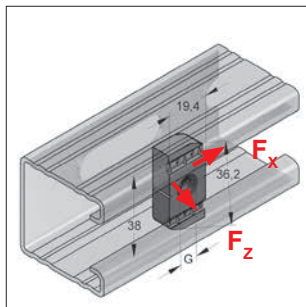


Tooth plate S



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:

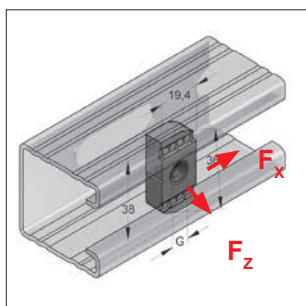
Material: steel
 Material type: S235JR
 Surface: galvanized

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*	0,044	100	081810202
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:

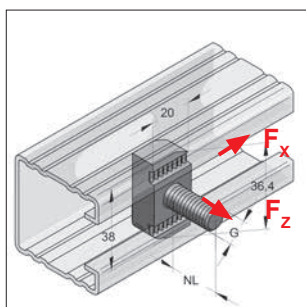
Material: steel
 Material type: S235JR
 Surface: zinc-nickel

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*	0,045	100	081810102/zn
Tooth plate S zinc-nickel	36 x 20	M10*	0,044	100	081810202/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

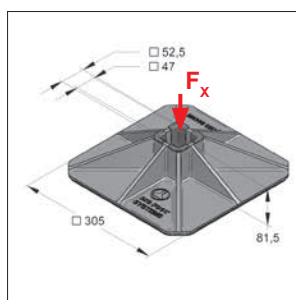
application loads see on page 2/27

* not certified acc. to RAL

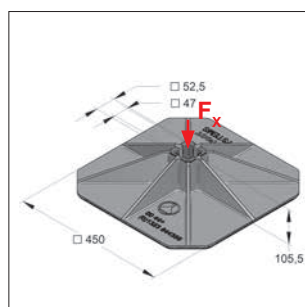
Identification	Usable length NL [mm]	Thread G	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Tooth bolt	17,5	M8*	0,072	100	0816936
Tooth bolt	17,5	M10*	0,076	100	0816944
Tooth bolt	22,5	M12	0,085	100	0816952

■ Rooftop holder BIG FOOT®

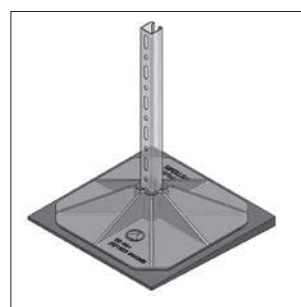
02



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 on rooftops
e.g. for ventilation ducts, roof racks

Specification: BIG FOOT® with bonded EPDM underlay

Recommended accessories: Separating fleece as additional protection for the roof cladding.
Wedges are available to equalise roof pitches.

Rooftop holder complete consists of:

- 1 x feet
- 1 x adapter for rail system 45

Technical data:

Material: polyamide 6
holder feet: EPDM
Underlay: polyester
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.

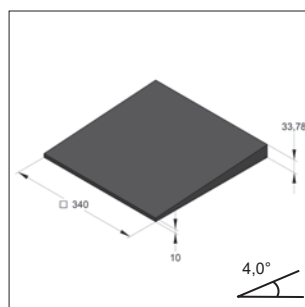
BIG FOOT® 305

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

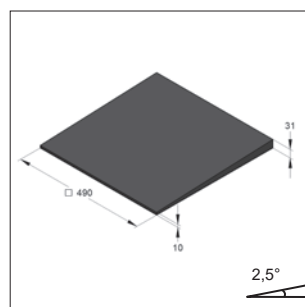
BIG FOOT® 450

BIG FOOT® complete 450	450 x 450	486 x 486	5,0	3,51	2	08197609
BIG FOOT® fleece 450	-	492 x 492	-	0,06	1	08197613

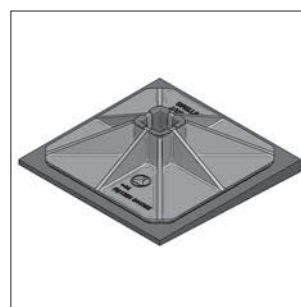
■ Universal wedge



Universal wedge 340x 340 4,0°



Universal wedge 490x 490 2,5°



Mounting example

Specification:

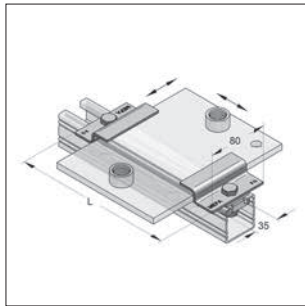
Application area: To equalise roof pitches.

Technical data:

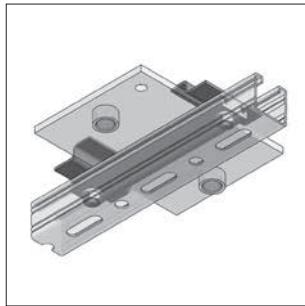
Material: EPDM
temperature resistance: -40°C up to +80°C

Identification	Dimension L x B	suitable for	Inclination	Weight [kg/pc.]	VPE [pcs.]	Part-No.
Universal wedge 340x 340 4,0°	340 x 340	BIG FOOT® 305	4°	2,25	1	08197604
Universal wedge 490x 490 2,5°	490 x 490	BIG FOOT® 450	2,5°	4,47	1	08197617

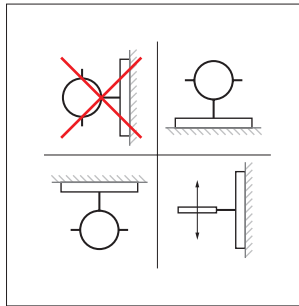
Sliding element radial-axial



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

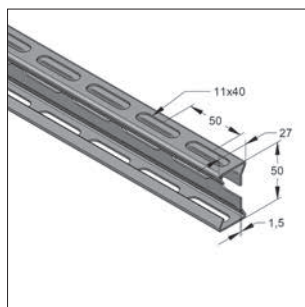
Technical data:

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

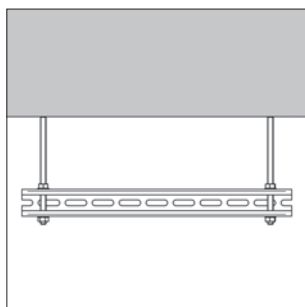
Material sliding stripe: polyamide 6
Static friction factor: 0,2 - 0,3
Thermal load: -30 °C up to + 110 °C

Identification	Size	Type	L [mm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
Sliding element radial-axial I		for sliding plates 100 mm wide	163	0,294	1	077997101
Sliding element radial-axial II		for sliding plates 150 mm wide	213	0,312	1	077997201
Sliding element radial-axial III		for sliding plates 200 mm wide	263	0,331	1	077997301

SIGNUM LP50



SIGNUM LP50



Threaded rod suspension

technical overview of profile rails see on page 2/65

Specification:

Profile rail type: C-profile rail

Application area: Upright installation only.

The support surface for ventilation ducts is the narrow side.

Technical data:

Material: steel

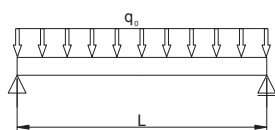
Material type: S250

Surface: pre-galvanized

Identification	Corrosion protection	Length [m]	Width [mm]	Height [mm]	Weight [kg/m]	Bundle [m]	Part-No.
27/50/1,5	pre-galvanized	2,0	27	50	1,07	216	0800201
27/50/1,5	pre-galvanized	6,0	27	50	1,07	576	0800202

Load values for mounting rail SIGNUM LP50 galvanized: Permissible loads for line load

L	q ₀
[mm]	[kN/m]
250	41,76
500	10,44
750	4,64
1000	2,60
1250	1,67
1500	1,15
1750	0,75
2000	0,50
2250	0,35
2500	0,25
2750	0,19
3000	0,14
3250	0,11
3500	-
3750	-
4000	-



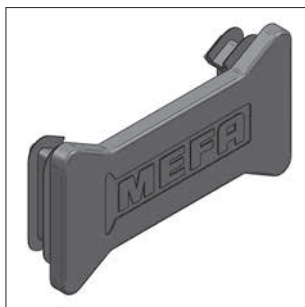
Calculation according to RAL-GZ 655-C

Safety $\chi = 1,54$
 max. bending $\delta_{zul} = L/200$
 module of elasticity $E = 210000 \text{ N/mm}^2$

Notice:

All load specifications refer exclusively to static loads.

SIGNUM protecting cap LP50



SIGNUM protecting cap LP50

Specification:

Profile rail type: SIGNUM LP50

Technical data:Material type: plastic PE
Material color: black

Identification

SIGNUM protecting cap LP50

Weight
[kg/pc.]

0,004

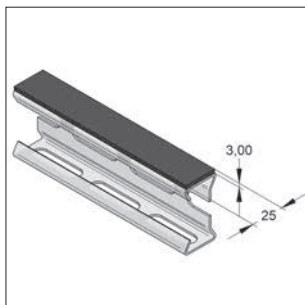
Packing
[pcs.]

50

Part-No.

0809055

SIGNUM insulation rubber LP50, self-adhesive

SIGNUM insulation rubber LP50
self-adhesive**Specification:**

Profile rail type: SIGNUM LP50

Application area: Sound insulation between profile and duct.

Notice: The surface must be cleaned before application.

Technical data:Material type: rubber EPDM
Material color: black
Temperature resistance: - 35 °C up to
+ 100 °C

Identification

SIGNUM insulation rubber LP50, self-adhesive

Length
[m]

10

Dimension
width x thickness
[mm]

25 x 3

Weight
[kg/m]

0,119

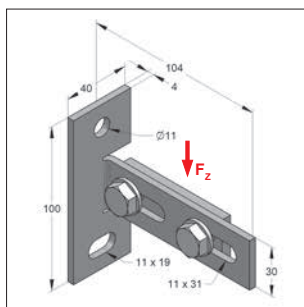
Packing
[m]

10

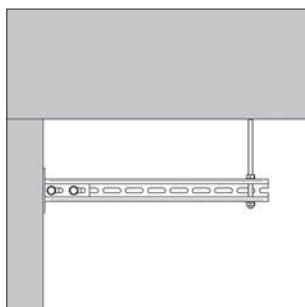
Part-No.

72102032

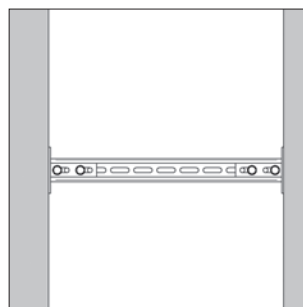
■ SIGNUM holder LP50 set



SIGNUM holder LP50 set



One-sided wall connection



Wall-to-wall connection

Specification:

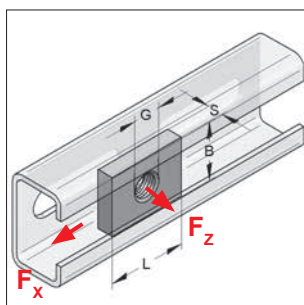
Profile rail type: SIGNUM LP50
 Scope of delivery: Completely pre-assembled with 2-hole threaded plate M10, M10 hexagon head screws and washers.

Technical data:

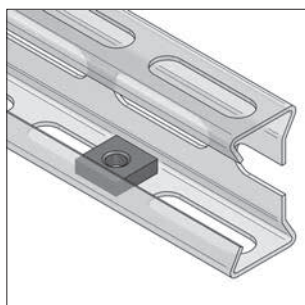
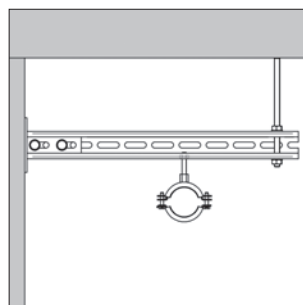
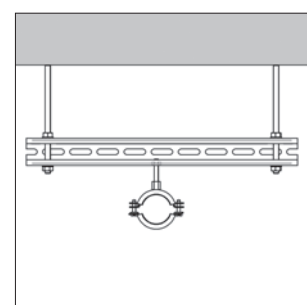
Material: steel
 Material type: S235JR
 Surface: galvanized

Identification	Plate L x W [mm]	tightening torque [Nm]	Load F_z [kN]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
SIGNUM holder LP50 set	100 x 40	20	3,0	0,312	25	0812037

■ Threaded square plate



Threaded square plate

Threaded square plate
used with SIGNUM LP50Wall connection on one side
with SIGNUM LP50Threaded bar suspension
with SIGNUM LP50

Specification:

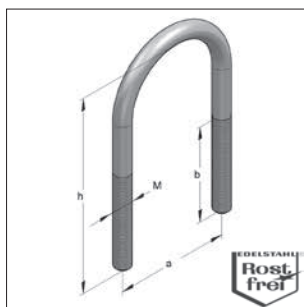
Application area: For additional fastenings (e.g. pipe clamps) to the profile.

Technical data:

Material: steel
 Material type: S235JR
 Surface: galvanized

Identification	Dimension L x W x T [mm]	Thread G	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Threaded square plate	17 x 17 x 5	M6	0,011	100	0740012
Threaded square plate	17 x 17 x 5	M8	0,010	100	0740020
Threaded square plate	17 x 17 x 5	M10	0,010	100	0740039

■ U-bolt, without nuts



U-bolt

Specification:

- for direct installation of piping onto steel girder
- suitable for sprinkler and VdS-systems
- suitable for the push-through-assembling into profile rails
- bearing should be used with 4 nuts and 4 washers
- fixed bearing should be used with 2 nuts and 2 washers

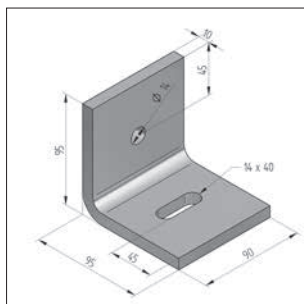
Technical data:

Material: stainless steel
Material type: V4A

Required accessories: washers and nuts

For max. profile rail height 45 mm											V4A
Description	Nominal width	Thread	OD		a	h	b	OD	Weight	Packing	Part-No.
	[DN]	M	[mm]	[Inch]	[mm]	[mm]	[mm]	[mm]	[kg/pc.]	[pc.]	
U-bolt	15	M8	21,3	1/2	30	80	65	22	0,060	1	0506022
U-bolt	20	M8	25,0		35	80	65	27	0,061	1	0506027
			26,9	3/4							
U-bolt	25	M8	30,0		42	90	65	34	0,068	1	0506034
			33,7	1							
U-bolt	32	M8	38,0		51	100	70	43	0,076	1	0506042
			42,4	1 ^{1/4}							
U-bolt	40	M8	44,5		57	105	70	49	0,081	1	0506048
			48,3	1 ^{1/2}							
U-bolt	50	M10	57,0		71	120	70	61	0,147	1	0506060
			60,3	2							
U-bolt	65	M10	76,1	2 ^{1/2}	87	135	70	77	0,167	1	0506076
U-bolt	80	M10	88,9	3	100	155	75	90	0,193	1	050608901
For max. profile rail height 60 mm											
U-bolt	100	M12	108,0		121	190	95	109	0,337	1	0506108
U-bolt	100	M12	114,3	4	126	195	95	114	0,347	1	0506114
U-bolt	125	M12	133,0		146	215	95	134	0,385	1	0506133
U-bolt	125	M12	139,7	5	152	220	95	140	0,394	1	0506140
U-bolt	150	M12	159,0		172	240	95	160	0,432	1	0506159
U-bolt	150	M12	168,3	6	180	250	95	168	0,450	1	0506168
U-bolt	200	M12	219,1	8	233	300	95	221	0,546	1	0506219

CENTUM® wall angle XL100 horizontal



CENTUM® wall angle
XL100 horizontal



CENTUM® wall angle
XL100 horizontal with rail

Specification:

For profile type: XL 100 or XL 120 upright

Area of application: With round hole for wall attachment.

Required accessory: CENTUM® T-lock plus M12 x 40

Note: Always align the slotted holes of the components in the direction of the slotted holes of the CENTUM® profile.

Technical data:

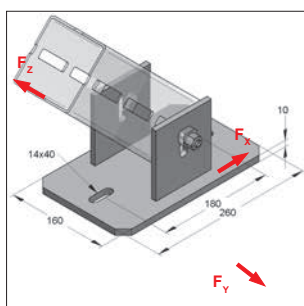
Material: steel

Material type: S235

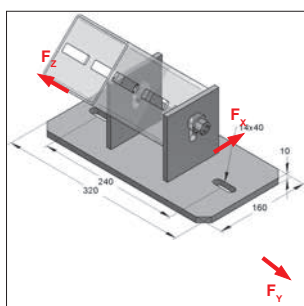
Surface: hot-dip galvanized

Identification	Weight	Packing	Part-No.
	[kg/pc.]	[pc.]	
CENTUM® wall angle XL 100 horizontal	1,29	1	1640101005

CENTUM® Joint holder



CENTUM® Joint holder
XL 100 vertical



CENTUM® Joint holder
XL 100 horizontal

Specification:

For profile type: XL 100 or XL 120

Required accessory: CENTUM® T-lock M12 x 40

Tightening torque: 60 Nm

Delivery time: On request

Technical data:

Material: steel

Material type: S235JR

Surface: hot-dip galvanized

Safety factor: 1,54

Identification	Load			Center hole Plate	Dimension Plate L x B x S	Weight [kg/pc.]	Packing [pc.]	Part-No.
	F _x [kN]	F _z [kN]	F _y [kN]					
CENTUM® Joint holder XL 100 vertical	11	20	11	180	260 x 160 x 10	4,89	1	1641004010
CENTUM® Joint holder XL 100 horizontal	11	20	11	240	320 x 160 x 10	5,72	1	1641004020