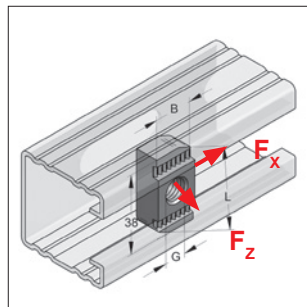


Tooth plate S



Tooth plate S


Specification:

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

Technical data:

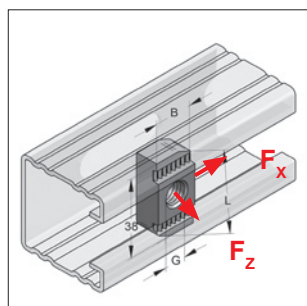
Material: steel
 Material type: S235JR
 Surface: galvanized

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	34 x 21	M6*	0,053	100	0818000
Tooth plate S	36 x 20	M8*	0,044	100	081810102
Tooth plate S	36 x 20	M10	0,058	100	0818102
Tooth plate S	36 x 20	M12	0,056	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
 Application 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:

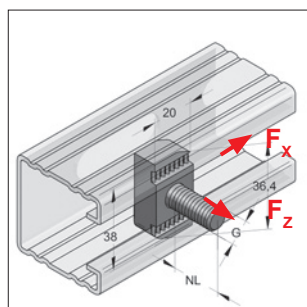
Material: steel
 Material type: S235JR
 Surface: zinc-nickel

application loads see on page 2/27

* not certified acc. to RAL

Identification	Dimension L x W [mm]	Thread G	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Tooth plate S zinc-nickel	36 x 20	M8*	0,060	100	0818101/zn
Tooth plate S zinc-nickel	36 x 20	M10	0,058	100	0818102/zn
Tooth plate S zinc-nickel	36 x 20	M12	0,056	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
 Application area: connecting parts, pipe clamp fixation
 Required accessory: washer and hexagon nut

Technical data:

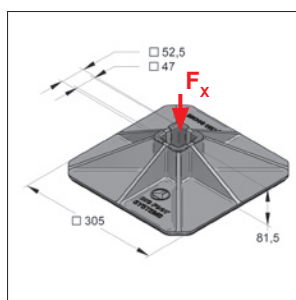
Material: steel
 Material type: S235JR
 Surface: galvanized
 Tooth bolt: property class 8.8

application loads see on page 2/27

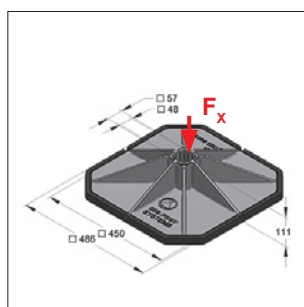
* not certified acc. to RAL

Identification	Usable length NL [mm]	Thread G	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Tooth bolt	17,5	M8*	0,072	100	0816936
Tooth bolt	17,5	M10	0,076	100	0816944
Tooth bolt	22,5	M12	0,085	100	0816952

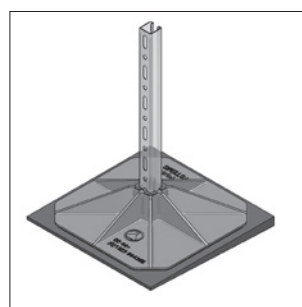
■ Rooftop holder BIG FOOT®



Rooftop holder Big Foot® 305 mm
complete



Rooftop holder Big Foot® 450 mm
complete



Rooftop holder Big Foot®
with rubber wedge

Specification:

Profile rail type: 45/45
Application area: for profile channel constructions onto rooftop
Installation advise: The rubber wedge can also be placed underneath to compensate for the roof pitch (up to 2,5° resp. 4,0°).
The separation fleece is preventing from damage of roofing (membrane) through softening agents.
Adaptor to accommodate rail system 45.
recommended for use on PVC membrane roof surfaces to prevent migration of plasticizer.

Separation fleece:

Rooftop holder complete
consists of:

1 x feet (305 mm)
1 x adapter for rail system 45

1 x feet (450 mm)
1 x rubber pad
1 x adapter for rail system 45

Technical data:

Material
holder feet: polyamide 6
rubber pad: EPDM
rubber wedge: EPDM
separation fleece: polyester
temperature-resistance: -40°C up to +80°C

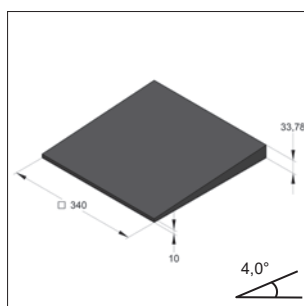
* Permissible floor load has to be checked by the customer. Wind and snow loads must be considered separately.

Big Foot® 305

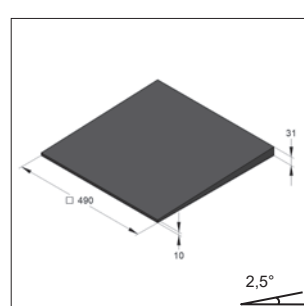
Identification	Dimension holder feet	Dimension rubber pad L x B	Load* F_x	Weight	Packing	Part-No.
	[mm]	[mm]	[kN]	[kg/pc.]	[pcs.]	
Big Foot® complete 305	305 x 305	330 x 330	3,0	1,44	2	08197606
Big Foot® rubber wedge 305 4,0°	-	340 x 340	-	2,25	1	08197604
Big Foot® fleece 305	-	345 x 345	-	0,03	1	08197603

Big Foot® 450

Big Foot® complete 450	450 x 450	486 x 486	5,0	6,00	2	08197610
Big Foot® rubber wedge 450 2,5°	-	490 x 490	-	4,47	1	08197617
Big Foot® fleece 450	-	492 x 492	-	0,06	1	08197613

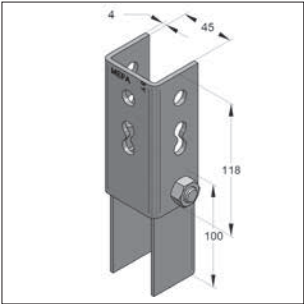


Rubber wedge 305 mm
4,0°

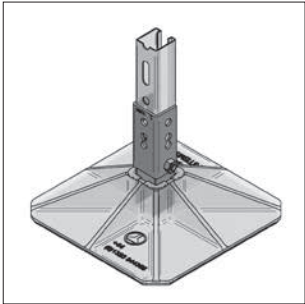


Rubber wedge 450 mm
2,5°

Joint adapter for Big FOOT® 305



Joint adapter for Big Foot® 305



Assembly

Specification:
Profile rail type: 45
Installation advise: For compensating the roof pitch.
Joint adapter is inserted into the rooftop holder for installation.

Technical data:
Material steel
Material name: S235JR
Surface screw: zinc-nickel

Identification	Weight	Packing	Part-No.
	[kg/pc.]	[pcs.]	
Joint adapter for Big Foot® 305	0,83	1	08197619/zn

Rooftop Multi Support



Rooftop Multi Support

Specification:
Application area: For easy fixing of devices and ventilation lines and -ducts on flat roofs or direct fixing of devices.
Recessed aluminum rail (40 x 20 mm) allows easy assembly while at the same time damping structure-borne noise.

Installation advise: The Rooftop Multi Support can be screwed on as a base for rail holders or ventilation devices. To prevent larger devices from tipping over, two Rooftop Multi Supporter can be used on each side.

Separation fleece: recommended for use on PVC membrane roof surfaces to prevent migration of plasticizer.
The Big Foot® Separation fleece 450 (Part-No. 08197613) is sufficient for two Rooftop Multi Supporter.

Technical data:
Material
holder: recycled, UV-resistant rubber SBR
rail: aluminum

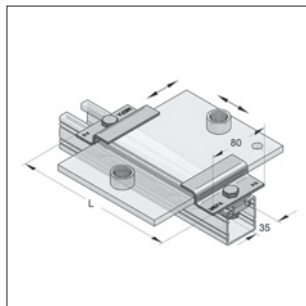
temperature-resistance: -40°C up to +80°C

Recommended accessories: Tooth plate S with zinc-nickel coating

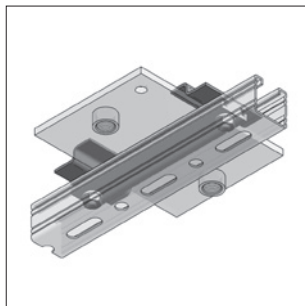
* Permissible floor load has to be checked by the customer. Wind and snow loads must be considered separately.

Identification	Dimension [mm]	Load* F _z [kN]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Rooftop Multi Support	400 x 180 x 95	1,28	3,50	1	08197620

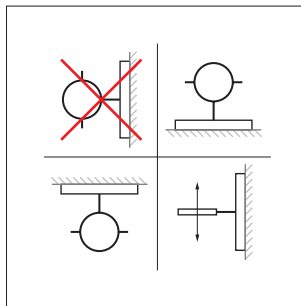
■ Sliding element radial-axial



Sliding element radial-axial
with sliding plate
(standing installation)



Sliding element radial-axial
with sliding plate
(hanging installation)



Assembly instruction

Specification:

Profile rail type: C-profile 45 mm

Application area:

- absorption of radial and axial length expansion
- for standing, hanging and vertical installed pipes
- not suitable for lateral passed pipes

Technical data:

Material sliding element: steel
Material type sliding element: S235JR
Surface sliding element: galvanized

Material sliding stripe: polyamide 6
Static friction factor: 0,2 - 0,3
Thermal load: -30 °C up to + 110 °C

Identification	Size	Type	L [mm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
Sliding element radial-axial I		for sliding plates 100 mm wide	163	0,391	1	0779971
Sliding element radial-axial II		for sliding plates 150 mm wide	213	0,415	1	0779972
Sliding element radial-axial III		for sliding plates 200 mm wide	263	0,331	1	077997301

■ Duct sealing tape



Duct sealing tape

Specification:

Application
area: Sealing of ventilation ducts
Attributes: - onesided self-adhesive
- no triangular bond
- chemical and weather proofed
- no pull-off foil
- building material class B2 (acc. DIN 4102)

Technical data:

Material: cell closed PE
Bulk density: approx. 33 kg/ m³ (according to 54320)
Tensile strength: 0,42 N/mm² (according to 53571)
Shelf life: 1 year (at + 18 °C)
Temperature resistance: - 30 °C up to + 80 °C
Processing temperature: min. + 5 °C

Identification [mm]	Width [mm]	Insulation thickness [mm]	Length [m]	Packing [rolls]	Part-No.
Duct sealing tape 9x4	9	4	20	5	725110904
Duct sealing tape 12x4	12	4	20	5	725111204
Duct sealing tape 15x4	15	4	20	5	725111504
Duct sealing tape 12x6	12	6	10	5	725111206

■ Duct sealing compound



Duct sealing compound

Specification:

Application
area: Sealing of ventilation shafts
Attributes: - sealing of ventilation ducts and similar components
- special sealing compound on dispersion base
- solvent-free
- suitable for canteen kitchen exhaust ducts

Technical data:

Colour: silver gray
Processing temperature: + 5 °C up to + 50 °C
Temperature resistance: - 20 °C up to + 80 °C
Shelf life, unopened: approx. 18 months
at an stock temperature: + 5 °C up to + 25 °C

Identification	Capacity [ml]	Packaging	Packing [pcs.]	Part-No.
Duct sealing compound	310	cartridge	20	725100310

■ Cold shrink tape



Cold shrink tape

Specification:

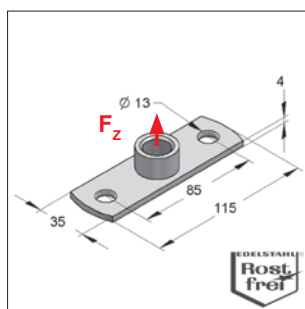
Application
area: sealing of ventilation ducts and folded spiral-seam pipe
Colour: grey
Attributes: - cold self-adhesive butyl rubber glue
- coated with a stretchy PE foil

Technical data:

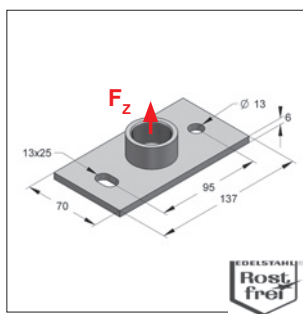
Adhesive power of steel during detach 90°: approx. 9 N/cm²
Adhesive power of concrete during detach 90°: approx. 9 N/cm²
Water vapour permeability: approx. 4 g/m²/24h
Temperature resistance: - 30 °C up to + 80 °C
Processing temperature: + 5 °C up to + 40 °C

Identification	Width [mm]	Length [m]	Packing [rolls]	Part-No.
Cold shrink tape	50	15	1	725120050
Cold shrink tape	75	15	1	725120070
Cold shrink tape	100	15	1	725120100

■ Base plates



Base plate type I



Base plate type III

Specification:

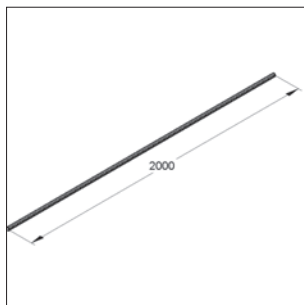
Application area: Plates with threaded connection suitable for mounting on structure or profile rails.
Applicable for pipe clamp connections via threaded pin/- rod or threaded pipe

Technical data:

Material: stainless steel
Material type: V4A
V2A

Identification	Dimension plate			Load F_z [kN]	Weight [kg/pc.]	Packing [pc.]	V4A	V2A
	length [mm]	width [mm]	thickness [mm]				Part-No.	Part-No.
Base plate type I / M8	115	35	4	1,35	0,125	1	0598479	0599479
Base plate type I / M10	115	35	4	1,35	0,132	1	0598495	0599495
Base plate type I / M12	115	35	4	1,35	0,137	1	0598061	0599061
Base plate type I / M16	115	35	4	1,35	0,159	1	0598088	0599088
Base plate type I / 1/2"	115	35	4	1,35	0,154	1	0598045	0599045
Base plate type III / 1/2"	137	70	6	5,90	0,485	1	0598702	0599702
Base plate type III / 3/4"	137	70	6	5,90	0,498	1	0598703	0599703
Base plate type III / 1"	137	70	6	5,90	0,532	1	0598700	0599700

Threaded pipe



Threaded pipe

Specification:

Version: Tube with male thread

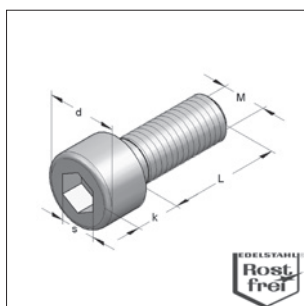
Technical data:

Material: stainless steel

Material type: V4A

Identification	Thread	Length [mm]	Weight [kg/pc.]	Packing [m]	V4A Part-No.
Threaded pipe	1/2"	2000	2,300	20	0737002A4
Threaded pipe	1"	2000	4,594	10	0737004A4

Allen head cap screw, DIN EN ISO 4762



Allen head screw

Specification:

With hexagon socket

According to DIN EN ISO 4762

Thread: M8, M10, M12

Length: 20 up to 30 mm

Technical data:

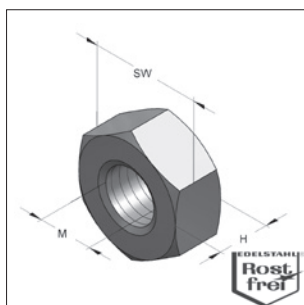
Material: stainless steel

Material type: V4A

V2A

Identification	Thread M	L [mm]	d [mm]	k [mm]	s [mm]	Weight [kg/pc.]	Packing [pcs.]	Part-No.	Part-No.
Allen head screw	M8	20	13	8	6	0,016	200	3445220	3445201
Allen head screw	M10	30	16	10	8	0,033	50	3445230	3445231
Allen head screw	M12	25	18	12	10	0,043	50	3445225	3445226

Hexagon nut, DIN EN ISO 4032



Hexagon nut

Specification:

According to DIN EN ISO 4032

Thread: M6, M8, M10, M12, M16

Wrench size: 10, 13, 17, 19, 24

Technical data:

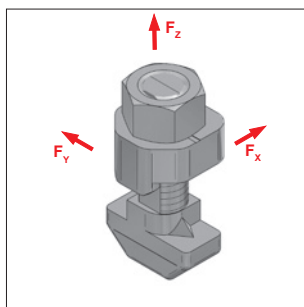
Material: stainless steel

Material type: V4A

V2A

Hexagon nut						V4A	V2A
Identification	Thread M	Height [mm]	Wrench size SW	Weight [kg/pc.]	Packing [pcs.]	Part-No.	Part-No.
Hexagon nut	M6	5,0	10	0,003	100	4128006	4128106
Hexagon nut	M8	6,5	13	0,005	100	4128108	4128008
Hexagon nut	M10	8,0	17	0,013	100	4128110	4128010
Hexagon nut	M12	10,0	19	0,017	100	4128112	4128012
Hexagon nut	M16	13,0	24	0,040	100	4128116	4128016

CENTUM® T-lock plus



CENTUM® T-lock plus

Specification:

For profile type: XL 80, XL 100, XL 120 and XL 200
 Features: Immovable and form-locking connection
 Load: F_x F_y F_z
 XL 80: 8 kN 8kN 3kN
 from XL 100: 10 kN 10kN 3kN
 Safety γ : 2
 Application: C-profile connector (at hole $\varnothing \geq 14$ mm)

Technical data:

Material: steel
 Surface: zinc-nickel

Identification	Property class	Tightening torque [Nm]		Weight [kg/pc.]	Packing [pcs.]	Part-No.
CENTUM® T-lock plus M12 x 40	10.9	XL 80 90	from XL 100 120	0,113	50	1610011001

CENTUM® T-lock plus

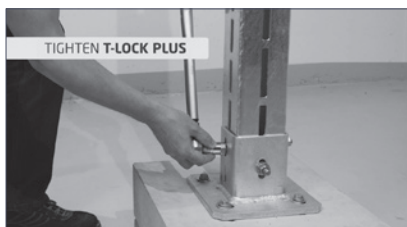


Insert T-lock plus through component and profile, position as required.



Tilt T-lock plus forward, so that guide wedge of Lock washer snaps in elongated hole. Then tighten by screwing the nut (hand-tight).

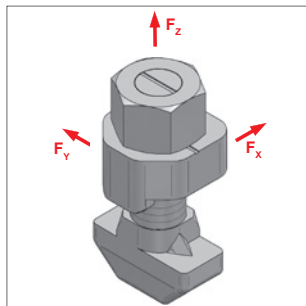
Fixation:



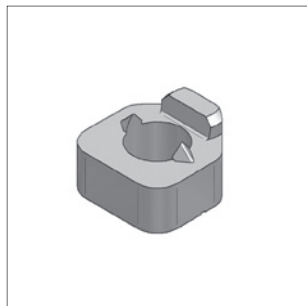
Wrench size 19 mm.
Recommended torque XL 80: 90 Nm.
Recommended torque XL 100: 120 Nm.

T-lock plus must not be used again after dismantling.

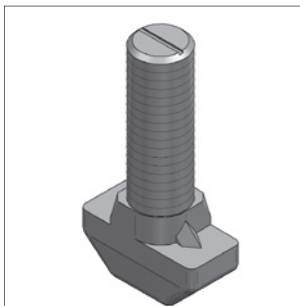
CENTUM® T-lock



CENTUM® T-lock



CENTUM® Lock washer



CENTUM® T-lock bolt



Specification:

For profile type: XL 80, XL 100, XL 120 and XL 200
 Features: Immovable and form-locking connection
 Load: F_x F_y F_z
 XL 80: 8 kN 8kN 3kN
 from XL 100: 10 kN 10kN 3kN
 Safety γ : 2
 Application: C-profile connector (at hole $\varnothing \geq 14$ mm)

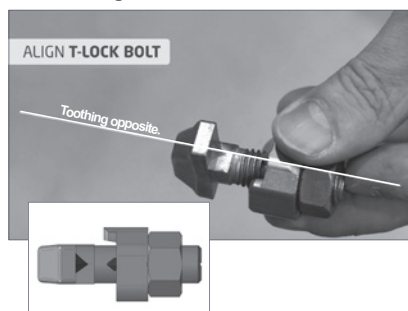
Technical data:

Material: steel
 Surface: zinc-nickel

Identification	Property class	Tightening torque [Nm]		Weight [kg/pc.]	Packing [pcs.]	Part-No.
		XL 80	from XL 100			
CENTUM® T-lock M12x40	10.9	90	120	0,120	50	1610011000
consisting of:						
CENTUM® Lock washer	10	--	--	0,031	100	1610019000/zn
CENTUM® T-lock bolt	10.9	90	120	0,064	50	1610012100/zn
CENTUM® hex nut M12 FK10, DIN EN ISO 4032	10	--	--	0,017	100	8989995/zn

Assembly instruction for CENTUM® T-lock

Positioning:



Insert T-lock through component and profile, position as required.

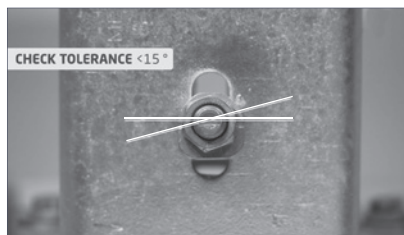


Turn T-lock 90° (marking notch stands diagonally to the elongated hole).

Adjustment:



Tilt forward T-lock, so that guide wedge of Lock washer snaps in elongated hole. Then tighten by screwing the nut (hand-tight).



Fixation:



Wrench size 19 mm.
Recommended torque XL 80: 90 Nm.
Recommended torque XL 100: 120 Nm.
 T-lock must not be used again after dismantling.