

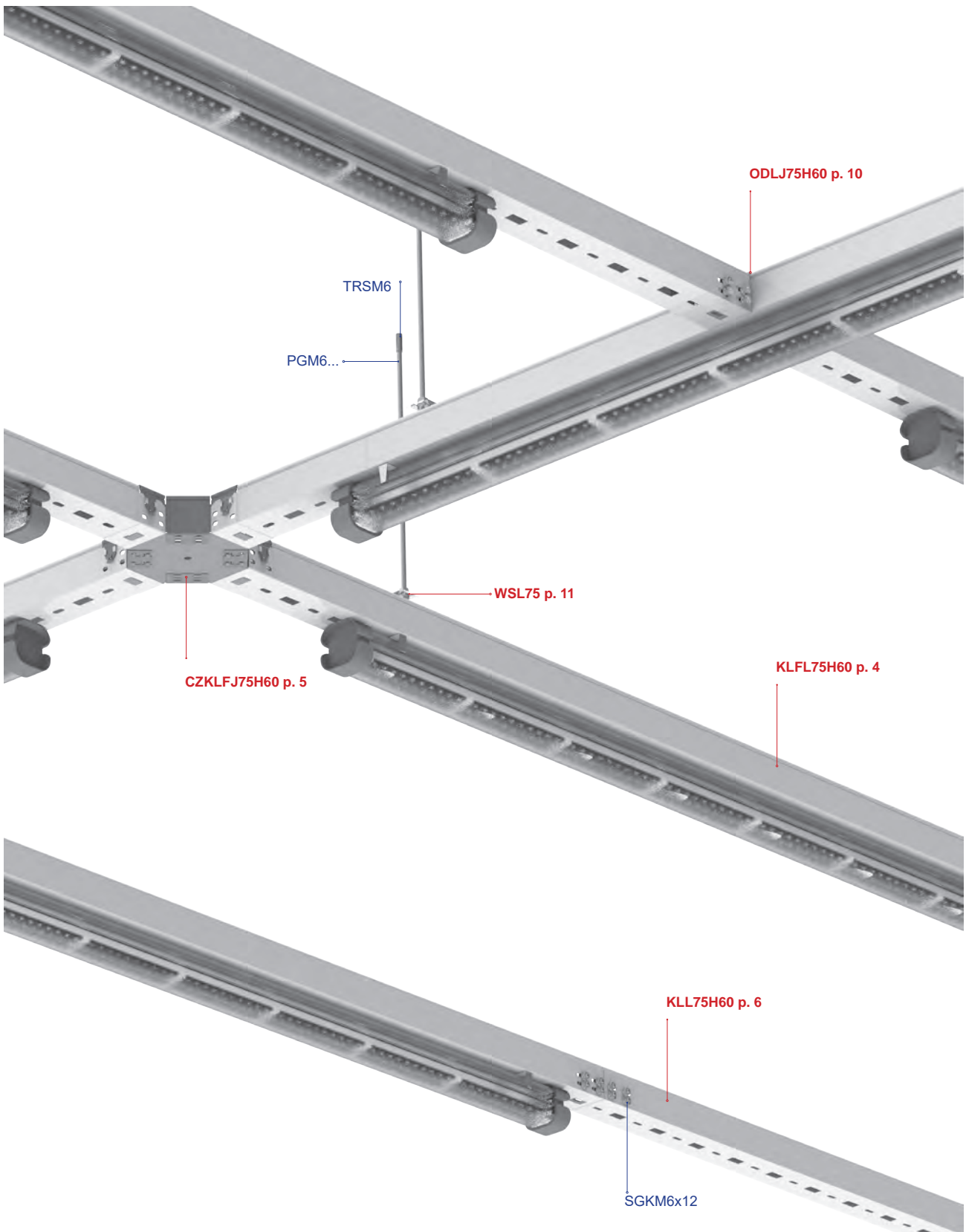
## ADVANTAGES OF THE LIGHTING TRUNKING SYSTEM

The lighting system is dedicated to running long lighting strings in shopping centres, commercial spaces, offices, etc. The powder-coated trays add to the aesthetics of the rooms, and the suspension system has been properly designed to be as inconspicuous as possible.

1. CLICK type KLF snap connection trays with a new system of snap fittings (elbows, bends, tees, cross-overs)
  - innovative snap connection without the need for bolting greatly speeds up the installation of the cable route
  - significant savings in the assembly time of the cable route, the connection of two trays or a tray with a fitting takes a few seconds; the system of KLF snap connection trays can be assembled without bolts in 90%
2. KLWL... trays connect by sliding one into the other without the use of connectors.
3. Can be powder coated in any RAL colour.
4. The system is equipped with accessories for mounting in such a way that the user, when looking at the route from below, sees as little mounting hardware as possible (internal hangers, internal connectors, etc.).
5. Ensured electrical continuity of all types of KLF... CLICK and KLWL... trays and all dimensions of trays confirmed by VDE certificates according to standards: PN-EN 61537:2007, DIN EN 61537:2007
6. A complete system containing shaped elements, such as: elbows, tees, cross-overs, bends, covers, etc., allowing any formation of cable routes - this ensures speed and professionalism in installation, aesthetic qualities of the cable route as well as protection of cables from UV radiation, mechanical damage and dirt (covers)
7. Calculation modules on the website - ability to quickly and optimally select ladders based on load and duty.
8. It is possible to manufacture trays in various coatings and materials: Sendzimir method galvanised steel according to PN-EN 10346:2015-09 (coating thickness approx. 19 µm), hot-dip galvanised steel according to PN-EN ISO 1461:2023-02 (up to 100 µm), Magnelis-coated steel (zinc-magnesium-aluminium coating) according to PN-EN 10346:2015-09, 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.
9. We produce from high quality materials, sheet metal, manufactured in Western European steel mills (Arcelor Mittal Eisenhüttenstadt, 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. Fully automated production process of self-supporting ladders and trays and all system elements - thus ensuring high quality and repeatability of production with the precision of 0.1 mm.
11. Technology and production quality at the highest level globally, thanks to the use of machinery from the best manufacturers on the market.
12. 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 fulfil customer orders within expedited lead times.
13. We cooperate with leading cable manufacturers and jointly carry out E90 fire resistance tests according to DIN 4102-1
14. BAKS has been specialising in the production of cable routes for 36 years. Our extensive experience enables the design and manufacture of customised cable routes and support structures for use in all weather conditions.
15. For each large project, we dedicate at least 1 engineer, as technical support.
16. We organise free product training for designers, salespersons and fitters at BAKS production facility or at the customer's site at a convenient time.
17. We boast recommendations from customers for many completed investments in Western Europe
18. We equip retail outlets with: sample boards, stands with catalogues and advertising materials, banners.
19. All the necessary certificates and approvals for KLF... and KKLWL... trays:
  - 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 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





**Cable Tray Click**

**KLFL75H60** mat.: S

code	catalogue number	dimension a/L [mm]	weight 1 m [kg]	quantity per package [m]
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**Material thickness = 0.7 mm**

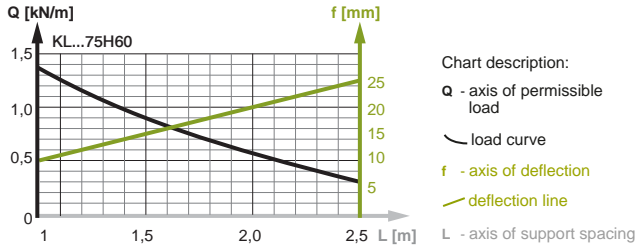
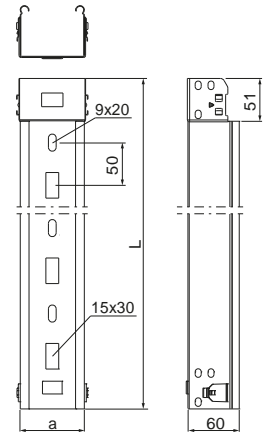
KLFL75H60/3	164522	75/3000	1.12	12
KLFL75H60/6	164622	75/6000	1.12	24

**Use:**

Suspending lighting.

**Additional information:**

- quick and easy mounting
- stable snap-in connection
- connector-less system



**Connector**

**LUFJ75H60** mat.: S

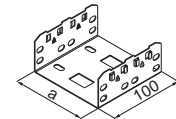
code	catalogue number	Internal dimension a [mm]	weight 1 pc. [kg]	quantity per package [pcs.]
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**Material thickness = 1.0 mm**

LUFJ75H60	160576	77	0.16	1
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**Use:**

Screwless connection of CLICK trays/fitings, extension of the cable route.



**Connector**

**LUPFJ75H60** mat.: S

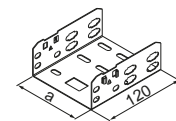
code	catalogue number	Internal dimension a [mm]	weight 1 pc. [kg]	quantity per package [pcs.]
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**Material thickness = 1.0 mm**

LUPFJ75H60	160577	77	0.17	1
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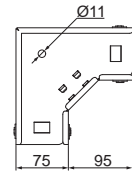
**Use:**

Connecting cut KLFL75H60... trays with CLICK fittings. Can be combined with standard trays.

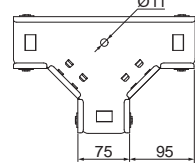




Horizontal Bend 90°	KKFLJ75H60	mat.: S	quantity per package [pcs.]
code	catalogue number	weight 1 pc. [kg]	
<b>Material thickness = 1.0 mm</b>			
KKFLJ75H60	160627	0.43	1



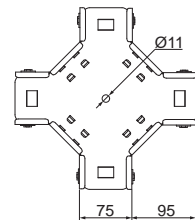
Horizontal Tee	TKFLJ75H60	mat.: S	quantity per package [pcs.]
code	catalogue number	weight 1 pc. [kg]	
<b>Material thickness = 1.0 mm</b>			
TKFLJ75H60	160827	0.54	1



**Use:**  
CLICK type cable route branching.

**Additional information:**  
– screwless mounting

Horizontal Cross-over	CZKFLJ75H60	mat.: S	quantity per package [pcs.]
code	catalogue number	weight 1 pc. [kg]	
<b>Material thickness = 1.0 mm</b>			
CZKFLJ75H60	161027	0.67	1



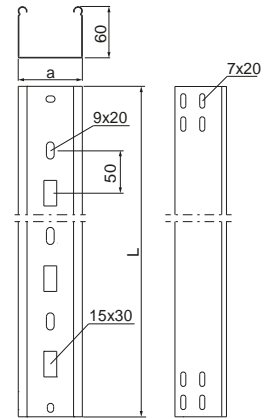
**Use:**  
CLICK type cable route branching.

**Additional information:**  
– screwless mounting



Cable Tray		KLL75H60	mat.: S	option: F, E	N
code	catalogue number	dimension a/L [mm]	weight 1 m [kg]	quantity per package [m]	
<b>Material thickness = 0.7 mm</b>					
KLL75H60/3	160107	75/3000	1.12	12	
KLL75H60/6	160207	75/6000	1.12	24	

**Additional information:**  
 - connecting with fasteners  
 - use SGK6x12 or SGM6x12 bolts for mounting  
 - option E – only for sections up to 3 m



Painted Cable Tray		KLL75H60L	mat.: S, L	N
code	catalogue number	dimension a/L [mm]	weight 1 m [kg]	
<b>Material thickness = 0.7 mm</b>				
KLL75H60/3L	160507	75/3000	1.12	12
KLL75H60/6L	163007	75/6000	1.12	24

**Additional information:**  
 - single-sided painting in white – RAL 9010



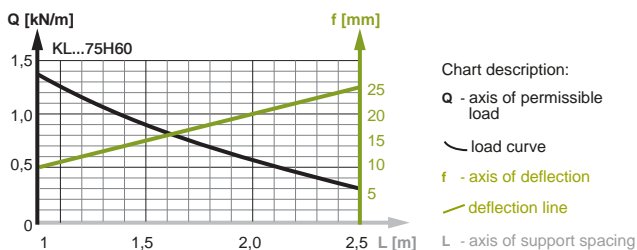
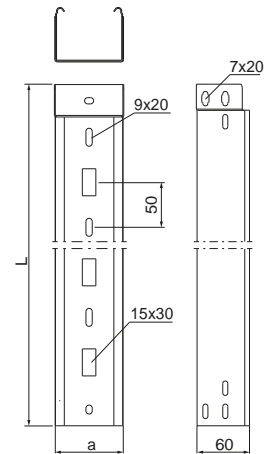
Cable Tray		KLWL75H60	mat.: S	option: F, E	N
code	catalogue number	dimension a/L [mm]	weight 1 m [kg]	quantity per package [m]	
<b>Material thickness = 0.7 mm</b>					
KLWL75H60/3	164007	75/3000	1.12	12	
KLWL75H60/6	164107	75/6000	1.12	24	

**Additional information:**  
 - possibility of connecting the trays by sliding one into the other and mounting without connectors  
 - use SGK6x12 or SGM6x12 bolts for mounting  
 - option E – only for sections up to 3 m

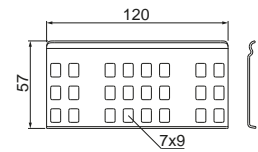
Painted Cable Tray		KLWL75H60L	mat.: S, L	N
code	catalogue number	dimension a/L [mm]	weight 1 m [kg]	
<b>Material thickness = 0.7 mm</b>				
KLWL75H60/3L	164207	75/3000	1.12	12
KLWL75H60/6L	164307	75/6000	1.12	24

**Use:**  
 Suspending lighting.

**Additional information:**  
 - possibility of connecting the trays by sliding one into the other and mounting without connectors  
 - use SGK6x12 or SGM6x12 bolts for mounting  
 - single-sided painting in white – RAL 9010



Connector	LPU...H60	mat.: S	option: FP, E, L		
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]	min. order [pcs.]	
<b>Material thickness = 1.0 mm</b>					
LPU1H60	166621	0.03	100	2	



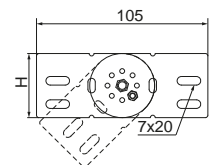
**Use:**  
Connecting regular trays, lighting trays and cut-to-length KF... trays

**Additional information:**

- mounting with 4 sets of SGKM6x12 or SGM6x12 bolts
- thanks to dense perforation, the connector fits all BAKS trays of a given height



Articulated connector	LG...H60	mat.: S	option: FP, E, L		
code	catalogue number	dimension H [mm]	weight 1 pc. [kg]	quantity per package [pcs.]	min. order [pcs.]
<b>Material thickness = 1.0 mm</b>					
LGJH60	162400	48	0.08	100	2



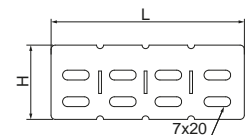
**Use:**  
Connecting and changing the direction of route.

**Additional information:**

- mounting with 4 sets of SGKM6x12 or SGM6x12 bolts



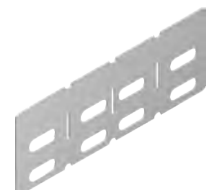
Angle Connector	LKJ...H60	mat.: S	option: F, E, L		
code	catalogue number	dimension H/L [mm]	weight 1 pc. [kg]	quantity per package [pcs.]	min. order [pcs.]
<b>Material thickness = 1.0 mm</b>					
LKJ/LKOJH60	162500	46/140	0.04	100	2
LKJH60/1	162600	46/1000	0.29	10	2



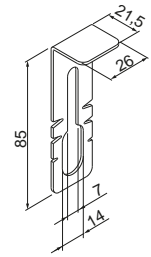
**Use:**  
Connecting and changing the direction of route.

**Additional information:**

- possibility to break out and bend any section
- mounting with bolts SGKM6x12 or SGM6x12

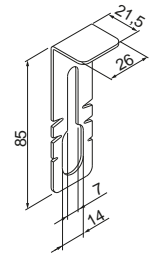


Cover Clamp	ZAP1	mat.: S		
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]	
<b>Material thickness = 1.5 mm</b>				
ZAP1	130900	0.04	100	



**Additional information:**  
 – mounting with bolts: SGKM6x12 or SGM6x12

Cover Clamp	ZAP1L	mat.: S, L		
code	catalogue number	weight 1 pc. [kg]	quantity per package	
<b>Material thickness = 1.5 mm</b>				
ZAP1L	130904	0.04	100	



**Additional information:**  
 – mounting with bolts SGKM6x12 or SGM6x12

Cover Clamp	ZAP1F	mat.: FP		
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]	
<b>Material thickness = 1.5 mm</b>				
ZAP1F	130901	0.04	100	



**Additional information:**  
 – mounting with bolts SGFM6x12 or SGKFM6x12

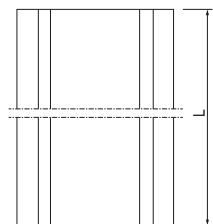
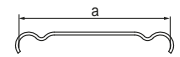
Cover Clamp	ZAP1E	mat.: E		
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]	
<b>Material thickness = 1.5 mm</b>				
ZAP1E	130902	0.04	100	



**Use:**  
 Mounting covers.

**Additional information:**  
 – mounting with bolts SGKM6x12E or SGM6x12E

Cover	PKLR75/3	mat.: S	option: F, E	
code	catalogue number	dimension a/L [mm]	weight 1 m	quantity per package [m]
<b>Material thickness = 0.7 mm</b>				
PKLR75/3	163507	75/3000	0.34	12



Painted Cover	PKLR75/3L	mat.: S, L		
code	catalogue number	dimension a/L [mm]	weight 1 m [kg]	quantity per package [m]
<b>Material thickness = 0.7 mm</b>				
PKLR75/3L	163607	75/3000	0.34	12

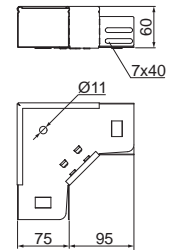
**Use:**  
 Protection of cables from damage.

**Additional information:**  
 – single-sided painting in white – RAL 9010





Horizontal Bend 90°		KKLJ75H60	mat.: S	option: F, E	
code	catalogue number	dimension a [mm]	weight 1 pc. [kg]	quantity per package	
<b>Material thickness = 1.0 mm</b>					
KKLJ75H60	160607	75	0.32	20	



**Additional information:**  
 – covers for fittings available on request

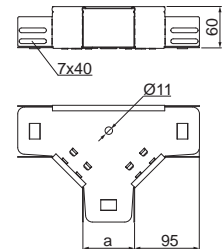
Painted 90° Horizontal Bend		KKLJ75H60L	mat.: S, L		
code	catalogue number	dimension a [mm]	weight 1 pc. [kg]	quantity per package	
<b>Material thickness = 1.0 mm</b>					
KKLJ75H60L	160707	75	0.32	20	



**Use:**  
 Changing the direction of the cable route.

**Additional information:**  
 – covers for fittings available on request  
 – single-sided painting in white – RAL 9010

Horizontal Tee		TKLJ75H60	mat.: S	option: F, E	
code	catalogue number	dimension a [mm]	weight 1 pc. [kg]	quantity per package	
<b>Material thickness = 1.0 mm</b>					
TKLJ75H60	160807	75	0.37	20	



**Additional information:**  
 – covers for fittings available on request

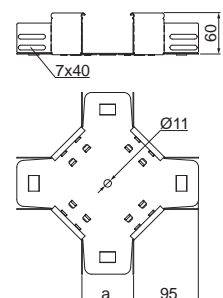
Painted Horizontal Tee		TKLJ75H60L	mat.: S, L		
code	catalogue number	dimension a [mm]	weight 1 pc. [kg]	quantity per package	
<b>Material thickness = 1.0 mm</b>					
TKLJ75H60L	160907	75	0.37	20	



**Use:**  
 Cable route branching.

**Additional information:**  
 – covers for fittings available on request  
 – single-sided painting in white – RAL 9010

Horizontal Cross-over		CZKLJ75H60	mat.: S	option: F, E	
code	catalogue number	dimension a [mm]	weight 1 pc. [kg]	quantity per package	
<b>Material thickness = 1.0 mm</b>					
CZKLJ75H60	161007	75	0.40	20	



**Additional information:**  
 – covers for fittings available on request

Painted Horizontal Cross-over		CZKLJ75H60L	mat.: S, L		
code	catalogue number	dimension a [mm]	weight 1 pc. [kg]	quantity per package	
<b>Material thickness = 1.0 mm</b>					
CZKLJ75H60L	161107	75	0.40	20	

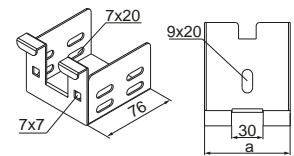


**Use:**  
 Cable route branching.

**Additional information:**  
 – covers for fittings available on request  
 – single-sided painting in white – RAL 9010



<b>Add-on Tee</b>		<b>ODLJ75H60</b>	mat.: S	option: F, E	
code	catalogue number	dimension a [mm]	weight 1 pc. [kg]	quantity per package	
<b>ODLJ75H60</b>	<b>161207</b>	73	0.16	20	



<b>Painted Add-on Tee</b>		<b>ODLJ75H60L</b>	mat.: S, L		
code	catalogue number	dimension a [mm]	weight 1 pc. [kg]	quantity per package	
<b>ODLJ75H60L</b>	<b>161307</b>	73	0.16	20	



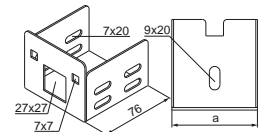
**Use:**

Cable route branching.

**Additional information:**

- single-sided painting in white – RAL 9010

<b>Base Plate</b>		<b>PMLJ75H60</b>	mat.: S	option: F, E	
code	catalogue number	dimension a [mm]	weight 1 pc. [kg]	quantity per package	
<b>PMLJ75H60</b>	<b>163307</b>	73	0.15	20	



<b>Painted Base Plate</b>		<b>PMLJ75H60L</b>	mat.: S, L		
code	catalogue number	dimension a [mm]	weight 1 pc. [kg]	quantity per package	
<b>PMLJ75H60L</b>	<b>163407</b>	73	0.15	20	



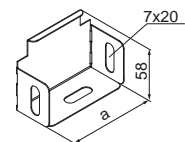
**Use:**

Mounting cable route directly to the wall.

**Additional information:**

- single-sided painting in white – RAL 9010

<b>Blind End</b>		<b>ZKL75H60</b>	mat.: S	option: F, E	
code	catalogue number	dimension a [mm]	weight 1 pc. [kg]	quantity per package	
<b>Material thickness = 0.7 mm</b>					
<b>ZKL75H60</b>	<b>161607</b>	73	0.05	100	



**Use:**

Blanking the cable tray/termination of the cable route.

**Additional information:**

- mounting with bolts SGK6x12 or SGM6x12

<b>Painted Blind End</b>		<b>ZKL75H60L</b>	mat.: S, L		
code	catalogue number	dimension a [mm]	weight 1 pc. [kg]	quantity per package	
<b>Material thickness = 0.7 mm</b>					
<b>ZKL75H60L</b>	<b>163807</b>	73	0.05	100	



**Use:**

Cable route termination.

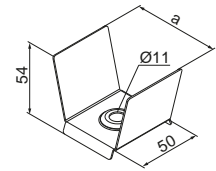
**Additional information:**

- single-sided painting in white – RAL 9010



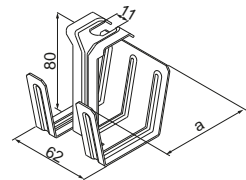
**Ceiling hanger**                      **WLS75**                      mat.: S                      option: F, E

code	catalogue number	dimension a [mm]	weight 1 pc. [kg]	quantity per package [pcs.]
<b>Material thickness = 1.5 mm</b>				
<b>WLS75</b>	<b>161807</b>	75	0.07	100



**Ceiling hanger**                      **WSL75**                      mat.: S                      option: FP, E

code	catalogue number	dimension a [mm]	weight 1 pc. [kg]	quantity per package [pcs.]
<b>Material thickness = 1.5 mm</b>				
<b>WSL75</b>	<b>161907</b>	75	0.08	100

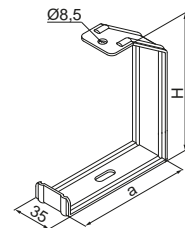


**Additional information:**

- quick mounting of the hanger on the threaded rod
- possibility to adjust the position of the hanger on the bar up to 80 mm
- quick and tool-free mounting hanger with the tray

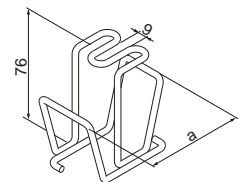
**Ceiling hanger**                      **WSKL75**                      mat.: S                      option: FP, E, L

code	catalogue number	dimension a/H [mm]	weight 1 pc. [kg]	quantity per package [pcs.]
<b>Material thickness = 1.5 mm</b>				
<b>WSKL75</b>	<b>161707</b>	75/105	0.11	100



**Wire hanger**                      **WSLD75**                      mat.: G                      option: F, E, L

code	catalogue number	dimension a [mm]	weight 1 pc. [kg]	quantity per package
<b>WSLD75</b>	<b>161908</b>	75	0.06	100



**Use:**

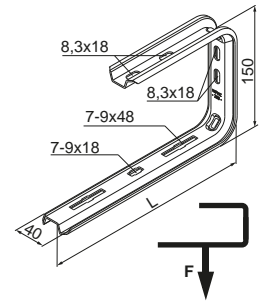
Suspending trays from the ceiling.

**Additional information:**

- quick mounting to ceilings using a rod.



Bracket	WFMC...	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.]
<b>Material thickness = 1.5 mm</b>					
WFMC100	720311	160	0.35	0.26	20



**Use:**

Suspending cable routes.

**Additional information:**

- PD9 spacer is recommended for mounting

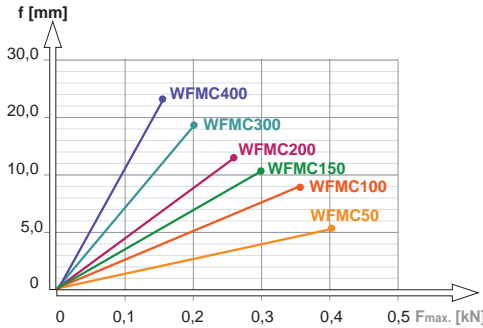


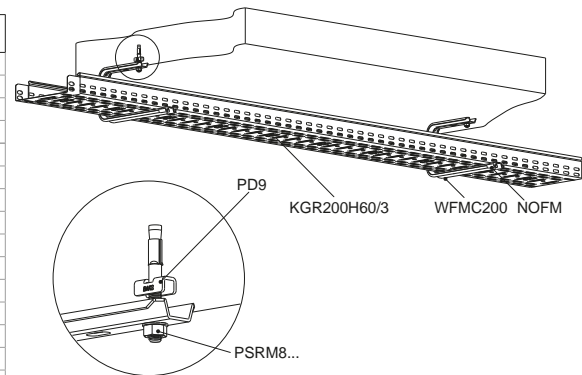
Chart description:

- f - axis of deflection
- deflection line
- $F_{max}$  - maximum load axis



**Ceiling fixing table** - permissible load depending on anchor type.  
The strength parameters shown below are for fixing in at least C16/20 concrete.  
Table description: **A** - bracket symbol, **B** - anchor type, **Fmax.** - maximum load

B▼	A▶	WFMC50	WFMC100	WFMC150	WFMC200	WFMC300	WFMC400
PSRM6x65	Fmax. [kN]	0,40	0,35	0,30	0,25	0,20	0,15
PSRM6x100		0,40	0,35	0,30	0,25	0,20	0,15
PSRM8x75		0,40	0,35	0,30	0,25	0,20	0,15
PSRM8x115		0,40	0,35	0,30	0,25	0,20	0,15
STRM6/10x60		0,40	0,35	0,30	0,25	0,20	0,15
STRM6/10x100		0,40	0,35	0,30	0,25	0,20	0,15
STRM8/12x60		0,40	0,35	0,30	0,25	0,20	0,15
STRM8/12x80		0,40	0,35	0,30	0,25	0,20	0,15
STRM8/12x100		0,40	0,35	0,30	0,25	0,20	0,15
STRM8/12x120		0,40	0,35	0,30	0,25	0,20	0,15
STSM6/10x100		0,40	0,35	0,30	0,25	0,20	0,15
STSM6/10x150		0,40	0,35	0,30	0,25	0,20	0,15
STSM8/12x100		0,40	0,35	0,30	0,25	0,20	0,15
STSM8/12x150		0,40	0,35	0,30	0,25	0,20	0,15
STSM8/12x180		0,40	0,35	0,30	0,25	0,20	0,15



Bracket	WFML...	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.]
<b>Material thickness = 1.5 mm</b>					
<b>WFML100</b>	<b>720111</b>	160	0.40	0.16	30

**Use:**  
Mounting mesh trays, regular trays, cable ladders, pipes and other elements.

- Additional information:**
- PD9 spacer is recommended for mounting
  - on request possible to make wall brackets of non-standard lengths

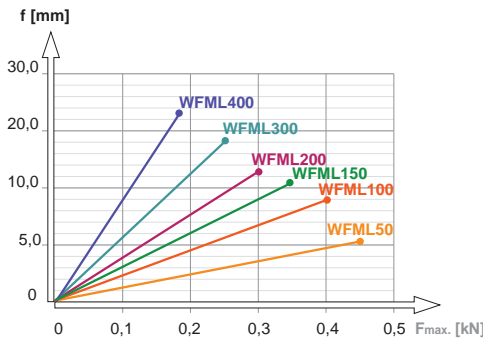
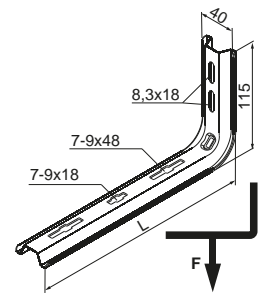
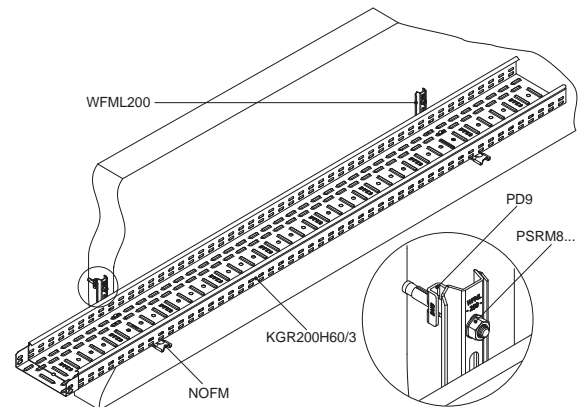


Chart description:  
**f** - axis of deflection  
 - deflection line  
 $F_{max}$  - maximum load axis

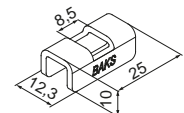
**Wall fixing table** - permissible load depending on anchor type.  
 The strength parameters shown below are for fixing in at least C16/20 concrete.  
 Table description: **A** - bracket symbol, **B** - anchor type, **Fmax.** - maximum load

B	A	WFML50	WFML100	WFML150	WFML200	WFML300	WFML400
PSRM6x65	Fmax. [kN]	0,45	0,40	0,35	0,30	0,25	0,18
PSRM6x100		0,45	0,40	0,35	0,30	0,25	0,18
PSRM8x75		0,45	0,40	0,35	0,30	0,25	0,18
PSRM8x115		0,45	0,40	0,35	0,30	0,25	0,18
STRM6/10x60		0,45	0,40	0,35	0,30	0,25	0,18
STRM6/10x100		0,45	0,40	0,35	0,30	0,25	0,18
STRM8/12x60		0,45	0,40	0,35	0,30	0,25	0,18
STRM8/12x80		0,45	0,40	0,35	0,30	0,25	0,18
STRM8/12x100		0,45	0,40	0,35	0,30	0,25	0,18
STRM8/12x120		0,45	0,40	0,35	0,30	0,25	0,18
STSM6/10x100		0,45	0,40	0,35	0,30	0,25	0,18
STSM6/10x150		0,45	0,40	0,35	0,30	0,25	0,18
STSM8/12x100		0,45	0,40	0,35	0,30	0,25	0,18
STSM8/12x150		0,45	0,40	0,35	0,30	0,25	0,18
STSM8/12x180		0,45	0,40	0,35	0,30	0,25	0,18



Spacer	PD9	mat.: S	option: FP, E, L	
code	catalogue number	weight 1 pc. [kg]	quantity per package [pcs.]	
<b>Material thickness = 2.0 mm</b>				
<b>PD9</b>	<b>803200</b>	0.02	100	

**Use:**  
For WFMC..., WFML..., WFMC... and WFMLS... brackets and PMM... profiles. Use guarantees a stable mounting and prevents the bracket or profile from being crushed when mounted to the ground.



Protective Cap	NOFM	mat.: PE	quantity per package [pcs.]	
code	catalogue number			
<b>NOFM</b>	<b>900667</b>	100		

**Use:**  
Protection of the fitter from injury from steel edges, improving visual aspect. Placed on the end of the pipe bracket.

- Additional information:**
- fits WFML... and WFMC... pipe brackets



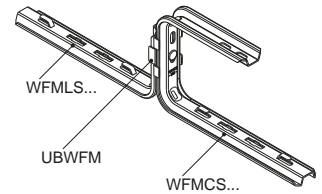
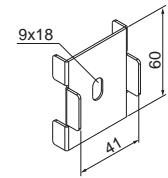


**Side holder for bracket**

**UBWFM**

mat.: S option: FP, E, L

code catalogue number weight 1 pc. [kg] quantity per package [pcs.]



**Material thickness = 1.5 mm**

<b>UBWFM</b>	<b>752510</b>	0.03	10
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**Use:**

Connecting WFML..., WFMCS... brackets WFMLS or WFMCS... vertical part, forming a double-sided or two-level sling.

**Additional information:**

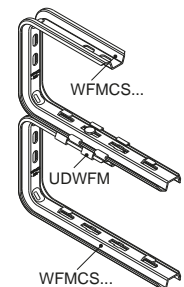
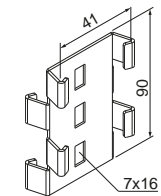
– layout in the table: 1, 2, 4, 5, 7, 8, 10

**Bottom holder for bracket**

**UDWFM**

mat.: S option: FP, E, L

code catalogue number weight 1 pc. [kg] quantity per package [pcs.]



**Material thickness = 1.2 mm**

<b>UDWFM</b>	<b>752515</b>	0.03	10
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**Use:**

Connecting WFML..., WFMCS... brackets WFMLS or WFMCS... horizontal part, forming a two-level sling.

**Additional information:**

– layout in the table: 3, 4, 5

**Chart with loads for WFMCS..., WFMCS... as well as WFML... and WFMLS... in different configurations.**

**A** - configuration

**B** - length in horizontal mounting **WFMCS..., WFMCS..., WFML... or WFMLS**

**C** - length in horizontal mounting **WFML... or WFMLS...**

**F1 and F2** - load (permissible difference between F1 and F2 max. 10%)

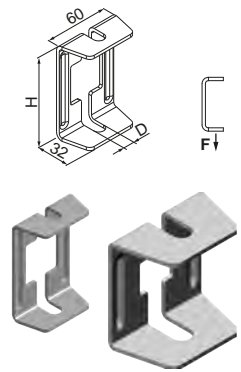
Vertical bracket - maximum **WFML300**

<b>A ▶</b>	<b>1</b>			<b>2</b>			<b>3</b>			<b>4</b>			<b>5</b>		
<b>B ▶</b>	100	200	300	100	200	300	100	200	300	100	200	300	100	200	300
<b>F1 [kg]</b>	15	12	10	30	20	15	20	15	12	30	24	20	20	15	12
<b>F2 [kg]</b>	30	24	20	30	20	15	-	-	-	15	12	10	20	15	12
<b>A ▶</b>	<b>6</b>			<b>7</b>			<b>8</b>			<b>9</b>			<b>10</b>		
<b>C ▶</b>	100	200	300	100	200	300	100	200	300	100	200	300	100	200	300
<b>F1 [kg]</b>	30	20	15	30	20	15	30	20	15	12	8	6	12	8	6
<b>F2 [kg]</b>	-	-	-	-	-	-	30	20	15	-	-	-	-	-	-



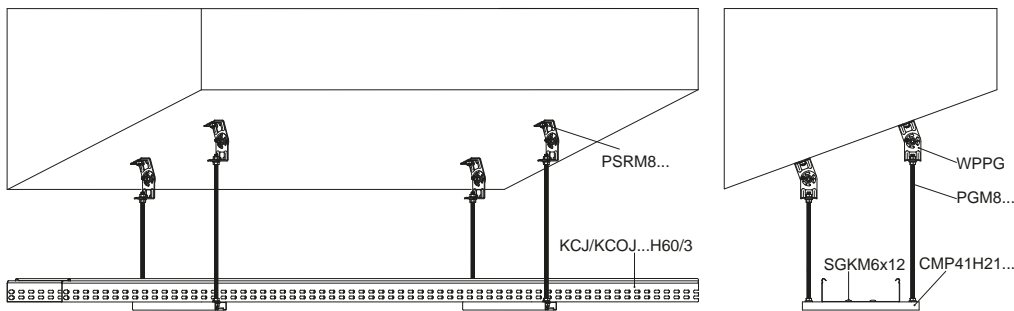
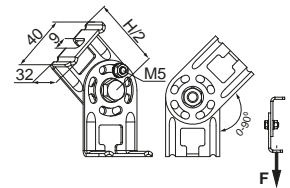
<b>Rod Hanger</b>		<b>US...</b>	mat.: S	option: FP, E, L		
code	catalogue number	dimension D/H [mm]	load max. $F_{max}$ [kN]	weight 1 pc. [kg]	quantity per package [pcs.]	
<b>Material thickness = 2.0 mm</b>						
<b>US9</b>	<b>750708</b>	9/50	1.60	0.10	100	
<b>Material thickness = 3.0 mm</b>						
<b>US12/USO12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

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



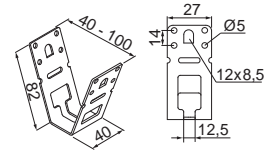
<b>Articulated rod hanger</b>		<b>WPPG</b>	mat.: S	option: FP, E, L		
code	catalogue number	dimension H [mm]	load max. $F_{max}$ [kN]	weight 1 pc. [kg]	quantity per package	
<b>Material thickness = 2.0 mm</b>						
<b>WPPG</b>	<b>731400</b>	93	1.50	0.14	100	

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

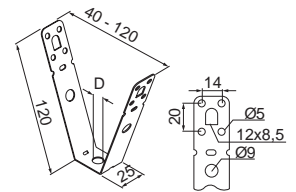




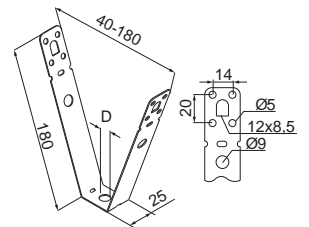
Trapezoidal Ceiling Bracket		WT80	mat.: S	option: FP, E, L
code	catalogue number		load max. $F_{max}$ [kN]	quantity per package [pcs.]
WT80	730408		1.20	100



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

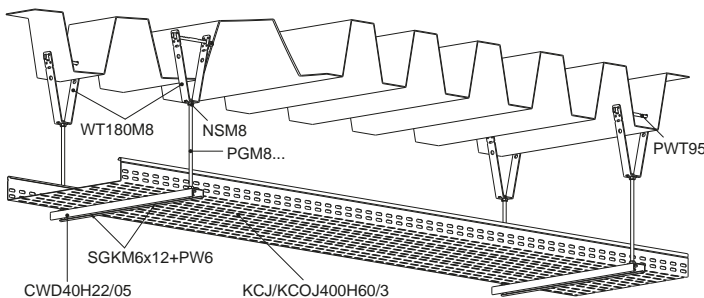


**Use:**

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

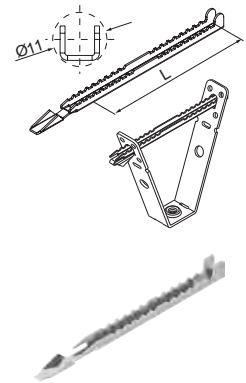
**Additional information:**

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

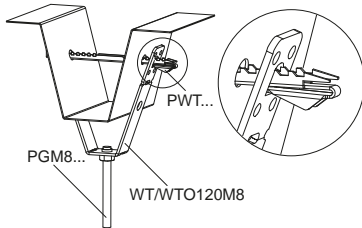




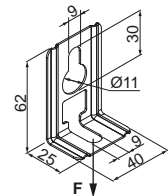
Suspension Pin	PWT...	mat.: S	option: FP, E, L		
code	catalogue number	dimension L [mm]	load max. $F_{max}$ [kN]	quantity per package [pcs.]	
PWT55	731105	55	0.60	200	
PWT95	731109	95	0.60	200	
PWT130	731113	130	0.60	200	



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



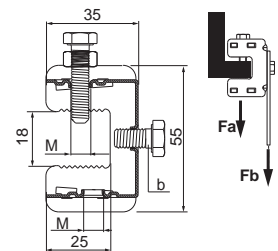
Rod hanger	WP	mat.: S	option: FP, E, L		
code	catalogue number	load max. $F_{max}$ [kN]	weight 1 pc. [kg]	quantity per package [pcs.]	
<b>Material thickness = 2.0 mm</b>					
WP	731300	0.60	0.04	100	



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



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





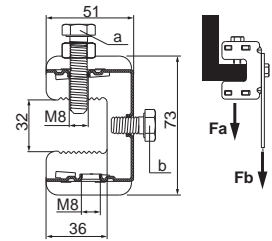
Clamp	ZCS	mat.: FP	option: E, L		
code	catalogue number	load max. $F_{a\ max}$ [kN]	load max. $F_{b\ max}$ [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
ZCS	752502	2.00	0.60	0.20	50

**Use:**

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

**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



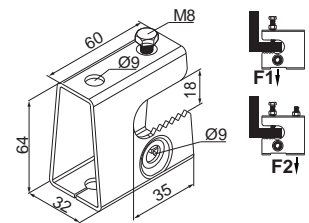
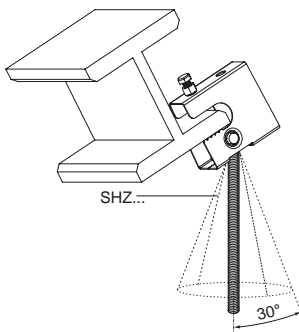
Clamp	ZDT	mat.: S	option: FP, E, L		
code	catalogue number	load max. $F1\ max$ [kN]	load max. $F2\ max$ [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
ZDT	751106	1.50	0.90	0.16	50

**Use:**

Suspending cable routes.

**Additional information:**

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



Clamp	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

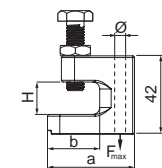


**Use:**

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

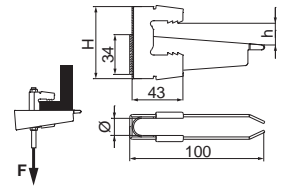
**Additional information:**

- 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





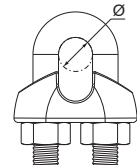
Clamp	ZTK...		mat.: S		quantity per package [pcs.]	
	code	catalogue number	dimension Ø/H [mm]	load max. $F_{max}$ [kN]		weight 1 pc. [kg]
	ZTK6/8	751109	6-8/8-20	2.00	0.15	50
	ZTK10	751209	10/8-22	3.50	0.16	50



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

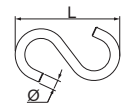


Wire Rope Grip	ZL...		mat.: G option: E	
	code	catalogue number	dimension Ø [mm]	quantity per package [pcs.]
	ZL3	650123	3	100
	ZL5	650323	5	100
	ZL6	650423	6	100
	ZL8	650523	8	50
	ZL10	650623	10	50



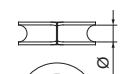
**Use:**  
For crimping wire ropes.

S-Hook	HS...		mat.: G option: E		
	code	catalogue number	dimension Ø/L [mm]	load max. $F_{max}$ [kN]	quantity per package [pcs.]
	HS3	650119	3/34	0.08	100
	HS4	650219	4/40	0.23	100
	HS5	650319	5/48	0.30	100
	HS6	650419	6/60	0.50	100
	HS7	650519	7/70	0.73	100
	HS8	650619	8/79	1.00	100



**Use:**  
Connecting chains.

Thimble	KU...		mat.: G option: E	
	code	catalogue number	dimension Ø [mm]	quantity per package [pcs.]
	KU3	650125	3	100
	KU4	650225	4	100
	KU5	650325	5	100
	KU6	650425	6	100
	KU8	650525	8	100
	KU10	650625	10	100



**Use:**  
Protects the line from abrasion damage.

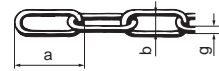


Wire rope		LS...	mat.: G	option: E	
code	catalogue number	dimension $\varnothing$ [mm]	braid	load max. $F_{max}$ [kN]	quantity per package [m]
LS1	266299	1	1x7	0.50	500
LS1,6	650021	1.5	1x7	1.00	300
LS2	650121	2	1x19	1.36	200
LS3	650221	3	6x7	3.11	200
LS4	650321	4	6x7	5.54	150
LS5	650421	5	6x7	8.65	150
LS6	650521	6	6x19	11.50	100
LS8	650621	8	6x19	20.45	100
LS10	650721	10	6x19	32.00	50

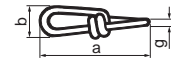


**Use:**  
Mounting structures, suspending cable routes.

Genovese Chain		LNP...	mat.: G	option: E	
code	catalogue number	dimension g/a/b [mm]	load max. $F_{max}$ [kN]	quantity per package [m]	
LNP2,2	650111	2.2/29/10	0.20	30	
LNP2	650211	2/18/9	0.30	110	
LNP3	650311	3/23/12.5	0.50	60	
LNP4	651411	4/27/16	1.00	40	
LNP5	650411	5/31/19	1.60	30	

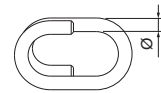


Victor Chain		LNS...	mat.: G	option: E	
code	catalogue number	dimension g/a/b [mm]	load max. $F_{max}$ [kN]	quantity per package [m]	
LNS1,4	650213	1.4/21/6.5	0.15	30	
LNS2	650113	2/28/9	0.40	30	

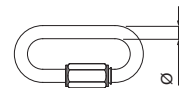


**Use:**  
Suspending cable routes.

Twisted Link		OG...	mat.: G		
code	catalogue number	dimension $\varnothing$ [mm]	load max. $F_{max}$ [kN]	quantity per package [pcs.]	
OG4	650117	4	0.30	100	
OG5	650217	5	0.50	100	
OG6	650317	6	0.60	100	

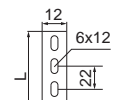


Quick Link		OS...	mat.: G	option: E	
code	catalogue number	dimension $\varnothing$ [mm]	load max. $F_{max}$ [kN]	quantity per package [pcs.]	
OS4	650115	4	0.40	100	
OS5	650215	5	0.75	100	
OS6	650315	6	1.00	100	



**Use:**  
Connecting chains.

Flat bar		PLD12/2	mat.: S	option: E, L	
code	catalogue number	dimension L [mm]	load max. $F_{max}$ [kN]	weight 1 m [kg]	quantity per package [pcs./m]
<b>Material thickness = 1.2 mm</b>					
PLD12/2	640120	2000	0.50	0.10	25/50

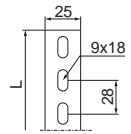
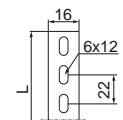


XVII

Flat bar					
		PLP...	mat.: S	option: E, L	
code	catalogue number	dimension L [mm]	load max. $F_{max}$ [kN]	weight 1 m [kg]	quantity per package [pcs./m]

**Material thickness = 1.5 mm**

PLP16/2	640220	2000	1.00	0.17	25/50
PLP25/2	640320	2000	1.50	0.25	25/50



Flat bar					
		PLC...	mat.: S	option: E, L	
code	catalogue number	dimension L [mm]	load max. $F_{max}$ [kN]	weight 1 m [kg]	quantity per package [pcs./m]

**Material thickness = 2.0 mm**

PLC16/2	640420	2000	1.30	0.22	25/50
PLC25/2	640520	2000	2.00	0.30	25/50

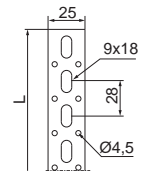
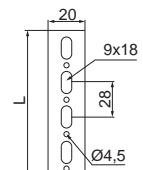


**Use:**  
Suspending installation components, making various types of clamps.

Perforated Steel Band				
		PTJ...	mat.: S	
code	catalogue number	load max. $F_{max}$ [kN]	weight 1 m [kg]	quantity per package [m]

**Material thickness = 1.0 mm**

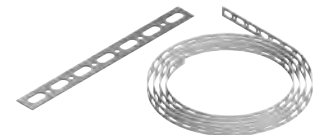
PTJ20/25	640825	0.70	0.12	25
PTJ20/50	640850	0.70	0.12	50
PTJ25/25	640925	1.00	0.15	25
PTJ25/50	640950	1.00	0.15	50



Perforated Steel Band				
		PTP20...	mat.: S	
code	catalogue number	load max. $F_{max}$ [kN]	weight 1 m [kg]	quantity per package [m]

**Material thickness = 1.5 mm**

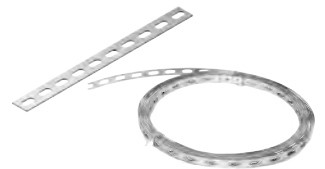
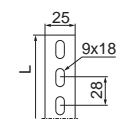
PTP20/25	641025	1.00	0.18	25
PTP20/50	641050	1.00	0.18	50



Perforated Steel Band				
		PTC25...	mat.: S	
code	catalogue number	load max. $F_{max}$ [kN]	weight 1 m [kg]	quantity per package [m]

**Material thickness = 2.0 mm**

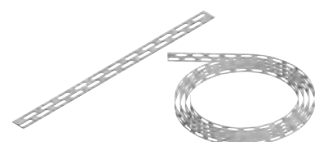
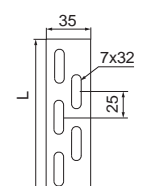
PTC25/25	641325	2.00	0.30	25
PTC25/50	641350	2.00	0.30	50



Perforated Steel Band				
		PTC35...	mat.: S	
code	catalogue number	load max. $F_{max}$ [kN]	weight 1 m [kg]	quantity per package [m]

**Material thickness = 2.0 mm**

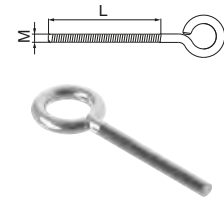
PTC35/25	641825	2.00	0.43	25
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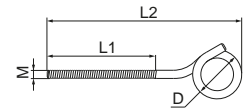
**Use:**  
Suspending installation components, making various types of clamps. Use as a grounding element inside facilities.



Anchor Bolt		SHZ...	mat.: G	option: E
code	catalogue number	dimension M/L [mm]	quantity per package [pcs.]	
SHZM6x80	650129	6/80	100	

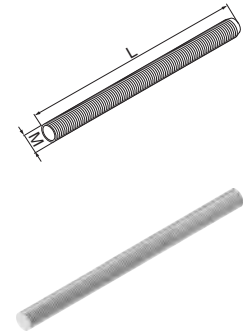


Pigtail Bolt		SH...	mat.: G	option: E
code	catalogue number	dimension M/D/L <sub>1</sub> [mm]	dimension L <sub>2</sub> [mm]	quantity per package [pcs.]
SHM6x80	650127	6/27/75	120	100



**Use:**  
Mounting structures, suspending cable routes.

Threaded rod		PGCM...	mat.: G		
code	catalogue number	dimension M/L [mm]	breaking force [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
PGCM6/1	652901	6/1000	8.4	0.12	100
PGCM6/2	652301	6/2000	8.4	0.23	50
PGCM6/3	652331	6/3000	8.4	0.36	50
PGCM8/1	652401	8/1000	15.4	0.32	50
PGCM8/2	652501	8/2000	15.4	0.64	25
PGCM8/3	652701	8/3000	15.4	0.96	25
PGCM10/1	653001	10/1000	24.4	0.49	25
PGCM10/2	652601	10/2000	24.4	1.00	25
PGCM10/3	652801	10/3000	24.4	1.50	25



**Additional information:**  
– material class 4.8

Threaded rod		PGM...	mat.: G	option: E	
code	catalogue number	dimension M/L [mm]	breaking force [kN]	weight 1 pc. [kg]	quantity per package [pcs.]
PGM6/1	650301	6/1000	10.4	0.16	50
PGM6/2	650401	6/2000	10.4	0.32	50
PGM6/3	651401	6/3000	10.4	0.48	50
PGM8/01	650501	8/100	19	0.03	100
PGM8/02	650601	8/200	19	0.06	100
PGM8/03	650701	8/300	19	0.09	50
PGM8/1	650801	8/1000	19	0.32	50
PGM8/2	650901	8/2000	19	0.64	25
PGM8/3	651501	8/3000	19	0.96	25
PGM10/1	651001	10/1000	30.2	0.49	25
PGM10/2	651101	10/2000	30.2	1.00	25
PGM10/3	651601	10/3000	30.2	1.50	25



**Use:**  
Suspending cable routes.  
**Additional information:**  
– material class 5.8

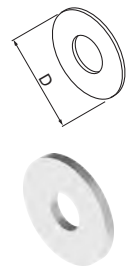


Washer		PP...	mat.: G	option: F, E	
code	catalogue number	use with	outside diameter D [mm]	quantity per package [pcs.]	
PP6	650744	M6	12	100	
PP8	650444	M8	16	100	
PP10	650544	M10	20	100	



**Additional information:**  
 – size according to DIN 125

Large Washer		PW...	mat.: G	option: F, E	
code	catalogue number	use with	outside diameter D [mm]	quantity per package [pcs.]	
PW6	650844	M6	18	100	
PW8	650944	M8	24	100	
PW10	651044	M10	30	100	

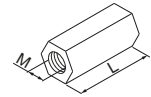


**Use:**  
 Separation of the bolt and nut from the actual material that is joined by them, reducing the risk of loosening the nut.

**Additional information:**  
 – size according to DIN 9021

## Rod Connector

code	NL... catalogue number	mat.: G dimension M/L [mm]	option: E quantity per package [pcs.]
NLM6	650103	6/18	100
NLM8	650203	8/24	100
NLM10	650303	10/30	50



### Use:

Connecting threaded rods of equal diameters.

## Nut

code	NS... catalogue number	mat.: G dimension M [mm]	option: F, FP, E quantity per package [pcs.]
NSM6	650044	6	100
NSM8	650144	8	100
NSM10	650244	10	100



### Use:

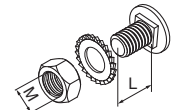
Connecting system components.

### Additional information:

– size according to DIN 934

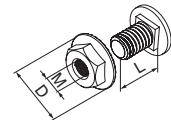
## Oval head screw (set)

code	SG... catalogue number	mat.: G dimension M/L [mm]	option: FP, E quantity per package [pcs.]
SGM6x10	650141	6/10	100
SGM6x12	650641	6/12	100
SGM6x25	650241	6/25	100



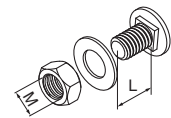
## Screw Set

code	SGK... catalogue number	mat.: G dimension M/L [mm]	option: E flange D [mm]	quantity per package [pcs.]
SGKM6x10	651041	6/10	13	100
SGKM6x12	651141	6/12	13	100
SGKM6x14	655041	6/14	13	100



## Oval head screw (set)

code	SGF... catalogue number	mat.: FP dimension M/L [mm]	option: E quantity per package [pcs.]
SGFM6x12	650166	6/12	100

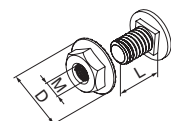


### Use:

Connecting system components.

## [English]: Śruba z łbem grzybkowym + nakrętka kołnierkowa ząbkowana (kpl.)

code	SGKF... catalogue number	mat.: FP dimension M/L [mm]	option: E flange D [mm]	quantity per package [pcs.]
SGKFM6x12	651441	6/12	13	100



### Use:

Connecting system components.

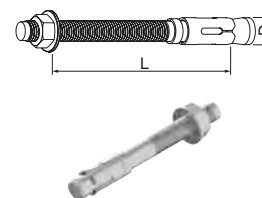
### Additional information:

– 8.8 grade bolt



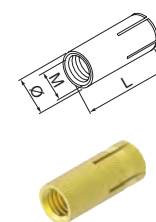


Anchor Bolt	PSR...	mat.: G	option: FP, E
code	catalogue number	dimension D/L [mm]	quantity per package [pcs.]
PSRM6x65	650153	6/65	200
PSRM6x100	650253	6/100	100
PSRM8x75	650353	8/75	100
PSRM8x115	650453	8/115	100
PSRM10x115	651115	10/115	50



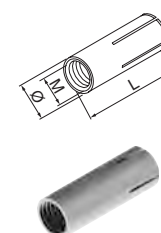
**Use:**  
Mounting structures and suspending cable routes from the concrete substrate.

Drop-In Anchor Brass	TRM...	mat.: MOS	
code	catalogue number	dimension Ø/M/L [mm]	quantity per package [pcs.]
TRMM8	650209	10/8/30	100
TRMM10	650309	12/10/40	50



**Additional information:**  
– minimum anchoring depth equal to the length of the sleeve

Drop-In Anchor	TRS...	mat.: G	option: E
code	catalogue number	dimension Ø/M/L [mm]	quantity per package [pcs.]
TRSM8	650207	10/8/30	100
TRSM10	650307	12/10/40	100



**Use:**  
Suspending cable routes.

**Additional information:**  
– minimum anchoring depth equal to the length of the sleeve  
– for mounting, use the OTR... steel sleeve mounting tool

## CLIK connections

KKFLJ75H60



TKFLJ75H60



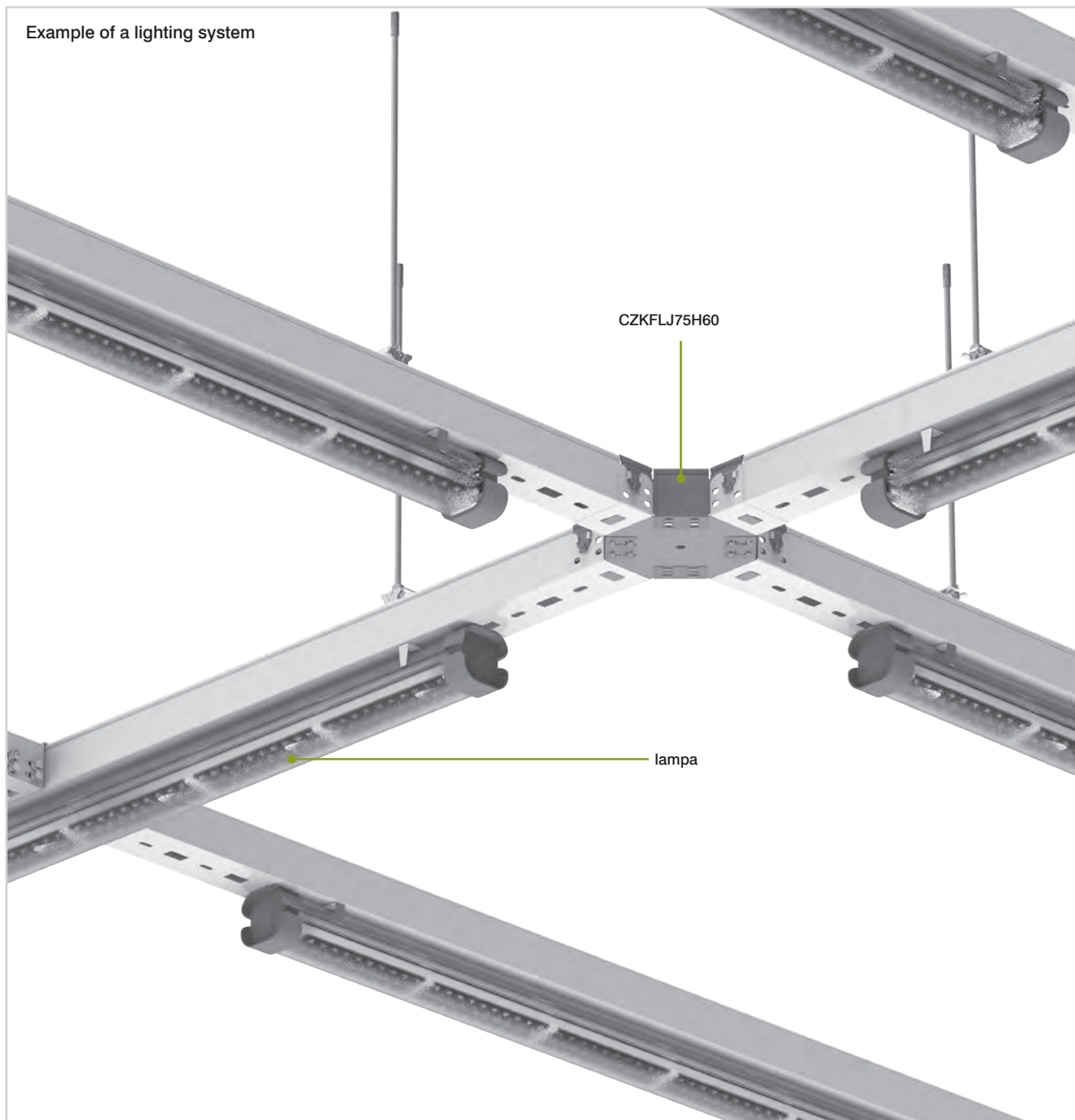
CZKFLJ75H60



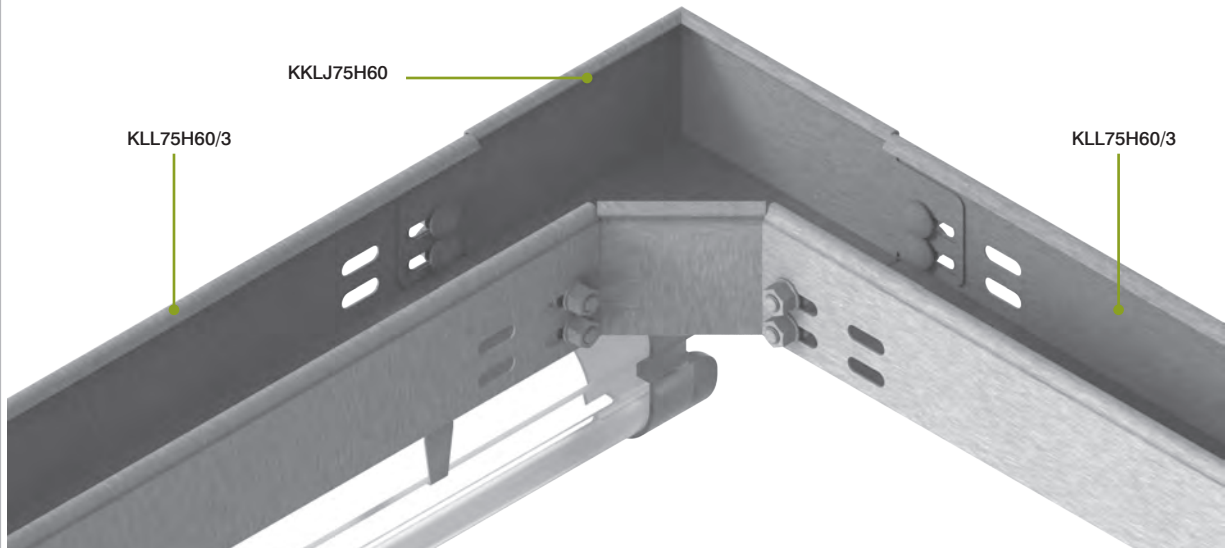
**Advantages:**

- easy and quick screwless assembly
- aesthetics

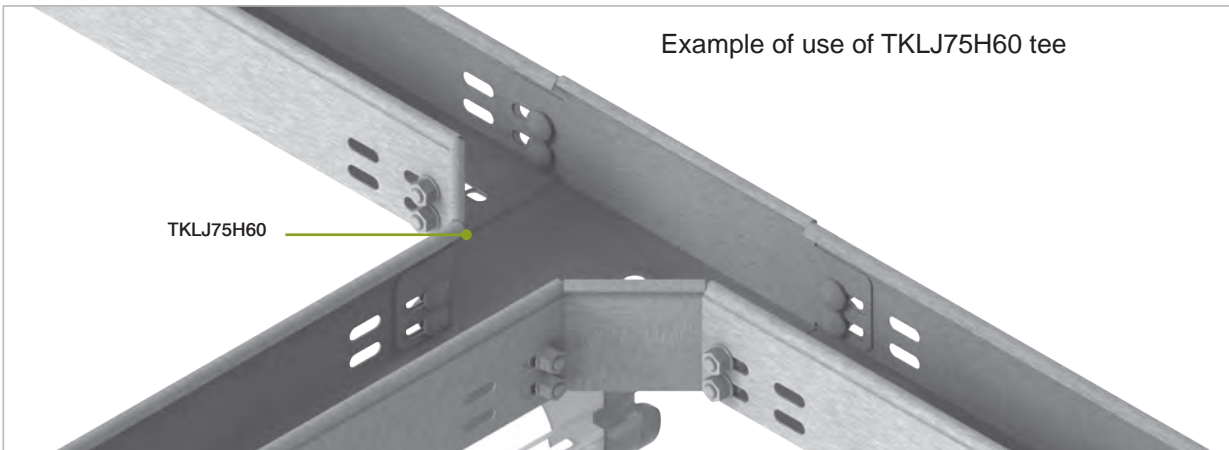
Example of a lighting system



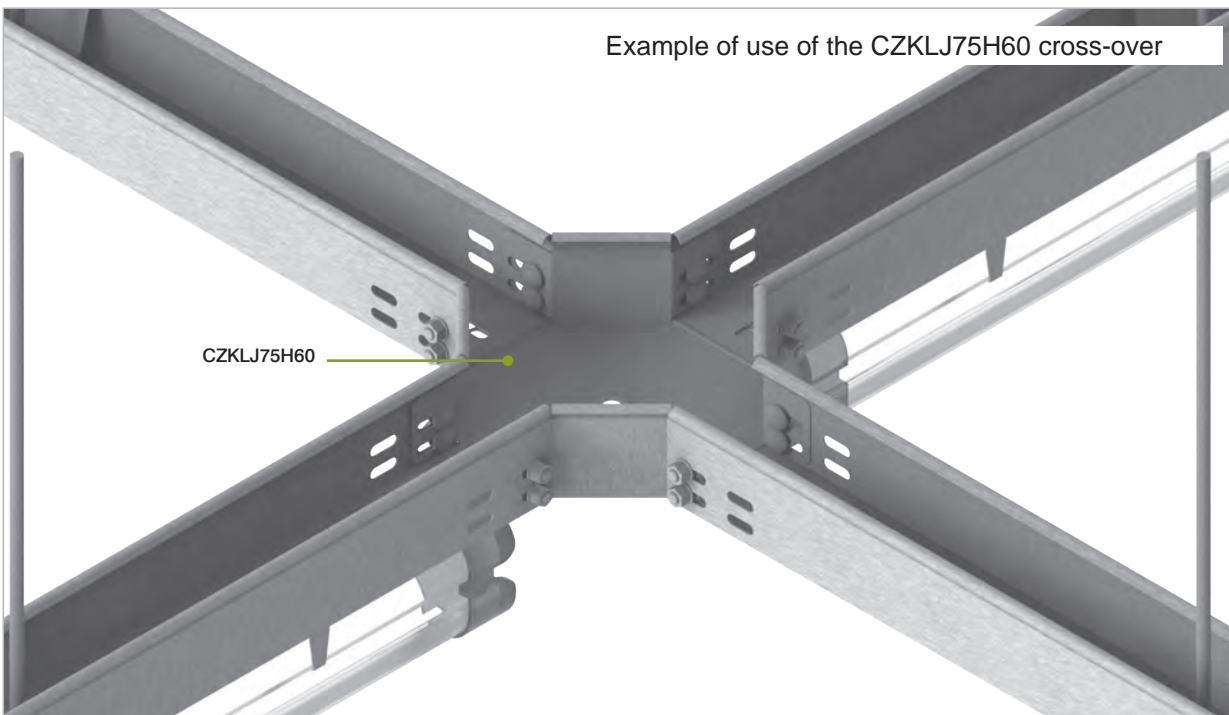
Example of application of KKLJ75H60 bend



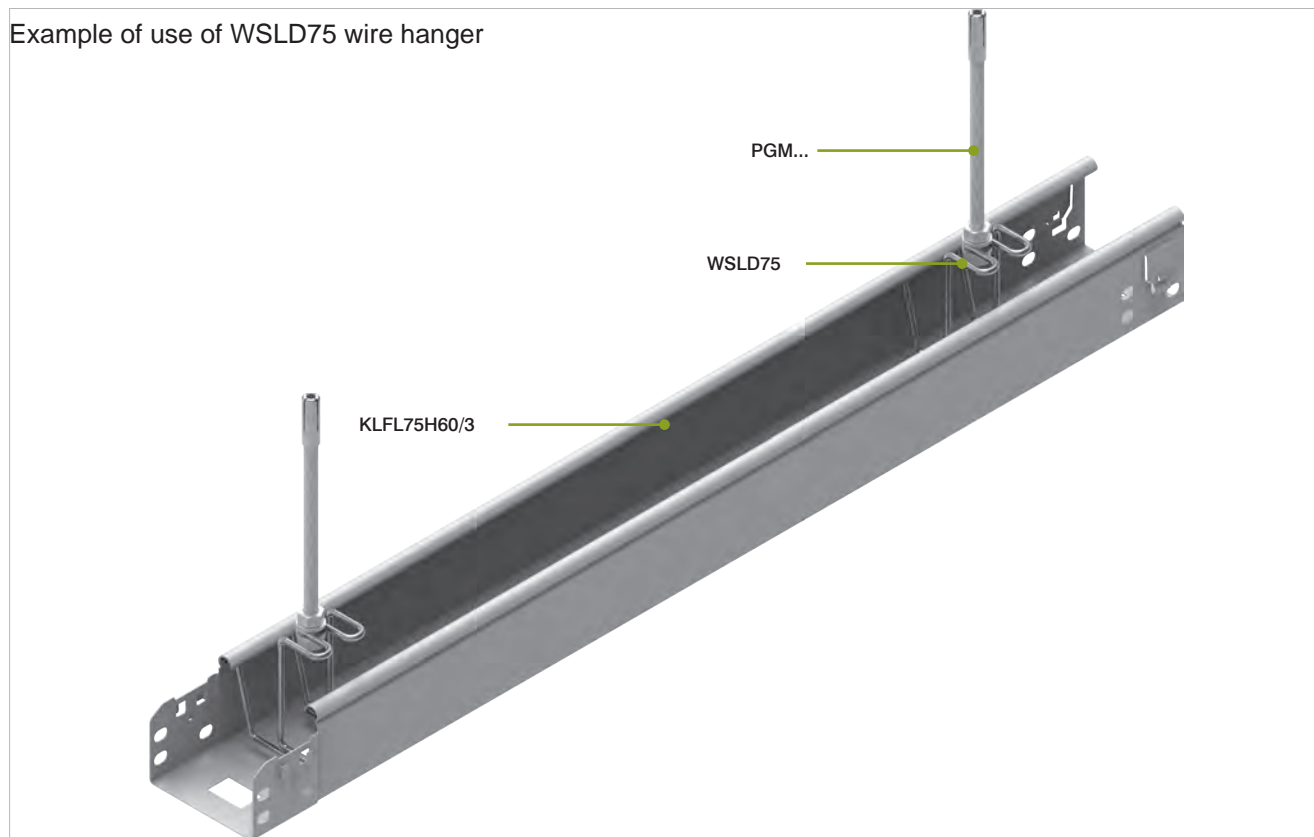
Example of use of TKLJ75H60 tee



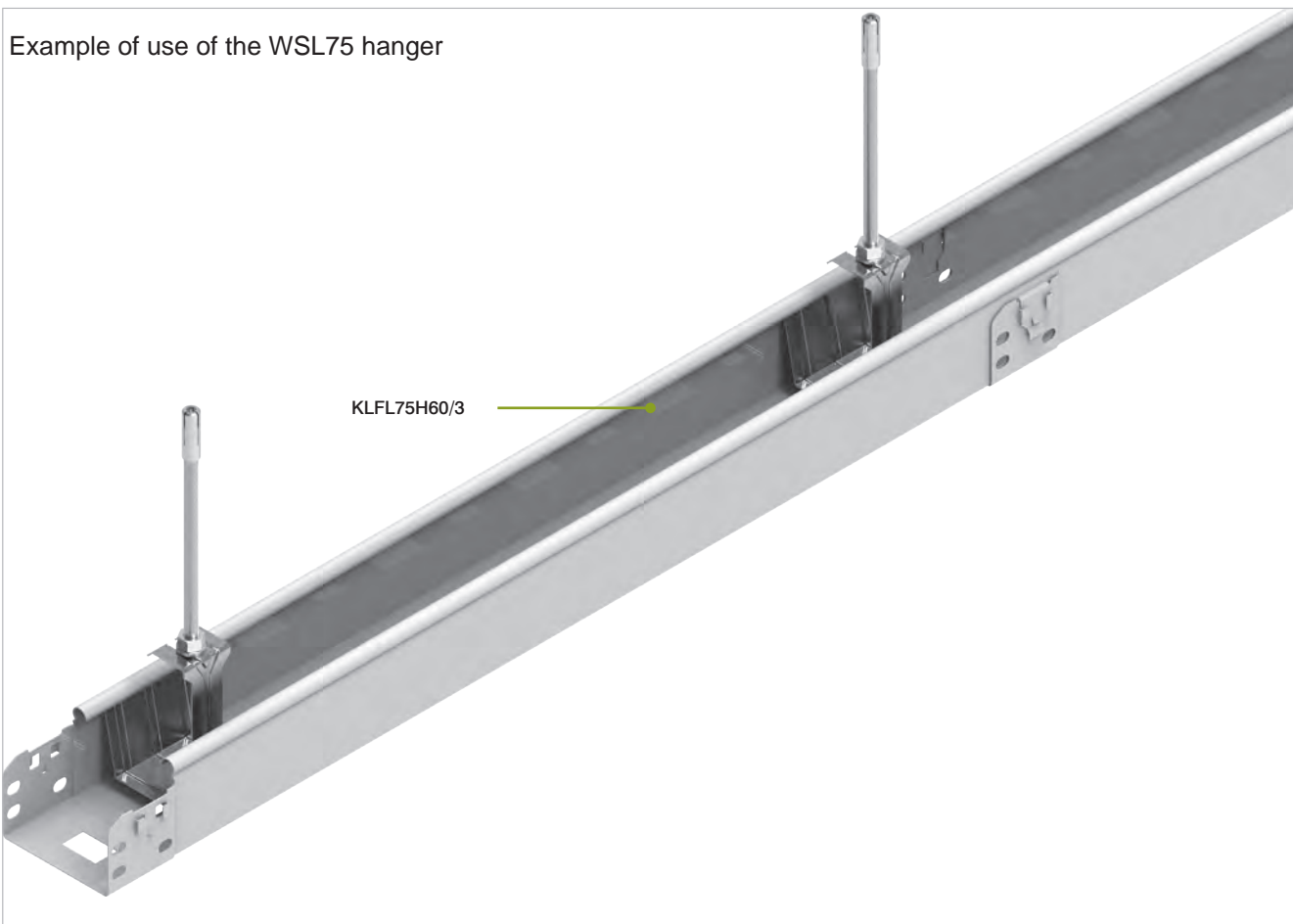
Example of use of the CZKLJ75H60 cross-over



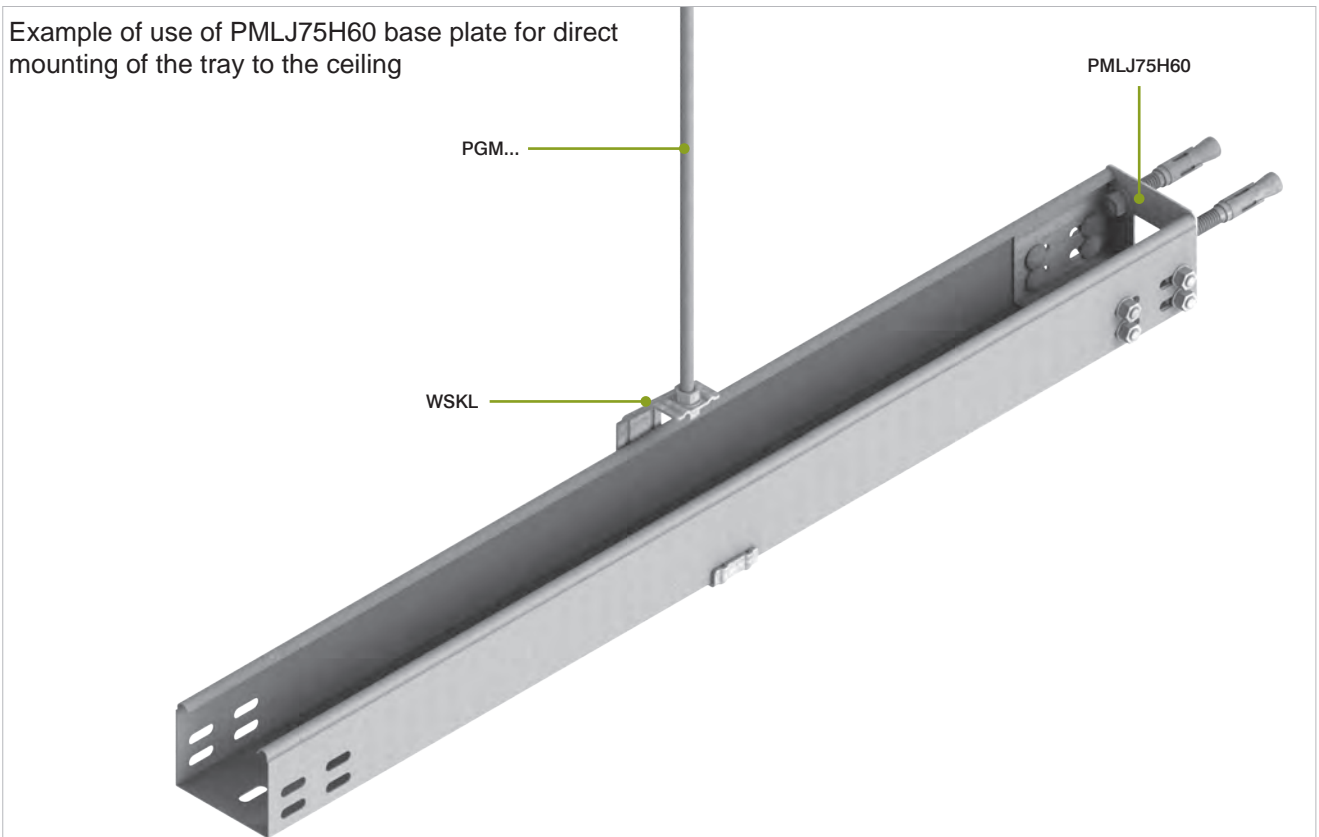
Example of use of WSLD75 wire hanger



Example of use of the WSL75 hanger



Example of use of PMLJ75H60 base plate for direct mounting of the tray to the ceiling



Application example of ODLJ75H60 add on tee

