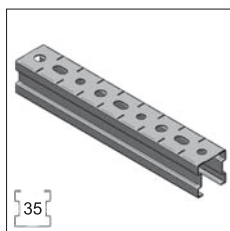
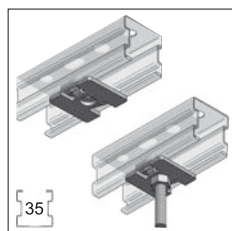


MEFA rail system

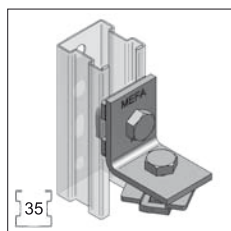
02



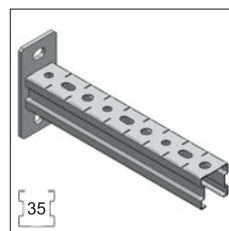
Profile rails STEX 35
Page 2/3



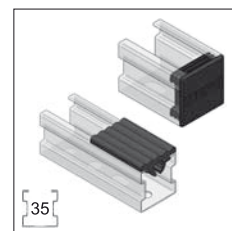
STEX 35 GP and GB
Page 2/4



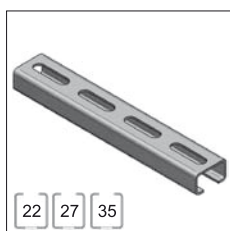
STEX 35-angle
Page 2/5



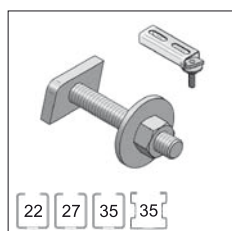
STEX 35-panels
Page 2/6



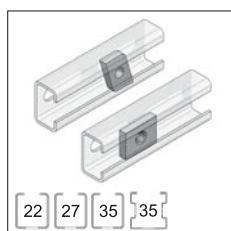
STEX 35 accessory
Page 2/8



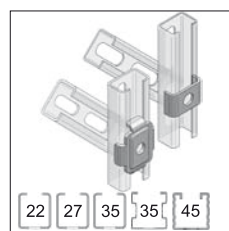
Profile rails 22 - 35
Page 2/9



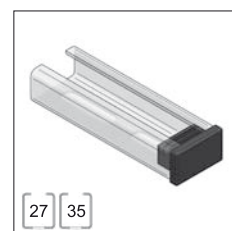
Hammerhead screw
Page 2/10



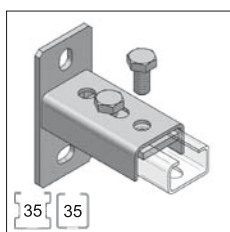
Threaded plate
Page 2/11



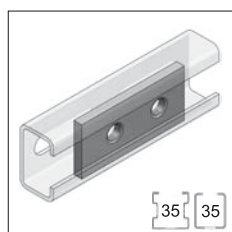
Profile holder
Page 2/12



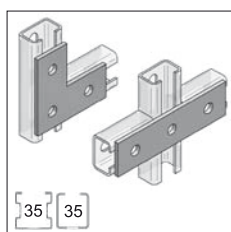
Protecting caps
Page 2/12



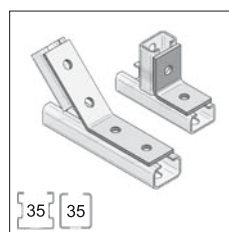
Holder 35
Page 2/14



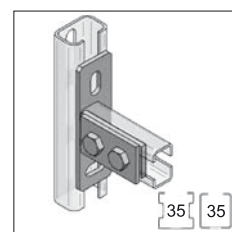
Threaded plate/ hole plate
Page 2/14



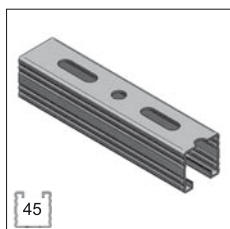
Flat connector
Page 2/15



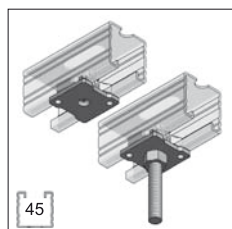
Angles
Page 2/15



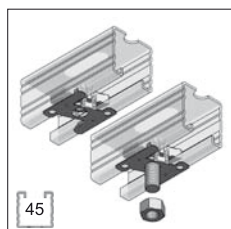
Connectors
Page 2/16



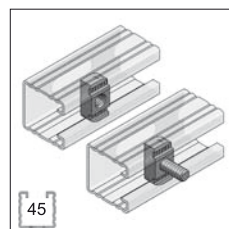
Profile rails 45
Page 2/20



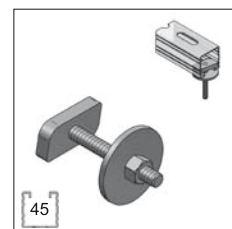
STEX 45 GP and GB
Page 2/22



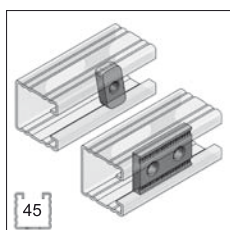
STEX 45 MP and MTB
Page 2/23



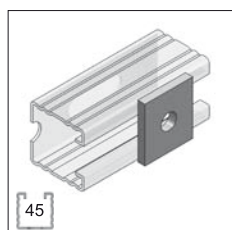
tooth plates / -bolts
Page 2/24



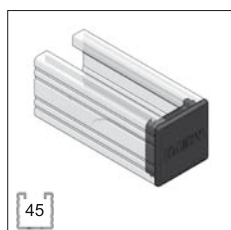
Hammerhead screws
Page 2/25



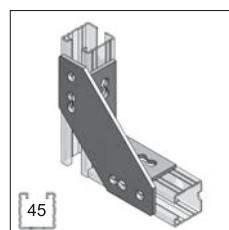
Threaded-/ tooth plates
Page 2/25



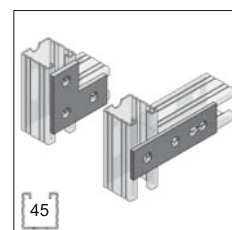
Perforated plates
Page 2/31



Protecting caps
Page 2/31

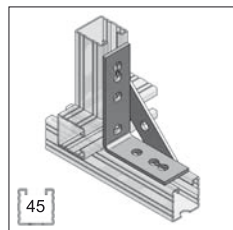


Universal knot
Page 2/32

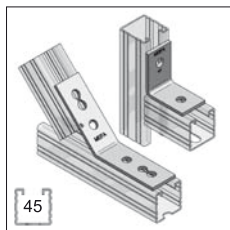


Flat connectors
Page 2/33

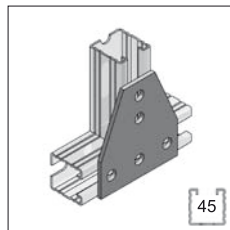
MEFA rail system



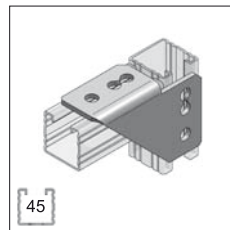
Knot triangles
Page 2/33



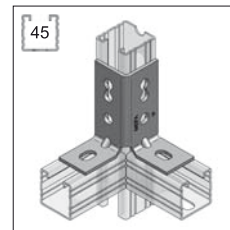
Angles
Page 2/34



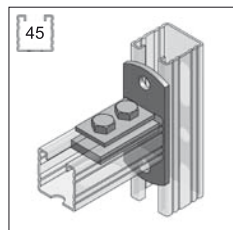
Lugs
Page 2/35



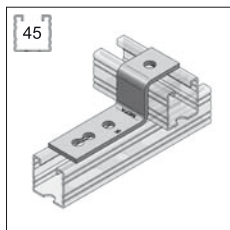
Corner angle
Page 2/35



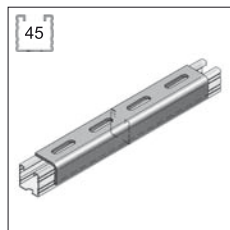
Angle connector
Page 2/36



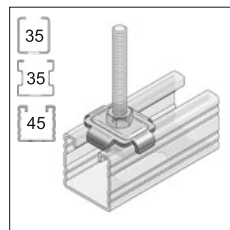
Connector
Page 2/36



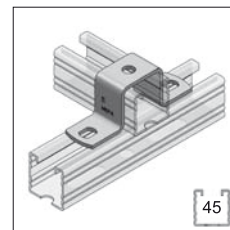
3-hole corresponding
angle
Page 2/37



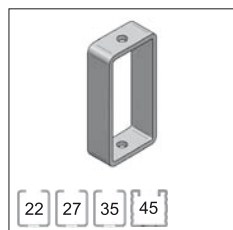
Connectors
Page 2/37



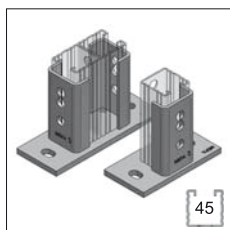
Profile holder
Page 2/38



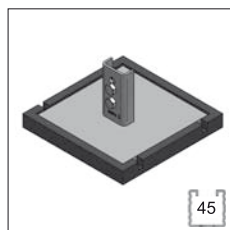
Head profile
Page 2/38



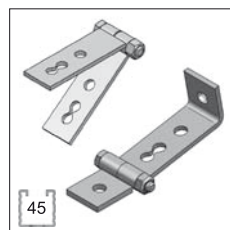
Suspending console
Page 2/39



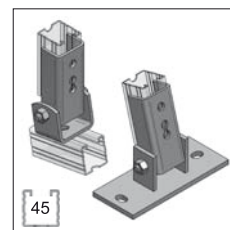
Holder
Page 2/39



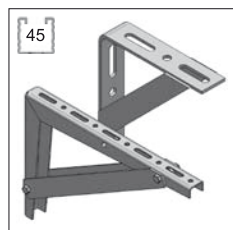
Rooftop holder
Page 2/40



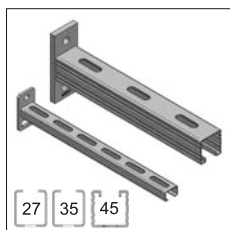
Joint connector
Page 2/41



Joint holder
Page 2/43



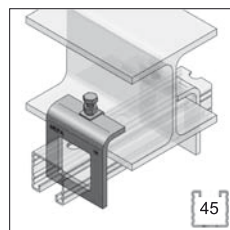
Consoles with braces
Page 2/45



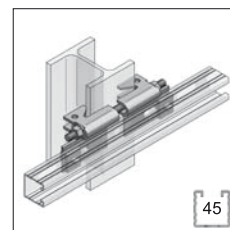
Consoles
Page 2/46



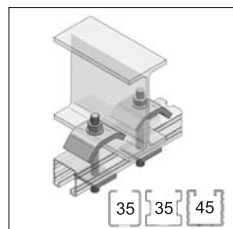
Brace 45° T-profile
Page 2/53



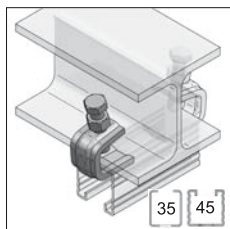
Clamping claws
Page 2/53



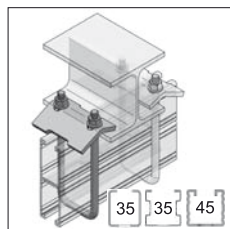
Girder connection vertical
Page 2/54



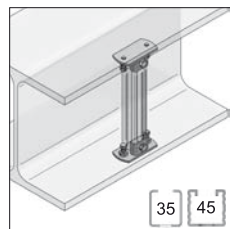
Clamping claws
Page 2/55



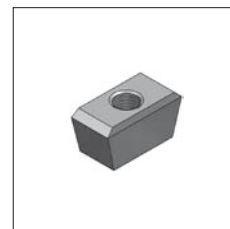
Rail clamps
Page 2/55



Clamping bows
Page 2/56



Girder clampings
Page 2/57



Wedge nut for ceiling
Page 2/57

Quick-fixing system STEX 35



Insert STEX



Turn STEX



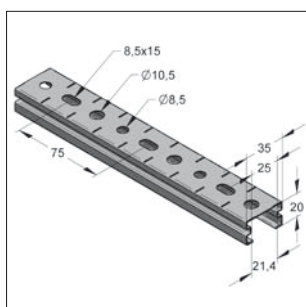
Position STEX



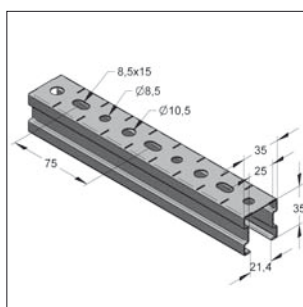
Counter STEX with nut

02

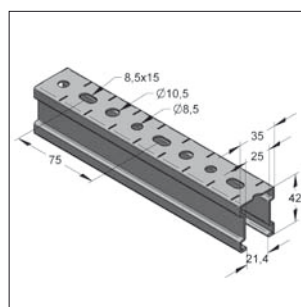
STEX 35 profile rail



STEX profile rail 35/20



STEX profile rail 35/35



STEX profile rail 35/42



Specification:

Profile rail type: C-profile
Connection system: System STEX 35, system 35
Hole pattern: round hole Ø 8,5 and 10,5 mm
long hole 8,5 x 15 mm
Center hole distance: 75 mm

Technical data:

Material: steel
Materialtyp: S 250 GD-Z150-N-A, DIN EN 10346
Surface: pre-galvanized

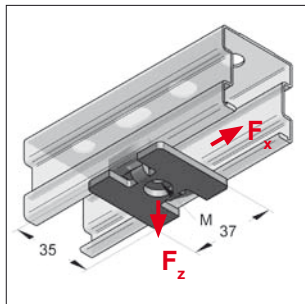
- Straight knurling against slipping of components
- Marking for fit-up aid and to cut rails

application loads see on page 2/13

Description	Length [m]	Width [mm]	Height [mm]	Weight [kg/m]	Packing [m]	Part-No.
35/20/0,8	2	35	20	0,64	336	1273520
35/20/0,8	3	35	20	0,64	504	1273523
35/35/1,0	2	35	35	1,03	252	1273538
35/35/1,0	3	35	35	1,03	378	1273539
35/42/1,5	2	35	42	1,63	80	12735422
35/42/1,5	6	35	42	1,63	240	12735426

Technical overview of profile rails see on page 2/58

STEX 35 threaded plate GP



STEX-threaded plate

Specification:

Profile rail type: STEX
Profile rail type: 35 mm

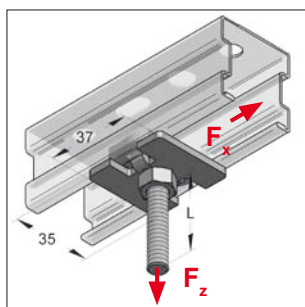
Technical data:

Material: steel
Material type: S235JR
Surface: galvanized

application loads see on page 2/13

Description	Weight	Packing	Part-No.
	[kg/pc.]	[pcs.]	
STEX 35 threaded plate M8	0,04	50	127201001
STEX 35 threaded plate M10	0,04	50	127201101

STEX 35 threaded bolt GB



STEX threaded bolt

Specification:

For profile rail type: STEX
Profile rail type: 35 mm

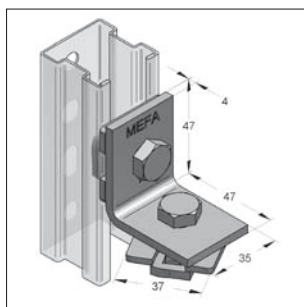
Technical data:

Material: steel
Material type: S235JR
Surface: galvanized

application loads see on page 2/13

Description	Length L [mm]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
STEX 35 threaded bolt M8/50	36	0,059	50	127805001
STEX 35 threaded bolt M8/70	56	0,065	50	127807001
STEX 35 threaded bolt M8/90	76	0,071	50	127809001
STEX 35 threaded bolt M8/110	96	0,078	25	127811001
STEX 35 threaded bolt M8/130	116	0,084	25	127813001
STEX 35 threaded bolt M10/50	34	0,072	50	127005001
STEX 35 threaded bolt M10/70	54	0,082	50	127007001
STEX 35 threaded bolt M10/90	74	0,093	50	127009001
STEX 35 threaded bolt M10/110	94	0,101	25	127011001
STEX 35 threaded bolt M10/130	114	0,110	25	127013001

■ STEX 35 universal angle



STEX 35 universal angle-set
Angle with two STEX threaded
plates (threaded plate turnable)

Specification:

For profile rail type: STEX
Profile rail type: 35 mm

Remark: suitable for all STEX-
profile-rails

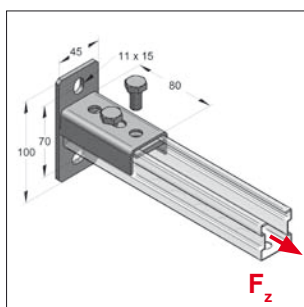
Technical data:

Material: steel
Material type: S235JR
Surface: galvanized

application loads see on page 2/13

Description	Weight [kg/pc.]	Packing [pcs.]	Part-No.
STEX 35 universal angle	0,21	25	127201801

■ Holder 35



Holder 35 vertical

Specification:

Profile rail type: C-Profile 35 and STEX 35
Scope of delivery: completely pre-assembled with
2-hole-threaded plate M10 and
hexagon screws M10

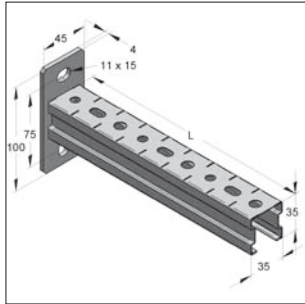
Technical data:

Material: steel
Material type: S235JR
Surface: galvanized

* Loads are based on component, not connection

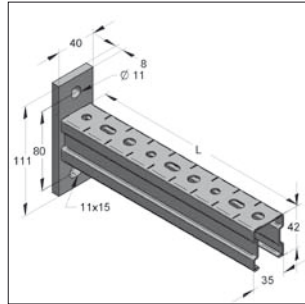
Description	Dimension base plate	tightening torque [Nm]	max. load * F_z [kN]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Holder 35 vertical	100 x 45 x 4,0 mm	25	2,0	0,64	25	080213402
Holder 35 horizontal	100 x 45 x 4,0 mm	25	2,0	0,64	25	080213502

STEX 35 console



STEX console 35/35

Profile opening on bottom side



STEX console 35/42

Profile opening on bottom side

Technical data: galvanized

Material: steel
Material type profile rail: S235JR
Material type plate: S235JR
Surface: galvanized
global safety coefficient γ : 1,35

Static values only apply to Stex console 35/42:

limitation torque M_G : 312,72 Nm
Reaction force F_{AX} : 3,91 kN
Reaction force F_{BX} : 3,91 kN
 M_G , F_{AX} , F_{BX} on
LF1: up to $L = 825,0$ mm
LF2: up to $L = 525,0$ mm
LF3: up to $L = 675,0$ mm

* max. load at elastic limit of $\sigma_{max} = 160$ N/mm² and max. bending of $f = L/150$

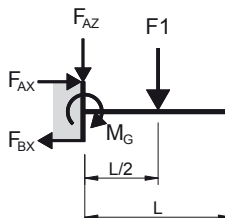
STEX console 35/35 - profile rails 35/35/1 - plate 100 x 45 x 4 mm

Description	Length [mm]	max. load *			Weight [kg/pc.]	Packing [pcs.]	Part-No.
		Loading cond. 1 F1 [kN]	Loading cond. 2 F2 [kN]	Loading cond. 3 q0 [kN/m]			
STEX 35 console	150	2,05	1,02	13,65	0,271	25	1274150
STEX 35 console	225	1,37	0,68	6,07	0,335	25	1274225
STEX 35 console	300	1,02	0,51	3,41	0,400	25	1274300
STEX 35 console	375	0,82	0,41	2,18	0,465	25	1274375
STEX 35 console	450	0,68	0,34	1,52	0,561	20	1274450
STEX 35 console	525	0,59	0,28	1,11	0,630	20	1274525

STEX console 35/42 - profile rails 35/42/1,5 - plate 111 x 40 x 8 mm

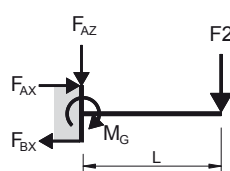
STEX 35 console	225	2,78	1,39	12,35	0,64	20	12760225
STEX 35 console	300	2,08	1,04	6,95	0,76	20	12760300
STEX 35 console	450	1,39	0,69	3,09	0,99	20	12760450
STEX 35 console	525	1,19	0,60	2,27	1,11	10	12760525
STEX 35 console	600	1,04	0,49	1,74	1,23	10	12760600

Loading condition 1



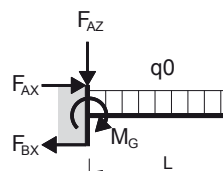
$$F_{AZ} = F_1 \quad M_G = \frac{F_1 \cdot L}{2}$$

Loading condition 2



$$F_{AZ} = F_2 \quad M_G = F_2 \cdot L$$

Loading condition 3

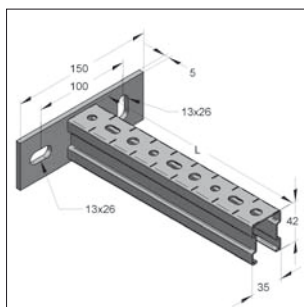


$$F_{AZ} = q_0 \cdot L \quad M_G = \frac{q_0 \cdot L^2}{2}$$

Notice:

all loads referring to static loads

■ STEX 35 console 35/42 plate horizontal



STEX console 35/42 horizontal
Profile opening on bottom side

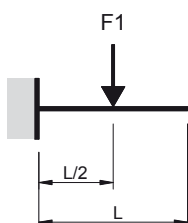
Technical data: galvanized

Material:	steel
Material type profile rail:	S235JR
Material type plate:	S235JR
Surface:	galvanized
global safety coefficient γ :	1,35

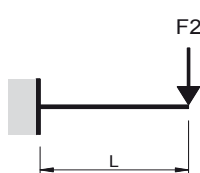
02

Description	Length [mm]	max. load *			Weight [kg/pc.]	Packing [pcs.]	Part-No.
		Loading cond. 1 F1 [kN]	Loading cond. 2 F2 [kN]	Loading cond. 3 q0 [kN/m]			
STEX 35 console 35/42 horizontal	300	1,46	0,73	4,8	0,77	25	127603001
STEX 35 console 35/42 horizontal	450	0,96	0,48	2,1	1,01	15	127604501

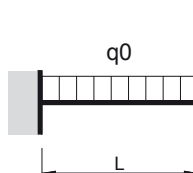
Loading condition 1



Loading condition 2



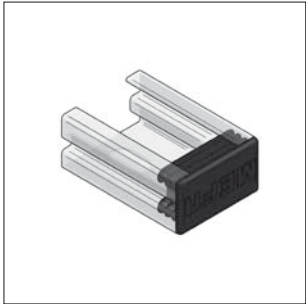
Loading condition 3



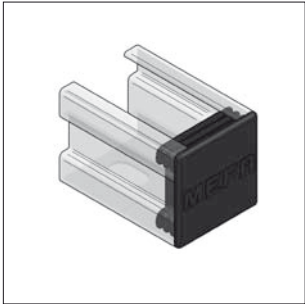
Notice:
all loads referring to static loads

02

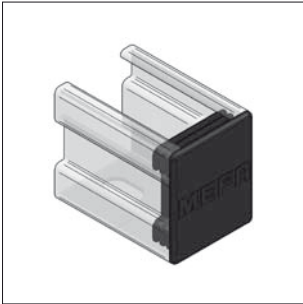
■ **STEX 35 protecting cap**



STEX protecting cap 35/20



STEX protecting cap 35/35

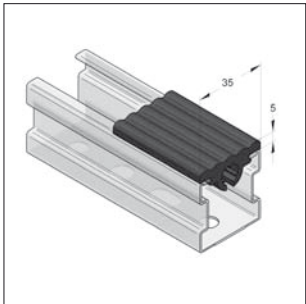


STEX protecting cap 35/42

Specification:		Technical data:	
Profile rail type:	STEX 35	Material:	plastic PE
Profile rail type:	35 mm	Material colour:	black

Description	Weight [kg/pc.]	Packing [pcs.]	Part-No.
STEX 35 protecting cap 35/20	0,003	50	1272017
STEX 35 protecting cap 35/35	0,004	50	1272016
STEX 35 protecting cap 35/42	0,006	50	1272024

■ **STEX 35 rail rubber**

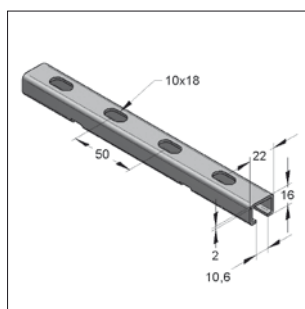


STEX 35 rail rubber

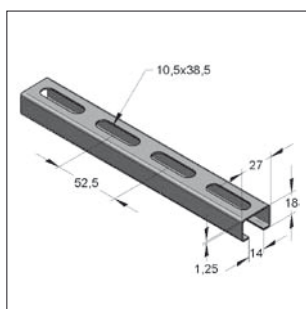
Specification:	Technical data:	
sound-, soil- and insulation resistance between rail and supporting element (e.g. ventilation duct) is guaranteed.	Material:	EPDM lining
Mounting profiles for rapid mounting.	Shore (DIN 53505)	45 shore
Suitable for STEX 35 profile rails and threaded rod M8 and M10	Material colour:	black
	Temperature-resistance:	- 35 °C up to + 100 °C

Description	Weight [kg/m]	Packing	Part-No.
STEX 35 rail rubber, roll	0,28	20 m	1272019
STEX 35 rail rubber, part 50 mm	0,28	50 pcs.	1272020

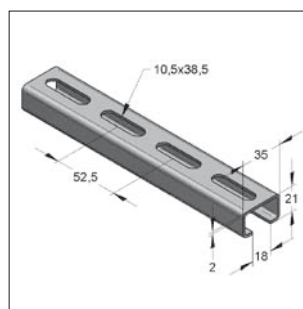
■ Profile rails, pre-galvanized, C-profile rail, perforated



Type 22/16



Type 27/18



Type 35/21



02

Specification:

Material: S250GD-Z275-N-A (EN 10346)
 Surface: pre-galvanized
 (sendzimir galvanized)

Type 22/16

Description	Corrosion protection	Weight [kg/m]	Length [m]	Packing [m]	Bulk pack [m]	Part-No.
22/16/2,0 fbv	pre-galvanized	0,78	2	20	640	0800013

Type 27/18

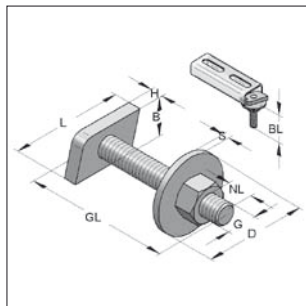
27/18/1,25 fbv	pre-galvanized	0,60	2	20	700	1240013
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Type 35/21

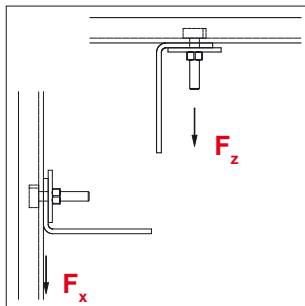
35/21/2,0 fbv	pre-galvanized	1,16	2	12	192	0800022
35/21/2,0 fbv	pre-galvanized	1,16	6	36	576	0800026

① technical overview of profile rails see on page 2/58
 profile rails in stainless steel V2A or V4A see chapter 13
 profile rails with coating on request

■ Hammer head screw



Hammer head screw



Loads

Specification:

Mounting method: for glide fast connections and shear hole haunch connections with MEFA profile rails

Application area: should preferably be used for pipe clamp mounting

Technical data:

Material: steel

Material type: S235JR

Surface: galvanized

application loads see on page 2/13

¹⁾ not suitable for thread M8/M10

²⁾ not suitable for thread M10/M12

For profile rails 22/16

Description	G x GL [mm]	L x B x H [mm]	S [mm]	D [mm]	Usable length NL [mm]	Construction length BL [mm]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Hammer head screw	M8x25 ¹⁾	17x17x5	2	25	9,5	18	0,03	100	0692320
Hammer head screw	M8x30	17x17x5	2	25	14,5	23	0,03	100	0692328
Hammer head screw	M8x40	17x17x5	2	25	24,5	33	0,03	100	0692330
Hammer head screw	M10x40	17x17x5	2	20	23,0	33	0,05	100	0693340

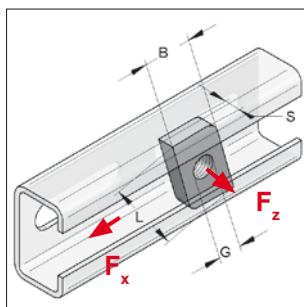
For profile rails 27/18

Hammer head screw	M8x20 ¹⁾	24x13x4	2	25	6,3	15	0,02	100	0695289
Hammer head screw	M8x30	24x13x4	2	25	16,3	25	0,03	100	0695300
Hammer head screw	M8x40	24x13x4	2	25	26,3	35	0,03	100	0695327

For profile rails 35/21, STEK 35/20, STEK 35/35, STEK 35/42

Hammer head screw	M8x30 ¹⁾	35x18x6	3	35	12,5	22	0,06	50	0697044
Hammer head screw	M8x40	35x18x6	3	35	22,5	32	0,06	50	0697051
Hammer head screw	M8x50	35x18x6	3	35	32,5	42	0,06	50	0697060
Hammer head screw	M8x70	35x18x6	3	35	52,5	62	0,07	50	0697075
Hammer head screw	M10x30 ²⁾	35x18x6	3	35	10,5	22	0,07	50	0697540
Hammer head screw	M10x40	35x18x6	3	35	21,0	32	0,07	50	0697560
Hammer head screw	M10x50	35x18x6	3	35	31,0	42	0,07	50	0697570
Hammer head screw	M10x70	35x18x6	3	35	51,0	62	0,09	50	0697590
Hammer head screw	M12x35	35x18x6	3	37	14,0	27	0,08	50	0698040
Hammer head screw	M12x50	35x18x6	3	37	29,0	42	0,09	50	0698050
Hammer head screw	M12x70	35x18x6	3	37	49,0	62	0,10	50	0698070

Threaded plate



Threaded plate

Specification:

Mounting method: for glide fast connections and shear hole haunch connections with MEFA profile rails in combination with hexagon screws, threaded bolts or rods (property class 4.6), washers and hexagon nuts

Application area: for direct mounting of pipe clamps or bearing support

Technical data:

Material: steel
Material type: S235JR
Surface: galvanized

application loads see on page 2/13

02

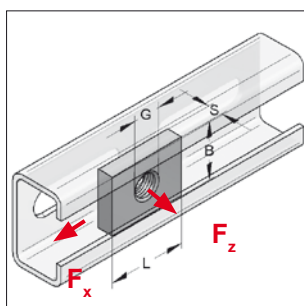
For profile rails 27/18

Description	Thread G	Dimension L x B x S [mm]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Threaded plate 28 x 15	M8	24 x 13 x 4	0,008	100	0750069

For profile rail 35/21, Stex 35/20, Stex 35/35, Stex 35/42

Threaded plate 38 x 17	M8	35 x 18 x 6	0,020	100	0750077
Threaded plate 38 x 17	M10	35 x 18 x 6	0,019	100	0750085
Threaded plate 38 x 17	M12	35 x 18 x 6	0,019	100	0750093

Threaded square plate



Threaded square plate

Specification:

Mounting method: for glide fast connections and shear hole haunch connections with MEFA profile rails in combination with hexagon screws, threaded pins or rods (property class 4.6), washers and hexagon nuts

Application area: for mounting of connecting parts and profile rails

Technical data:

Material: steel
Material type: S235JR
Surface: galvanized¹⁾

application loads see on page 2/13

¹⁾ Components for outdoor application also available with Zinc-Nickel-coating (corrosion-protection class C3 acc. to ISO 9223). Delivery time on demand!

For profile rail 22 mm

Description	Dimension L x B [mm]	S [mm]	Thread G	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Threaded square plate	17 x 17	5	M6	0,010	100	0740012
Threaded square plate	17 x 17	5	M8	0,009	100	0740020
Threaded square plate	17 x 17	5	M10	0,009	100	0740039

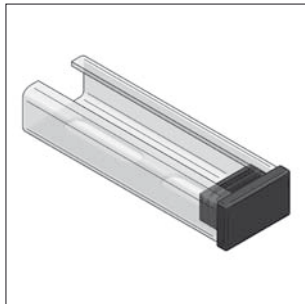
For profile rail 27, 35 mm (should not be used for STEX 35)

Threaded square plate	30 x 22	6	M8	0,030	100	0750808
Threaded square plate	30 x 22	6	M10	0,029	100	0750810

For profile rail 35 mm (should not be used for STEX 35)

Threaded square plate	35 x 30	6	M8	0,070	50	0816112
Threaded square plate	35 x 30	8	M10	0,069	50	0816120
Threaded square plate	35 x 30	8	M12	0,069	50	0816138
Threaded square plate	35 x 30	8	M16	0,068	50	0816146

■ Protecting cap



Protecting cap

Specification:

Profile rail type: C-Profil 27/18, 35/21
 Profile rail type: 27 mm, 35 mm

Technical data:

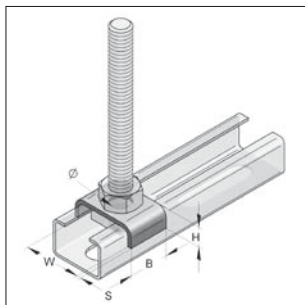
Material: plastic PE
 Material colour: black

Description For profile rail

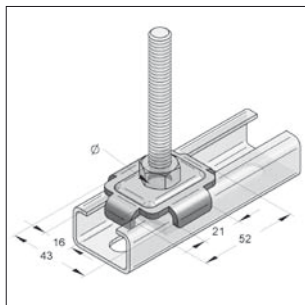
Protecting cap 27/18
Protecting cap 35/21

Weight [kg/pc.]	Packing [pcs.]	Part-No.
0,0043	50	0809032
0,0048	50	0809012

■ Profile holder



Profile holder



Profile holder combi

Specification:

Profile rail type: C-Profile 22, 27, 35, STEX 35
 C-Profile 45

Technical data:

Material: steel
 Material type: S235JR
 Surface: galvanized¹⁾

¹⁾ Components for outdoor application also available with Zinc-Nickel-coating (corrosion-protection class C3 acc. to ISO 9223). Delivery time on demand!

For profile rail 22

Description	W [mm]	B [mm]	Dimension hole-Ø [mm]	H [mm]	S [mm]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Profile holder 22	23,0	20	10,5	10	2	0,010	100	0809502

For profile rail 27

Profile holder 27	28,0	20	10,5	8	2	0,010	100	0809504
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For profile rail 35, 45 mm and STEX 35

Profile holder combi 11	-	-	11,0	-	-	0,046	100	08095035
Profile holder combi 13	-	-	13,0	-	-	0,043	100	08162945

Admissible loading capacity

global safety coefficient $\gamma = 2$

02

Profile rail pre-galvanized	STEX threaded bold, threaded plate			
				
	F _z [kN]	F _x [kN]	M10 4.6 [Nm]	M8 4.6 [Nm]
STEX 35/20/0,8	1,5	0,4	12	10
STEX 35/35/1,0		0,5		
STEX 35/42/1,5	2.5			

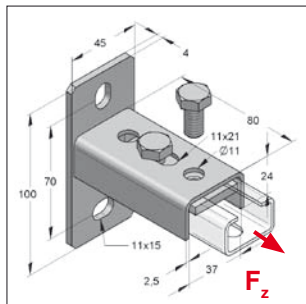
Profile rail pre-galvanized	Threaded plate 28 x 15 (24 x 13 x 4)		
			
	F_z [kN]	F_x [kN]	M8 4.6 [Nm]
27/18/1,25	1,4	0,5	10

Profile rail pre-galvanized	Threaded plate 38 x 17 (35 x 18 x 6)				
					
	F_z [kN]	F_x [kN]	M12 4.6 [Nm]	M10 4.6 [Nm]	M8 4.6 [Nm]
35/21/2,0	1,8	0,5	30	25	20
STEX 35/20/0,8					
STEX 35/35/1,0					
STEX 35/42/1,5					

Profile rail pre-galvanized	Threaded square plate 17 x 17 (17 x 17 x 5)				
					
	F_z [kN]	F_x [kN]	M12 4.6 [Nm]	M10 4.6 [Nm]	M8 4.6 [Nm]
22/16/2,0	4,5	0,5	20	15	10

Profile rail pre-galvanized	Threaded square plate 30 x 22 (30 x 22 x 6)				
					
	F_z [kN]	F_x [kN]	M12 4.6 [Nm]	M10 4.6 [Nm]	M8 4.6 [Nm]
27/18/1,25	2,7	0,5	30	25	20
35/21/2,0	4,3				

Holder 35



Holder 35 vertical

Specification:

Profile rail type: 35 and Stex 35/20, 35/35, 35/42
Scope of delivery: completely pre-assembled with 2-hole-threaded plate M10 and hexagon screws M10

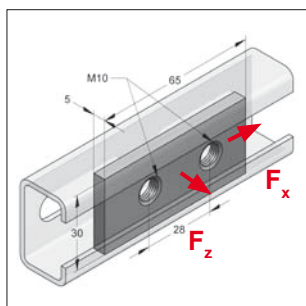
Technical data:

Material: steel
Material type: S235JR
Surface: galvanized

* Loads are based on component, not connection

Description	Dimension base plate	tightening torque [Nm]	max. load * F_z [kN]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Holder 35 vertical	100 x 45 x 4,0 mm	25	2,0	0,64	25	080213402
Holder 35 horizontal	100 x 45 x 4,0 mm	25	2,0	0,64	25	080213502

2-hole threaded plate



2-hole threaded plate 35/4

Specification:

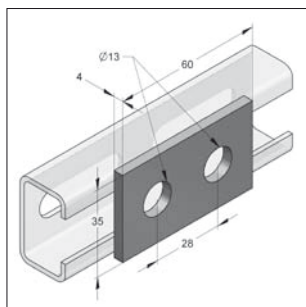
Profile rail type: 35/21 and STEX 35
Application area: for mounting of connecting parts and profile rails

Technical data:

Material: steel
Material type: S235JR
Surface: galvanized

Description	Dimension L x W x S [mm]	Thread	tightening torque [Nm]	max. load F_x [kN]	max. load F_z [kN]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
2-hole threaded plate	65 x 30 x 5	M10	25	1,1	5,0	0,073	50	0816092

2-hole plate 35/4



2-hole plate 35/4

Specification:

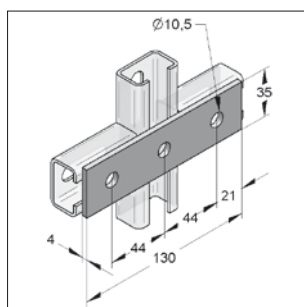
Profile rail type: 35 and Stex 35/20, 35/35, 35/42
Application area: for connections between profile rails and components

Technical data:

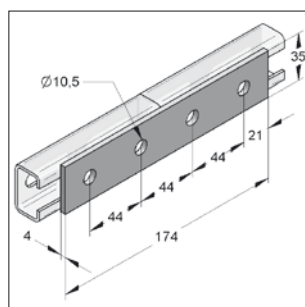
Material: steel
Material type: S235JR
Surface: galvanized

Description	Dimension L x B x S	Weight [kg/pc.]	Packing [pcs.]	Part-No.
2-hole plate 35/4	60 x 35 x 4	0,056	25	0816086

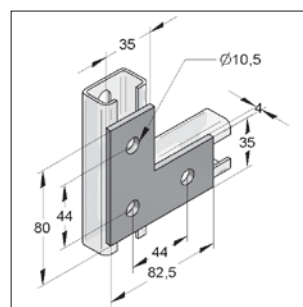
Flat connector 35/4



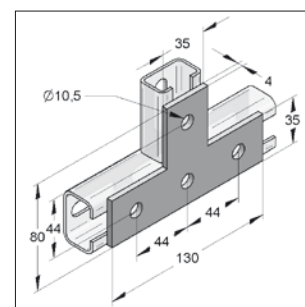
3-hole flat connector 35/4



4-hole flat connector 35/4



Flat connector 35/4 L-shape



Flat connector 35/4 T-shape

Specification:

Profile rail type: 35 and Stex 35/20, 35/35, 35/42

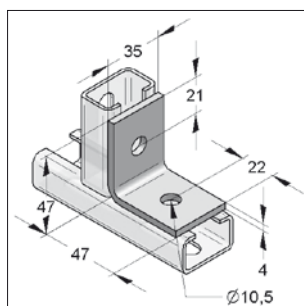
Technical data:

Material: steel
Material type: S235JR
Surface: galvanized

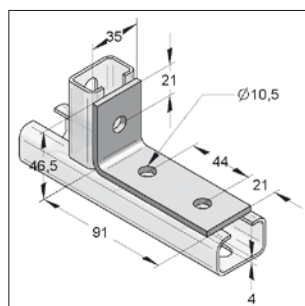
Remark: admissible loads are depending on component.

Description	Dimension L x B x S [mm]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
3-hole flat connector 35/4	130 x 35 x 4	0,131	25	0814457
4-hole flat connector 35/4	174 x 35 x 4	0,176	25	0814465
Flat connector 35/4 L-shape	82,5 x 80 x 4	0,131	25	0814430
Flat connector 35/4 T-shape	130 x 80 x 4	0,179	25	0814449

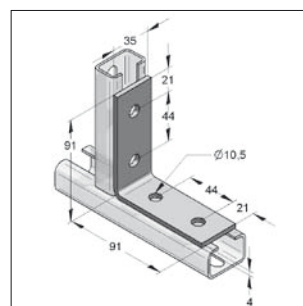
Angle 35/4



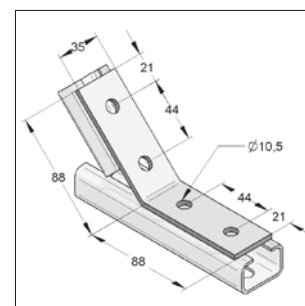
2-hole angle 35/4



3-hole angle 35/4 K



4-hole angle 35/4 90°



4-hole angle 35/4 135°

Specification:

Profile rail type: 35 and Stex 35/20, 35/35, 35/42

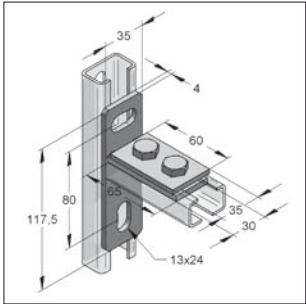
Technical data:

Material: steel
Material type: S235JR
Surface: galvanized

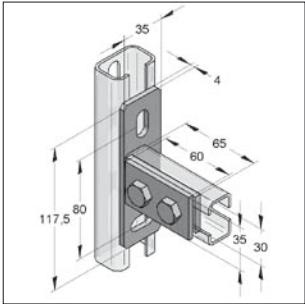
Remark: admissible loads are depending on component.

Description	Dimension L x B x S [mm]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
2-hole angle 35/4	47 x 47	0,092	100	0814510
3-hole angle 35/4 K	91 x 47	0,138	50	0814520
4-hole angle 35/4 90°	91 x 91	0,183	50	0814530
4-hole angle 35/4 135°	88 x 88	0,183	50	0814540

Connector 35



Connector 35 horizontal



Connector 35 vertical

Specification:	
Profile rail type:	35 and Stex 35/20, 35/35, 35/42
Scope of supply:	2-hole plate 13 mm hexagon screw M10
Remark:	- not applicable as ceiling support or vertical use (hanging) - no use as console connection

Technical data:	
Material:	steel
Material type:	S235JR
Surface:	galvanized

Description	Screws	Dimension L x B x S [mm]	Weight	Packing	Part-No.
			[kg/pc.]	[pcs.]	
Connector 35 horizontal	M10	117,5 x 65 x 4	0,25	20	0816453
Connector 35 vertical	M10	117,5 x 65 x 4	0,25	20	0816558

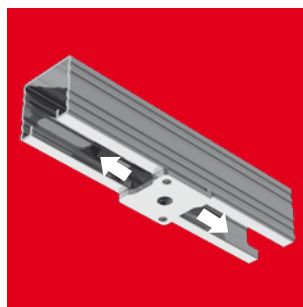
Quick-fixing system Stex 45



Insert Stex in



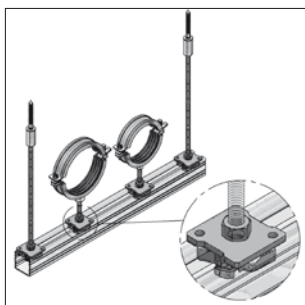
Turn Stex



Position Stex



Counter Stex with nut

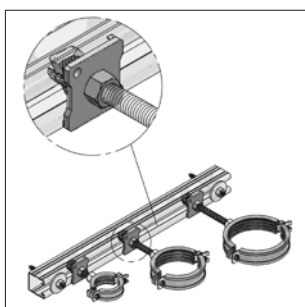


■ Stex 45 threaded plate GP

optional with connection M8, M10 or M12

Your advantages:

- tooth and counter plate can be replaced by one-part STEX 45 threaded plate
- insert STEX 45 threaded plate into profile rail, turn it about 45°, plug threaded pin and counter nut in and screw pipe clamp onto profile rail
- tooth plate guarantees a form-locking connection with profile rail
- after turning, STEX 45 threaded plate automatically locks in profile rail
- after turning, STEX 45 threaded plate can be positioned in profile rail by moving
- threaded pins or threaded rods can be turned in easily

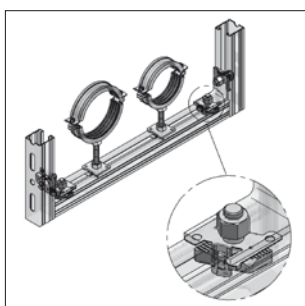


■ Stex 45 threaded bolt GB

optional with threaded pin M8, M10 or M12

Your advantages:

- tooth and counter plate, as well as threaded pin can be replaced by one-part STEX 45 threaded bolt
- insert STEX 45 threaded bolt into profile rail, turn it about 45°, plug threaded pin and counter nut in and screw pipe clamp onto profile rail
- length- and height differences up to 30 mm can be balanced without any tools
- due to different bolt lengths, differences up to 130 mm can be realised

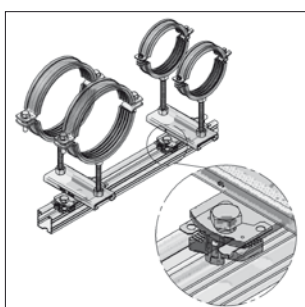


■ Stex 45 mounting bolt MTB

for mounting the rail constructions

Your advantages:

- insert mounting bolt into profile rail, turn it about 45°, position component and counter nut
- circumstantial insertion of tooth bolts and tooth plates is not necessary
- profile rail keeps components on its own
- simplifies mounting of connection parts in rail constructions



■ Stex 45 mounting plate MP

for mounting the rail constructions or add-on-part

Your advantages:

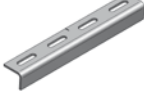
- insert mounting bolt into profile rail, turn it about 45°, position component and screw the bolt
- circumstantial insertion of tooth bolt and tooth plates is not necessary
- profile rail keeps on its own, no holder necessary
- simplifies mounting of add-on-parts like sliding elements or connection parts in rail constructions

System components

Profile type

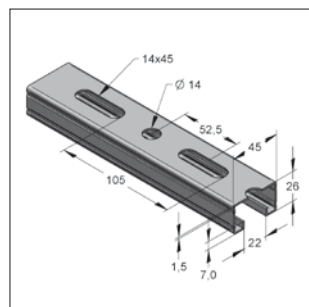
Recommended connecting parts

Identification - catalogue page	Part-No.	45/45	45/60	45/75	45/90	45/120	45/150	Mounting plate M12	Mounting bolt	Tooth plate M12	Threaded square plate M12	2-hole tooth plate M12
												
								1280012	1280001	0818103	0816138	0818110
 2-hole angle 40/5 Page 2/34	081402400	■	■	■	■	■	■	○	●	○	□▲○	
								Quantity: 2 Accessory: 2 hex. screws 8.8 M12x25	Quantity: 2 scope of delivery with nut	Quantity: 2 Accessory: 2 hex. screws 8.8 M12x25	Quantity: 2 Accessory: 2 hex. screws 8.8 M12x25	
 3-hole angle 40/5 L 08140300 K 08140400 Page 2/34		■	■	■	■	■	■	○	●	○	□▲○	▲○
								Quantity: 3 Accessory: 3 hex. screws 8.8 M12x25	Quantity: 3 scope of delivery with nut	Quantity: 3 Accessory: 3 hex. screws 8.8 M12x25	Quantity: 3 Accessory: 3 hex. screws 8.8 M12x25	Quantity: 1 1 Mounting bolt 3 hex. screws M12x25
 4-hole angle 40/5 45° 08141000 90° 08140500 135° 08140600 Page 2/34		■	■	■	■	■	■	○	●	○	□▲○	○
								Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 4 scope of delivery with nut	Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 2 Accessory: 4 hex. screws 8.8 M12x25
 4-hole knot triangle Page 2/33	08140700	■	■	■	■	■	■	○	●	○	□▲○	○
								Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 4 scope of delivery with nut	Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 2 Accessory: 4 hex. screws 8.8 M12x25
 5-hole knot triangle Page 2/33	08141700	■	■	■	■	■	■	○	●	○	□▲○	○
								Quantity: 5 Accessory: 5 hex. screws 8.8 M12x25	Quantity: 5 scope of delivery with nut	Quantity: 5 Accessory: 5 hex. screws 8.8 M12x25	Quantity: 5 Accessory: 5 hex. screws 8.8 M12x25	Quantity: 2+ 1 Mounting bolt Accessory: 5 hex. screws M12x25
 3-hole flat connector Page 2/33	0814331	■	■	■	■	■	■	○	●	○	▲○	
								Quantity: 3 Accessory: 3 hex. screws 8.8 M12x25	Quantity: 3 scope of delivery with nut	Quantity: 3 Accessory: 3 hex. screws 8.8 M12x2	Quantity: 3 Accessory: 3 hex. screws 8.8 M12x25	
 4-hole flat connector Page 2/33	0814349	■	■	■	■	■	■	○	●	○	▲○	
								Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 4 scope of delivery with nut	Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	
 Flat connector 40/6 L-shape Page 2/33	0814307	■	■	■	■	■	■	○	●	○	▲○	
								Quantity: 3 Accessory: 3 hex. screws 8.8 M12x25	Quantity: 3 scope of delivery with nut	Quantity: 3 Accessory: 3 hex. screws 8.8 M12x25	Quantity: 3 Accessory: 3 hex. screws 8.8 M12x25	
 Flat connector 40/6 T-shape Page 2/33	0814315	■	■	■	■	■	■	○	●	○	▲○	
								Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 4 scope of delivery with nut	Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	
 Universal knot K Page 2/32	08141601	■	■	■	■	■	■	○	●	○	○	
								Quantity: 2 Accessory: 2 6 hex. screws	Quantity: 2 scope of delivery with nut *	Quantity: 2 Accessory: 2 6 hex. screws 8.8	Quantity: 2 Accessory: 2 6 hex. screws 8.8 M12x25*	
 4-hole corner angle left 08147100 right 08147200 Page 2/35		■	■	■	■	■	■	○	●	○	▲○	▲○
								Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 4 scope of delivery with nut	Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 2 Accessory: 4 hex. screws 8.8 M12x25
 Cross strap Page 2/35	0816582	■	■	■	■	■	■	□○	□○	●	▲○□	▲●
								Quantity: 5 Accessory: 5 hex. screws 8.8 M12x25	Quantity: 5 scope of delivery with nut	Quantity: 6 Accessory: 6 hex. screws 8.8 M12x25	Quantity: 5 Accessory: 5 hex. screws 8.8 M12x25	Quantity: 2+ 2 Mounting bolt + 6 hex. screws M12x25

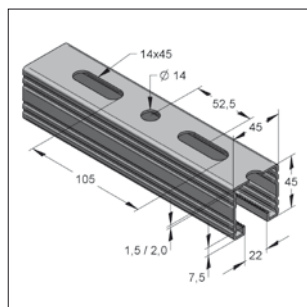
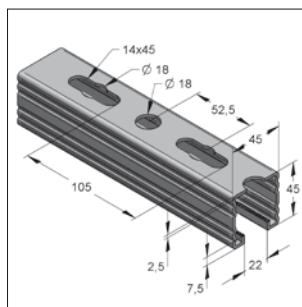
System components		Profile type						Recommended connecting parts				
		45/45	45/60	45/75	45/90	45/120	45/150	Mounting plate M12	Mounting bolt	Tooth plate M12	Threaded square plate M12	2-hole tooth plate M12
Identification - catalogue page		Part-No.										
	T-lug not angled	■	■	■	■	■	■	□ ○	□ ○	●	□ ▲ ○	▲ ●
	90° angled	■	■	■	■	■	■	Quantity: 3 Accessory: 3 hex. screws 8.8 M12x25	Quantity: 3 scope of delivery with nut	Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 1 2 threaded plate 4 hex. screws M12x25
		■	■	■	■	■	■	○	●	○	▲ ○	▲ ○
4-hole corner plate		■	■	■	■	■	■	Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 4 scope of delivery with nut	Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 2 4 hex. screws M12x25
	Angle connector	■	■	■	■	■	■	○	●	○	▲ ○	▲ ○
	Angle connector 90°	■	■	■	■	■	■	Quantity: 2 Accessory: 2 hex. screws M12x25	Quantity: 2 scope of delivery with nut	Quantity: 2 Accessory: 2 hex. screws M12x25	Quantity: 2 Accessory: 2 hex. screws M12x25	Quantity: 1 Accessory: 2 hex. screws M12x25
	Angle connector 180°	■	■	■	■	■	■	○	●	○	▲ ○	▲ ○
		■	■	■	■	■	■	○	●	○	▲ ○	▲ ○
Head profile 45		■	■	■	■	■	■	Quantity: 3 Accessory: 3 hex. screws 8.8 M12x25	Quantity: 3 scope of delivery with nut	Quantity: 3 Accessory: 3 hex. screws 8.8 M12x25		
60		■	■	■	■	■	■	○	●	○	▲ ○	▲ ○
75		■	■	■	■	■	■	○	●	○	▲ ○	▲ ○
90		■	■	■	■	■	■	○	●	○	▲ ○	▲ ○
120		■	■	■	■	■	■	○	●	○	▲ ○	▲ ○
		■	■	■	■	■	■	○	●	○	▲ ○	▲ ○
3-hole corresp. angle 45		■	■	■	■	■	■	Quantity: 3 Accessory: 3 hex. screws 8.8 M12x25	Quantity: 3 scope of delivery with nut	Quantity: 3 Accessory: 3 hex. screws 8.8 M12x25	Quantity: 3 Accessory: 3 hex. screws 8.8 M12x25	Quantity: 1 1 Mounting bolt 3 hex. screws M12x25
		■	■	■	■	■	■	○	●	○	▲ ○	▲ ○
13 mm - hole Ø		■	■	■	■	■	■	Quantity: 1 Accessory: 1 hex. screw 8.8 M12x30 + H		Quantity: 1 Accessory: 1 hex. screw M12x30 + H	Quantity: 1 Accessory: 1 hex. screw M12/16x30+H	
17 mm - hole Ø		■	■	■	■	■	■	○	●	○	▲ ○	▲ ○
		■	■	■	■	■	■	○	●	○	▲ ○	▲ ○
Connector 45		■	■	■	■	■	■	Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 4 scope of delivery with nut	Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 2 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 2 Accessory: 4 hex. screws 8.8 M12x25
	Holder	■	■	■	■	■	■	○	●	○	▲ ○	▲ ○
	45/26-52 vertical	■	■	■	■	■	■	Quantity: 2 Accessory: 2 hex. screws 8.8 M12x25	Quantity: 2 scope of delivery with nut	Quantity: 2 Accessory: 2 hex. screws 8.8 M12x25	Quantity: 2 Accessory: 2 hex. screws 8.8 M12x25	Quantity: 1 Accessory: 2 hex. screws 8.8 M12x25
	45/26-75 horizontal	■	■	■	■	■	■	○	●	○	▲ ○	▲ ○
		■	■	■	■	■	■	○	●	○	▲ ○	▲ ○
45/60-75 vertical		■	■	■	■	■	■	Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 4 scope of delivery with nut	Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 4 Accessory: 4 hex. screws 8.8 M12x25	Quantity: 2 Accessory: 4 hex. screws 8.8 M12x25
		■	■	■	■	■	■	○	●	○	▲ ○	▲ ○
Joint holder vertical		■	■	■	■	■	■	Quantity: 3 Accessory: 3 hex. screws 8.8 M12x25	Quantity: 3 scope of delivery with nut	Quantity: 3 Accessory: 3 hex. screws 8.8 M12x25	Quantity: 3 Accessory: 3 hex. screws 8.8 M12x25	Quantity: 1+ 1 Mounting bolt plate Acc.: 3 hex. screws M12x25
		■	■	■	■	■	■	○	●	○	▲ ○	▲ ○
Joint holder with base plate vertical		■	■	■	■	■	■	Quantity: 2 Accessory: 2 hex. screws 8.8 M12x25	Quantity: 2 scope of delivery with nut	Quantity: 2 Accessory: 2 hex. screws 8.8 M12x25	Quantity: 2 Accessory: 2 hex. screws 8.8 M12x25	Quantity: 1 Accessory: 2 hex. screws 8.8 M12x25
		■	■	■	■	■	■	○	●	○	▲ ○	▲ ○
Connector		■	■	■	■	■	■	Quantity: 2 Accessory: 2 hex. screws 8.8 M12x25	Quantity: 2 scope of delivery with nut	Quantity: 2 Accessory: 2 hex. screws 8.8 M12x25	Quantity: 2 Accessory: 2 hex. screws 8.8 M12x25	Quantity: 1 Accessory: 2 hex. screws 8.8 M12x25
Joint holder		■	■	■	■	■	■	○	●	○	▲ ○	▲ ○
Joint connector		■	■	■	■	■	■	○	●	○	▲ ○	▲ ○

■ standard □ conditional ● optimal ○ alternative ▲ suitable for bolting in profile

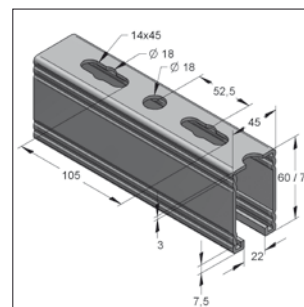
Profile rail 45, galvanized, C-profile rail, perforated, toothed



Type 45/26/1,5


Type 45/45/1,5
and Type 45/45/2,0


Type 45/45/2,5


Type 45/60/3,0
and Type 45/75/3,0

Specification:

Profile rail type:

C-profile rail, perforated, toothed

Mounting method:

form-locking connections and
shear hole haunch connections

Remark:

double rails are perforated and welded

Technical data:

Material: steel

Material type: S250GD-Z275-N-A

Surface: pre-galvanized

Material type: S235JRG2

Surface: hot-dip galvanized


¹⁾ variations up to 1 mm at hot-dip galvanized elements possible

²⁾ not certified acc. RAL

³⁾ Load calculation acc. DIN EN 1993-1-2 (EC3)

Type 45/26

Identification	Surface	Weight [kg/m]	Length [m]	Bulk pack [m]	Part-No.
45/26/1,5 fbv	pre-galv.	1,34	2	120	08202622
45/26/1,5 fbv	pre-galv.	1,34	6	360	08202662

Type 45/45

45/45/1,5 fbv	pre-galv.	1,89	2	80	082045215
45/45/1,5 fbv	pre-galv.	1,89	6	240	082045615
45/45/2,0 fbv ³⁾	pre-galv.	2,45	2	80	082045220
45/45/2,0 fbv ³⁾	pre-galv.	2,45	6	240	082045620
45/45/2,5 fbv ³⁾	pre-galv.	2,96	3	120	0820453251
45/45/2,5 fbv ³⁾	pre-galv.	2,96	6	240	0820456251
45/45/2,5 fsv ^{1) 3)}	hot-dip galv.	3,21	3	120	0820453252
45/45/2,5 fsv ^{1) 3)}	hot-dip galv.	3,21	6	240	0820456252

Type 45/60

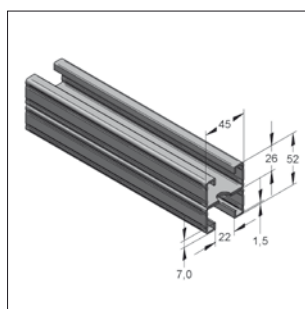
45/60/3,0 fbv ³⁾	pre-galv.	4,06	6	180	0810762
45/60/3,0 fsv ^{1) 3)}	hot-dip galv.	4,35	6	180	0810770

Type 45/75

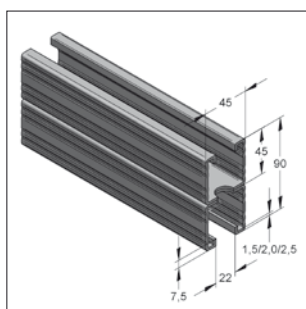
45/75/3,0 fbv ³⁾	pre-galv.	4,82	6	180	08207562
45/75/3,0 fsv ^{1) 2) 3)}	hot-dip galv.	5,15	6	180	08207561

i technical overview of profile rails see on page 2/58
 profile rails made of stainless steel V2A or V4A see in chapter 13
 profile rails with various coatings on request

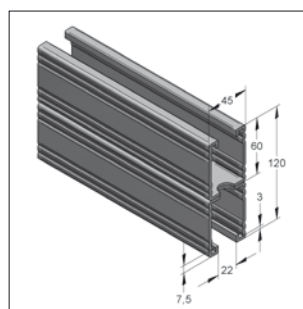
Profile rail 45, galvanized, C-profile rail, perforated, toothed



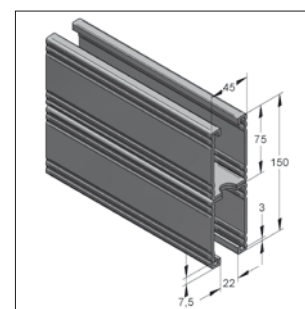
Type 45/52



Type 45/90



Type 45/120



Type 45/150

02

Specification:

Profile rail type:
Mounting method:

C-profile rail, perforated, toothed
form-locking connections and
shear hole haunch connections

Remark:

double rails are perforated and welded

Technical data:

Material: steel
Material type: S250GD-Z275-N-A
Surface: pre-galvanized
Material type: S235JRG2
Surface: hot-dip galvanized



¹⁾ variations up to 1 mm at hot-dip galvanized elements possible

³⁾ Load calculation acc. DIN EN 1993-1-2 (EC3)

²⁾ not certified acc. RAL

Type 45/52

Identification	Surface	Weight [kg/m]	Length [m]	Bulk pack [m]	Part-No.
45/52/1,5 D fbv ³⁾	pre-galv	2,69	6	180	08215262

Type 45/90

45/90/1,5 D fbv ³⁾	pre-galv	3,78	6	120	0821901615
45/90/2,0 D fbv ³⁾	pre-galv	4,90	6	120	0821901620
45/90/2,5 D fbv ³⁾	pre-galv	5,92	6	120	0821901625
45/90/2,5 D fsv ^{1) 3)}	hot-dip galv	6,35	6	120	0821902625

Type 45/120

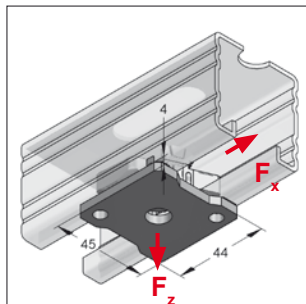
45/120/3,0 D fbv ³⁾	pre-galv	8,12	6	96	0810825
45/120/3,0 D fsv ^{1) 3)}	hot-dip galv	8,63	6	96	0810833

Type 45/150

45/150/3,0 D fbv ³⁾	pre-galv	9,64	6	96	08225062
45/150/3,0 D fsv ^{1) 2) 3)}	hot-dip galv	10,24	6	96	08225061

Technical overview of profile rails see on page 2/58

STEX 45 threaded plate GP



Stex 45 threaded plate GP

Specification:

Profile rail type: rail system 45, toothed
 Mounting method: form-locking connections and shear hole haunch connections
 Applications area: pipe clamp fixation

Technical data:

Material: steel
 Material type: S235JR
 Surface: galvanized

application loads see on page 2/29

* not certified acc. to RAL

Identification

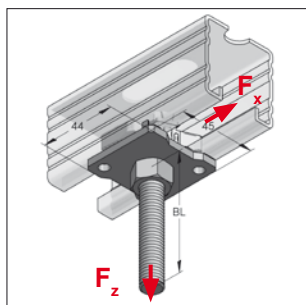
Stex 45 threaded plate GP M8*

Stex 45 threaded plate GP M10

Stex 45 threaded plate GP M12

Weight [kg/pc.]	Packing [pcs.]	Part-No.
0,115	30	1280508
0,113	30	1280510
0,109	30	1280512

STEX 45 threaded bolt GB



Stex 45 threaded bolt GB

Specification:

Profile rail type: rail system 45, toothed
 Mounting method: form-locking connections and shear hole haunch connections
 Applications area: pipe clamp fixation

Technical data:

Material: steel
 Material type: S235JR
 Surface: galvanized
 Threaded bolt: property class 4.6

application loads see on page 2/29

Identification

Construction length
 BL
 [mm]

Weight [kg/pc.]	Packing [pcs.]	Part-No.
0,132	30	1281050
0,138	20	1281070
0,144	20	1281090
0,150	20	1281110
0,156	20	1281130
0,144	30	1282050
0,153	20	1282070
0,163	20	1282090
0,173	20	1282110
0,184	20	1282130
0,156	30	1283050
0,169	20	1283070
0,174	20	1283090
0,199	20	1283110
0,214	20	1283130

Stex 45 threaded bolt GB M8/50

Stex 45 threaded bolt GB M8/70

Stex 45 threaded bolt GB M8/90

Stex 45 threaded bolt GB M8/110

Stex 45 threaded bolt GB M8/130

Stex 45 threaded bolt GB M10/50

Stex 45 threaded bolt GB M10/70

Stex 45 threaded bolt GB M10/90

Stex 45 threaded bolt GB M10/110

Stex 45 threaded bolt GB M10/130

Stex 45 threaded bolt GB M12/50

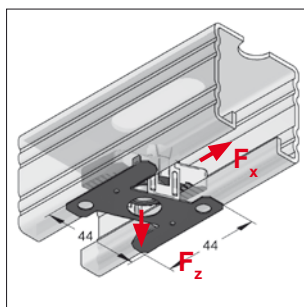
Stex 45 threaded bolt GB M12/70

Stex 45 threaded bolt GB M12/90

Stex 45 threaded bolt GB M12/110

Stex 45 threaded bolt GB M12/130

■ STEX 45 mounting plate MP



Stex 45 mounting plate MP

**Specification:**

Profile rail type: rail system 45, toothed
 Mounting method: form-lock connections and shear hole haunch connections
 Applications area: connecting parts
 Required accessory: hexagon screw FK 8.8

Technical data:

Material: steel
 Material type: S235JR
 Surface: galvanized

application loads see on page 2/27

* not certified acc. to RAL

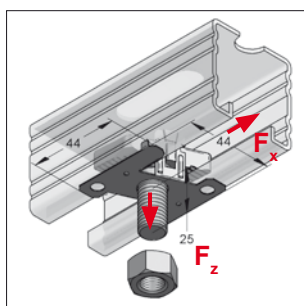
02

Identification

Stex 45 mounting plate MP M6*
 Stex 45 mounting plate MP M8*
 Stex 45 mounting plate MP M10
 Stex 45 mounting plate MP M12

Weight [kg/pc.]	Packing [pcs.]	Part-No.
0,062	30	1280006
0,059	30	1280008
0,056	30	1280010
0,053	30	1280012

■ STEX 45 mounting bolt MTB

Stex 45 mounting bolt MTB
incl. nut M12**Specification:**

Profile rail type: rail system 45, toothed
 Mounting method: form-lock connections and shear hole haunch connections
 Applications area: connecting parts

Technical data:

Material: steel
 Material type: S235JR
 Surface: galvanized
 Threaded bolt: property class 8.8

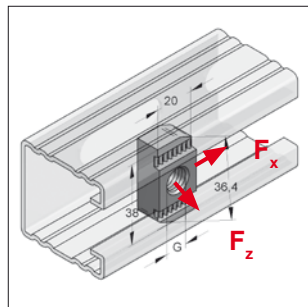
application loads see on page 2/27

Identification

Stex 45 mounting bolt MTB M12x40

Weight [kg/pc.]	Packing [pcs.]	Part-No.
0,106	30	1280001

■ Tooth plate S



Tooth plate S

**Specification:**

Profile rail type: rail system 45, toothed
 Mounting method: form-lock connections and shear hole haunch connections
 Applications area: connecting parts, pipe clamp fixation
 Required accessory: hexagon screw, threaded pin or -rod, washer and hexagon nut

Technical data:

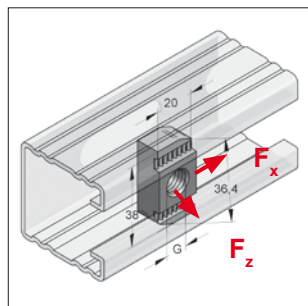
Material: steel
 Material type: S235JR
 Surface: galvanized

application loads see on page 2/27

* not certified acc. to RAL

Identification	Dimension L x W [mm]	Thread G	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Tooth plate S	34 x 21	M6*	0,051	100	0818000
Tooth plate S	36 x 20	M8*	0,050	100	0818101
Tooth plate S	36 x 20	M10	0,048	100	0818102
Tooth plate S	36 x 20	M12	0,045	100	0818103

■ Tooth plate S Zinc-Nickel



Tooth plate S Zinc-Nickel

Specification:

Profile rail type: rail system 45, toothed
 Mounting method: form-lock connections and shear hole haunch connections
 Applications area: connecting parts, pipe clamp fixation.
 hot-dip galvanized profile rail for outside application
 Required accessory: hexagon screw, threaded bolt or -rod, washer and hexagon nut

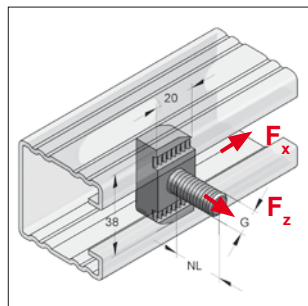
Technical data:

Material: steel
 Material type: S235JR
 Surface: zinc-nickel

application loads see on page 2/27

Identification	Dimension L x W [mm]	Thread G	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Tooth plate S Zinc-Nickel	36 x 20	M8	0,050	100	0818101/zn
Tooth plate S Zinc-Nickel	36 x 20	M10	0,048	100	0818102/zn
Tooth plate S Zinc-Nickel	36 x 20	M12	0,045	100	0818103/zn

■ Tooth bolt



Tooth bolt

**Specification:**

Profile rail type: rail system 45, toothed
 Mounting method: form-lock connections and shear hole haunch connections
 Applications area: connecting parts, pipe clamp fixation
 Required accessory: washer and hexagon nut

Technical data:

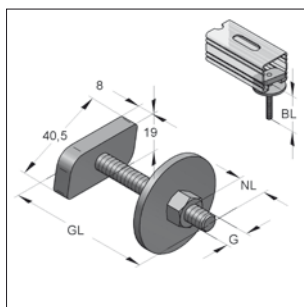
Material: steel
 Material type: S235JR
 Surface: galvanized
 Tooth bolt: property class 8.8

application loads see on page 2/27

* not certified acc. to RAL

Identification	Usable length NL [mm]	Thread G	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Tooth bolt	17,5	M8*	0,045	100	0816936
Tooth bolt	17,5	M10	0,049	100	0816944
Tooth bolt	22,5	M12	0,059	100	0816952

■ Hammer head screw



Hammer head screw

Specification:

Profile rail type: rail system 45
 Mounting method: glide fast connections and shear hole haunch connections
 Applications area: pipe clamp fixations

Technical data:

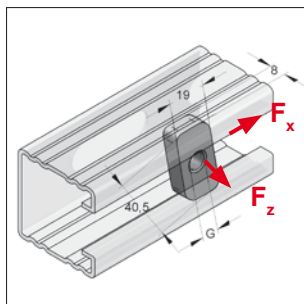
Material: steel
 Material type: S235JR
 Surface: galvanized

¹⁾ not in combination with thread M8/10
²⁾ not in combination with thread M10/12

02

Identification	Thread GxGL [mm]	Construction length BL [mm]	Usable length NL [mm]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Hammer head screw	M8x35 ¹⁾	19,5	9,5	0,070	50	0698735
Hammer head screw	M8x40	24,5	14,5	0,072	50	0698740
Hammer head screw	M8x50	34,5	24,5	0,077	50	0698750
Hammer head screw	M8x70	54,5	44,5	0,084	50	0698770
Hammer head screw	M10x35 ²⁾	19,5	8,0	0,085	50	0699235
Hammer head screw	M10x50	34,5	23,0	0,088	50	0699250
Hammer head screw	M10x70	54,5	43,0	0,097	50	0699270
Hammer head screw	M12x40	25,0	11,0	0,092	50	0699740
Hammer head screw	M12x50	35,0	21,0	0,106	50	0699750
Hammer head screw	M12x70	55,0	41,0	0,120	50	0699770

■ Threaded plate



Threaded plate

Specification:

Profile rail type: rail system 45
 Mounting method: glide fast connections and shear hole haunch connections
 Applications area: pipe clamp fixation
 Required accessory: hexagon screw, threaded bolt or -rod, washer and hexagon nut

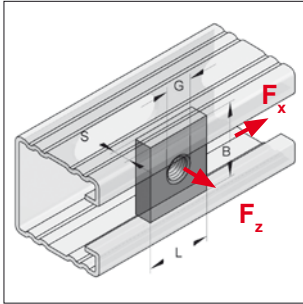
Technical data:

Material: steel
 Material type: S235JR
 Surface: galvanized

application loads see on page 2/29

Identification	Type	Thread G	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Threaded plate	40 x 22	M8	0,040	100	0750107
Threaded plate	40 x 22	M10	0,039	100	0750115
Threaded plate	40 x 22	M12	0,038	100	0750123

■ Threaded square plate



Threaded square plate

Specification:

Profile rail type: rail system 45
 Mounting method: glide fast connections and shear hole haunch connections
 Applications area: connecting parts, can be mounted on bottom of profile
 Required accessory: hexagon screw property class 8.8, threaded bolt or- rod, washer and hexagon nut

Technical data:

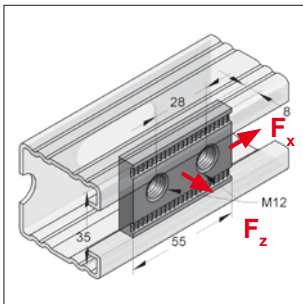
Material: steel
 Material type: S235JR
 Surface: galvanized

application loads see on page 2/29

For profile rail width 45 mm

Identification	Dimension L x B x S [mm]	Thread G	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Threaded square plate	30x35x6	M8	0,070	50	0816112
Threaded square plate	30x35x8	M10	0,069	50	0816120
Threaded square plate	30x35x8	M12	0,069	50	0816138
Threaded square plate	30x35x8	M16	0,068	50	0816146

■ 2-hole tooth plate



2-hole tooth plate


Specification:

Profile rail type: rail system 45
 Mounting method: form-lock connections and shear hole haunch connections
 Applications area: connecting parts, threaded plate can be mounted on bottom of profile rail
 Required accessory: hexagon screw property class 8.8, washer and hexagon nut

Technical data:

Material: steel
 Material type: S235JR
 Surface: galvanized¹⁾

application loads see on page 2/27

¹⁾ components for outdoor application also available with Zinc-Nickel-coating (corrosion-protection class C3 acc. to ISO 9223). Delivery time on demand!

Identification	Dimension L x W x T	Thread	Weight [kg/pc.]	Packing [pcs.]	Part-No.
2-hole tooth plate	55 x 35 x 8	M12	0,105	50	0818110

Admissible loading capacity according to RAL-GZ 655-D

in combination with STEX 45, 2-hole tooth plate, tooth plate S, tooth bolt
global safety coefficient $\gamma = 2$

Profile rail pre-galvanized	STEX 45 threaded bolt, STEX 45 mounting plate, STEX 45 mounting bolt			
			M12 8.8	M10 8.8
	F _z [kN]	F _x [kN]	tightening torque [Nm]	tightening torque [Nm]
45/26/1,5	4,11	3,86	50	45
45/52/1,5 D				
45/45/1,5				
45/90/1,5 D				
45/45/2,0				
45/90/2,0 D	10,94	4,41		
45/45/2,5				
45/90/2,5 D				
45/60/3,0				
45/120/3,0 D				
45/75/3,0				
45/150/3,0 D				

Profile rail pre-galvanized	2-hole tooth plate		
			M12 8.8
	F _z [kN]	F _x [kN]	tightening torque [Nm]
45/26/1,5	5,57	10,00	60
45/52/1,5 D			
45/45/1,5			
45/90/1,5 D			
45/45/2,0			
45/90/2,0 D	13,97	12,81	
45/45/2,5			
45/90/2,5 D			
45/60/3,0			
45/120/3,0 D			
45/75/3,0			
45/150/3,0 D			

Profile rail pre-galvanized	Tooth plate S, tooth bolt			
			M12 8.8	M10 8.8
	F_z [kN]	F_x [kN]	tightening torque [Nm]	tightening torque [Nm]
45/26/1,5	7,61	3,91	60	50
45/52/1,5 D				
45/45/1,5				
45/90/1,5 D				
45/45/2,0				
45/90/2,0 D	13,86	4,32		
45/45/2,5				
45/90/2,5 D				
45/60/3,0				
45/120/3,0 D				
45/75/3,0				
45/150/3,0 D				

■ Admissible loading capacity according to RAL-GZ 655-D

in combination with STEX 45, 2-hole tooth plate, tooth plate S, tooth bolt
global safety coefficient $\gamma = 2$

Profile rail hot-dip galvanized	STEX 45 threaded bolt, STEX 45 mounting plate, STEX 45 mounting bolt			
			M12 8.8	M10 8.8
	F_z [kN]	F_x [kN]	tightening torque [Nm]	tightening torque [Nm]
45/45/2,5	10,94	2,95	50	45
45/90/2,5 D				
45/60/3,0				
45/120/3,0 D				
45/75/3,0*				
45/150/3,0 D*				

Profile rail hot-dip galvanized	2-hole threaded plate		
			M12 8.8
	F_z [kN]	F_x [kN]	tightening torque [Nm]
45/45/2,5	13,97	4,38	60
45/90/2,5 D			
45/60/3,0			
45/120/3,0 D			
45/75/3,0*			
45/150/3,0 D*			

Profile rail hot-dip galvanized	Tooth plate S, tooth bolt			
			M12 8.8	M10 8.8
	F_z [kN]	F_x [kN]	tightening torque [Nm]	tightening torque [Nm]
45/45/2,5	13,86	2,90	60	50
45/90/2,5 D				
45/60/3,0				
45/120/3,0 D				
45/75/3,0*				
45/150/3,0 D*				

* without approval according to RAL-GZ 655-D

Admissible loading capacity

in combination with Stex45, threaded bolt GB, threaded plate, threaded square plate
global safety coefficient $\gamma = 2$

Profile rail hot-dip galvanized	STEX 45 GB, threaded bolt GB		
			M12 4.6
	F _z [kN]	F _x [kN]	tightening torque [Nm]
45/26/1,5	4,11	2,80	29
45/52/1,5 D			
45/45/1,5			
45/90/1,5 D			
45/45/2,0			
45/90/2,0 D			
45/45/2,5	9,54	2,80	
45/90/2,5 D			
45/60/3,0			
45/120/3,0 D			
45/75/3,0			
45/150/3,0 D			

Profile rail hot-dip galvanized	Threaded plate 40 x 22		
			M12 8.8
	F _z [kN]	F _x [kN]	tightening torque [Nm]
45/26/1,5	4,24	1,10	40
45/52/1,5 D			
45/45/1,5			
45/90/1,5 D			
45/45/2,0			
45/90/2,0 D	10,00	1,10	
45/45/2,5			
45/90/2,5 D			
45/60/3,0			
45/120/3,0 D			
45/75/3,0			
45/150/3,0 D			

Profile rail hot-dip galvanized	Threaded square plate 35 x 30 x 8			
			M12 8.8	M10 8.8
	F _z [kN]	F _x [kN]	tightening torque [Nm]	tightening torque [Nm]
45/26/1,5	3,23	1,70	60	50
45/52/1,5 D				
45/45/1,5				
45/90/1,5 D				
45/45/2,0				
45/90/2,0 D	8,80	2,00		
45/45/2,5				
45/90/2,5 D				
45/60/3,0				
45/120/3,0 D				
45/75/3,0				
45/150/3,0 D				

■ Admissible loading capacity

in combination with Stex45, threaded bolt GB, threaded plate, threaded square plate
global safety coefficient $\gamma = 2$

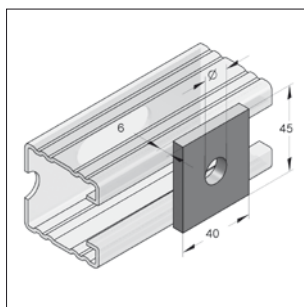
Profile rail hot-dip galvanized	STEX 45 GB, threaded bolt GB		
			M12 4.6
	F_z [kN]	F_x [kN]	tightening torque [Nm]
45/45/2,5	9,54	2,36	29
45/90/2,5 D			
45/60/3,0			
45/120/3,0 D			
45/75/3,0*			
45/150/3,0 D*			

Profile rail hot-dip galvanized	Threaded plate 40 x 22		
			M12 8.8
	F_z [kN]	F_x [kN]	tightening torque [Nm]
45/45/2,5	10,00	1,74	60
45/90/2,5 D			
45/60/3,0			
45/120/3,0 D			
45/75/3,0*			
45/150/3,0 D*			

Profile rail hot-dip galvanized	Threaded square plate 35 x 30 x 8			
			M12 8.8	M10 8.8
	F_z [kN]	F_x [kN]	tightening torque [Nm]	tightening torque [Nm]
45/45/2,5	8,80	1,90	60	50
45/90/2,5 D				
45/60/3,0				
45/120/3,0 D				
45/75/3,0*				
45/150/3,0 D*				

* without approval according to RAL-GZ 655-D

■ Perforated plate



Perforated plate

Specification:
Profile rail type: rail system 45

Technical data:
Material: steel
Material type: S235JR
Surface: galvanized¹⁾

¹⁾ components for outdoor application areas also available with Zinc-Nickel-coating (corrosion-protection class C3 acc. to ISO 9223). Delivery time on demand!

02

Identification	Hole-Ø [mm]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Perforated plate	13	0,08	50	0814016
Perforated plate	17	0,08	50	0814017

■ Protecting cap



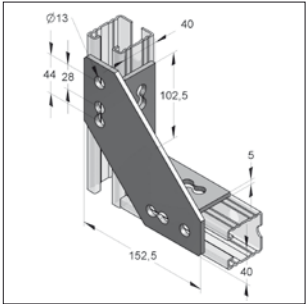
Protecting cap

Specification:
Profile rail type: rail system 45

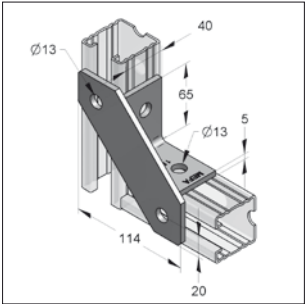
Technical data:
Material: plastic PE
Material colour: black

Identification	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Protecting cap 45 / 26	0,0061	50	0819005
Schutzkappen 45 / 40 (for stainless steel profile rails)	0,0085	50	0819032
Protecting cap 45 / 45	0,0070	50	0819036
Protecting cap 45 / 60	0,0130	50	0819042
Protecting cap 45 / 75	0,0150	50	0819046

■ Universal knot



Universal knot



Universal knot K

Specification:
Profile rail type: rail system 45
Applications area: corner joint of C-profile channels

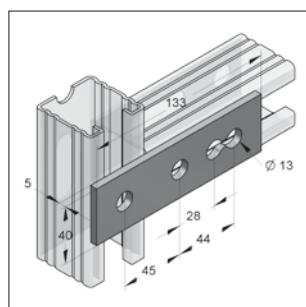
combination of knot triangle,
corner lug and corner angle
left and right

Technical data:
Material: steel
Material type: S235JR
Surface: galvanized

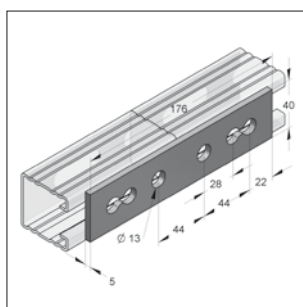
Loads refering to component, not to connection
*Remark: torque free rail connection.

Identification	Weight	Packing	Part-No.
	[kg/pc.]	[pcs.]	
Universal knot	0,79	10	08141600
Universal knot K*	0,43	25	08141601

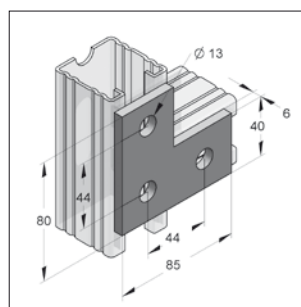
Flat connector



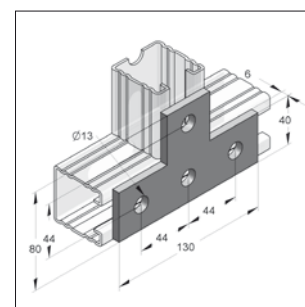
3-hole flat connector 40/5



4-hole flat connector 40/5



L-shaped flat connector 40/6



T-shaped flat connector 40/6

Specification:

Profile rail type: rail system 45

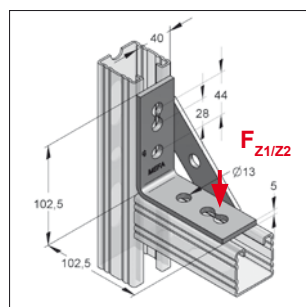
Technical data:

Material: steel
Material type: S235JR
Surface: galvanized

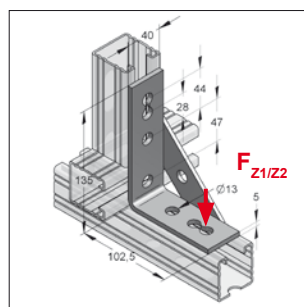
Remark: torque free rail connection

Identification	Dimension L x W x T	Weight [kg/pc.]	Packing [pcs.]	Part-No.
3-hole flat connector 40/5	133 x 40 x 5	0,23	25	0814331
4-hole flat connector 40/5	176 x 40 x 5	0,30	25	0814349
Flat connector 40/6 L-shape	85 x 80 x 6	0,21	25	0814307
Flat connector 40/6 T-shape	130 x 80 x 6	0,29	25	0814315

Knot triangle



4-hole knot triangle 40/5



5-hole knot triangle 40/5

Specification:

Profile rail type: rail system 45

Technical data:

Material: steel
Material type: S235JR
Surface: galvanized¹⁾

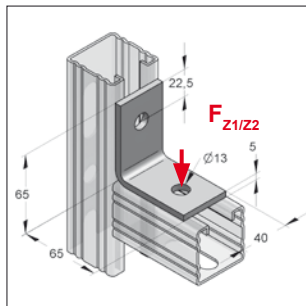
¹⁾ components for outdoor application also available with Zinc-Nickel-coating (corrosion-protection class C3 acc. to ISO 9223). Delivery time on demand!

²⁾ loads referring to component, not to connection

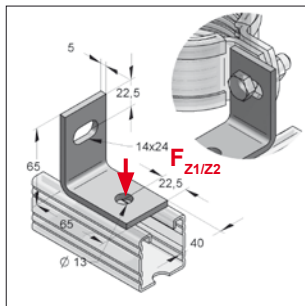
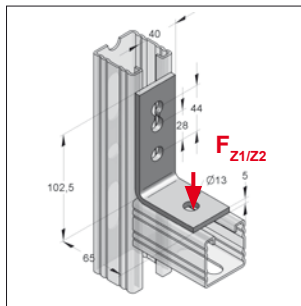
³⁾ loads referring to component, double-sided fixed on profile

Identification	Dimension L x W [mm]	Max. load		Weight [kg/pc.]	Packing [pcs.]	Part-No.
		$F_{Z1}^{2)}$	$F_{Z2}^{3)}$			
		without profile rail [kN]	with profile rail [kN]			
4-hole knot triangle 40/5	102,5 x 102,5	2,0	6,0	0,37	25	08140700
5-hole knot triangle 40/5	135 x 102,5	2,0	6,0	0,41	25	08141700

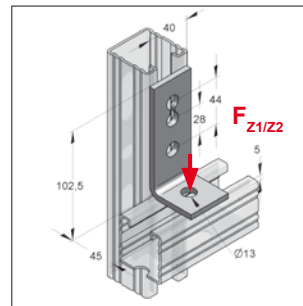
Angle



2-hole angle 40/5


2-hole angle 40/5,
with elongated hole, vertical


3-hole angle 40/5 L



3-hole angle 40/5 K

Specification:

Profile rail type: rail system 45

¹⁾ components for outdoor application also available with Zinc-Nickel-coating (corrosion-protection class C3 acc. to ISO 9223). Delivery time on demand!

²⁾ loads referring to component, not to connection

³⁾ loads referring to component, double-sided fixed on profile

Technical data:

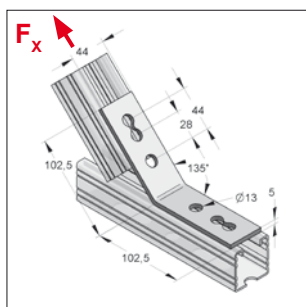
Material: steel

Material type: S235JR

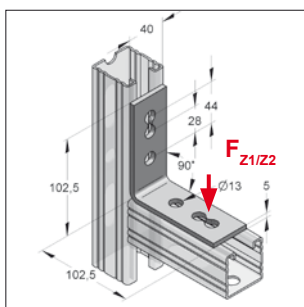
Surface: galvanized¹⁾

Identification	Dimension L x W [mm]	Max. load		Weight [kg/pc.]	Packing [pcs.]	Part-No.
		$F_{Z1}^{2)}$ without profile rail [kN]	$F_{Z2}^{3)}$ with profile rail [kN]			
2-hole angle 40/5	65 x 65	1,0	2,5	0,18	50	081402400
2-hole angle 40/5, elongated hole horizontal	65 x 65	1,0	2,5	0,17	50	08147300
3-hole angle 40/5 L	102,5 x 65	1,0	2,5	0,23	25	08140300
3-hole angle 40/5 K	102,5 x 45	1,0	2,5	0,20	50	08140400

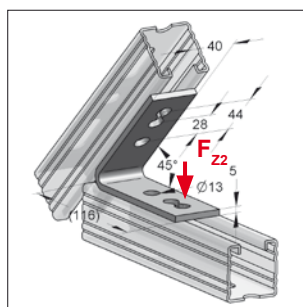
Angle



4-hole angle 40/5 135°



4-hole angle 40/5 90°



4-hole angle 40/5 45°

Specification:

Profile rail type: rail system 45

^{1), 3)} loads referring to component, not to connection

²⁾ loads referring to component, double-sided fixed on profile

Technical data:

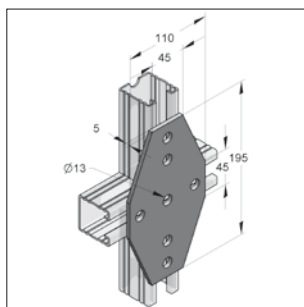
Material: steel

Material type: S235JR

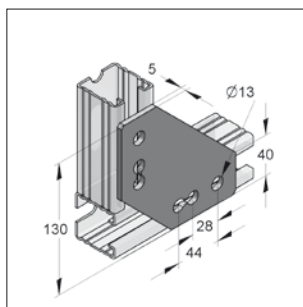
Surface: galvanized

Identification	Dimension L x W [mm]	Max. load			Weight [kg/pc.]	Packing [pcs.]	Part-No.
		$F_{Z1}^{1)}$ without profile rail [kN]	$F_{Z2}^{2)}$ with profile rail [kN]	$F_x^{3)}$ [kN]			
4-hole angle 40/5 135°	102,5 x 102,5	-	-	6,6	0,29	50	08140600
4-hole angle 40/5 90°	102,5 x 102,5	1,0	2,5	-	0,28	50	08140500
4-hole angle 40/5 45°	116 x 116	-	2,5	-	0,28	25	08141000

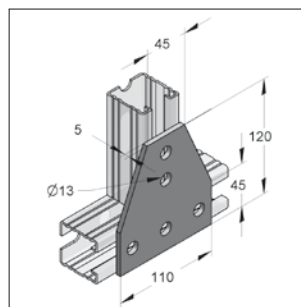
Cross strap / T-lug



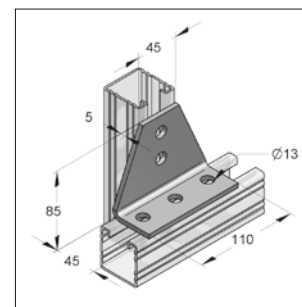
Cross strap



4-hole corner plate



T-lug, not angled



T-lug, angled

Specification:

Profile rail type: rail system 45

Technical data:

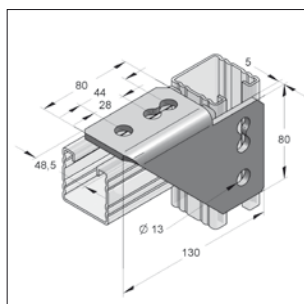
 Material: steel
 Material type: S235JR
 Surface: galvanized¹⁾

Remark: admissible loads are dependant on component

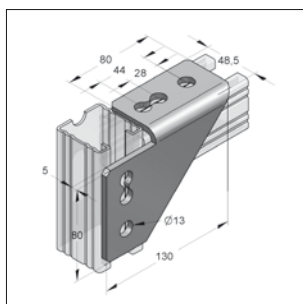
¹⁾ components for outdoor application also available with Zinc-Nickel-coating (corrosion-protection class C3 acc. to ISO 9223). Delivery time on demand!

Identification	Dimension L x W x T [mm]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Cross strap	195 x 110 x 5	0,61	10	0816582
4-hole corner plate	130 x 40 x 5	0,42	10	08165900
T-lug, not angled	120 x 110 x 5	0,41	25	0816574
T-lug 90° angled	85 x 110 x 5	0,41	25	0816870

Corner angle



4-hole corner angle right



4-hole corner angle left

Specification:

Profile rail type: rail system 45

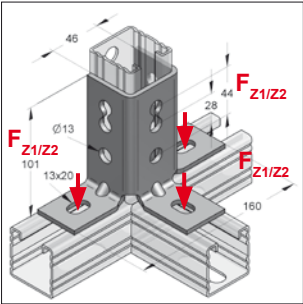
Technical data:

 Material: steel
 Material type: S235JR
 Surface: galvanized

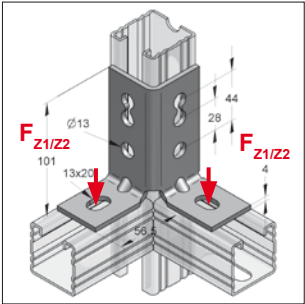
Remark: admissible loads are dependant of component

Identification	Weight [kg/pc.]	Packing [pcs.]	Part-No.
4-hole corner angle right	0,37	10	08147200
4-hole corner angle left	0,37	10	08147100

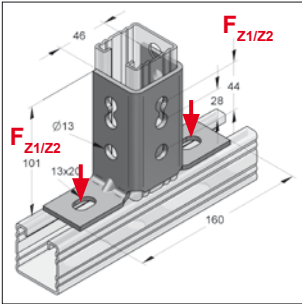
■ Angle connector



Angle connector C 45



Angle connector C 45 90°



Angle connector C 45 180°

Specification:

Profile rail type: rail system 45
Applications area: connection of profile rail and frames

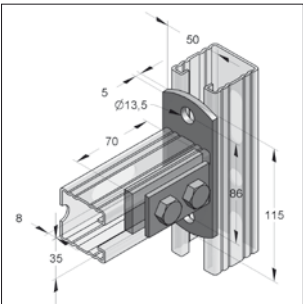
Technical data:

Material: steel
Material type: S235JR
Surface: galvanized¹⁾

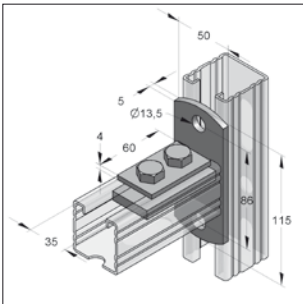
¹⁾ components for outdoor application also available with Zinc-Nickel-coating (corrosion-protection class C3 acc. to ISO 9223). Delivery time on demand!
²⁾ loads referring to component, not to connection
³⁾ loads referring to component, double-sided fixed on profile

Identification	Max. load F _{Z1} ²⁾ without profile rail [kN]	Max. load F _{Z2} ³⁾ with profile rail [kN]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Angle connector C45	1,5	4,0	0,53	15	08123000
Angle connector C45 90°	1,5	4,0	0,34	15	08123200
Angle connector C45 180°	1,5	4,0	0,46	15	08123100

■ Connector 45



Connector 45



Connector 45 horizontal

Specification:

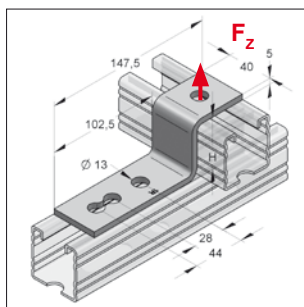
Profile rail type: rail system 45
Applications area: connection of profile rails, moment-free connections only (not for connection of consoles)
Scope of supply: 2-hole plate 13 mm hexagon screw M12

Technical data:

Material: steel
Material type: S235JR
Surface: galvanized

Identification	Screws	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Connector 45	M12	0,47	25	081656601
Connector 45 horizontal	M12	0,47	25	081646501

■ 3-hole corresponding angle 40/5



Corresponding angle 40/5

Specification:
Profile rail type: rail system 45

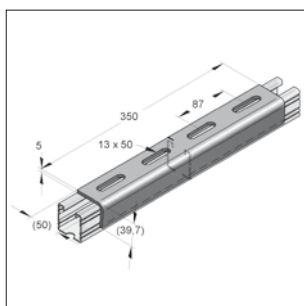
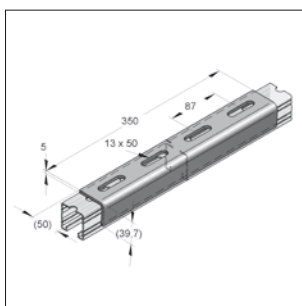
Technical data:
Material: steel
Material type: S235JR
Surface: galvanized

* loads referring to component, not to connection

02

Identification	Dimension H [mm]	Max. load * F_z [kN]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Corresponding angle 45	45	1,0	0,27	25	08141245
Corresponding angle 60	60	1,0	0,38	25	08141300

■ Connector 45

Connector 45
rail slot at topConnector 45
rail slot at bottom

Remark:
fixation on top of rail
(not double profile rails) to
reach equal load capacity as
unbroken rail

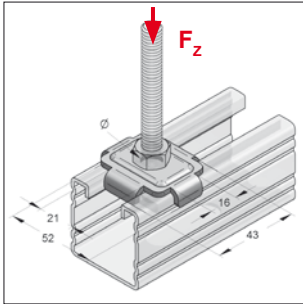
Specification:		Technical data:	
Profile rail type:	rail system 45	Material:	steel
Applications area:	for static load connection and extension of C-profile rails of the rail system 45	Material type:	S235JR
		Surface:	galvanized ¹⁾
Recommended accessory:	4 x tooth plate S M12 or Stex 45 MP/MTB M12 4 x hexagon screw M12 x 25 4 x washer 13 x 24 x 2,5 (DIN 7089-12)	¹⁾ components for outdoor application also available with Zinc-Nickel-coating (corrosion-protection class C3 acc. to ISO 9223). Delivery time on demand!	
Remark:	connecting of double profile rails with two connectors 45		

For profile rail width 45

Identification	Height [mm]	Width [mm]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Connector 45	39,7	50	1,05	15	08162001

 mounting recommendation see chapter 15

Profile holder



Profile holder

Specification:

Profile rail type: rail system 35, 45, Stex 35
Applications area: suitable for connection of profile rails

Technical data:

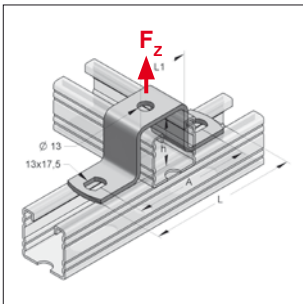
Material: steel
Material type: S235JR
Surface: galvanized¹⁾

¹⁾ components for outdoor application also available with Zinc-Nickel-coating (corrosion-protection class C3 acc. to ISO 9223). Delivery time on demand!

For profile rail 35, 45 and Stex 35

Identification	Tightening torque	Max. load F_z	Hole-Ø	Weight	Packing	Part-No.
	[Nm]	[kN]	[mm]	[kg/pc.]	[pcs.]	
Profile holder combi 11	10	4,7	11,0	0,046	100	08095035
Profile holder combi 13	10	4,7	13,0	0,043	100	08162945
Profile holder combi 17	10	4,7	17,0	0,041	100	08163365

Head profile



Head profile

Specification:

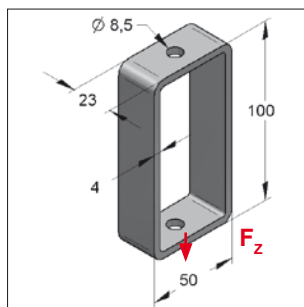
Profile rail type: rail system 45
Applications area: suitable for connection of profile rails

Technical data:

Material: steel
Material type: S235JR
Surface: galvanized

Identification	Suitable for profile rail	L	A	L1	h	Max. load F_z	Material thickness	Weight	Packing	Part-No.
		[mm]	[mm]	[mm]	[mm]	[kN]	[mm]	[kg/pc.]	[pcs.]	
Head profile 26	45/26	136	107	46	26	3,5	4	0,19	25	08162326
Head profile 45	45/45	136	107	46	45	3,5	4	0,21	25	08162445
Head profile 52	45/52-D	136	107	46	52	3,5	4	0,25	25	08162452
Head profile 60	45/60	136	107	46	60	3,5	4	0,25	25	0816253
Head profile 75	45/75	136	107	46	75	3,5	4	0,29	25	08162875
Head profile 90	45/90-D	136	107	46	90	3,5	4	0,31	25	08162690
Head profile 120	45/120-D	136	107	46	120	3,5	4	0,40	25	0816274

2-hole suspending console



2-hole suspending console
100/50/4

Specification:

Application area: universal fixation e.g.
suitable for ceiling suspension

Technical data:

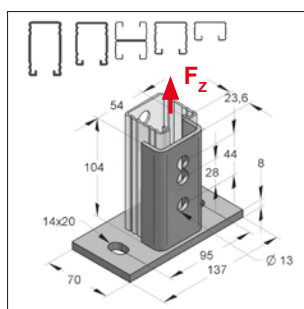
Material: steel
Material type: S235JR
Surface: galvanized

¹⁾ loads referring to component, not to connection

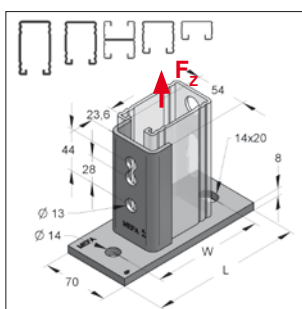
02

Identification	Dimension L x B x S [mm]	Hole-Ø [mm]	max. load $F_z^{1)}$ [kN]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
2-hole suspending console	100 x 50 x 4	8,5	1,9	0,195	50	9998541

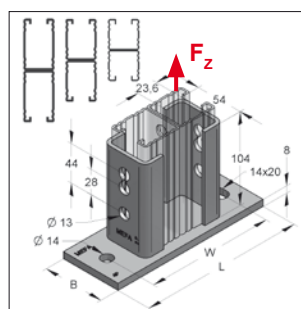
Holder



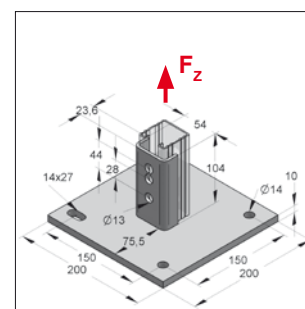
Holder horizontal
for C-profile rail



Holder vertical
for C-profile rail



Holder for double
C-profile rail



Holder square
for C-profile rail

Specification:

Profile rail type: rail system 45
Applications area: for fixation of profile rails
on construction

Technical data:

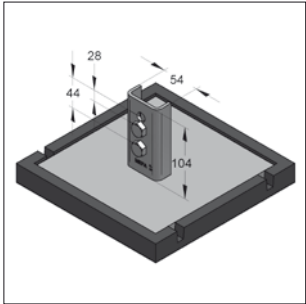
Material: steel
Material type: S235JR
Surface: hot-dip galv¹⁾

¹⁾ variations in dimension up to 1 mm possible

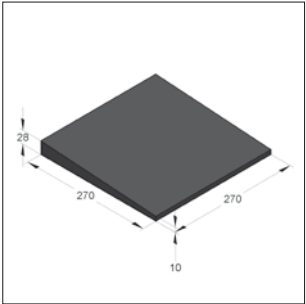
²⁾ loads referring to component, not to connection

Identification	Plate L x B	Hole distance W	Max. profile height	Suitable for								Max. load F _z ²⁾	Weight	Packing	Part-No.
				C-profile 45/..											
				26	45	60	75	52D	90D	120D	150D				
	[mm]	[mm]	[mm]									[kN]	[kg/pc.]	[pcs.]	
Holder horizontal	137 x 70	95	75	●	●	●	●	●				12,0	0,87	15	08120402
Holder vertical	137 x 70	95	52	●	●			●				9,3	0,87	15	08120102
Holder vertical	160 x 70	118	75			●	●					7,3	0,98	10	08121802
Holder for double rail	186 x 70	144	90						●			13,7	1,31	5	08120952
Holder for double rail	225 x 80	185	120							●		13,7	1,80	5	08121001
Holder for double rail	246 x 70	204	150								●	13,5	1,57	5	08121452
Holder square	200 x 200	150		●	●	●	●	●	●	●	●	10,0	3,53	5	08197000

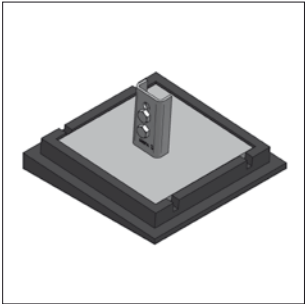
■ Rooftop holder for rooftop constructions



Rooftop holder complete



Rubber wedge 4°



Rooftop holder complete with
rubber wedge underneath

Specification:
Profile rail type: 45/26, 45/45, 45/60, 45/52, 45/60, 45/75, 45/90, 45/120
Applications area: for profile channel constructions onto rooftop
Installation advise: position rooftop holder on rubber pad.
For compensation of possible roof pitch place rubber wedge (4°) below rubber pad

Scope of delivery
(Rooftop holder complete): 1 x rubber pad
1 x holder
2 x hexagon screws M12 x 25
1 x 2-hole tooth plate

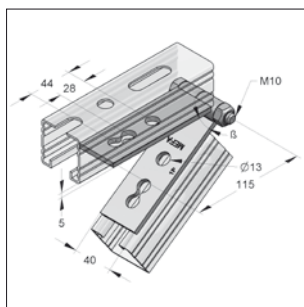
Technical data:
Material holder: steel
Material type: S235JR
Surface screw : zinc-nickel
Surface holder:: hot-dip galv.

Material rubber pad: SBR

according to building
material class DIN 4102: B2

Identification	Dimension steel plate	Dimension rubber pad	Pressure load	Weight	Packing	Part-No.
	[mm]	[mm]	[kN]	[kg/pc.]	[pcs.]	
Rooftop holder complete	200x200x10	235x235x28	4,0	4,84	10	08197500
Rooftop holder rubber wedge	-	270x270x28/10	4,0	1,33	1	08197598

Joint connector for C-profile rails



Joint connector
for C-profile rails

Specification:

Profile rail type: rail system 45
Applications area: mounting of two profile rails
of various angularity

Technical data:

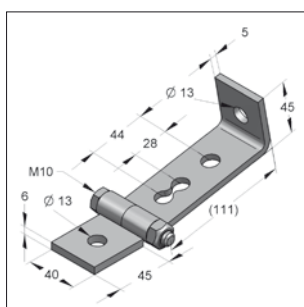
Material: steel
Material type: S235JR
Surface: galvanized¹⁾

¹⁾ components for outdoor application also available with Zinc-Nickel-coating
(corrosion-protection class C3 acc. to ISO 9223). Delivery time on demand!

02

Identification	Dimension L x W x T [mm]	Angle β	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Joint connector	115 x 40 x 5	+/-160°	0,46	20	08122200

Joint angle

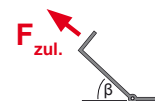


Joint angle



Mounting example
Joint angle with bracing

Admissible load at angle β



Angle β	0°	30°	45°	60°	90°
Fzul.* [kN]	4,5	5,2	4,0	3,2	2,8

Specification:

Applications area: for bracing of threaded rod M12 with
arbitrary angularity.
fixation onto profile channel or direct-mounting
onto building structure.

Technical data:

Material: steel
Material type: S235JR
Surface: galvanized¹⁾

Remark: for upright mounting consider shear
forces in radial tubular axle

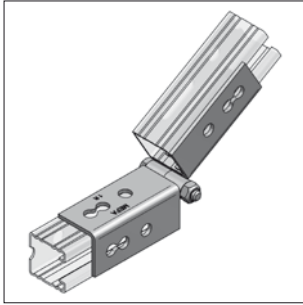
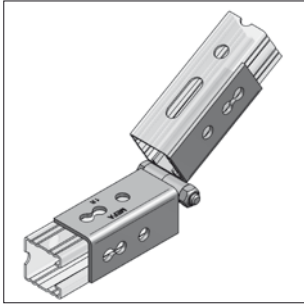
¹⁾ components for outdoor application also available with Zinc-Nickel-coating (corrosion-protection class C3 acc. to ISO 9223). Delivery time on demand!

* loads referring to component, not to connection

Identification	Hole-Ø [mm]	Angle β	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Joint angle 40/5	13	0° - 90°	0,399	20	08122300

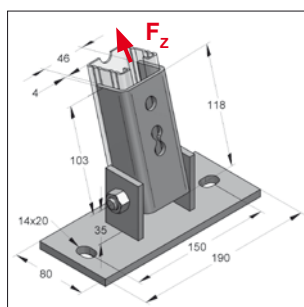
Profile joint connector

Position of channel arbitrary

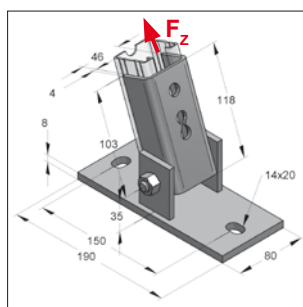


Joint holder with base plate

02



Joint holder with
base plate horizontal



Joint holder with
base plate vertical

Specification:

Profile rail type: rail system 45
Mounting method: on inclined roof- and bottom construction
stepless fixable

Technical data:

Material: steel
Material type: S235JR
Surface: galvanized¹⁾

Recommended accessory: 1 x 2-hole tooth plate
2 x hexagon screw M12 x 25
2 x washer DIN 7089-12

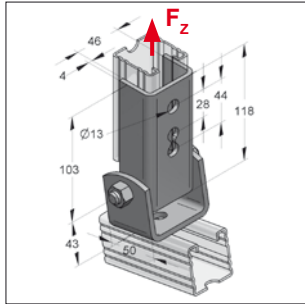
Applications area: cross girder at various
angle up to 90°

¹⁾ components for outdoor application also available with Zinc-Nickel-coating (corrosion-protection class C3 acc. to ISO 9223). Delivery time on demand!

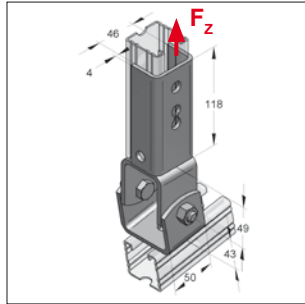
²⁾ loads referring to component, not to connection

Identification	Dimension plate [mm]	Tightening torque [Nm]	Max. load $F_z^{2)}$ [kN]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Joint holder with base plate horizontal	190 x 80 x 8,0	50	7,0	1,91	10	08122500
Joint holder with base plate vertical	190 x 80 x 8,0	50	7,0	1,91	10	08122600

Joint holder



Joint holder
vertical



Joint holder
horizontal

Specification:

Profile rail type: rail system 45
Mounting method: on inclined roof- and bottom construction
stepless fixable

Technical data:

Material: steel
Material type: S235JR
Surface: galvanized¹⁾

Recommended accessory: 1 x 2-hole tooth plate
2 x hexagon screw M12 x 25
2 x washer DIN 7089-12

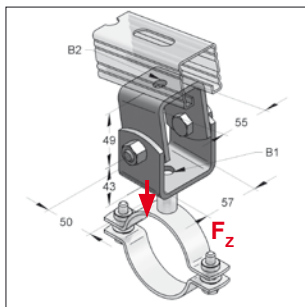
Applications area: cross girder at various
angle up to 90°

¹⁾ components for outdoor application also available with Zinc-Nickel-coating (corrosion-protection class C3 acc. to ISO 9223). Delivery time on demand!

²⁾ loads referring to component, not to connection

Identification	For profile rail width	Hole-Ø	Tightening torque	Max. load	Weight	Packing	Part-No.
	[mm]	[mm]	[Nm]	$F_z^{2)}$ [kN]	[kg/pc.]	[pcs.]	
Joint holder vertical	45	13	50	7,0	0,92	10	08120600
Joint holder horizontal	45	13	50	7,0	1,11	10	08121100

Joint holder with terminal hole



Joint holder with terminal hole

Specification:

Mounting method: on inclined roof- and bottom construction
stepless fixable
Applications area: for connecting pipe clamps

Technical data:

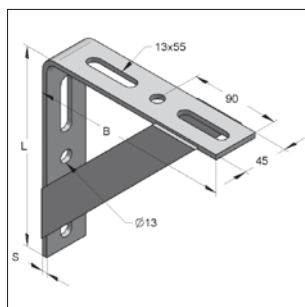
Material: steel
Material type: S235JR
Surface: galvanized¹⁾

¹⁾ components for outdoor application also available with Zinc-Nickel-coating (corrosion-protection class C3 acc. to ISO 9223). Delivery time on demand!

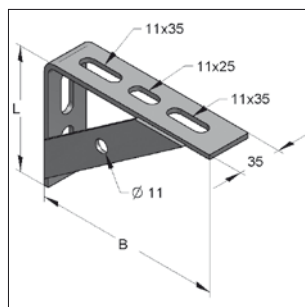
²⁾ loads refer to component, not to connection

Identification	For threaded rods	B1	B2	Max. load	Weight	Packing	Part-No.
	B1 / B2	[mm]	[mm]	$F_z^{2)}$ [kN]	[kg/pc.]	[pcs.]	
Joint holder with terminal hole	M8-M12 / M8-M12	13	13	10,0	0,76	20	0812072
Joint holder with terminal hole	M8-M12 / M16	13	17	10,0	0,76	20	0812080
Joint holder with terminal hole	M16 / M16	17	17	10,0	0,76	20	0812177

Angle bracket



Angle bracket



Knot bracket 100/150/4 L

Specification:

Profile rail type: rail system 45
hole distance 105 mm

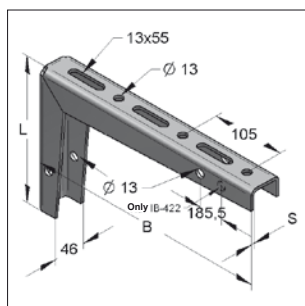
Technical data:

Material: steel
Material type: S235JR
Surface: galvanized

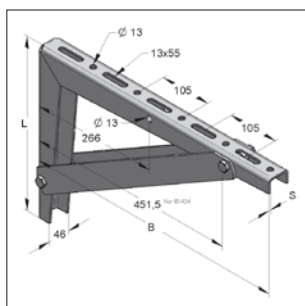
¹⁾ loads referring to component, not to connection

Identification	Dimension L x B x S [mm]	max. load ¹⁾ [kN]	Length [mm]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Angle bracket with 2 braces	200 x 200 x 5	5,0	150	1,10	15	0814083
Angle bracket with 2 braces	300 x 300 x 5	5,0	250	1,70	10	0814091
Knot bracket L	100 x 152 x 4	2,5	120	0,30	25	0803100

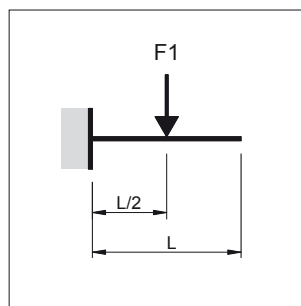
Universal console



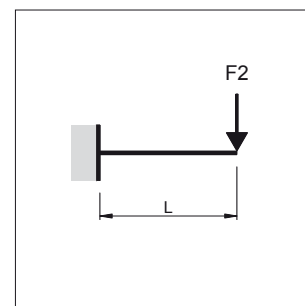
Universal console



Universal console with knot



Loading condition 1 (LC1)



Loading condition 2 (LC2)

Specification:

Profile rail type: rail system 45
hole distance 105 mm

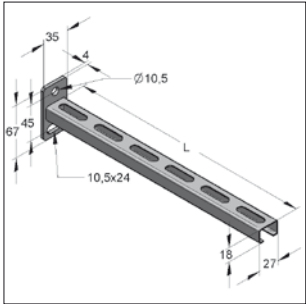
Technical data:

Material: steel
Material type: S235JR
Surface: galvanized

¹⁾ loads referring to component, not to connection

Identification	Dimension L x B x S [mm]	max. load ¹⁾		Weight [kg/pc.]	Packing [pcs.]	Part-No.
		F ₁ [kN]	F ₂ [kN]			
Universal console	200 x 200 x 4,0	6,5	4,0	1,00	15	0814201
Universal console	200 x 350 x 4,0	5,0	3,0	1,60	10	0814219
Universal console	350 x 550 x 4,0	4,0	1,5	3,00	5	0814227
Universal console with knot	200 x 350 x 4,0	6,2	4,9	1,90	10	0814235
Universal console with knot	350 x 550 x 4,0	6,5	3,7	4,00	5	0814243

■ Console C-profile 27/18/1,25 mm

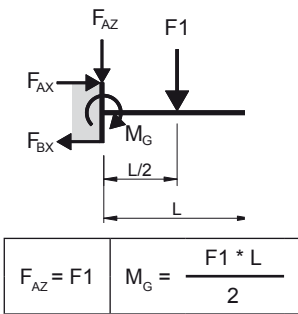


Console C 27/18/1,25 mm
Profile slot at bottom side

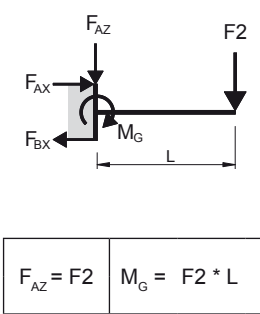
Technical data:			
Material type plate:	S235JR, fy = 235 N/mm ²	Dimension plate:	67 x 35 x 4,0 mm
Material type profile rail:	DC01, fy = 160 N/mm ²	Dimension profile rail:	27 x 18 x 1,25 mm
Surface:	galvanized		
Material:	steel		
global safety coefficient γ:	1,35		
limitation torque	M _G :	36,74 Nm	
Reaction force	F _{AX} :	0,82 kN	
Reaction force	F _{BX} :	0,82 kN	
M _G , F _{AX} , F _{BX} on	LC1: up to L = 630,5 mm		
	LC2: up to L = 315,5 mm		
	LC3: up to L = 420,5 mm		

Identification	Length	Load situation1	max. load		Weight	Packing	Part-No.
			Load	Load			
			situation 2	situation 3			
			F1	F2			
[mm]	[kN]	[kN]	[kN/m]	[kg/pc.]	[pcs.]		
Console C-27/18	158,0	0,47	0,23	2,94	0,17	25	18010158
Console C-27/18	210,0	0,35	0,17	1,66	0,20	25	18010210
Console C-27/18	263,0	0,28	0,14	1,06	0,23	25	18010263
Console C-27/18	315,0	0,23	0,12	0,74	0,26	25	18010315

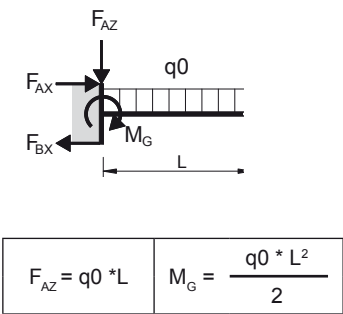
Loading condition 1 (LC1)



Loading condition 2 (LC2)

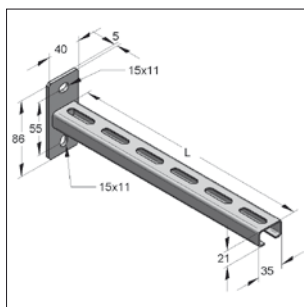


Loading condition 3 (LC3)



Notice:
all loads referring to static loads

Console C-profile 35/21/2,0 mm



Console C 35/21/2,0 mm
Profile slot at bottom side

Technical data:

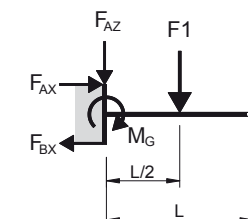
Material type plate:	S235JR, $f_y = 235 \text{ N/mm}^2$	Dimension plate:	86 x 40 x 5,0 mm
Material type profile rail:	S250JR, $f_y = 250 \text{ N/mm}^2$	Dimension profile rail:	35 x 21 x 2,0 mm
Surface:	galvanized		
Material:	steel		
global safety coefficient γ :	1,35		

limitation torque M_G :	93,86 Nm
Reaction force F_{AX} :	1,71 kN
Reaction force F_{BX} :	1,71 kN
M_G, F_{AX}, F_{BX} on	LC1: up to $L = 630,0 \text{ mm}$
	LC2: up to $L = 315,0 \text{ mm}$
	LC3: up to $L = 472,5 \text{ mm}$

¹⁾ load limitation due to admissible bending $L/150$. Limitation torque M_G and bearing strengths F_{AX}, F_{BX} not valid anymore

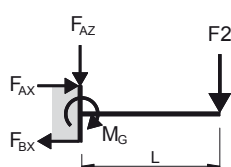
Identification	Length	loading condition 1	max. load loading condition 2	loading condition 3	Weight	Packing	Part-No.
	L [mm]	F1 [kN]	F2 [kN]	q0 [kN/m]	[kg/pc.]	[pcs.]	
Console C-35/21	157,5	1,19	0,60	7,57	0,32	25	18020158
Console C-35/21	210,0	0,89	0,45	4,26	0,38	15	18020210
Console C-35/21	262,5	0,72	0,36	2,72	0,44	25	18020263
Console C-35/21	315,0	0,60	0,30	1,89	0,50	25	18020315
Console C-35/21	420,0	0,45	0,19 ¹⁾	1,06	0,63	25	18020420
Console C-35/21	525,0	0,36	0,12 ¹⁾	0,62 ¹⁾	0,75	25	18020525

Loading condition 1 (LC1)



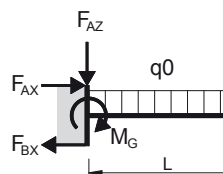
$$F_{AZ} = F1 \quad M_G = \frac{F1 * L}{2}$$

Loading condition 2 (LC2)



$$F_{AZ} = F2 \quad M_G = F2 * L$$

Loading condition 3 (LC3)

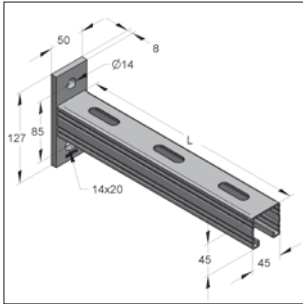


$$F_{AZ} = q0 * L \quad M_G = \frac{q0 * L^2}{2}$$

Notice:

all loads referring to static loads

■ Console C-profile 45/45/2,0 mm



Console C 45/45/2,0 mm

Technical data: galvanized / hot-dip galv

Material type plate:	S355J2, $f_y = 355 \text{ N/mm}^2$	Dimension plate:	127 x 50 x 8,0 mm
Material type profile rail:	S235JR, $f_y = 235 \text{ N/mm}^2$	Dimension profile rail:	45 x 45 x 2,0 mm
Surface:	galvanized / hot-dip galvanized		
Material:	steel		
Global safety coefficient γ :	1,54		

Limitation torque	M_G :	522 Nm
Reaction force	F_{AX} :	6,15 kN
Reaction force	F_{BX} :	6,15 kN
M_G, F_{AX}, F_{BX} on	LC1:	up to = 1155 mm
	LC2:	up to = 525 mm
	LC3:	up to = 735 mm

¹⁾ load limitation due to admissible bending $L/150$. Limitation torque M_G and bearing strengths F_{AX}, F_{BX} not valid anymore

Console C-45/45 - profile rail 45/45/2,0

galvanized

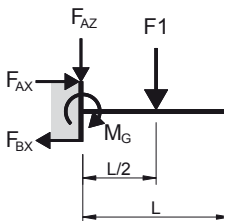
Identification	Length L [mm]	Loading condition 1 F1 [kN]	Max. load Loading condition 2 F2 [kN]	Loading condition 3 q0 [kN/m]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Console C-45/45	210,0	4,98	2,49	23,70	0,87	15	180450210
Console C-45/45	315,0	3,32	1,66	10,53	1,13	15	180450315
Console C-45/45	420,0	2,49	1,24	5,92	1,39	10	180450420
Console C-45/45	525,0	1,99	1,00	3,79	1,65	10	180450525
Console C-45/45	630,0	1,66	0,82 ¹⁾	2,63 ¹⁾	1,91	5	180450630
Console C-45/45	735,0	1,42	0,61 ¹⁾	1,93 ¹⁾	2,17	5	180450735
Console C-45/45	1050,0	1,00	0,30 ¹⁾	0,75 ¹⁾	2,95	5	180451050

Console C-45/45 - profile rail 45/45/2,0

hot-dip galv

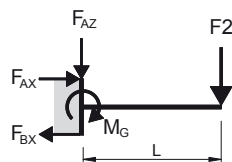
Console C-45/45	315,0	3,32	1,66	10,53	1,81	15	180450315/fvz
Console C-45/45	525,0	1,99	1,00	3,79	1,72	10	180450525/fvz

Loading condition 1 (LC1)



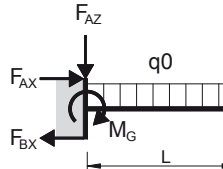
$$F_{AZ} = F1 \quad M_G = \frac{F1 \cdot L}{2}$$

Loading condition 2 (LC2)



$$F_{AZ} = F2 \quad M_G = F2 \cdot L$$

Loading condition 3 (LC3)

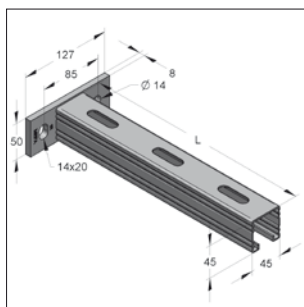


$$F_{AZ} = q0 \cdot L \quad M_G = \frac{q0 \cdot L^2}{2}$$

Remark:

all loads refer to static loads

■ Console C-profile 45/45/2,0 mm, plate horizontal



Console C 45/45/2,0 horizontal

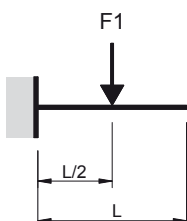
Technical data: galvanized

Material type profile rail:	S355J2, $f_y = 355 \text{ N/mm}^2$	Dimension plate:	127 x 50 x 8,0 mm
Material type plate:	S235JR, $f_y = 235 \text{ N/mm}^2$	Dimension profile rail:	45 x 45 x 2,0 mm
Material:	steel		
Surface:	galvanized		
Global safety coefficient γ :	1,35		

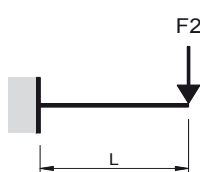
02

Identification	Length L [mm]	Loading condition 1 F1 [kN]	Max. load Loading condition 2 F2 [kN]	Loading condition 3 q0 [kN/m]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Console C-45/45	210,0	3,68	1,84	17,52	0,87	15	180460210
Console C-45/45	315,0	2,45	1,23	7,78	1,13	15	180460315
Console C-45/45	420,0	1,84	0,92	4,38	1,39	10	180460420
Console C-45/45	525,0	1,47	0,74	2,80	1,65	10	180460525

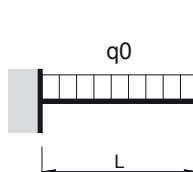
Loading condition 1 (LC1)



Loading condition 2 (LC2)



Loading condition 3 (LC3)

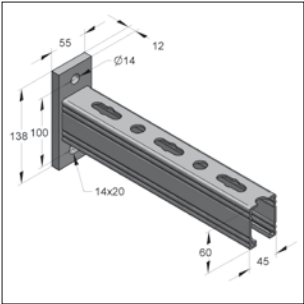


Remark:

all loads refer to static loads

■ Console C-profile 45/60/3,0 mm

02



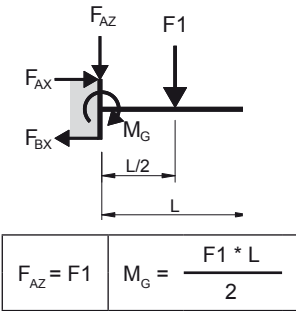
Console C 45/60/3,0 mm

Technical data:			
Material type plate:	S235JR, fy = 235 N/mm ²	Dimension plate:	138 x 55 x 12,0 mm
Material type profile rail:	S235JR, fy = 235 N/mm ²	Dimension profile rail:	45 x 60 x 3,0 mm
Surface:	galvanized		
Material:	steel		
Global safety coefficient γ:	1,35		
Limitation torquet	M _G :	1144,44	Nm
Reaction force	F _{AX} :	11,44	kN
Reaction force	F _{BX} :	11,44	kN
M _G , F _{AX} , F _{BX} on	LC1:	up to	L = 1155 mm
	LC2:	up to	L = 630 mm
	LC3:	up to	L = 840 mm

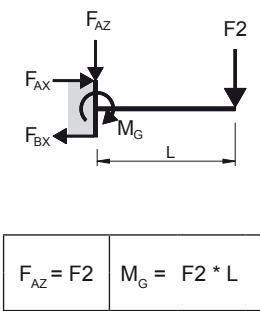
¹⁾load limitation due to admissible bending L/150. Limitation torque M_G and bearing strengths F_{AX}, F_{BX} not valid anymore

Identification	Max. load				Weight	Packing	Part-No.
	Length L [mm]	Loading condition 1	Loading condition 2	Loading condition 3			
		F1 [kN]	F2 [kN]	q0 [kN/m]			
Console C-45/60	525,0	4,36	2,18	8,30	2,78	5	18050525
Console C-45/60	630,0	3,63	1,82	5,77	3,20	5	18050630
Console C-45/60	735,0	3,11	1,45 ¹⁾	4,24	3,61	5	18050735
Console C-45/60	840,0	2,72	1,11 ¹⁾	3,24	4,02	5	18050840

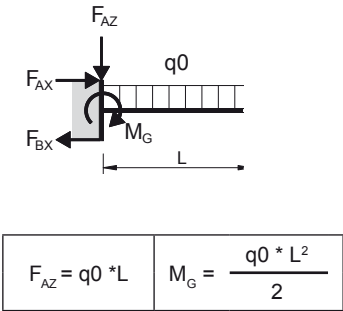
Loading condition 1 (LC1)



Loading condition 2 (LC2)

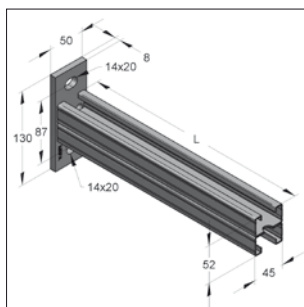


Loading condition 3 (LC3)



Remark:
all loads refer to static loads

Double console C-profile 45/52/1,5 mm



Double console C 45/52/1,5

Technical data:

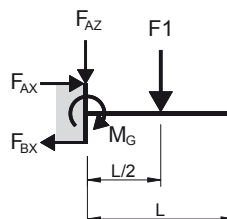
Material type plate:	S235JR, fy = 235 N/mm ²	Dimension plate:	130 x 50 x 8,0 mm
Material type profile rail:	S235JR, fy = 235 N/mm ²	Dimension profile rail:	45 x 52 x 1,5 mm
Surface:	galvanized		
Material:	steel		
Global safety coefficient γ:	1,35		

Limitation torquet	M _G :	461,54 Nm
Reaction force	F _{AX} :	5,31 kN
Reaction force	F _{BX} :	5,31 kN
M _G , F _{AX} , F _{BX} on	LC1:	up to L = 1155 mm
	LC2:	up to L = 735 mm
	LC3:	up to L = 945 mm

02

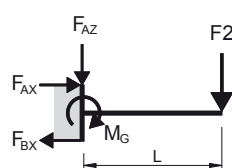
Identification	Length L [mm]	Loading condition 1 F1 [kN]	Max. load Loading condition 2 F2 [kN]	Loading condition 3 q0 [kN/m]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Console C-45/52 D	315,0	2,93	1,47	9,30	1,26	15	18070315
Console C-45/52 D	420,0	2,20	1,10	5,23	1,55	15	18070420
Console C-45/52 D	525,0	1,76	0,88	3,35	1,83	10	18070525
Console C-45/52 D	630,0	1,47	0,73	2,33	2,12	5	18070630

Loading condition 1 (LC1)



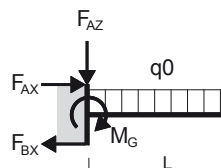
$$F_{AZ} = F1 \quad M_G = \frac{F1 * L}{2}$$

Loading condition 2 (LC2)



$$F_{AZ} = F2 \quad M_G = F2 * L$$

Loading condition 3 (LC3)

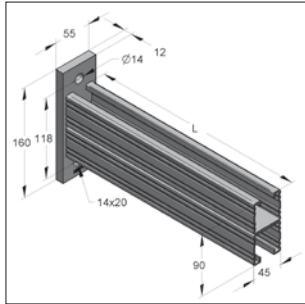


$$F_{AZ} = q0 * L \quad M_G = \frac{q0 * L^2}{2}$$

Remark:

all loads refer to static loads

Double console C-profile 45/90/2,0 mm



Double console C 45/90/2,0

Technical data: galvanized / hot-dip galv

Material: steel
Material type plate: S235JR
Material type profile rail: S235JR
Surface: galvanized / hot-dip galvanized
Global safety coefficient γ : 1,54

Limitation torquet M_G : 1564,12 Nm
Reaction force F_{AX} : 13,03 kN
Reaction force F_{BX} : 13,03 kN
 M_G, F_{AX}, F_{BX} on LC1: up to =1155 mm
LC2: up to =1155 mm
LC3: up to =1155 mm

Console D-45/90 - profile rail 45/90/2,0 D - plate 160 x 55 x 12,0 mm

galvanized

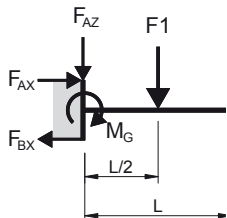
Identification	Length L [mm]	Loading condition 1 F1 [kN]	Max. load Loading condition 2 F2 [kN]	Loading condition 3 q0 [kN/m]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Console C-45/90 D	630,0	4,97	2,48	7,88	3,88	5	180900630
Console C-45/90 D	735,0	4,26	2,13	5,79	4,39	5	180900735
Console C-45/90 D	840,0	3,72	1,86	4,43	4,91	5	180900840
Console C-45/90 D	945,0	3,31	1,66	3,50	5,43	5	180900945
Console C-45/90 D	1050,0	2,98	1,49	2,84	5,95	5	180901050

Console D-45/90 - profile rail 45/90/2,0 D - plate 160 x 55 x 12,0 mm

hot-dip galv

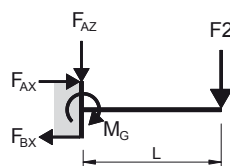
Console C-45/90 D	630,0	4,97	2,48	7,88	4,03	5	180900630/fvz
Console C-45/90 D	840,0	3,72	1,86	4,43	5,11	5	180900840/fvz

Loading condition 1 (LC1)



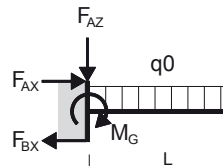
$$F_{AZ} = F1 \quad M_G = \frac{F1 * L}{2}$$

Loading condition 2 (LC2)



$$F_{AZ} = F2 \quad M_G = F2 * L$$

Loading condition 3 (LC3)

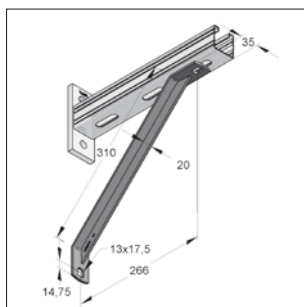


$$F_{AZ} = q0 * L \quad M_G = \frac{q0 * L^2}{2}$$

Remark:

all loads refer to static loads

■ Brace 45° T-profile



Brace 45° T-profile

Specification:

Applications area: to increase the loading capacity of consoles and wall brackets

Technical data:

Material: steel
Material type: S235JR
Surface: galvanized

02

Identification

Brace 45° T-profile

Weight
[kg/pc.]

Packing
[pcs.]

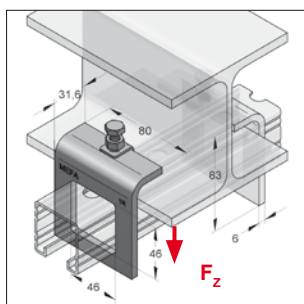
Part-No.

0,70

25

0815101

■ Clamping claw



Clamping claw

Specification:

Profile rail type: C-profile rail 45/45
Application area: for mounting of C-profile rail 45/45 on T-girder

Technical data:

Material: steel
Material type: S235JR
Surface: galvanized

Identification

max. load
with 2 clamping claws
 F_z
[kN]

tightening torque

max.
clamping thickness

Weight

Packing

Part-No.

Clamping claw 45/45

6,00

[Nm]

8

[mm]

17

[kg/pc.]

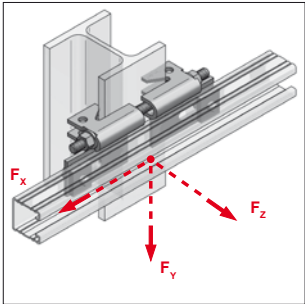
0,32

[pcs.]

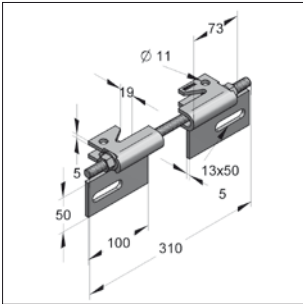
50

08165071

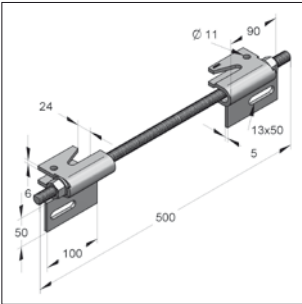
Girder connection vertical



Girder connection vertical



Typ D III



Typ D IV

Specification:

Applications area: vertical clamping connection of profile rails at steel girder

Recommended accessory: 2 x guide cleat
1 x threaded rod
2 x nut
2 x washer

Technical data:

Material: steel
Material type: S235JR (clamps)

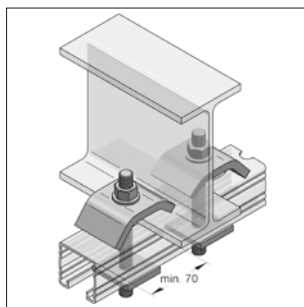
Surface
- Clamps: hot-dip galv.
- Screw connection: zinc-nickel

Mounting instruction: fix buttstraps on load anticipated side. Can be combined with rail system 45. Screwing of profile rail on buttstrap of guide cleat thru profile base with 2 screws M12 x 25, washers and threaded square plates or tooth plate

Identification	Clamping-thickness Flange [mm]	Clamping-range Flange [mm]	Threaded rod [mm]	Tightening torque [Nm]	Max. load			Weight [kg/Set]	Packing [pcs.]	Part-No.
					F_x [kN]	F_y [kN]	F_z [kN]			
Typ D III	8-15	100-220	M12 x 310	64	4,0	4,0	4,0	1,10	1	08146103
Typ D IV	13-20	110-360	M16 x 500	64	4,0	4,0	4,0	1,99	1	08146104

mounting recommendation see chapter 15

■ Clamping claw (set) steel



Clamping claw (set) steel

Specification:

Profile rail type: rail system 35, 45, Stex 35
Application area: for mounting of C-profile rail on steel girder

Technical data:

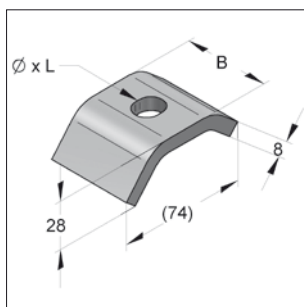
Material: steel
Material type: S235JR
Surface: galvanized

Assembly kit consisting of:

2 clamping claws
2 threaded bolts
4 hexagon nuts
2 perforated plates
2 washers DIN 7089

Identification	threaded pin [mm]	max. profile height [mm]	max. clamping thickness [mm]	Weight [kg/set]	Packing [sets]	Part-No.
Clamping claw (set) steel 35	M10 x 110	42	26	0,51	20	0814595
Clamping claw (set) steel 45	M12 x 130	60	26	0,88	10	0819527

■ Clamping claw



Clamping claw

Specification:

without accessories

Technical data:

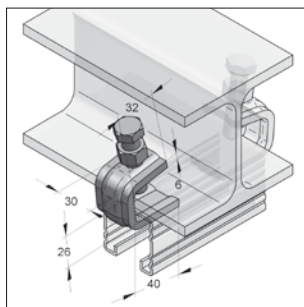
Material: steel
Material type: S235JR
Surface: galvanized¹⁾

¹⁾ Components for outdoor application also available with Zinc-Nickel-coating (corrosion-protection class C3 acc. to ISO 9223). Delivery time on demand!

²⁾ loads referring to component, not to connection

Identification	Dimension Ø x L [mm]	suitable for threaded rod	tightening torque [Nm]	max. load ²⁾ [kN]	B [mm]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Clamping claws (IB 458)	12 x 18	M10	5	6,7	35	0,170	20	0814591
Clamping claws (IB 651)	14 x 18	M12	5	8,2	50	0,230	20	0816515
Clamping claws (IB 951)	Ø 18	M16	10	11,9	50	0,225	20	0819519

■ Rail clamp



Rail clamp

Specification:

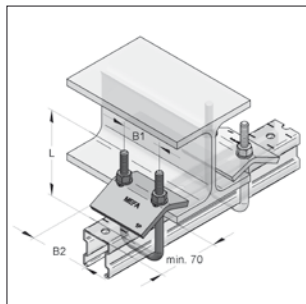
Profile rail type: rail system 35/21, 45/45, Stex 35/35, 35/42
Application area: for mounting the C-profile rail on steel girder
Assembly instruction: pre-stressing 8 Nm
requiring counter nuts, if necessary
max. clamping thickness 23 mm

Technical data:

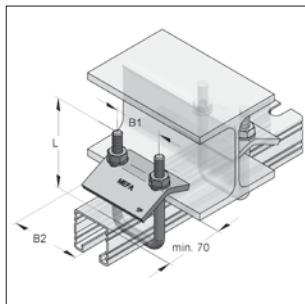
Material type: St 44-2
Surface: galvanized
hexagonal nut: M12, SW19
hexagonal screw: M12x50, SW19 with cup point

Identification	max. load [kN]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Rail clamp	5,0	0,217	25	0816477

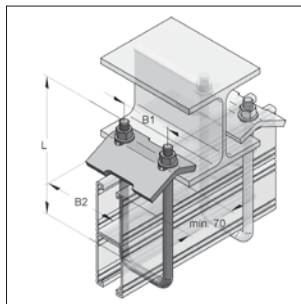
Clamping bow



Clamping bow M8 35



Clamping bow M10 45/60



Clamping bow M12 45/150

Specification:

Profile rail type: rail system 35, 45, Stex 35
Application area: for mounting of C-profile rail on steel girder

Clamping bow consisting of:

1 U-bolt pipe hanger
1 tensioning bracket
2 nuts DIN 4032
2 serrated lock washer

Technical data:

Material: steel
Material type: St 36 FK 4.6
Surface: galvanized

Remark: - in case of horizontal mounting of pipes, the maximum loads of the clamping bow can differ to quoted loads due to torque of lever arm
- per anchorage point two clamping bows should be plugged in
- application loads refer to clamping bow
- application loads of C-profile rail should be noticed

Suitable for profile rail 35 and STEX 35

Identification	L [mm]	B1 [mm]	recommended tightening torque [Nm]	max. B2 [mm]	recommended clamping thickness [mm]	max. load [kN]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Clamping bow M8 35	100	48	8	70	26	3,5	0,27	20	0816710

Suitable for profile rail 45/45, 45/60

Clamping bow M10 45/60	100	56	15	80	26	4,0	0,36	20	0816720
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Suitable for profile rail 45/75, 45/90

Clamping bow M10 45/90	140	56	15	80	26	4,0	0,47	20	0816730
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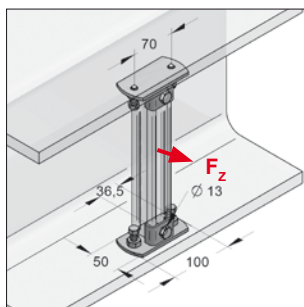
Suitable for profile rail 45/75, 45/90

Clamping bow M12 45/90	140	59	30	100	24	7,0	0,85	10	08167401
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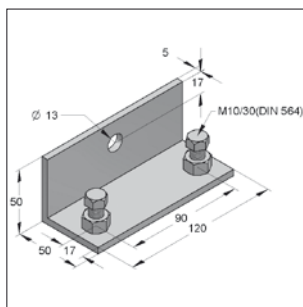
Suitable for profile rail 45/120, 45/150

Clamping bow M12 45/150	210	59	30	100	29	7,0	0,96	10	08167501
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■ Girder clamping



Girder clamping 35



Girder clamping L 45

Max. load on girders at a length of ≤ 400 mm

Identification	in combination with profile rail	max. load F_z [kN]
Girder clamping 35	35/21	2,0
Girder clamping 35	Stex 35/35	2,0
Girder clamping 35	Stex 35/42	3,0
Girder clamping L 45	45/45	3,0

02

Specification:

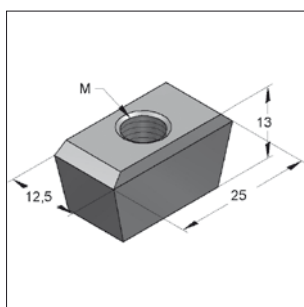
Profile rail type: 35/21, Stex 35/35, Stex 35/42, 45/45
 Application area: for clamped fixation at steel girder from IPE 120 or U 160
 Assembly instruction: tightening torque min. 25 Nm
 Recommended accessory: threaded square plate 35x30

Technical data:

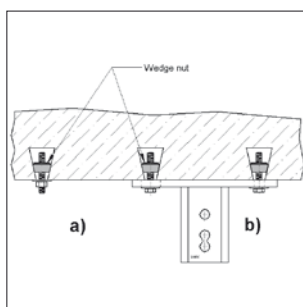
Material: steel
 Material type: S235JR
 Surface: galvanized

Identification	for profile rail	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Girder clamping 35	35/21, Stex 35/35, Stex 35/42	0,29	20	9999695
Girder clamping L 45	45/45	0,37	20	08163909

■ Wedge nut for ceiling



Wedge nut for ceiling



Fixed under ceiling

Assembly instruction:

Illustration a): single mounting

- 1 wedge nut for ceiling
- 1 threaded bolt M8 or M10 (min. length 50 mm)
- 1 washer DIN 7089 (8,4 or 10,5) M8 or M10
- 1 hexagon nut M8 or M10

Illustration b): mounting of ceiling holder

- 1 holder for C-profile rail. Plate 200 x 200
- 4 wedge nut for ceiling (M8 or M10)
- 4 hexagon screw, galvanized (M8 x 50 or M10 x 50)
- 2 washer DIN 7089 (8,4 or 10,5)

Specification:

Application area: for ceiling 38 / 51 x 150
 type „HOLORIB“ and „HOESCH“

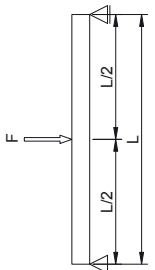
Technical data:

Material: GTW
 Surface: galvanized

Identification	max. load [kN]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Wedge nut, female thread M8	3,66	0,018	100	0819715
Wedge nut, female thread M10	5,80	0,020	100	0819722

Loads of profile rails, galvanized: maximum loads for 1 x F

Calculation according to RAL-GZ 655-C Safety $\chi = 1,54$ max. bending $\delta_{zul} = L/200$ module of elasticity $E = 210000 \text{ N/mm}^2$	Surface property fbv: pre-galvanized fsv: hot-dip galvanized
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Loads of profile rails, galvanized: maximum loads for 2 x F

		System 35				System 45 (toothed)																						
		35/20/0,8	35/21/2,0	35/35/1,0	35/42/1,5		45/26/1,5	45/45/1,5	45/45/2,0	45/45/2,5	45/45/2,5	45/45/2,5	45/60/3,0	45/60/3,0	45/60/3,0	45/75/3,0	45/75/3,0	45/75/3,0	45/52/1,5 D	45/90/1,5 D	45/90/2,0 D	45/90/2,5 D	45/90/2,5 D	45/120/3,0 D	45/120/3,0 D	45/150/3,0 D	45/150/3,0 D	
Surface	fbv	[kN]	fbv	[kN]	fbv	[kN]	fbv	[kN]	fbv	[kN]	fsv	[kN]	fbv	[kN]	fsv	[kN]	fbv	[kN]	fbv	[kN]	fbv	[kN]	fsv	[kN]	fbv	[kN]	fsv	[kN]
F																												
L																												
[mm]																												
250	0,19	0,60	0,76	1,38	2,03	3,64	2,07	5,28	6,79	7,41	6,96	12,05	11,33	18,19	17,10	3,97	10,05	12,97	16,47	16,47	10,05	10,05	10,05	10,05	8,11	8,11	8,11	
500		0,30	0,38	0,69	1,02	1,82	1,03	2,64	3,40	3,71	3,48	6,02	5,66	9,10	8,55	3,07	7,78	9,99	12,04	12,04	10,05	10,05	10,05	10,05	8,11	8,11	8,11	
750		0,15	0,21	0,42	0,68	1,21	0,69	1,76	2,27	2,47	2,32	4,02	3,78	6,06	5,70	2,05	5,19	6,66	8,03	8,03	10,05	10,05	10,05	10,05	8,11	8,11	8,11	
1000			0,12	0,24	0,51	0,91	0,42	1,32	1,70	1,86	1,74	3,01	2,83	4,55	4,28	1,53	3,89	5,00	6,02	6,02	9,72	9,14	8,11	8,11	8,11	8,11	8,11	
1250				0,15	0,35	0,73	0,27	1,06	1,36	1,49	1,40	2,41	2,27	3,64	3,42	1,23	3,11	4,00	4,82	4,82	7,78	7,31	8,11	8,11	8,11	8,11	8,11	
1500				0,11	0,24	0,55	0,19	0,81	1,03	1,16	1,16	2,01	1,89	3,03	2,85	1,02	2,60	3,33	4,02	4,02	6,48	6,09	8,11	8,11	8,11	8,11	8,11	
1750					0,18	0,40	0,14	0,60	0,76	0,86	0,86	1,72	1,62	2,60	2,44	0,79	2,23	2,86	3,44	3,44	5,55	5,22	8,11	8,11	8,11	8,11	8,11	
2000					0,14	0,31	0,11	0,46	0,58	0,66	0,66	1,38	1,38	2,27	2,14	0,61	1,95	2,50	3,01	3,01	4,86	4,57	7,57	7,12	7,12	7,12	7,12	
2250					0,11	0,24		0,36	0,46	0,52	0,52	1,09	1,09	2,02	1,90	0,48	1,73	2,22	2,68	2,68	4,32	4,06	6,73	6,33	6,33	6,33	6,33	
2500						0,20		0,30	0,37	0,42	0,42	0,88	0,88	1,82	1,71	0,39	1,56	2,00	2,41	2,41	3,89	3,65	6,06	5,69	5,69	5,69	5,69	
2750						0,16		0,24	0,31	0,35	0,35	0,73	0,73	1,65	1,55	0,32	1,41	1,81	2,18	2,18	3,53	3,32	5,51	5,18	5,18	5,18	5,18	
3000						0,14		0,21	0,26	0,29	0,29	0,61	0,61	1,44	1,43	0,27	1,19	1,52	1,83	1,83	3,24	3,05	5,05	4,75	4,75	4,75	4,75	
3250						0,12		0,18	0,22	0,25	0,25	0,52	0,52	1,23	1,23	0,23	1,01	1,30	1,56	1,56	2,99	2,81	4,66	4,38	4,38	4,38	4,38	
3500						0,10		0,15	0,19	0,22	0,22	0,45	0,45	1,06	1,06	0,20	0,87	1,12	1,35	1,35	2,78	2,61	4,33	4,07	4,07	4,07	4,07	
3750								0,13	0,17	0,19	0,19	0,39	0,39	0,92	0,92	0,17	0,76	0,98	1,17	1,17	2,52	2,44	4,04	3,80	3,80	3,80	3,80	
4000								0,12	0,15	0,17	0,17	0,35	0,35	0,81	0,81	0,15	0,67	0,86	1,03	1,03	2,21	2,21	3,79	3,56	3,56	3,56	3,56	
4250								0,11	0,13	0,15	0,15	0,31	0,31	0,72	0,72	0,13	0,59	0,76	0,92	0,92	1,96	1,96	3,56	3,35	3,35	3,35	3,35	
4500									0,12	0,13	0,13	0,27	0,27	0,64	0,64	0,12	0,53	0,68	0,82	0,82	1,75	1,75	3,37	3,16	3,16	3,16	3,16	
4750									0,11	0,12	0,12	0,24	0,24	0,58	0,58	0,11	0,48	0,61	0,73	0,73	1,57	1,57	3,19	3,00	3,00	3,00	3,00	
5000									0,10	0,11	0,11	0,22	0,22	0,52	0,52	0,10	0,43	0,55	0,66	0,66	1,42	1,42	3,03	2,85	2,85	2,85	2,85	
5250										0,10	0,10	0,20	0,20	0,47	0,47		0,39	0,50	0,60	0,60	1,29	1,29	2,88	2,71	2,71	2,71	2,71	
5500												0,18	0,18	0,43	0,43		0,36	0,46	0,55	0,55	1,17	1,17	2,75	2,59	2,59	2,59	2,59	
5750												0,17	0,17	0,39	0,39		0,33	0,42	0,50	0,50	1,07	1,07	2,59	2,48	2,48	2,48	2,48	
6000												0,15	0,15	0,36	0,36		0,30	0,38	0,46	0,46	0,98	0,98	2,38	2,37	2,37	2,37	2,37	

