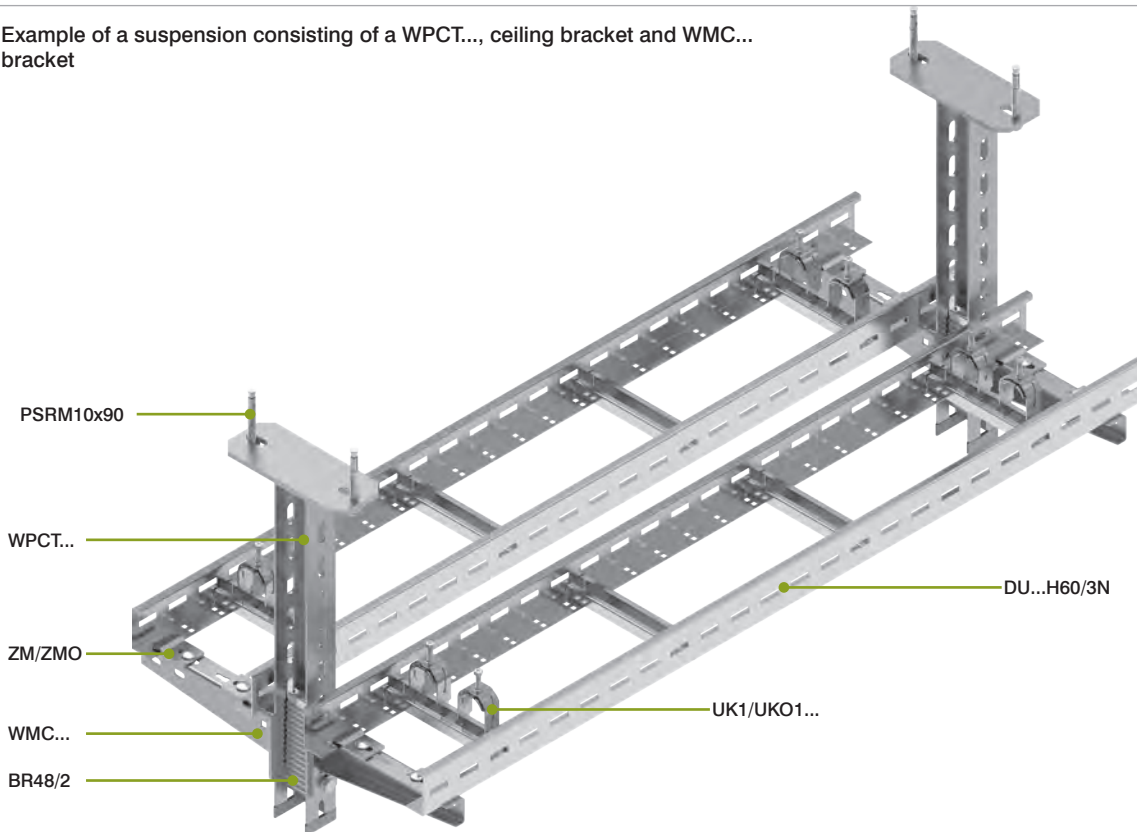
Example of application of ZCS1 hangers and CM...41H41 channels



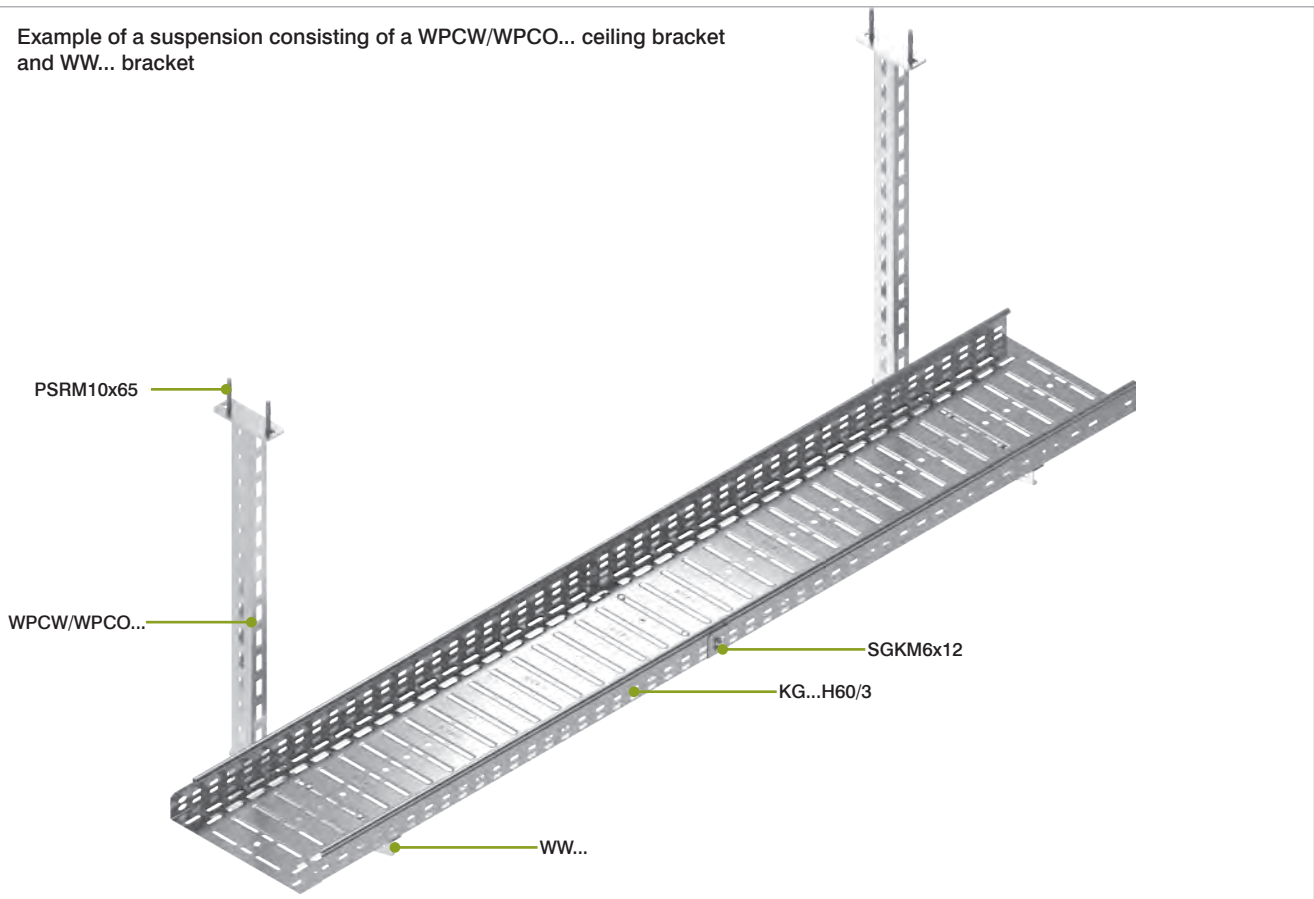
Example of a suspension consisting of a WPCB..., ceiling bracket and WWS... bracket



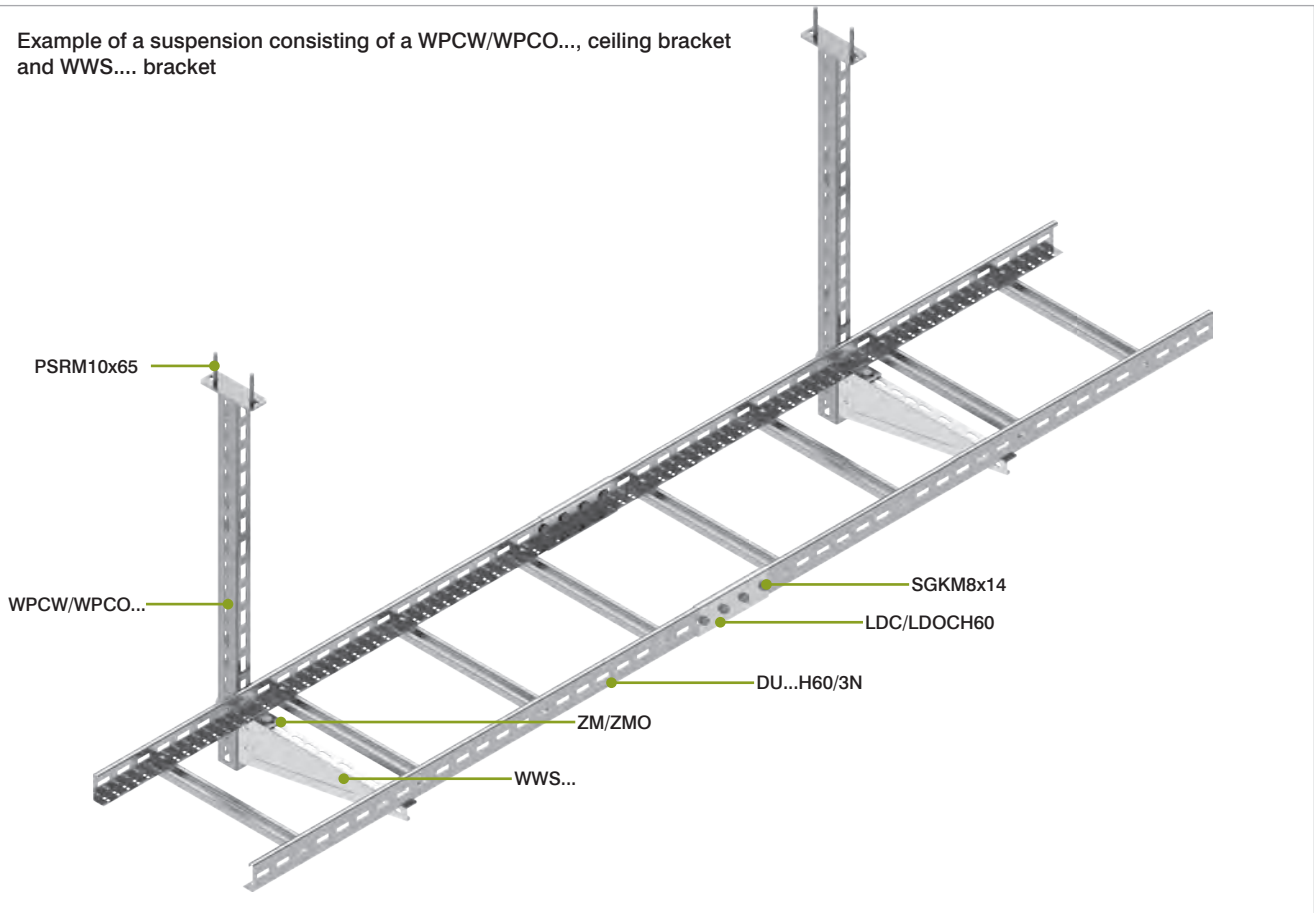
Example of a suspension consisting of a WPCT..., ceiling bracket and WMC... bracket



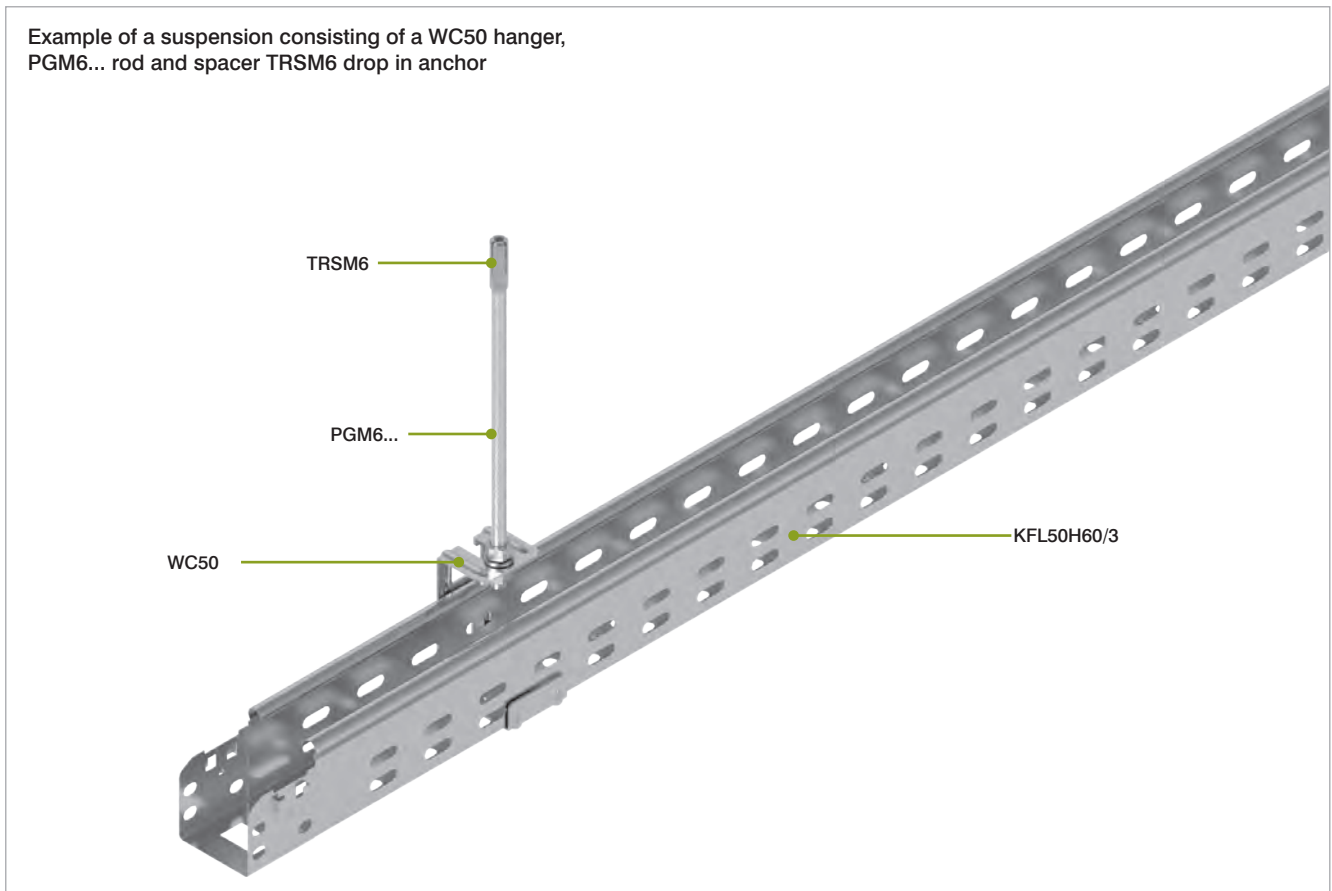
Example of a suspension consisting of a WPCW/WPCO... ceiling bracket and WW... bracket



Example of a suspension consisting of a WPCW/WPCO..., ceiling bracket and WWS.... bracket



Example of a suspension consisting of a WC50 hanger, PGM6... rod and spacer TRSM6 drop in anchor



Example of application of ZSK1... beam clips

