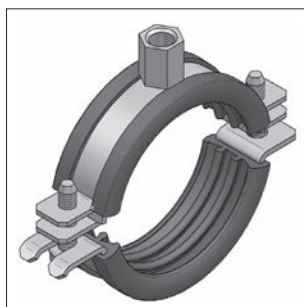
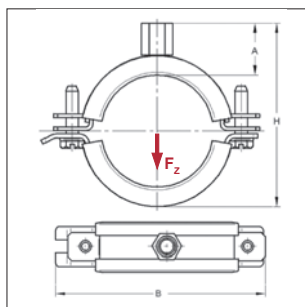


Pipe clamp Omnia MB TSP, lined



Pipe clamp Omnia MB



01

Specification

Closure: swiveling U-closure
 Construction method: two-part
 OD: 15 up to 168 mm
 Connection: M8/M10
 Application area: pipe clamp for fastening to pipes

Technical data:

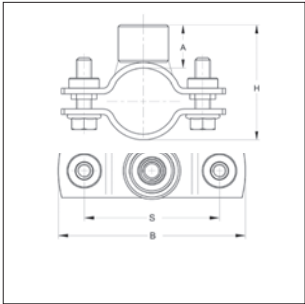
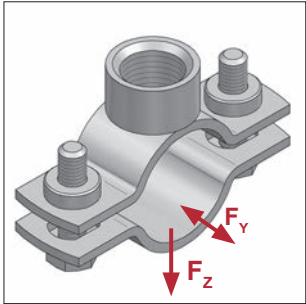
Material: steel
 Surface: galvanized
 Sound insulation lining: TPE
 Temperature resistance: - 35 °C up to + 100 °C
 Insulation thickness: 6 mm

Note: The permissible load was calculated using the static method from the breaking loads and in compliance with a maximum deformation of 1.5 mm. or 2 % of the max. clampable pipe diameter. For permissible loads in the event of fire, see chapter 15.
 Silicone sound insulation insert on request

Clamping range		Connection	Closure-screw	Material	Load F _z ¹⁾	H _(min-max)	A	B	Weight	Packing	Part-No.
[mm]	[Inch]			[mm]	[kN]	[mm]	[mm]	[mm]	[kg/pc.]	[pcs.]	
15 - 20	3/8	M8/M10	M6	20x1,5	1,00	42-47	24	61	0,078	100	0398020/zn
22 - 28	1/2-3/4	M8/M10	M6	20x1,5	1,00	49-56	24	68	0,086	100	0398028/zn
30 - 35	1	M8/M10	M6	20x1,5	1,00	57-62	24	78	0,096	100	0398035/zn
38 - 42	1 ^{1/4}	M8/M10	M6	20x2,0	1,60	66-70	24	89	0,117	50	0398042/zn
44 - 48	1 ^{1/2}	M8/M10	M6	20x2,0	1,60	72-76	24	92	0,127	50	0398048/zn
50 - 54		M8/M10	M6	20x2,0	1,60	78-82	24	101	0,137	50	0398054/zn
56 - 60	2	M8/M10	M6	20x2,0	1,60	84-88	24	108	0,146	50	0398060/zn
75 - 83	2 ^{1/2}	M8/M10	M6	20x2,0	1,60	103-108	24	124	0,177	50	0398078/zn
84 - 90	3	M8/M10	M6	25x2,5	1,80	113-118	25	136	0,259	25	0398089/zn
108 - 112		M8/M10	M6	25x2,5	1,80	137-141	25	158	0,304	50	0398112/zn
114 - 116	4	M8/M10	M6	25x2,5	1,80	143-145	25	165	0,316	25	0398116/zn

Pipe clamp Maxima PSM 3G

01



Pipe clamp Maxima PSM 3G

Specification:

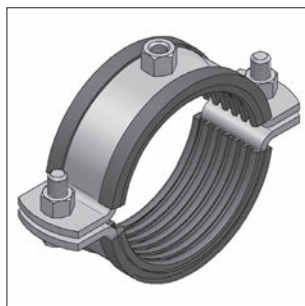
Closing: pendulum stick nut
Model: 2-part
OD: 20 up to 46 mm
Connection: M8/M10 + 1/2"

Technical data:

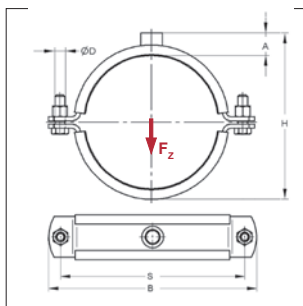
Material: steel
Material type: DD11
Surface: galvanized
Remark: The tightening torque of the pipe clamp and axial forces only apply to steel pipes with a standard wall thickness.

Clamping range	Material	Closure	Tightening	Load	Load	H	A	B	S	Weight	Packing	Part-No.
[mm]	[mm]	screws	torque	F _z	F _y	[mm]	[mm]	[mm]	[mm]	[kg/pc.]	[pc.]	
			[Nm]	[kN]	[kN]							
20 - 23	25 x 3,0	M8	5	3,00	0,7	41-44	23	73	49	0,216	1	0069047
25 - 29	25 x 3,0	M8	5	3,00	0,7	46-50	23	80	56	0,225	1	0069049
30 - 35	25 x 3,0	M8	5	3,00	0,7	51-56	23	87	63	0,235	1	0069053
36 - 40	25 x 3,0	M8	5	3,00	0,7	57-61	23	92	68	0,246	1	0069081
41 - 46	25 x 3,0	M8	5	3,00	0,7	62-67	23	98	74	0,258	1	0069097

Pipe clamp Titan HD, lined



Pipe clamp Titan HD



Related fire loads see page 15/16

Delivery time:

5 - 8 working days, ex works (pipe clamps Titan HD are special designed on customer's request, no exchange or return).

Variant demand on request!

Specification

Closure: screwed closure
Construction method: two-part
OD: 64 up to 508 mm
Connection: M12, M16, 1/2", 1", 1 1/4"
Sound insulation: according to DIN 4109

Technical data:

Material: steel
Material type: S235JRG2
Surface: galvanized
Sound insulation lining: Silicone¹⁾ TPE
Temperature resistance: - 50 °C up to + 250 °C - 35 °C up to + 100 °C
Insulation thickness: 6 mm 6 mm

¹⁾ loads are also valid for pipe clamps with silicone lining, these are not RAL approved.

Connection: Thread M12												with sound insulation lining	Silicone	TPE
Dimension [mm]	[Inch]	Material [mm]	Closure- screw	Load F _z ²⁾ [kN]	H [mm]	A [mm]	B [mm]	S [mm]	D [mm]	Weight [kg/pc.]	Packing [pc.]	Part-No.	Part-No.	
60		50x5,0	M12	3,20	94	22	149	120	13	0,888	1	-	0066497	
64		50x5,0	M12	3,20	97	22	154	125	13	0,918	1	0067500	0066504	
76	2 ^{1/2}	50x5,0	M12	3,20	109	22	166	137	13	1,008	1	0067504	0066508	
89	3	50x5,0	M12	3,20	122	22	179	150	13	1,105	1	0067506	0066510	
108		50x5,0	M12	3,20	141	22	199	170	13	1,248	1	0067512	0066516	
110		50x5,0	M12	3,20	143	22	201	172	13	1,263	1	0067539	0066532	
114	4	50x5,0	M12	3,20	147	22	205	176	13	1,293	1	0067555	0066559	
125		50x5,0	M12	3,20	158	22	216	187	13	1,375	1	0067571	0066583	
127		50x5,0	M12	3,20	160	22	218	189	13	1,390	1	0067598	0066591	
133		50x5,0	M12	3,20	166	22	224	195	13	1,435	1	0067601	0066605	
135		50x5,0	M12	3,20	168	22	226	197	13	1,450	1	0067628	0066613	
140	5	50x5,0	M12	3,20	173	22	231	202	13	1,488	1	0067636	0066621	
152		50x5,0	M12	3,20	185	22	243	214	13	1,578	1	0067644	0066648	
160		50x5,0	M12	3,20	193	22	251	222	13	1,638	1	0067687	0066680	
165	6	50x5,0	M12	3,20	198	22	256	227	13	1,675	1	0067695	0066699	
168		50x5,0	M12	3,20	201	22	259	230	13	1,698	1	0067717	0066710	
177		50x5,0	M12	11,50	210	22	268	239	13	1,765	1	0067733	0066737	
180		50x5,0	M12	11,50	213	22	271	242	13	1,788	1	0067741	0066753	
194		50x5,0	M12	11,50	227	22	286	257	13	1,893	1	0067768	0066761	
200		50x5,0	M12	11,50	233	22	292	263	13	1,938	1	0067784	0066788	
210		50x5,0	M12	11,50	243	22	302	273	13	2,013	1	0067814	0066818	
219	8	50x5,0	M12	11,50	252	22	311	282	13	2,080	1	0067822	0066826	
225		50x5,0	M12	11,50	258	22	317	288	13	2,125	1	0067849	0066842	
245		50x5,0	M12	11,50	278	22	337	308	13	2,275	1	0067873	0066877	
267		50x5,0	M12	11,50	300	22	359	330	13	2,440	1	0067881	0066893	
273	10	50x5,0	M12	11,50	306	22	365	336	13	2,485	1	0067903	0066907	
280		50x5,0	M12	11,50	313	22	372	343	13	2,538	1	0067911	0066923	
298		50x5,0	M12	11,50	331	22	390	361	13	2,673	1	0067938	0066931	
324	12	50x5,0	M12	11,50	357	22	416	387	13	2,867	1	0067954	0066958	
356		50x5,0	M12	11,50	389	22	448	419	13	3,107	1	0067962	0066966	
368		50x5,0	M12	11,50	401	22	460	431	13	3,197	1	0067989	0066982	

Pipe clamp Titan HD, lined

Connection: Sleeve 1/2"							with sound insulation lining				Silicone	TPE	
Dimension [mm]	[Inch]	Material [mm]	Closure- screw	Load F _z ²⁾ [kN]	H [mm]	A [mm]	B [mm]	S [mm]	D [mm]	Weight [kg/pc.]	Packing [pc.]	Part-No.	Part-No.
64	2 1/2	50x5,0	M12	3,20	101	26	154	125	13	0,931	1	0077506	0072503
76		50x5,0	M12	3,20	113	26	166	137	13	1,021	1	0077510	0072508
89		50x5,0	M12	3,20	126	26	179	150	13	1,118	1	0077512	0072510
108	3	50x5,0	M12	3,20	145	26	199	170	13	1,261	1	0077518	0072516
110		50x5,0	M12	3,20	147	26	201	172	13	1,276	1	0077534	0072532
114		50x5,0	M12	3,20	151	26	205	176	13	1,306	1	0077550	0072559
125	4	50x5,0	M12	3,20	162	26	216	187	13	1,388	1	0077585	0072583
127		50x5,0	M12	3,20	164	26	218	189	13	1,403	1	0077593	0072591
133		50x5,0	M12	3,20	170	26	224	195	13	1,448	1	0077607	0072605
135	5	50x5,0	M12	3,20	172	26	226	197	13	1,463	1	0077615	0072613
140		50x5,0	M12	3,20	177	26	231	202	13	1,501	1	0077623	0072621
152		50x5,0	M12	3,20	189	26	243	214	13	1,591	1	0077631	0072648
160	6	50x5,0	M12	3,20	197	26	251	222	13	1,651	1	0077682	0072680
165		50x5,0	M12	3,20	202	26	256	227	13	1,688	1	0077690	0072699
168		50x5,0	M12	3,20	205	26	259	230	13	1,711	1	0077712	0072710
177	8	50x5,0	M12	11,50	214	26	268	239	13	1,778	1	0077739	0072737
180		50x5,0	M12	11,50	217	26	271	243	13	1,801	1	0077755	0072753
194		50x5,0	M12	11,50	231	26	286	257	13	1,906	1	0077771	0072761
200	10	50x5,0	M12	11,50	237	26	292	263	13	1,951	1	0077798	0072788
210		50x5,0	M12	11,50	247	26	302	273	13	2,026	1	0077801	0072818
219		50x5,0	M12	11,50	256	26	311	282	13	2,093	1	0077828	0072826
225	12	50x5,0	M12	11,50	262	26	317	288	13	2,138	1	0077844	0072842
245		50x5,0	M12	11,50	282	26	337	308	13	2,288	1	0077879	0072877
267		50x5,0	M12	11,50	304	26	359	330	13	2,453	1	0077895	0072893
273	10	50x5,0	M12	11,50	310	26	365	336	13	2,498	1	0077909	0072907
280		50x5,0	M12	11,50	317	26	372	343	13	2,551	1	0077925	0072923
298		50x5,0	M12	11,50	335	26	390	361	13	2,686	1	0077933	0072931
324	12	50x5,0	M12	11,50	361	26	416	387	13	2,880	1	0077941	0072958
356		50x5,0	M12	11,50	393	26	448	419	13	3,120	1	0077968	0072966
368		50x5,0	M12	11,50	405	26	460	431	13	3,210	1	0077984	0072982

Connection: Sleeve 1"							with sound insulation lining				Silicone	TPE	
64	2 1/2	50x5,0	M12	3,20	106	31	154	125	13	0,979	1	0079498	0074507
76		50x5,0	M12	3,20	118	31	166	137	13	1,069	1	0079502	0074511
89		50x5,0	M12	3,20	131	31	179	150	13	1,166	1	0079504	0074513
108	3	50x5,0	M12	3,20	150	31	199	170	13	1,309	1	0079510	0074519
110		50x5,0	M12	3,20	152	31	201	172	13	1,324	1	0079537	0074535
114		50x5,0	M12	3,20	156	31	205	176	13	1,354	1	0079553	0074551
125	4	50x5,0	M12	3,20	167	31	216	187	13	1,436	1	0079588	0074586
127		50x5,0	M12	3,20	169	31	218	189	13	1,451	1	0079596	0074594
133		50x5,0	M12	3,20	175	31	224	195	13	1,496	1	0079618	0074608
135	5	50x5,0	M12	3,20	177	31	226	197	13	1,511	1	0079626	0074616
140		50x5,0	M12	3,20	182	31	231	202	13	1,549	1	0079634	0074624
152		50x5,0	M12	3,20	194	31	243	214	13	1,639	1	0079642	0074640
160	6	50x5,0	M12	3,20	202	31	251	222	13	1,699	1	0079685	0074683

Pipe clamp Titan HD, lined

01

Connection: Sleeve 1"												with sound insulation lining	Silicone	TPE
Dimension [mm]	[Inch]	Material [mm]	Closure- screw	Load $F_z^{2)}$ [kN]	H [mm]	A [mm]	B [mm]	S [mm]	D [mm]	Weight [kg/pc.]	Packing [pc.]		Part-No.	Part-No.
165	6	50x5,0	M12	3,20	207	31	256	227	13	1,736	1		0079693	0074691
168		50x5,0	M12	3,20	210	31	259	230	13	1,759	1		0079715	0074713
177		50x5,0	M12	11,50	219	31	268	239	13	1,826	1		0079731	0074748
180		50x5,0	M12	11,50	222	31	271	242	13	1,849	1		0079758	0074756
194		50x5,0	M12	11,50	236	31	286	257	13	1,954	1		0079774	0074772
200		50x5,0	M12	11,50	242	31	292	263	13	1,999	1		0079782	0074780
210		50x5,0	M12	11,50	252	31	302	273	13	2,074	1		0079804	0074802
219	8	50x5,0	M12	11,50	261	31	311	282	13	2,141	1		0079820	0074829
225		50x5,0	M12	11,50	267	31	317	288	13	2,186	1		0079847	0074845
245		50x5,0	M12	11,50	287	31	337	308	13	2,336	1		0079871	0074861
267		50x5,0	M12	11,50	309	31	359	330	13	2,501	1		0079898	0074896
273	10	50x5,0	M12	11,50	315	31	365	336	13	2,546	1		0079901	0074918
280		50x5,0	M12	11,50	322	31	372	343	13	2,599	1		0079928	0074926
298		50x5,0	M12	11,50	340	31	390	361	13	2,734	1		0079936	0074934
324	12	50x5,0	M12	11,50	366	31	416	387	13	2,928	1		0079944	0074942
356		50x5,0	M12	11,50	398	31	448	419	13	3,168	1		0079960	0074969
368		50x5,0	M12	11,50	410	31	460	431	13	3,258	1		0079987	0074985
406*		50x5,0	M12	11,50	448	31	498	469	13	3,543	1		00799895	0074993
457*		50x5,0	M12	11,50	499	31	549	520	13	3,926	1		00799903	0075003
508*		50x5,0	M12	11,50	550	31	600	571	13	4,308	1		00799907	0075013
Connection: Sleeve 1 1/4"												with sound insulation lining	Silicone	TPE
194		50x5,0	M12	11,50	238	33	286	257	13	1,979	1		0063845	0063941
200		50x5,0	M12	11,50	244	33	292	263	13	2,024	1		0063847	0063943
219	8	50x5,0	M12	11,50	263	33	311	282	13	2,166	1		0063853	0063951
245		50x5,0	M12	11,50	289	33	337	308	13	2,361	1		0063859	0063957
267		50x5,0	M12	11,50	311	33	359	330	13	2,526	1		0063863	0063961
273	10	50x5,0	M12	11,50	317	33	365	336	13	2,571	1		0063865	0063963
324	12	50x5,0	M12	11,50	368	33	416	387	13	2,953	1		0063881	0063978
356		50x5,0	M12	11,50	400	33	448	419	13	3,193	1		0063891	0063988
368		50x5,0	M12	11,50	412	33	460	431	13	3,283	1		0063893	0063990
406*		50x5,0	M12	11,50	450	33	498	469	13	3,568	1		0063901	0063998
457*		50x5,0	M12	11,50	501	33	549	520	13	3,951	1		00639015	00640063
508*		50x5,0	M12	11,50	552	33	600	571	13	4,333	1		00639023	0064016

Remark: Determination of allowable load according to static methods and breaking loads, considering a max. allowable deformation of 1,5 mm or 2% of max. tensible pipe diameter.

Products awarded with „Gütezeichen Rohrbefestigung“ and subject to external supervision acc. to RAL-GZ 655-B.

* not certified acc. to RAL-GZ 655-B.

Pipe clamp Titan HD, lined

Without connection thread				with sound insulation lining							Silicone	TPE
Dimension [mm] [Inch]	Material [mm]	Closure- screw	Load $F_z^{2)}$ [kN]	H [mm]	A [mm]	B [mm]	S [mm]	D [mm]	Weight [kg/pc.]	Packing [pc.]	Part-No.	Part-No.
54	50x5,0	ohne VS	3,20	80	-	143	114	13	0,686	1	-	00704982
64	50x5,0	ohne VS	3,20	86	-	154	125	13	0,761	1	-	0070501
76	2 1/2 50x5,0	ohne VS	3,20	98	-	166	137	13	0,851	1	-	0070505
89	3 50x5,0	ohne VS	3,20	111	-	179	150	13	0,948	1	-	0070507
108	50x5,0	ohne VS	3,20	130	-	199	160	13	1,09	1	-	0070513
110	50x5,0	ohne VS	3,20	132	-	201	162	13	1,11	1	-	0070548
114	4 50x5,0	ohne VS	3,20	136	-	205	166	13	1,14	1	-	0070556
133	50x5,0	ohne VS	3,20	155	-	224	185	13	1,28	1	-	0070602
135	50x5,0	ohne VS	3,20	157	-	226	187	13	1,29	1	-	0070610
140	5 50x5,0	ohne VS	3,20	162	-	231	192	13	1,33	1	-	0070629
159	50x5,0	ohne VS	3,20	181	-	250	212	13	1,47	1	-	0070649
165	6 50x5,0	ohne VS	3,20	187	-	256	217	13	1,52	1	-	0070696
168	50x5,0	ohne VS	11,50	190	-	259	220	13	1,54	1	-	0070718
193	50x5,0	ohne VS	11,50	215	-	285	246	13	1,74	1	-	0070777
200	50x5,0	ohne VS	11,50	222	-	292	252	13	1,78	1	-	0070785
210	50x5,0	ohne VS	11,50	232	-	302	262	13	1,86	1	-	0070807
219	8 50x5,0	ohne VS	11,50	241	-	311	272	13	1,92	1	-	0070923
267	50x5,0	ohne VS	11,50	286	-	359	319	13	2,28	1	-	0070890
273	10 50x5,0	ohne VS	11,50	295	-	365	126	13	2,33	1	-	0070904
324	12 50x5,0	ohne VS	11,50	346	-	416	376	13	2,71	1	-	0070947
356	50x5,0	ohne VS	11,50	378	-	448	408	13	2,95	1	-	0070963
368	50x5,0	ohne VS	11,50	390	-	460	420	13	3,04	1	-	0070971
406*	50x5,0	ohne VS	11,50	428	-	498	469	13	3,33	1	0075990	0070979
457*	50x5,0	ohne VS	11,50	479	-	549	520	13	3,71	1	0075998	0070989
508*	50x5,0	ohne VS	11,50	530	-	600	571	13	4,09	1	0076009	0070996

* not certified acc. to RAL-GZ 655-B

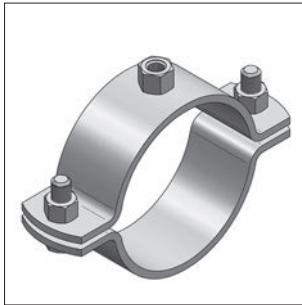
Remark: Determination of allowable load according to static methods and breaking loads, considering a max. allowable deformation of 1,5 mm or 2% of max. tensible pipe diameter.

Products awarded with „Gütezeichen Rohrbefestigung“ and subject to external supervision acc. to RAL-GZ 655-B.

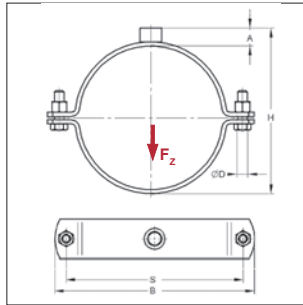
* not certified acc. to RAL-GZ 655-B.

Pipe clamp Titan HD, unlined

01



Pipe clamp Titan HD



Related fire loads see page 15/16

Delivery time:

5 - 8 working days, ex works Kupferzell (pipe clamps Titan HD are special designed on customer' request, no exchange or return).

Variant demand on request!

Specification

Closure: screwed closure
Construction method: two-part
OD: 64 up to 508 mm
Connection: M12, M16, 1/2", 1", 1 1/4"

Technical data:

Material: steel
Material type: S235JRG2
Surface: galvanized

Connection: Thread M12

without sound insulation lining

Dimension		Material	Closure-screw	Load F _z	H	A	B	S	D	Weight	Packing	Part-No.
[mm]	[Inch]	[mm]		[kN]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg/pc.]	[pc.]	
64	2 1/2	50x5,0	M12	6,00	85	16	141	112	13	0,766	1	0066503
76		50x5,0	M12	6,00	97	16	153	124	13	0,842	1	0066507
89		50x5,0	M12	6,00	110	16	167	138	13	0,925	1	0066509
108		50x5,0	M12	6,00	129	16	186	157	13	1,046	1	0066515
110		50x5,0	M12	6,00	131	16	188	159	13	1,058	1	0066518
114	4	50x5,0	M12	6,00	135	16	192	163	13	1,084	1	0066520
133	5	50x5,0	M12	6,00	154	16	212	183	13	1,205	1	0066572
135		50x5,0	M12	6,00	156	16	214	185	13	1,217	1	0066592
140		50x5,0	M12	6,00	161	16	219	190	13	1,249	1	0066606
160		50x5,0	M12	6,00	181	16	239	210	13	1,376	1	0066649
165		50x5,0	M12	6,00	186	16	244	215	13	1,408	1	0066682
168	6	50x5,0	M12	6,00	189	16	247	218	13	1,427	1	0066684
194	8	50x5,0	M12	16,00	215	16	273	244	13	1,592	1	0066754
200		50x5,0	M12	16,00	221	16	279	250	13	1,630	1	0066762
210		50x5,0	M12	16,00	231	16	290	261	13	1,694	1	0066792
219		50x5,0	M12	16,00	240	16	299	270	13	1,751	1	0066819
267		50x5,0	M12	16,00	288	16	347	318	13	2,056	1	0066881
273	10	50x5,0	M12	16,00	294	16	353	324	13	2,095	1	0066894
324	12	50x5,0	M12	16,00	345	16	404	375	13	2,419	1	0066955
356		50x5,0	M12	16,00	377	16	436	407	13	2,622	1	0066965
368		50x5,0	M12	16,00	389	16	448	419	13	2,698	1	0066981

■ Pipe clamp Titan HD, unlined

01

Connection: Thread M16									without sound insulation lining			
Dimension		Material	Closure-screw	Load F _z	H	A	B	S	D	Weight	Packing	Part-No.
[mm]	[Inch]	[mm]		[kN]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg/pc.]	[pc.]	
64	2 ^{1/2}	50x5,0	M12	6,00	89	20	141	112	13	0,783	1	0071515
76		50x5,0	M12	6,00	101	20	153	124	13	0,859	1	0071519
89		50x5,0	M12	6,00	114	20	167	138	13	0,942	1	0071521
108		50x5,0	M12	6,00	133	20	186	157	13	1,063	1	0071527
110	4	50x5,0	M12	6,00	135	20	188	159	13	1,075	1	0071529
114		50x5,0	M12	6,00	139	20	192	163	13	1,101	1	0071530
133		50x5,0	M12	6,00	158	20	212	183	13	1,222	1	0071588
135		50x5,0	M12	6,00	160	20	214	185	13	1,234	1	0071596
140	5	50x5,0	M12	6,00	165	20	219	190	13	1,266	1	0071610
160		50x5,0	M12	6,00	185	20	239	210	13	1,393	1	0071642
165	6	50x5,0	M12	6,00	190	20	244	215	13	1,425	1	0071685
168		50x5,0	M12	6,00	193	20	247	218	13	1,444	1	0071687
194	8	50x5,0	M12	16,00	219	20	273	244	13	1,609	1	0071758
200		50x5,0	M12	16,00	225	20	279	250	13	1,647	1	0071774
210		50x5,0	M12	16,00	235	20	290	261	13	1,711	1	0071784
219		50x5,0	M12	16,00	244	20	299	270	13	1,768	1	0071804
267		50x5,0	M12	16,00	292	20	347	318	13	2,073	1	0071873
273		50x5,0	M12	16,00	298	20	353	324	13	2,112	1	0071898
324	12	50x5,0	M12	16,00	349	20	404	375	13	2,436	1	0071939
356		50x5,0	M12	16,00	381	20	436	407	13	2,639	1	0071977
368	14	50x5,0	M12	16,00	393	20	448	419	13	2,715	1	0071979
406*		50x5,0	M12	16,00	431	20	486	457	13	2,957	1	0071993
457*		50x5,0	M12	16,00	482	20	537	508	13	3,281	1	00720091
508*		50x5,0	M12	16,00	533	20	588	559	13	3,605	1	007205082

Connection: Sleeve 1/2"									without sound insulation lining			
27		50x5,0	M12	6,00	52	20	101	72	13	0,544	1	0072490
64		50x5,0	M12	6,00	89	20	141	112	13	0,779	1	0072502
76	2 ^{1/2}	50x5,0	M12	6,00	101	20	153	124	13	0,855	1	0072507
89	3	50x5,0	M12	6,00	114	20	167	138	13	0,938	1	0072509
108		50x5,0	M12	6,00	133	20	186	157	13	1,059	1	0072514
110		50x5,0	M12	6,00	135	20	188	159	13	1,071	1	0072517
114	4	50x5,0	M12	6,00	139	20	192	163	13	1,097	1	0072519
133		50x5,0	M12	6,00	158	20	212	183	13	1,218	1	0072584
135		50x5,0	M12	6,00	160	20	214	185	13	1,230	1	0072592
140	5	50x5,0	M12	6,00	165	20	219	190	13	1,262	1	0072606
160		50x5,0	M12	6,00	185	20	239	210	13	1,389	1	0072649
165	6	50x5,0	M12	6,00	190	20	244	215	13	1,421	1	0072681
168		50x5,0	M12	6,00	193	20	247	218	13	1,440	1	0072683
194	7	50x5,0	M12	16,00	219	20	273	244	13	1,605	1	0072754
200		50x5,0	M12	16,00	225	20	279	250	13	1,643	1	0072762
210		50x5,0	M12	16,00	235	20	290	261	13	1,707	1	0072791
219	8	50x5,0	M12	16,00	244	20	299	270	13	1,764	1	0072819
267		50x5,0	M12	16,00	292	20	347	318	13	2,069	1	0072892
273	10	50x5,0	M12	16,00	298	20	353	324	13	2,108	1	0072894
324	12	50x5,0	M12	16,00	349	20	404	375	13	2,432	1	0072955
356		50x5,0	M12	16,00	381	20	436	407	13	2,635	1	0072965
368	14	50x5,0	M12	16,00	393	20	448	419	13	2,711	1	0072967

* not certified acc. to RAL-GZ 655-B

Pipe clamp Titan HD, unlined

01

Connection: Sleeve 1"

without sound insulation lining

Dimension		Material	Closure-screw	Load F _z	H	A	B	S	D	Weight	Packing	Part-No.
[mm]	[Inch]	[mm]		[kN]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg/pc.]	[pc.]	
64		50x5,0	M12	6,00	94	25	141	112	13	0,827	1	0074505
76	2 1/2	50x5,0	M12	6,00	106	25	153	124	13	0,903	1	0074510
89	3	50x5,0	M12	6,00	119	25	167	138	13	0,986	1	0074512
108		50x5,0	M12	6,00	138	25	186	157	13	1,107	1	0074520
110		50x5,0	M12	6,00	140	25	188	159	13	1,119	1	0074522
114	4	50x5,0	M12	6,00	144	25	192	163	13	1,145	1	0074524
133		50x5,0	M12	6,00	163	25	212	183	13	1,266	1	0074587
135		50x5,0	M12	6,00	165	25	214	185	13	1,278	1	0074595
140	5	50x5,0	M12	6,00	170	25	219	190	13	1,310	1	0074609
160		50x5,0	M12	6,00	190	25	239	210	13	1,437	1	0074641
165	6	50x5,0	M12	6,00	195	25	244	215	13	1,469	1	0074684
168		50x5,0	M12	6,00	198	25	247	218	13	1,488	1	0074686
194	7	50x5,0	M12	16,00	224	25	273	244	13	1,653	1	0074757
200		50x5,0	M12	16,00	230	25	279	250	13	1,691	1	0074773
210		50x5,0	M12	16,00	240	25	290	261	13	1,755	1	0074781
219	8	50x5,0	M12	16,00	249	25	299	270	13	1,812	1	0074803
267		50x5,0	M12	16,00	297	25	347	318	13	2,117	1	0074874
273	10	50x5,0	M12	16,00	303	25	353	324	13	2,156	1	0074897
324	12	50x5,0	M12	16,00	354	25	404	375	13	2,480	1	0074939
356		50x5,0	M12	16,00	386	25	436	407	13	2,683	1	0074968
368	14	50x5,0	M12	16,00	398	25	448	419	13	2,759	1	0074970
406*		50x5,0	M12	16,00	436	25	486	457	13	3,001	1	0074992
457*		50x5,0	M12	16,00	487	25	537	508	13	3,325	1	00749995
508*		50x5,0	M12	16,00	538	25	588	559	13	3,649	1	0075012

Connection: Sleeve 1 1/4"

without sound insulation lining

		Material	Closure-screw	Load F _z	H	A	B	S	D	Weight	Packing	Part-No.
76		50x5,0	M12	6,00	108	27	154	125	13	0,928	1	0063905
200		50x5,0	M12	16,00	232	27	279	250	13	1,716	1	0063942
210		50x5,0	M12	16,00	242	27	290	261	13	1,780	1	0063947
219	8	50x5,0	M12	16,00	252	27	299	270	13	1,837	1	0063949
267		50x5,0	M12	16,00	299	27	347	318	13	2,142	1	0063960
273	10	50x5,0	M12	16,00	305	27	353	324	13	2,181	1	0063962
324	12	50x5,0	M12	16,00	356	27	404	375	13	2,505	1	0063975
356		50x5,0	M12	16,00	388	27	436	407	13	2,708	1	0063987
361		50x5,0	M12	16,00	393	27	441	412	13	2,740	1	00639885
368	14	50x5,0	M12	16,00	400	27	448	419	13	2,784	1	0063989
406*		50x5,0	M12	16,00	438	27	486	457	13	3,026	1	0063997
457*		50x5,0	M12	16,00	489	27	537	508	13	3,350	1	0064009
508*		50x5,0	M12	16,00	540	27	588	559	13	3,674	1	0064010

* not certified acc. to RAL-GZ 655-B

Remark: Determination of allowable load according to static methods and breaking loads, considering a max. allowable deformation of 1,5 mm or 2% of max. tensible pipe diameter.

Products awarded with „Gütezeichen Rohrbefestigung“ and subject to external supervision acc. to RAL-GZ 655-B.

* not certified acc. to RAL-GZ 655-B.

■ Pipe clamp Titan HD, unlined

01

Without connection thread									without sound insulation lining			
Dimension		Material	Closure-screw	Load F _z	H	A	B	S	D	Weight	Packing	Part-No.
[mm]	[Inch]	[mm]		[kN]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg/pc.]	[pc.]	
64		50x5,0	ohne VS	6,0	74	-	141	112	13	0,609	1	0070500
76		50x5,0	ohne VS	6,0	86	-	153	124	13	0,685	1	0070504
89		50x5,0	ohne VS	6,0	99	-	167	138	13	0,768	1	0070506
108		50x5,0	ohne VS	6,0	118	-	186	148	13	0,889	1	0070512
110		50x5,0	ohne VS	6,0	120	-	188	150	13	0,901	1	0070515
114		50x5,0	ohne VS	6,0	124	-	192	154	13	0,927	1	0070514
133		50x5,0	ohne VS	6,0	143	-	212	173	13	1,05	1	0070581
135		50x5,0	ohne VS	6,0	145	-	214	175	13	1,06	1	0070600
140		50x5,0	ohne VS	6,0	150	-	219	180	13	1,09	1	0070603
159		50x5,0	ohne VS	6,0	169	-	238	200	13	1,21	1	0070647
164		50x5,0	ohne VS	6,0	174	-	243	234	13	1,44	1	0070751
165		50x5,0	ohne VS	6,0	175	-	244	205	13	1,25	1	0070686
168		50x5,0	ohne VS	6,0	178	-	247	208	13	1,27	1	0070689
200		50x5,0	ohne VS	16,00	210	-	279	240	13	1,47	1	0070778
210		50x5,0	ohne VS	16,00	220	-	289	250	13	1,54	1	0070786
219		50x5,0	ohne VS	16,00	229	-	299	260	13	1,59	1	0070808
267		50x5,0	ohne VS	16,00	277	-	347	307	13	1,90	1	0070881
273		50x5,0	ohne VS	16,00	283	-	253	314	13	1,94	1	0070891
324		50x5,0	ohne VS	16,00	334	-	404	364	13	2,26	1	0070945
356		50x5,0	ohne VS	16,00	366	-	436	196	13	2,47	1	0070962
368		50x5,0	ohne VS	16,00	368	-	448	408	13	2,54	1	0070964
406*		50x5,0	ohne VS	16,00	416	-	486	457	13	2,78	1	0070978
457*		50x5,0	ohne VS	16,00	467	-	537	508	13	3,11	1	00709887
508*		50x5,0	ohne VS	16,00	518	-	588	559	13	3,43	1	0070995

* not certified acc. to RAL-GZ 655-B

Remark: Determination of allowable load according to static methods and breaking loads, considering a max. allowable deformation of 1,5 mm or 2% of max. tensible pipe diameter.

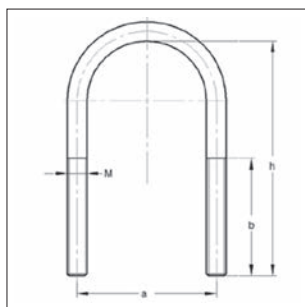
Products awarded with „Gütezeichen Rohrbefestigung“ and subject to external supervision acc. to RAL-GZ 655-B.

* not certified acc. to RAL-GZ 655-B.

U-bolt



U-bolt



G 4940029*

01

Specification

OD: 21,3 up to 323,9 mm

Thread: M8, M10, M12, M20

- for direct installation of piping onto steel structures
- suitable for sprinkler
- suitable for 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
- should not be used as fixpoint without required measures

Technical data:

Material:

steel

Surface:

galvanized¹⁾

Admission:

VdS-approval No.: G 4940029

- other dimensions according to VdS-2092 guideline "planning and installation"

¹⁾ U-bolts for outdoor application with zinc-nickel-coating see chapter 14

U-bolt differing from DIN 3570

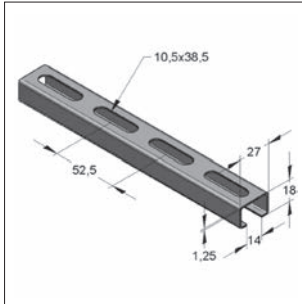
without nuts

OD	Thread	Overall height	Center distance	Length of thread	Weight	Packing	Part-No.
[mm]	M	h	a	b	[kg/pc.]	[pcs.]	
21,3	M8	85	30	65	0,051	100	050702201
26,9	M8	85	35	65	0,062	100	050702801
33,7	M8	95	42	65	0,070	100	050703501
42,4	M8	105	51	75	0,078	100	050704201
48,3	M8	110	57	75	0,082	100	050704801
60,3	M10	125	71	75	0,154	100	050706001
76,1	M10	140	87	75	0,169	100	050707601
88,9	M10	155	100	75	0,187	50	050708901
108,0	M12	195	121	95	0,338	50	050710801
114,3	M12	200	126	95	0,348	50	050711401
133,0	M12	215	146	90	0,370	25	0507133
139,7	M12	225	152	95	0,394	25	050714001
159,0	M12	240	172	90	0,416	25	0507159
168,3	M12	255	180	95	0,449	25	050716801
219,1*	M12	300	233	95	0,525	25	0507219

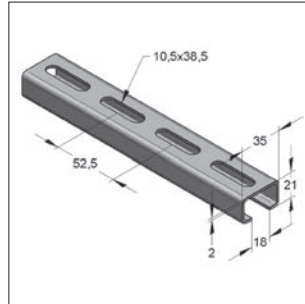
U-bolt without nuts according to DIN 3570

273,0	M20	313	302	70	1,663	10	0507273
323,9	M20	364	352	70	1,929	1	0507324

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



Type 27/18



Type 35/21

Specification:

Material: S250GD-Z275-N-A (EN 10346)
Surface: pre-galvanized (sendzimir galvanized)
Note: Design according to DIN EN 1993-1-2 (EC3) is carried out by our application engineering



Type 27/18

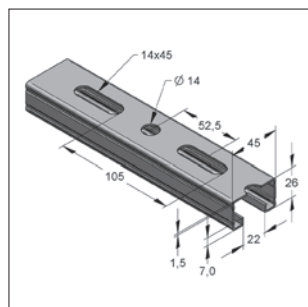
Description	Corrosion protection	Weight [kg/m]	Length [m]	Packing [m]	Bundle [m]	Part-No.
27/18/1,25 fbv	pre-galvanized	0,60	2	20	800	1240013

Type 35/21

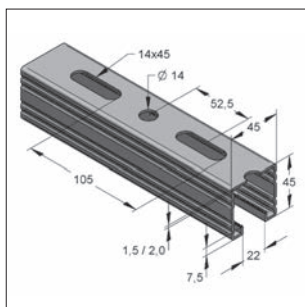
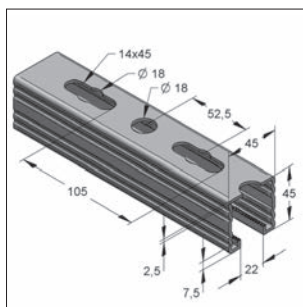
35/21/2,0 fbv	pre-galvanized	1,16	2	12	192	0800022
35/21/2,0 fbv	pre-galvanized	1,16	6	36	576	0800026

i technical overview of profile rails see on page 2/61
profile rails in stainless steel V2A or V4A see chapter 13
profile rails with coating on request

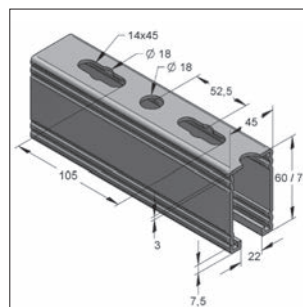
Profile rail 45, galvanized, C-profile rail, perforated, toothed



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: Design in accordance with DIN EN 1993-1-2 (EC3) is carried out by our application technology department.

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

Type 45/26

Identification	Surface	Weight [kg/m]	Length [m]	Bundle [m]	Part-No.
45/26/1,5 fbv	pre-galv.	1,34	2	200	08202622
45/26/1,5 fbv	pre-galv.	1,34	6	600	08202662

Type 45/45

45/45/1,5 fbv	pre-galv.	1,89	2	120	082045215
45/45/1,5 fbv	pre-galv.	1,89	6	360	082045615
45/45/2,0 fbv	pre-galv.	2,45	2	120	082045220
45/45/2,0 fbv	pre-galv.	2,45	6	360	082045620
45/45/2,5 fbv ³⁾	pre-galv.	2,96	3	180	0820453251
45/45/2,5 fbv ³⁾	pre-galv.	2,96	6	360	0820456251
45/45/2,5 fsv ^{1) 3)}	hot-dip galv.	3,21	3	180	0820453252
45/45/2,5 fsv ^{1) 3)}	hot-dip galv.	3,21	6	360	0820456252

Type 45/60

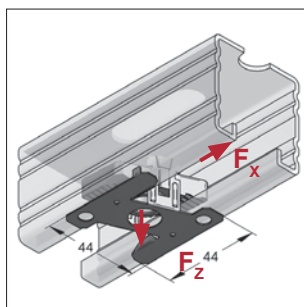
45/60/3,0 fbv	pre-galv.	4,06	6	240	0810762
45/60/3,0 fsv ¹⁾	hot-dip galv.	4,35	6	240	0810770

Type 45/75

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

i technical overview of profile rails see on page 2/65
profile rails made of stainless steel V2A or V4A see in chapter 13
profile rails with various coatings on request

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
 Application 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

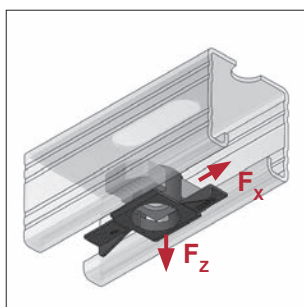
02

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.
0,059	30	1280006
0,058	30	1280008
0,056	30	1280010
0,053	30	1280012

Stex 45 mounting plate MP-S



Stex 45 mounting plate MP-S

Specification:

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

Technical data:

Material: steel
 Material type: S235JR
 Surface: Zinc-nickel / polyamide

application loads see on page 2/28

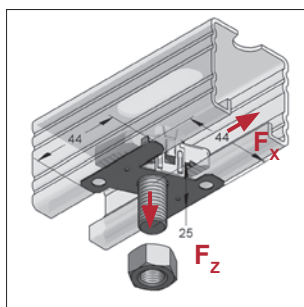
* not certified acc. to RAL

Identification

Stex 45 mounting plate MP-S M 8
 Stex 45 mounting plate MP-S M 10
 Stex 45 mounting plate MP-S M 12

Weight [kg/pc.]	Packing [pcs.]	Part-No.
0,046	50	0818104
0,045	50	0818105
0,042	50	0818106

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
 Application area: connecting parts

Technical data:

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

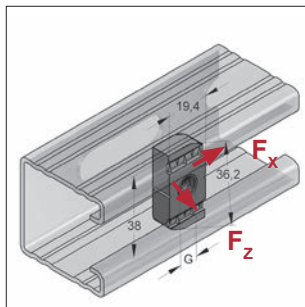
application loads see on page 2/27

Identification

Stex 45 mounting bolt MTB M12x40

Weight [kg/pc.]	Packing [pcs.]	Part-No.
0,099	40	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
 Application area: connecting parts, pipe clamp fixation
 Required accessory: hexagon screw, threaded pin or -rod, washer and hexagon nut

Technical data:

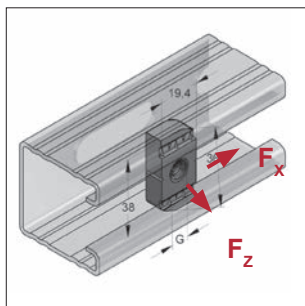
Material: steel
 Material type: S235JR
 Surface: galvanized

application loads see on page 2/27

*part can't be designed according to fire protection calculation

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	0,042	100	081810302

■ 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:

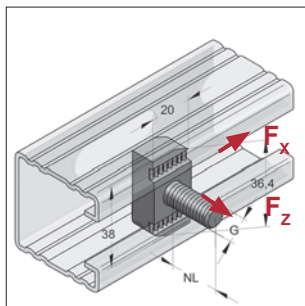
Material: steel
 Material type: S235JR
 Surface: zinc-nickel

application loads see on page 2/27

*part can't be designed according to fire protection calculation

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	0,042	100	081810302/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

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	45	40
45/52/1,5 D				
45/45/1,5				
45/90/1,5 D				
45/45/2,0				
45/90/2,0 D	10,94	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	45
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*, Stex 45 mounting plate MP-S*, tooth bolt (M12)			
			M12 8.8	M10 8.8
	F_z [kN]	F_x [kN]	tightening torque [Nm]	tightening torque [Nm]
45/26/1,5	4,50	3,91	45	40
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				

* without approval according to RAL-GZ 655-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 $\gamma = 2$

02

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	45	40
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	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	Tooth plate S*, Stex 45 mounting plate MP-S*, tooth bolt (M12)			
			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	45	40
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 pre-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 pre-galvanized	Threaded plate 40 x 22 (40,5 x 19 x 8)		
			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 pre-galvanized	Threaded square plate M10 and M12 35 x 30 x 6, (M16 35 x 30 x 8)*			
			M12 8.8 (M16 8.8)	M10 8.8
	F _z [kN]	F _x [kN]	tightening torque [Nm]	tightening torque [Nm]
45/26/1,5	2,80 (3,23)*	1,45 (1,70)*	40 (45)*	35
45/52/1,5 D				
45/45/1,5				
45/90/1,5 D				
45/45/2,0				
45/90/2,0 D	8,6 (8,8)*	1,75 (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				

* Values in brackets only for M16 35 x 30 x 8

■ Admissible loading capacity

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

02

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	45
45/90/2,5 D			
45/60/3,0			
45/120/3,0 D			
45/75/3,0*			
45/150/3,0 D*			

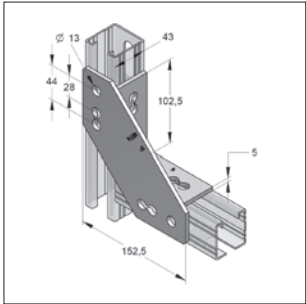
Profile rail hot-dip galvanized	Threaded square plate M10 and M12 35 x 30 x 6, (M16 35 x 30 x 8)**			
			M12 8.8 (M16 8.8)	M10 8.8
	F_z [kN]	F_x [kN]	tightening torque [Nm]	tightening torque [Nm]
45/45/2,5	8,60 (8,80)**	1,60 (1,90)**	40 (45)**	35
45/90/2,5 D				
45/60/3,0				
45/120/3,0 D				
45/75/3,0*				
45/150/3,0 D*				

* without approval according to RAL-GZ 655-D

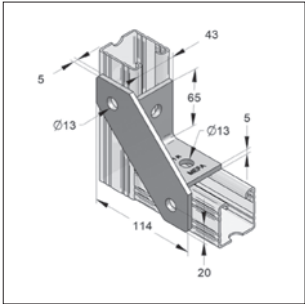
** Values in brackets only for M16 35 x 30 x 8

■ Universal knot

02



Universal knot
4-hole



Universal knot
2-hole

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

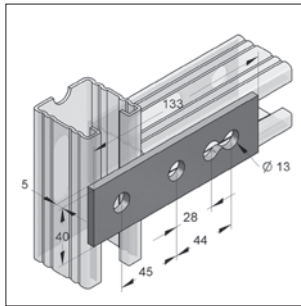
combination of knot triangle,
corner lug and corner angle
left and right

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

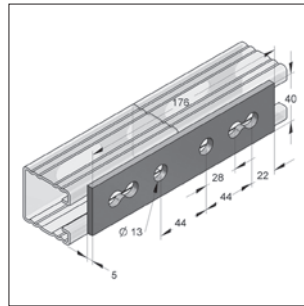
Remark: admissible loads are depending on connection.
¹⁾Remark: torque free rail connection.

Identification	Specification	Weight	Packing	Part-No.
		[kg/pc.]	[pcs.]	
Universal knot	4-hole	0,826	10	08141602
Universal knot ¹⁾	2-hole	0,460	25	08141603

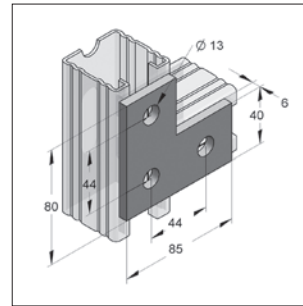
Flat connector



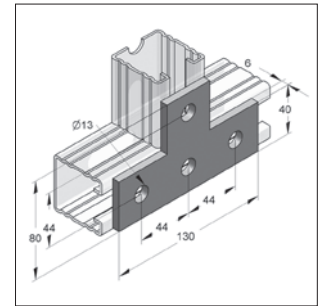
3-hole flat connector 40/5



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

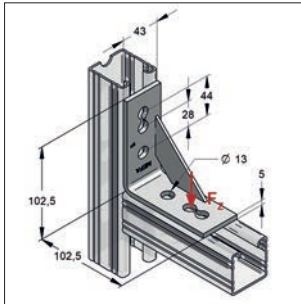
Technical data:

Material: steel
Material type: S235JR
Surface: galvanized

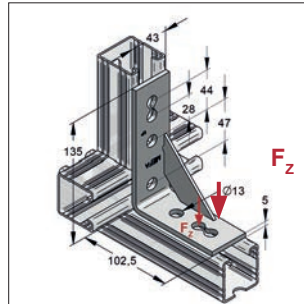
Remark: torque free rail connection

Identification	Dimension [mm]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
3-hole flat connector 40/5	133 x 40 x 5	0,192	25	0814331
4-hole flat connector 40/5	176 x 40 x 5	0,250	25	0814349
Flat connector 40/6 L-shape	85 x 80 x 6	0,221	25	0814307
Flat connector 40/6 T-shape	130 x 80 x 6	0,301	25	0814315

Knot triangle



4-hole knot triangle 40/5



5-hole knot triangle 43/5

Specification:

Profile rail type: rail system 45

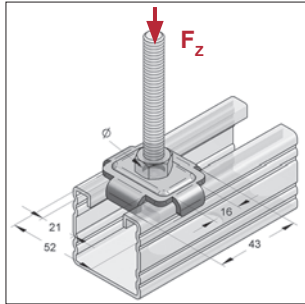
Technical data:

Material: steel
Material type: S235JR
Surface: galvanized

¹⁾ loads referring to component, not to connection²⁾ loads referring to component, double-sided fixed on profile

Identification	Dimension L x W [mm]	Load		Weight [kg/pc.]	Packing [pcs.]	Part-No.
		$F_z^{1)}$	$F_z^{2)}$			
		without profile rail [kN]	with profile rail [kN]			
4-hole knot triangle 40/5	102,5 x 102,5	2,0	6,0	0,351	25	08140702
5-hole knot triangle 43/5	135 x 102,5	2,0	6,0	0,401	25	08141702

Profile holder combi



Profile holder combi

Specification:

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

Technical data:

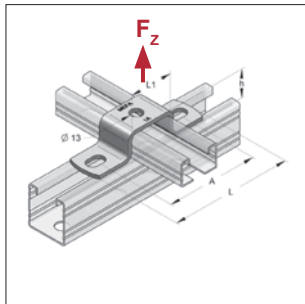
Material: steel
Material type: S235JR
Surface: galvanized

*cannot be designed according to fire protection calculation

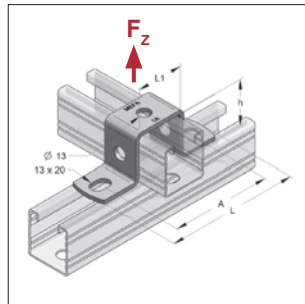
For profile rail 35, 45 and Stex 35

Identification	Tightening torque	Load F_z	Hole-Ø	Weight	Packing	Part-No.
	[Nm]	[kN]	[mm]	[kg/pc.]	[pcs.]	
Profile holder combi 11*	10	4,7	11,0	0,049	100	08095035
Profile holder combi 13	10	4,7	13,0	0,047	100	08162945
Profile holder combi 17	10	4,7	17,0	0,046	100	08163365

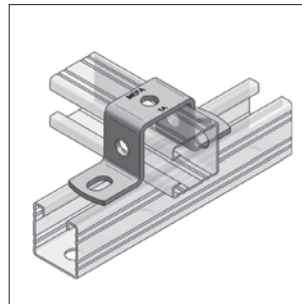
Head profile



Head profile



Head profile 45/45



Rail turned 90°

Specification:

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

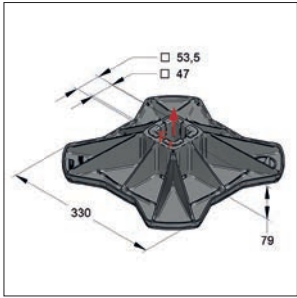
Technical data:

Material: steel
Material type: S235JR
Surface: galvanized

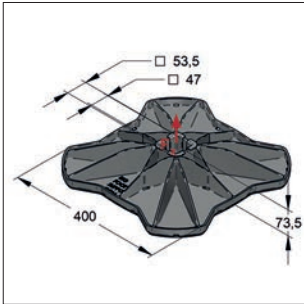
Identification	Suitable for profile rail	L	A	L1	h	Load F_z	Material thickness	Weight	Packing	Part-No.
		[mm]	[mm]	[mm]	[mm]	[kN]	[mm]	[kg/pc.]	[pcs.]	
Head profile 26	45/26	130	105	46	26	3,5	4	0,176	25	08162326
Head profile 45	45/45	130	105	46	45	3,5	4	0,208	25	08162445
Head profile 52	45/52-D	130	105	46	52	3,5	4	0,235	25	08162452
Head profile 60	45/60	130	105	46	60	3,5	4	0,253	25	0816253
Head profile 75	45/75	130	105	46	75	3,5	4	0,286	25	08162875
Head profile 90	45/90-D	130	105	46	90	3,5	4	0,313	25	08162690
Head profile 120	45/120-D	130	105	46	120	3,5	4	0,387	25	0816274
Head profile 150	45/150-D	130	105	46	150	3,5	4	0,454	1	081628150

02

Rooftop holder BIG FOOT®



Rooftop holder BIG FOOT® 330



Rooftop holder BIG FOOT® 400

Specification:
Profile rail type: 45/45
Application area: For elevating supporting structures on flat roofs
Specification: BIG FOOT® with bonded EPDM underlay and integrated water drainage
Rooftop holder complete consists of: 1 x feet, 1 x adapter for rail system 45 (Part-No. 08197614)

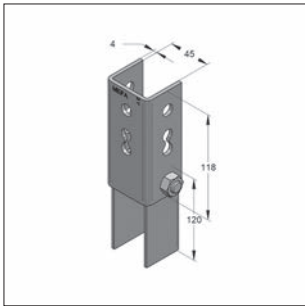
Technical data:
Material: Plastic
holder feet: polyamide 6
Underlay: EPDM
temperature-resistance: -20°C up to +80°C

Recommended accessories: Separating fleece as additional protection for the roof cladding. Angled bases are available to equalise roof slopes.

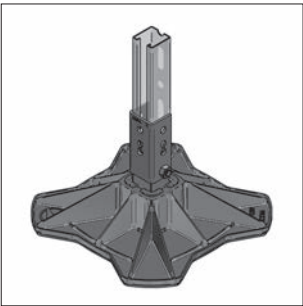
Note: Permissible floor load has to be checked by the customer. Wind and snow loads must be considered separately.

Identification	Dimension holder feet	Surface	Load* F _z	Weight	Packing	Part-No.
	[mm]	[cm ²]	[kN]	[kg/pc.]	[pcs.]	
BIG FOOT® complete 330	330 x 330	828,62	7,5	1,0	2	08197624
BIG FOOT® complete 400	400 x 400	1246,08	7,5	1,9	2	08197625

Joint adapter for BIG FOOT®



Joint adapter for BIG FOOT®



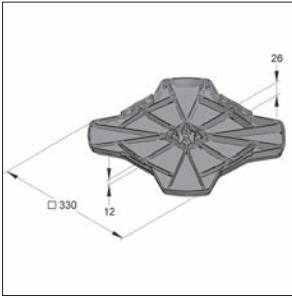
Assembly

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

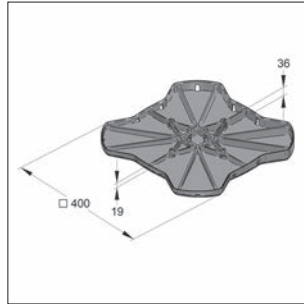
Technical data:
Material: steel
Material name: S235JR
Surface screw: zinc-nickel

Identification	Weight	Packing	Part-No.
	[kg/pc.]	[pcs.]	
Joint adapter for BIG FOOT®	0,88	1	08197623/zn

■ Angled base for BIG FOOT®



Angled base for BIG FOOT® 330



Angled base for BIG FOOT® 400

Specification:

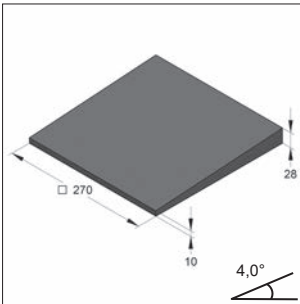
Application area: Accessories for Rooftop holder BIG FOOT® to equalize roof slopes.
Recommended accessories: Separating fleece as additional protection for the roof cladding.

Technical data:

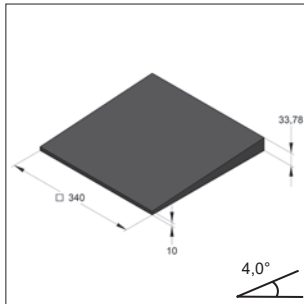
Material: Polyamid 6
Contact surface: EPDM
temperature-resistance: -40°C bis +80°C

Identification	Surface [cm²]	Inclination [°]	Dimension [mm]	Weight [kg/pc.]	VPE [pcs.]	Part-No.
Angled base for BIG FOOT® 330	828,62	2,5	330 x 330	0,6	1	08197628
Angled base for BIG FOOT® 400	1246,08	2,5	400 x 400	1,2	1	08197629

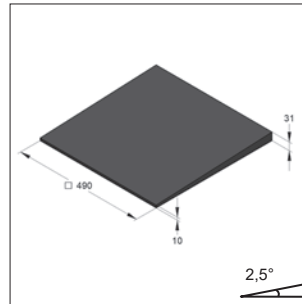
■ Universal wedge



Rooftop holder rubber wedge 4°



Universalkeil 340 x 340 4,0°



Universalkeil 490 x 490 2,5°

Specification:

Application area: To equalise roof pitches.

Technical data:

Material: Rubber

Identification	Dimension L x B	suitable for	Inclination	Weight [kg/pc.]	VPE [pcs.]	Part-No.
Rooftop holder rubber wedge	270 x 270	Rooftop holder 45	4°	1,73	1	08197598
Universal wedge 340x 340	340 x 340	BIG FOOT® 305	4°	2,25	1	08197604
Universal wedge 490x 490	490 x 490	BIG FOOT® 400 and rooftop holder XL 80	2,5°	4,47	1	08197617

■ Separation fleece for rooftop holder

02

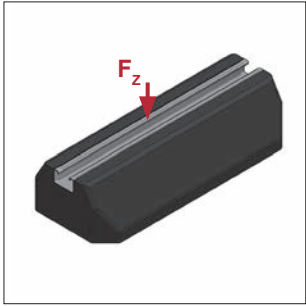


Seperation fleece for rooftop holder

Specification:		Technical data:	
Application area:	Recommended for installation on roofs with PCV roofing membrane in order to minimise the to prevent the transfer of plasticisers in the roofing membrane.	Material	Plastic

Identification	Dimension [mm]	suitable for	color	Weight [kg/pc.]	VPE [pcs.]	Part-No.
Seperations fleece	270 x 270 x 3,5	Rooftop holder 45	black	0,0310	1	0819759701
Seperations fleece	345 x 345 x 3,5	BIG FOOT® 305	black	0,0300	1	08197603
Seperations fleece	600 x 600 x 3,5	BIG FOOT® 400 and rooftop holder XL 80	white	0,0890	1	08197618

■ Rooftop Multi Support



Rooftop Multi Support

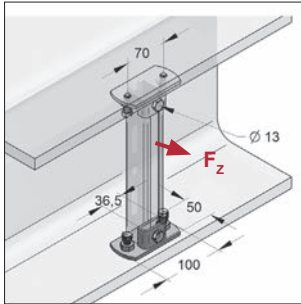
Specification:		Technical data:	
Application area:	For easy fixing of devices and ventilation lines and -ducts on flat roofs or direct fixing of devices. Recessed aluminum rail (40 x 20 mm) allows easy assembly while at the same time damping structure-borne noise.	Material	
		holder:	recycled, UV-resistant rubber SBR
		rail:	aluminum
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.	temperature-resistance:	-40°C up to +80°C
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.		

Recommended accessories: Tooth plate S with zinc-nickel coating

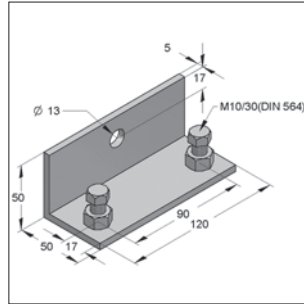
* Permissible floor load has to be checked by the customer. Wind and snow loads must be considered separately.

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

Beam clamping



Girder clamping 35



Girder clamping L 45

Load on girders at a length of ≤ 400 mm

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

Specification:

Profile rail type:
Application area:

35/21, Stex 35/35, Stex 35/42, 45/45
for clamped fixation
at steel girder
(IPE 120 or U 160)

Technical data:

Material: steel
Material type: S235JR
Surface: galvanized

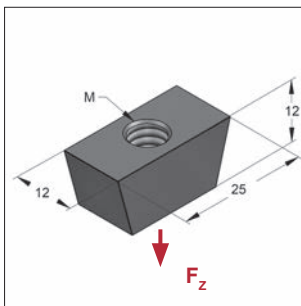
Assembly instruction:

Recommended accessory:

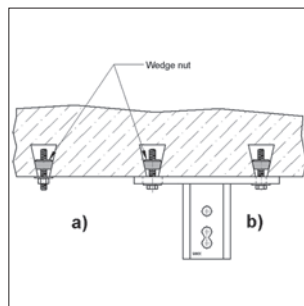
tightening torque 10 Nm. For a rail fastening two girder clampings are required.
threaded square plate 35x30 (Beam clamping device L 45)
threaded square plate 30x22 (Beam clamping device 35)

Identification	For profile rail	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Beam clamping 35	35/21, Stex 35/35, Stex 35/42	0,301	20	9999695
Beam clamping L 45	45/45	0,519	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 125 (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)
- 4 washer DIN 125 (8,4 or 10,5)

Specification:

Application area:

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

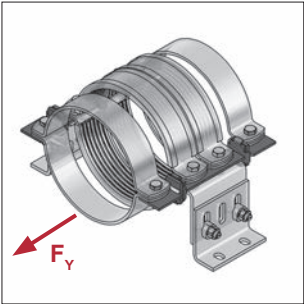
Technical data:

Material: GTW
Surface: galvanized

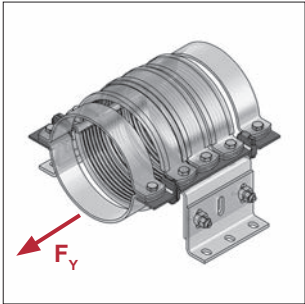
* load of HOLORIB-ceiling (system: Montana) is 9 kN/m² and max.4 fixing points per m².

Identification	Load F_z * [kN]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Wedge nut, female thread M8	1,50	0,0213	100	0819715
Wedge nut, female thread M10	2,25	0,0194	100	0819722

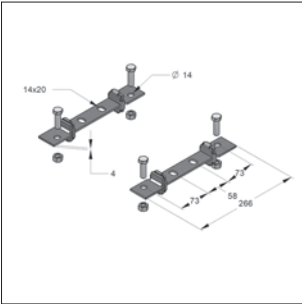
■ Sound-decoupling set FPH



Sound-decoupling set FPH
short HV 1



Sound-decoupling set FPH
long HV 2 - 4



Sound-decoupling set FPH

Specification:

Application area: For sound decoupling of fixpoint bracket
Scope of supply: 4x pressure pieces, 2 x stops, 4x Hex. screws,
4x nuts M12

Needed

accessory: Suitable Titan HD pipe clamps without connection thread,
see chapter 1. The outer pipe clamps without insulation and the
inner pipe clamps with insulation. (Pipe clamps also available in
hot-dip galvanized)

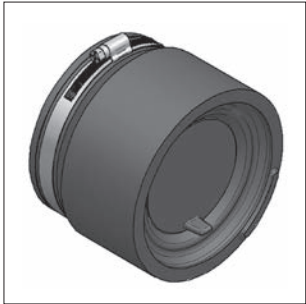
Technical data:

Material steel
Surface hot-dip galvanized
Temperature resistance: -35°C to +100°C

Note: permissible load F_z depends on the fixpoint bracket

Description	Suitable for	Load F_y kN	Weight [kg/set]	Packing [set]	Part-No.
short	HV1	10	1,39	1	0020007
long	HV2, HV3, HV4	10	1,49	1	0020008

SIMA-CON reducing connector



SIMA-CON

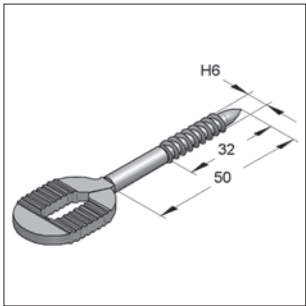
3b

Specification:		Technical data:	
Connector type:	reducing connector	Material	rubber cuff: EPDM lining
Application area:	for connecting pipes of PE and HT according to DIN 19535 and all pipes according to DIN 19 560 on SML-piping system according to DIN 19 522	Temperature resistance:	- 35 °C up to + 100 °C
Nominal width:	DN 50 up to 125	Material pipe clamp	stainless steel
OD:	40 up to 125 mm	Materials:	1.4016
Pressure load:	tested up to 0,5 bar	Screw:	cross slot, SW7
Sound insulation lining according to:	DIN 4060 of EN 877 DIN 19 522	Tightening torque:	2 Nm
		Manufacturer identification:	EK-Fix-Verbinder

Identification	Nominal width SML-pipe [DN]	Connecting pipe OD [mm]	Plug-in depth [mm]	Overall height [mm]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
SIMA-CON	50	40-56	42	63	0,138	50	4475050
SIMA-CON	70	56-75	55	77	0,180	50	4475070
SIMA-CON	100	104-110	65	95	0,350	20	4475100
SIMA-CON	125	125	75	103	0,430	10	4475125

 assembly instruction see chapter 15

Elongated hole screw



Elongated hole screw

Specification:		Technical data:	
Version:	with wood thread	Material:	steel
		Surface:	galvanized

Identification	Thread	Weight [kg/pc.]	Packing [pcs.]	Part-No.
Elongated hole screw	H 6	0,018	100	1140019

Countersunk woodscrew

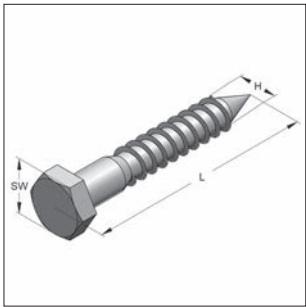


Countersunk woodscrew

Specification:		Technical data:	
Version:	Countersunk woodscrew with TX-drive	Material:	steel
		Surface:	galvanized

Identification	Dimension		TX-drive	Head Ø [mm]	Recommended anchor	Weight [kg/pcs.]	Packing [pcs.]	Part-No.
	H [mm]	L [mm]						
Countersunk woodscrew	4,0	40	20	8,0	K2 5x25 K2 6x33	0,0022	1000	372040040
Countersunk woodscrew	4,5	45	20	9,0	K2 6x33 K2 8x44	0,0032	500	372045045
Countersunk woodscrew	5,0	50	25	10,0	K2 8x44	0,0044	500	372050050
Countersunk woodscrew	6,0	60	30	12,0	K2 10x44 K2 10x60	0,0075	200	372060060

Hexagon-woodscrew

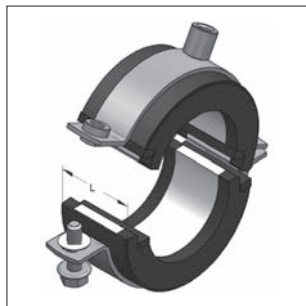


Hexagon-woodscrew

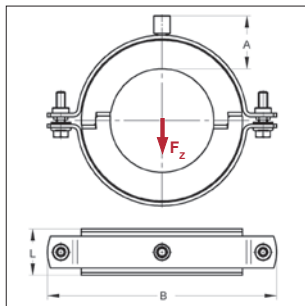
Specification:		Technical data:	
according to DIN EN ISO 571		Material:	steel
Version:	With wood thread.	Surface:	galvanized

Identification	Thread		Wrench size SW	Suitable anchor K2	Weight [kg/pc.]	Packing [pcs.]	Part-No.
	H	L [mm]					
Hexagon-woodscrew	6	60	10	8x44	0,0112	200	3100104
Hexagon-woodscrew	8	50	13	10x44	0,018	200	3100228
Hexagon-woodscrew	8	70	13	10x60	0,024	200	3100279

■ Polar plus insulated pipe clamp



Polar plus insulated pipe clamp
(with clamp Maxima PSM)



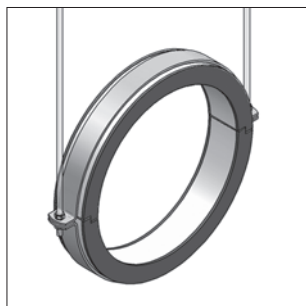
The insulated pipe clamps of MEFA are special designed on customer request, no exchange or return.

Customized demand on request!

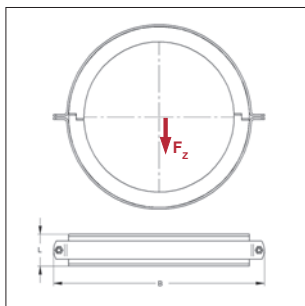
* Delivery time on request

Insulation thickness 40 mm

Steel [mm]	OD		Pipe clamp type	Connection	Dimension		Load F_z^{**} [kN]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
	Copper [mm]	Plastic [mm]			A [mm]	B [mm]				
108,0*			Maxima PSM	M10/M12	67	265	1,68	1,059	10	74641080
		110*	Maxima PSM	M10/M12	66	265	1,71	1,056	10	74641100
114,3			Maxima PSM	M10/M12	64	265	1,77	1,055	1	74641140
		125*	Maxima PSM	M10/M12	66	278	1,94	1,117	1	74641250
133,0*			Maxima PSM	M10/M12	66	287	2,06	1,153	1	74641330
139,7			Maxima PSM	M10/M12	67	297	2,17	1,198	1	74641400
159,0*			Maxima PSM	M10/M12	67	315	2,47	1,277	1	74641590
		160*	Maxima PSM	M10/M12	66	315	2,48	1,275	1	74641600
168,3			Titan HD	M16	56	330	3,62	2,225	1	746416802
219,1			Titan HD	M16	55	380	4,71	2,603	1	746421903
273,0			Titan HD	M16	56	428	5,87	3,025	1	746427302
323,9			Titan HD	M16	56	486	6,96	3,413	1	746432404



Polar plus insulated pipe clamp
(with clamp Titan HD)



Insulation thickness 40 mm

OD Steel [mm]	Pipe clamp type	Ø Flange punch hole [mm]	Connection	Dimension		Load F_z^{**} [kN]	Weight [kg/pc.]	Packing [pc.]	Part-No.
				L [mm]	B [mm]				
355,6*	Titan HD	17	-	86	560	10,46	4,431	1	746445701
406,4*	Titan HD	17	-	86	610	11,65	4,035	1	746440601
457,0*	Titan HD	17	-	86	660	12,85	3,628	1	746440601

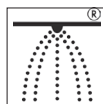
assembly instruction see chapter 15

** Allowable loads may be increased by 5 times without AGI requirements (load of clamps are to be considered, see chapter 1)

Screw anchor TSM Multiground



Screw anchor TSM Multiground



Specification

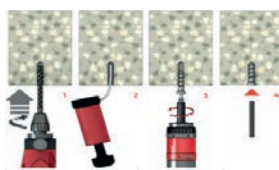
Product description: High-quality screw anchor with internal thread for various substrates and a wide range of applications. With ETA approval for multiple fixings in cracked and non-cracked concrete of grade C20/25 to C50/60. Suitable for masonry, aerated concrete and wood. Flush surface mounting using tangential impact screwdriver this also enables simple overhead mounting. Complies with the specifications for sprinkler installation. Secure hold and high loads thanks to special thread geometry. Small centre and edge distances of 40 mm allow for close to the edge and with minimal spacing. Removable if required.

Application area: for fastening and mounting metal structures and pipework in the HVAC sector

Technical data:

Material: steel
Surface: galvanized
Approval: ETA-23/0542 für for multiple fastening

Mounting instructions:



Tightening torque:
max. 180Nm

Accessories required: Impact-resistant socket with Torx drive

Female thread, galvanized

Type / thread	Length L	Drill-Ø d	SW	Min. drill hole	Anchoring- depth	Inside thread	Length female thread	Weight	Packing	Part-no.
	[mm]	[mm]		[mm]	[mm]		[mm]	[kg/pcs.]	[pcs.]	
TSM Multiground 10x40 M8x10 TX55	40	10	TX55	50	40	M8	10	2,0	100	2235650
TSM Multiground 12x40 M10x10 TX60	40	12	TX60	50	40	M10	10	2,7	100	2235651

Load values TSM concrete screws for multiple fastening

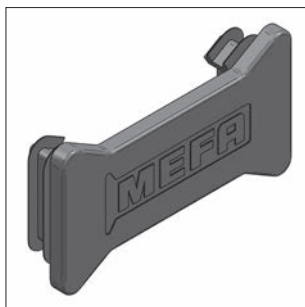
Technical values without fire exposure for multiple fastening

	TSM 10x40	TSM 12x40
Tension load in cracked concrete	2,8 kN	1,8 kN
Tension load in non-cracked concrete	3,8 kN	2,2 kN

Technical values with fire exposure for multiple fastening

Tension load R 30	0,9 kN	0,8 kN
Tension load R 60	0,9 kN	0,8 kN
Tension load R 90	0,9 kN	0,8 kN
Tension load R 120	0,7 kN	0,7 kN

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

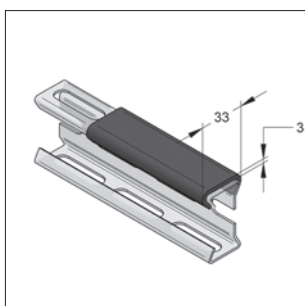
Packing
[pcs.]

50

Part-No.

0809055

SIGNUM Profile lining LP50



SIGNUM Profile lining LP50

Specification:

Profile rail type: SIGNUM LP50

Application area: Sound, dirt and insulation protection between rail and duct.

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

Identification

SIGNUM Profile lining LP50

Length

[m]

10

Dimension
width x thickness
[mm]

33 x 3

Weight

[kg/m]

0,221

Packing

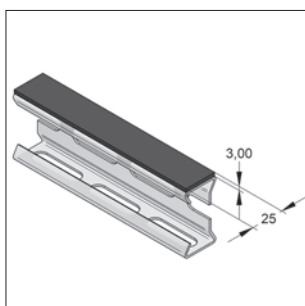
[m]

10

Part-No.

7100036

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

■ 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]	Weight [kg/roll]	Packing [rolls]	Part-No.
Duct sealing tape 9x4	9	4	20	0,0570	5	725110904
Duct sealing tape 12x4	12	4	20	0,0747	5	725111204
Duct sealing tape 15x4	15	4	20	0,0932	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:

Color: 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	Weight [kg/pcs.]	Packing [pcs.]	Part-No.
Duct sealing compound	310	cartridge	0,555	20	725100310

■ Cold shrink tape



Cold shrink tape

Specification:

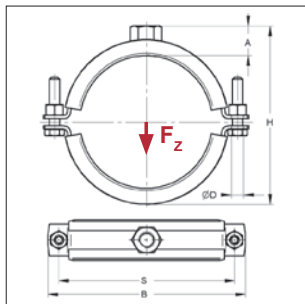
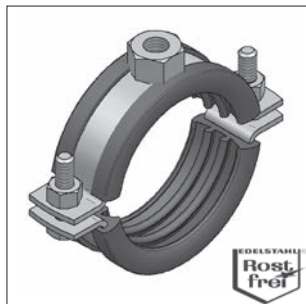
Application
area: sealing of ventilation ducts and folded spiral-seam pipe
Color: gray
Attributes: - cold self-adhesive butyl rubber glue
- coated with a stretchy PE foil

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]	Weight [kg/roll]	Packing [rolls]	Part-No.
Cold shrink tape	50	15	0,763	1	725120050
Cold shrink tape	75	15	1,14	1	725120070

Pipe clamp stainless steel, lined



Pipe clamp stainless steel
lined

Specification:

Closure:	Screwed closure
Construction method:	Two-part
OD:	15 - 410 mm
Connection:	M8, M10, M12, M16, without connection
Sound insulation:	According DIN 4109
Variant demand:	On request
Delivery time for variant demand:	5 working days, ex works

Technical Data:

Material:	stainless steel
Material type:	V4A V2A
Sound insulation lining:	Silicone (on request) TPE
Temperature resistance:	-50 °C up to +250 °C -35 °C up to +100 °C
Insulation thickness:	
Clamp OD ≤ 45 mm	3,5 mm
Clamp OD ≥ 47 mm	6,0 mm

- other sizes and connection threads on request -

Connection: Thread M8

Dimension			Material	Closure- screw	Load F _z	H (min-max)	A	B	S	ØD	Weight	Packing	Part-No.	Part-No.
[mm]	[Inch]	[mm]	[kN]			[mm]	[mm]	[mm]	[mm]	[mm]	[kg/pc.]	[pcs.]		
15 - 20	3/8	20x1,5	M6	0,75	31 - 35	11	56	43	6,5	0,060	50	0498174	0468174	
21 - 25	1/2	20x1,5	M6	0,75	36 - 40	11	61	48	6,5	0,064	50	0498175	0468175	
26 - 30	3/4	20x1,5	M6	0,75	41 - 45	11	66	53	6,5	0,069	50	0498176	0468176	
31 - 34	1	20x1,5	M6	0,75	46 - 50	11	72	59	6,5	0,072	50	0498177	0468177	
35 - 40		20x1,5	M6	0,75	51 - 56	11	78	65	6,5	0,077	50	0498178	0468178	
41 - 45	1 ^{1/4}	20x1,5	M6	0,75	58 - 65	11	86	73	6,5	0,084	50	0498179	0468179	

Connection: Thread M10

47 - 52	1 ^{1/2}	20x2,0	M6	0,95	69 - 74	16	96	82	6,5	0,126	50	0498210	0468210
53 - 57		20x2,0	M6	0,95	75 - 79	16	101	88	6,5	0,134	50	0498211	0468211
58 - 64	2	20x2,0	M6	0,95	80 - 86	16	108	94	6,5	0,144	50	0498212	0468212
65 - 70		20x2,0	M6	0,95	87 - 92	16	114	101	6,5	0,152	50	0498213	0468213
72 - 80	2 ^{1/2}	20x2,0	M6	0,95	94 -102	16	123	110	6,5	0,162	50	0498214	0468214
82 - 90	3	20x2,0	M6	0,95	104-112	16	134	120	6,5	0,175	50	0498215	0468215
93 - 100		20x3,0	M6	0,95	115-122	16	144	130	6,5	0,189	50	0498216	0468216
102 - 107		20x3,0	M6	0,95	124-129	16	152	138	6,5	0,199	50	0498217	0468217
108 - 116	4	20x3,0	M6	0,95	130-138	16	160	147	6,5	0,210	50	0498218	0468218

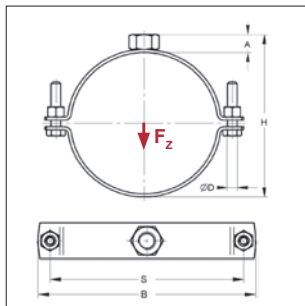
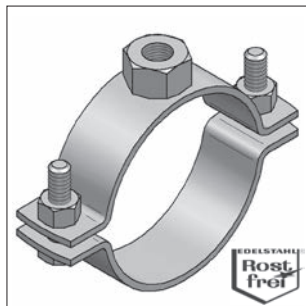
■ Pipe clamp stainless steel, lined

Connection: Thread M12				With sound insulation TPE								V4A	V2A
Dimension		Material	Closure-screw	Load F _z	H (min-max)	A	B	S	ØD	Weight	Packing	Part-No.	Part-No.
[mm]	[Inch]	[mm]		[kN]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg/pc.]	[pcs.]		
102 - 107		25x3,0	M8	1,75	129-134	20	171	150	9	0,368	50	0490317	0460317
108 - 116	4	25x3,0	M8	1,75	135-143	20	179	158	9	0,383	50	0490318	0460318
119 - 127		25x3,0	M8	1,75	146-154	20	190	169	9	0,408	50	0496319	0466319
128 - 132		25x3,0	M8	1,75	155-159	20	197	176	9	0,425	50	0496320	0466320
133 - 141	5	25x3,0	M8	1,75	160-168	20	205	184	9	0,438	50	0496321	0466321
142 - 149		25x3,0	M8	1,75	169-176	20	213	192	9	0,459	50	0496322	0466322
150 - 158		25x3,0	M8	1,75	177-185	20	222	201	9	0,476	50	0496323	0466323
159 - 163		25x3,0	M8	1,75	186-190	20	228	207	9	0,499	50	0496324	04663241
164 - 168	6	25x3,0	M8	1,75	191-195	20	233	212	9	0,504	50	0496325	04663242

Connection: Thread M16				With sound insulation TPE									
174 - 182		35x4,0	M10	4,00	204-212	24	265	236	11	1,015	1	0490426	0462426
192 - 200		35x4,0	M10	4,00	222-230	24	285	255	11	1,087	1	0490428	0462428
201 - 205		35x4,0	M10	4,00	231-235	24	290	261	11	1,123	1	0490429	0462429
206 - 214		35x4,0	M10	4,00	236-244	24	298	269	11	1,142	1	0490430	0462430
215 - 225	8	35x4,0	M10	4,00	255-265	24	309	280	11	1,178	1	0490431	0462431
241 - 248		35x4,0	M10	4,00	281-288	24	332	303	11	1,289	1	0492434	0462434
250 - 257		35x4,0	M10	4,00	280-287	24	341	312	11	1,322	1	0492435	0462435
272 - 277	10	35x4,0	M10	4,00	302-307	24	362	333	11	1,408	1	0492438	0462438

				With sound insulation TPE									
321 - 325	12	50x5,0	-	9,00	341-345	-	414	382	17	2,510	1	0494046	0464046
401 - 410	16	50x5,0	-	9,00	421-430	-	498	466	17	3,051	1	-	0464056

Pipe clamp stainless steel



Pipe clamp stainless steel

Specification:

Closure:	Screwed closure
Construction method:	Two-part
OD:	15 up to 410 mm
Connection:	M8, M10, M12, M16, without connection
Variant demand:	On request
Delivery time for variant demand:	5 working days, ex works

Technical data:

Material:	stainless steel
Material type:	V4A
	V2A

- other sizes and connection threads on request -

Connection: Thread M8

Dimension	Material	Closure-screw	Load F_z	H (min-max)	A	B	S	ØD	Weight	Packing	V4A Part-No.	V2A Part-No.
[mm] [Inch] [mm]			[kN]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg/pc.]	[pcs.]		
15 - 20 3/8	20x1,5	M6	0,80	25 - 30	8	49	36	6,5	0,051	50	0499175	0469175
21 - 25 1/2	20x1,5	M6	0,80	31 - 35	8	56	43	6,5	0,054	50	0499176	0469176
26 - 30 3/4	20x1,5	M6	0,80	36 - 40	8	61	48	6,5	0,058	50	0499177	0469177
31 - 35 1	20x1,5	M6	0,80	41 - 45	8	66	53	6,5	0,060	50	0499178	0469178
36 - 40	20x1,5	M6	0,80	46 - 50	8	72	59	6,5	0,064	50	0499171	0469171
41 - 46 1 1/4	20x1,5	M6	0,80	51 - 56	8	78	65	6,5	0,066	50	0499179	0469170

Connection: Thread M10

48 - 55 1 1/2	20x2,0	M6	1,50	60 - 67	10	87	74	6,5	0,097	50	0499210	0469210
57 - 62 2	20x2,0	M6	1,50	69 - 74	10	96	82	6,5	0,103	50	0499212	0469212
63 - 67	20x2,0	M6	1,50	75 - 79	10	101	88	6,5	0,110	50	0499211	0469211
68 - 74	20x2,0	M6	1,50	80 - 86	10	108	94	6,5	0,115	50	0499213	0469213
75 - 80 2 1/2	20x2,0	M6	1,50	87 - 92	10	114	101	6,5	0,118	50	0499214	0469214
82 - 90 3	20x2,0	M6	1,50	94 - 102	10	113	110	6,5	0,127	50	0499215	0469215
92 - 100	20x2,0	M6	1,50	104 - 112	10	134	120	6,5	0,135	50	0499216	0469216
103 - 110	20x2,0	M6	1,50	115 - 122	10	144	131	6,5	0,144	50	0499217	0469217
112 - 117 4	20x2,0	M6	1,50	124 - 129	10	152	138	6,5	0,151	50	0499218	0469218

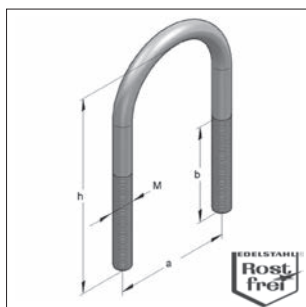
Connection: Thread M12

103 - 110	25x3,0	M8	3,20	120 - 127	14	163	142	9,0	0,295	50	0491317	0461317
112 - 117 4	25x3,0	M8	3,20	129 - 134	14	171	150	9,0	0,313	50	0491318	0461318
118 - 126	25x3,0	M8	3,20	135 - 143	14	179	158	9,0	0,321	50	0497319	0467319
129 - 137	25x3,0	M8	3,20	146 - 154	14	190	169	9,0	0,339	50	0497320	0467320
138 - 142 5	25x3,0	M8	3,20	155 - 159	14	197	176	9,0	0,356	50	0497321	0467321
143 - 151	25x3,0	M8	3,20	160 - 168	14	205	184	9,0	0,367	50	0497322	0467322
152 - 159	25x3,0	M8	3,20	169 - 176	14	213	192	9,0	0,379	50	0497323	0467323
160 - 168 6	25x3,0	M8	3,20	177 - 185	14	222	201	9,0	0,397	50	0497324	0467324

■ Pipe clamp stainless steel

Connection: Thread M16												V4A	V2A
Dimension		Material	Closure-screw	Load F_z	H (min-max)	A	B	S	ØD	Weight	Packing	Part-No.	Part-No.
[mm]	[Inch]	[mm]		[kN]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg/pc.]	[pc.]		
169 - 173		35x4,0	M10	7,20	192-196	19	247	218	11,0	0,825	1	04934251	04634251
174 - 178		35x4,0	M10	7,20	197-201	19	252	223	11,0	0,843	1	04934252	04634252
193 - 200		35x4,0	M10	7,20	216-223	19	274	245	11,0	0,905	1	0493428	0463428
202 - 210		35x4,0	M10	7,20	225-233	19	284	255	11,0	0,933	1	0493429	0463429
211 - 215		35x4,0	M10	7,20	234-238	19	290	261	11,0	0,955	1	0493430	0463430
216 - 224	8	35x4,0	M10	7,20	239-247	19	298	269	11,0	0,972	1	0493431	0463431
244 - 250		35x4,0	M10	7,20	267-273	19	324	295	11,0	1,068	1	0493434	0463434
251 - 258		35x4,0	M10	7,20	274-281	19	332	303	11,0	1,093	1	0493435	0463435
272 - 280	10	35x4,0	M10	7,20	295-303	19	354	325	11,0	1,160	1	0493438	0463438
Without connection, closurescrew													
321 - 325	12	50x5,0	-	13,00	331-335	-	404	372	17,0	2,100	1	0495046	0465046
356 - 360	14	50x5,0	-	13,00	366-370	-	439	407	17,0	2,300	1	0495051	0465051
401 - 410	16	50x5,0	-	13,00	411-420	-	488	456	17,0	2,556	1	-	0465056

■ 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

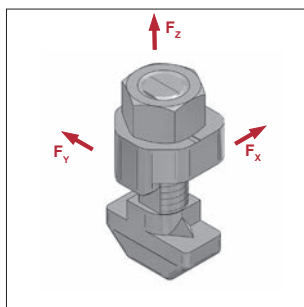
Technical data:

Material: stainless steel
Material type: V4A

Required accessories: washers and nuts

For max. profile rail height 45 mm											V4A
Description	Nominal width [DN]	Thread M	OD		a	h	b	OD	Weight	Packing	Part-No.
			[mm]	[Inch]	[mm]	[mm]	[mm]	[mm]	[kg/pc.]	[pc.]	
U-bolt	15	M8	21,3	1/2	30	85	70	22	0,064	1	050602201
U-bolt	20	M8	25,0		35	85	70	27	0,065	1	050602701
			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	140	75	77	0,172	1	050607601
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® 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
 Application: C-profile connector (at hole $\varnothing \geq 14$ mm)

Technical data:

Material: steel
 Surface: zinc-nickel

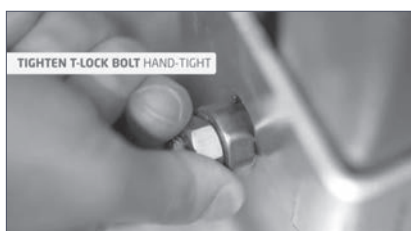
Identification	Thread	Length thread [mm]	Property class	Weight [kg/pc.]	Packing [pcs.]	Part-No.
CENTUM® T-lock plus M12 x 40	M12	40	10.9	0,113	50	1610011001

CENTUM® T-lock plus



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

Fixation:



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



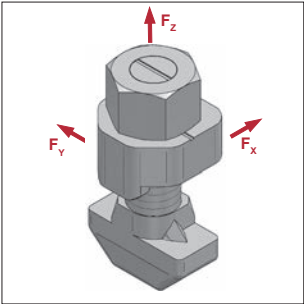
Wrench size 19 mm.
Recommended torque XL 80: 90 Nm.
Recommended torque XL 100: 120 Nm.

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

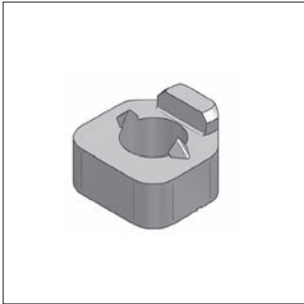
Load values and tightening torques CENTUM® T-Lock / T-Lock plus

Profile	F_x [kN]	F_y [kN]	F_z [kN]	Tightening torque [Nm]
XL 80	16,0	19,5	3,0	90
XL 100	16,0	19,5	3,0	120
XL 120	16,0	19,5	4,0	120
XL 120s	16,0	19,5	6,0	120
XL 200	16,0	19,5	6,0	120
XL 200 horizontal	16,0	19,5	4,0	120

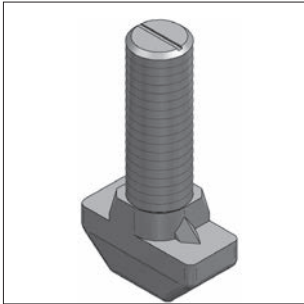
CENTUM® T-lock



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
Application: C-profile connector (at hole Ø ≥ 14 mm)

Technical data:

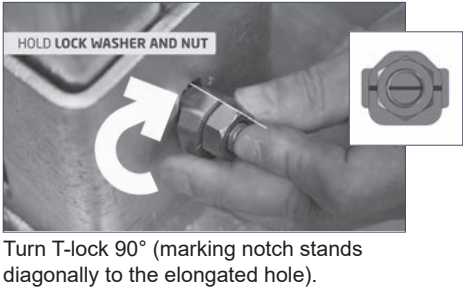
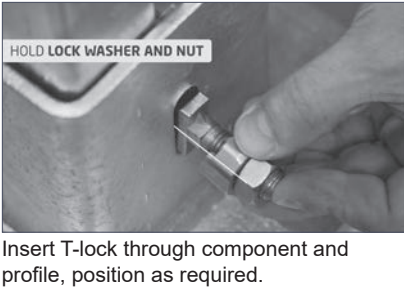
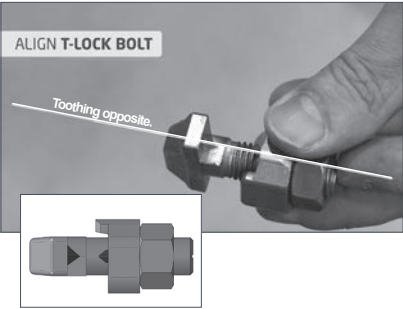
Material: steel
Surface: zinc-nickel

Identification	Property class	Weight [kg/pc.]	Packing [pcs.]	Part-No.
CENTUM® T-lock M12x40	10.9	0,120	50	1610011000
consisting of:				
CENTUM® Lock washer	10	0,031	100	1610019000/zn
CENTUM® T-lock bolt	10.9	0,064	50	1610012100/zn
CENTUM® hex nut M12 FK10, DIN 934	10	0,017	100	8989995/zn

Load values and tightening torques for CENTUM® T-Lock / T-Lock plus see page 14/5.

Assembly instruction for CENTUM® T-lock

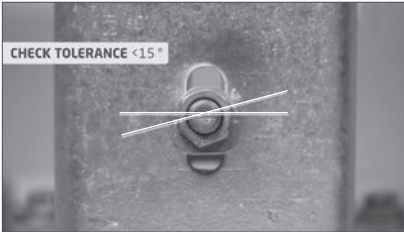
Positioning:



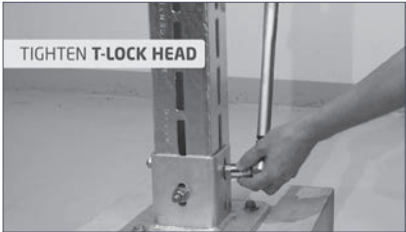
Adjustment:



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

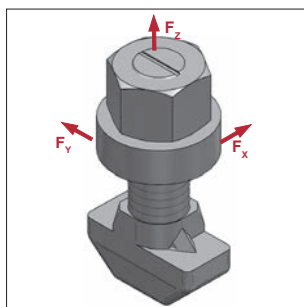


Fixation:

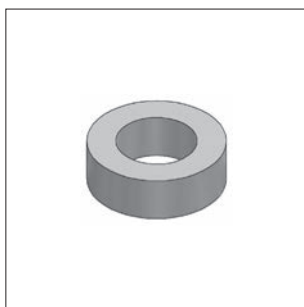


Wrench size 19 mm.
Recommended torque XL 80: 90 Nm.
Recommended torque XL 100: 120 Nm.
T-lock must not be used again after dismantling.

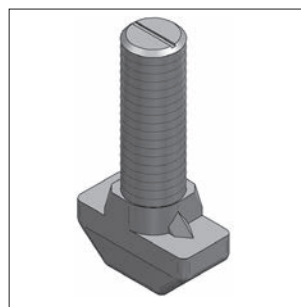
■ CENTUM® T-bolt, with steel disk



CENTUM® T-bolt



CENTUM® steel disk



CENTUM® T-lock

Specification:

For profile type: XL 80, XL 100, XL 120 and XL 200
 Features: Frictional connection
 Application: C-profile connector

Technical data:

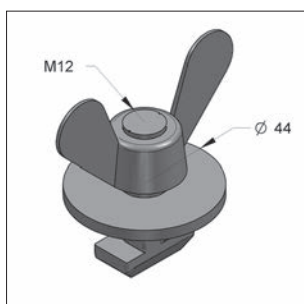
Material: steel
 Surface: zinc-nickel

Identification	Thread	Length thread [mm]	Property class	Weight [kg/pc.]	Packing [pcs.]	Part-No.
CENTUM® T-bolt M12x40 consisting of:	M12	40	10.9	0,100	50	1610012000
CENTUM® steel disk			4.6	0,019	100	1610019100/zn
CENTUM® T-lock bolt	M12	40	10.9	0,064	50	1610012100/zn
CENTUM® Hexagon nut M12 FK10, DIN 934	M12		10	0,017	100	8989995/zn

Load values and tightening torques CENTUM® T-bolt, with steel disk

Profile	F_x [kN]	F_y [kN]	F_z [kN]	Tightening torque [Nm]
XL 80	3,0	19,5	3,0	90
XL 100	3,0	19,5	3,0	120
XL 120	3,0	19,5	4,0	120
XL 120s	3,0	19,5	6,0	120
XL 200	3,0	19,5	6,0	120
XL 200 horizontal	3,0	19,5	4,0	120

■ CENTUM® FixBOB



CENTUM® FixBOB

Specification:

Application area: Adjustment aid for CENTUM® assembly parts
 Features: Wing nut with hammer head
only for fixing CENTUM® components

Technical data:

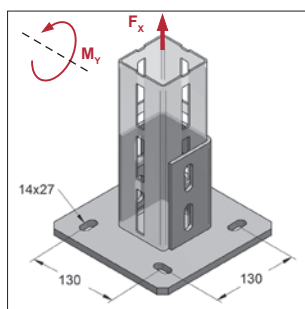
Material: steel
 Surface: galvanized / painted red

14

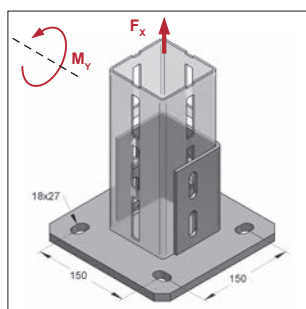
Identification	Thread	Weight [kg/pc.]	Packing [pcs.]	Part-No.
CENTUM® FixBOB	M12	0,139	10	1610013000

For assembly instructions, see Chapter 15.

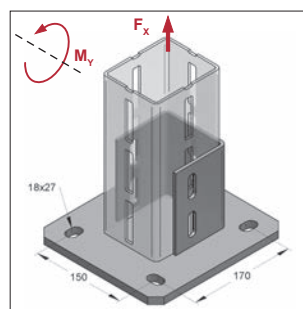
CENTUM® Holder



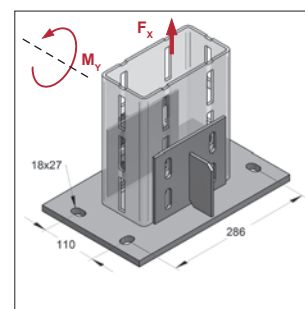
CENTUM® Holder XL 80



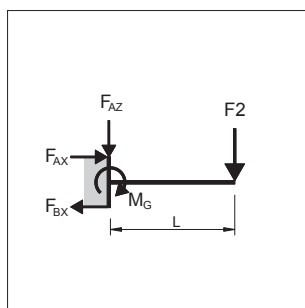
CENTUM® Holder XL 100



CENTUM® Holder XL 120



CENTUM® Holder XL 200



$$M_G = F_2 \times L$$



Specification:

For profile type: XL 80, XL 100, XL 120 and XL 200
Scope of supply: CENTUM® T-lock plus M12 x 40

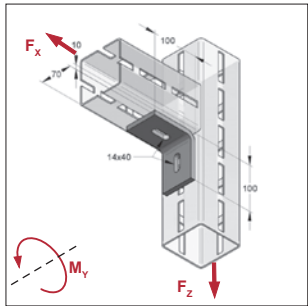
Technical data:

Material: steel
Material type: S235JR
Surface: hot-dip galvanized

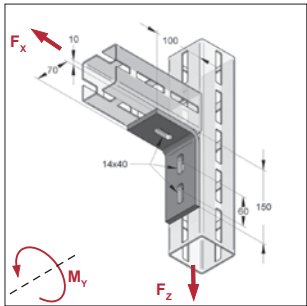
Note: The load specifications apply for at least one screw connection per profile side / for XL 200 two screw connections per profile side.
The limit torques apply from at least 5 screw connections / for XL 200 from at least 4 screw connections.

Identification	Load* F_x [kN]	Limited torque M_y [kNm]	Plate-width [mm]	Plate-length [mm]	Plate-thickness [mm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
CENTUM® Holder XL 80	48	4,2	200	200	10	4,48	1	1620801000
CENTUM® Holder XL 100	48	5,2	220	220	12	6,15	1	1621001000
CENTUM® Holder XL 120	48	5,2	220	240	12	6,71	1	1621201000
CENTUM® Holder XL 200	64	5,2	220	340	12	9,57	1	1622001000

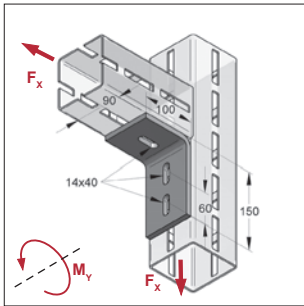
CENTUM® Angles - corner connector



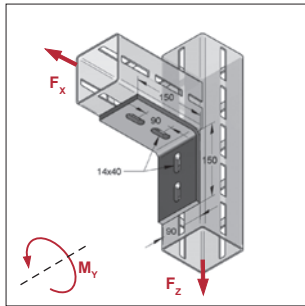
CENTUM® 2-hole angle
XL 80



CENTUM® 3-hole angle
XL 80



CENTUM® 3-hole angle
from XL 100



CENTUM® 4-hole angle
from XL 100

Specification:

For profile type: XL 80, XL 100, XL 120 and XL 200
Required accessory: CENTUM® T-lock plus M12 x 40

Technical data:

Material: steel
Material type: S235JR
Surface: hot-dip galvanized

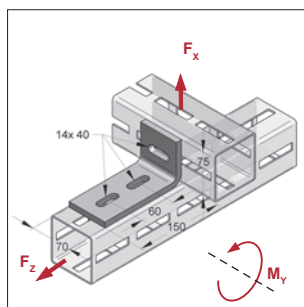
* By using of all screw holes

Remark: Always align elongated holes of components in direction of elongated holes of CENTUM® profile.

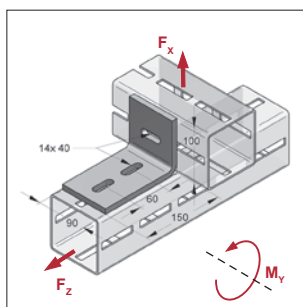


Identification	Load		Limited torque M_y^* [kNm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
	F_x [kN]	F_z [kN]				
CENTUM® 2-hole angle XL 80	3,0	16	0,40	1,02	1	1640081005
CENTUM® 3-hole angle XL 80	5,2	32	0,40	1,28	1	1640081010
CENTUM® 3-hole angle from XL 100	6,0	32	0,50	1,68	1	1640001010
CENTUM® 4-hole angle from XL 100	6,0	32	0,50	2,02	1	1640001020

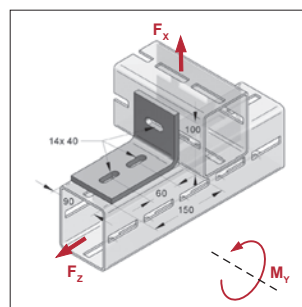
■ CENTUM® Angles horizontal - cross connector



CENTUM® 3-hole angle
horizontal XL 80



CENTUM® 3-hole angle
horizontal XL 100



CENTUM® 3-hole angle
horizontal XL 120

Specification:

For profile type: XL 80, XL 100, XL 120 and XL 200

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

Technical data:

Material: steel

Material type: S235JR

Surface: hot-dip galvanized

* By using of all screw holes

Remark: Always align elongated holes of components in direction of elongated holes of CENTUM® profile.



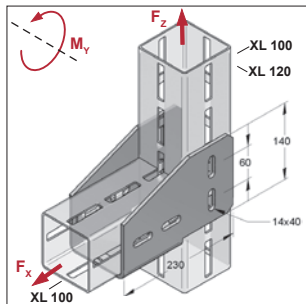
Identification	Weight	Packing	Part-No.
	[kg/pc.]	[pc.]	
CENTUM® 3-hole angle horizontal XL 80	1,13	1	1640081012
CENTUM® 3-hole angle horizontal XL 100	1,68	1	1640001012
CENTUM® 3-hole angle horizontal XL 120	1,68	1	1641201012

CENTUM® Angles horizontal - cross connector - loads and torques

Profile	Load F_x [kN]	Load F_y [kN]	Limited torque M_y [kNm]
XL 80	6,0	32,0	0,4
XL 100	6,0	32,0	0,5
XL 120	6,0	32,0	0,5
XL 120s	12,0	32,0	0,5
XL 200	12,0	32,0	0,5

Limit torque applies when all screw holes are used.

CENTUM® Angle-shoe XL



CENTUM® Angle-shoe XL 100

Specification:

For profile type: XL 100
High-strength corner connection with profile support
Required accessory: CENTUM® T-lock plus M12 x 40

Technical data:

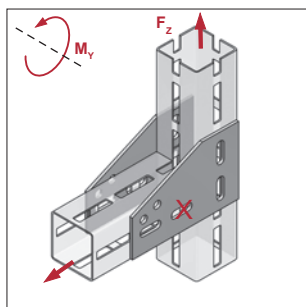
Material: steel
Material type: S235JR
Surface: hot-dip galvanized

* By using of all screw holes

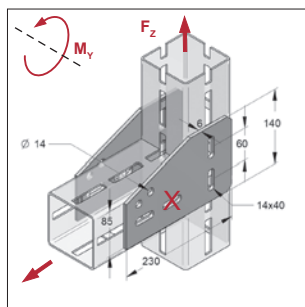

Identification

	Load		Limited torque	Weight	Packing	Part-No.
	F_x [kN]	F_z [kN]	M_y^* [kNm]	[kg/pc.]	[pc.]	
CENTUM® Angle-shoe XL 100	64	64	2,34	3,57	1	1641002010

CENTUM® Corner plate



CENTUM® Corner plate

CENTUM® Corner plate L
from XL 100
Specification:

For profile type: XL 80, XL 100, XL 120 and XL 200
Required accessory: CENTUM® T-lock M12/40 or CENTUM® T-lock plus M12 x 40

Technical data:

Material: steel
Material type: S235JR
Surface: hot-dip galvanized

* By using of all screw holes

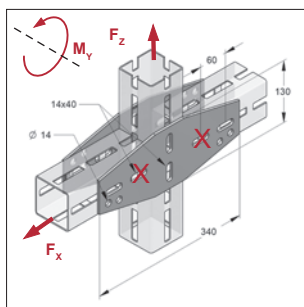
Remark: Limit torque applies when all screw holes are used. For $M_y = 0$, one screw per profile side at X.

Only the CENTUM® T-bolt, with steel disk can be installed in the round hole.

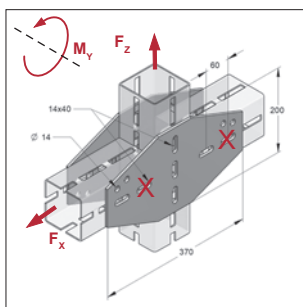
Identification

	Profile type	Load		Limited torque	Weight	Packing	Part-No.
		F_x [kN]	F_z [kN]	M_y [kNm]	[kg/pc.]	[pc.]	
CENTUM® Corner plate XL 80 (use in pairs)	XL 80	64	64	2,34	0,92	1	1640083010
CENTUM® Corner plate L (use in pairs)	from XL 100	64	64	2,34	1,38	1	1640003010

CENTUM® Cross plate



CENTUM® Cross plate
XL 80



CENTUM® Cross plate
from XL 100



Specification:

For profile type: XL 80, XL 100, XL 120 and XL 200

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

* By using of all screw holes

Remark: Limit torque applies when all screw holes are used. For $M_y = 0$, one screw per profile side at X.

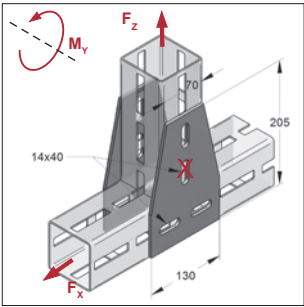
Only the CENTUM® T-bolt, with steel disk can be installed in the round hole.

Technical data:

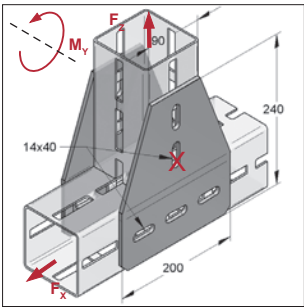
Material: steel
Material type: S235JR
Surface: hot-dip galvanized

Identification	Profile type	Load		Limited torque	Weight	Packing	Part-No.
		F_x [kN]	F_z [kN]	M_y [kNm]	[kg/pc.]	[pc.]	
CENTUM® Cross plate XL 80 (use in pairs)	XL 80	64	64	2,34	1,47	1	1640083020
CENTUM® Cross plate (use in pairs)	from XL 100	64	64	2,34	2,89	1	1640003020

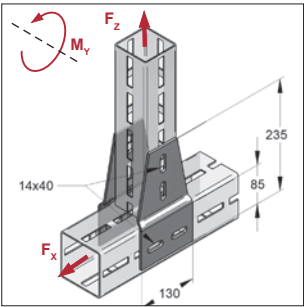
CENTUM® T-plate



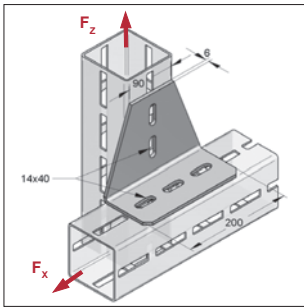
CENTUM® T-plate
XL 80



CENTUM® T-plate
ab XL 100



CENTUM® T-plate cranked sym.



CENTUM® T-plate, angled

Specification:

For profile type: XL 80, XL 100, XL 120 and XL 200
Required accessory: CENTUM® T-lock M12/40 or
CENTUM® T-lock plus M12 x 40

Technical data:

Material: steel
Material type: S235JR
Surface: hot-dip galvanized

Remark: Limit torque applies when all screw holes are used. For $M_y = 0$, one screw per profile side at X.

²⁾ Use in pairs

³⁾ Cross profile XL 100; any connecting profile

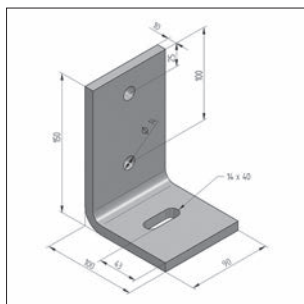


Identification	Profile type	Load		Limited torque	Weight	Packing	Part-No.
		F_x [kN]	F_z [kN]	M_y [kNm]	[kg/pc.]	[pc.]	
CENTUM® T-plate XL 80 ¹⁾	XL 80	64	64	2,34	0,92	1	1640081030
CENTUM® T-plate ¹⁾	from XL 100	64	64	2,34	1,97	1	1640001030
CENTUM® T-plate cranked sym. ¹⁾	to connect XL 80 with XL 100	64	64	2,34	1,08	1	1640003030
	to connect XL 100 with XL 120	64	64	2,34			
CENTUM® T-plate, angled	XL 100, XL 120, XL 200 ²⁾	-	-	-	1,97	1	1640001040

CENTUM® T-plate, angled - load

Profile	Load F_x [kN]	Load F_y [kN]
XL 100	39,0	9,0
XL 120	39,0	12,0
XL 120s	39,0	18,0
XL 200	39,0	18,0

■ 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 elongated holes of the components in the direction of the elongated holes of the CENTUM® profile.

Technical data:

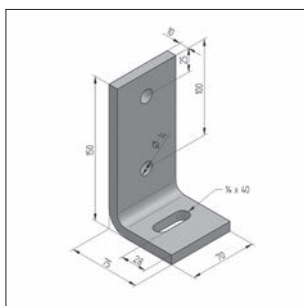
Material: steel
Material type: S235
Surface: hot-dip galvanized

Identification

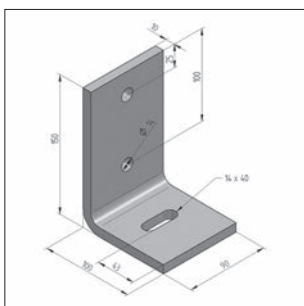
Weight	Packing	Part-No.
[kg/pc.]	[pc.]	
1,29	1	1640101005

CENTUM® wall angle XL 100 horizontal

■ CENTUM® wall angle 3-hole across



CENTUM® wall angle 3-hole XL 80
across



CENTUM® wall angle 3-hole
XL 100 across



Specification:

For profile type: XL 80, XL 100 and XL 120 upright
Area of application: With round hole for wall attachment.
Required accessory: CENTUM® T-lock plus M12 x 40, anchor

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

Profile type

Weight	Packing	Part-No.
[kg/pc.]	[pc.]	
1,14	1	1640101006
1,66	1	1640101007

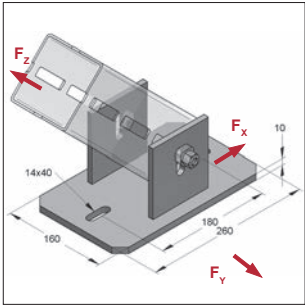
CENTUM® wall angle 3-hole XL 80 across

XL 80

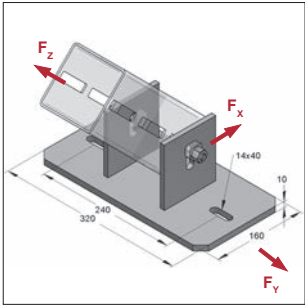
CENTUM® wall angle 3-hole XL100 across

XL 100, XL 120 upright

CENTUM® Joint holder



CENTUM® Joint holder
XL 100 vertical

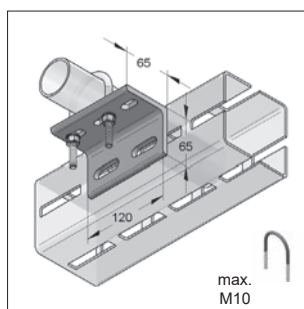


CENTUM® Joint holder
XL 100 horizontal

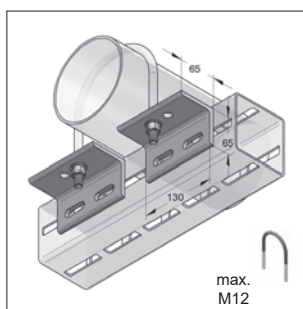
Specification:			Technical data:	
For profile type:	XL 100, XL 120 or XL 200		Material:	steel
Required accessory:	CENTUM® T-lock M12 x 40		Material type:	S235JR
Tightening torque:	60 Nm		Surface:	hot-dip galvanized

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	32	11	180	260 x 160 x 10	4,89	1	1641004010
CENTUM® Joint holder XL 100 horizontal	11	32	11	240	320 x 160 x 10	5,72	1	1641004020

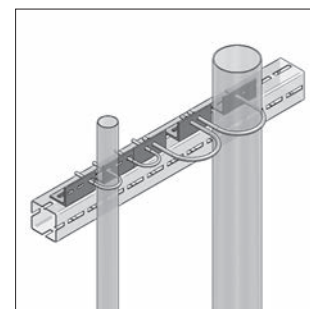
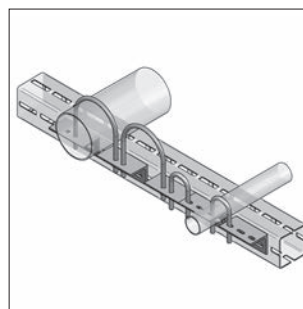
■ CENTUM® Pipe holder



CENTUM® Ø 21,3 - 76,1



CENTUM® Ø 88,9 - 219,1



Specification:

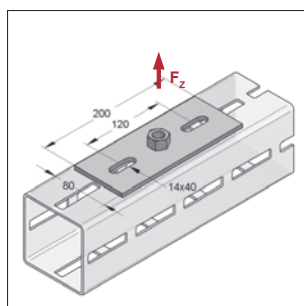
For pipe diameter: Ø 21,3 - 219,1 mm
 Mounting instruction: Pipe must overlie
 Advantage: Installation of different pipe diameter
 Required accessory: CENTUM® T-lock plus M12 x 40 and U-bolt

Technical data:

Material: steel
 Material type: S235JRG2
 Surface: hot-dip galvanized

Identification	For pipe-Ø	Length [mm]	Height [mm]	Thickness [mm]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
CENTUM® Pipe holder	21,3 - 76,1	120	65	7	0,81	1	1640008200
CENTUM® Pipe holder	88,9 - 219,1	130	65	6	1,32	2	1640008211

■ CENTUM® Base plate



CENTUM® Base plate M12

Specification:

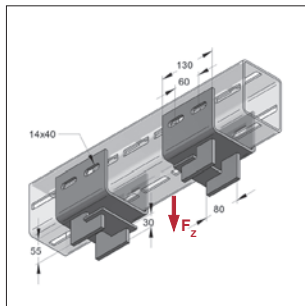
For profile type: XL80, XL100, XL120 and XL 200
 Required accessory: CENTUM® T-lock plus M12 x 40 or
 T-bolt with steel disk, M12/40

Technical data:

Material: steel
 Material type: S235JRG2
 Surface: zinc-nickel

Identification	Length [mm]	Height [mm]	Load F_z [kN]	Thickness [mm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
CENTUM® Base plate M12	200	80	5,5	6	0,760	1	1640018106
CENTUM® Base plate M16	200	80	5,5	6	0,790	1	1640018107
CENTUM® Base plate 1/2"	200	80	5,5	6	0,780	1	1640018108
CENTUM® Base plate 1"	200	80	5,5	6	0,830	1	1640018110

CENTUM® Sliding base, hanging



CENTUM® Sliding base, hanging

Specification:

For profile type: XL 100, XL 120 or XL 200
 Required accessory: CENTUM® T-lock plus M12 x 40

Remark: Shipment in pairs

sliding element: Base plates above 150 mm
 width Sliding sledge and
 Sliding support T
 above 100 mm width

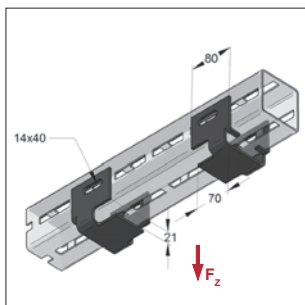
Technical data:

Material: steel
 Material type: S235JR
 Surface: hot-dip galvanized
 max. sliding plate thickness: ≤ 16 mm
 Material sliding strip: PA 6
 static friction factor: 0,2
 slide friction factor: 0,15
 Temperature resistance: - 200 °C up to + 80 °C

* Loads refer to pair

Identification	Profile type	Alignment	Load* F_z [kN]	Weight [kg/set]	Packing [set]	Part-No.
CENTUM® Sliding base	XL 100 / XL 200	hanging	15,0	4,78	1	1651002001
CENTUM® Sliding base	XL 120	hanging, profile upright	15,0	5,05	1	1651202011

CENTUM® Sliding base, hanging light



CENTUM® Sliding base, hanging light

Specification:

For profile type: XL 80, XL 100
 Required accessory: CENTUM® T-lock plus M12 x 40

Remark: Shipment in pairs

sliding element: - with glued Sliding stripes
 - Base plates, width Sliding
 sledge and Sliding support T
 above 100 mm width

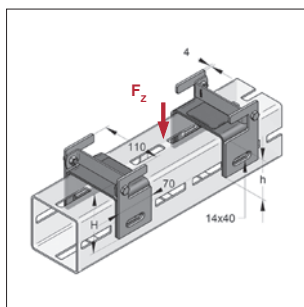
Technical data:

Material: steel
 Material type: S235JR
 Surface: hot-dip galvanized
 max. sliding plate thickness: ≤ 16 mm
 Material sliding strip: PA 6
 static friction factor: 0,2
 slide friction factor: 0,15
 Temperature resistance: - 200 °C up to + 80 °C

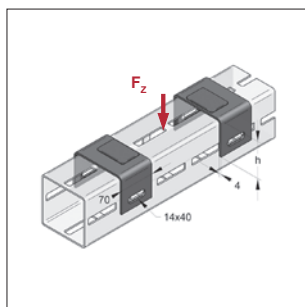
* Loads refer to pair

Identification	Profile type	Alignment	Load* F_z [kN]	Weight [kg/set]	Packing [set]	Part-No.
CENTUM® Sliding base, light	XL 80	hanging	5,0	1,13	1	1650804000
CENTUM® Sliding base, light	XL 100	hanging	5,0	1,36	1	1651004000

CENTUM® Sliding base, standing



CENTUM® Sliding base, standing
with lift lock



CENTUM® Sliding base, standing
without lift lock

Specification:

For profile type: XL 80, XL 100, XL 120 and XL 200
Required accessory: CENTUM® T-lock plus M12 x 40 or
T-bolt with steel disk, M12/40

Application area: Sliding support T and sliding sledge from 200 mm

Remark: Shipment in pairs

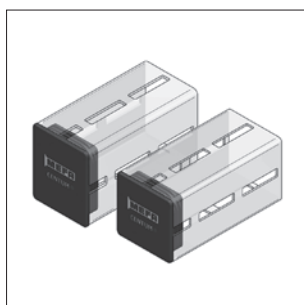
Technical data:

Material: steel
Material type: S235JR
Surface: hot-dip galvanized
Max. sliding plate thickness: ≤ 16 mm
Material sliding strip: PA 6
Static friction factor: 0,2
Slide friction factor: 0,15
Temperature resistance: - 200 °C up to + 80 °C

* Loads refer to pair

Identification	Profile type	Alignment	Load * F_z [kN]	H [mm]	h [mm]	Weight [kg/set]	Packing [set]	Part-No.
Sliding base with lift lock	XL 80	standing	32	100	64	1,81	1	1650801020
Sliding base with lift lock	XL 100 / XL 200	standing	40	110	74	2,13	1	1651001020
Sliding base without lift lock	XL 100 / XL 200	standing	40	-	74	1,07	1	1651001010
Sliding base with lift lock	XL 120	standing, profile upright	40	120	84	2,23	1	1651201050
Sliding base without lift lock	XL 120	standing, profile upright	40	-	84	1,28	1	1651201030

CENTUM® Protecting cap



CENTUM® Protecting cap

Specification:

For profile type: XL 80, XL 100 or XL 120

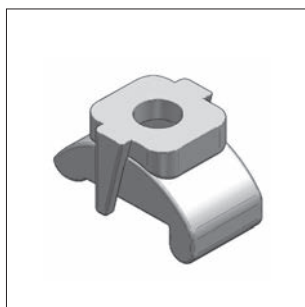
Technical data:

Material: plastic
Material type: PE
Color: black

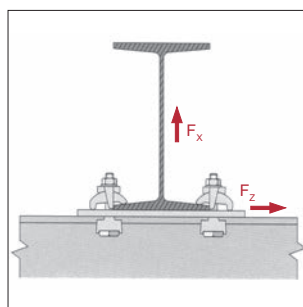
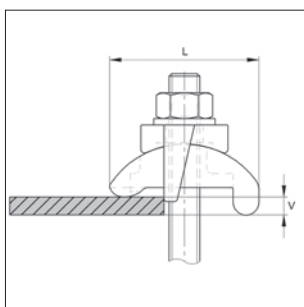
14

Identification	Weight [kg/pc.]	Packing [set]	Part-No.
CENTUM® Protecting cap XL 80	0,059	20	1670081
CENTUM® Protecting cap XL 100	0,079	20	1670101
CENTUM® Protecting cap XL 120	0,092	20	1670121

CENTUM® Clamping claw - type LR



Clamping claw LR



Specification:

Application: - girder with parallel and up to 15° inclined flanges.
- Horizontal connection of girder fixation at girder.

Delivery time: On request

Technical data:

Material: cast iron
Surface: hot-dip galvanized
Safety factor: 5:1

Required accessory:

1 x hexagon bolt h.-d. galv. FK 8.8 / threaded rod
1 x washer DIN 125
1 x hexagon nut h.-d. galv.

¹⁾ Checked for dynamic loads

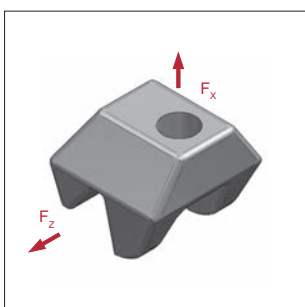
³⁾ In conjunction with property class 8.8

⁴⁾ For shear force value is valid for two screws couplings

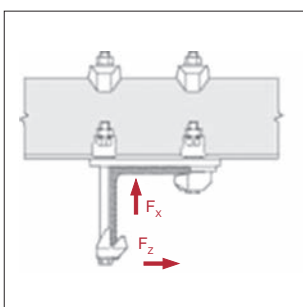
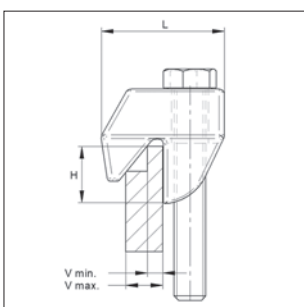
²⁾ Larger flange thickness can be clamped with washer components (P1 and P2 on request)

Model	Length L [mm]	Dimensions V [mm]	Width [mm]	Needed screw	Property class	Tightening torque [Nm]	Load ³⁾		Weight	Packing	Part-No.
							F_x [kN]	$F_z^{4)}$ [kN]	[kg/pc.]	[pc.]	
LR M12	56,0	3-12	39,0	M12	8.8	69	4,5	0,9	0,180	1	1660003012/fvz
LR M16¹⁾	67,0	3-16	46,0	M16	8.8	147	8,5	1,7	0,324	1	1660003016/fvz

CENTUM® Clamping claw - type CF



Clamping claw CF



Specification:

Application: - flange-edges of girder, U-profiles, angle-profiles
- absorption of high shearing forces by clamping at the vertical girder

Delivery time: On request

Technical data:

Material: cast iron
Surface: hot-dip galvanized
Safety factor: 2,0

Required accessory:

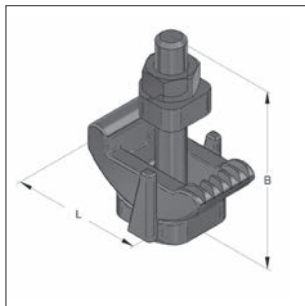
1 x hexagon bolt h.-d. galv. FK 8.8 / threaded rod
1 x washer DIN 125 galv.
1 x hexagon nut h.-d. galv.

* In conjunction with property class 8.8

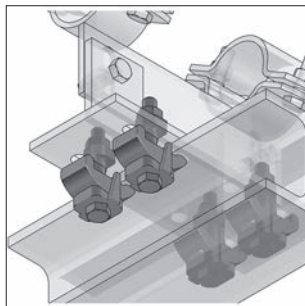
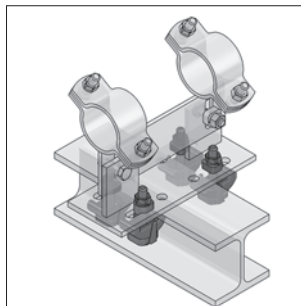
** For shear force value is valid for two screws couplings

Model	Length L [mm]	clamping size V [mm]	Needed screw	Property class	Anzugs- moment [Nm]	Load ³⁾		Weight	Packing	Part-No.
						F_x [kN]	$F_z^{4)}$ [kN]	[kg/pc.]	[pc.]	
CF M12	46	6-13	M12	8.8	90	8,5	3,9	0,222	1	1660002012
CF M16	62	8-16	M16	8.8	240	16,0	10,0	0,428	1	1660002016

Fixpoint set LR



Fixpoint set LR

Fixpoint set LR
(assembled)Fixpoint set LR
(assembled)

Specification:

Application: For connection to steel beams as a fixed point set for sliding support T and sliding supports on girder.

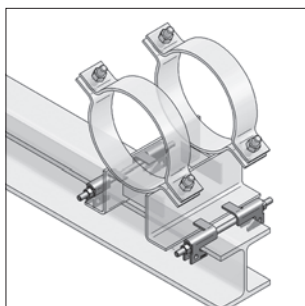
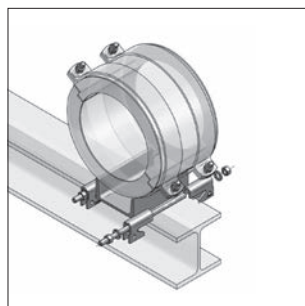
Scope of supply: 4 x Clamping claw LR, 4 x Screw M 12, 4 x Hex nut M 12, 4 x Locking screw M 12

Technical data:

Material: cast iron
Surface: hot-dip galvanized

Identification	Length [mm]	Clamp thickness [mm]	Width B [mm]	Strength class	Weight [kg/pc.]	Packing [pc.]	Part-No.
Fixpoint set LR	56	3 - 12	87,5	8,8	1,26	1	1660007112

Guiding Clamp-Set

Guiding Clamp-Set Typ A
(assembled)Guiding Clamp-Set Typ B
(assembled)

Assembly instructions see chapter 15

Specification:

Application: For lateral guidance of sliding sledges and sliding supports on girder.

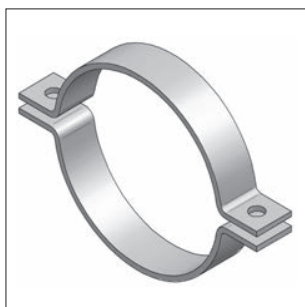
Technical data:

Material: steel
Material type: S235JR

Surface:
- guiding clamps: hot-dip galvanized
- screwing: zinc-nickel

Type A with lift lock for guide bearing
Type B without lift lock for floating bearing

Pipe clamp Form A, DIN 3567



Pipe clamp Form A, DIN 3567

Specification:

Closure: Hexagon nut/ closure-screw
Model: 2-parts
OD: 25 up to 521 mm
Connection: Without connection
Delivery time: On request

Technical data:

Material: steel
Material type: S235JR
Surface: raw, galvanized, hot-dip galvanized