

**Metal Framing &
Pipe Supports**
Complete solutions
for the installation
and support of
pipng systems

Contents






INTRODUCTION

General Information Usage Instructions	4
Abbreviations used in product tables	5
Approvals Reference List	5
Technical Information Channels & Fittings	6
Technical Information Channels	7
Support Overview & Load Data	8-9
Technical Information Channel Nuts	10
Technical Information UNISTRUT™ Fittings	11
Pipeclips Clamping Ranges	12-13 14-15
Pipe Weights & Support Distance	16-17
Loading Data on Threaded Rod	18
Loading Data on Threaded Tube	18
Pipe Expansion Table	18
Technical Information Fixpoint Herkules	19-20
Installation Instructions Fixpoint Herkules	21
RAL - Quality Hallmark	22
Fire Rating Approved Products	23-26
Standard Sprinkler Supports	27
Cable Management Solutions Catalogue	28
Fire Protection Catalogue	28
SprinkCAD Catalogue	28
Mechanical Catalogue	29
UNISTRUT™ Design Software	29





ii

METAL FRAMING SYSTEM

1	Medium & Heavy Duty Framing System		33
2	Cantilever Arms & Angle Brackets		113
3	Light Duty Framing System		126





iii

PIPE SUPPORT

4	Pipe Clips		138
5	Fix Points & Slides		182
6	Ventilation & Airconditioning Supports		195
7	Sound Insulation & Nameplate System		202

iv

FIXINGS

8	Beam, Roof & Purlin Fixings		208
9	Anchors & Plugs		216
10	General Fixings		236
11	Couplings & Accessories		260

General Information Usage Instructions

6

7

1

2

3

4

5

8

9

3.14
Pipe Clip 2 Screw

2 Screw pipe clip with sound insulation
 Material : Steel D011 - EN 10111
 EPDM/SBR black; SHORE A = 45°±5°
 Temperature durability: -50°C up to +110°C
 Sound insulation value on average: 22 dB(A)
 Finish : Electro zinc plated - EN ISO 12229

Standard R

Art No	D	D ₁	D ₂	L	W	H	H1	T	S	T2	Weight	Pcs					
Part	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	g						
1250168	14.0	17.0		88	38	20	34	20	1.0	M5	0.600	82.18	100	3.7	100		
1250169	16.0	19.0		88	38	20	36	22	1.0	M5	0.6	83.94	100	4.0	100		
1250223	1/2	21.0	24.0		88	38	20	40	23	1.0	M5	0.600	84.23	100	4.4	100	
1250299	3/4	27.0	30.0		88	38	20	46	26	1.0	M5	0.600	85.98	100	4.9	100	
1250353	1	33.0	36.0		88	38	20	52	30	1.0	M5	0.600	86.26	100	5.0	100	
1250408	1.1/4	39.0	41.0		88	38	20	56	31	1.0	M5	0.600	84.26	100	5.8	100	
1250429	1.1/4	42.0	45.0		88	38	20	60	34	1.0	M5	0.600	84.26	100	6.3	50	
1250484	1.1/2	48.0	51.0		88	38	20	66	37	1.0	M5	0.600	86.40	100	6.7	50	
1250485	1.1/2	54.0	57.0		88	38	20	73	41	1.0	M5	1.400	105.84	100	9	50	
1250666	2	58.0	62.0		88	101	20	79	43	1.5	M5	1.400	108.13	100	10.2	50	
1250708	2	67.0	72.0		88	118	25	84	53	1.5	M5	1.900	141.60	100	14.7	50	
1250768	2.1/2	73.0	78.0		88	123	25	100	56	1.5	M5	1.900	140.88	100	14.9	50	
1250888	3	84.0	89.0		88	134	25	108	61	1.5	M5	2.300	186.82	100	19.8	50	
1257148	4	106.0	114.0		88	162	25	136	81	1.5	M5	2.300	188.01	100	23.8	50	
1257015	14.0	17.0		M5 - MF10	88	38	20	34	20	1.0	M5	0.600	80.18	100	3.7	100	
1257016	16.0	19.0		M5 - MF10	88	38	20	36	22	1.0	M5	0.600	100.02	100	4	100	
1257022	1/2	21.0	24.0		M5 - MF10	88	38	20	40	23	1.0	M5	0.600	101.21	100	4.4	100
1257028	3/4	27.0	30.0		M5 - MF10	88	38	20	46	26	1.0	M5	0.600	103.82	100	4.9	100
1257035	1	33.0	36.0		M5 - MF10	88	38	20	52	30	1.0	M5	0.600	107.24	100	6.0	100
1257042	1.1/4	39.0	41.0		M5 - MF10	88	38	20	56	31	1.0	M5	0.600	111.24	100	5.9	100
1257042	1.1/4	42.0	45.0		M5 - MF10	88	38	20	60	34	1.0	M5	0.600	111.24	100	6.3	50
1257042	1.1/2	48.0	51.0		M5 - MF10	88	38	20	66	37	1.0	M5	0.600	113.40	100	6.7	50
1257048	1.1/2	54.0	57.0		M5 - MF10	88	38	20	73	41	1.5	M5	1.400	122.88	100	9	50
1257060	2	58.0	62.0		M5 - MF10	101	20	79	43	1.5	M5	1.400	125.13	100	10.2	50	
1257070	2	67.0	72.0		M5 - MF10	118	25	84	53	1.5	M5	1.900	151.63	100	14.7	50	
1257076	2.1/2	73.0	78.0		M5 - MF10	123	25	100	56	1.5	M5	1.900	152.88	100	14.9	50	
1257088	3	84.0	89.0		M5 - MF10	134	25	108	61	1.5	M5	2.300	176.98	100	19.8	50	
1257114	4	106.0	114.0		M5 - MF10	162	25	136	81	1.5	M5	2.300	186.03	100	23.8	50	

a vital part of your world

1 Product description

2 Material description

3 Standard finish description

4 Product picture

5 Table with product numbers & technical data

6 Page number, section 1 - page 1

7 Technical drawing of product with main dimensions

8 Product approvals

9 Catalogue edition

The products and Specifications published herein are for general evaluation and reference purposes only and are subject to change by Tyco Mechanical Products without notice. For the most up-to-date information, visit www.kwikstrut.com. The information provided in this catalogue should not be relied on as a substitute for professional advice concerning specific applications. ALTHOUGH TYCO MECHANICAL PRODUCTS ENDEAVORS TO ENSURE ACCURACY, ALL INFORMATION HEREIN IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED. Without limiting the foregoing, Tyco Mechanical Products does not warrant the accuracy, adequacy, or completeness of any such information. All users of the information provided herein assume the risk of use or reliance on such information and Tyco Mechanical Products shall not liable for any damages for such use including, but not limited to, indirect, incidental, or consequential damages. Terms and Conditions of sale can be found on www.kwikstrut.com.

Abbreviations used in product tables

D	(mm)	Diameter
DN		Diameter nominal
OD	(mm)	Outside diameter
G		Thread dimension
L	(mm)	Length
ΔL	(mm)	Slide movement
W	(mm)	Width
H	(mm)	Height
T	(mm)	Thickness
LxW		Slot dimension (length x width)
R		Radius
S		Screw dimension
F3	(kN)	Maximum allowable tensile load
F4	(kN)	Maximum allowable slip load
δ _{max}	(mm)	Maximum deflection
	f=1/200L	Deflection limit at 1/200 of the span
	f=1/360L	Deflection limit at 1/360 of the span
T	(kN)	Tightening Torque
λ	W/(m·K)	Thermal conductivity
μ		Water Vapour Permeability
kg/m		Weight per meter
		Weight per 100 pieces
PU		Price Unit
h/PU		List Price per Price Unit
		Box quantity
		Thickness
Wy	(cm ³)	Section modulus Axis y-y
iy	(cm)	Radius of gyration
Iy	(cm ⁴)	Moment of inertia Axis y-y
e1	(mm)	Centre of gravity

Approvals Reference List



Factory Mutual Research approval



VdS loss prevention approval



Underwriters Laboratories approval



French product approval



German product approval



European Technical Approval



Fire rating approval



German RAL approval



Loss Prevention Certification Board

FM, VdS, UL, LPCB, IBMB Institute of Building Materials, Concrete Construction and Fire Protection; Braunschweig Technical University, Association Française de Normalisation (AFNOR), Deutsche bauaufsichtliche Benennung von Baustoffen und Bauteilen and RAL - the German Institute for Quality Assurance and Certification, are trademarks of their respective owners.

Technical Information Channels & Fittings

Introduction

UNISTRUT™ channels and fittings offer total flexibility in design and construction of assemblies for framing applications.

UNISTRUT™ products are available in a range of materials and finishes. These finishes offer differing degrees of corrosion protection for use in a variety of environments. Where required, factory decorative finishes, such as powder coating, are available to order.

Materials

Channels are cold rolled from 1.5mm, 2.0mm and 2.5mm steel strip and are available in Plain Oiled Mild Steel, Pre-Galvanised Mild Steel, Hot-Dip Galvanised Mild Steel, Stainless Steel A4 1.4404 and Stainless Steel A2 1.4301 Mild Steel channels are rolled using material formed from BS EN 10149-3 guaranteed yield 280/Nmm² and minimum ultimate tensile strength 370/Nmm².

UNISTRUT™ fittings are pressed from hot rolled, pickled and oiled plate, or strip steel mainly from grade HR1P of grade Z275 mild steel.

UNISTRUT™ nuts, with the exception of type PNP16ZP are made from SAE 1010 cold heading quality steel bar. The M12 and M16 version are case hardened after manufacturing.

Finishes

Hot-Dip Galvanised

Channels are Hot-Dip Galvanised in accordance with EN ISO1461. The minimum average Zinc Coating is as follows:
Cold rolled from 1.5mm, 2.0mm and 2.5mm steel-325g/m².
The mean Coating thickness is 45µ.
Fittings spun galvanised – (Weight) 335g/m²

Pre-Galvanised

Pre-Galvanising is to BS EN 10147 1992 (Coating Z275)
The mean coating thickness is approximately 20µ.

Plated

Channel nuts and bolts are zinc electroplated according to EN ISO 12329.

Range

Channels are available in plain, continuous slotted and in multiple channel combinations. Channels with a height of 21mm are available with slots 25x11mm.

Channels with a height of 41mm or more are available with slots 28x14mm all slot patterns have a pitch of 50mm.

Combination channels manufactured from Pre-Galvanised steel are spot welded, whilst Hot-Dip Galvanised channels are continuous seam welded.

Standard channel lengths are 2m, 3m or 6m.

Cut channel lengths can be supplied subject to a cutting charge.

Weights

The weights published in this catalogue are generally based on Pre-Galvanised channel. Weights may vary slightly with other finishes.

Ordering

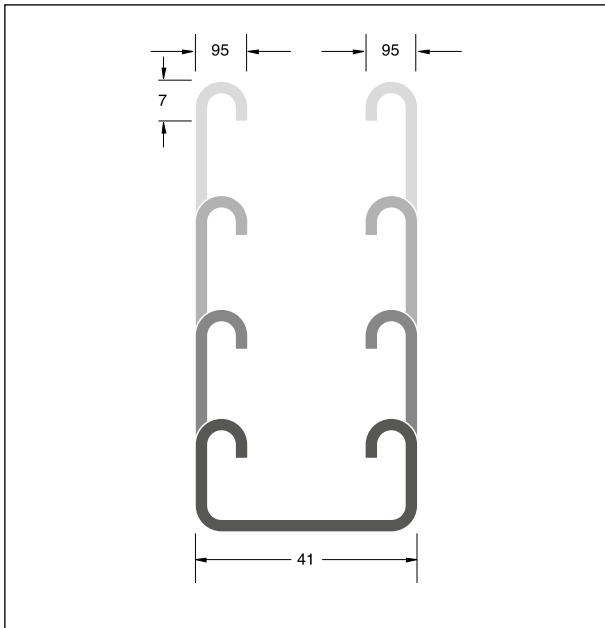
The product numbers for the channels can be determined according to the below mentioned matrix.

Product code matrix UNISTRUT™ channels

P10 P1000	1 single	1 serrated 2 mm	1 no perforations	1 plain oil	1 1 meter long
P11 T1100	2 double welded	2 serrated 4 mm	2 14x28 mm	2 pre galvanised	2 2 meter long
P20 P2000	3 double cont. s.w.		perforation	3 hot dip galvanised	3 3 meter long
P31 T3100	4 70 mm flat plate		3 11x25 mm	4 stainless A4 1.4404	6 6 meter long
P33 P3300	5 60 mm flat plate		perforation	5 Zinc plated	
P40 P4000			4 14 mm post pierce	6 Delta-Tone	
P50 P5000			5 13x45 & 17 mm	7 Zinc painted	
P55 P5500			6 14 mm perforation	8 Brass	
P80 P8000				9 Stainless steel A2 1.4301	

Introduction

UNISTRUT™ channels are produced in a range of sizes from either 1.5, 2.0, 2.5 or 3.0mm gauge strip steel. The profile width and the inturned channel lip remains constant throughout the range, permitting the comprehensive selection of fittings and channel nuts to be used for all channels.



Standard UNISTRUT™ channel ensures a high load carting capacity whilst the thinner Uni range channel provides economical support for lighter loads, maintaining total flexibility in the design and construction of assemblies required for framing applications.

Performance

UNISTRUT™ channels meet the requirements of BS 6946: 1988 and RAL-42 655/2. Detailed information about the technical performance of UNISTRUT™ channel is provided in the catalogue. Data published is based on mild steel channel.

Our technical department will be pleased to advise on any additional information relating to the design and use of UNISTRUT™ products.

Beam loads

Allowable uniformly distributed loads are shown for various simple spans (ie. beam on two supports with adequate lateral restraint). For loads concentrated at the centre of the spans, multiply the load by 0.5 and the deflection by 0.8.

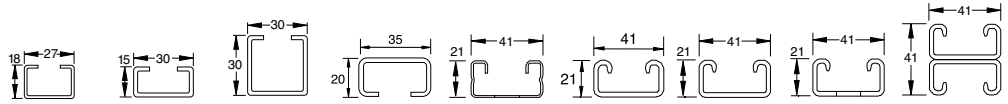
Stress 175N/mm² is recommended on long spans where deflection is not a factor (guaranteed yield 280N/mm²).

Deflection 1/200 span is recommended to avoid undue deflections.

Deflection 1/360 span is recommended where imperceptible deflection is required.



Support Overview & Load Data



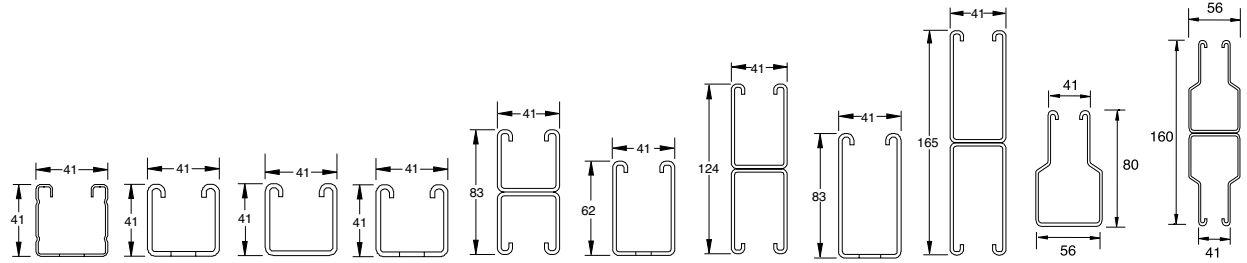
Channel:	UNI0	UNI1	UNI2	UNI3	T4000T	T3100T	P3300	P3300T10	P3301T10
Technical details:									
Wall thickness	t (mm)	1.25	2.0	2.0	2.5	1.5	2.0	2.5	2.5
Area of section	A (cm ²)	0.715	1.044	1.64	1.72	1.30	1.74	2.32	4.64
Weight	(Kg/m)	0.61	0.89	1.3	2.5	1.16	1.43	1.91	3.76
Standard length	(m)	2, 3 & 6	2, 3 & 6	2, 3 & 6	2 & 6	2, 3 & 6	3 & 6	3 & 6	3 & 6
Outer dimensions	HxW (mm)	18x27	15x30	30x30	20x35	21x41	21x41	21x41	41x41
Slot size	LxW (mm)	20x10.5	20x10.5	20x10.5	20x10.5	25x11	25x11	25x11	25x11
Slot pitch	(mm)	50 mm	50 mm	50 mm	50 mm	50 mm	50 mm	50 mm	50 mm

Finish:	= on application = standard									
Plain oil	1									
Pre galvanised	2									
Hot dip galvanised	3									
Stainless steel A4 1.4404										
Stainless steel A2 1.4301										

Elements of section:																				
Axis X-X																				
Centre of gravity 1	e1 (mm)	9.44	7.94	15.6	10.58	10.69	11.33	12.28	11.01	20.63										
Centre of gravity 2	e2 (mm)	8.56	7.06	14.4	9.42	9.96	9.67	8.35	9.62	20.63										
Moment of Inertia	Iy (cm ⁴)	0.30	0.29	1.75	0.87	0.75	0.96	1.19	0.98	5.64										
Section modulus	Wy (cm ³)	0.32	0.36	1.12	0.82	0.70	0.88	0.97	0.89	2.73										
Radius of gyration	Iy (cm)	0.65	0.53	1.03	0.71	0.76	0.74	0.71	0.70	1.10										
Allowable stress	Gmax (N/mm ²)	140	140	140	140	160	175	175	175	175										
Axis Y-Y																				
Moment of Inertia	Iz (cm ⁴)	0.94	1.5	2.68	3.15	3.64	4.63	5.34	5.29	10.68										
Section modulus	Wz (cm ³)	0.70	1.0	1.79	1.85	1.76	2.24	2.59	2.56	5.18										
Radius of gyration	Iz (cm)	1.15	1.2	1.27	1.36	1.67	1.63	1.51	1.63	1.51										

Point Load:																			
	Fmax (kN)	fmax (mm)	Fmax (kN)	fmax (mm)	Fmax (kN)	fmax (mm)	Fmax (kN)	fmax (mm)	Fmax (kN)	fmax (mm)	Fmax (kN)	fmax (mm)	Fmax (kN)	fmax (mm)	Fmax (kN)	fmax (mm)	Fmax (kN)	fmax (mm)	
	250	0.716	0.37	0.874	0.44	2.620	0.22	1.836	0.33	1.957	0.41	2.295	0.39	2.712	0.36	2.492	0.40	7.613	0.21
	500	0.357	1.48	0.434	1.75	1.308	0.89	0.916	1.31	0.976	1.66	1.145	1.55	1.354	1.45	1.246	1.61	3.806	0.86
	750	0.237	3.34	0.288	3.94	0.869	2.00	0.607	2.95	0.652	3.73	0.760	3.49	0.903	3.26	0.829	3.63	2.536	1.94
	1000	0.176	5.94	0.214	7.02	0.649	3.56	0.452	5.25	0.486	6.63	0.567	6.20	0.677	5.79	0.623	6.46	1.903	3.44
	1250	0.140	9.33	0.170	11.04	0.516	5.57	0.358	8.21	0.387	10.37	0.450	9.69	0.540	9.06	0.495	10.09	1.521	5.38
	1500	0.116	13.54	0.139	15.87	0.426	8.02	0.296	11.88	0.324	14.94	0.372	13.99	0.451	13.04	0.412	14.54	1.265	7.74
	1750	0.097	18.28	0.118	21.83	0.363	10.97	0.251	16.24	0.280	20.33	0.316	19.10	0.387	17.75	0.353	19.78	1.084	10.54
	2000	0.084	24.09	0.100	28.32	0.314	14.33	0.216	21.24	0.240	26.55	0.275	25.10	0.338	23.19	0.309	25.84	0.952	13.77
	2250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.844	17.42
	2500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.760	21.49
	2750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.692	26.03
	3000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.633	30.98

Support Overview & Load Data



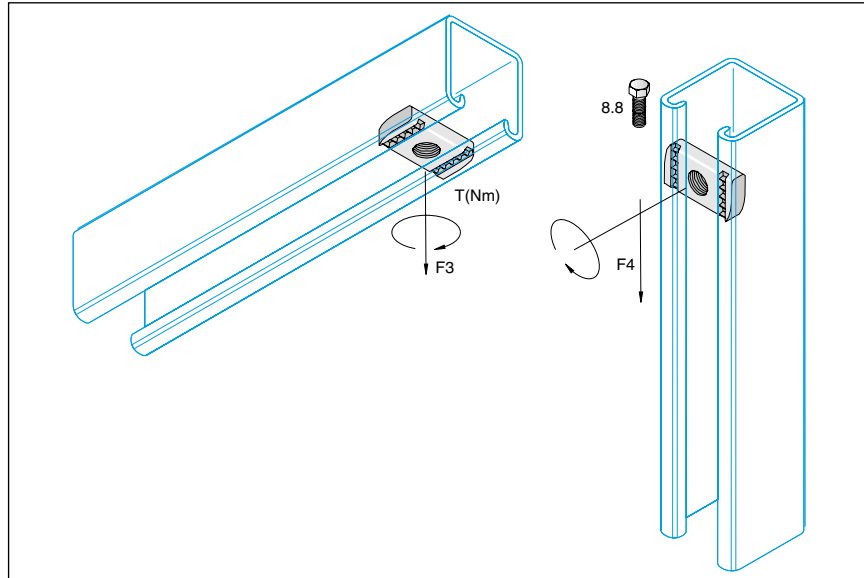
T2000T	T1100T	P1000	P1000T	P1001T	P5500T	P5501T	P5000T	P5001T	P8000T	P8001T
1.5	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.0	3.0
1.92	2.51	3.35	3.00	6.00	4.03	8.76	5.06	10.82	6.36	12.71
1.72	2.18	2.88	2.73	5.47	3.60	7.50	4.48	9.26	5.39	10.78
3 & 6	3 & 6	3 & 6	3 & 6	3 & 6	3 & 6	3 & 6	3 & 6	3 & 6	3 & 6	3 & 6
41x41	41x41	41x41	41x41	83x41	62x41	124x41	83x41	165x41	80x56	160x56
28x14	30x14	28x14	28x14	28x14	28x14	28x14	28x14	28x14	13x40	13x40
50 mm	50 mm	plain	50 mm	50 mm	50 mm	50 mm	50 mm	50 mm	60.7 mm	60.7 mm








20.82	20.64	23.26	21.30	41.30	31.60	61.98	41.90	82.60	45.44	80.00
20.48	20.36	18.04	20.00	41.30	30.38	61.98	40.70	82.60	34.56	80.00
4.24	5.33	7.21	6.10	36.21	17.67	109.76	37.76	243.17	51.8	257.3
2.04	2.58	3.10	2.87	8.77	5.59	17.70	9.01	29.44	11.4	32.2
1.48	1.42	1.46	1.42	2.45	2.09	3.53	2.72	4.74	2.85	4.50
160	175	175	175	175	167	167	132	132	160	160
6.10	9.17	9.23	9.17	18.34	13.07	26.26	16.95	34.00	27.77	55.54
2.95	4.44	4.47	4.44	8.88	6.33	12.72	8.21	16.48	9.92	19.84
1.78	1.74	1.66	1.74	1.74	1.79	1.72	1.82	1.77	2.09	2.09

Fmax (kN)	fmax (mm)	Fmax (kN)	fmax (mm)	Fmax (kN)	fmax (mm)	Fmax (kN)	fmax (mm)	Fmax (kN)	fmax (mm)	Fmax (kN)	fmax (mm)	Fmax (kN)	fmax (mm)	Fmax (kN)	fmax (mm)	Fmax (kN)	fmax (mm)	Fmax (kN)	fmax (mm)	Fmax (kN)	fmax (mm)
5.710	0.21	6.605	0.19	8.677	0.18	8.034	0.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.855	0.84	3.302	0.77	4.336	0.76	4.017	0.84	-	-	-	-	-	-	-	-	-	-	14.580	00.35	-	-
1.903	1.89	2.202	1.73	2.889	1.72	2.678	1.88	8.182	0.97	4.964	1.20	-	-	6.298	0.71	-	-	9.712	0.79	-	-
1.428	3.36	1.651	3.07	2.168	3.06	2.006	3.34	6.136	1.72	3.723	2.14	-	-	4.724	1.27	-	-	7.270	1.40	20.500	0.79
1.138	5.25	1.321	4.80	1.731	4.78	1.604	5.23	4.910	2.69	2.977	3.34	-	-	3.777	1.98	12.267	1.00	5.805	2.19	16.426	1.24
0.952	7.63	1.101	6.92	1.442	6.88	1.339	7.53	4.091	3.87	2.482	4.82	7.873	2.46	3.149	2.86	10.222	1.44	4.825	3.15	13.665	1.79
0.804	10.41	0.944	9.41	1.236	9.36	1.148	10.25	3.057	5.27	2.124	6.55	6.749	3.34	2.698	3.89	8.760	1.96	4.125	4.29	11.690	2.44
0.701	13.66	0.826	12.29	1.084	12.23	1.001	13.38	3.066	6.89	1.859	8.56	5.906	4.38	2.359	5.09	7.667	2.56	3.595	5.60	10.205	3.19
0.623	17.43	0.734	15.56	0.961	15.48	0.893	16.94	2.727	8.72	1.653	10.84	5.248	5.54	2.099	6.44	6.813	3.24	3.185	7.10	9.045	4.03
0.553	21.08	0.660	19.21	0.863	19.11	0.800	20.92	2.453	10.77	1.486	13.38	4.724	6.83	1.888	7.94	6.1.31	4.00	2.855	8.78	8.119	4.99
0.500	25.59	0.600	23.24	0.785	23.13	0.726	25.31	2.232	13.02	1.354	16.19	4.292	8.27	1.717	9.62	5.577	4.84	2.585	10.69	7.357	6.04
0.454	30.47	0.550	27.66	0.721	27.52	0.667	30.12	2.045	15.50	1.241	19.27	3.934	9.84	1.575	11.45	5.111	5.77	2.355	12.66	6.720	7.19

Technical Information

Channel Nuts



	Art. Nr. 5	T (Nm)	F3 kN	F4 kN
 41 P1000	PNP06ZP	12	4.70	0.49
	PNP08ZP	28	5.78	1.56
	PNP10ZP	55	6.86	3.40
	PNP12ZP	95	8.82	5.88
	PNP16ZP	125	10.30	7.35
	M16SN*	95	8.82	
 21 P3300 41	PNP06ZP	12	4.70	0.49
	PNP08ZP	28	5.78	1.56
	PNP10ZP	55	6.86	3.40
	PNP12AZ	60	6.86	2.64
	M16SN*	95	8.82	
 21 P4000 41	PNP06ZP	12	3.33	0.49
	PNP08ZP	28	3.53	1.56
	PNP10ZP	40	3.92	1.66
	PNP12AZP	40	4.41	1.96
	M16SN*	40	3.92	
 41 T1100	PNP06ZP	12	3.45	0.49
	PNP08ZP	28	4.65	1.56
	PNP10ZP	55	5.4	2.5
	PNP12ZP	55	6.6	4.55
 21 T3100 41	PNP06ZP	12	3.45	0.49
	PNP08ZP	28	4.65	1.56
	PNP10ZP	55	5.4	2.5
	PNP12AZP	55	5.65	4.55
	Art. Nr. 4	T (Nm.)	F3 kN	F4 kN
 41 P1000	PNP06SS	6.5	2.45	0.19
	PNP08SS	16	4.41	0.49
	PNP10SS	31.5	6.86	1.17
	PNP12ASS	55	6.86	1.66
	PNP16SS	125	10.30	3.92
 21 P3300 41	PNP06SS	6.5	2.45	0.19
	PNP08SS	16	4.41	0.49
	PNP10SS	31.5	6.86	1.17
	PNP12ASS	55	6.86	1.66

*M16SN Hot forged

Standard dimensions

The dimensions shown relate to all UNISTRUT™ fittings except where noted on the part drawing. (see Fig. B)

Fitting Thickness	: 6 mm unless stated
Hole Size	: 14 mm diameter
Hole Spacing	: 20 mm from end of fitting 48 mm centre to centre
Fitting Width	: 40 mm unless otherwise stated
All dimensions subject to commercial tolerances	

Fitting Application

All part drawings illustrate only one application of each fitting. In most cases many other applications are possible. The UNISTRUT™ members shown in the illustration are P1000, 41 mm square except where noted otherwise. All 14 mm diameter holes use 12 mm x 25 mm hex head screws quality 8.8 and 12 mm UNISTRUT™ nuts PNP12ZP depending on the UNISTRUT™ channel used. Nuts and bolts are not included with the fitting and must be ordered separately. Please visit www.unistrut.com to verify all UNISTRUT check standard dimensions

Design load data

Where applicable, design data is based on a minimum safety factor of 2.5.

Many load diagrams indicate different design loads. These loads vary with the thickness of the steel from which the UNISTRUT™ channel is formed.

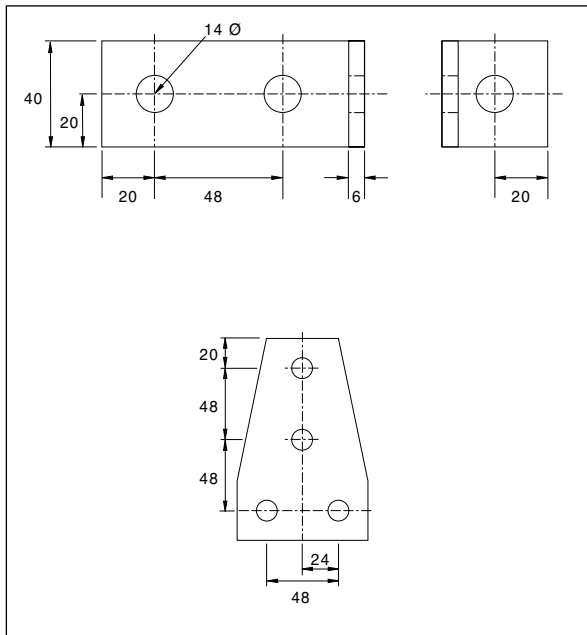
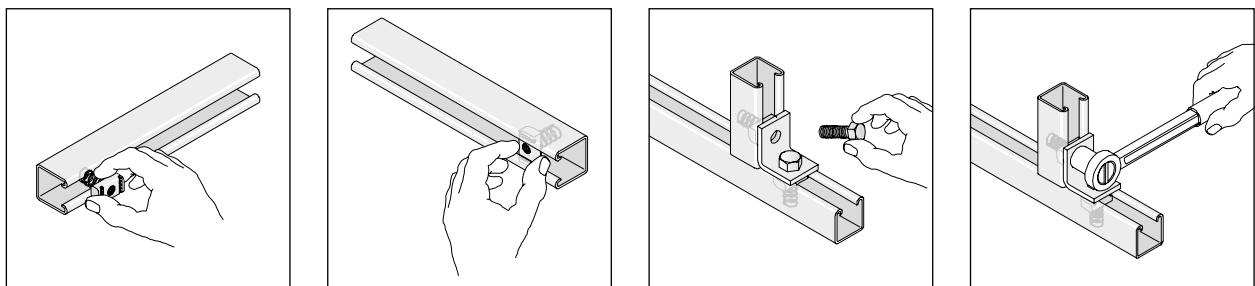


Fig. B



Pipeclips Clamping Ranges

PIPECLIPS CLAMPING RANGES

Pipe Diameter		Mini	Perfect-1S	Standard-N	Standard-R/Standard-R-SS	Standard-P	Perfect-N	Perfect-R	Solid-N	Solid-R	Solid-S	DIN 3567A	PUN	KS	GKS	Massiv-R-SS	Massiv-N-SS
mm	Zoll																
10		10												10			
12		12												12			
14	1/4"				14-17					14-18	14-18					14-20	14-20
15		15	15-19		14-17			15-20	15-19	14-18	14-18			15		14-20	14-20
16		16	15-19		14-17	16		15-20	15-19	14-18	14-18					14-20	14-20
18	3/8"	18	15-19	17-20	17-20		18-20	15-20	15-19	14-18	14-18		17.2/18	18	17.2/18	14-20	14-20
19			15-19	17-20	17-20		18-20	15-20	15-19	19-23	19-23					14-20	14-20
20				17-20	17-20	20	18-20	15-20	20-24	19-23	19-23					20-26	20-26
22	1/2"	22	21-22	21-24	21-24		21-25	21-25	20-24	19-23	19-23	21.3	21.3/22	22	21.3/22	20-26	20-26
23				21-24	21-24		21-25	21-25	20-24	19-23	19-23					20-26	20-26
25				25-28		25	21-25	21-25	25-30	24-28	24-28			25		25-31	25-31
28	3/4"	28	27-28	25-28	27-30		27-32	26-31	25-30	24-28	24-28	26.9	26.9/28	28	26.9/28	25-31	25-31
30					27-30		27-32	26-31	25-30	29-33	29-33			30		25-31	25-31
32				32-35		32	27-32	32-36	31-35	29-33	29-33					32-38	32-38
35	1"	35	34-35	32-35	33-36		34-38	32-36	31-35	33-37	33-37	33.7	33.7/35	35	33.7/35	32-38	32-38
38				38-41	38-41		34-38		36-41							32-38	32-38
40			40-41	40-43	38-41	40	39-43		40-45	40-45	40-45					40-46	40-46
42	1 1/4"	42	42-43	40-43	42-45		39-43	42-46	40-45	40-45	40-45	42.4	42.4/42	42	42.4	40-46	40-46
45					42-45		43-46	42-46	40-45	40-45	40-45			44.5		40-46	40-46
46							43-46	46-50								40-46	40-46
48	1 1/2"	48	48-49	48-51	48-51		48-53	46-50	48-53	47-52	47-52	48.3	48.3	48.3	48.3	48-54	48-54
50			49-50	48-51	48-51	50	48-53	50-54	48-53	47-52	47-52					48-54	48-54
52							48-53	50-54	48-53	47-52	47-52					48-54	48-54
53							48-53	50-54	48-53	53-58	53-58					53-55	53-55
54			54-55	54-57	54-57			50-54	54-59	53-58	53-58		54	54	54	53-55	53-55
55			54-55	54-57	54-57				54-59	53-58	53-58					53-55	53-55
57/58			57-58	54-57	54-57			56-60	54-59	53-58	53-58				57	56-62	56-62
60	2"		60-61	59-63	59-62		60-65	56-60	60-65	60-65	60-65	60.3	60.3		60.3	56-62	56-62
63				59-63		63	60-65	63-68	60-65	60-65	60-65						
64							60-65	63-68	60-65	60-65	60-65			64	64		
65							60-65	63-68	60-65	60-65	60-65						
70				67-72	67-72		68-73	68-73	67-72	67-72	67-72			70	70		
73				71-77	72-78		68-73	68-73		73-78	73-78					72-78	72-78
75				71-77	72-78	75/78	73-77	75-80		73-78	73-78					72-78	72-78
76	2 1/2"			71-77	72-78		73-77	75-80	76-81	73-78	73-78	76.1	76.1	76.1	76.1	72-78	72-78
78					72-78	75/78		75-80	76-81	73-78	73-78					72-78	72-78
80					80-85			80-85	76-81	79-85	79-85						72-78
84					80-85/84-89		84-90	84-89	82-85	79-85	79-85						
89	3"			85-90	84-89		84-90	88-92	88-94	88-93	88-93	88.9	88.9	88.9	88.9	86-91	86-91
90				85-90		90	84-90	88-92	88-94	88-93	88-93					86-91	89-91

Pipeclips Clamping Ranges

	AIR-N	AIR-R	blank EN 1057		Wicu Standard		Wicu Extra		Steel pipe EN 10255		Steel pipe EN 10220		Stainless steel pipe		SML-pipe DIN 19522		HT-pipe		PVC-pipe DIN 8062 - series 3		PP-pipe DIN 8077		PE-pipe DIN 8074		Ventilation duct DIN 24145		
			AD mm	DN	AD mm	DN	AD mm	DN Inches	AD mm	DN	AD mm	DN	AD mm	DN	AD mm	DN	AD mm	DN	AD mm	DN	AD mm	DN	AD mm	DN	AD mm	DN	AD mm
			10x1.0	6x1.0	10																						
			12x1.0	8x1.0	12																						
			15x1.0	10x1.0	14				8 / 1/4"	14																	
				12x1.0	16																						
			18x1.0	10x1.0	14				10 / 3/8"	17	10	17	10	17													
				15x1.0	19																						
			22x1.0	18x1.0	22				15 / 1/2"	21	15	21	15	21									20				
					12x1.0	26																		25			
			28x1.5	22x1.0	26	15x1.0	29		20 / 3/4"	27	20	27	20	27													
					28x1.5	33	18x1.0	32																32		32	
			35x1.5						25 / 1"	34	25	34	25	34													
					35x1.5	40												40	40					40		40	
			42x1.5			18x1.0	42		32 / 1 1/4"	42	32	42	32	42													
							22x1.0	45						45													
			42x1.5						40 / 1 1/2"	48	40	48	40	48	40	48											
																		50	50	40	50			50		50	
			54x2.0																								
												51	57			50	58										
			64x2.0						50 / 2"	60	50	60	50	60													63
													64														
		68-74	68-74									65	70														
		77-83																									
		77-83	77-83	76.1x2.0					65 / 2 1/2"	76	65	76	65	76													73
		84																									
		87-93	87-93	88.9x2.0					80 / 3"	89	80	89	80	89													82
		87-93																									

Pipeclips Clamping Ranges

PIPECLIPS CLAMPING RANGES

Pipe Diameter	Mini	Perfect-1S	Standard-N	Standard-R/Standard-R-SS	Standard-P	Perfect-N	Perfect-R	Solid-N	Solid-R	Solid-S	DIN 3567A	PUN	KS	GKS	Massiv-R-SS	Massiv-N-SS
101						97-103	97-102	95-102	100-106	100-106						
102						97-103	97-102	102-108	100-106	100-106			102			
108			107-114			106-111	106-111	102-108	108-116	108-116	108		108	108	108-116	108-116
110			107-114	109-114	110	109-114	106-111	110-116	108-116	108-116					108-116	108-116
114	4"		107-114	109-114		109-114	113-119	110-116	108-116	108-116	114.3	114.3	114.3	114.3	108-116	108-116
116							113-119	110-116	108-116	108-116					108-116	108-116
121								117-124	117-123	117-123						
125			123-127		125	125-130	122-127	124-129	124-129	124-129			125		122-130	122-130
133				133-141			131-136	133-140	131-137	131-137	133		133	133	132-140	132-140
135				133-141	135		131-136	133-140	131-137	131-137					132-140	132-140
140	5"		139-146	133-141		139-145	137-142	140-146	138-145	138-145	139.7	139.7	139.7	139.7	139-147	139-147
150								149-155	148-154	148-154						
154								149-155	148-154	148-154				154		
159				159-170			158-163	159-165	156-162	156-162	159			159	157-165	157-165
160			158-162	159-170	160	160-168	158-163	159-165	156-162	156-162			160		157-165	157-165
168	6"		167-175	159-170		160-168	164-168	167-173	165-171	165-171	168.3	168.3	168	168.3	165-170	165-170
168			167-175	159-170		160-168	164-168	167-173	165-171	165-171	168.3	168.3	168	168.3	165-170	165-170
180								176-182	177-183	177-183						
194								188-194	188-194	188-194	194					
200			198-202	198-202				199-205	196-203	196-203						
210				210-221				207-216	205-214	205-214					208-216	208-216
216				210-221				207-216							216-224	216-224
219	8"		218-226	210-221				219-226	219-225	219-225	219.1			219.1	216-224	216-224
225			218-226					219-226	219-225	219-225						
244								244-250	244-250	244-250						
250			248-252					244-250	244-250	244-250						
267								267-273	265-273	265-273	267				265-275	265-275
273	10"							267-273	265-273	265-273	273			273	265-275	265-275
280								278-284								
300								297-304	299-305	299-305						
315								305-316								
324	12"							316-324	316-324	316-324	323.9			324	322-333	322-333
326															322-333	322-333
355								348-356	348-356	348-356	355.6			356		
359								360-368	360-368	360-368						
368								360-368	360-368	360-368	368.3			368		
400								399-407	399-409	399-409						
406	16"							399-407	399-409	399-409	406.4			406		
419								411-419	411-419	411-419	419					
457											457			457		
500								500-508	500-508	500-508						
508	20"							500-508	500-508	500-508	508			508		
609														609		

Pipeclips Clamping Ranges

AIR-N	AIR-R	blank EN 1057	Wicu Standard	Wicu Extra	Steel pipe EN 10255	Steel pipe EN 10220	Stainless steel pipe	SML-pipe DIN 19522	HT-pipe	PVC-pipe DIN 8062 - series 3	PP-pipe DIN 8077	PE-pipe DIN 8074	Ventilation duct DIN 24145
105	97-103 97-103	108x2.5				100 108	90 102						100 103
	109-115 109-115				100 / 4" 114			100 110	100 110	100 110	110	110	112 115
130	122-128	133x3.0				110 121			125 125	125 125	125	125	125 128
145 155	137-143 147-153				125 / 5" 140	125 140	125 140	125 135				140	140 143 150 153
165	158-164 158-164	159x3.0				150 159	150 159	150 160	150 160	150 160	160	160	160 163
185	177-183				150 / 6" 165	150 165 150 168	150 168				180	180	180 183
205	197-203					175 194		200 210		200	200	200	200 203
229	218-224 218-224	219x3.0				200 219	200 216						224 227
255	247-253	267x3.0				225 244				250	250	250	250 253
285 307 322	277-283 298-304 313-319					260 273		250 274		280	280	315	280 283 300 304 315 319
362								300 326			355		355 359
407	398-404										400		400 404
457 507	445-455 495-505										500		450 454 500 504
608	596-606												600 605

Technical Information Pipe Weights

DN	Size	Ø Outside (mm)	thickness (mm)	weight (Kg/m)	plus water (Kg/m)	plus isol. (Kg/m)	span (m)
----	------	----------------	----------------	---------------	-------------------	-------------------	----------

Pipes according EN 10255

8	1/4"	13.5	2.35	0.65	0.80	1.0	2.00
10	3/8"	17.2	2.35	0.85	1.00	1.3	2.25
15	1/2"	21.3	2.65	1.22	1.60	1.8	2.75
20	3/4"	26.9	2.65	1.58	2.20	2.5	3.00
25	1"	33.7	3.25	2.44	3.40	3.9	3.50
32	1 1/4"	42.4	3.25	3.14	4.70	5.5	3.75
40	1 1/2"	48.3	3.25	3.61	5.60	6.5	4.25
50	2"	60.3	3.65	5.10	8.20	10.0	4.75
65	2 1/2"	76.1	3.65	6.51	11.40	14.0	5.50
80	3"	88.9	4.05	8.47	15.10	18.5	6.00
100	4"	114.3	4.50	12.10	22.90	28.3	6.00
125	5"	139.7	4.85	16.20	32.20	38.3	6.00

Steel pipes according to EN 10220

10	3/8"	17.2	1.80	0.69	0.90	1.1	2.25
15	1/2"	21.3	2.00	0.96	1.30	1.5	2.75
20	3/4"	26.9	2.30	1.41	2.0	2.2	3.00
25	1"	33.7	2.60	2.01	2.9	3.4	3.50
32	1 1/4"	42.4	2.60	2.70	4.2	5.0	3.75
40	1 1/2"	48.3	2.60	2.95	4.8	5.7	4.25
46		51.0	2.60	3.12	5.2	6.4	4.40
50		57.0	2.90	3.90	6.7	8.5	4.60
50	2"	60.3	2.90	4.14	7.0	8.8	4.75
57		63.5	2.90	4.36	7.5	9.5	4.75
65	2 1/2"	76.1	2.90	5.28	9.8	12.4	5.50
76		82.5	3.20	6.31	11.7	14.9	5.75
80	3"	88.9	3.20	6.81	13.0	16.4	6.00
94		101.6	3.60	8.76	16.9	21.9	6.00
100		108.0	3.60	9.33	18.5	23.7	6.00
100	4"	114.3	3.60	9.90	20.2	25.6	6.00
		127.0	4.00	12.20	24.9	30.6	6.00
125		133.0	4.00	12.80	26.7	32.6	6.00
125	5"	139.7	4.00	13.50	28.8	34.9	6.00
		152.4	4.50	16.40	34.5	41.0	6.00
150		159.0	4.50	17.10	37.0	43.5	6.00
150	6"	168.3	4.50	18.10	40.4	47.1	6.00
		177.8	5.00	21.30	46.1	53.1	6.00
		193.7	5.60	26.00	54.5	61.9	6.00
200	8"	219.1	6.30	33.10	68.7	76.7	6.00
		244.5	6.30	37.00	96.6	92.9	6.00
250	10"	273.0	6.30	41.60	100.1	109.5	6.00
300	12"	323.9	7.10	55.60	138.1	148.7	6.00
350		355.6	8.00	68.60	168.3	179.8	6.00
400	16"	406.4	8.80	85.90	215.6	228.3	6.00
500	20"	508.0	11.00	135.00	337.7	353.0	6.00

Copper pipes EN 1057 and EN 12449

8		10.0	1.00	0.25	0.3	0.5	1.00
10		12.0	1.00	0.31	0.4	0.6	1.25
12		15.0	1.00	0.39	0.6	0.7	1.25
15		18.0	1.00	0.47	0.7	0.9	1.50
20		22.0	1.00	0.59	1.0	1.2	2.00
25		28.0	1.50	1.11	1.7	2.2	2.25
32		35.0	1.50	1.42	2.4	2.9	2.75
40		42.0	1.50	1.70	3.0	3.9	3.00
50		54.0	2.00	2.91	5.2	6.5	3.50
50		64.0	2.00	3.47	6.7	8.7	4.00
65		76.1	2.00	4.14	8.7	11.3	4.25
80		88.9	2.00	4.90	11.1	14.5	4.75
100		108.0	2.50	7.37	16.6	21.8	5.00
125		133.0	3.00	10.90	24.8	30.7	5.00
150		159.0	4.00	17.3	37.2	43.0	5.00

Stainless Steel acc. EN 10312

10		17.2	1.00	0.41	0.9	1.1	1.25
15		21.3	2.00	0.97	1.3	1.5	1.50
20		26.9	2.00	1.25	1.8	2.1	2.00
25		33.7	2.00	1.58	2.5	3.0	2.25
32		42.4	2.00	2.02	3.4	4.3	2.75
40		48.3	2.00	2.31	4.1	5.0	3.00
50		60.3	2.00	2.92	5.8	7.6	4.00
65		76.1	2.00	3.70	8.3	10.8	4.25
80		88.9	2.00	4.35	10.6	14.0	4.75
100		114.3	2.60	7.27	17.5	22.9	5.00
125		139.7	2.60	8.92	24.3	30.3	5.00
150		168.3	3.20	13.20	35.5	42.2	5.00
200		219.1	3.20	17.30	55.0	63.0	5.00
250		273.0	3.20	21.60	80.1	89.5	5.00
300		323.9	3.20	25.70	108.1	118.8	5.00
400		406.4	3.20	32.30	162.0	174.7	5.00
500		508.0	3.20	40.40	243.0	258.4	5.00

DN	Size	Ø Outside (mm)	thickness (mm)	weight (Kg/m)	plus water (Kg/m)	plus isol. (Kg/m)	span (m)
----	------	----------------	----------------	---------------	-------------------	-------------------	----------

Mapress copper pipes DIN EN 1057

10		12.0	1.00	0.31	0.4	0.6	1.25
12		15.0	1.00	0.39	0.5	0.7	1.25
12		15.0	1.50	0.57	0.7	0.9	1.25
15		18.0	1.00	0.48	0.7	0.9	1.50
15		18.0	1.50	0.59	0.8	1.0	1.50
20		22.0	1.00	0.69	1.0	1.2	2.00
20		22.0	1.50	0.86	1.2	1.5	2.00
25		28.0	1.00	1.05	1.5	1.8	2.25
25		28.0	1.50	1.11	1.6	2.1	2.25
32		35.0	1.50	1.41	2.2	2.6	2.75
40		42.0	1.50	1.70	2.9	3.9	3.00
50		54.0	2.00	1.96	4.9	6.3	3.50

Welded Steel pipes acc. EN 10220

10		17.2	2.00	0.75	1.0	1.2	2.25
15		21.3	2.00	0.96	1.3	1.5	2.75
20		26.9	2.00	1.23	1.8	2.0	3.00
25		33.7	2.30	1.78	2.7	3.2	3.50
32		44.5	2.60	2.70	4.2	5.0	3.75
40		48.3	2.60	2.93	4.8	5.7	4.25
		51.0	2.60	3.10	5.2	6.4	4.40
50		57.0	2.90	3.87	6.7	8.5	4.60
		60.3	2.90	4.11	7.0	8.8	4.75
		63.5	2.90	4.33	7.5	9.5	4.75
65		76.1	2.90	5.24	9.8	12.4	5.50
		82.5	3.20	6.26	11.7	14.9	5.75
80		88.9	3.20	6.76	13.0	16.4	6.00
		101.6	3.60	8.70	16.9	21.9	6.00
		108.0	3.60	9.27	18.5	23.7	6.00
100		114.3	3.60	9.83	20.2	25.6	6.00
		127.0	4.00	12.10	24.9	30.6	6.00
		133.0	4.00	12.07	26.7	32.6	6.00
125		139.7	4.00	13.40	28.8	34.9	6.00
		152.4	4.50	16.40	34.6	41.0	6.00
		159.0	4.50	17.10	37.0	43.5	6.00
150		168.3	4.50	18.20	40.4	47.1	6.00
		177.8	5.00	21.30	46.1	53.1	6.00
		193.7	5.60	26.00	54.5	61.9	6.00
200		219.1	6.30	33.10	68.7	76.7	6.00
		244.5	6.30	37.00	96.6	92.9	6.00
250		273.0	6.30	41.40	100.1	109.5	6.00
300		323.9	7.10	55.50	138.0	148.7	6.00
350		355.6	8.00	63.60	168.3	179.8	6.00
400		406.4	8.80	86.30	215.6	228.3	6.00
500		508.0	11.00	135.00	337.7	353.0	6.00

Technical Information Pipe Weights

DN	Size	Ø Outside (mm)	thickness (mm)	weight (Kg/m)	plus water (Kg/m)	span (m)
----	------	----------------	----------------	---------------	-------------------	----------

Drain pipes according to DIN 19500

50		60.0	3.50	5.30	7.50	0.60
70		80.0	3.50	7.10	11.28	0.80
100		112.0	4.00	10.30	18.79	1.15
125		137.0	4.00	13.70	26.76	1.35
150		162.0	5.00	17.30	35.43	1.60
200		212.0	6.00	32.70	64.10	2.00

Ductile pipes (SML,ML) DIN EN 877 / DIN19522

DN	Size	Ø Outside (mm)	thickness (mm)	weight (Kg/m)	plus water (Kg/m)	span (m)
40		48.0	3.0	3.10	4.50	
50		58.0	3.5	4.30	6.40	
70		78.0	3.5	5.90	9.90	
80		83.0	3.5	6.30	10.50	
100		110.0	3.5	8.40	17.70	
125		135.0	4.0	11.80	24.50	
150		160.0	4.0	14.10	32.30	
200		210.0	5.0	23.10	54.60	
250		274.0	5.5	33.30	87.70	
300		326.0	6.0	43.20	120.80	
400		429.0	6.3	60.0	193.3	
500		532.0	7.0	82.6	290.1	
600		635.0	7.7	108.5	405.6	

+/- 1.5 meter
(Based upon manufacturers data)

Drain pipes, PE (Geberit) DIN 8074

30		32.0	3.00	0.26	0.8	0.50
40		40.0	3.00	0.33	1.2	0.50
50		50.0	3.00	0.42	1.9	0.80
56		56.0	3.00	0.47	2.4	0.80
70		75.0	3.00	0.65	4.4	0.80
90		90.0	3.50	0.91	6.3	0.90
100		110.0	4.30	1.35	9.4	1.10
125		125.0	4.90	1.75	12.2	1.30
150		160.0	6.20	2.84	20.0	1.60
200		200.0	6.20	3.58	31.3	2.00
200		200.0	7.70	4.42	31.3	2.00
250		250.0	7.80	5.63	48.8	2.00
300		315.0	9.80	8.92	77.4	2.00
300		315.0	12.20	11.02	77.4	2.00

Drain pipes, PVC, hard DIN 8062 / DIN 19532 (Reihe 3)

32		40.0	1.80	0.33	1.0	0.50
40		50.0	1.80	0.42	1.7	0.50
50		63.0	1.90	0.56	2.8	0.60
65		75.0	2.20	0.78	3.9	0.75
80		90.0	2.70	1.13	5.6	0.85
100		110.0	3.20	1.64	8.4	1.15
125		125.0	3.70	2.13	10.9	1.25
125		140.0	4.10	2.65	13.6	1.50

Drain pipes PP-SDR 17.6 (Simana) DIN 8077

		25.0	1.80	0.13	0.4	0.50
		32.0	1.80	0.17	0.6	0.70
		40.0	2.30	0.27	1.0	0.80
		50.0	2.90	0.42	2.0	1.00
		63.0	3.60	0.66	3.1	1.30
		75.0	4.30	0.94	4.4	1.40
		90.0	5.10	1.33	6.3	1.50
		110.0	6.30	1.99	9.4	1.60
		125.0	7.10	2.55	12.2	1.80
		140.0	8.00	3.20	15.3	1.90
		160.0	9.10	4.17	20.0	2.00
		180.0	10.20	5.25	25.3	2.10
		200.0	11.40	6.50	31.2	2.20
		225.0	12.80	8.19	39.4	2.30
		250.0	14.20	10.10	48.7	2.50
		280.0	15.90	12.60	61.0	2.60
		315.0	17.90	16.00	77.2	2.80
		355.0	20.10	20.30	98.1	3.00
		400.0	22.70	25.70	124.5	3.20
		500.0	28.40	40.20	194.5	3.80

DN	Size	Ø Outside (mm)	thickness (mm)	weight (Kg/m)	plus water (Kg/m)	span (m)
----	------	----------------	----------------	---------------	-------------------	----------

Mannesmann Mapress Stainless Steel Pipes

12		15.0	1.00	0.35	0.5	1.25
15		18.0	1.00	0.42	0.6	1.50
20		22.0	1.20	0.62	0.9	2.00
25		28.0	1.50	0.80	1.3	2.25
32		35.0	1.50	1.26	2.1	2.75
40		42.0	1.50	1.52	2.7	3.00
50		54.0	2.00	2.63	4.6	3.50
65		76.1	2.00	3.71	7.8	4.25
80		88.9	2.00	4.35	10.0	4.75
100		108.0	2.00	5.31	13.8	5.00

Mannesmann Mapress C-Steel Pipes

10		14.0	1.20	0.34	0.4	1.25
12		17.0	1.20	0.43	0.6	1.25
15		20.0	1.20	0.54	0.7	1.50
20		24.0	1.50	0.82	1.1	2.00
25		30.0	1.50	1.05	1.6	2.25
32		37.0	1.50	1.32	2.1	2.75
40		44.0	1.50	1.62	2.8	3.00
50		56.0	1.50	2.10	4.2	3.50

Gerberit Mepla

12		16.0	2.25	0.13	0.3	1.50
15		20.0	2.50	0.19	0.4	1.50
20		26.0	3.00	0.30	0.6	1.50
25		32.0	3.00	0.42	1.0	2.00
32		40.0	3.50	0.60	1.5	2.00
40		50.0	4.00	0.84	2.2	2.50
50		63.0	4.50	1.11	3.4	2.50
65		75.0	4.70	1.45	4.8	3.00

Uponor Unipipe white

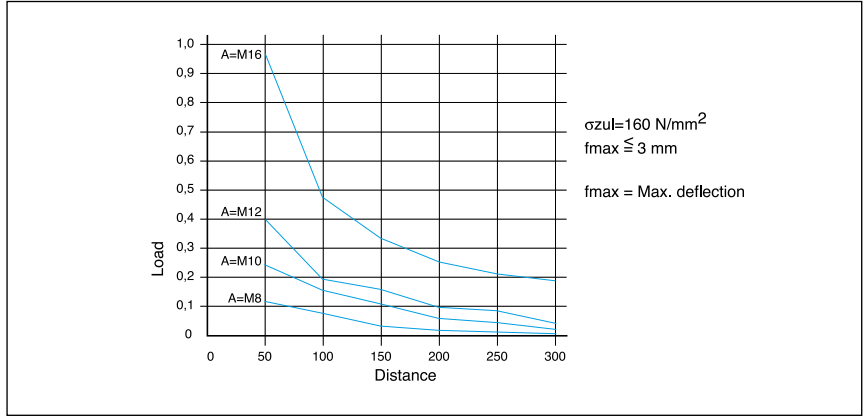
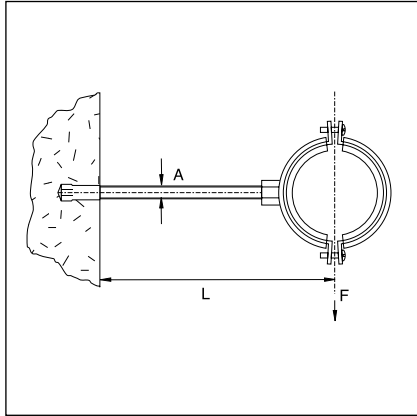
		14.0	2.00	0.09	0.2	1.20
		16.0	2.00	0.12	0.3	1.20
		18.0	2.00	0.13	0.3	1.20
		20.0	2.25	0.18	0.4	1.30
		25.0	2.50	0.24	0.6	1.50
		32.0	3.00	0.32	0.9	1.60
		40.0	4.00	0.51	1.3	1.70
		50.0	4.50	0.74	2.1	2.00
		63.0	6.00	1.22	3.3	2.20
		75.0	7.50	1.79	4.6	2.40
		90.0	8.50	2.56	6.8	2.40
		110.0	10.00	3.63	10.0	2.40

Size	DIN24145 mm	weight per meter by thickness				
		0.4 mm	0.6 mm	0.8 mm	1.0 mm	1.2 mm

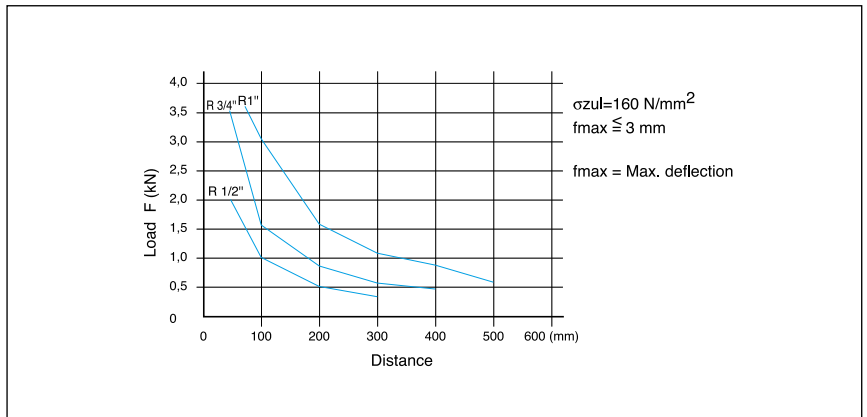
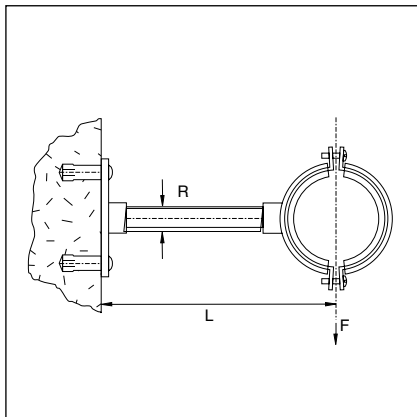
Ventilation ducts

80	80	0.4	0.9	1.35			
100	100	0.6	1.1	1.69	2.25		
112	112	0.6	1.2	1.89	2.52		
125	125	0.6	1.4	2.11	2.81		
140	140	0.6	1.5	2.36	3.15		
150	150	0.6		2.53	3.38		
160	160	0.6		2.70	3.60		
180	180	0.6		3.07	4.05		
200	200	0.6		3.38	4.50	5.63	
224	224	0.6		3.78	5.04	6.30	
250	250	0.6		4.22	5.63	7.03	
280	280	0.6		4.73	6.30	7.88	
300	300	0.6		5.06	6.75	8.44	
315	315	0.6		5.32	7.09	8.86	
355	355	0.8		5.99	7.99	10.00	
400	400	0.8		6.75	9.00	11.30	13.77
450	450	0.8			10.13	12.70	15.49
500	500	0.8			11.25	14.10	17.21
560	560	1.0			12.60	15.80	19.28
600	600	1.0			13.50	16.80	20.65
630	630	1.0			14.18	17.70	21.69
710	710	1.0			15.98	20.00	24.44
800	800	1.0				22.50	27.54
900	900	1.0				25.30	30.98
1000	1000	1.2				28.10	34.42

Loading Data on Threaded Rod



Loading data on threaded tube



Note: The loads are only an example for an anchor bolt type FAZ in cracked concrete C20/25 resp. B25. When using other anchors or anchor bolts or other fastening grounds the load has to be calculated accordingly.

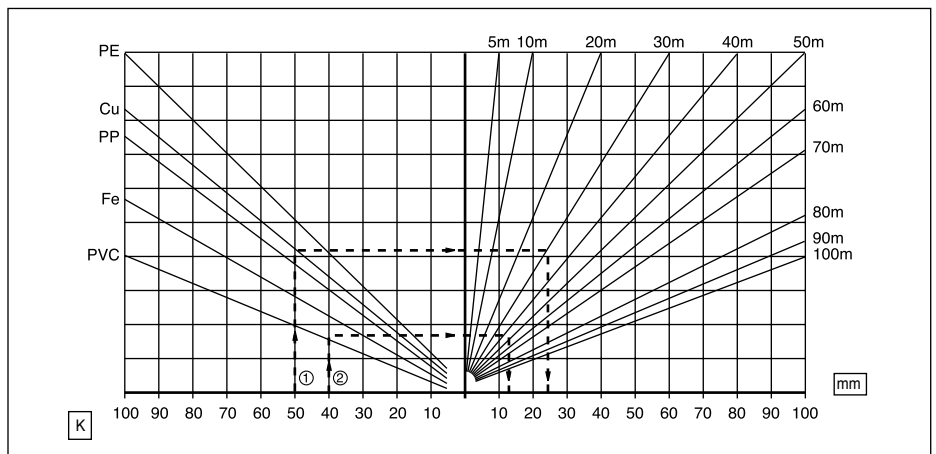
Pipe expansion table

- PE 0.2 (mm/mK)
 - Cu 0.0165 (mm/mK)
 - PP 0.15 (mm/mK)
 - Fe 0.0115 (mm/mK)
 - PVC 0.08 (mm/mK)
- ΔL = Pipe expansion
 L = Length of tube
 ΔT = Temperature difference
 a = Expansion coefficient

$$\Delta L = L \cdot \Delta T \cdot a$$

(mm) (m) (mm/m k)

Note: Plastic pipes (PE, PP, PVC) multiply the expansion value from the chart by 10.

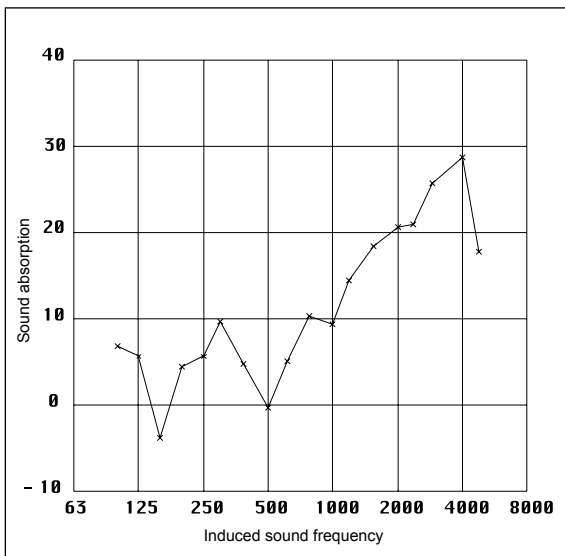
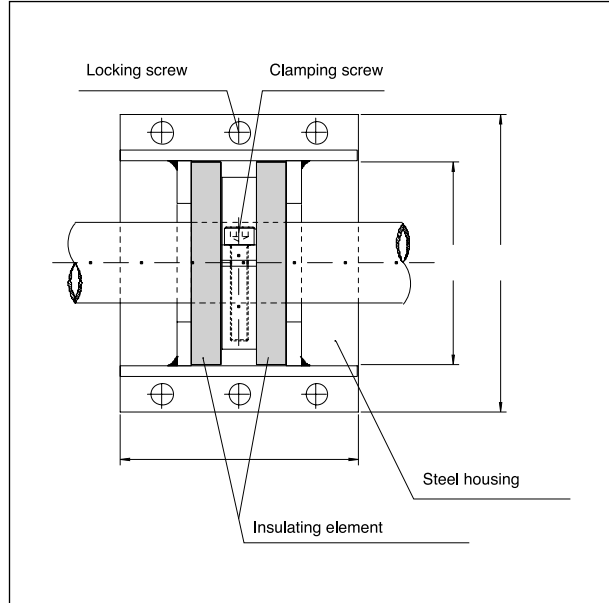


Example 1: Cu, 30 m
 Temperature difference: $\Delta T = 50 \text{ K}$
 Dilatation: $\Delta L = 24.75 \text{ mm}$

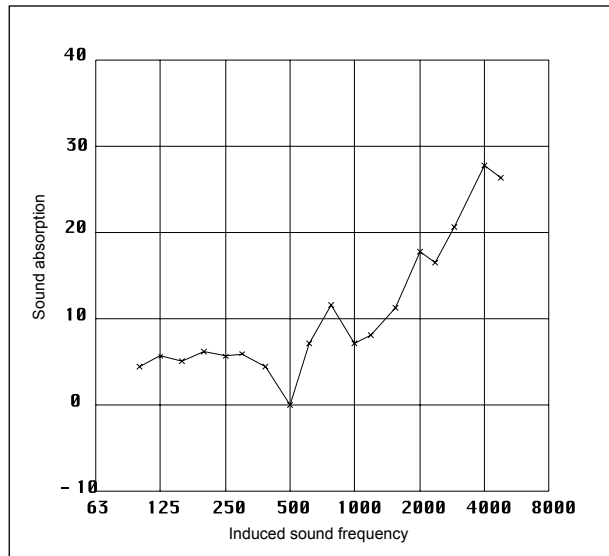
Example 2: PVC, 40 m
 Temperature difference: $\Delta T = 40 \text{ K}$
 Dilatation: $\Delta L = 128 \text{ mm}$

Technical details

- The clamping ring must be fastened to the torque mentioned in the table
- The fixed point needs to be positioned between two supports
- The max. anchor loads of the fixed point configuration are mentioned in the table



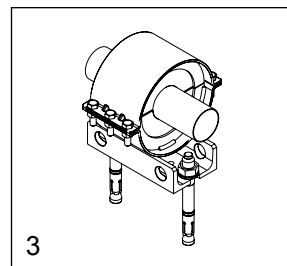
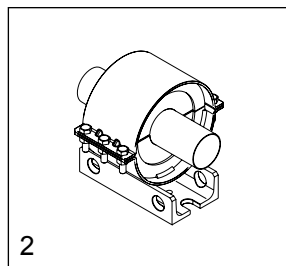
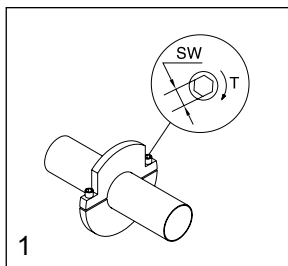
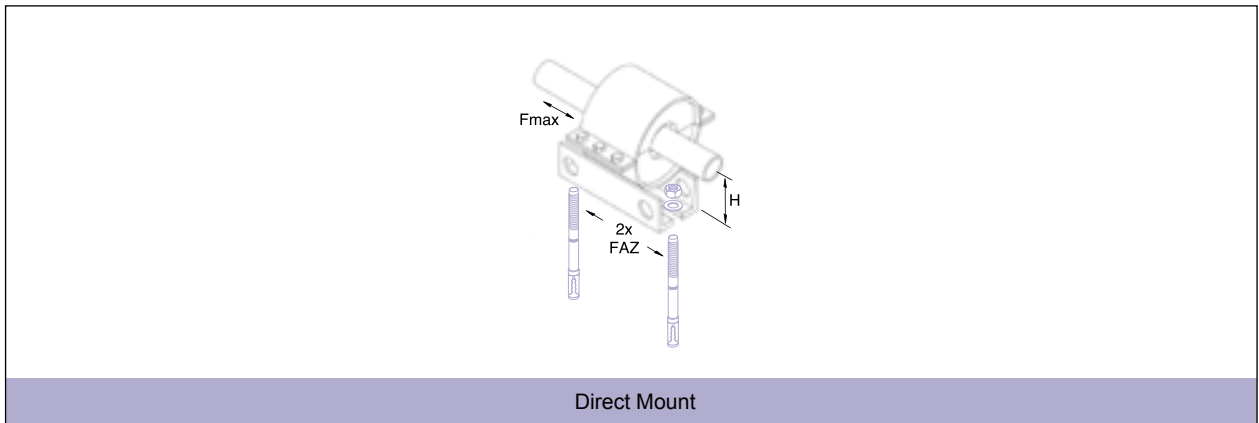
Fixed point installed without axial loading
Sound absorption 20.7 dB (A) measured with an induced sound frequency of 2000 Hz

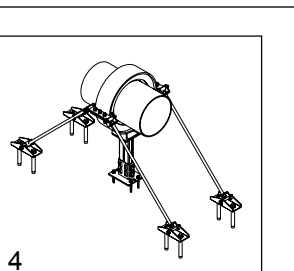
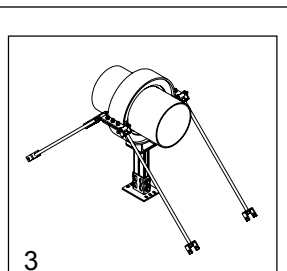
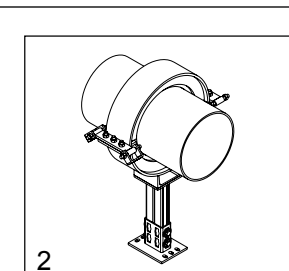
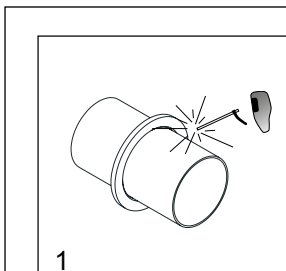
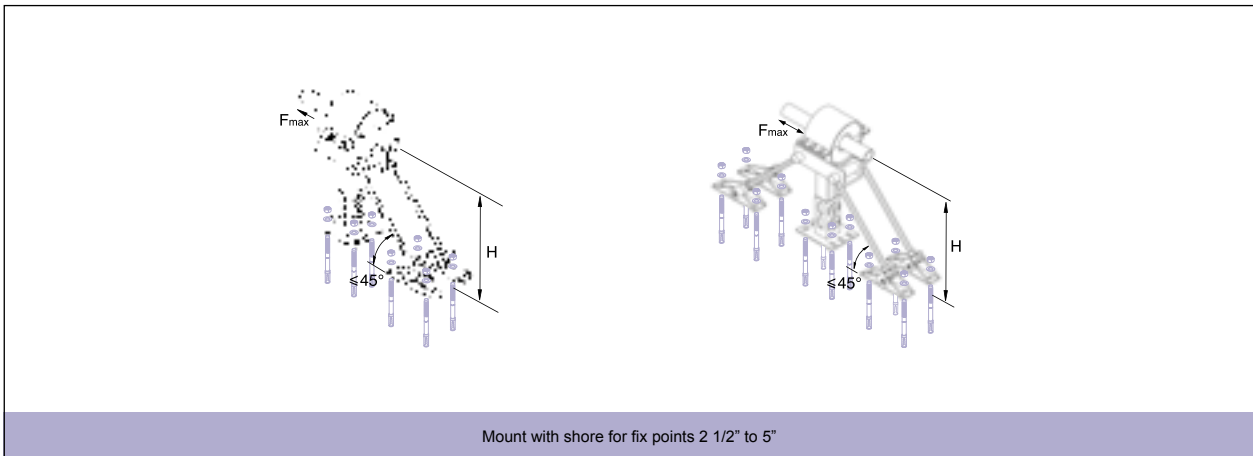
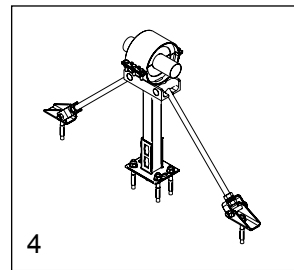
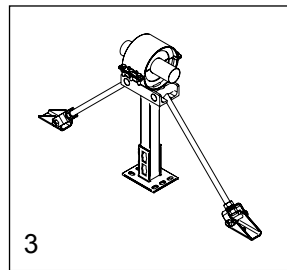
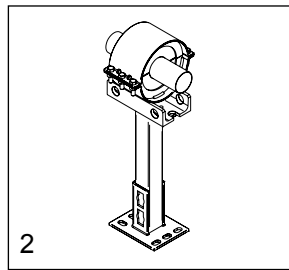
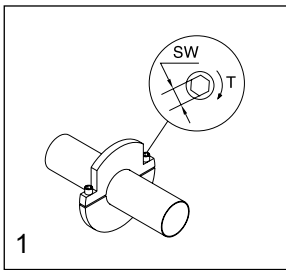
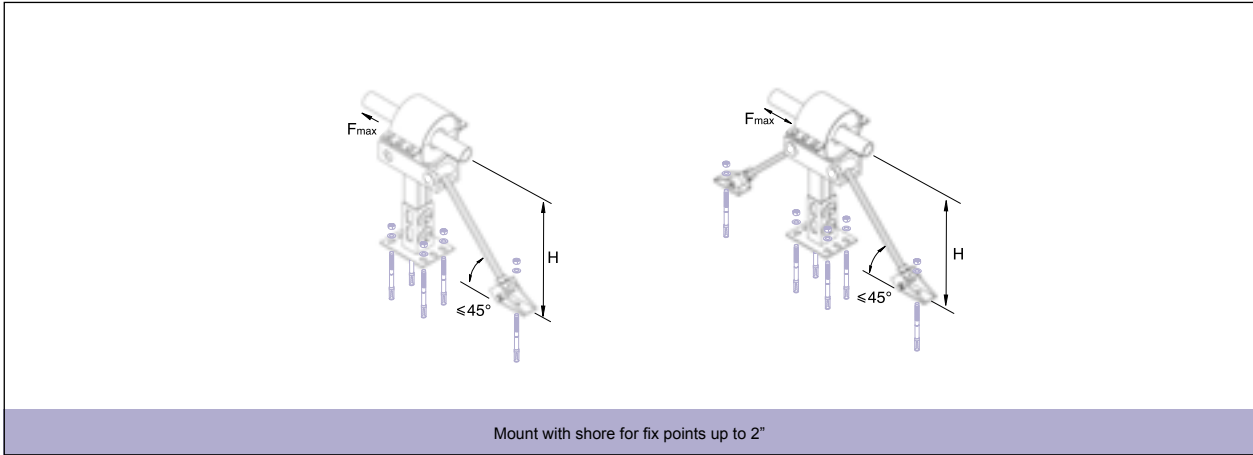


Fixed point installed with 2.1 kN axial load
Sound absorption 17.7 dB (A) measured with an induced sound frequency of 2000 Hz

Art. Nr. T < +120°C	Art. Nr. T > +220°C	D		T Nm	Direct Mount			Mount with single shore					Mount with double shore										
		mm	"		H mm	FAZ-II		Fmax kN	min mm	H mm	max Qty	FAZ-II			Fmax kN	min mm	H mm	max Qty	FAZ-II			Fmax kN	
						Typ	Qty					Typ	Qty	Typ					Qty/brace	Typ	Qty		Typ
1501151	1502151	15	-	15	72	12/10	2	5	200 - 1000	10/10	4	12/10	1	3									
1501181	1502181	18	3/8	15	72	12/10	2	5	200 - 1000	10/10	4	12/10	1	3									
1501221	1502221	22	1/2	15	72	12/10	2	5	200 - 1000	10/10	4	12/10	1	3									
1501281	1502281	28	3/4	15	72	12/10	2	5	200 - 1000	10/10	4	12/10	1	3									
1501352	1502352	35	1	15	85	12/10	2	5	200 - 1000	10/10	4	16/25	1	5									
1501422	1502422	42	1 1/4	15	85	12/10	2	5	200 - 1000	10/10	4	16/25	1	5									
1501483	1502483	48	1 1/2	30	100	16/25	2	8	200 - 1000	10/10	4	16/25	2	10									
1501543	1502543	54	-	30	100	16/25	2	8	200 - 1000	10/10	4	16/25	2	10									
1501573	1502573	57	-	30	100	16/25	2	8	200 - 1000	10/10	4	16/25	2	10									
1501603	1502603	60	2	30	100	16/25	2	8	200 - 1000	10/10	4	16/25	2	10									
1501764	1502764	76	2 1/2	30	115	16/25	2	10	-	-	-	-	-	200 - 1000	10/10	4	16/25	8	15				
1501894	1502894	89	3	30	115	16/25	2	10	-	-	-	-	-	200 - 1000	10/10	4	16/25	8	15				
1501145	1502145	114	4	60	158	16/25	2	10	-	-	-	-	-	200 - 1000	10/10	4	20/30	8	20				
1501405	1502405	140	5	60	158	16/25	2	10	-	-	-	-	-	200 - 1000	10/10	4	20/30	8	20				
1501686	1502686	168	6	weld	180	16/25	2	20	-	-	-	-	-	310 - 1000	10/10	4	20/60	8	30				
1501197	1502197	219	8	weld	210	16/25	2	20	-	-	-	-	-	330 - 1000	10/10	4	20/60	8	30				
1501738	1502738	273	10	weld	250	16/25	2	20	-	-	-	-	-	370 - 1000	10/10	4	20/60	8	30				

Installation Instructions Fixpoint Herkules





Mount with shore for fix points 6", 8" and 10"

⚠️ Weld 5x50 mm according DIN1912T5

⚠️ Always use 4 diagonal braces DIN975-M16:8.8

The quality association - Gütegemeinschaft Rohrbefestigung e.V.

The "Gütegemeinschaft Rohrbefestigung e.V." is an across-the-board organisation of producers aimed at addressing the task of creating a set of engineering rules and regulations covering quality assurance and quality control. Since December 2003, it has been officially recognised by RAL - the German Institute for Quality Assurance and Certification.



Comparability

The foremost aim of the "Gütegemeinschaft Rohrbefestigung e.V." is to allow the performance and quality of pipe fixing systems made by different manufacturers to be objectively compared with one another. This is done by defining a standard assessment process to ascertain the technical data of pipe fixing systems. This will result in a level of transparency in the market which will directly benefit the customer.

Quality

"Certified quality" is another item which is high on our list of priorities. Each and every product series must prove its performance qualities in an initial test before a quality mark can be awarded. Afterwards, regular tests then ensure that the quality and performance of the quality-assured products are maintained. The members own control systems are supplemented by neutral and independent external quality controls carried out by internationally recognised testing centres such as the MPA-NRW and the KIWA.

Reliability and trust

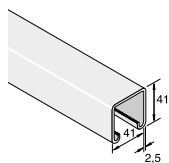
The "Gütegemeinschaft Rohrbefestigung e.V." strictly monitors the use of the quality mark imposing severe punishment for any case of misuse. External controls conducted by neutral test centres serve to protect the users of the quality mark just as much as the specifications concerning the disclosure of the technical data of products and contributes to creating a justifiable confidence in a neutral quality mark.

Benefits for the trade

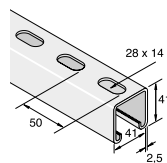
- Simple to select just the right type of fixture
- Reliable load capacity of the fixture
- High-level of safety-proven in neutral tests carried out by recognised test centres
- Practice-oriented, comparable maker's specification
- Certainty of installing a quality product
- Certified products support the master crafted design

Benefits for planners & architects

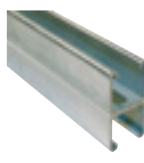
- Reliable technical rules and regulations
- Certified product/packaging facilitate installation controls
- Easier to check product quality
- Maker's product specifications certified
- Safety during the planning phase
- Tendering of quality products



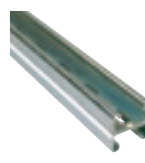
P1000



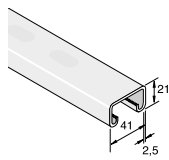
P1000T



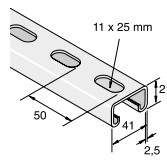
P1001T



P3301T10



P3300



P3300T



Mini



Standard-R



Perfect-R



Perfect-1S



UNI Solid-N



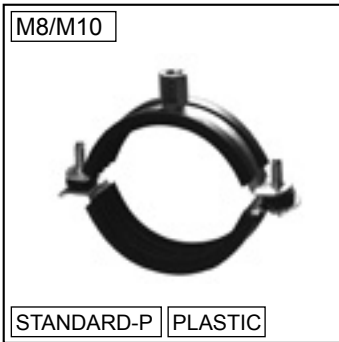
UNI Solid-R



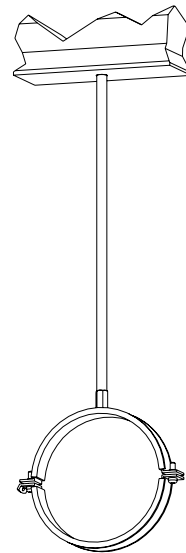
For additional information:
Internet: www.safe-connection.de



IBMB Nr.
3594/9014



Installation

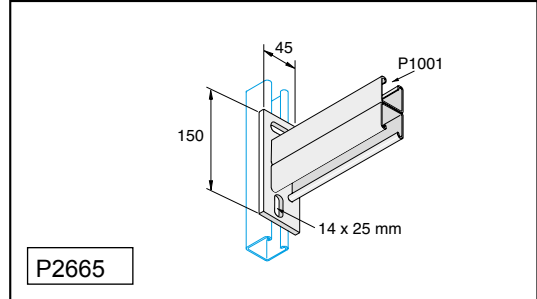
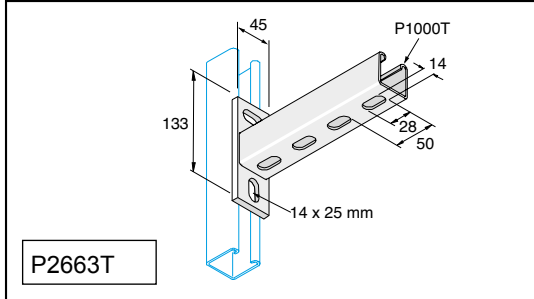


IBMB Nr.
3145/2404



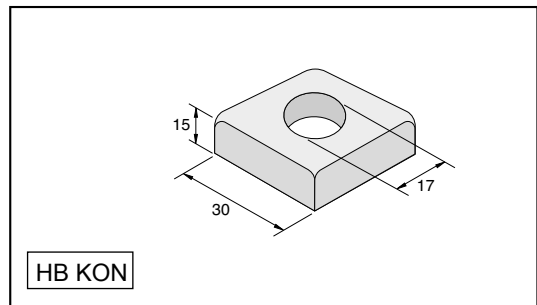
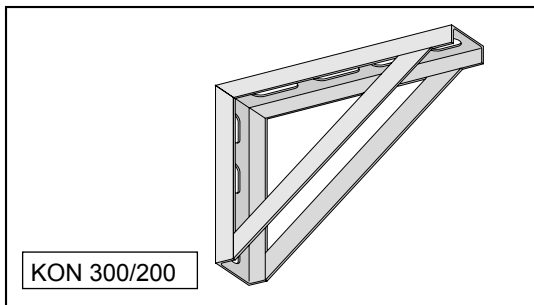
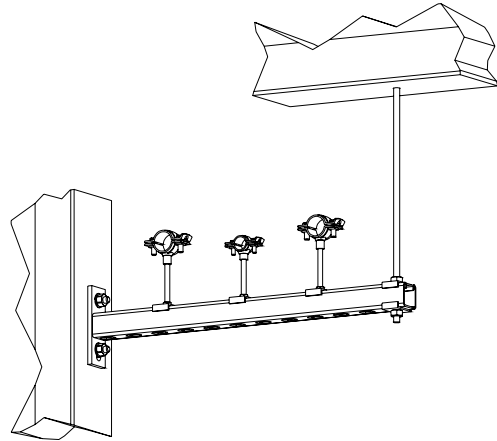
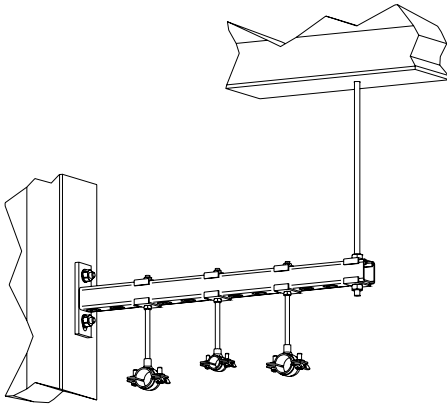
IBMB Nr.
3146/2414

Fire Rating Approved Products



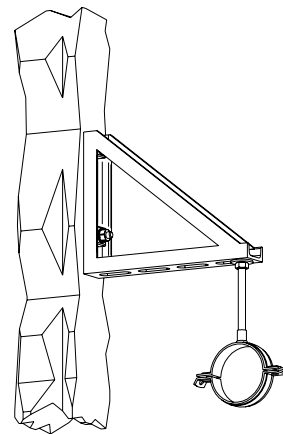
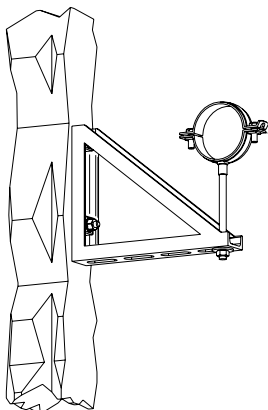
IBMB Nr.
3925/2404

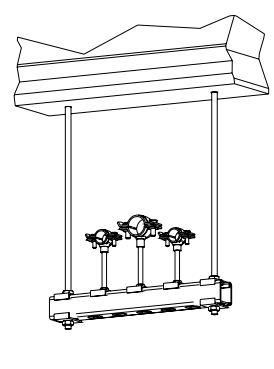
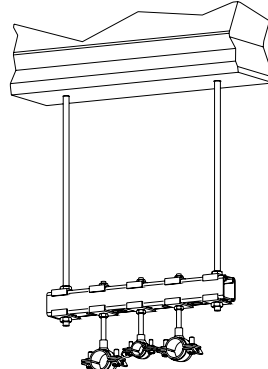
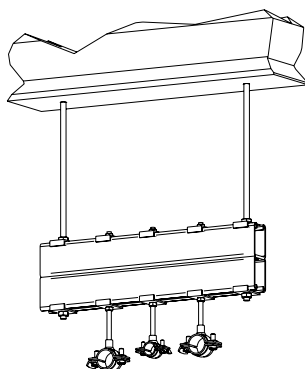
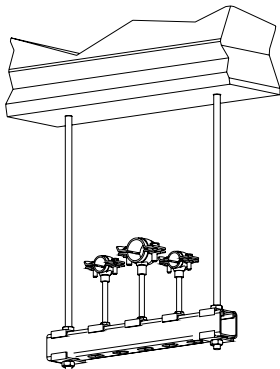
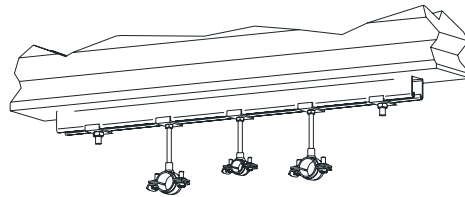
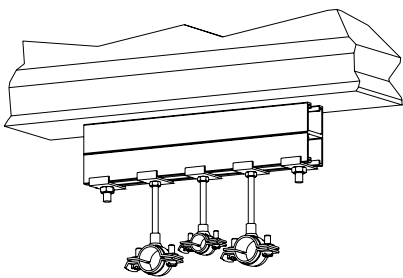
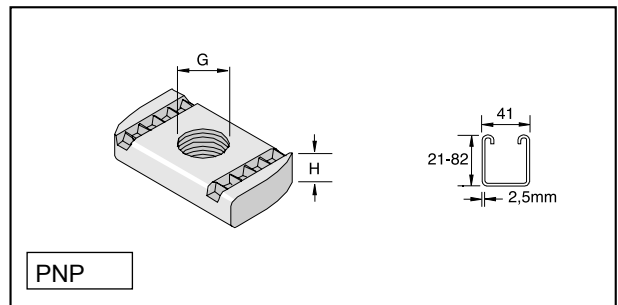
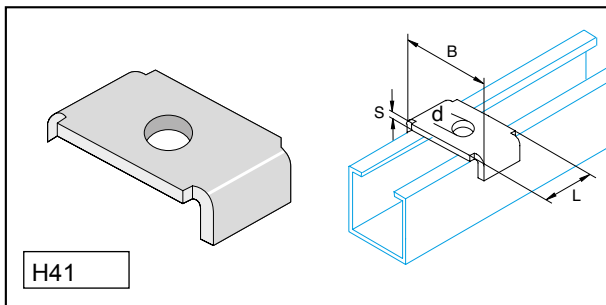
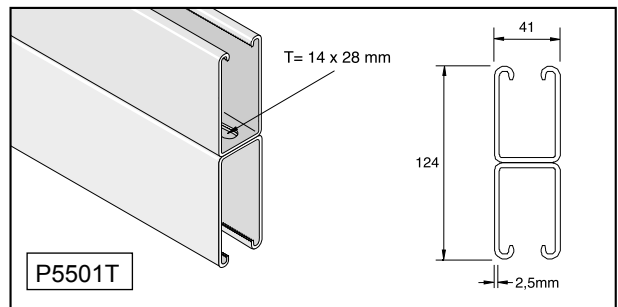
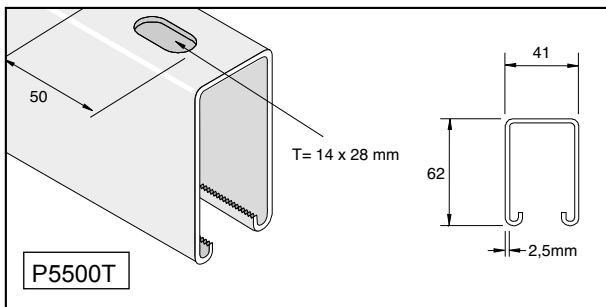
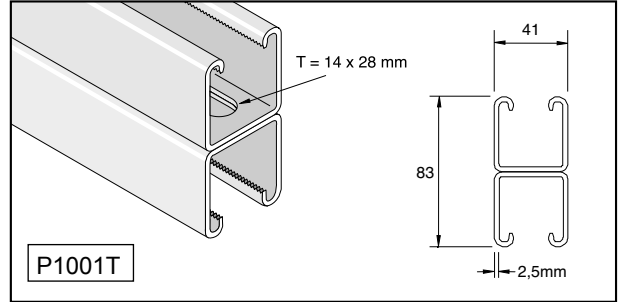
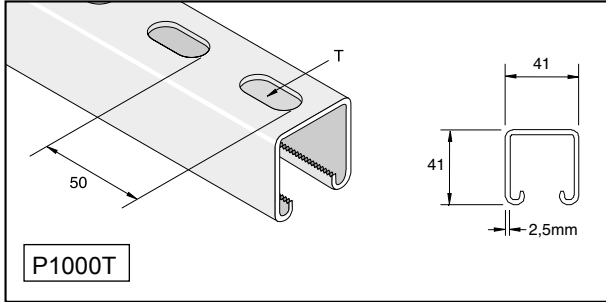
Installation



IBMB Nr.
3925/2404

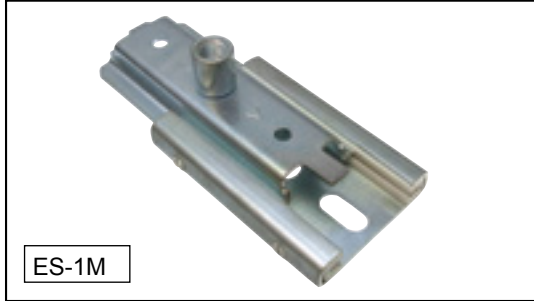
Installation





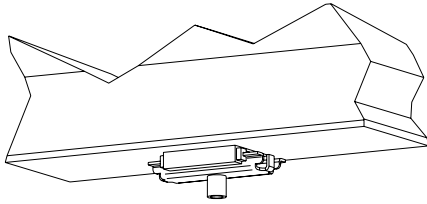


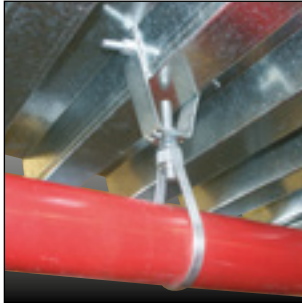
Fire Rating Approved Products

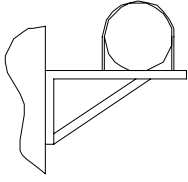
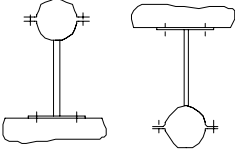
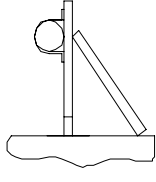
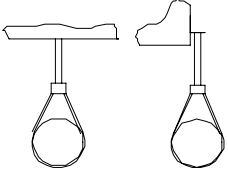
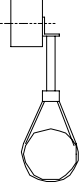
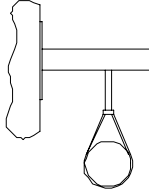
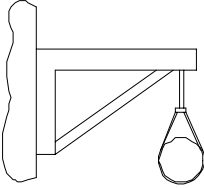
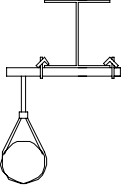
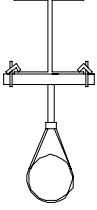
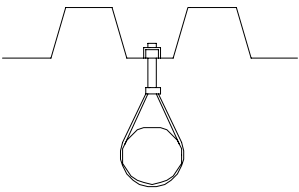
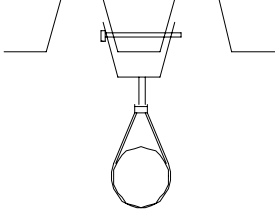
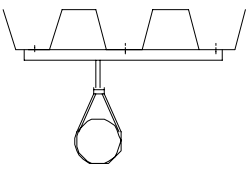
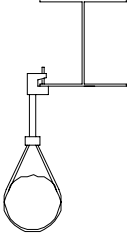
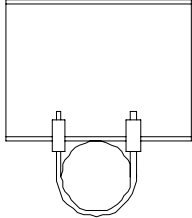
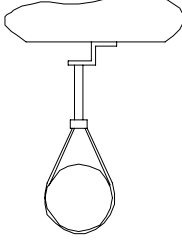
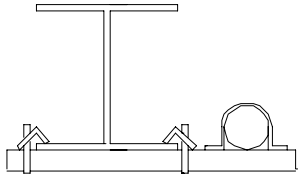


IBMB Nr.
3677/1695

Installation





 <p>SECTION 1</p>	 <p>SECTION 2</p>	 <p>SECTION 3</p>	 <p>SECTION 4</p>
 <p>SECTION 5</p>	 <p>SECTION 6</p>	 <p>SECTION 7</p>	 <p>SECTION 8</p>
 <p>SECTION 9</p>	 <p>SECTION 10</p>	 <p>SECTION 11</p>	 <p>SECTION 12</p>
 <p>SECTION 13</p>	 <p>SECTION 14</p>	 <p>SECTION 15</p>	 <p>SECTION 16</p>

We offer a wide range of standard sprinkler supports which can be pre-assembled in house. Our Application Engineering Department can assist you in finding the best Sprinkler Support Solution. Detailed technical Catalog / CD-Rom available on request.

Cable Management Solutions Catalogue



Fire Protection Catalogue



Mechanical Catalogue



SprinkCAD Catalogue



The logo consists of the text "Metal Framing System" centered between two parallel white diagonal lines that slant upwards from left to right. The text is white and set against a solid blue background.

Metal
Framing
System

1 Medium & Heavy Duty Framing System



Unistrut Channels 41mm Galvanised
Page 33



Kwikstrut Fittings 41mm Galvanised
Page 44



Unistrut Fittings 41mm Galvanised
Page 55



Unistrut Channels 41mm Hot Dip Galvanised
Page 62



Kwikstrut Fittings 41mm Hot Dip Galvanised
Page 68



Unistrut Fittings 41mm Hot Dip Galvanised
Page 82



Unistrut Channels 41mm Stainless Steel
Page 94



Kwikstrut Fittings 41mm Stainless Steel
Page 98



Unistrut Fittings 41mm Stainless Steel
Page 104

2 Cantilever Arms & Angle Brackets



Galvanised
Page 113



Hot Dip Galvanised
Page 115



Stainless Steel
Page 125

3 Light Duty Framing System



Light Duty UNI Channels Galvanised
Page 126

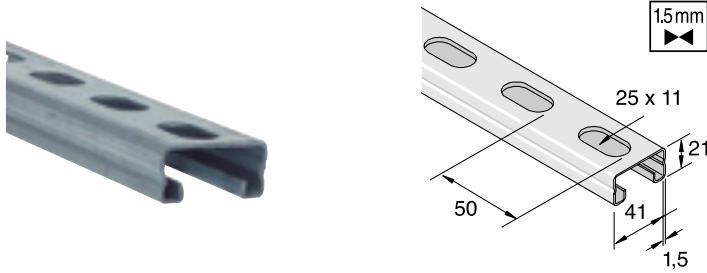


Light Duty UNI Fittings Galvanised
Page 129



Single channel T4000T10

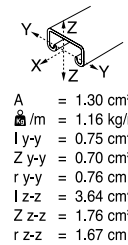
Material : Steel S280 GD EN10147



T4000T10

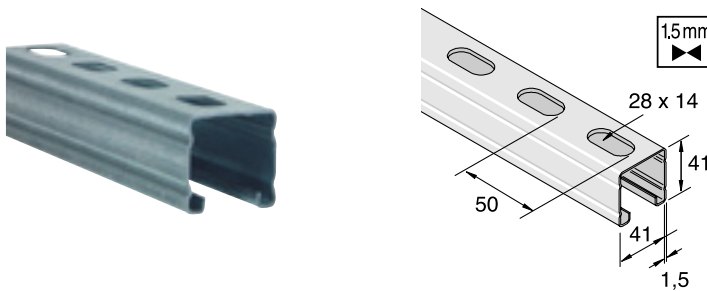
Art.Nr.	L mm		KG 1 pcs.
P4011322	2000	50	2.32
P4011323	3000	50	3.48
P4011326	6000	50	6.96

L(mm)	$\sigma=175 \text{ N/mm}^2$		$\sigma=175 \text{ N/mm}^2$		$\delta = 1/200L$	$\delta = 1/360L$	$F(kN)$
	Fmax(kN)	$\delta_{max}(mm)$	Fmax(kN)	$\delta_{max}(mm)$	F (kN)	F (kN)	
250	1.957	0.41	3.914	0.51	-	-	-
500	0.976	1.66	1.952	2.07	-	1.305	-
750	0.652	3.73	1.305	4.66	1.040	0.579	-
1000	0.486	6.63	0.971	8.29	0.589	0.324	-
1250	0.387	10.37	0.775	12.96	0.373	0.206	-
1500	0.324	14.94	0.647	18.67	0.255	-	-
1750	0.280	20.33	0.559	25.41	-	-	-
2000	0.240	26.55	0.481	33.19	-	-	-



Single channel T2000T

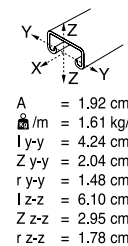
Material : Steel DX51D + Z275 - EN 10142



T2000T

Art.Nr.	L mm		KG 1 pcs.
P2011223	3000	50	4.83
P2011226	6000	50	9.74

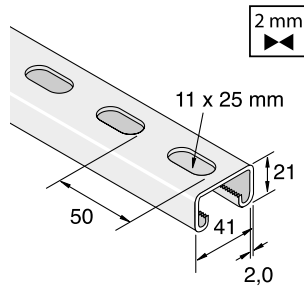
L(mm)	$\sigma=160 \text{ N/mm}^2$		$\sigma=160 \text{ N/mm}^2$		$\delta = 1/200L$	$\delta = 1/360L$	$F(kN)$
	Fmax(kN)	$\delta_{max}(mm)$	Fmax(kN)	$\delta_{max}(mm)$	F (kN)	F (kN)	
250	5.221	0.19	10.441	0.24	-	-	11.350
500	2.615	0.77	5.230	0.96	-	-	11.183
750	1.737	1.73	3.474	2.16	-	-	10.654
1000	1.298	3.07	2.597	3.84	-	1.165	9.310
1250	1.033	4.77	2.066	5.96	-	0.748	7.799
1500	0.865	6.94	1.730	8.68	-	0.51	6.543
1750	0.735	9.42	1.470	11.78	0.68	0.371	5.552
2000	0.640	12.31	1.280	15.39	0.515	0.277	4.787
2250	0.565	15.62	1.130	19.53	0.4	0.213	4.179
2500	0.503	19.24	1.006	24.05	0.316	0.166	3.698



*k.L/r >= 180 < 250

Single channel T3100T10

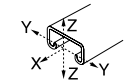
Material : Steel DX51D + Z275 - EN 10142



T3100T10

Art.Nr.	L mm	KG 1 pcs.
P3111322	2000	2.88
P3111323	3000	4.32
P3111326	6000	8.64

L(mm)	$\sigma=175 \text{ N/mm}^2$		$\sigma=175 \text{ N/mm}^2$		$\delta = 1/200L$	$\delta = 1/360L$	F(kN)
	Fmax(kN)	$\delta_{max}(mm)$	Fmax(kN)	$\delta_{max}(mm)$	F (kN)	F (kN)	
250	2.492	0.40	4.983	0.50	-	-	-
500	1.246	1.61	2.492	2.01	-	1.707	-
750	0.829	3.63	1.658	4.54	1.364	0.755	-
1000	0.623	6.46	1.246	8.07	0.765	0.422	-
1250	0.495	10.09	0.991	12.61	0.491	0.265	-
1500	0.412	14.54	0.824	18.17	0.334	-	-
1750	0.353	19.78	0.706	24.73	0.245	-	-
2000	0.309	25.84	0.618	32.30	-	-	-

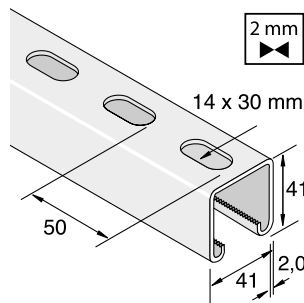


$A = 1.97 \text{ cm}^2$
 $\rho/m = 1.44 \text{ kg/m}$
 $I_{y-y} = 0.98 \text{ cm}^4$
 $Z_{y-y} = 0.89 \text{ cm}^3$
 $r_{y-y} = 0.70 \text{ cm}$
 $I_{z-z} = 5.29 \text{ cm}^4$
 $Z_{z-z} = 2.56 \text{ cm}^3$
 $r_{z-z} = 1.63 \text{ cm}$

Medium & Heavy Duty Framing System

Single channel T1100T

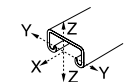
Material : Steel S280 + Z275 - EN 10326 : 2004



T1100T

Art.Nr.	L mm	KG 1 pcs.
P1111222	2000	4.36
P1111223	3000	6.54
P1111226	6000	12.56

L(mm)	$\sigma=175 \text{ N/mm}^2$		$\sigma=175 \text{ N/mm}^2$		$\delta = 1/200L$	$\delta = 1/360L$	F(kN)
	Fmax(kN)	$\delta_{max}(mm)$	Fmax(kN)	$\delta_{max}(mm)$	F (kN)	F (kN)	
250	6.605	0.19	13.210	0.24	-	-	-
500	3.302	0.77	6.604	0.96	-	-	-
750	2.202	1.73	4.404	2.17	-	-	-
1000	1.651	3.07	3.302	3.86	-	1.492	-
1250	1.321	4.80	2.642	6.10	-	0.955	-
1500	1.101	6.92	2.202	8.80	-	0.663	-
1750	0.944	9.41	1.888	12.00	0.877	0.487	-
2000	0.826	12.29	1.652	15.73	0.672	0.373	-
2250	0.734	15.56	1.468	20.00	0.531	0.295	-
2500	0.660	19.21	1.320	24.90	0.430	0.239	-

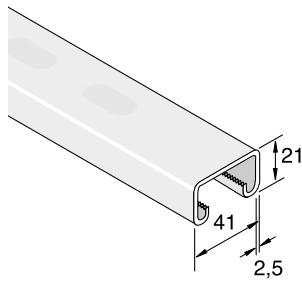


$A = 2.51 \text{ cm}^2$
 $\rho/m = 2.18 \text{ kg/m}$
 $I_{y-y} = 5.33 \text{ cm}^4$
 $Z_{y-y} = 2.58 \text{ cm}^3$
 $r_{y-y} = 1.42 \text{ cm}$
 $I_{z-z} = 9.17 \text{ cm}^4$
 $Z_{z-z} = 4.44 \text{ cm}^3$
 $r_{z-z} = 1.74 \text{ cm}$



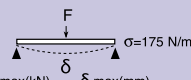
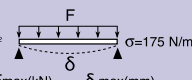

Unistrut single channel P3300

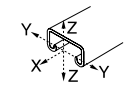
Material : Steel S280 + Z275 - EN 10326 : 2004



P3300

Art.Nr.	L mm		KG 1 pcs.
P3311123	3000	50	5.36
P3311126	6000	50	10.72

L(mm)					$\delta = 1/200L$ F (kN)	$\delta = 1/360L$ F (kN)	
	Fmax(kN)	δ_{max} (mm)	Fmax(kN)	δ_{max} (mm)			
250	2.712	0.36	5.425	0.45	-	-	10,222
500	1.354	1.45	2.708	1.81	-	2.080	9.761
750	0.903	3.26	1.805	4.07	1.658	0.922	8.427
1000	0.677	5.79	1.354	7.24	0.932	0.520	6.769
1250	0.540	9.06	1.079	11.32	0.598	0.324	5.376
1500	0.451	13.04	0.903	16.30	0.412	0.226	4.287*
1750	0.387	17.75	0.775	22.19	0.304	-	3.463*
2000	0.338	23.19	0.677	28.99	0.226	-	-

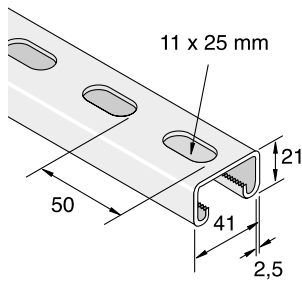


$A = 2.32 \text{ cm}^2$
 $\rho/m = 1.79 \text{ kg/m}$
 $I_{y-y} = 1.19 \text{ cm}^4$
 $Z_{y-y} = 0.97 \text{ cm}^3$
 $r_{y-y} = 0.71 \text{ cm}$
 $I_{z-z} = 5.34 \text{ cm}^4$
 $Z_{z-z} = 2.59 \text{ cm}^3$
 $r_{z-z} = 1.51 \text{ cm}$

*k.L/r \Rightarrow 180 < 250

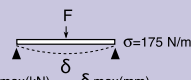
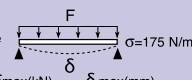

Unistrut single channel P3300T10

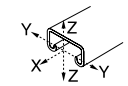
Material : Steel S280 + Z275 - EN 10326 : 2004



P3300T10

Art.Nr.	L mm		KG 1 pcs.
P3311322	2000	50	3.14
P3311323	3000	50	4.71
P3311326	6000	50	9.42

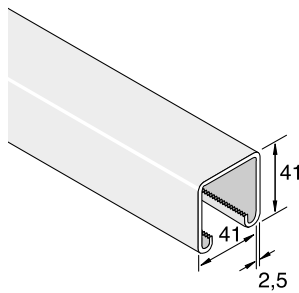
L(mm)					$\delta = 1/200L$ F (kN)	$\delta = 1/360L$ F (kN)	
	Fmax(kN)	δ_{max} (mm)	Fmax(kN)	δ_{max} (mm)			
250	2.492	0.40	4.983	0.50	-	-	-
500	1.246	1.61	2.492	2.01	-	1.707	-
750	0.829	3.63	1.658	4.54	1.364	0.755	-
1000	0.623	6.46	1.246	8.07	0.765	0.422	-
1250	0.495	10.09	0.991	12.61	0.491	0.265	-
1500	0.412	14.54	0.824	18.17	0.334	-	-
1750	0.353	19.78	0.706	24.73	0.245	-	-
2000	0.309	25.84	0.618	32.30	-	-	-



$A = 1.97 \text{ cm}^2$
 $\rho/m = 1.57 \text{ kg/m}$
 $I_{y-y} = 0.98 \text{ cm}^4$
 $Z_{y-y} = 0.89 \text{ cm}^3$
 $r_{y-y} = 0.70 \text{ cm}$
 $I_{z-z} = 5.29 \text{ cm}^4$
 $Z_{z-z} = 2.56 \text{ cm}^3$
 $r_{z-z} = 1.63 \text{ cm}$

Unistrut single channel P1000

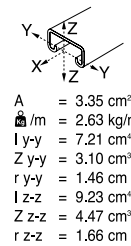
Material : Steel S280 + Z275 - EN 10326 : 2004



P1000

Art.Nr.	L mm	KG 1 pcs.
P1011126	6000	15.75

L(mm)	Fmax(kN) δmax(mm)		Fmax(kN) δmax(mm)		F (kN)	δ = 1/360L F (kN)	F (kN)
	σ=175 N/mm²		σ=175 N/mm²				
250	8.677	0.18	17.354	0.23	-	-	16.608
500	4.336	0.76	8.672	0.95	-	-	16.187
750	2.889	1.72	5.778	2.15	-	5.602	15.245
1000	2.168	3.06	4.336	3.82	-	3.149	13.685
1250	1.731	4.78	3.463	5.97	-	2.011	12.086
1500	1.442	6.88	2.884	8.60	2.521	1.393	10.722
1750	1.236	9.36	2.472	11.70	1.844	1.020	9.575
2000	1.084	12.23	2.168	15.29	1.413	0.785	8.623
2250	0.961	15.48	1.923	19.35	1.118	0.618	7.819
2500	0.863	19.11	1.727	23.89	0.903	0.500	7.112

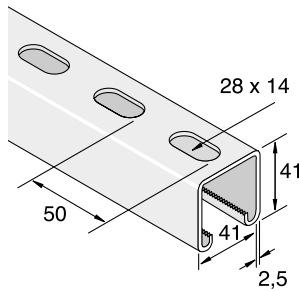


*k.L/r => 180 < 250

Medium & Heavy Duty Framing System

Unistrut single channel P1000T

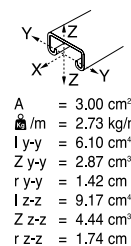
Material : Steel S280 + Z275 - EN 10326 : 2004



P1000T

Art.Nr.	L mm	KG 1 pcs.
P1011222	2000	4.92
P1011223	3000	7.39
P1011226	6000	2.65

L(mm)	Fmax(kN) fmax(mm)		Fmax(kN) fmax(mm)		F (kN)	δ = 1/360L F (kN)	F (kN)
	σ=175 N/mm²		σ=175 N/mm²				
250	8.034	0.22	16.069	0.27	-	-	16.283
500	4.017	0.84	8.034	1.05	-	-	16.039
750	2.678	1.88	5.356	2.35	-	4.738	15.274
1000	2.006	3.34	4.012	4.18	-	2.659	13.626
1250	1.604	5.23	3.208	6.54	3.071	1.707	11.880
1500	1.339	7.53	2.678	9.41	2.129	1.177	10.418
1750	1.148	10.25	2.296	12.81	1.560	0.863	9.231
2000	1.001	13.38	2.001	16.73	1.197	0.657	8.270
2250	0.893	16.94	1.785	21.18	0.942	0.520	7.465
2500	0.800	20.92	1.599	26.15	0.765	0.422	6.779

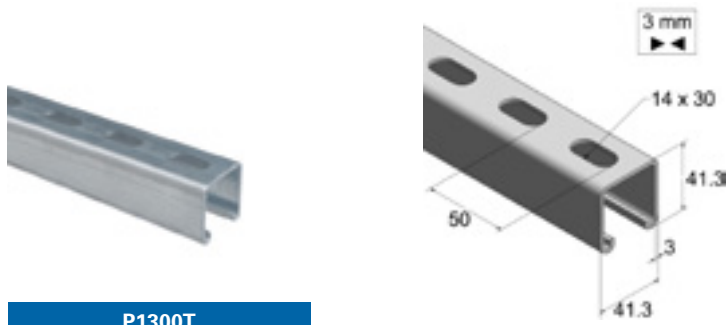


*k.L/r => 180 < 250



Unistrut single channel P1300T

Material : Steel S280 + Z275 - EN 10326 : 2004

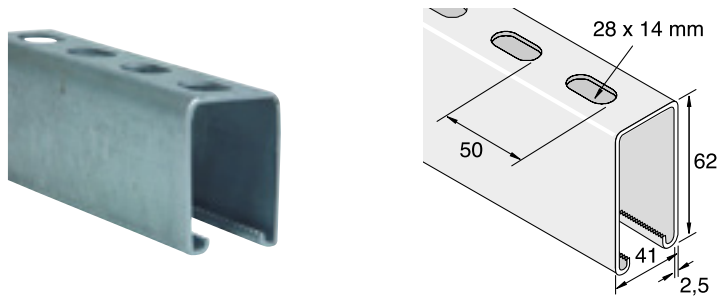


P1300T

Art.Nr.	L mm		KG 1 pcs.
P1311222	2000	50	6.22
P1311226	6000	50	18.66

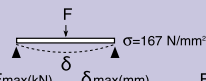
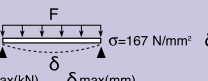

Unistrut single channel P5500T

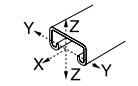
Material : Steel S280 + Z275 - EN 10326 : 2004



P5500T

Art.Nr.	L mm		KG 1 pcs.
P5511223	3000	30	9.76
P5511226	6000	20	19.52

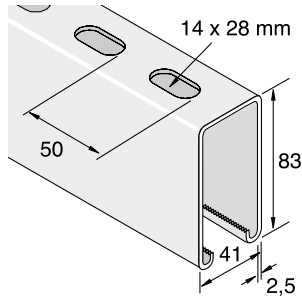
L(mm)					$\delta = 1/200L$	$\delta = 1/360L$	
	Fmax(kN)	$\delta_{max}(mm)$	Fmax(kN)	$\delta_{max}(mm)$	F (kN)	F (kN)	F (kN)
250	-	-	-	-	-	-	20.277
500	-	-	-	-	-	-	20.081
750	4.964	1.20	9.928	1.50	-	-	18.443
1000	3.723	2.14	7.446	2.67	-	-	15.245
1250	2.977	3.34	5.955	4.18	-	4.944	12.557
1500	2.482	4.82	4.964	6.02	-	3.434	10.507
1750	2.124	6.55	4.248	8.19	-	2.521	8.966
2000	1.859	8.56	3.718	10.70	3.473	1.923	7.789
2250	1.653	10.84	3.306	13.55	2.747	1.521	6.867
2500	1.486	13.38	2.972	16.73	2.217	1.236	6.141



$A = 4.03 \text{ cm}^2$
 $\rho/m = 3.25 \text{ kg/m}$
 $I_{y-y} = 17.67 \text{ cm}^4$
 $I_{z-z} = 13.07 \text{ cm}^4$
 $r_{y-y} = 2.09 \text{ cm}$
 $r_{z-z} = 1.79 \text{ cm}$

Unistrut single channel P5000T

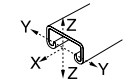
Material : Steel S280 + Z275 - EN 10326 : 2004



P5000T

Art.Nr.	L mm	KG 1 pcs.
P5011223	3000	12.17
P5011226	6000	24.33

L(mm)	$\sigma=132 \text{ N/mm}^2$		$\sigma=132 \text{ N/mm}^2$		$\delta=1/200L$	$\delta=1/360L$	F(kN)
	Fmax(kN)	$\delta_{max}(mm)$	Fmax(kN)	$\delta_{max}(mm)$	F (kN)	F (kN)	
250	-	-	-	-	-	-	19.620
500	-	-	-	-	-	-	19.355
750	6.298	0.71	12.596	0.89	-	-	16.422
1000	4.724	1.27	9.447	1.59	-	-	12.822
1250	3.777	1.98	7.554	2.48	-	-	10.124
1500	3.149	2.86	6.298	3.58	-	-	8.182
1750	2.698	3.89	5.396	4.86	-	-	6.769
2000	2.359	5.09	4.719	6.36	-	4.120	5.719
2250	2.099	6.44	4.199	8.05	-	3.257	4.934
2500	1.888	7.94	3.777	9.93	-	2.639	4.326

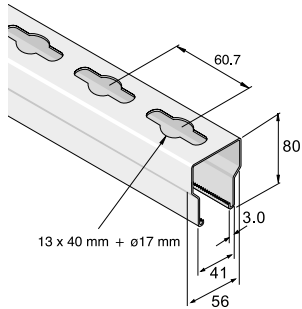


$A = 5.06 \text{ cm}^2$
 $\rho/m = 4.05 \text{ kg/m}$
 $I_{y-y} = 37.76 \text{ cm}^4$
 $Z_{y-y} = 9.01 \text{ cm}^3$
 $r_{y-y} = 2.72 \text{ cm}$
 $I_{z-z} = 16.95 \text{ cm}^4$
 $Z_{z-z} = 8.21 \text{ cm}^3$
 $r_{z-z} = 1.82 \text{ cm}$

Medium & Heavy Duty Framing System

Unistrut single channel P8000T

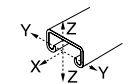
Material : Steel S280 + Z275 - EN 10326 : 2004



P8000T

Art.Nr.	L mm	KG 1 pcs.
P8012526	6000	31.65

L(mm)	$\sigma=175 \text{ N/mm}^2$		$\delta=1/200L$	$\delta=1/360L$	F (kN)
	Fmax(kN)	$\delta_{max}(mm)$	F (kN)	F (kN)	
250	-	-	-	-	-
500	29.160	0.44	-	-	-
750	19.424	0.98	-	-	-
1000	14.540	1.75	-	-	-
1250	11.610	2.73	-	-	-
1500	9.650	3.93	-	-	-
1750	8.250	5.35	-	7.481	-
2000	7.190	6.98	-	5.700	-
2250	6.370	8.84	-	4.471	-
2500	5.710	10.91	-	3.588	-

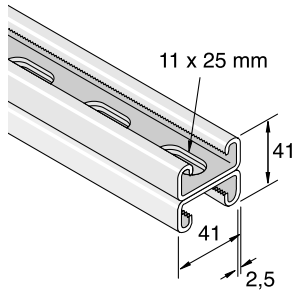


$A = 6.36 \text{ cm}^2$
 $\rho/m = 5.28 \text{ kg/m}$
 $I_{y-y} = 51.8 \text{ cm}^4$
 $Z_{y-y} = 11.4 \text{ cm}^3$
 $r_{y-y} = 2.85 \text{ cm}$
 $I_{z-z} = 27.77 \text{ cm}^4$
 $Z_{z-z} = 9.92 \text{ cm}^3$
 $r_{z-z} = 2.09 \text{ cm}$



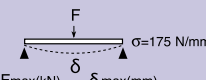
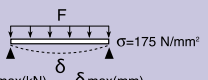

Unistrut double channel P3301T10

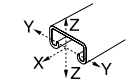
Material : Steel S280 + Z275 - EN 10326 : 2004



P3301T10

Art.Nr.	L mm		KG 1 pcs.
P3321323	3000	25	9.42
P3321326	6000	25	18.84

L(mm)					$\delta = 1/200L$ F (kN)	$\delta = 1/360L$ F (kN)	
	Fmax(kN)	$\delta_{max}(mm)$	Fmax(kN)	$\delta_{max}(mm)$			
250	7.613	0.21	15.225	0.26	-	-	17.266
500	3.806	0.86	7.613	1.07	-	-	17.030
750	2.536	1.94	5.072	2.42	-	4.365	16.599
1000	1.903	3.44	3.806	4.30	-	2.453	15.667
1250	1.521	5.38	3.041	6.72	2.825	1.570	14.156
1500	1.265	7.74	2.531	9.68	1.962	1.089	12.478
1750	1.084	10.54	2.168	13.18	1.442	0.795	10.899
2000	0.952	13.77	1.903	17.21	1.099	0.608	9.496
2250	0.844	17.42	1.687	21.78	0.873	0.481	8.289*
2500	0.760	21.49	1.521	26.86	0.706	0.392	7.250*

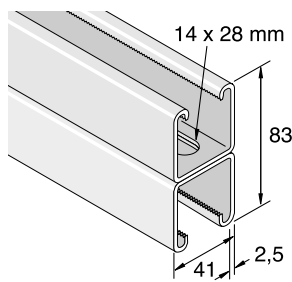
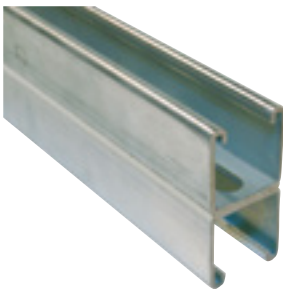


A = 3.94 cm²
 $\lambda/m = 3.14$ kg/m
 I y-y = 5.62 cm⁴
 Z y-y = 2.72 cm³
 r y-y = 1.19 cm
 I z-z = 10.58 cm⁴
 Z z-z = 5.12 cm³
 r z-z = 1.63 cm

*k.L/r =>180 < 250

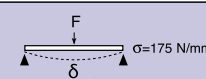
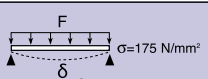

Unistrut double channel P1001T

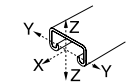
Material : Steel S280 + Z275 - EN 10326 : 2004



P1001T

Art.Nr.	L mm		KG 1 pcs.
P1021223	3000	25	14.77
P1021226	6000	25	29.54

L(mm)					$\delta = 1/200L$ F (kN)	$\delta = 1/360L$ F (kN)	
	Fmax(kN)	$\delta_{max}(mm)$	Fmax(kN)	$\delta_{max}(mm)$			
250	-	-	-	-	-	-	27.458
500	-	-	-	-	-	-	27.311
750	8.182	0.97	16.363	1.21	-	-	27.027
1000	6.136	1.72	12.272	2.15	-	-	26.585
1250	4.910	2.69	9.820	3.36	-	-	25.830
1500	4.091	3.87	8.182	4.84	-	7.034	24.584
1750	3.057	5.27	7.014	6.59	-	5.170	22.906
2000	3.066	6.89	6.131	8.61	-	3.953	21.042
2250	2.727	8.72	5.454	10.90	-	3.120	19.198
2500	2.453	10.77	4.905	13.46	4.552	2.531	17.452

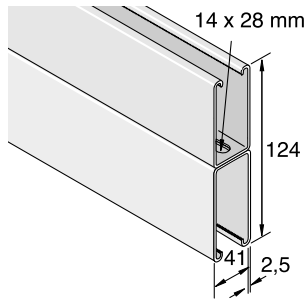


A = 6.00 cm²
 $\lambda/m = 4.92$ kg/m
 I y-y = 36.21 cm⁴
 Z y-y = 8.77 cm³
 r y-y = 2.45 cm
 I z-z = 18.34 cm⁴
 Z z-z = 8.88 cm³
 r z-z = 1.74 cm

*k.L/r =>180 < 250

Unistrut double channel P5501T

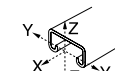
Material : Steel S280 + Z275 - EN 10326 : 2004



P5501T

Art.Nr.	L mm	KG 1 pcs
P5521226	6000	39.04

L(mm)	$\sigma=167 \text{ N/mm}^2$		$\sigma=167 \text{ N/mm}^2$		$\delta=1/200L$	$\delta=1/360L$	F(kN)
	Fmax(kN)	$\delta_{\text{max}}(\text{mm})$	Fmax(kN)	$\delta_{\text{max}}(\text{mm})$	F (kN)	F (kN)	
750	-	-	-	-	-	-	34.257
1000	-	-	-	-	-	-	33.766
1250	-	-	-	-	-	-	32.971
1500	7.873	2.46	15.745	3.07	-	-	31.667
1750	6.749	3.34	13.499	4.18	-	-	29.822
2000	5.906	4.38	11.811	5.47	-	-	27.674
2250	5.248	5.54	10.497	6.92	-	9.476	25.457
2500	4.724	6.83	9.447	8.54	-	7.671	23.299
2750	4.292	8.27	8.584	10.34	-	6.337	21.288
3000	3.934	9.84	7.868	12.30	-	5.327	19.443

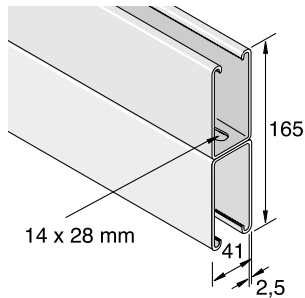
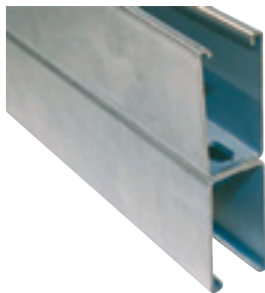


$A = 8.06 \text{ cm}^2$
 $\rho/m = 6.51 \text{ kg/m}$
 $I_{y-y} = 109.74 \text{ cm}^4$
 $Z_{y-y} = 17.70 \text{ cm}^3$
 $r_{y-y} = 3.69 \text{ cm}$
 $I_{z-z} = 26.14 \text{ cm}^4$
 $Z_{z-z} = 12.66 \text{ cm}^3$
 $r_{z-z} = 1.80 \text{ cm}$

Medium & Heavy Duty Framing System

Unistrut double channel P5001T

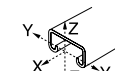
Material : Steel S280 + Z275 - EN 10326 : 2004



P5001T

Art.Nr.	L mm	KG 1 pcs.
P5021226	6000	48.674

L(mm)	$\sigma=132 \text{ N/mm}^2$		$\sigma=132 \text{ N/mm}^2$		$\delta=1/200L$	$\delta=1/360L$	F(kN)
	Fmax(kN)	$\delta_{\text{max}}(\text{mm})$	Fmax(kN)	$\delta_{\text{max}}(\text{mm})$	F (kN)	F (kN)	
750	-	-	-	-	-	-	33.825
1000	-	-	-	-	-	-	33.432
1250	12.267	1.00	24.535	1.25	-	-	32.864
1500	10.222	1.44	20.444	1.80	-	-	32.010
1750	8.760	1.96	17.521	2.45	-	-	30.764
2000	7.667	2.56	15.333	3.20	-	-	29.165
2250	6.813	3.24	13.626	4.05	-	-	27.350
2500	6.131	4.00	12.263	5.00	-	-	25.467
2750	5.577	4.84	11.154	6.05	-	-	23.613
3000	5.111	5.77	10.222	7.21	-	-	21.847

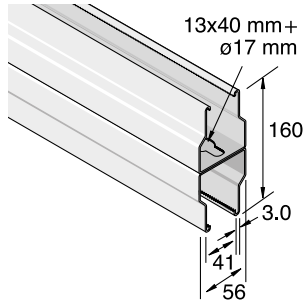
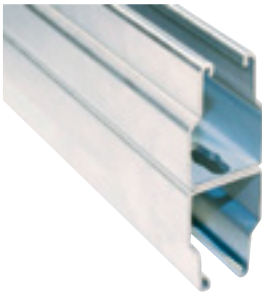


$A = 10.12 \text{ cm}^2$
 $\rho/m = 8.11 \text{ kg/m}$
 $I_{y-y} = 243.16 \text{ cm}^4$
 $Z_{y-y} = 29.44 \text{ cm}^3$
 $r_{y-y} = 4.90 \text{ cm}$
 $I_{z-z} = 33.90 \text{ cm}^4$
 $Z_{z-z} = 16.42 \text{ cm}^3$
 $r_{z-z} = 1.83 \text{ cm}$




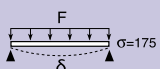
Unistrut double channel P8001T

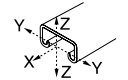
Material : Steel S280 + Z275 - EN 10326 : 2004



P8001T

Art.Nr.	L mm		KG 1 pcs.
P8022526	6000	15	63.3

 L(mm)	 $\sigma = 175 \text{ N/mm}^2$ $\delta = 1/200L$ $\delta = 1/200L$			
	Fmax(kN)	δ_{max} (mm)	F (kN)	F (kN)
750				
1000	41.000	0.99	-	-
1250	32.856	1.55	-	-
1500	27.330	2.23	-	-
1750	23.380	3.04	-	-
2000	20.410	3.97	-	-
2250	18.090	5.03	-	-
2500	16.238	6.21	-	-
2750	14.713	7.51	-	-
3000	13.44	8.94	-	12.510



$A = 12.71 \text{ cm}^2$
 $G/m = 10.55 \text{ kg/m}$
 $I_{y-y} = 257.3 \text{ cm}^4$
 $Z_{y-y} = 32.2 \text{ cm}^3$
 $r_{y-y} = 4.50 \text{ cm}$
 $I_{z-z} = 55.54 \text{ cm}^4$
 $Z_{z-z} = 19.84 \text{ cm}^3$
 $r_{z-z} = 2.09 \text{ cm}$

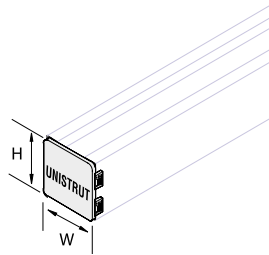
Medium & Heavy Duty Framing System

Endcaps for Unistrut channel

Material : LDPE



Endcap



Art.Nr.	Color	W mm	H mm	KG /100	
1392196	white	41	21	0.3	100
1392197	black	41	21	0.3	100
1392198	blue	41	21	0.3	100
1394196	white	41	41	0.5	100
1394197	black	41	41	0.5	100
1394198	blue	41	41	0.5	100
1396296	white	41	62	0.8	100
1396297	black	41	62	0.8	100
1396298	blue	41	62	0.8	100

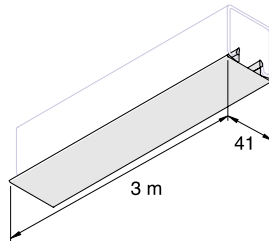
Medium & Heavy Duty Framing System


Cover for Unistrut channel

Material : Steel DD11 - EN 10111
PVC - white
PVC - black



Cover P1184



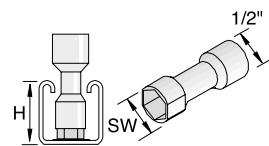
Art.Nr.	Material	KG 1 pcs.	
P1184-F	steel	1.07	1
P1184-PB	pvc black	0.48	1
P1184-PW	pvc white	0.48	1


Channel socket

Material : Steel DD11 - EN 10111



Channel Socket



Art.Nr.	H mm	SW mm	KG /100	
17AF	41	M10	12.5	1
17AF/P3300	21	M10	12.5	1
19AF	41	M12	13.5	1



Zinc Paint



Zinc Paint

Art.Nr.	ML ml	KG /100	
ZINC0500ML	500	110	1

Zinc Spray

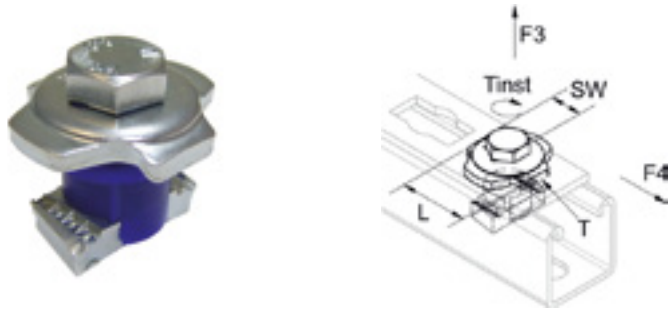


Zinc Spray

Art.Nr.	ML ml	KG /100	
ZINC0400ML	400	55	1

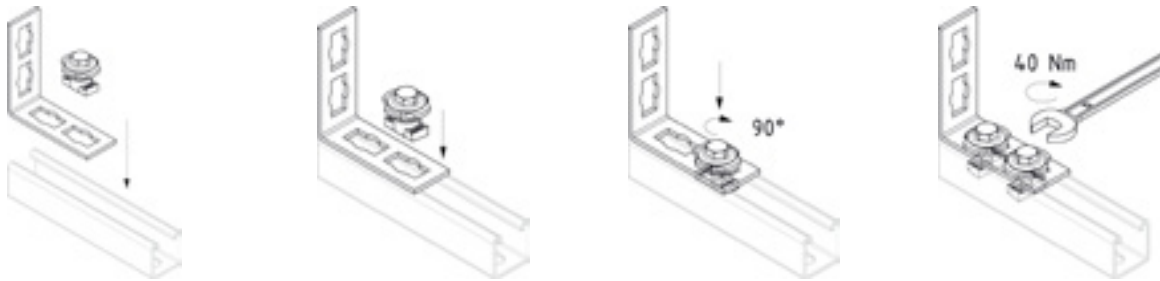
Kwikstrut Uni lock channel nut - QFNH

Material : Bolt DIN 933-8.8; Nut Steel S235JR - EN 10025; Washer Steel DD11 - EN 10111; Plastic part PP
 Finish : Electro zinc plated - EN ISO 12329



QFNH

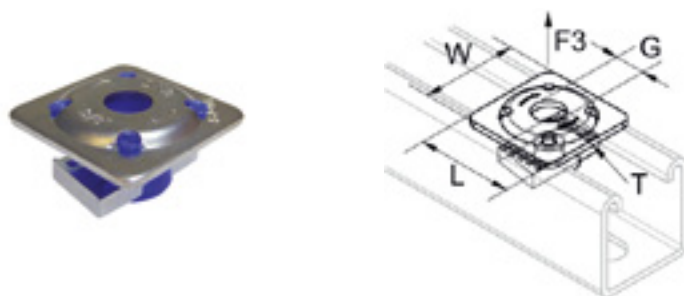
Art.Nr.	G	L mm	T mm	F3 kN	F4 kN	Tinst Nm	SW mm	KG /100	
1391016	M10	40	4	4	3	40	17	8.1	50



Medium & Heavy Duty Framing System

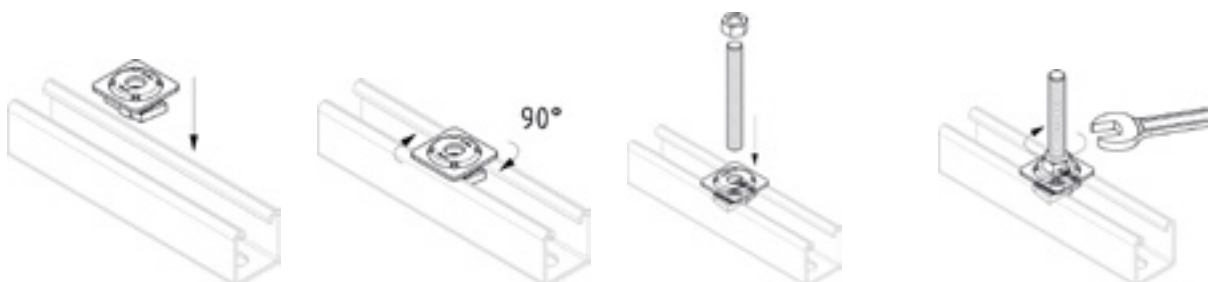
Kwikstrut channel nut with square washer - ORN

Material : Nut S460MC - EN 10149; Washer Steel DX51D-Z275 - EN 10327; Plastic part PP
 Finish : Electro zinc plated - EN ISO 12329



ORN

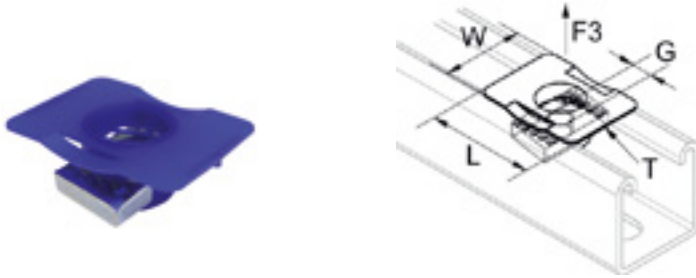
Art.Nr.	G	L mm	W mm	T mm	F3 kN	KG /100	
1390621	M6	40	40	2.5	5	6.4	50
1390821	M8	40	40	2.5	5	6	50
1391021	M10	40	40	2.5	5	5.9	50
1391221	M12	40	40	2.5	5	5.9	50






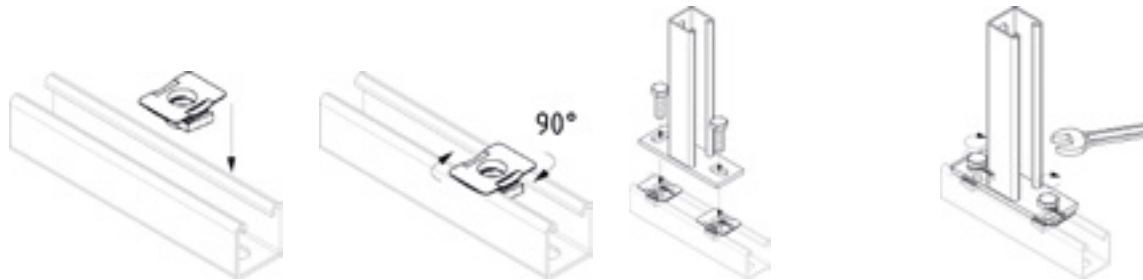
Kwikstrut channel nut with plastic locater - QCN

Material : Nut S460MC - EN 10149; ; Plastic part PP
Finish : Electro zinc plated - EN ISO 12329



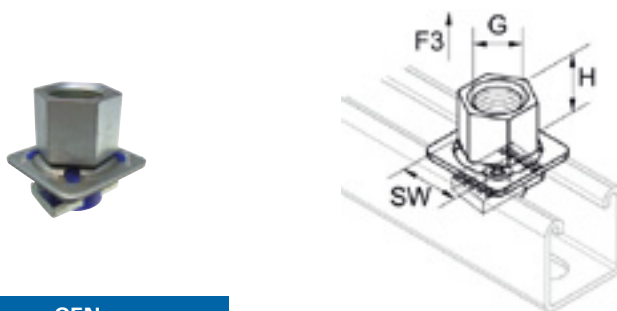
QCN

Art.Nr.	G	L mm	W mm	T mm	F3 kN	KG /100	
1390631	M6	45	34	0.8	5	3.0	50
1390831	M8	45	34	0.8	5	2.9	50
1391031	M10	45	34	0.8	5	2.8	50
1391231	M12	45	34	0.8	5	2.6	50



Kwikstrut channel nut M16 or 1/2" - QEN

Material : Nut S460MC - EN 10149; Washer Steel DX51D-Z275 - EN 10327; Plastic part PP
Finish : Electro zinc plated - EN ISO 12329

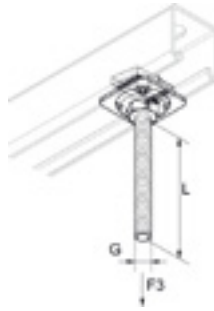


QEN


Art.Nr.	G	H mm	F3 kN	SW mm	KG /100	
1391621	M16	26	5	22	9.5	50
1392226	1/2	26	5	27	11.5	50

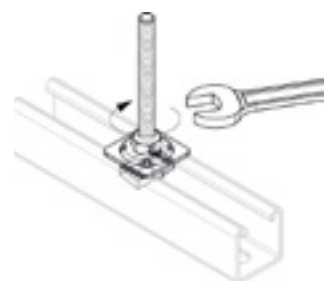
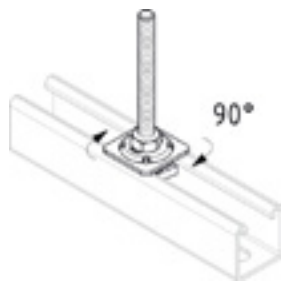
Kwikstrut stud nuts - QTB

Material : Nut S460MC - EN 10149; Washer Steel DX51D-Z275 - EN 10327; Plastic part PP
 Finish : Electro zinc plated - EN ISO 12329



QTB

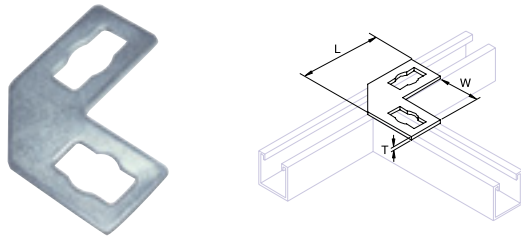
Art.Nr.	G	L mm	F3 kN	KG /100	
1390251	M8	25	5	7.4	100
1390501	M8	50	5	8.2	100
1391001	M8	100	5	9.7	100
1390253	M10	25	5	8.6	100
1390503	M10	50	5	9.8	100
1391003	M10	100	5	12.2	100
1390505	M12	50	5	11.4	100





Kwikstrut flat angle fitting 90° - QFA

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329

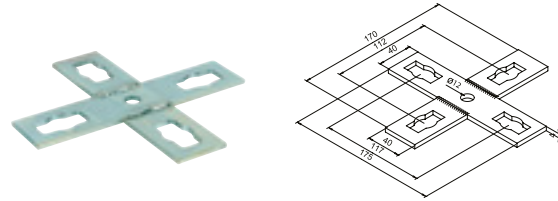


QFA

Art.Nr.	L mm	W mm	T mm	Nut qty	KG /100	
1390125	92	52	4	2	12.5	25

Kwikstrut cross fitting - QFX

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329

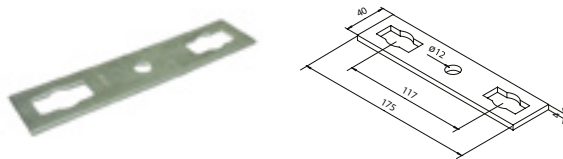


QFX

Art.Nr.	L mm	W mm	T mm	Nut qty	KG /100	
1390145	175	170	4	4	29.5	50

Kwikstrut I-fitting - QFI

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329

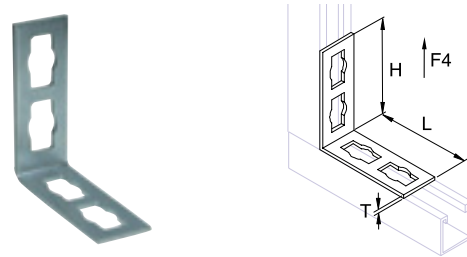


QFI

Art.Nr.	L mm	W mm	T mm	Nut qty	KG /100	
1390147	175	40	4	2	16.7	100

Kwikstrut flat angle fitting 90° - QFFA

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329

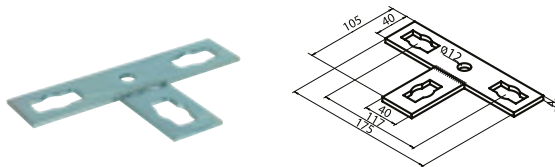


QFFA

Art.Nr.	L mm	H mm	T mm	F4 kN	Nut qty	KG /100	
1399025	65	65	4	3	2	10.7	25
1399035	65	110	4	3	3	14.5	25
1399045	110	110	4	5	4	18.3	25

Kwikstrut T-fitting - QFT

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329

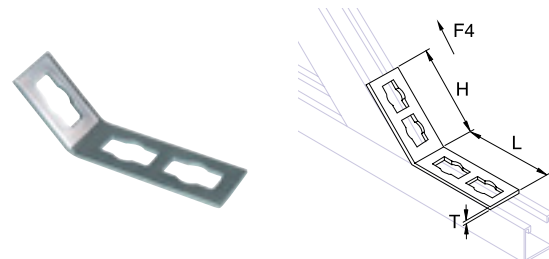


QFT

Art.Nr.	L mm	W mm	T mm	Nut qty	KG /100	
1390146	23.6	25				

Kwikstrut flat angle fitting 135° - QFFA 135

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329

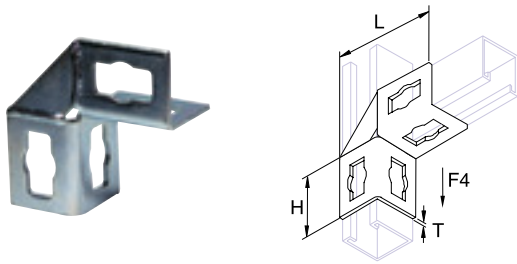


QFFA 135

Art.Nr.	L mm	H mm	T mm	F4 kN	Nut qty	KG /100	
1393535	65	110	4	3	3	14.5	25
1393545	110	110	4	5	4	18.3	25

Kwikstrut angle fitting 90° - QFAZ

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329

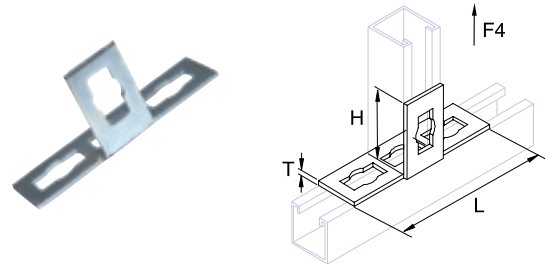


QFAZ

Art.Nr.	L mm	H mm	T mm	F4 kN	Nut qty	KG /100	
1399055	103	58	4	3	2	25.2	10
1399065	150	106	4	5	4	41.7	10

Kwikstrut angle - T fitting - QFFT

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329

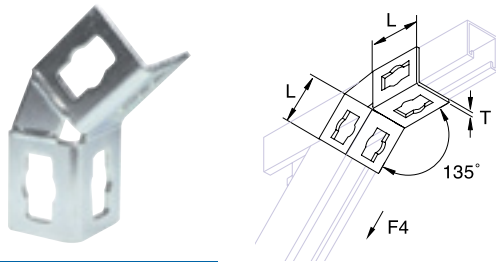


QFFT

Art.Nr.	L mm	H mm	T mm	F4 kN	Nut qty	KG /100	
1390115	150	66	4	3	3	18.9	25

Kwikstrut angle fitting 135° - QFA 135

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329

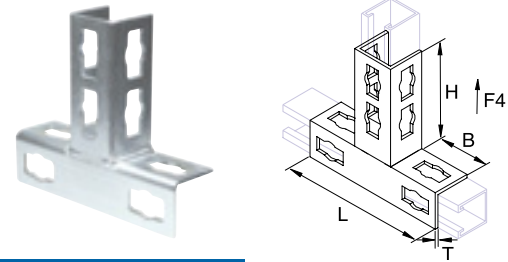


QFA 135

Art.Nr.	L mm	T mm	F4 kN	Nut qty	KG /100	
1393555	56	4	3	2	38.0	10
1393565	103	4	5	4	39.0	10

Kwikstrut cross fitting - QFTT

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329

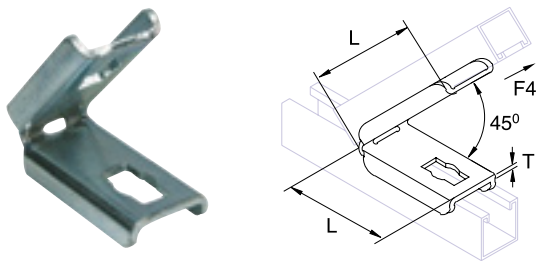


QFTT

Art.Nr.	L mm	H mm	T mm	F4 kN	Nut qty	KG /100	
1394118	175	108	4	5	4	69	25

Kwikstrut angle fitting 45° - QFFA45

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329

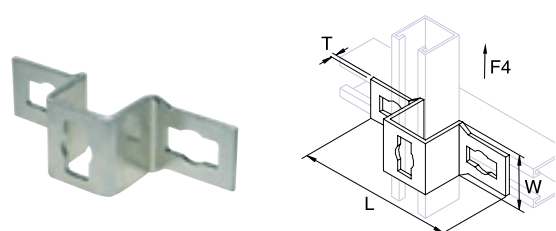


QFFA45

Art.Nr.	L mm	T mm	F4 kN	Nut qty	KG /100	
1394525	104	5	3	2	46.9	25

Kwikstrut U shaped fitting - QFU

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329



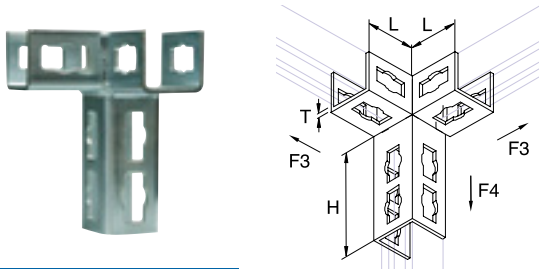
QFU

Art.Nr.	L mm	W mm	T mm	F4 kN	Nut qty	KG /100	
1394138	162	52	4	3	3	27.8	25



Kwikstrut 3 way cross fitting - QFCL-QFCR

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329

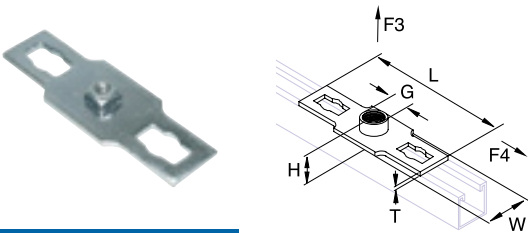


QFCL-QFCR

Art.Nr.	L mm	H mm	T mm	F3 kN	F4 kN	Nut qty	KG /100	
1394111	62	107	4	3	5	4	67.8	10
1394112	62	107	4	3	5	4	67.8	10

Kwikstrut base plate - QFMP

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329

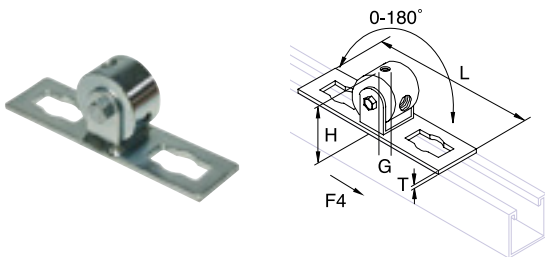


QFMP

Art.Nr.	G	L mm	W mm	H mm	T mm	Nut qty	KG /100	
1390825	M8	176	56	13	5	2	27.4	25
1391025	M10	176	56	13	5	2	26.8	25
1391225	M12	176	56	15	5	2	27.4	25
1391625	M16	176	56	18	5	2	30.6	25
1392225	1/2"	176	56	21	5	2	29.5	25
1392825	3/4"	176	56	23	5	2	29.9	25

Kwikstrut adjustable rod connection fitting - QFFC

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329

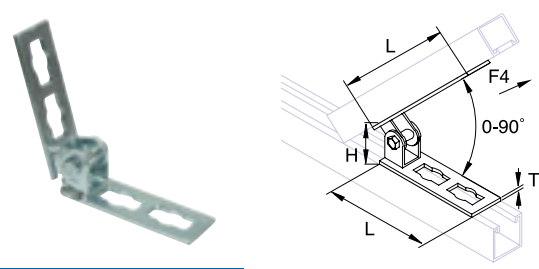


QFFC

Art. Nr.	G	L mm	H mm	T mm	Nut qty	KG /100	
1390135	M8-10-12	150	53	5	2	52.7	10

Kwikstrut adjustable angle fitting - QFFS

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329

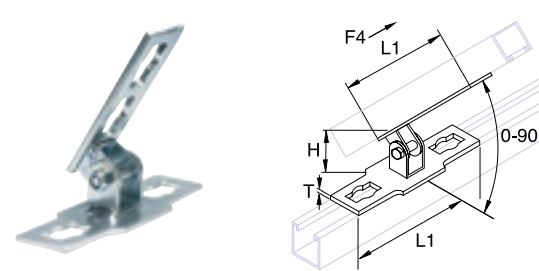


QFFS

Art.Nr.	L mm	H mm	T mm	F4 kN	Nut qty	KG /100	
1390185	122	55	5	5	4	38,0	10

Kwikstrut adjustable angle - T fitting - QFFSS

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329

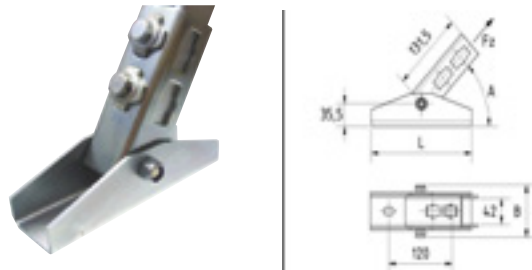


QFFSS

Art.Nr.	L mm	L1 mm	H mm	T mm	F4 kN	Nut qty	KG /100	
1390195	122	176	55	5	5	4	51	10

Kwikstrut hinged foot - QBFS

Material : A: DD11 - EN 10111; Electro zinc plated

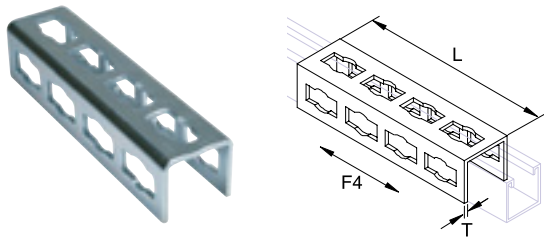


QBFS

TYP	Art.Nr.	L mm	B mm	G/unit	
A	1394171	190	83,5	1301	10

Kwikstrut channel coupler - QFDC

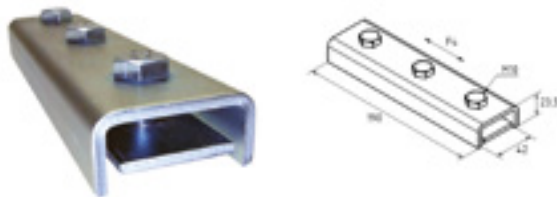
Material : Steel DD11 - EN 10111
 Finish : Electro zinc plated - EN ISO 12329


**QFDC**

Art.Nr.	L mm	T mm	F4 kN	Nut qty	KG /100	
1394148	193	4	5	4	50.5	10

Kwikstrut channel coupler assembly - QFDD

Material : Steel DD11 - EN 10111
 Finish : Electro zinc plated - EN ISO 12329

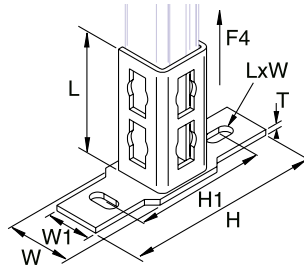
**QFDD**

Art.Nr.	L mm	T mm	F4 kN	Tinst Nm	KG /100	
1391050	190	4	1.7	30	73.5	5



Kwikstrut channel base fitting QBS

Material : Steel DD11 - EN 10111
 Finish : Electro zinc plated - EN ISO 12329

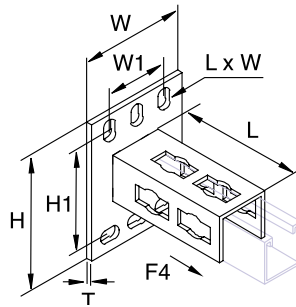


QBS

Art.Nr.	L mm	W mm	W1 mm	H mm	H1 mm	T mm	LxW mm	F4 kN	Nut qty	KG /100	
1394159	108	56	40	175	118	5	13x25	5	2	60.5	10

Kwikstrut channel base fitting QB41

Material : Steel DD11 - EN 10111
 Finish : Electro zinc plated - EN ISO 12329

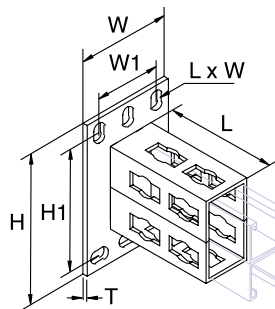
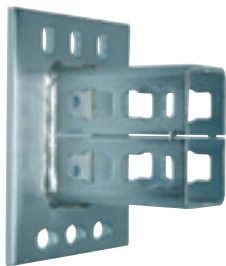


QB41

Art.Nr.	L mm	W mm	W1 mm	H mm	H1 mm	T mm	LxW mm	F4 kN	Nut qty	KG /100	
1394158	108	100	62	130	100	5	13x25	5	2	75.2	10

Kwikstrut channel base fitting QB82

Material : Steel DD11 - EN 10111
 Finish : Electro zinc plated - EN ISO 12329



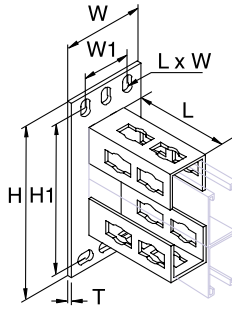
QB82

Art.Nr.	L mm	W mm	W1 mm	H mm	H1 mm	T mm	LxW mm	Nut qty	KG /100	
1394458	108	130	62	170	140	8	13x20	4	191.2	5


Kwikstrut channel base fittings QB124

Material : Steel DD11 - EN 10111

Finish : Electro zinc plated - EN ISO 12329



QB124

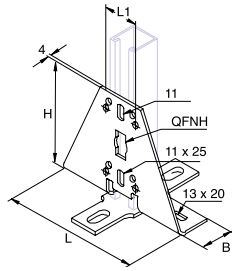
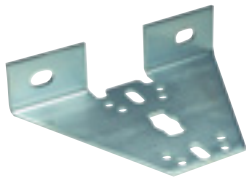
Art.Nr.	L mm	W mm	W1 mm	H mm	H1 mm	T mm	LxW mm	Nut qty	KG /100	
1396658	108	130	62	210	180	8	13x20	4	224.1	5

Medium & Heavy Duty Framing System



Universal brace fitting for Unistrut channels - QB

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329

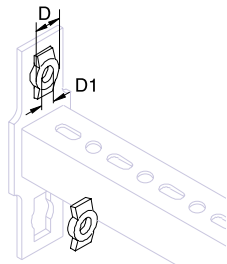


QB

Art.Nr.	L mm	L1 mm	H mm	KG /100	
1391391	197	50	147	72.4	10

Kwikstrut adapter washer - QCA

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329

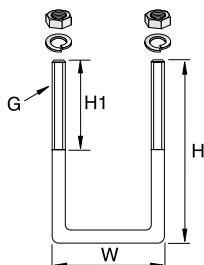


QCA

Art.Nr.	D mm	D1 mm	KG /100	
1390865	27	8.5	2.1	50
1391065	27	10.5	2.0	50
1391265	27	12.5	1.9	50

U bolt for universal brace - QUB

Material : Steel St37K - EN 10277, Classe 4.8
Finish : Electro zinc plated - EN ISO 12329

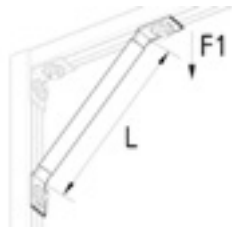


QUB


Art.Nr.	G	W mm	H mm	H1 mm	KG /100	
1392169	M8	57	65	35	6.4	20
1394169	M8	57	85	35	7.6	20
1394269	M8	57	125	35	10.1	20
1396269	M8	57	108	35	9.0	20
1396369	M8	57	167	35	12.8	20

Kwikstrut brace fitting - QBF

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329



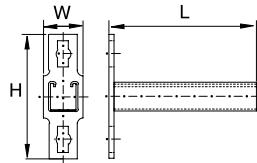
QBF

Art.Nr.	L mm	F1 kN	KG /100	
1393008	300	3	539	10
1394008	400	3	679	10
1395008	500	3	818	10
1396008	600	3	958	10


Medium & Heavy Duty Framing System

Kwikstrut cantilever arm - QLCA

Material : Backplate: Steel DD11 - EN 10111; Channel: Steel S280JR - EN 10025
Finish : Electro zinc plated - EN ISO 12329

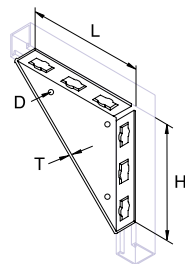


QLCA


Art.Nr.	L mm	W mm	H mm	KG /100	
1394119	200	56	174	75.2	10
1394129	250	56	174	90.6	10
1394139	350	56	174	111.5	10
1394149	450	56	174	139.8	10

Kwikstrut angle bracket - QKON

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329



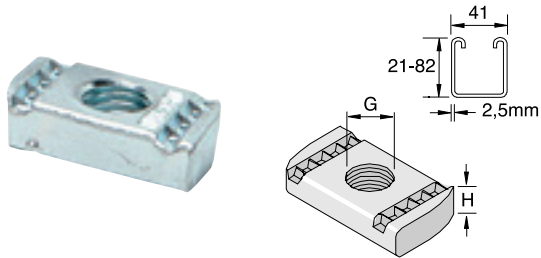
QKON

Art.Nr.	D mm	L mm	H mm	T mm	KG /100	
1390155	12.5	200	200	4	95	10
1390165	12.5	155	210	4	77.8	10



Unistrut channel nuts

Material : Steel SAE 1018/1022
Finish : Electro zinc plated - DIN EN 12329

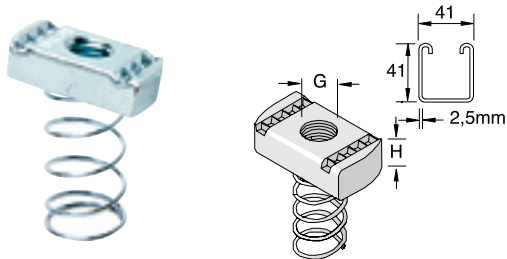


PNP

Art.Nr.	G	H mm	KG /100	
PNP06ZP	M6	6.5	3.1	100
PNP08ZP	M8	8	3.5	100
PNP10ZP	M10	9	4.7	100
PNP12AZP	M12	9	3.6	100
PNP12ZP	M12	12	4.6	100
PNP16ZP	M16	12	8	100

Unistrut channel nuts long spring

Material : Steel SAE 1018/1022
Finish : Electro zinc plated - DIN EN 12329

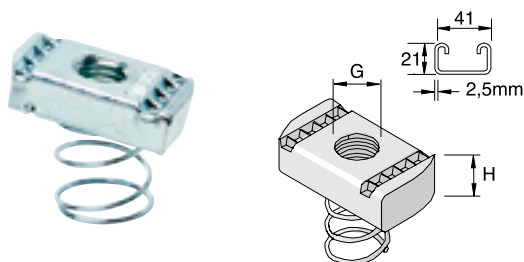


PNL

Art.Nr.	G	H mm	KG /100	
PNL06ZP	M6	6.5	3.3	100
PNL08ZP	M8	8	3.5	100
PNL10ZP	M10	9	4	100
PNL12AZP	M12	9	3.6	100
PNL12ZP	M12	12	4.8	100

Unistrut channel nuts short spring

Material : Steel SAE 1018/1022
Finish : Electro zinc plated - DIN EN 12329



PNS

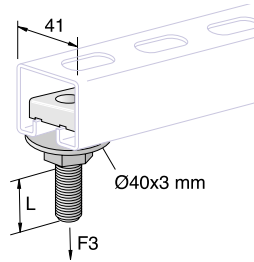
Art.Nr.	G	H mm	KG /100	
PNS06ZP	M6	6.5	3.1	100
PNS08ZP	M8	8	3.5	100
PNS10ZP	M10	9	3.9	100
PNS12AZP	M12	9	3.6	100


Unistrut stud nuts SN

Material : Nut: Steel SAE 1018/1022; Washer: C1008/C1010;
Thread: SAE1008; Nut: class 8
Finish : Electro zinc plated - DIN EN 12229



SN

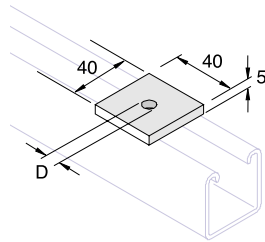
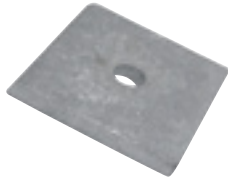


Art.Nr.	G	L mm	KG /100	
M6X30SN	M6	18.5	6.8	50
M8X30SN	M8	15.5	8.1	50
M8X40SN	M8	25.5	8.4	50
M8X50SN	M8	35.5	8.7	50
M8X60SN	M8	45.5	9	50
M8X75SN	M8	60.5	9.5	50
M8X100SN	M8	85.5	10.3	50
M10X30SN	M10	13	9.7	50
M10X40SN	M10	23	10	50
M10X50SN	M10	33	10.7	50
M10X60SN	M10	43	11.2	50
M10X75SN	M10	58	12	50
M10X100SN	M10	83	13.2	50
M12X30SN	M12	11	11.7	50
M12X40SN	M12	21	12.4	50
M12X50SN	M12	31	13.2	50
M12X60SN	M12	41	13.9	50
M12X75SN	M12	56	15	50
M16X63SN	M16	40	12	50



Unistrut flat fittings P1964

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329

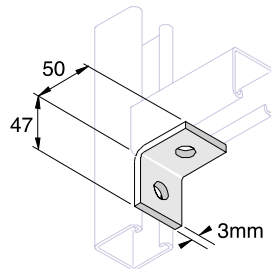


P1964

Art.Nr.	D mm	KG /100	
P1964	17	7.3	50

Unistrut angle fittings 90°

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329

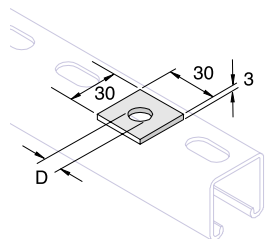
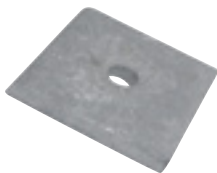


P1026S1


Art.Nr.	KG /100	
P1026-S1	7.1	100

Unistrut flat fittings P1063

Material : Steel DX51D + Z275 - EN 10327

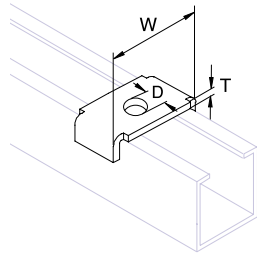



P1063

Art.Nr.	D mm	G	L mm	T mm	KG /100	
P1063/06	8	M6	30	3	1.8	100
P1063/08	10	M8	30	3	1.8	100
P1063/10	12	M10	30	3	1.8	100
P1063/12	14	M12	30	3	1.8	100

U shaped washer for 41 mm width channel

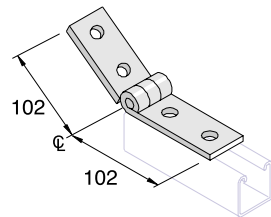
Material : Steel DD11 - EN 10111
 Finish : Electro zinc plated - DIN EN 12329



Art.Nr.	D mm	W mm	T mm	KG /100	
1404110	8.5	49	4	4.1	100
1404120	10.5	49	4	4.0	100
1404130	12.5	49	4	3.9	100

H41**Unistrut special adjustable angle fittings P1354**

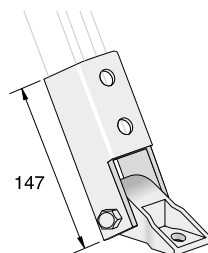
Material : Steel DD11 - EN 10111
 Finish : Electro zinc plated - DIN EN 12329



Art.Nr.	KG /100	
P1354	45.2	20

P1354**Unistrut special adjustable angle fittings P2815S**

Material : U-profile: Steel S280 - EN 10149-3
 Foot: Ductile iron ASTM A536 grade 65-45-12
 Finish : Electro zinc plated - DIN EN 12329



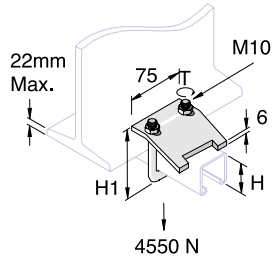
Art.Nr.	KG /100	
P2815S	152.8	10

P2815S



Beamclamp for Unistrut channel P2785-88

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329

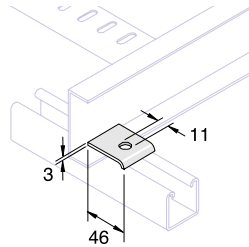
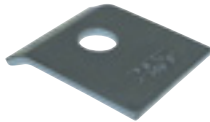


Art.Nr.	H mm	H1 mm	Tinst Nm	KG /100	
P2785	21-41	86	22	36	25
P2786	62-83	127	22	40	20
P2787	124-165	209	22	40	20

P2785-88

Beamclamp for Unistrut channel P1386-S1

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329

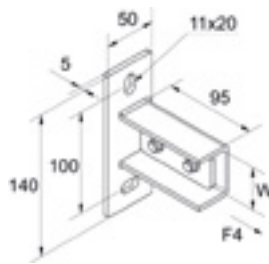


Art.Nr.	KG /100	
P1386-S1	4.2	100

P1386-S1

Unistrut channel foot brackets SF-L

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329

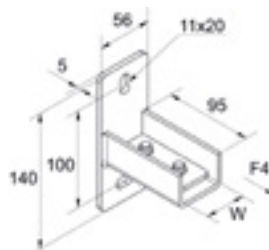


Art.Nr.	W mm	KG /100	
3910074	41	70.9	10

SF-L

Unistrut channel foot brackets SF-S

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329

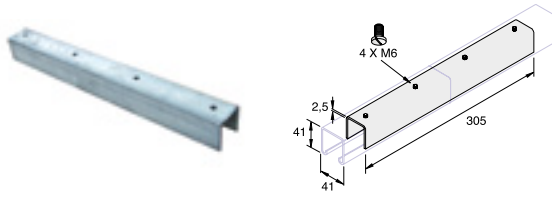


Art.Nr.	W mm	KG /100	
3910073	41	84.1	10

SF-S

Unistrut internal channel couplers P1218

Material : Steel S280 + Z275 - EN 10326:2004
Finish : Electro zinc plated - DIN EN 12329

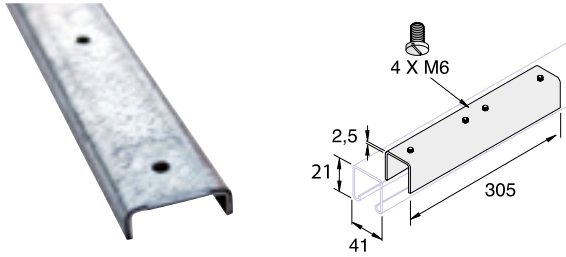


Art.Nr.	KG /100	
P1218	53.9	15

P1218

Unistrut internal channel couplers P1219

Material : Steel S280 + Z275 - EN 10326:2004
Finish : Electro zinc plated - DIN EN 12329



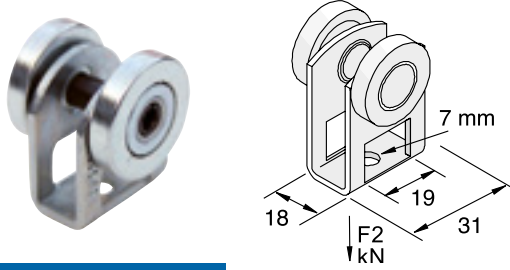
Art.Nr.	KG /100	
P1219	19	20

P1219




Unistrut channel trolleys assembly P2749

Material : Steel S280 - EN 10149-3
Finish : Electro zinc plated - DIN EN 12329

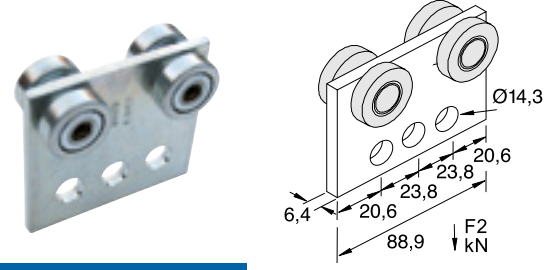


P2749

Art.Nr.	F2 kN	Suitable for:	KG /100	
P2749	0.23	p1000	9.5	25

Unistrut channel trolleys assembly P2950

Material : Steel S280 - EN 10149-3
Finish : Electro zinc plated - DIN EN 12329

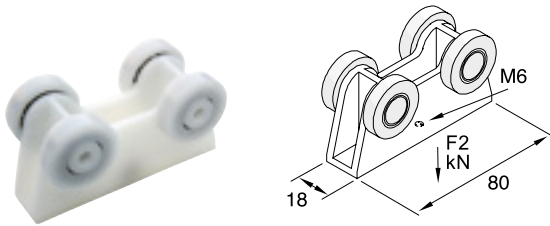


P2950

Art.Nr.	F2 kN	Suitable for:	KG /100	
P2950	1.3	p1000	49.9	10

Unistrut channel trolleys assembly P2750/1

Material : Nylon

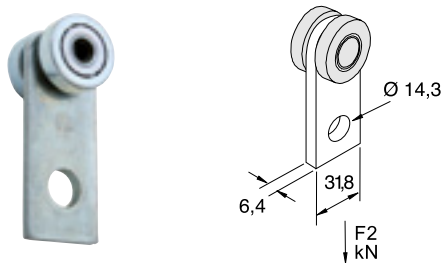


P2750/1

Art.Nr.	F2 kN	Suitable for:	KG /100	
P2750/1	0.4	p1000	6.8	25

Unistrut channel trolleys assembly P2949

Material : Steel S280 - EN 10149-3
Finish : Electro zinc plated - DIN EN 12329

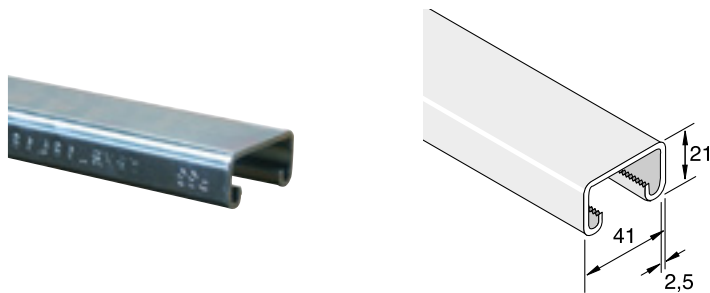


P2949

Art.Nr.	F2 kN	Suitable for:	KG /100	
P2949	0.7	p1000	20.8	25


Unistrut single channel P3300

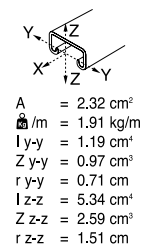
Material : Steel S280JR - EN 10025
 Finish : Hot dip galvanised - EN ISO 1461: 2009



P3300-HDG

Art.Nr.	L mm		KG 1 pcs.
P3311136	6000	50	11.46

L(mm)	$\sigma=175 \text{ N/mm}^2$		$\sigma=175 \text{ N/mm}^2$		$\delta=1/200L$ F (kN)	$\delta=1/360L$ F (kN)	
	Fmax(kN)	δ_{max} (mm)	Fmax(kN)	δ_{max} (mm)			
250	2.712	0.36	5.425	0.45	-	-	10.222
500	1.354	1.45	2.708	1.81	-	2.080	9.761
750	0.903	3.26	1.805	4.07	1.658	0.922	8.427
1000	0.677	5.79	1.354	7.24	0.932	0.520	6.769
1250	0.540	9.06	1.079	11.32	0.598	0.324	5.376
1500	0.451	13.04	0.903	16.30	0.412	0.226	4.287*
1750	0.387	17.75	0.775	22.19	0.304	-	3.463*
2000	0.338	23.19	0.677	28.99	0.226	-	-

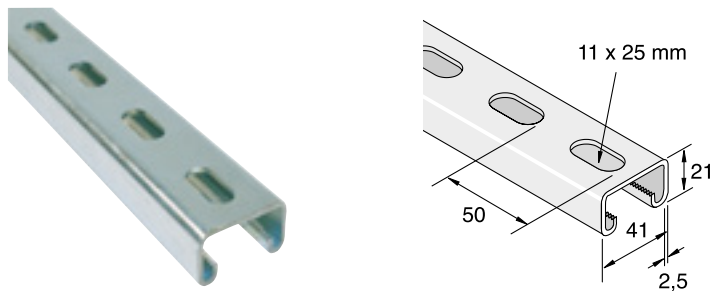


*k.L/r =>180 < 250

Medium & Heavy Duty Framing System


Unistrut single channel P3300T10

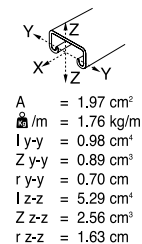
Material : Steel S280JR - EN 10025
 Finish : Hot dip galvanised - EN ISO 1461: 2009



P3300T10-HDG

Art.Nr.	L mm		KG 1 pcs.
P3311333	3000	50	5.28
P3311336	6000	50	10.56

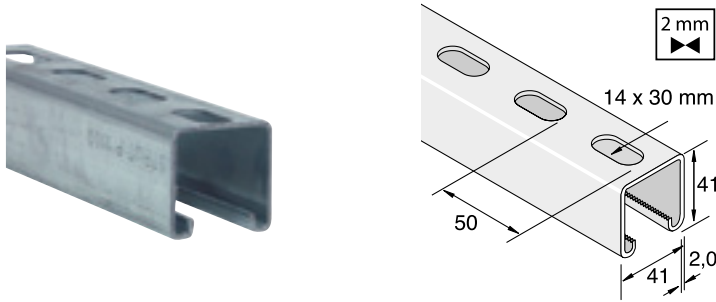
L(mm)	$\sigma=175 \text{ N/mm}^2$		$\sigma=175 \text{ N/mm}^2$		$\delta=1/200L$ F (kN)	$\delta=1/360L$ F (kN)	
	Fmax(kN)	δ_{max} (mm)	Fmax(kN)	δ_{max} (mm)			
250	2.492	0.40	4.983	0.50	-	-	-
500	1.246	1.61	2.492	2.01	-	1.707	-
750	0.829	3.63	1.658	4.54	1.364	0.755	-
1000	0.623	6.46	1.246	8.07	0.765	0.422	-
1250	0.495	10.09	0.991	12.61	0.491	0.265	-
1500	0.412	14.54	0.824	18.17	0.334	-	-
1750	0.353	19.78	0.706	24.73	0.245	-	-
2000	0.309	25.84	0.618	32.30	-	-	-



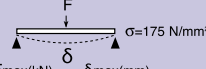
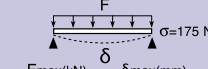


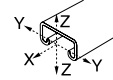
Unistrut single channel P1100TH

Material : Steel S280JR - EN 10025
 Finish : Hot dip galvanised - EN ISO 1461: 2009



P1100T-HDG			
Art.Nr.	L mm		KG 1 pcs.
P1111236	6000	50	12.56

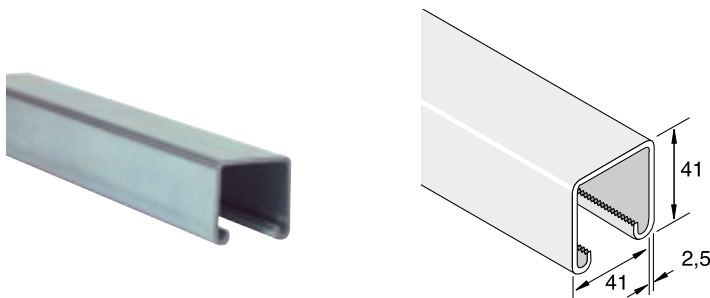
L(mm)					$\delta = 1/200L$ F (kN)	$\delta = 1/360L$ F (kN)
	Fmax(kN)	$\delta_{max}(mm)$	Fmax(kN)	$\delta_{max}(mm)$		
250	6.605	0.19	13.210	0.24	-	-
500	3.302	0.77	6.604	0.96	-	-
750	2.202	1.73	4.404	2.17	-	-
1000	1.651	3.07	3.302	3.86	-	1.492
1250	1.321	4.80	2.642	6.10	-	0.955
1500	1.101	6.92	2.202	8.80	-	0.663
1750	0.944	9.41	1.888	12.00	0.877	0.487
2000	0.826	12.29	1.652	15.73	0.672	0.373
2250	0.734	15.56	1.468	20.00	0.531	0.295
2500	0.660	19.21	1.320	24.90	0.430	0.239



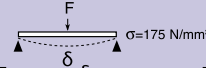
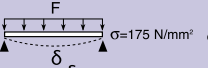

$A = 2.51 \text{ cm}^2$
 $\lambda/m = 2.18 \text{ kg/m}$
 $I_{y-y} = 5.33 \text{ cm}^4$
 $Z_{y-y} = 2.58 \text{ cm}^3$
 $r_{y-y} = 1.42 \text{ cm}$
 $I_{z-z} = 9.17 \text{ cm}^4$
 $Z_{z-z} = 4.44 \text{ cm}^3$
 $r_{z-z} = 1.74 \text{ cm}$

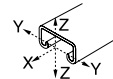
Unistrut single channel P1000

Material : Steel S280JR - EN 10025
 Finish : Hot dip galvanised - EN ISO 1461: 2009



P1000-HDG			
Art.Nr.	L mm		KG 1 pcs.
P1011136	6000	50	17.30

L(mm)					$\delta = 1/200L$ F (kN)	$\delta = 1/360L$ F (kN)	
	Fmax(kN)	$\delta_{max}(mm)$	Fmax(kN)	$\delta_{max}(mm)$			
250	8.677	0.18	17.354	0.23	-	-	16.608
500	4.336	0.76	8.672	0.95	-	-	16.187
750	2.889	1.72	5.778	2.15	-	5.602	15.245
1000	2.168	3.06	4.336	3.82	-	3.149	13.685
1250	1.731	4.78	3.463	5.97	-	2.011	12.086
1500	1.442	6.88	2.884	8.60	2.521	1.393	10.722
1750	1.236	9.36	2.472	11.70	1.844	1.020	9.575
2000	1.084	12.23	2.168	15.29	1.413	0.785	8.623
2250	0.961	15.48	1.923	19.35	1.118	0.618	7.819
2500	0.863	19.11	1.727	23.89	0.903	0.500	7.112

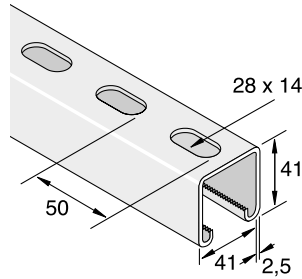


$A = 3.35 \text{ cm}^2$
 $\lambda/m = 2.88 \text{ kg/m}$
 $I_{y-y} = 7.21 \text{ cm}^4$
 $Z_{y-y} = 3.10 \text{ cm}^3$
 $r_{y-y} = 1.46 \text{ cm}$
 $I_{z-z} = 9.23 \text{ cm}^4$
 $Z_{z-z} = 4.47 \text{ cm}^3$
 $r_{z-z} = 1.66 \text{ cm}$

*k.L/r => 180 < 250

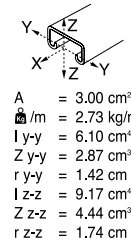
Unistrut single channel P1000T

Material : Steel S280JR - EN 10025
Finish : Hot dip galvanised - EN ISO 1461: 2009



Art.Nr.	L mm	KG 1 pcs.
P1011236	6000	16.40

L(mm)	$\sigma=175 \text{ N/mm}^2$		$\sigma=175 \text{ N/mm}^2$		$\delta=1/200L$ F (kN)	$\delta=1/360L$ F (kN)	F(kN)
	Fmax(kN)	δ_{max} (mm)	Fmax(kN)	δ_{max} (mm)			
250	8.034	0.22	16.069	0.27	-	-	16.283
500	4.017	0.84	8.034	1.05	-	-	16.039
750	2.678	1.88	5.356	2.35	-	4.738	15.274
1000	2.006	3.34	4.012	4.18	-	2.659	13.626
1250	1.604	5.23	3.208	6.54	3.071	1.707	11.880
1500	1.339	7.53	2.678	9.41	2.129	1.177	10.418
1750	1.148	10.25	2.296	12.81	1.560	0.863	9.231
2000	1.001	13.38	2.001	16.73	1.197	0.657	8.270
2250	0.893	16.94	1.785	21.18	0.942	0.520	7.465
2500	0.800	20.92	1.599	26.15	0.765	0.422	6.779



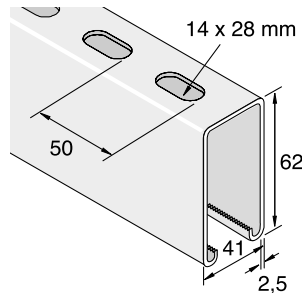
A = 3.00 cm²
 $\lambda/m = 2.73 \text{ kg/m}$
 I y-y = 6.10 cm⁴
 Z y-y = 2.87 cm⁴
 r y-y = 1.42 cm
 I z-z = 9.17 cm⁴
 Z z-z = 4.44 cm⁴
 r z-z = 1.74 cm

*k.L/r =>180 < 250

Medium & Heavy Duty Framing System

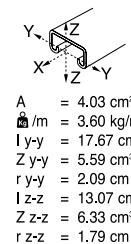
Unistrut single channel P5500T

Material : Steel S280JR - EN 10025
Finish : Hot dip galvanised - EN ISO 1461: 2009



Art.Nr.	L mm	KG 1 pcs.
P5511236	6000	16.62

L(mm)	$\sigma=167 \text{ N/mm}^2$		$\sigma=167 \text{ N/mm}^2$		$\delta=1/200L$ F (kN)	$\delta=1/360L$ F (kN)	F(kN)
	Fmax(kN)	δ_{max} (mm)	Fmax(kN)	δ_{max} (mm)			
250	-	-	-	-	-	-	20.277
500	-	-	-	-	-	-	20.081
750	4.964	1.20	9.928	1.50	-	-	18.443
1000	3.723	2.14	7.446	2.67	-	-	15.245
1250	2.977	3.34	5.955	4.18	-	4.944	12.557
1500	2.482	4.82	4.964	6.02	-	3.434	10.507
1750	2.124	6.55	4.248	8.19	-	2.521	8.966
2000	1.859	8.56	3.718	10.70	3.473	1.923	7.789
2250	1.653	10.84	3.306	13.55	2.747	1.521	6.867
2500	1.486	13.38	2.972	16.73	2.217	1.236	6.141

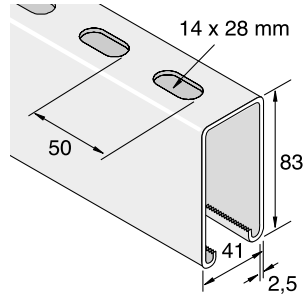


A = 4.03 cm²
 $\lambda/m = 3.60 \text{ kg/m}$
 I y-y = 17.67 cm⁴
 Z y-y = 5.59 cm⁴
 r y-y = 2.09 cm
 I z-z = 13.07 cm⁴
 Z z-z = 6.33 cm⁴
 r z-z = 1.79 cm



Unistrut single channel P5000T

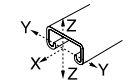
Material : Steel S280JR - EN 10025
 Finish : Hot dip galvanised - EN ISO 1461: 2009



P5000T-HDG

Art.Nr.	L mm		KG 1 pcs.
P5011236	6000	20	26.91

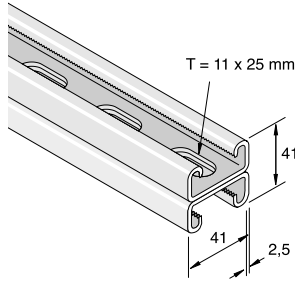
L(mm)	 $\sigma = 132 \text{ N/mm}^2$		 $\sigma = 132 \text{ N/mm}^2$		$\delta = 1/200L$	$\delta = 1/360L$	 F (kN)
	Fmax(kN)	δ_{max} (mm)	Fmax(kN)	δ_{max} (mm)	F (kN)	F (kN)	
250	-	-	-	-	-	-	19.620
500	-	-	-	-	-	-	19.355
750	6.298	0.71	12.596	0.89	-	-	16.422
1000	4.724	1.27	9.447	1.59	-	-	12.822
1250	3.777	1.98	7.554	2.48	-	-	10.124
1500	3.149	2.86	6.298	3.58	-	-	8.182
1750	2.698	3.89	5.396	4.86	-	-	6.769
2000	2.359	5.09	4.719	6.36	-	4.120	5.719
2250	2.099	6.44	4.199	8.05	-	3.257	4.934
2500	1.888	7.94	3.777	9.93	-	2.639	4.326



- A = 5.06 cm²
- $\rho/m = 4.48 \text{ kg/m}$
- I y-y = 37.76 cm⁴
- Z y-y = 9.01 cm³
- r y-y = 2.72 cm
- I z-z = 16.95 cm⁴
- Z z-z = 8.21 cm³
- r z-z = 1.82 cm

Unistrut double channel P3301T10 hot dip galvanised

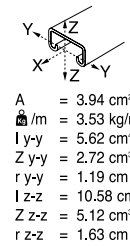
Material : Steel S280JR - EN 10025
 Finish : Hot dip galvanised - EN ISO 1461: 2009



P3301T10-HDG

Art.Nr.	L mm	KG 1 pcs.
P3331336	6000	21.13

L(mm)	$\sigma=175 \text{ N/mm}^2$		$\sigma=175 \text{ N/mm}^2$		$f=1/200L$	$f=1/360L$	F(kN)
	Fmax(kN)	fmax(mm)	Fmax(kN)	fmax(mm)	F (kN)	F (kN)	
250	7.613	0.21	15.225	0.26	-	-	17.266
500	3.806	0.86	7.613	1.07	-	-	17.030
750	2.536	1.94	5.072	2.42	-	4.365	16.599
1000	1.903	3.44	3.806	4.30	-	2.453	15.667
1250	1.521	5.38	3.041	6.72	2.825	1.570	14.156
1500	1.265	7.74	2.531	9.68	1.962	1.089	12.478
1750	1.084	10.54	2.168	13.18	1.442	0.795	10.899
2000	0.952	13.77	1.903	17.21	1.099	0.608	9.496
2250	0.844	17.42	1.687	21.78	0.873	0.481	8.289*
2500	0.760	21.49	1.521	26.86	0.706	0.392	7.250*
2750	0.692	26.03	1.383	32.54	0.579	0.324	6.377*
3000	0.633	30.98	1.265	38.73	0.491	0.265	-

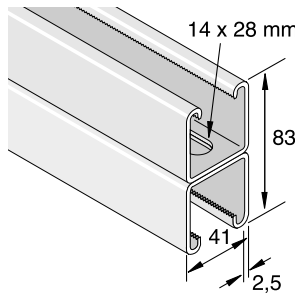
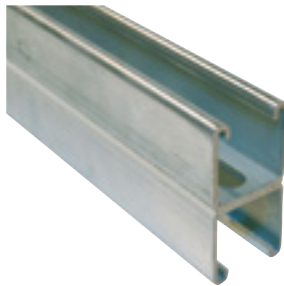


*k.L/r =>180 < 250

Medium & Heavy Duty Framing System

Unistrut double channel P1001T

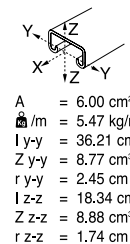
Material : Steel S280JR - EN 10025
 Finish : Hot dip galvanised - EN ISO 1461: 2009



P1001T-HDG

Art.Nr.	L mm	KG 1 pcs.
P1031236	6000	32.80

L(mm)	$\sigma=175 \text{ N/mm}^2$		$\sigma=175 \text{ N/mm}^2$		$\delta=1/200L$	$\delta=1/360L$	F(kN)
	Fmax(kN)	δ_{max} (mm)	Fmax(kN)	δ_{max} (mm)	F (kN)	F (kN)	
750	8.182	0.97	16.363	1.21	-	-	27.027
1000	6.136	1.72	12.272	2.15	-	-	26.585
1250	4.910	2.69	9.820	3.36	-	-	25.830
1500	4.091	3.87	8.182	4.84	-	7.034	24.584
1750	3.057	5.27	7.014	6.59	-	5.170	22.906
2000	3.066	6.89	6.131	8.61	-	3.953	21.042
2250	2.727	8.72	5.454	10.90	-	3.120	19.198
2500	2.453	10.77	4.905	13.46	4.552	2.531	17.452
2750	2.232	13.02	4.464	16.28	3.767	2.090	15.852
3000	2.045	15.50	4.091	19.38	3.159	1.756	14.391*

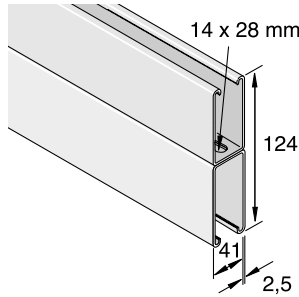
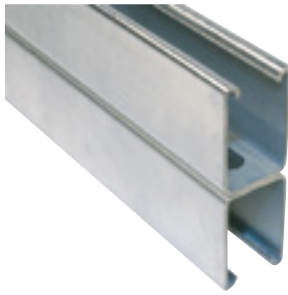


*k.L/r =>180 < 250



Unistrut double channel P5501T

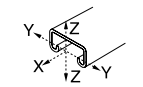
Material : Steel S280JR - EN 10025
 Finish : Hot dip galvanised - EN ISO 1461: 2009



P5501T-HDG

Art.Nr.	L mm	KG 1 pcs.
P5521236	6000	42.23

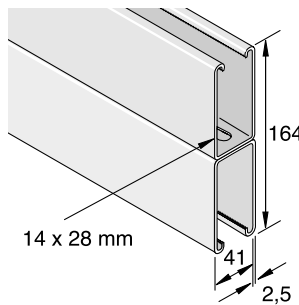
L(mm)	$\sigma=167 \text{ N/mm}^2$		$\sigma=167 \text{ N/mm}^2$		$\delta = 1/200L$ F (kN)	$\delta = 1/360L$ F (kN)	F(kN)
	Fmax(kN)	δ_{max} (mm)	Fmax(kN)	δ_{max} (mm)			
750	-	-	-	-	-	-	34.257
1000	-	-	-	-	-	-	33.766
1250	-	-	-	-	-	-	32.971
1500	7.873	2.46	15.745	3.07	-	-	31.667
1750	6.749	3.34	13.499	4.18	-	-	29.822
2000	5.906	4.38	11.811	5.47	-	-	27.674
2250	5.248	5.54	10.497	6.92	-	9.476	25.457
2500	4.724	6.83	9.447	8.54	-	7.671	23.299
2750	4.292	8.27	8.584	10.34	-	6.337	21.288
3000	3.934	9.84	7.868	12.30	-	5.327	19.443



A = 8.06 cm²
 $\lambda/m = 7.04 \text{ kg/m}$
 I y-y = 109.74 cm⁴
 Z y-y = 17.70 cm³
 r y-y = 3.69 cm
 I z-z = 26.14 cm⁴
 Z z-z = 12.66 cm³
 r z-z = 1.80 cm

Unistrut double channel P5001T

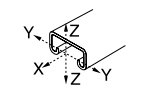
Material : Steel S280JR - EN 10025
 Finish : Hot dip galvanised - EN ISO 1461: 2009



P5001T-HDG

Art.Nr.	L mm	KG 1 pcs.
P5021236	6000	53.81

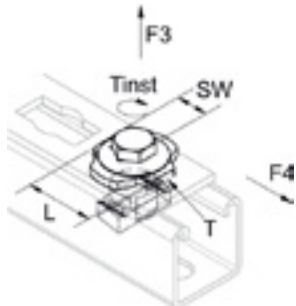
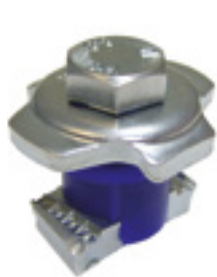
L(mm)	$\sigma=132 \text{ N/mm}^2$		$\sigma=132 \text{ N/mm}^2$		$\delta = 1/200L$ F (kN)	$\delta = 1/360L$ F (kN)	F(kN)
	Fmax(kN)	δ_{max} (mm)	Fmax(kN)	δ_{max} (mm)			
750	-	-	-	-	-	-	33.825
1000	-	-	-	-	-	-	33.432
1250	12.267	1.00	24.535	1.25	-	-	32.864
1500	10.222	1.44	20.444	1.80	-	-	32.010
1750	8.760	1.96	17.521	2.45	-	-	30.764
2000	7.667	2.56	15.333	3.20	-	-	29.165
2250	6.813	3.24	13.626	4.05	-	-	27.350
2500	6.131	4.00	12.263	5.00	-	-	25.467
2750	5.577	4.84	11.154	6.05	-	-	23.613
3000	5.111	5.77	10.222	7.21	-	-	21.847



A = 10.12 cm²
 $\lambda/m = 8.97 \text{ kg/m}$
 I y-y = 243.16 cm⁴
 Z y-y = 29.44 cm³
 r y-y = 4.90 cm
 I z-z = 33.90 cm⁴
 Z z-z = 16.42 cm³
 r z-z = 1.83 cm

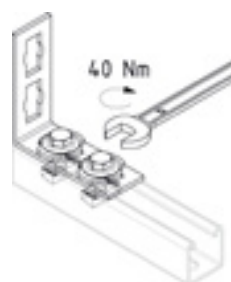
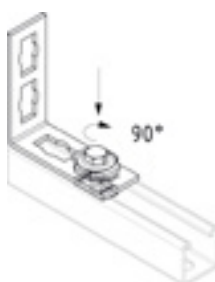
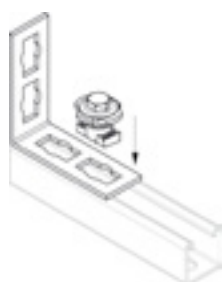
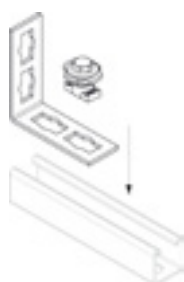
Kwikstrut Uni lock channel nut - QFNH-HDG

Material : Bolt DIN 933-8.8; Nut Steel S235JR - EN 10025; Washer Steel DD11 - EN 10111; Plastic part PP
 Finish : Delta Tone - Corrosion resistance - EN ISO 9227



QFNH-HDG

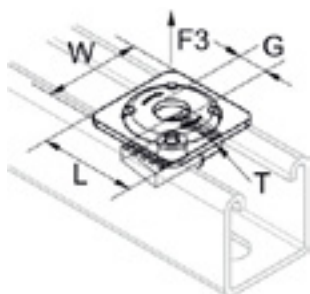
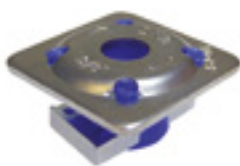
Art.Nr.	G	L mm	T mm	F3 kN	F4 kN	Tinst Nm	SW mm	KG /100	
1391019	M10	40	4	4	3	40	17	8.0	50




Medium & Heavy Duty Framing System

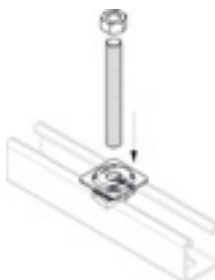
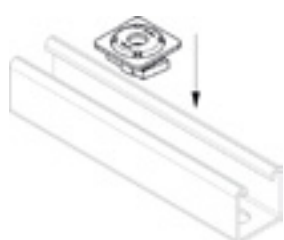
Kwikstrut channel nut with square washer - QRN-HDG

Material : Nut S460MC - EN 10149; Washer Steel DD11 - EN 10111; Plastic part PP
 Finish : Delta Tone - Corrosion resistance - EN ISO 9227



QRN-HDG

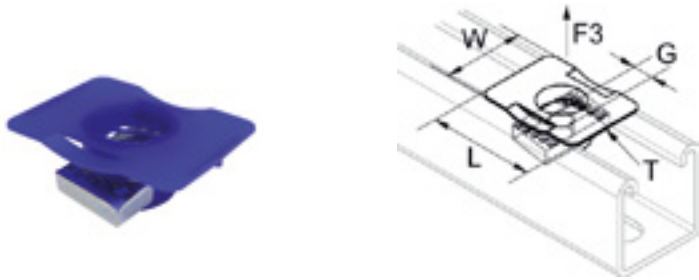
Art.Nr.	G	L mm	W mm	T mm	F3 kN	KG /100	
1390824	M8	40	40	2.5	5	6.0	50
1391024	M10	40	40	2.5	5	5.8	50
1391224	M12	40	40	2.5	5	5.5	50






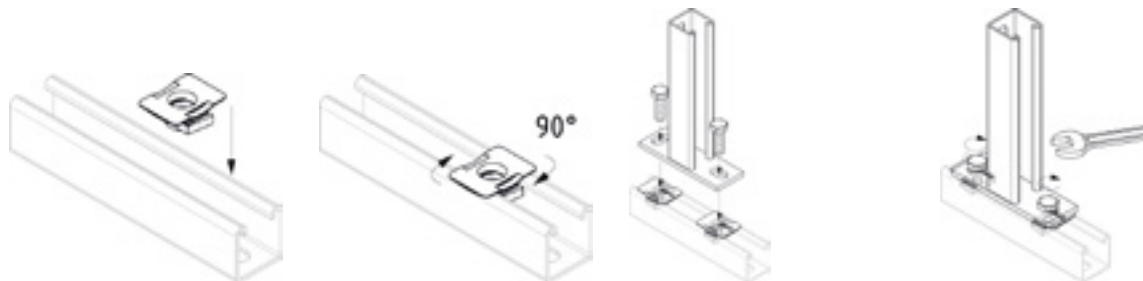
Kwikstrut channel nut with plastic washer - QCN-HDG

Material : Nut S460MC - EN 10149; Plastic part PP
Finish : Delta Tone - Corrosion resistance - EN ISO 9227



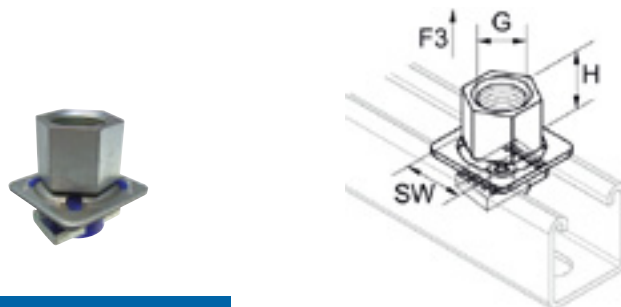
QCN-HDG

Art.Nr.	G	L mm	W mm	T mm	F3 kN	KG /100	
1390833	M8	45	34	0.8	5	3.3	50
1391033	M10	45	34	0.8	5	3.0	50
1391233	M12	45	34	0.8	5	2.8	50



Kwikstrut channel nut M16 or 1/2" - QEN-HDG

Material : Nut S460MC - EN 10149; Washer Steel DD11 - EN 10111; Plastic part PP
Finish : Delta Tone - Corrosion resistance - EN ISO 9227



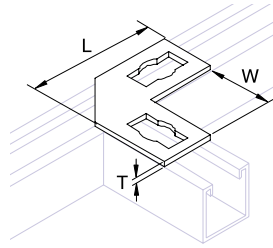
QEN-HDG


Art.Nr.	G	H mm	F3 kN	SW mm	KG /100	
1391623	M16	26	5	22	9.5	50

Kwikstrut flat angle fitting 90° - QFA-HDG

Material : Steel DD11 - EN 10111

Finish : Delta Tone - Corrosion resistance - EN ISO 9227



Art.Nr.	L mm	W mm	T mm	Nut qty	KG /100	
1390124	92	52	4	2	12.5	25

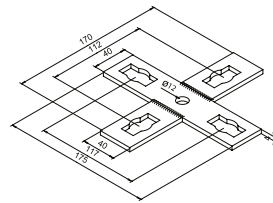
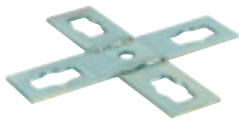
QFA-HDG


Medium & Heavy Duty Framing System

Kwikstrut cross fitting - QFX-HDG

Material : Steel DD11 - EN 10111

Finish : Delta Tone - Corrosion resistance - EN ISO 9227

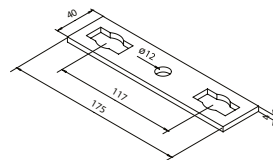



Art.Nr.	L mm	W mm	T mm	Nut qty	KG /100	
1390148	175	170	4	4	29.5	50

QFX-HDG**Kwikstrut I-fitting - QFI-HDG**

Material : Steel DD11 - EN 10111

Finish : Delta Tone - Corrosion resistance - EN ISO 9227



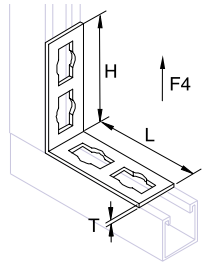
Art.Nr.	L mm	W mm	T mm	Nut qty	KG /100	
1390150	175	40	4	2	16.7	100


QFI-HDG



Kwikstrut flat angle fitting 90° - QFFA-HDG

Material : Steel DD11 - EN 10111
Finish : Delta Tone - Corrosion resistance - EN ISO 9227

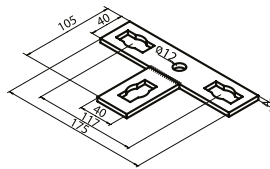



Art.Nr.	L mm	H mm	T mm	F4 kN	Nut qty	KG /100	
1399024	65	65	4	3	2	10.9	25
1399034	65	110	4	3	3	14.6	25
1399044	110	110	4	5	4	18.3	25

QFFA-HDG

Kwikstrut T-fitting - QFT-HDG

Material : Steel DD11 - EN 10111
Finish : Delta Tone - Corrosion resistance - EN ISO 9227

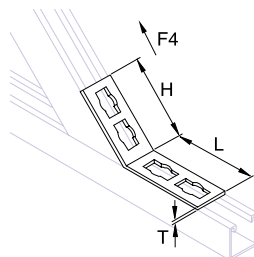



Art.Nr.	L mm	W mm	T mm	Nut qty	KG /100	
1390149	175	105	4	3	23.6	25

QFT-HDG

Kwikstrut flat angle fitting 135° - QFFA 135-HDG

Material : Steel DD11 - EN 10111
Finish : Delta Tone - Corrosion resistance - EN ISO 9227



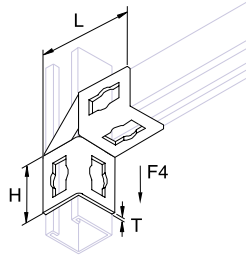
Art.Nr.	L mm	H mm	T mm	F4 kN	Nut qty	KG /100	
1393534	65	110	4		3	14.3	25
1393544	110	110	4		4	18.0	25


QFFA 135-HDG

Kwikstrut angle fitting 90° - QFAZ-HDG

Material : Steel DD11 - EN 10111

Finish : Delta Tone - Corrosion resistance - EN ISO 9227

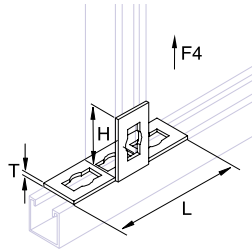
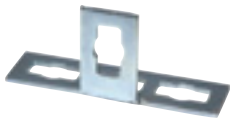


Art.Nr.	L mm	H mm	T mm	F4 kN	Nut qty	KG /100	
1399054	103	58	4	3	2	25.2	10
1399064	150	106	4	5	4	41.7	10

QFAZ-HDG**Kwikstrut angle - T fitting - QFFT-HDG**

Material : Steel DD11 - EN 10111

Finish : Delta Tone - Corrosion resistance - EN ISO 9227

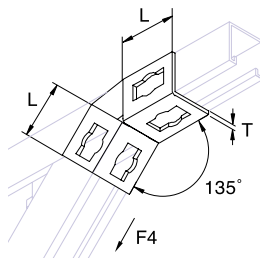



Art.Nr.	L mm	H mm	T mm	F4 kN	Nut qty	KG /100	
1390114	150	66	4	3	3	18.9	10

QFFT-HDG**Kwikstrut angle fitting 135° - QFA 135-HDG**

Material : Steel DD11 - EN 10111

Finish : Delta Tone - Corrosion resistance - EN ISO 9227



Art.Nr.	L mm	T mm	F4 kN	Nut qty	KG /100	
1393554	56	4	3	2	24.4	10
1393564	103	4	5	4	39.0	10

QFA 135-HDG

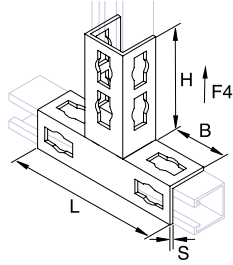



Kwikstrut cross fitting - QFTT-HDG

Material : Steel DD11 - EN 10111
Finish : Delta Tone - Corrosion resistance - EN ISO 9227



QFTT-HDG



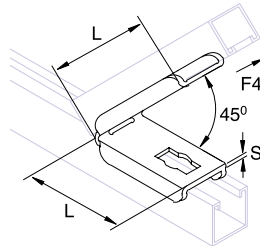
Art.Nr.	L mm	H mm	T mm	F4 kN	Nut qty	KG /100	
1394115	175	108	4	5	4	69.0	25

Kwikstrut angle fitting 45° - QFFA45-HDG

Material : Steel DD11 - EN 10111
Finish : Delta Tone - Corrosion resistance - EN ISO 9227



QFFA45-HDG



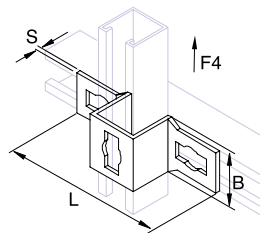
Art.Nr.	L mm	T mm	F4 kN	Nut qty	KG /100	
1394524	104	5	3	2	47.1	25


Kwikstrut U shaped fitting - QFU-HDG

Material : Steel DD11 - EN 10111
Finish : Delta Tone - Corrosion resistance - EN ISO 9227



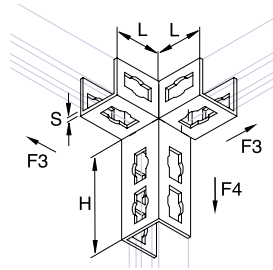
QFU-HDG




Art.Nr.	L mm	W mm	T mm	F4 kN	Nut qty	KG /100	
1394134	162	52	4	3	3	27.8	25

Kwikstrut 3 way cross fitting - QFCL-QFCR-HDG

Material : Steel DD11 - EN 10111
 Finish : Delta Tone - Corrosion resistance - EN ISO 9227

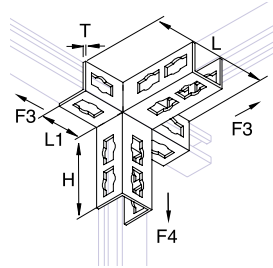
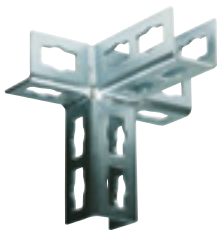



Art.Nr.	L mm	H mm	T mm	F3 kN	F4 kN	Nut qty	KG /100	
1394113	62	107	4	3	5	4	67.8	10
1394114	62	107	4	3	5	4	67.8	10

QFCL-QFCR-HDG

Kwikstrut 4 way cross fitting - QFCL-QFCR

Material : Steel DD11 - EN 10111
 Finish : Delta Tone - Corrosion resistance - EN ISO 9227

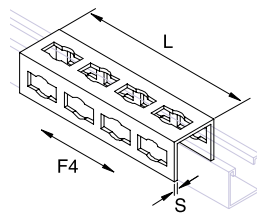


Art.Nr.	L mm	H mm	T mm	F3 kN	F4 kN	Nut qty	KG /100	
1394174	62	107	4	3	5	4	67.8	1

QFCD

Kwikstrut channel coupler - QFDC-HDG

Material : Steel DD11 - EN 10111
 Finish : Delta Tone - Corrosion resistance - EN ISO 9227



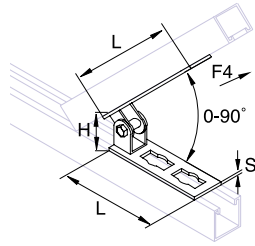
Art.Nr.	L mm	T mm	F4 kN	Nut qty	KG /100	
1394144	193	4	5	4	51.0	10


QFDC-HDG



Kwikstrut adjustable angle fitting - QFFS-HDG

Material : Steel DD11 - EN 10111
 : B: DD11 - EN 10111; Delta Tone 480h SS
 Finish : Delta Tone - Corrosion resistance - EN ISO 9227

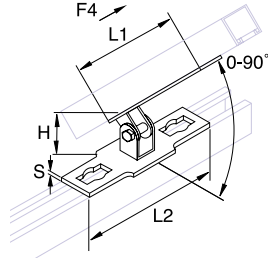


Art.Nr.	L mm	H mm	T mm	F4 kN	Nut qty	KG /100	
1390184	122	55	5	5	4	38.5	10
B	1394148	190	83,5	1301	10		

QFFS-HDG

Kwikstrut adjustable angle - T fitting - QFFSS-HDG

Material : Steel DD11 - EN 10111
 Finish : Delta Tone - Corrosion resistance - EN ISO 9227

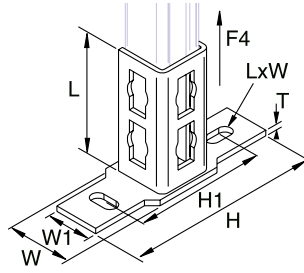


Art.Nr.	L mm	L1 mm	H mm	T mm	F4 kN	Nut qty	KG /100	
1390194	122	176	55	5	5	4	51.0	10

QFFSS-HDG

Kwikstrut channel base fitting QBS-HDG

Material : Steel DD11 - EN 10111
 Finish : Delta Tone - Corrosion resistance - EN ISO 9227

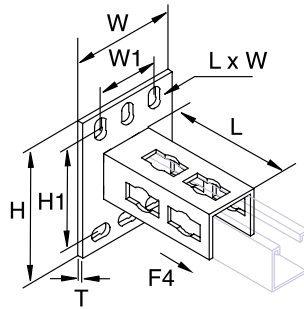


QBS-HDG

Art.Nr.	L mm	W mm	W1 mm	H mm	H1 mm	T mm	LxW mm	F4 kN	Nut qty	KG /100	
1394159	108	56	40	175	118	5	13x25	5	2	60.5	10

Kwikstrut channel base fitting QB41-HDG

Material : Steel DD11 - EN 10111
 Finish : Delta Tone - Corrosion resistance - EN ISO 9227

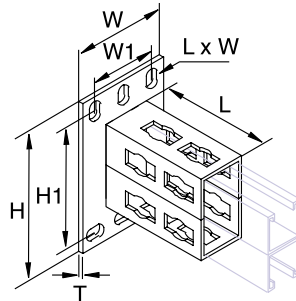


QB41-HDG

Art.Nr.	L mm	W mm	W1 mm	H mm	H1 mm	T mm	LxW mm	F4 kN	Nut qty	KG /100	
1394153	108	100	62	130	100	5	13x20	5	2	76.2	10

Kwikstrut channel base fitting QB82-HDG

Material : Steel DD11 - EN 10111
 Finish : Delta Tone - Corrosion resistance - EN ISO 9227



QB82-HDG

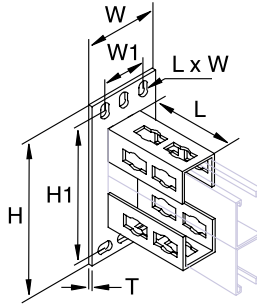
Art.Nr.	L mm	W mm	W1 mm	H mm	H1 mm	T mm	LxW mm	Nut qty	KG /100	
1394454	108	130	62	170	140	8	13x20	4	192.0	5




Kwikstrut channel base fitting QB124-HDG

Material : Steel DD11 - EN 10111

Finish : Delta Tone - Corrosion resistance - EN ISO 9227



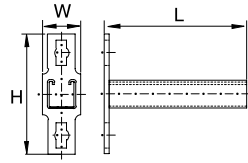
QB124-HDG


Art.Nr.	L mm	W mm	W1 mm	H mm	H1 mm	T mm	LxW mm	Nut qty	KG /100	
1396654	108	130	62	210	180	8	13x20	4	224.6	5

Kwikstrut cantilever arm - QLCA-HDG

Material : Backplate: Steel DD11 - EN 10111; Channel: Steel S280JR - EN 10025

Finish : Delta Tone



Art.Nr.	L mm	W mm	H mm	KG /100	
1394116	200	56	174	75.2	10
1394126	250	56	174	87.3	10
1394136	350	56	174	111.3	10
1394146	450	56	174	136.2	10

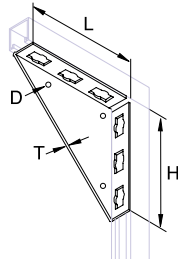
QLCA-HDG


Medium & Heavy Duty Framing System

Kwikstrut angle bracket - QKON-HDG

Material : Steel DD11 - EN 10111

Finish : Delta Tone

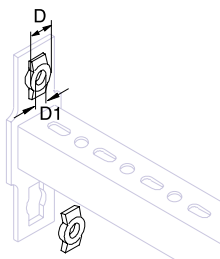



Art.Nr.	H mm	L mm	KG /100	
1390154	200	200	98.1	10
1390164	210	155	77.8	10

QKON-HDG**Kwikstrut adapter washer - QCA-HDG**

Material : Steel DD11 - EN 10111

Finish : Delta Tone



Art.Nr.	D mm	D1 mm	KG /100	
1390864	27	8.5	2.1	50
1391064	27	10.5	2.0	50
1391264	27	12.5	1.9	50

QCA-HDG



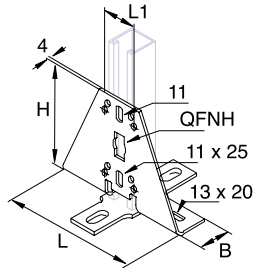
Universal brace fitting - QB-HDG


Material : Steel DD11 - EN 10111

Finish : Delta Tone



QB-HDG



Art.Nr.	L mm	L1 mm	H mm	KG /100	
1391394	197	50	147	70.0	10

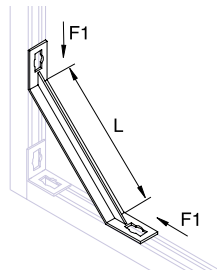
Kwikstrut brace fitting - QBF-HDG


Material : Steel DD11 - EN 10111

Finish : Delta Tone



QBF-HDG



Art.Nr.	L mm	F1 kN	KG /100	
1393004	300	3	78.9	10
1395004	500	3	88.0	10
1396004	600	3	130.0	10

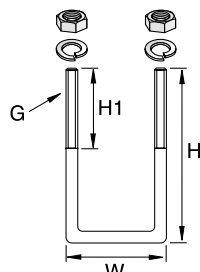
U bolt for universal brace - QUB-HDG


Material : Steel St37K - EN 10277, Classe 4.8

Finish : Delta Tone



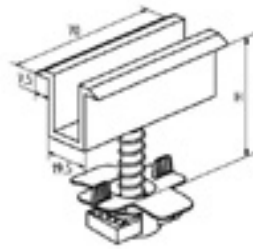
QUB-HDG



Art.Nr.	G	W mm	H mm	H1 mm	KG /100	
1392164	M8	57	65	35	6.4	20
1394264	M8	57	125	35	10.1	20
1396264	M8	57	108	35	9.0	20
1396364	M8	57	167	35	12.8	20

Kwikstrut Solar middle fitting - QCSM

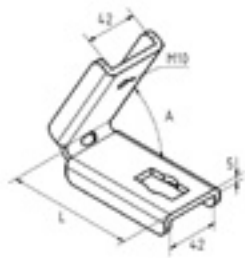
Material : Clamp: Al; Nut: S460MC - EN10149; Screw & Spring: SS A2; Plastic Part: PP
 Finish : Nut: Delta Tone - Corrosion resistance - EN ISO 9227


**QCSM**

Art.Nr.	H mm	KG /100	
1399200	35 - 50	10.0	25

Kwikstrut Solar angle fitting 60° - QFFA60

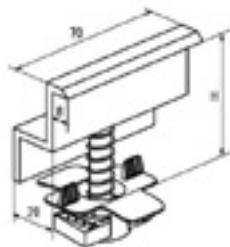
Material : Steel DD11- EN 10111
 Finish : Delta Tone - Corrosion resistance - EN ISO 9227


**QFFA60**

Art.Nr.	L mm	W mm	T mm	Nut qty	KG /100	
1399100	104	52	5	1	53.6	25

Kwikstrut Solar end fitting - QCSE

Material : Clamp: Al; Nut: S460MC - EN10149; Screw & Spring: SS A2; Plastic Part: PP
 Finish : Nut: Delta Tone - Corrosion resistance - EN ISO 9227

**QCSE**

Art.Nr.	H mm	KG /100	
1399300	35	9.2	10
1399400	36	9.3	10
1399500	38	9.4	10
1399600	40	9.5	10
1399700	42	9.6	10
1399800	46	9.8	10
1399900	50	10.0	10




Kwikstrut Solar positioning fitting - QCPS

Material : Steel DD11- EN 10111

Finish : Delta Tone - Corrosion resistance - EN ISO 9227

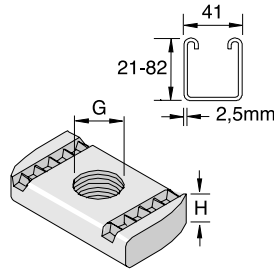


QCPS

Art.Nr.	L mm		KG /100
1399322	322	2	33.0
1399390	390	2	37.0
1399425	425	2	39.1

Unistrut channel nuts

Material : Steel SAE 1018/1022
Finish : Hot dip galvanised - EN ISO 1461: 2009

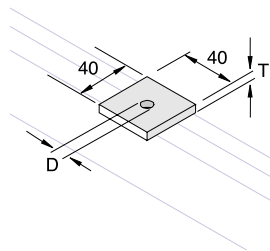
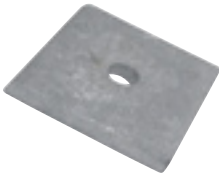


PNP-HDG

Art.Nr.	G	H mm	KG /100	
PNP06HDIN	M6	6.5	3.1	100
PNP08HDIN	M8	8	3.4	100
PNP10HDIN	M10	9	3.8	100
PNP12AHDIN	M12	9	3.4	100
PNP12HDIN	M12	12	4.6	100

Unistrut flat fittings P1019&20-HDG

Material : Steel S315MC - EN 10149-2
Finish : Hot dip galvanised - EN ISO 1461: 2009

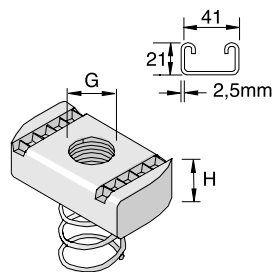


P1019&20-HDG

Art.Nr.	D mm	KG /100	
P1019	9	7.2	100
P1020	13	7	100

Unistrut channel nuts short spring

Material : Steel SAE 1018/1022
Finish : Hot dip galvanised - EN ISO 1461: 2009



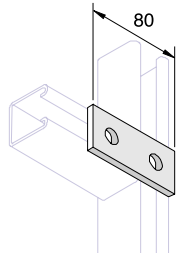
PNS-HDG

Art.Nr.	G	H mm	KG /100	
PNS06HDIN	M6	6.5	3.1	100
PNS08HDIN	M8	8	3.5	100
PNS10HDIN	M10	9	3.9	100
PNS12AHDIN	M12	9	3.4	100



Unistrut flat fittings P1065-HDG

Material : Steel S315MC - EN 10149-2
Finish : Hot dip galvanised - EN ISO 1461: 2009

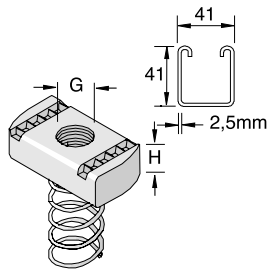


P1065-HDG


Art.Nr.	KG /100	
P1065	1.5	50

Unistrut channel nuts long spring

Material : Steel SAE 1018/1022
Finish : Hot dip galvanised - EN ISO 1461: 2009

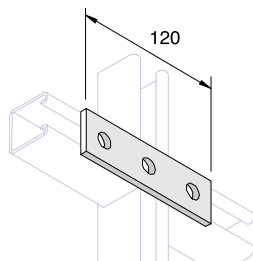


PNL-HDG

Art.Nr.	G	H mm	KG /100	
PNL06HDIN	M6	6.5	3.3	100
PNL08HDIN	M8	8	3.5	100
PNL10HDIN	M10	9	40	100
PNL12AHDIN	M12	9	3.4	100
PNL12HDIN	M12	12	4.8	100

Unistrut flat fittings P1066-HDG

Material : Steel S315MC - EN 10149-2
Finish : Hot dip galvanised - EN ISO 1461: 2009

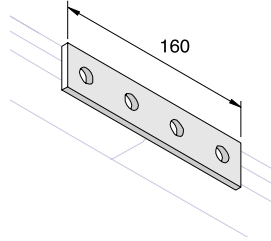


P1066-HDG

Art.Nr.	KG /100	
P1066	24	25

Unistrut flat fittings P1067-HDG

Material : Steel S315MC - EN 10149-2
 Finish : Hot dip galvanised - EN ISO 1461: 2009



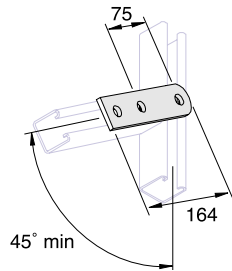
P1067-HDG

Art.Nr.	KG /100	
P1067	31.1	25

Medium & Heavy Duty Framing System

Unistrut flat fittings P2322-HDG

Material : Steel S315MC - EN 10149-2
 Finish : Hot dip galvanised - EN ISO 1461: 2009

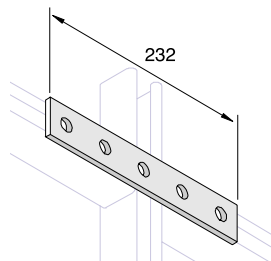


P2322-HDG

Art.Nr.	KG /100	
P2322	30.5	25

Unistrut flat fittings P1941-HDG

Material : Steel S315MC - EN 10149-2
 Finish : Hot dip galvanised - EN ISO 1461: 2009



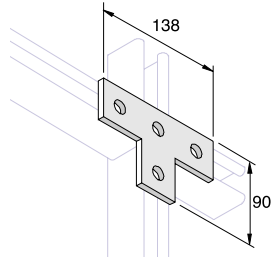
P1941-HDG

Art.Nr.	KG /100	
P1941	40	10



Unistrut flat fittings P1031-HDG

Material : Steel S315MC - EN 10149-2
Finish : Hot dip galvanised - EN ISO 1461: 2009

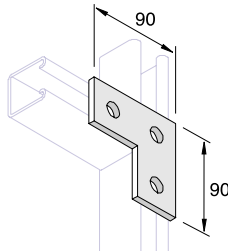


P1031-HDG

Art.Nr.	KG /100	
P1031	30	25

Unistrut Flat Fittings P1036-HDG

Material : Steel S315MC - EN 10149-2
Finish : Hot dip galvanised - EN ISO 1461: 2009

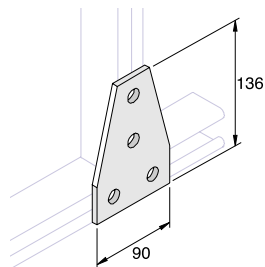


P1036-HDG

Art.Nr.	KG /100	
P1036	25	35

Unistrut flat fittings P1358-HDG

Material : Steel S315MC - EN 10149-2
Finish : Hot dip galvanised - EN ISO 1461: 2009

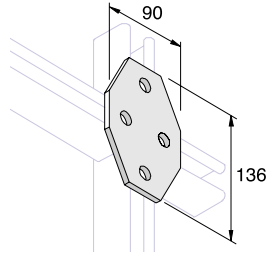


P1358-HDG

Art.Nr.	KG /100	
P1358	45	15

Unistrut flat fitting P1580-HDG

Material : Steel S315MC - EN 10149-2
Finish : Hot dip galvanised - EN ISO 1461: 2009

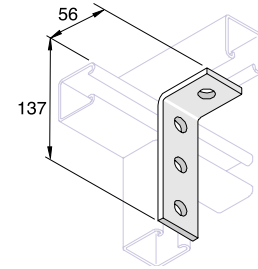


P1580-HDG

Art.Nr.	KG /100	
P1580	47	20

Unistrut angle fittings 90° - P1278-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

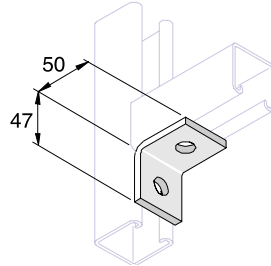


P1278-HDG

Art.Nr.	KG /100	
P1278	31.1	30

Unistrut angle fittings 90° - P1026-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

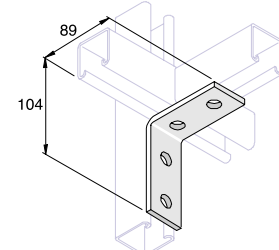


P1026-HDG

Art.Nr.	KG /100	
P1026	15	50

Unistrut angle fittings 90° - P1325-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

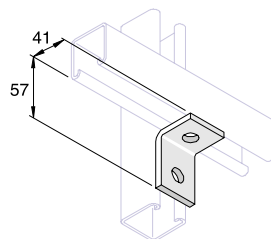


P1325-HDG

Art.Nr.	KG /100	
P1325	31.1	25

Unistrut angle fittings 90° - P1068-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

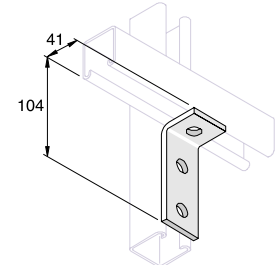


P1068-HDG

Art.Nr.	F1 kN	KG /100	
P1068	3.5	15	50

Unistrut angle fittings 90° - P1326-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009



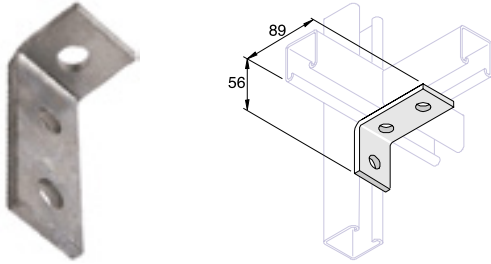
P1326-HDG

Art.Nr.	F1 kN	KG /100	
P1326	3.5	24	35



Unistrut angle fittings 90° - P1346-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

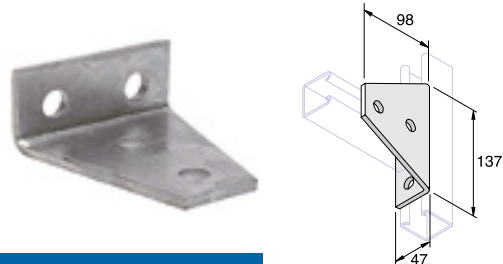


P1346-HDG

Art.Nr.	F1 kN	KG /100	
P1346	9.1	24	35

Unistrut angle fittings 90° - P1727-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

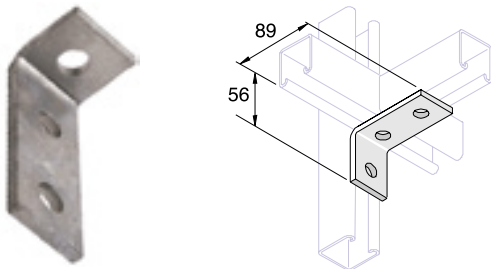


P1727-HDG

Art.Nr.	KG /100	
P1727	65	10

Unistrut angle fittings 90° - P1458-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

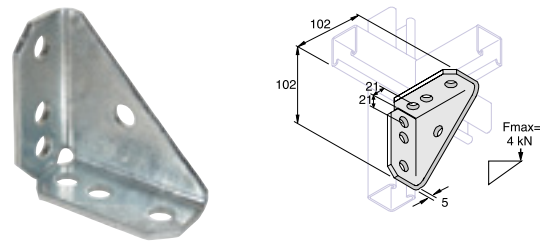


P1458-HDG

Art.Nr.	KG /100	
P1458	24	35

Unistrut angle fittings 90° - P2484-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

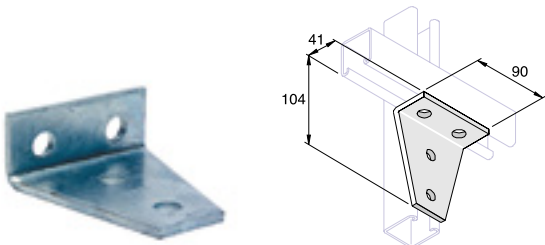


P2484-HDG

Art.Nr.	F1 kN	Tinst Nm	KG /100	
P2484	4	12	46.7	15

Unistrut angle fittings 90° - P1359-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

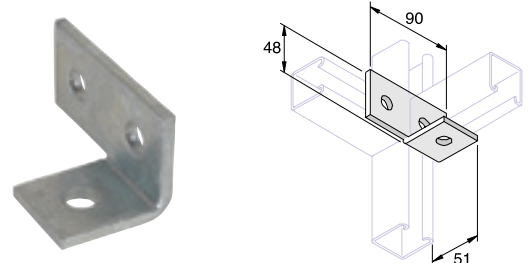


P1359-HDG

Art.Nr.	KG /100	
P1359	45	15

Unistrut angle fittings 90° - P1037-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

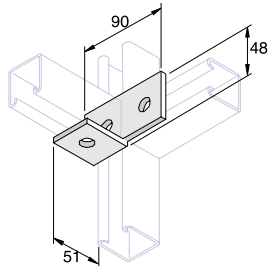


P1037-HDG

Art.Nr.	KG /100	
P1037	25	25

Unistrut angle fittings 90° - P1038-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

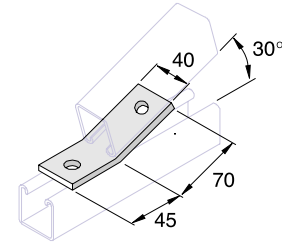


P1038-HDG

Art.Nr.	KG /100	
P1038	25	25

Unistrut special angle fittings P2101-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

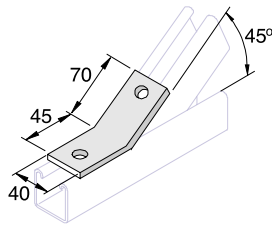


P2101-HDG

Art.Nr.	KG /100	
P2101	24.6	25

Unistrut special angle fittings P1546-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

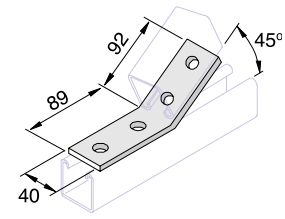


P1546-HDG

Art.Nr.	KG /100	
P1546	25.2	20

Unistrut special angle fittings P1074-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

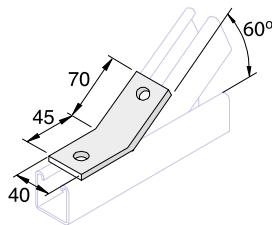


P1074-HDG

Art.Nr.	KG /100	
P1074	31.1	25

Unistrut Special angle fittings P2097-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

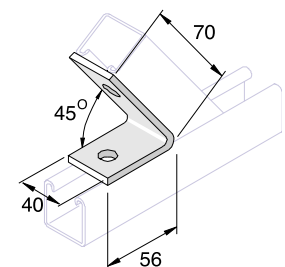


P2097-HDG

Art.Nr.	KG /100	
P2097	24.6	25

Unistrut special angle fittings P1186-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009



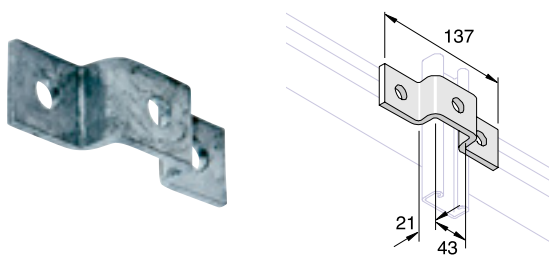
P1186-HDG

Art.Nr.	KG /100	
P1186	24.6	25



Unistrut U & Z fittings P4047-HDG

Material : Steel S315MC - EN 10149-2
Finish : Hot dip galvanised - EN ISO 1461: 2009

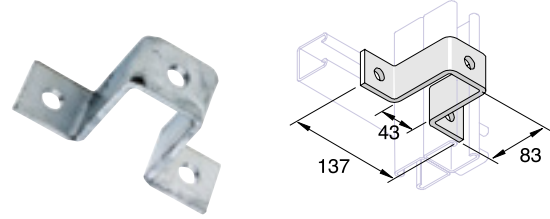


P4047-HDG

Art.Nr.	KG /100	
P4047	29.2	25

Unistrut U & Z fittings P1737-HDG

Material : Steel S315MC - EN 10149-2
Finish : Hot dip galvanised - EN ISO 1461: 2009

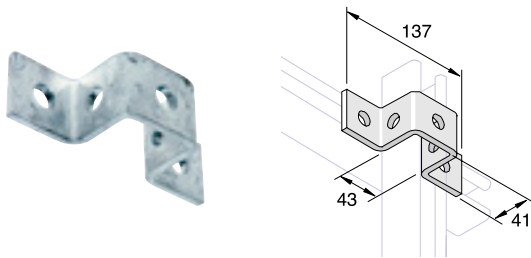


P1737-HDG

Art.Nr.	KG /100	
P1737	54.7	15

Unistrut U & Z fittings P1047-HDG

Material : Steel S315MC - EN 10149-2
Finish : Hot dip galvanised - EN ISO 1461: 2009

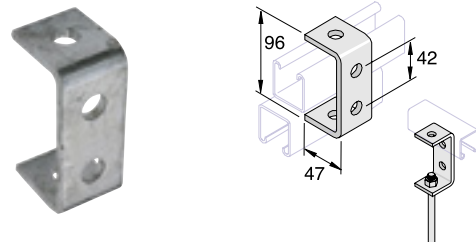


P1047-HDG

Art.Nr.	KG /100	
P1047	34	20

Unistrut U & Z fittings P1044-HDG

Material : Steel S315MC - EN 10149-2
Finish : Hot dip galvanised - EN ISO 1461: 2009

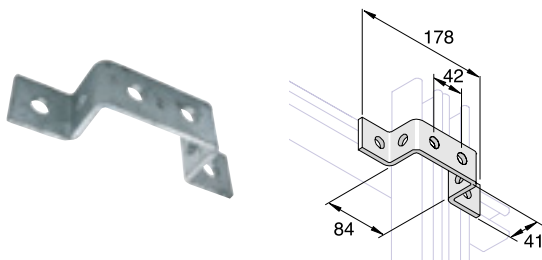


P1044-HDG

Art.Nr.	KG /100	
P1044	32	25

Unistrut U & Z fittings P1043-HDG

Material : Steel S315MC - EN 10149-2
Finish : Hot dip galvanised - EN ISO 1461: 2009

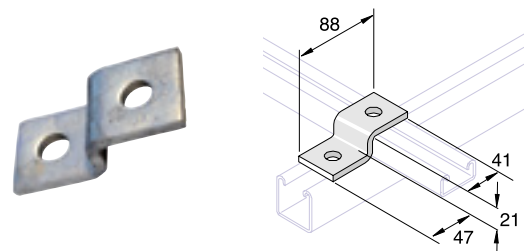


P1043-HDG

Art.Nr.	KG /100	
P1043	43	15

Unistrut U & Z fittings P4045-HDG

Material : Steel S315MC - EN 10149-2
Finish : Hot dip galvanised - EN ISO 1461: 2009

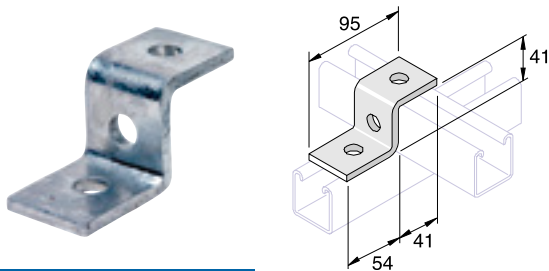


P4045-HDG

Art.Nr.	KG /100	
P4045	18.6	35

Unistrut U & Z fittings P1045-HDG

Material : Steel S315MC - EN 10149-2
Finish : Hot dip galvanised - EN ISO 1461: 2009

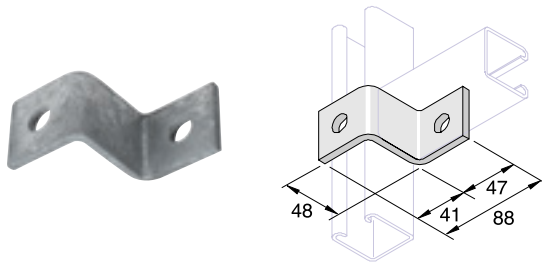


P1045-HDG

Art.Nr.	KG /100	
P1045	21.6	35

Unistrut U & Z fittings P1347-HDG

Material : Steel S315MC - EN 10149-2
Finish : Hot dip galvanised - EN ISO 1461: 2009

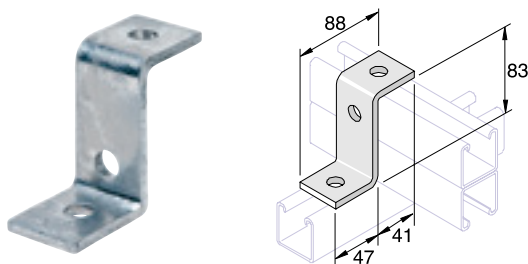


P1347-HDG

Art.Nr.	KG /100	
P1347	23.5	25

Unistrut U & Z fittings P1453-HDG

Material : Steel S315MC - EN 10149-2
Finish : Hot dip galvanised - EN ISO 1461: 2009

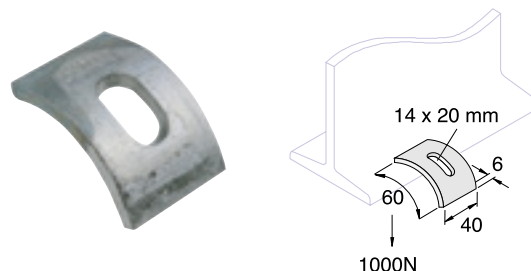


P1453-HDG


Art.Nr.	KG /100	
P1453	31.2	25

Unistrut channel beamclamps C711-HDG

Material : Steel DD11 - EN 10111
Finish : Delta Tone - Corrosion resistance - EN ISO 9227

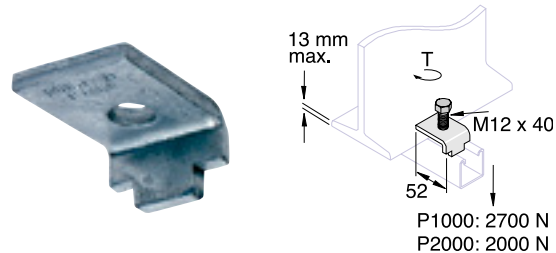


C711-HDG


Art.Nr.	Tinst Nm	KG /100	
C711	30	13.7	50

Unistrut channel beamclamps P1386-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

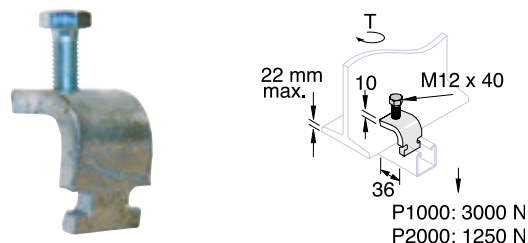


P1386-HDG


Art.Nr.	Tinst Nm	KG /100	
P1386	70	10.1	50

Unistrut channel beamclamps P2489-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009



P2489-HDG

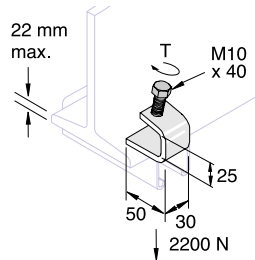
Art.Nr.	Tinst Nm	KG /100	
P2489	12	22	25

Medium & Heavy Duty Framing System



Unistrut channel beamclamps P1272-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

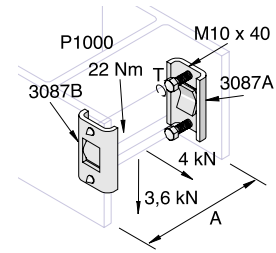


P1272-HDG

Art.Nr.	Tinst Nm	KG /100	
P1272	10	13.7	50

Unistrut channel beamclamps P3087-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

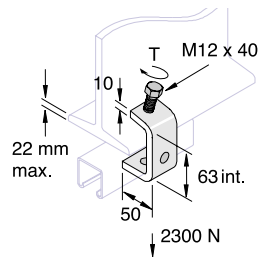


P3087-HDG

Art.Nr.	Tinst Nm	KG /100	
P3087	22	67	10

Unistrut channel beamclamps P1271-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

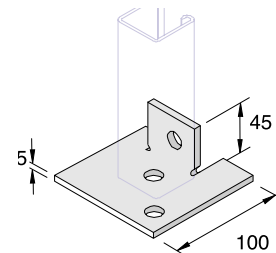


P1271-HDG

Art.Nr.	Tinst Nm	KG /100	
P1271	20	40	25

Unistrut channel base fittings P2072-S2-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

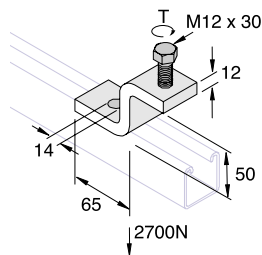


P2072-S2-HDG

Art.Nr.	KG /100	
P2072-S2	39.3	25

Unistrut channel beamclamps P1983-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

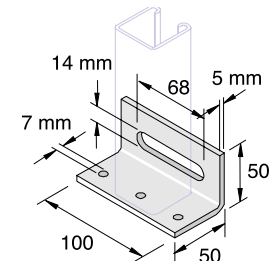


P1983-HDG

Art.Nr.	Tinst Nm	KG /100	
P1983	20	50.8	10

Unistrut channel base fittings P2072-S3-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

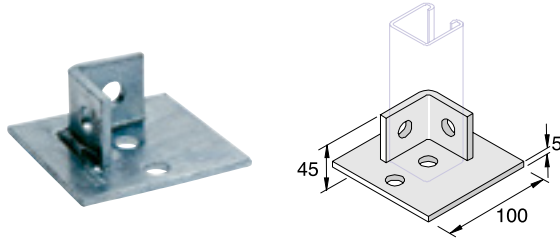


P2072-S3-HDG

Art.Nr.	KG /100	
P2072-S3	31.4	25

Unistrut channel base fittings P2072-S1-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

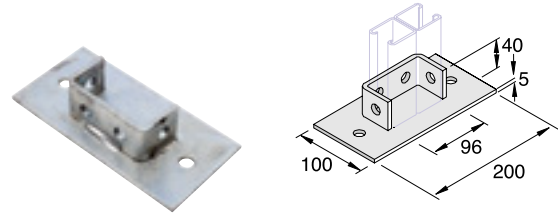


P2072-S1-HDG

Art.Nr.	KG /100	
P2072-S1	57.5	15

Unistrut channel base fittings P2073-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

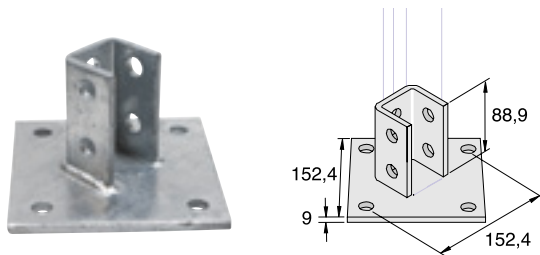


P2073-HDG

Art.Nr.	KG /100	
P2073	109.4	6

Unistrut channel base fittings P2072A-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

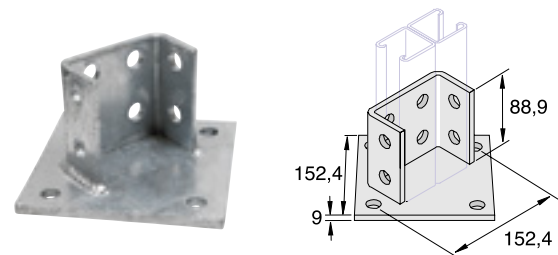


P2072A-HDG

Art.Nr.	KG /100	
P2072A	210	5

Unistrut channel base fittings P2073A-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

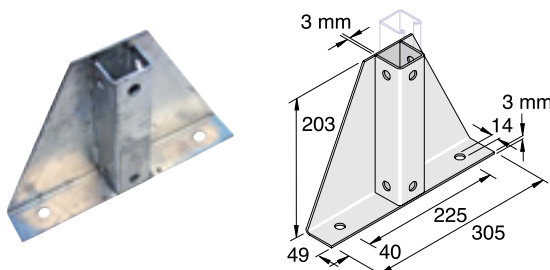


P2073A-HDG

Art.Nr.	KG /100	
P2073A	246	5

Unistrut channel base fittings P2348-S1-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

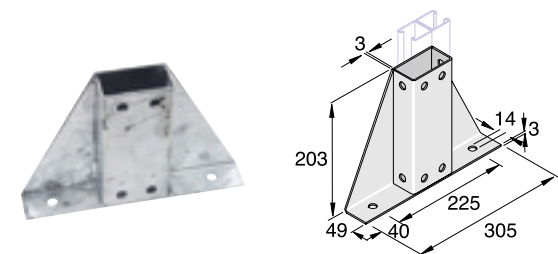


P2348-S1-HDG

Art.Nr.	KG /100	
P2348-S1	220.9	1

Unistrut channel base fittings P2348-S2-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009



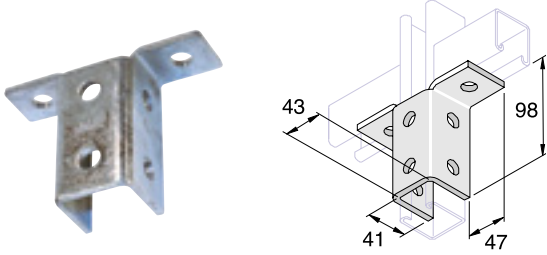
P2348-S2-HDG

Art.Nr.	KG /100	
P2348-S2	243.8	1



Unistrut channel base fittings P2346-HDG

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

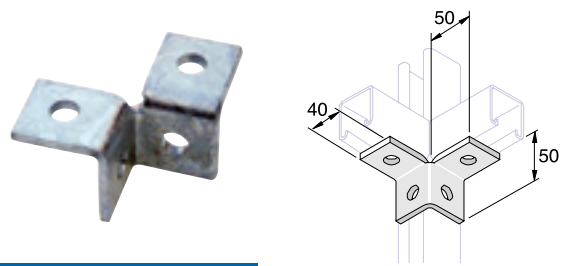


P2346-HDG

Art.Nr.	KG /100	
P2346	66.2	10

Unistrut wing fittings P2223-HDG

Material : Steel S315MC - EN 10149-2
Finish : Hot dip galvanised - EN ISO 1461: 2009

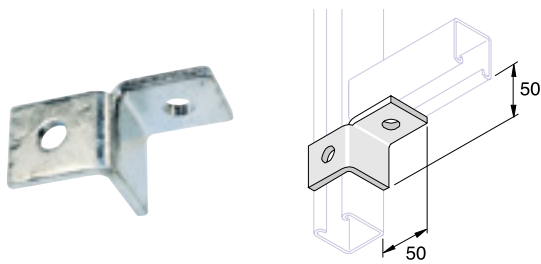


P2223-HDG

Art.Nr.	KG /100	
P2223	31.7	25

Unistrut wing fittings P2341R-HDG

Material : Steel S315MC - EN 10149-2
Finish : Hot dip galvanised - EN ISO 1461: 2009

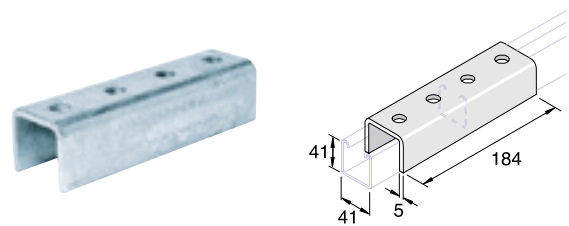


P2341R-HDG

Art.Nr.	KG /100	
P2341R	24	20

Unistrut channel couplers P1377-HDG

Material : Steel S315MC - EN 10149-2
Finish : Hot dip galvanised - EN ISO 1461: 2009

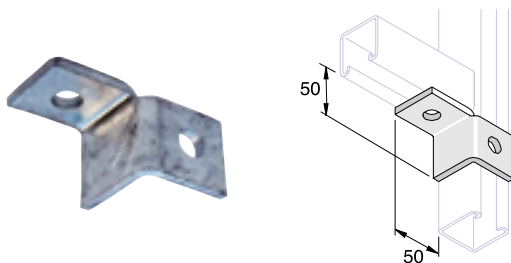


P1377-HDG

Art.Nr.	KG /100	
P1377	93.9	5

Unistrut wing fittings P2341L-HDG

Material : Steel S315MC - EN 10149-2
Finish : Hot dip galvanised - EN ISO 1461: 2009



P2341L-HDG

Art.Nr.	KG /100	
P2341L	24	20

Unistrut channel connector P2074A for P8000T

Material : Steel S315MC - EN 10149-2
Finish : Hot dip galvanised - EN ISO 1461: 2009

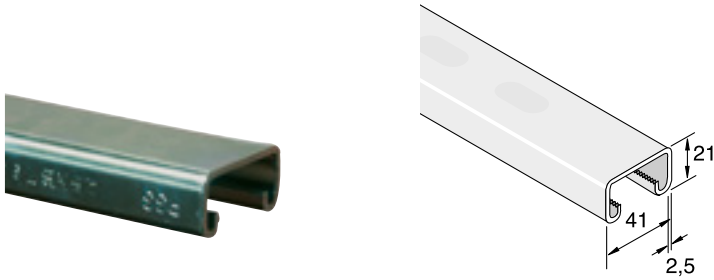


P2074A for P8000T

Art.Nr.	KG /100	
P2074A	93.9	1

Unistrut singel channel P3300

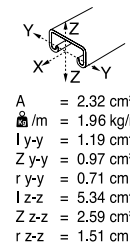
Material : Stainless Steel - 1.4404 (316L;A4) - EN 10088-2



P3300-SS

Art.Nr.	L mm	KG 1 pcs.
P3311146	6000	11.75

L(mm)	$\sigma=175 \text{ N/mm}^2$		$\sigma=175 \text{ N/mm}^2$		$\delta=1/200L$	$\delta=1/360L$	F(kN)
	Fmax(kN)	$\delta_{\text{max}}(\text{mm})$	Fmax(kN)	$\delta_{\text{max}}(\text{mm})$	F (kN)	F (kN)	
250	2.712	0.36	5.425	0.45	-	-	10.222
500	1.354	1.45	2.708	1.81	-	2.080	9.761
750	0.903	3.26	1.805	4.07	1.658	0.922	8.427
1000	0.677	5.79	1.354	7.24	0.932	0.520	6.769
1250	0.540	9.06	1.079	11.32	0.598	0.324	5.376
1500	0.451	13.04	0.903	16.30	0.412	0.226	4.287*
1750	0.387	17.75	0.775	22.19	0.304	-	3.463*
2000	0.338	23.19	0.677	28.99	0.226	-	-

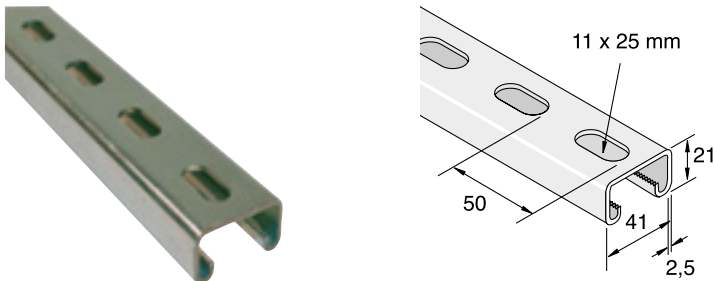


*k.L/r =>180 < 250

Medium & Heavy Duty Framing System

Unistrut single channel P3300T10

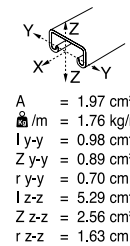
Material : Stainless Steel - 1.4404 - EN 10088-2



P3300T10-SS

Art.Nr.	L mm	KG 1 pcs.
P3311346	6000	10.57

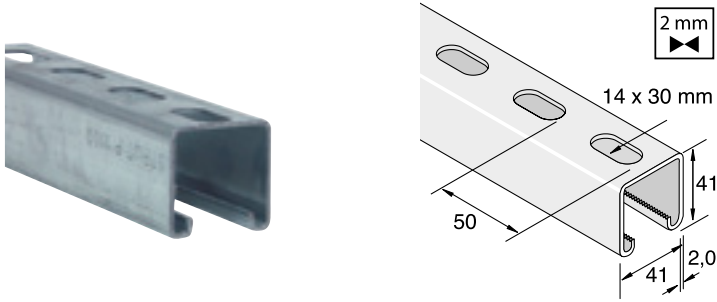
L(mm)	$\sigma=175 \text{ N/mm}^2$		$\sigma=175 \text{ N/mm}^2$		$\delta=1/200L$	$\delta=1/360L$	F(kN)
	Fmax(kN)	$\delta_{\text{max}}(\text{mm})$	Fmax(kN)	$\delta_{\text{max}}(\text{mm})$	F (kN)	F (kN)	
250	2.492	0.40	4.983	0.50	-	-	-
500	1.246	1.61	2.492	2.01	-	1.707	-
750	0.829	3.63	1.658	4.54	1.364	0.755	-
1000	0.623	6.46	1.246	8.07	0.765	0.422	-
1250	0.495	10.09	0.991	12.61	0.491	0.265	-
1500	0.412	14.54	0.824	18.17	0.334	-	-
1750	0.353	19.78	0.706	24.73	0.245	-	-
2000	0.309	25.84	0.618	32.30	-	-	-





Unistrut single channel T1100T

Material : Stainless Steel - 1.4404 - EN 10088-2

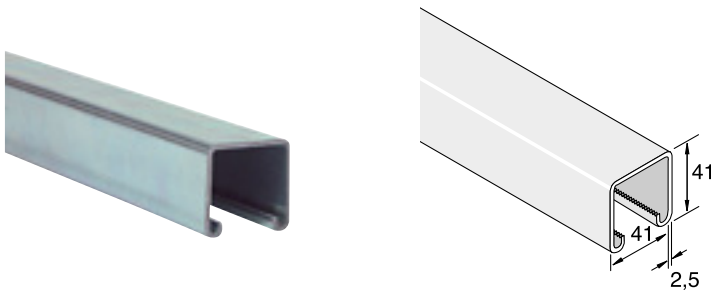


T1100T-SS

Art.Nr.	L mm		KG 1 pcs.
P1111246	6000	50	13.00

Unistrut single channel P1000

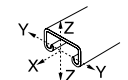
Material : Stainless Steel - 1.4404 - EN 10088-2



P1000-SS

Art.Nr.	L mm		KG 1 pcs.
P1011146	6000	50	16.06

L(mm)	Fmax(kN) δmax(mm)		Fmax(kN) δmax(mm)		F (kN)	δ = 1/200L	δ = 1/360L	F (kN)
	σ=175 N/mm²	σ=175 N/mm²	σ=175 N/mm²	σ=175 N/mm²				
250	8.677	0.18	17.354	0.23	-	-	-	16.608
500	4.336	0.76	8.672	0.95	-	-	-	16.187
750	2.889	1.72	5.778	2.15	-	-	5.602	15.245
1000	2.168	3.06	4.336	3.82	-	-	3.149	13.685
1250	1.731	4.78	3.463	5.97	-	-	2.011	12.086
1500	1.442	6.88	2.884	8.60	2.521	-	1.393	10.722
1750	1.236	9.36	2.472	11.70	1.844	-	1.020	9.575
2000	1.084	12.23	2.168	15.29	1.413	-	0.785	8.623
2250	0.961	15.48	1.923	19.35	1.118	-	0.618	7.819
2500	0.863	19.11	1.727	23.89	0.903	-	0.500	7.112

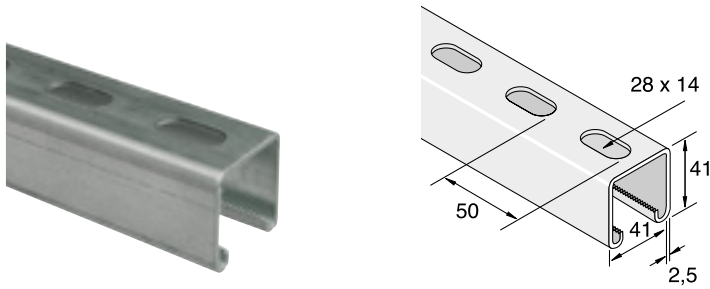


- A = 3.35 cm²
- W/m = 2.68 kg/m
- I_{y-y} = 7.21 cm⁴
- Z_{y-y} = 3.10 cm³
- r_{y-y} = 1.46 cm
- I_{z-z} = 9.23 cm⁴
- Z_{z-z} = 4.47 cm³
- r_{z-z} = 1.66 cm

*k.L/r => 180 < 250

Unistrut single channel P1000T

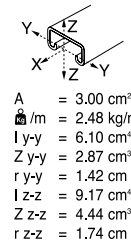
Material : Stainless Steel - 1.4404 - EN 10088-2



P1000T-SS

Art.Nr.	L mm	KG 1 pcs.
P1011246	6000	14.89

L(mm)	$\sigma=175 \text{ N/mm}^2$		$\sigma=175 \text{ N/mm}^2$		$\delta=1/200L$	$\delta=1/360L$	F(kN)
	Fmax(kN)	$\delta_{\text{max}}(\text{mm})$	Fmax(kN)	$\delta_{\text{max}}(\text{mm})$	F (kN)	F (kN)	
250	8.034	0.22	16.069	0.27	-	-	16.283
500	4.017	0.84	8.034	1.05	-	-	16.039
750	2.678	1.88	5.356	2.35	-	4.738	15.274
1000	2.006	3.34	4.012	4.18	-	2.659	13.626
1250	1.604	5.23	3.208	6.54	3.071	1.707	11.880
1500	1.339	7.53	2.678	9.41	2.129	1.177	10.418
1750	1.148	10.25	2.296	12.81	1.560	0.863	9.231
2000	1.001	13.38	2.001	16.73	1.197	0.657	8.270
2250	0.893	16.94	1.785	21.18	0.942	0.520	7.465
2500	0.800	20.92	1.599	26.15	0.765	0.422	6.779



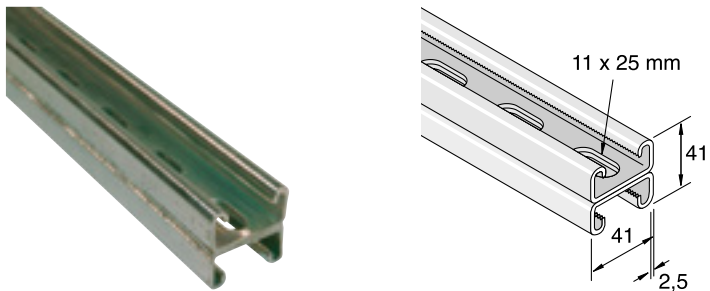
$A = 3.00 \text{ cm}^2$
 $i/m = 2.48 \text{ kg/m}$
 $I_{y-y} = 6.10 \text{ cm}^4$
 $Z_{y-y} = 2.87 \text{ cm}^3$
 $r_{y-y} = 1.42 \text{ cm}$
 $I_{z-z} = 9.17 \text{ cm}^4$
 $Z_{z-z} = 4.44 \text{ cm}^3$
 $r_{z-z} = 1.74 \text{ cm}$

*k.L/r =>180 < 250

Medium & Heavy Duty Framing System

Unistrut double channel P3301T10

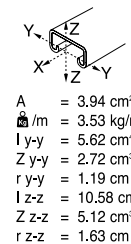
Material : Stainless Steel - 1.4404 - EN 10088-2



P3301T10-SS

Art.Nr.	L mm	KG /100
P3321346	6000	21.19

L(mm)	$\sigma=175 \text{ N/mm}^2$		$\sigma=175 \text{ N/mm}^2$		$\delta=1/200L$	$\delta=1/360L$	F(kN)
	Fmax(kN)	$\delta_{\text{max}}(\text{mm})$	Fmax(kN)	$\delta_{\text{max}}(\text{mm})$	F (kN)	F (kN)	
750	2.536	1.94	5.072	2.42	-	4.365	16.599
1000	1.903	3.44	3.806	4.30	-	2.453	15.667
1250	1.521	5.38	3.041	6.72	2.825	1.570	14.156
1500	1.265	7.74	2.531	9.68	1.962	1.089	12.478
1750	1.084	10.54	2.168	13.18	1.442	0.795	10.899
2000	0.952	13.77	1.903	17.21	1.099	0.608	9.496
2250	0.844	17.42	1.687	21.78	0.873	0.481	8.289*
2500	0.760	21.49	1.521	26.86	0.706	0.392	7.250*
2750	0.692	26.03	1.383	32.54	0.579	0.324	6.377*
3000	0.633	30.98	1.265	38.73	0.491	0.265	-



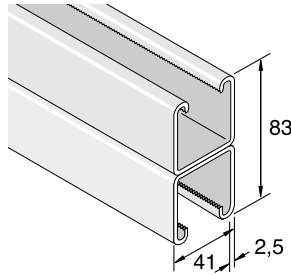
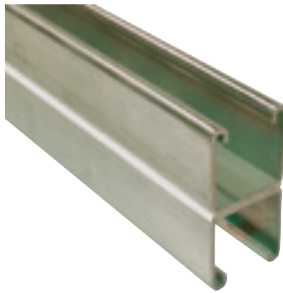
$A = 3.94 \text{ cm}^2$
 $i/m = 3.53 \text{ kg/m}$
 $I_{y-y} = 5.62 \text{ cm}^4$
 $Z_{y-y} = 2.72 \text{ cm}^3$
 $r_{y-y} = 1.19 \text{ cm}$
 $I_{z-z} = 10.58 \text{ cm}^4$
 $Z_{z-z} = 5.12 \text{ cm}^3$
 $r_{z-z} = 1.63 \text{ cm}$

*k.L/r =>180 < 250



Unistrut double channel P1001

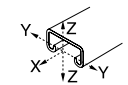
Material : Stainless Steel - 1.4404 - EN 10088-2



P1001-SS

Art.Nr.	L mm		KG 1 pcs.
P1021146	6000	25	32.11

L(mm)	$\sigma=175 \text{ N/mm}^2$		$\sigma=175 \text{ N/mm}^2$		F (kN)	$\delta = \frac{1}{360}L$	F (kN)
	F _{max} (kN)	δ_{max} (mm)	F _{max} (kN)	δ_{max} (mm)			
750	8.191	0.97	16.383	1.21	-	-	27.792
1000	6.146	1.72	12.292	2.15	-	-	27.301
1250	4.915	2.69	9.830	3.36	-	-	26.438
1500	4.096	3.87	8.191	4.84	-	7.044	25.025
1750	3.512	5.27	7.024	6.59	-	5.170	23.220
2000	3.071	6.89	6.141	8.61	-	3.963	21.288
2250	2.727	8.71	5.454	10.89	-	3.129	19.394
2500	2.457	10.76	4.915	13.45	4.562	2.531	17.619
2750	2.232	13.02	4.464	16.27	3.767	2.090	15.990
3000	2.045	15.50	4.091	19.37	3.169	1.756	14.519*

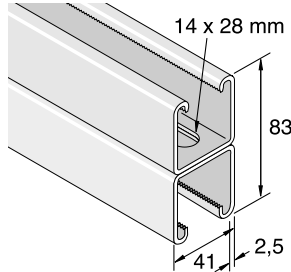
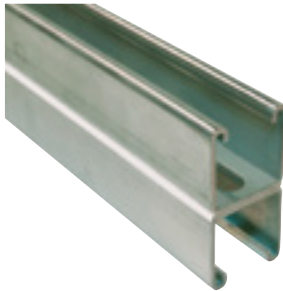


$A = 6.70 \text{ cm}^2$
 $\rho/m = 5.35 \text{ kg/m}$
 $I_{y-y} = 36.27 \text{ cm}^4$
 $Z_{y-y} = 8.78 \text{ cm}^3$
 $r_{y-y} = 2.32 \text{ cm}$
 $I_{z-z} = 18.46 \text{ cm}^4$
 $Z_{z-z} = 8.94 \text{ cm}^3$
 $r_{z-z} = 1.66 \text{ cm}$

*k.L/r \Rightarrow 180 < 250

Unistrut double channel P1001T

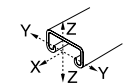
Material : Stainless Steel - 1.4404 - EN 10088-2



P1001T-SS

Art.Nr.	L mm		KG 1 pcs.
P1021246	6000	25	29.78

L(mm)	$\sigma=175 \text{ N/mm}^2$		$\sigma=175 \text{ N/mm}^2$		F (kN)	$\delta = \frac{1}{360}L$	F (kN)
	F _{max} (kN)	δ_{max} (mm)	F _{max} (kN)	δ_{max} (mm)			
750	8.182	0.97	16.363	1.21	-	-	27.027
1000	6.136	1.72	12.272	2.15	-	-	26.585
1250	4.910	2.69	9.820	3.36	-	-	25.830
1500	4.091	3.87	8.182	4.84	-	7.034	24.584
1750	3.057	5.27	7.014	6.59	-	5.170	22.906
2000	3.066	6.89	6.131	8.61	-	3.953	21.042
2250	2.727	8.72	5.454	10.90	-	3.120	19.198
2500	2.453	10.77	4.905	13.46	4.552	2.531	17.452
2750	2.232	13.02	4.464	16.28	3.767	2.090	15.852
3000	2.045	15.50	4.091	19.38	3.159	1.756	14.391*

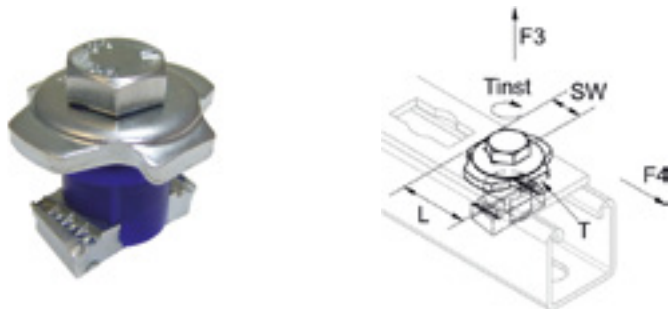


$A = 6.00 \text{ cm}^2$
 $\rho/m = 4.96 \text{ kg/m}$
 $I_{y-y} = 36.21 \text{ cm}^4$
 $Z_{y-y} = 8.77 \text{ cm}^3$
 $r_{y-y} = 2.45 \text{ cm}$
 $I_{z-z} = 18.34 \text{ cm}^4$
 $Z_{z-z} = 8.88 \text{ cm}^3$
 $r_{z-z} = 1.74 \text{ cm}$

*k.L/r \Rightarrow 180 < 250

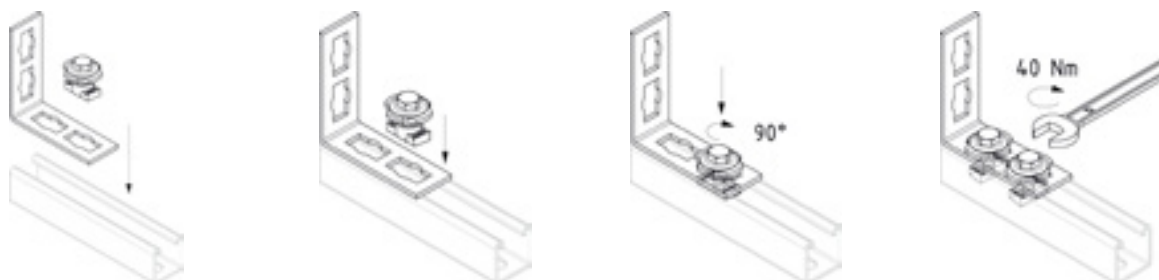
Kwikstrut Uni lock channel nut - QFNH-SS

Material : Stainless Steel 1.4404 - EN 10088-2005; Plastic part PP



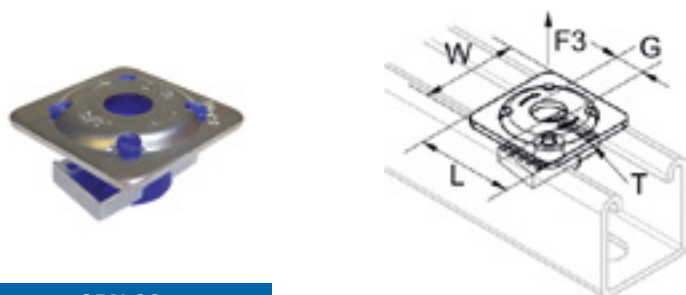
QFNH-SS

Art.Nr.	G	L mm	T mm	F3 kN	F4 kN	Tinst Nm	SW mm	KG /100	
1351118	M10	40	4	4	3	40	17	8	50



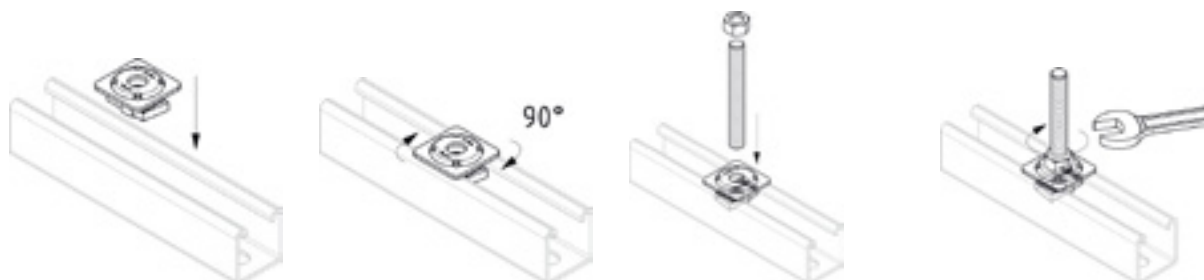
Kwikstrut channel nut with square washer - QRN-SS

Material : Stainless Steel 1.4404 - EN 10088-2005; Plastic part PP



QRN-SS

Art.Nr.	G	L mm	W mm	T mm	F3 kN	KG /100	
1352621	M6	40	40	2.5	5	6.4	50
1352822	M8	40	40	2.5	5	6.0	50
1352021	M10	40	40	2.5	5	5.9	50
1352221	M12	40	40	2.5	5	5.3	50

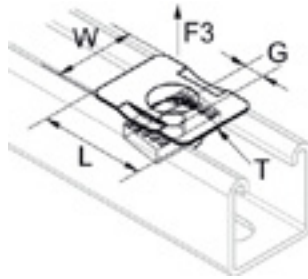


Medium & Heavy Duty Framing System




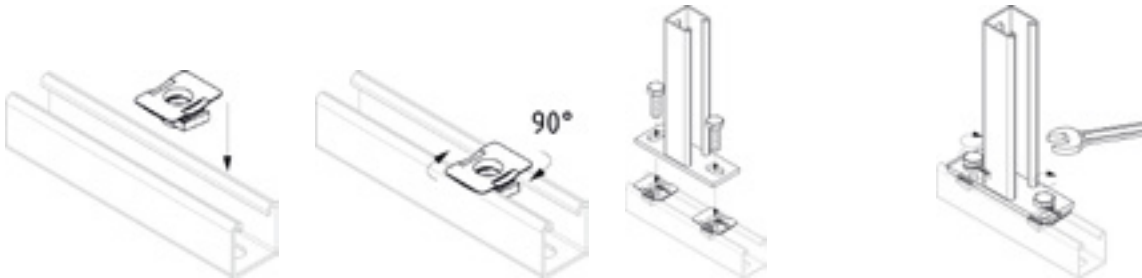
Kwikstrut channel nut with plastic washer - QCN-SS

Material : Stainless Steel 1.4404 - EN 10088-2005; Plastic part PP



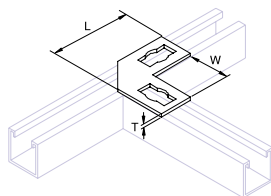
QCN-SS

Art.Nr.	G	L mm	W mm	T mm	F3 kN	KG /100	
1351632	M6	45	34	0.8	5	3.0	50
1351832	M8	45	34	0.8	5	2.9	50
1351032	M10	45	34	0.8	5	2.8	50
1351232	M12	45	34	0.8	5	2.6	50



Kwikstrut flat angle fitting 90° - QFA-SS

Material : Stainless Steel 1.4404 - EN 10088-2005

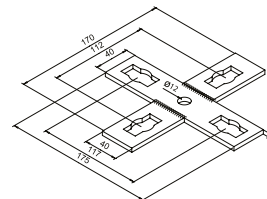


QFA-SS

Art.Nr.	L mm	W mm	T mm	Nut qty	KG /100	
1350125	92	52	4	2	12.5	25

Kwikstrut cross fitting - QFX-SS

Material : Stainless Steel 1.4404 - EN 10088-2005

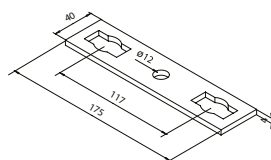


QFX-SS

Art.Nr.	L mm	W mm	T mm	Nut qty	KG /100	
1350145	175	170	4	4	29.5	50

Kwikstrut I-fitting - QFI-SS

Material : Stainless Steel 1.4404 - EN 10088-2005

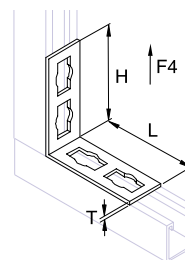


QFI-SS

Art.Nr.	L mm	W mm	T mm	Nut qty	KG /100	
1350147	175	40	4	2	16.7	100

Kwikstrut flat angle fitting 90° - QFFA-SS

Material : Stainless Steel 1.4404 - EN 10088-2005

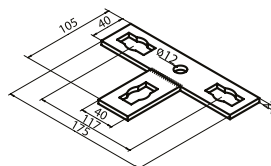


QFFA-SS

Art.Nr.	L mm	H mm	T mm	F4 kN	Nut qty	KG /100	
1359025	65	65	4	3	2	10.7	25
1359035	65	110	4	3	3	14.5	25
1359045	110	110	4	5	4	18.3	25

Kwikstrut T fitting - QFT-SS

Material : Stainless Steel 1.4404 - EN 10088-2005

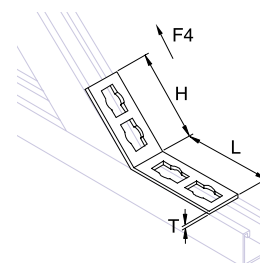


QFT-SS

Art.Nr.	L mm	W mm	T mm	Nut qty	KG /100	
1350146	175	105	4	3	23.6	25

Kwikstrut flat angle fitting 135° - QFFA 135-SS

Material : Stainless Steel 1.4404 - EN 10088-2005



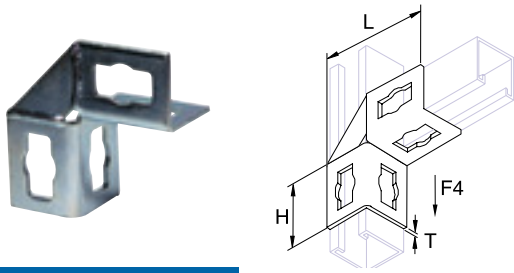
QFFA 135-SS

Art.Nr.	L mm	H mm	T mm	F4 kN	Nut qty	KG /100	
1353535	65	110	4	3	3	14.5	25
1353545	110	110	4	5	4	18.3	25



Kwikstrut angle fitting 90° - QFAZ-SS

Material : Stainless Steel 1.4404 - EN 10088-2005

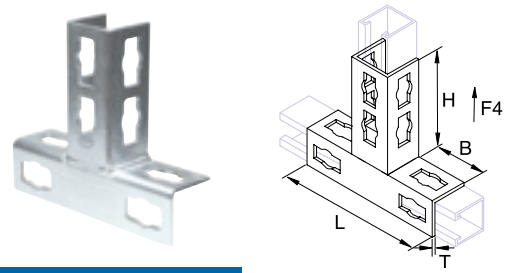


QFAZ-SS

Art.Nr.	L mm	H mm	T mm	F4 kN	Nut qty	KG /100	
1359055	103	58	4	3	2	25.2	10
1359065	150	106	4	5	4	41.7	10

Kwikstrut cross fitting - QFTT-SS

Material : Stainless Steel 1.4404 - EN 10088-2005

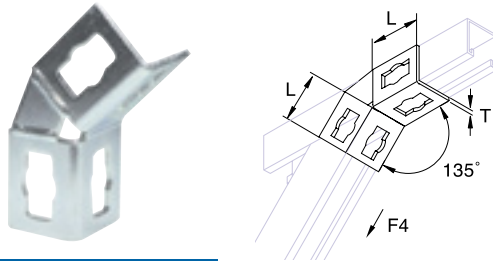


QFTT-SS

Art.Nr.	L mm	H mm	T mm	F4 kN	Nut qty	KG /100	
1354118	150	108	4	5	3	18.9	25

Kwikstrut angle fitting 135° - QFA 135-SS

Material : Stainless Steel 1.4404 - EN 10088-2005

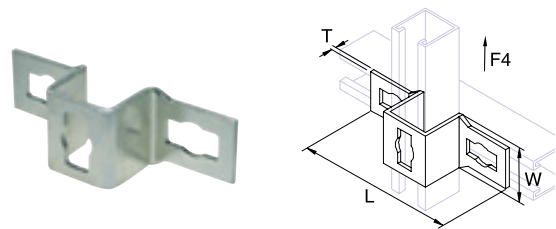


QFA 135-SS

Art.Nr.	L mm	T mm	F4 kN	Nut qty	KG /100	
1353565	103	4	5	4	39.7	10

Kwikstrut U shaped fitting - QFU-SS

Material : Stainless Steel 1.4404 - EN 10088-2005

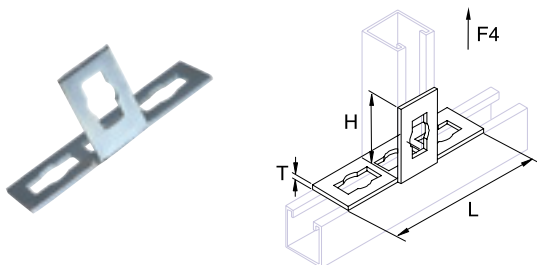


QFU-SS

Art.Nr.	L mm	W mm	T mm	F4 kN	Nut qty	KG /100	
1354138	162	52	4	3	3	27.8	25

Kwikstrut angle - T fitting - QFFT-SS

Material : Stainless Steel 1.4404 - EN 10088-2005

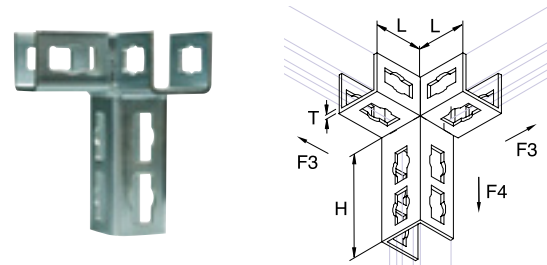


QFFT-SS

Art.Nr.	L mm	H mm	T mm	F4 kN	Nut qty	KG /100	
1350115	150	66	4	3	3	18.9	25

Kwikstrut 3 way cross fitting - QFCL-QFCR-SS

Material : Stainless Steel 1.4404 - EN 10088-2005

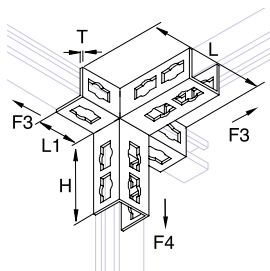


QFCL-QFCR-SS

Art.Nr.	L mm	H mm	T mm	F3 kN	F4 kN	Nut qty	KG /100	
1354113	62	107	4	3	5	4	67.8	10
1354114	62	107	4	3	5	4	67.8	10

Kwikstrut 4 way cross fitting - QFCD-SS

Material : Stainless Steel 1.4404 - EN 10088-2005



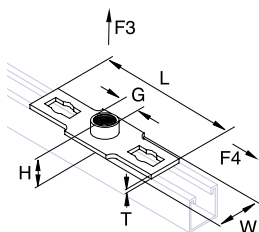
QFCD-SS

Art.Nr.	L mm	H mm	T mm	F3 kN	F4 kN	Nut qty	KG /100	
1354179	175	108	4	3	5	6	97.4	10

Medium & Heavy Duty Framing System

Kwikstrut rod connection fitting - QFMP-SS

Material : QFMP-SS-Material text.txt

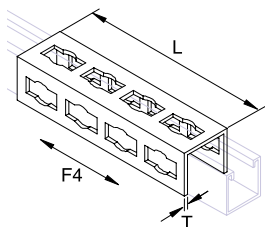


QFMP-SS

Art.Nr.	G	L mm	W mm	H mm	T mm	Nut qty	KG /100	
1351626	M16	176	56	18	5	2	30.6	25
1352225	1/2"	176	56	21	5	2	29.9	25
1352825	3/4"	176	56	23	5	2	29.9	25

Kwikstrut channel coupler - QFDC-SS

Material : Stainless Steel 1.4404 - EN 10088-2005



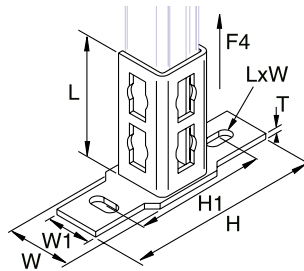
QFDC-SS

Art.Nr.	L mm	T mm	F4 kN	Nut qty	KG /100	
1354148	193	4	5	4	53	10



Kwikstrut channel base fitting QBS-SS

Material : Steel DD11 - EN 10111

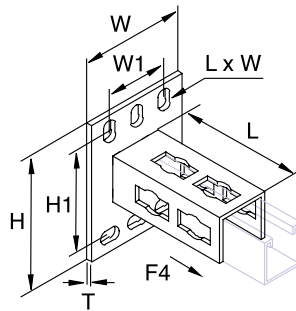


QBS-SS

Art.Nr.	L mm	W mm	W1 mm	H mm	H1 mm	T mm	LxW mm	F4 kN	Nut qty	KG /100	
1354159	108	56	40	175	118	5	13x25	5	4	77	10

Kwikstrut channel base fitting QB41-SS

Material : QB41-SS-Material text1.txt

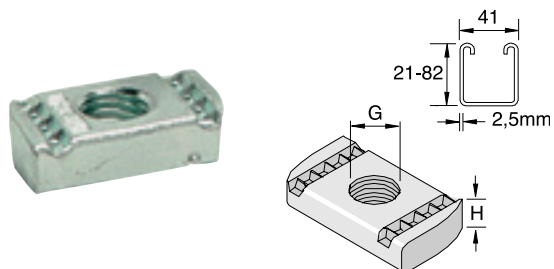


QB41-SS

Art.Nr.	L mm	W mm	W1 mm	H mm	H1 mm	T mm	LxW mm	F4 kN	Nut qty	KG /100	
1354158	108	100	62	130	100	5	13x25	5	2	75.2	10

Unistrut channel nuts

Material : Stainless Steel 316

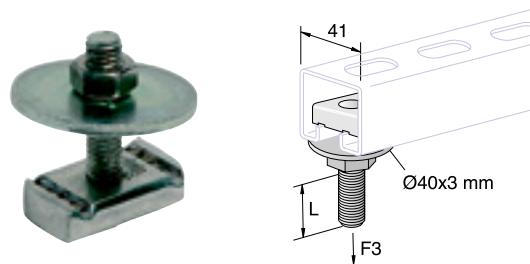


PNP-SS

Art.Nr.	G	H mm	KG /100	
PNP06SS	M6	6.5	2.8	100
PNP08SS	M8	8	2.9	100
PNP10SS	M10	9	3.8	100
PNP12ASS	M12	9	3.8	100
PNP16SS	M16	12	10	100

Unistrut stud nuts SN-SS

Material : Stainless Steel 316

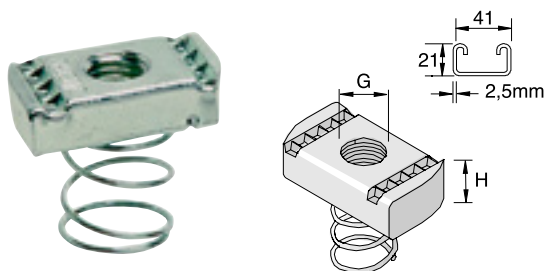


SN-SS

Art.Nr.	G	L mm	KG /100	
M8X40SNSS	M8	25.5	9.4	50
M10X40SNSS	M10	23	9.6	50
M12X40SNSS	M12	21	11.7	50

Unistrut channel nuts short spring

Material : Stainless Steel 316

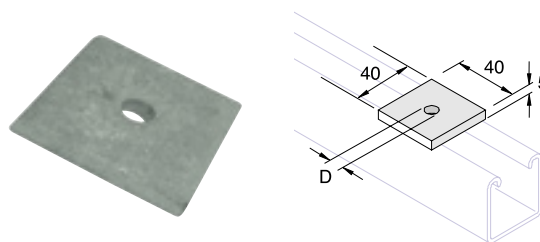


PNS-SS

Art.Nr.	G	H mm	KG /100	
PNS06SS	M6	6.5	2.8	100
PNS08SS	M8	8	2.9	100
PNS10SS	M10	9	3.8	100
PNS12ASS	M12	9	3.8	100

Unistrut flat fittings P1062-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

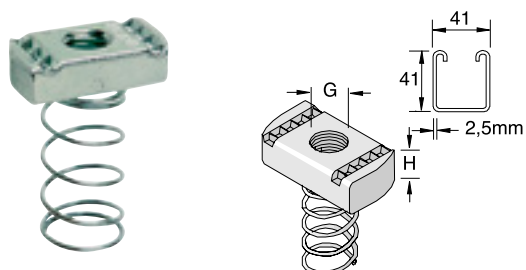


P1062-SS

Art.Nr.	G	KG /100	
P1019SS	M6 & M8	7.2	100
P1020SS	M10 & M12	6.5	100

Unistrut channel nuts long spring

Material : Stainless Steel 316

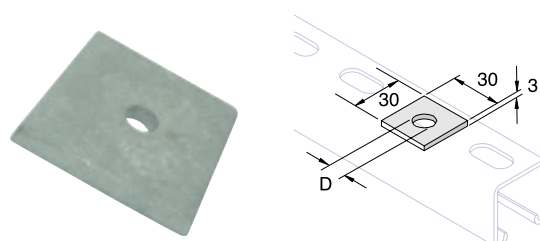


PNL-SS

Art.Nr.	G	H mm	KG /100	
PNL06SS	M6	6.5	2.8	100
PNL08SS	M8	8	2.9	100
PNL10SS	M10	9	42	100
PNL12ASS	M12	9	40	100

Unistrut flat fittings P1063-SS

Material : Stainless Steel - 1.4404 - EN 10088-2



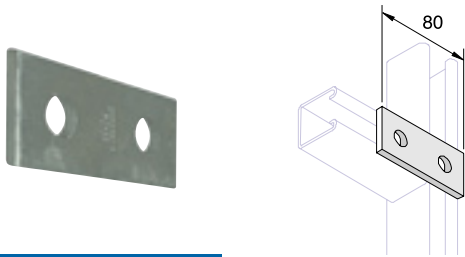
P1063-SS

Art.Nr.	G	KG /100	
P1063/08SS	M8	1.3	100
P1063/10SS	M10	1.3	100
P1063/12SS	M12	1.8	100



Unistrut flat fittings P1065-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

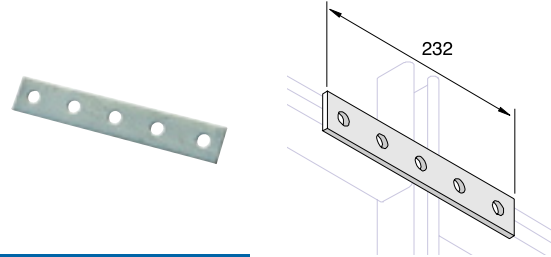


P1065-SS

Art.Nr.	KG /100	
P1065SS	16.3	50

Unistrut flat fittings P1941-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

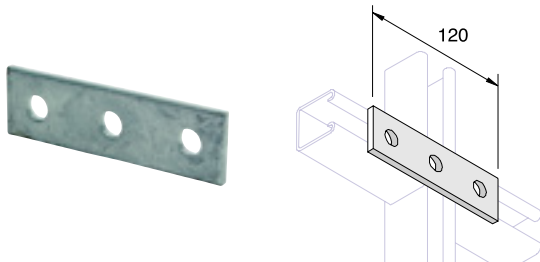


P1941-SS

Art.Nr.	KG /100	
P1941SS	40.8	10

Unistrut flat fittings P1066-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

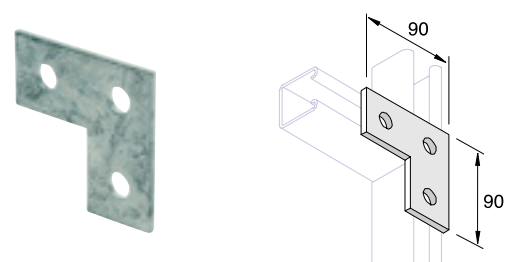


P1066-SS

Art.Nr.	KG /100	
P1066SS	24.5	25

Unistrut flat fittings P1036-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

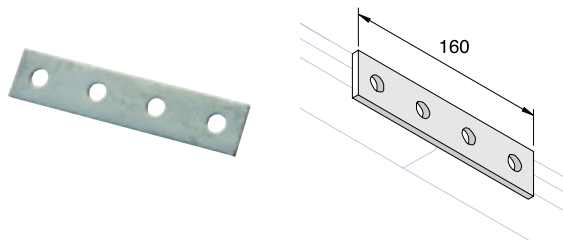


P1036-SS

Art.Nr.	KG /100	
P1036SS	25.5	35

Unistrut flat fittings P1067-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

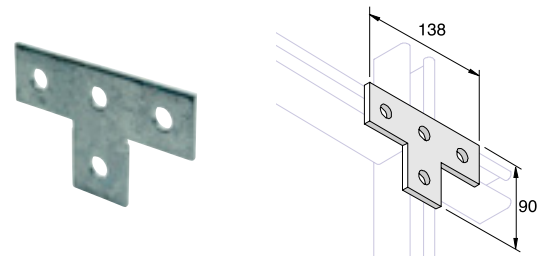


P1067-SS

Art.Nr.	KG /100	
P1067SS	31.7	25

Unistrut flat fittings P1031-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

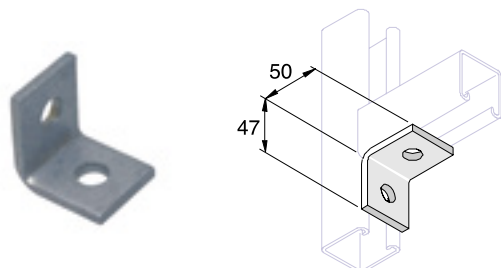


P1031-SS

Art.Nr.	KG /100	
P1031SS	34	25

Unistrut angle fittings 90° - P1026-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

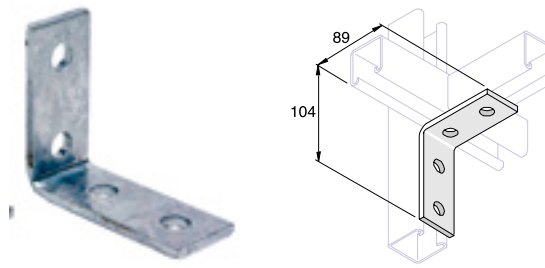


P1026-SS

Art.Nr.	H mm	L mm	KG /100	
P1026SS	47	50	15	50

Unistrut angle fittings 90° - P1325-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

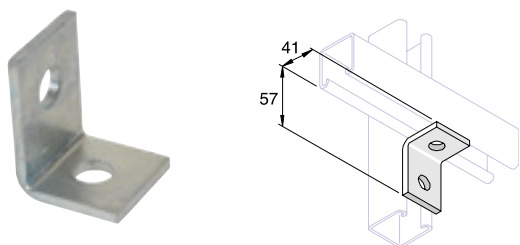


P1325-SS


Art.Nr.	H mm	L mm	KG /100	
P1325SS	104	89	32.3	25

Unistrut angle fittings 90° - P1068-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

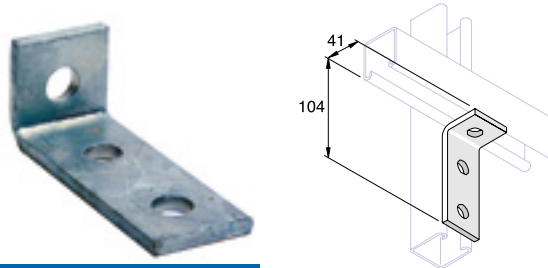


P1068-SS

Art.Nr.	F1 kN	KG /100	
P1068SS	3.5	15	50

Unistrut angle fittings 90° - P1326-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

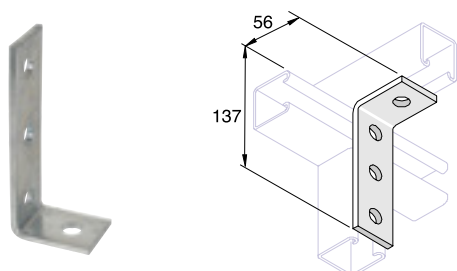


P1326-SS

Art.Nr.	F1 kN	KG /100	
P1326SS	3.5	24.5	35

Unistrut angle fittings 90° - P1278-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

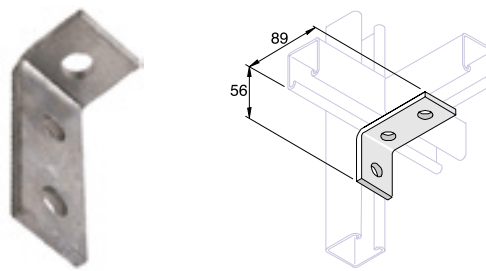


P1278-SS


Art.Nr.	H mm	L mm	KG /100	
P1278SS	137	56	31.7	30

Unistrut angle fittings 90° - P1346-SS

Material : Stainless Steel - 1.4404 - EN 10088-2



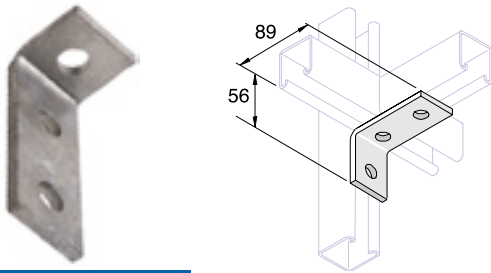
P1346-SS

Art.Nr.	F1 kN	KG /100	
P1346SS	9.1	24.5	35




Unistrut angle fittings 90° - P1458-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

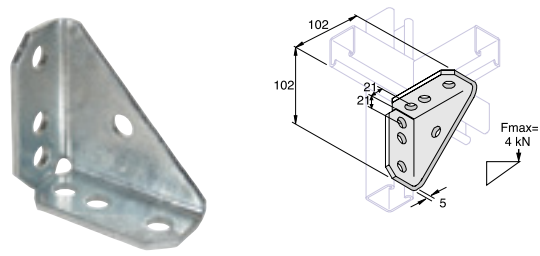


P1458-SS

Art.Nr.	H mm	L mm	KG /100	
P1458SS	56	89	24.5	35

Unistrut angle fittings 90° - P2484-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

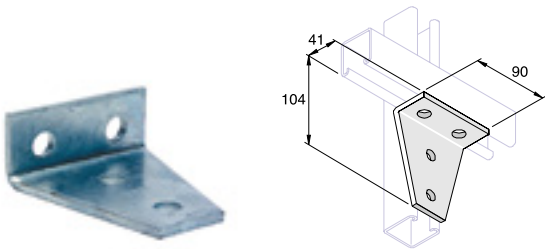


P2484-SS

Art.Nr.	F1 kN	KG /100	
P2484SS	4	48.6	15

Unistrut angle fittings 90° - P1359-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

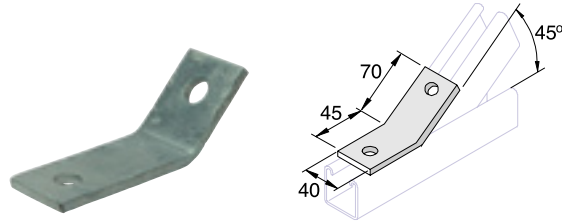


P1359-SS

Art.Nr.	KG /100	
P1359SS	63.3	15

Unistrut special angle fittings P1546-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

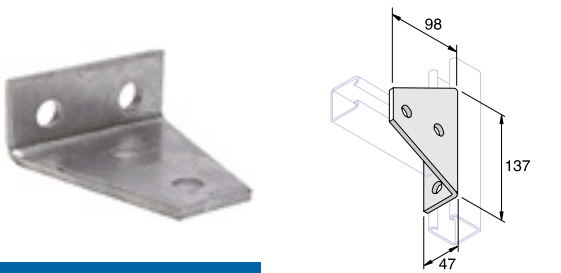


P1546-SS

Art.Nr.	KG /100	
P1546SS	25.7	20

Unistrut angle fittings 90° - P1727-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

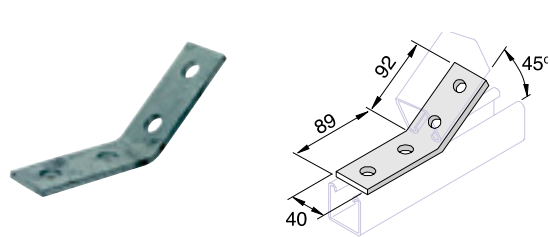


P1727-SS

Art.Nr.	KG /100	
P1727SS	35	10

Unistrut special angle fittings P1074-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

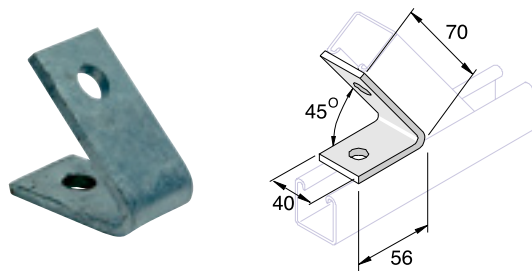


P1074-SS

Art.Nr.	KG /100	
P1074SS	31.7	25

Unistrut special angle fittings P1186-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

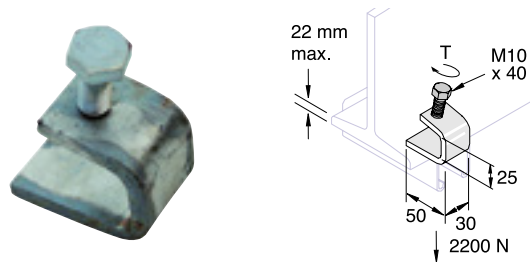


P1186-SS


Art.Nr.	KG /100	
P1186SS	25.1	25

Unistrut channel beamclamps P1272-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

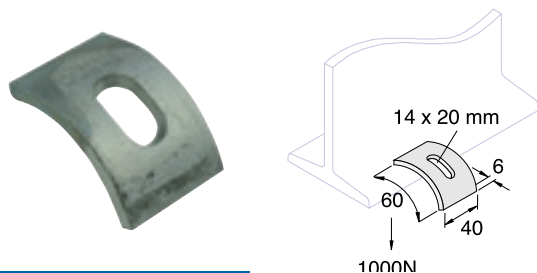


P1272-SS

Art.Nr.	Tinst Nm	KG /100	
P1272SS	10	18.7	50

Unistrut channel beamclamps C711-SS

Material : Stainless Steel - 1.4401 - EN 10088-2

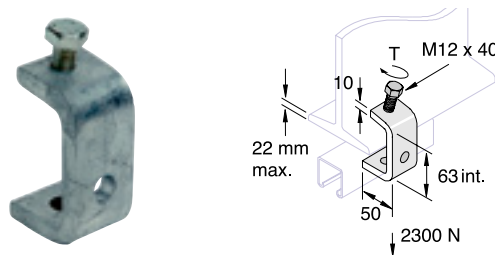


C711-SS

Art.Nr.	KG /100	
C711SS	10	50

Unistrut channel beamclamps P1271-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

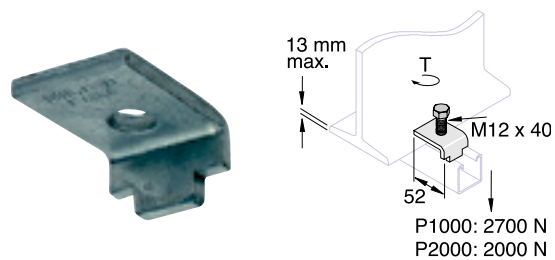


P1271-SS


Art.Nr.	Tinst Nm	KG /100	
P1271SS	20	47.7	25

Unistrut channel beamclamps P1386-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

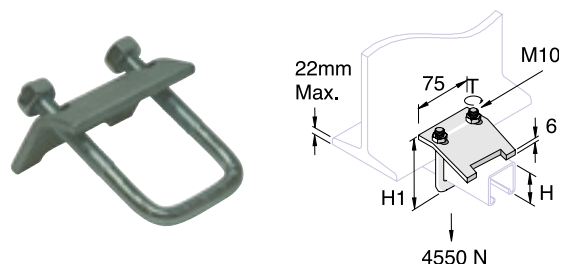


P1386-SS


Art.Nr.	Tinst Nm	KG /100	
P1386SS	70	10.3	50

Unistrut channel beamclamp P2785-86-SS

Material : Stainless Steel - 1.4404 - EN 10088-2



P2785-86-SS

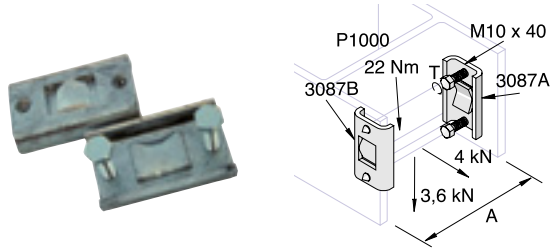
Art.Nr.	H mm	H1 mm	Tinst Nm	KG /100	
P2785SS	21-41	86	22	25.7	25
P2786SS	62-83	127	22	25.7	20

Medium & Heavy Duty Framing System



Unistrut channel beamclamps P3087-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

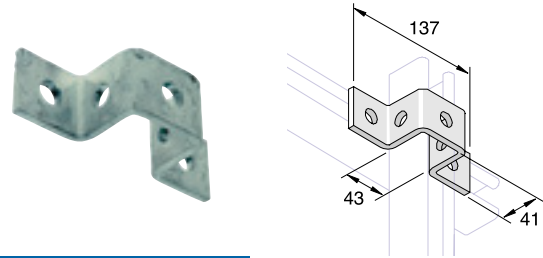


P3087-SS

Art.Nr.	Tinst Nm	KG /100	
P3087SS	22	67	10

Unistrut U & Z fittings P1047-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

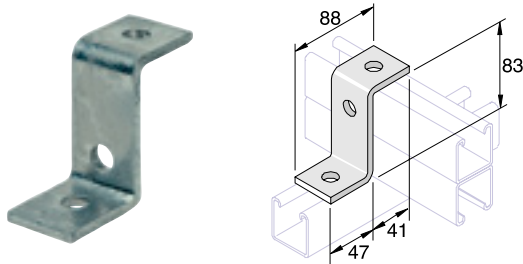


P1047-SS

Art.Nr.	KG /100	
P1047SS	34	20

Unistrut U & Z fittings P1453-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

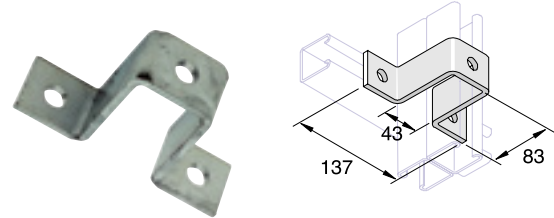


P1453-SS

Art.Nr.	KG /100	
P1453SS	31.8	25

Unistrut U & Z fittings P1737-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

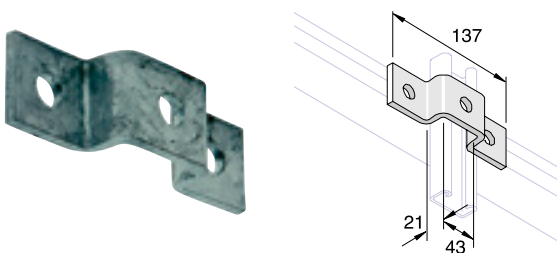


P1737-SS

Art.Nr.	KG /100	
P1737SS	55.8	15

Unistrut U & Z fittings P4047-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

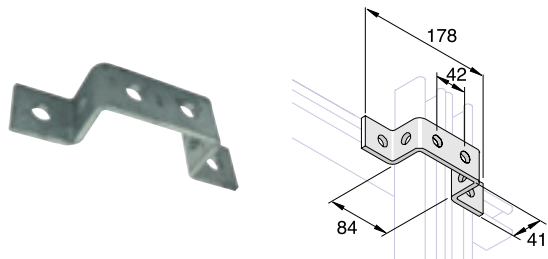


P4047-SS

Art.Nr.	KG /100	
P4047SS	29.8	25

Unistrut U & Z fittings P1043-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

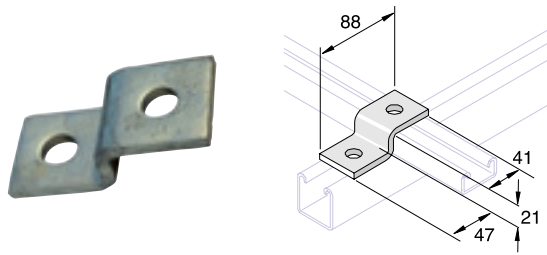


P1043-SS

Art.Nr.	KG /100	
P1043SS	43.9	10

Unistrut U & Z fittings P4045-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

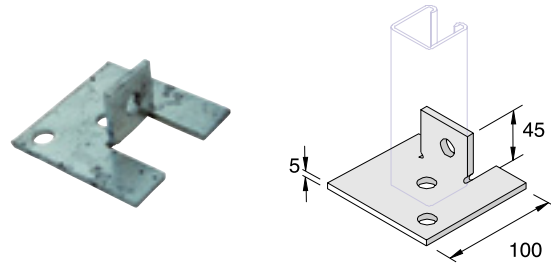


P4045-SS

Art.Nr.	KG /100	
P4045SS	19	35

Unistrut channel base fittings P2072-S2-SS

Material : Stainless steel - 1.4404 (316L ; A4) - EN 10088-2

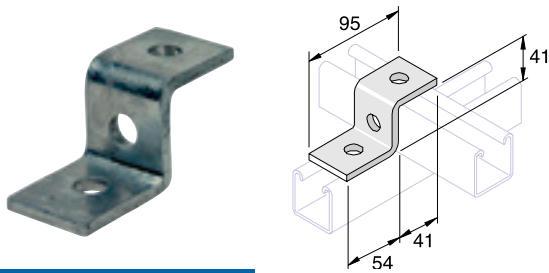


P2072-S2-SS

Art.Nr.	KG /100	
P2072S2SS	39.3	25

Unistrut U & Z fittings P1045-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

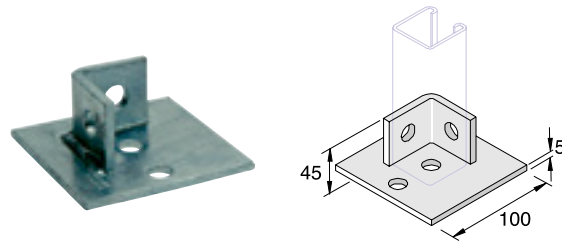


P1045-SS

Art.Nr.	KG /100	
P1045SS	25.5	35

Unistrut channel base fittings P2072-S1-SS

Material : Stainless steel - 1.4404 (316L ; A4) - EN 10088-2

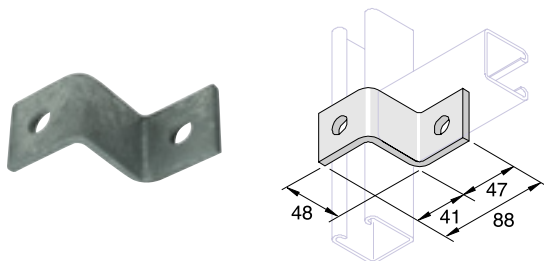


P2072-S1-SS

Art.Nr.	KG /100	
P2072S1SSP	53.2	15

Unistrut U & Z fittings P1347-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

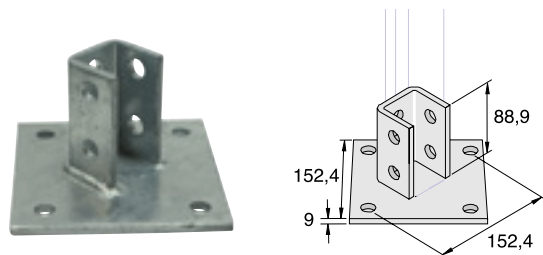


P1347-SS

Art.Nr.	KG /100	
P1347SS	24	25

Unistrut channel base fittings P2072A-SS

Material : Stainless Steel - 1.4404 - EN 10088-2



P2072A-SS

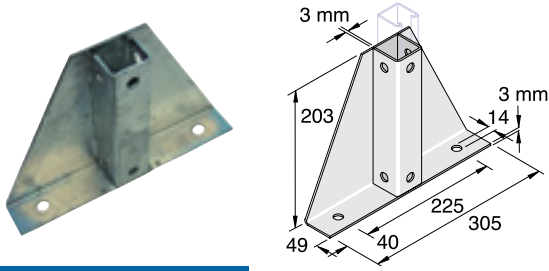
Art.Nr.	KG /100	
P2072ASSP	242.6	5

Medium & Heavy Duty Framing System



Unistrut channel base fittings P2348-S1-SS

Material : Stainless steel - 1.4404 (316L ; A4) - EN 10088-2

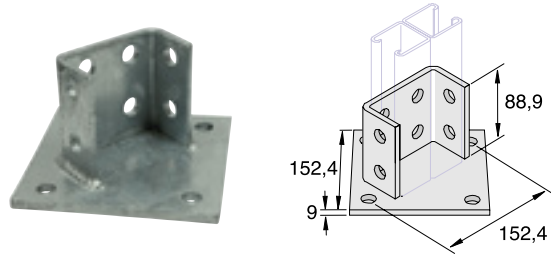


P2348-S1-SS

Art.Nr.	KG /100	
P2348S1SSP	326	1

Unistrut channel base fittings P2073A-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

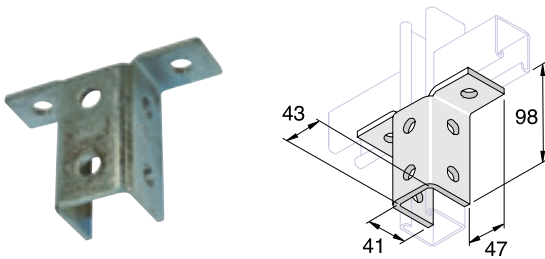


P2073A-SS

Art.Nr.	KG /100	
P2073ASSP	229.7	5

Unistrut channel base fittings P2346-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

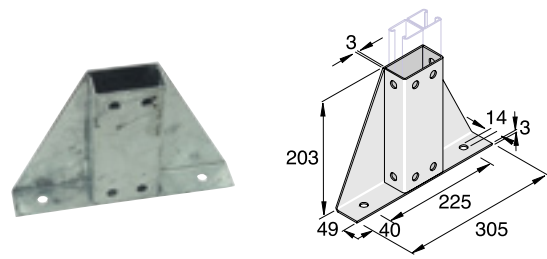


P2346-SS

Art.Nr.	KG /100	
P2346SS	71.5	10

Unistrut channel base fittings P2348-S2-SS

Material : Stainless steel - 1.4404 (316L ; A4) - EN 10088-2

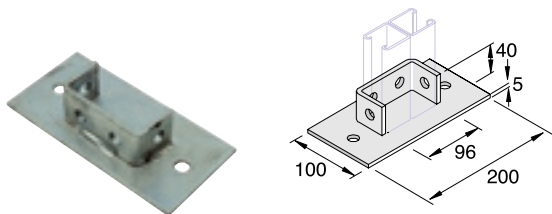


P2348-S2-SS

Art.Nr.	KG /100	
P2348S2SSP	381.2	1

Unistrut channel base fittings P2073-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

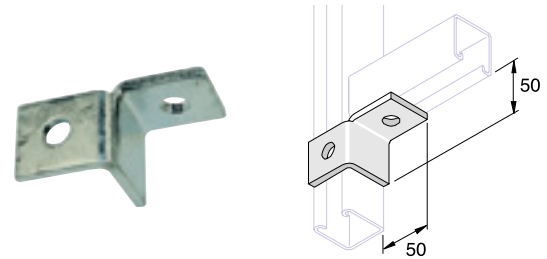


P2073-SS

Art.Nr.	KG /100	
P2073SSP	111.6	6

Unistrut wing fittings P2341R-SS

Material : Stainless Steel - 1.4404 - EN 10088-2



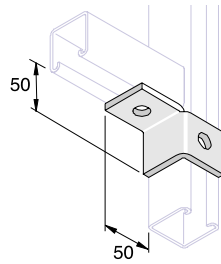
P2341R-SS

Art.Nr.	KG /100	
P2341RSS	24.5	20

Medium & Heavy Duty Framing System

Unistrut wing fittings P2341L-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

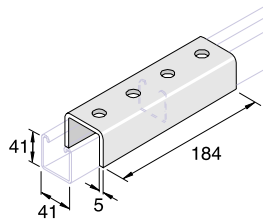
**P2341L-SS**

Art.Nr.	KG /100	
P2341LSS	24.5	20

Medium & Heavy Duty Framing System

Unistrut channel couplers P1377-SS

Material : Stainless Steel - 1.4404 - EN 10088-2

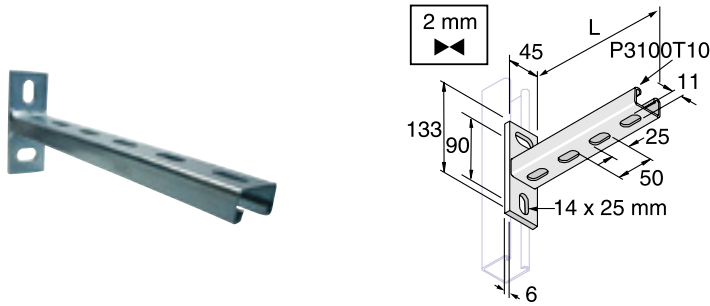
**P1377-SS**

Art.Nr.	KG /100	
P1377SS	91.2	5



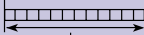



Cantilever arm 41x21x2.0mm T2774T

Material : Backplate: Steel DD11 - EN 10111; Channel: Steel S280JR - EN 10025
 Finish : Electro zinc plated - DIN EN 12329



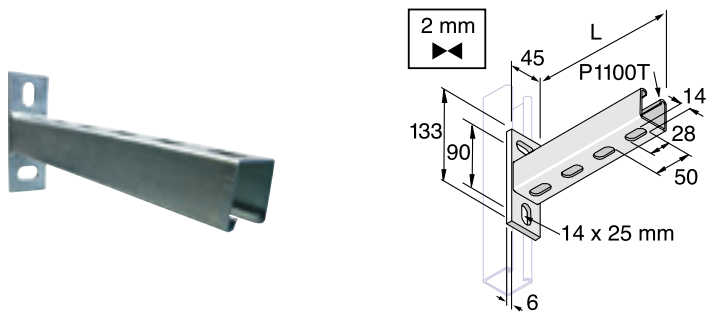
T2774T10

Art.Nr.	L mm		KG /100
P2774T1505	150	10	47.3
P2774T3005	300	1	70.4
P2774T4505	450	1	93.5


Art.nr.	kg	L (mm)				
P2774T1505	0,47	150	1,94 kN	0,97 kN	0,97 kN	0,64 kN
P2774T3005	0,70	300	1,00 kN	0,50 kN	0,50 kN	0,33 kN
P2774T4505	0,94	450	0,67 kN	0,33 kN	0,33 kN	0,22 kN





Cantilever arm 41x41x2.0mm T2773T

Material : Backplate: Steel DD11 - EN 10111; Channel: Steel S280JR - EN 10025
 Finish : Electro zinc plated - DIN EN 12329



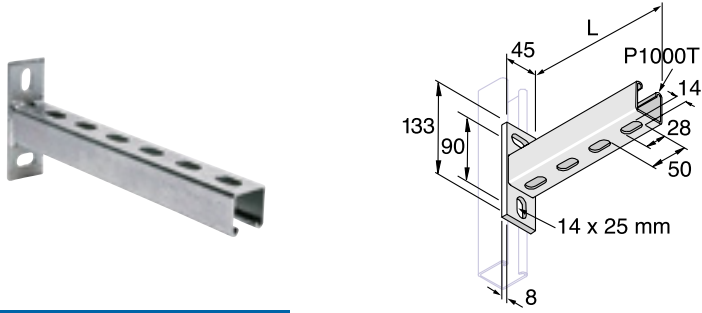
T2773T

Art.Nr.	L mm		KG /100
P2773T1505	150	10	64.3
P2773T3005	300	1	100.8
P2773T4505	450	1	110
P2773T6005	600	1	140


Art.nr.	kg	L (mm)				
P2773T1505	0,64	150	4,83 kN	2,41 kN	2,41 kN	1,61 kN
P2773T3005	1,01	300	2,41 kN	1,21 kN	1,21 kN	0,80 kN
P2773T4505	1,37	450	1,61 kN	0,80 kN	0,80 kN	0,54 kN
P2773T6005	1,73	600	1,21 kN	0,60 kN	0,60 kN	0,40 kN

Unistrut cantilever arm 41x41x2.5mm


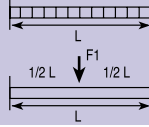

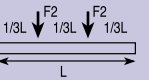

Material : Backplate: Steel DD11 - EN 10111; Channel: Steel S280JR - EN 10025
 Finish : Electro zinc plated - DIN EN 12329



P2663T

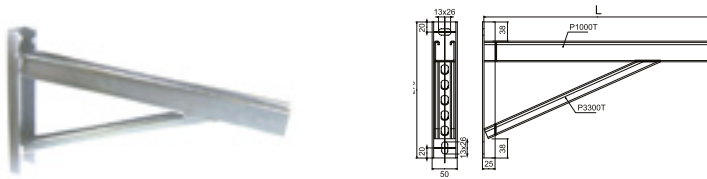
Art.Nr.	L mm		KG /100
P2663T1505	150	10	78.6
P2663T3005	300	1	117.8
P2663T4505	450	1	160.7
P2663T6005	600	1	203.3
P2663T7505	750	1	253

Cantilever Arms & Angle Brackets

Art.nr.	P		L (mm)				
P2663T1505	5	0,96	150	6,12 kN	3,06 kN	3,06 kN	2,04 kN
P2663T3005	5	1,30	300	3,06 kN	1,53 kN	1,53 kN	1,02 kN
P2663T4505	5	1,74	450	2,04 kN	1,02 kN	1,02 kN	0,68 kN
P2663T6005	5	2,06	600	1,53 kN	0,76 kN	0,76 kN	0,50 kN
P2663T7505	5	2,30	750	1,22 kN	0,61 kN	0,61 kN	0,40 kN

Cantilever arm with bracing

Material : Backplate: S235JRG - EN 10277; Channel: Steel S280JR - EN 10025
 Finish : Electro zinc plated - DIN EN 12329



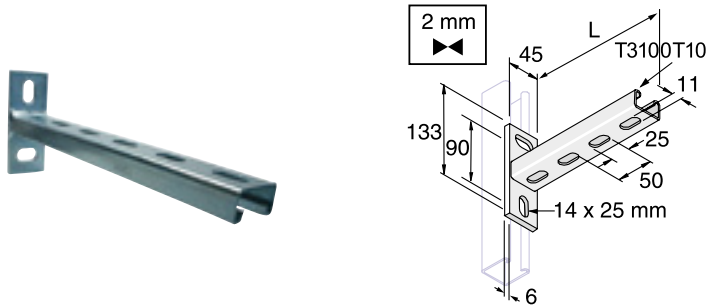
P2700T

Art.Nr.	L mm		KG /100
1394132	300	1	175
1394142	450	1	222
1394162	600	1	268



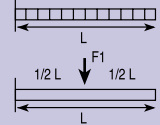
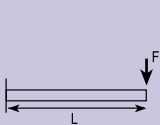
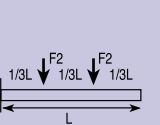
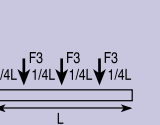
Cantilever arm 41x21x2.0mm T2774T10-HDG

Material : Backplate: Steel DD11 - EN 10111; Channel: Steel S280JR - EN 10025
 Finish : Hot dip galvanised - EN ISO 1461: 2009



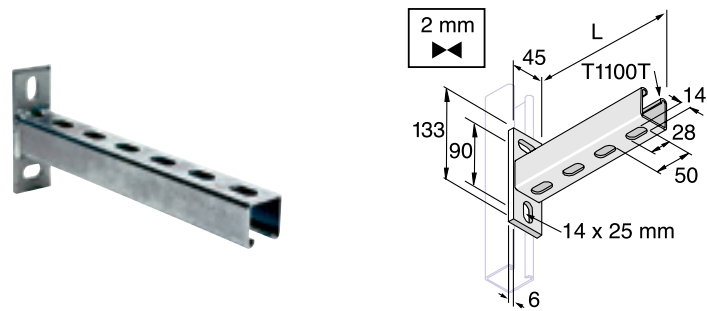
T2774T10-HDG

Art.Nr.	L mm		KG /100
P2774T150	150	10	47.3
P2774T300	300	1	70.4
P2774T450	450	1	93.5


Art.nr.	kg	L (mm)				
P2774T150	0,47	150	1.94 kN	0.97 kN	0.97 kN	0.64 kN
P2774T300	0,70	300	1.00 kN	0.50 kN	0.50 kN	0.33 kN
P2774T450	0,94	450	0.67 kN	0.33 kN	0.33 kN	0.22 kN

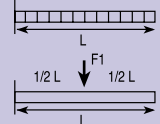
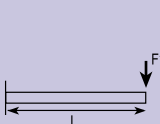
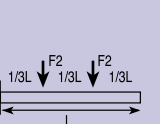
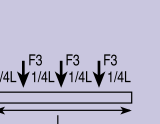
Cantilever arm 41x41x2.0mm T2773T-HDG

Material : Backplate: Steel DD11 - EN 10111; Channel: Steel S280JR - EN 10025
 Finish : Hot dip galvanised - EN ISO 1461: 2009



T2773T-HDG

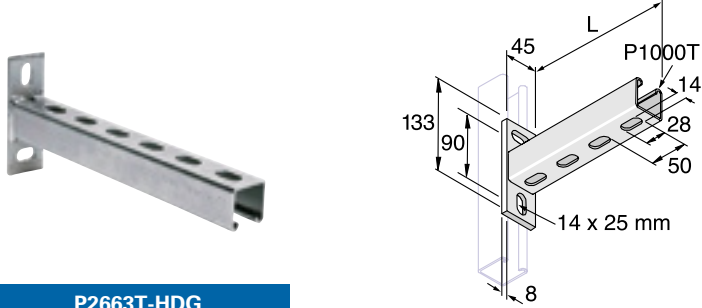
Art.Nr.	L mm		KG /100
P2773T150	150	10	64.3
P2773T300	300	1	100.8
P2773T450	450	1	137.2
P2773T600	600	1	173

Art.nr.	kg	L (mm)				
P2773T150	0,64	150	4,83 kN	2,41 kN	2,41 kN	1,61 kN
P2773T300	1,01	300	2,41 kN	1,21 kN	1,21 kN	0,80 kN
P2773T450	1,37	450	1,61 kN	0,80 kN	0,80 kN	0,54 kN
P2773T600	1,73	600	1,21 kN	0,60 kN	0,60 kN	0,40 kN

Cantilever Arms & Angle Brackets

Cantilever arm 41x41x2.5mm P2663T-HDG

Material : Backplate: Steel DD11 - EN 10111; Channel: Steel S280JR - EN 10025
 Finish : Hot dip galvanised - EN ISO 1461: 2009



P2663T-HDG

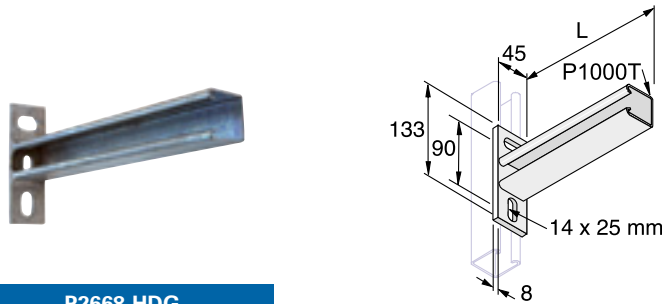
Art.Nr.	L mm		KG /100
P2663T150	150	10	79.8
P2663T300	300	1	123.9
P2663T450	450	1	164.9
P2663T600	600	1	205.9
P2663T750	750	1	246.9

Art.nr.	P	kg	L (mm)	1/2 L	1/3 L	1/4 L
P2663T150	3	0,96	150	6,12 kN	3,06 kN	2,04 kN
P2663T300	3	1,30	300	3,06 kN	1,53 kN	1,02 kN
P2663T450	3	1,74	450	2,04 kN	1,02 kN	0,68 kN
P2663T600	3	2,06	600	1,53 kN	0,76 kN	0,50 kN
P2663T750	3	2,30	750	1,22 kN	0,61 kN	0,40 kN

Cantilever Arms & Angle Brackets

Unistrut cantilever arm P2668-HDG

Material : Backplate: Steel DD11 - EN 10111; Channel: Steel S280JR - EN 10025
 Finish : Hot dip galvanised - EN ISO 1461: 2009



P2668-HDG

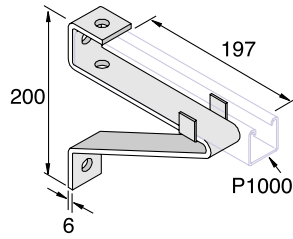
Art.Nr.	L mm		KG /100
P2668T150	150	10	79.8
P2668T300	300	1	117.4
P2668T450	450	1	159.3
P2668T600	600	1	203.4

Art.nr.	P	kg	L (mm)	1/2 L	1/3 L	1/4 L
P2668T150	3	0,80	150	6,20 kN	3,10 kN	2,06 kN
P2668T300	3	1,17	300	3,20 kN	1,60 kN	1,06 kN
P2668T450	3	1,59	450	2,15 kN	1,07 kN	0,71 kN
P2668T600	3	2,03	600	1,62 kN	0,81 kN	0,54 kN



Unistrut angle fitting P1075-8

Material : Steel DD11 - EN 10111
 Finish : Hot dip galvanised - EN ISO 1461: 2009

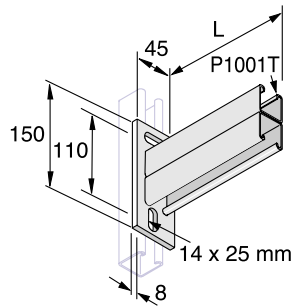


P1075-8

Art.Nr.	KG /100	
P1075-8	105	50

Unistrut cantilever arm P1000T - P2665-HDG

Material : Backplate: Steel DD11 - EN 10111; Channel: Steel S280JR - EN 10025
 Finish : Hot dip galvanised - EN ISO 1461: 2009



P2665-HDG

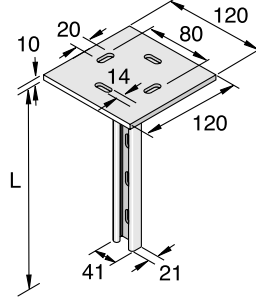
Art.Nr.	L mm		KG /100
P2665/300	300	1	220.6
P2665/450	450	1	309
P2665/600	600	1	379.2
P2665/750	750	1	473.4

Art.nr.	P	kg	L (mm)				
P2665/150	3	1,57	150	8,82 kN	4,41 kN	4,41 kN	2,94 kN
P2665/300	3	3,26	300	6,47 kN	3,23 kN	3,23 kN	2,15 kN
P2665/450	3	4,02	450	4,31 kN	2,15 kN	2,15 kN	1,43 kN
P2665/600	3	4,98	600	3,23 kN	1,61 kN	1,61 kN	1,07 kN
P2665/750	3	5,83	750	2,58 kN	1,29 kN	1,29 kN	0,86 kN

Cantilever Arms & Angle Brackets

Unistrut vertical support with channel P3300T - KL

Material : Backplate: Steel DD11 - EN 10111; Channel: Steel S280JR - EN 10025
 Finish : Hot dip galvanised - EN ISO 1461: 2009

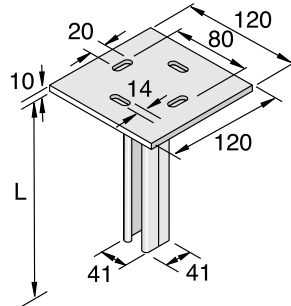


KL


Art.Nr.	L mm		KG /100
KL5003	500	50	205.5
KL7503	750	50	249.5
KL10003	1000	50	293.5

Unistrut vertical support with channel P3301T - KLD

Material : Backplate: Steel DD11 - EN 10111; Channel: Steel S280JR - EN 10025
 Finish : Hot dip galvanised - EN ISO 1461: 2009



KLD

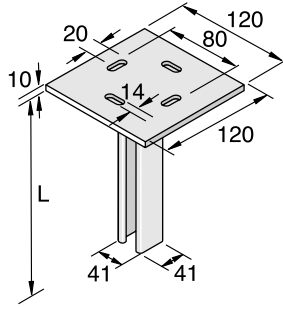
Art.Nr.	L mm		KG /100
KLD5003	500	1	279.9
KLD7503	750	1	386
KLD10003	1000	1	474
KLD12503	1250	1	562.1
KLD15003	1500	1	650.2
KLD20003	2000	1	826.3

Cantilever Arms & Angle Brackets




Unistrut vertical support with channel P1000T - KM

Material : Backplate: Steel DD11 - EN 10111; Channel: Steel S280JR - EN 10025
Finish : Hot dip galvanised - EN ISO 1461: 2009

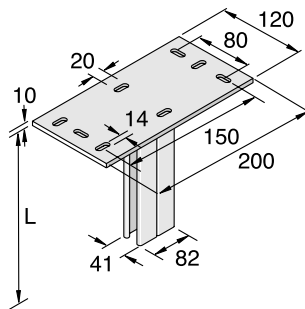


KM


Art.Nr.	L mm		KG /100
KM5003	500	1	256.5
KM7503	750	1	324.9
KM10003	1000	1	393.2
KM12503	1250	1	461.5

Unistrut vertical support with channel P1001T - KH

Material : Backplate: Steel DD11 - EN 10111; Channel: Steel S280JR - EN 10025
Finish : Hot dip galvanised - EN ISO 1461: 2009

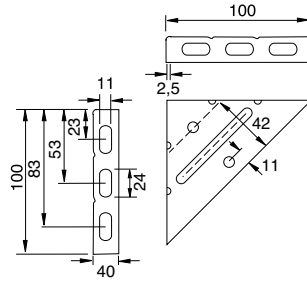


KH

Art.Nr.	L mm		KG /100
KH5003	500	1	467.6
KH7503	750	1	604.3
KH10003	1000	1	741
KH12503	1250	1	877.7
KH15003	1500	1	1014.4
KH20003	2000	1	1287.7

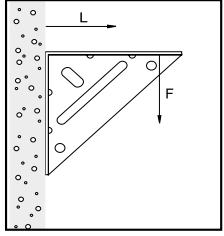
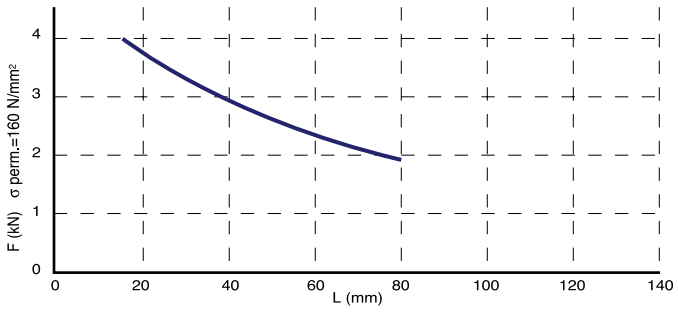
Unistrut angle bracket KON100

Material : Steel DD11 - EN 10111
 Finish : Hot dip galvanised - EN ISO 1461: 2009



KON100

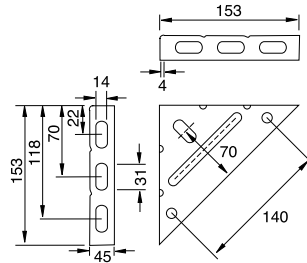
Art.Nr.	KG /100	
KON100	29.7	25



Cantilever Arms & Angle Brackets

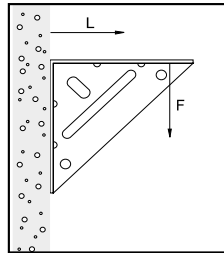
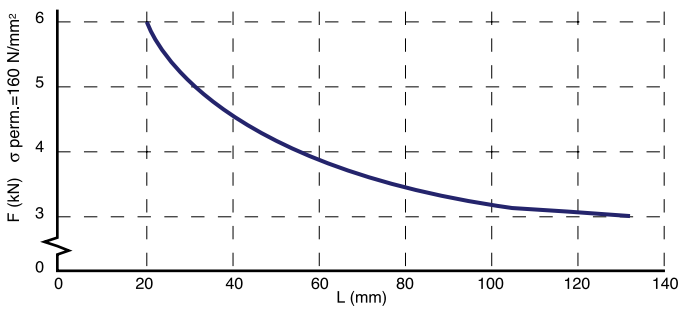
Unistrut angle bracket KON150

Material : Steel DD11 - EN 10111
 Finish : Hot dip galvanised - EN ISO 1461: 2009



KON150

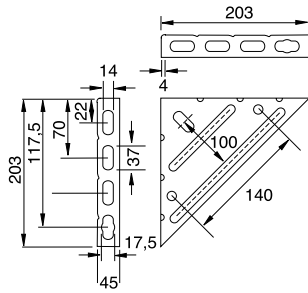
Art.Nr.	KG /100	
KON150	88.2	15





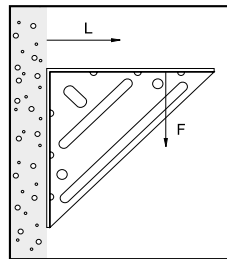
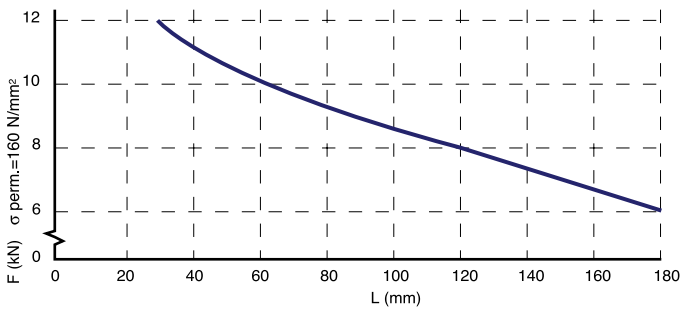
Unistrut angle bracket KON200

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009



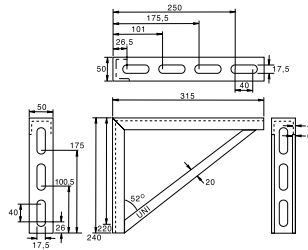
KON200

Art.Nr.	KG /100	
KON200	131.1	1



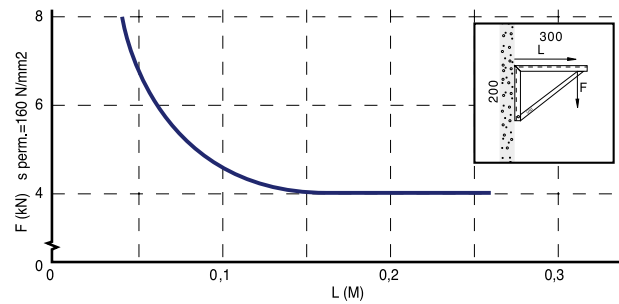
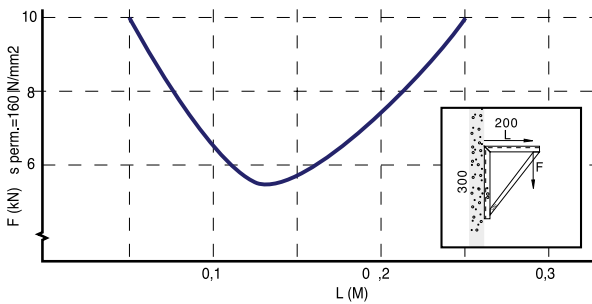
Heavy duty angle brackets KON300-200

Material : Steel S235
Finish : Hot dip galvanised - EN ISO 1461: 2009



KON300-200

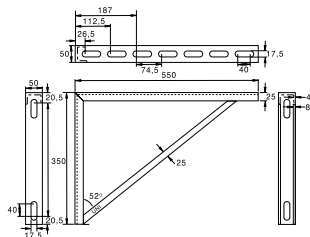
Art.Nr.	KG /100	
KON300200	261.8	1



Cantilever Arms & Angle Brackets

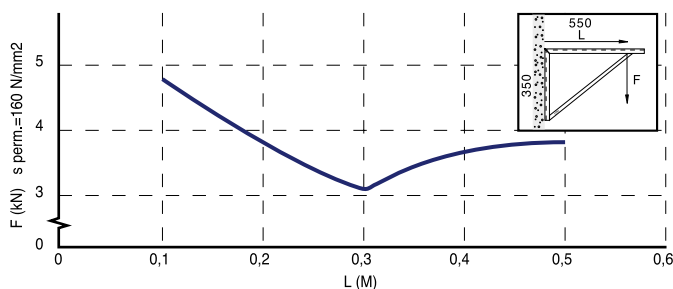
Heavy duty angle brackets KON550-350

Material : Steel S235
 Finish : Hot dip galvanised - EN ISO 1461: 2009



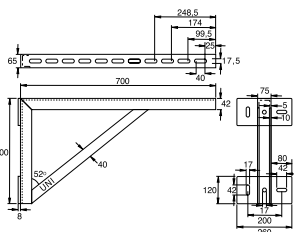
KON550-350

Art.Nr.	KG /100	
KON550350	448.4	1



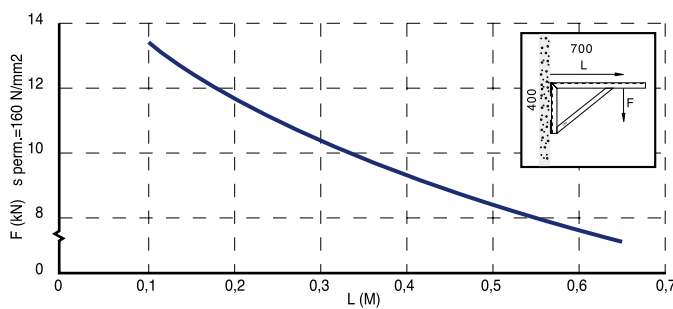
Heavy duty angle brackets KON700-400

Material : Steel S235
 Finish : Hot dip galvanised - EN ISO 1461: 2009



KON700-400

Art.Nr.	KG /100	
KON700400	1612.8	1



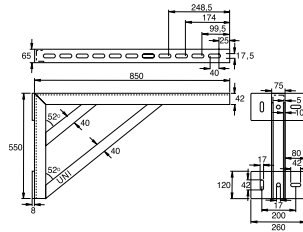
Cantilever Arms & Angle Brackets



Heavy duty angle brackets KON850-550

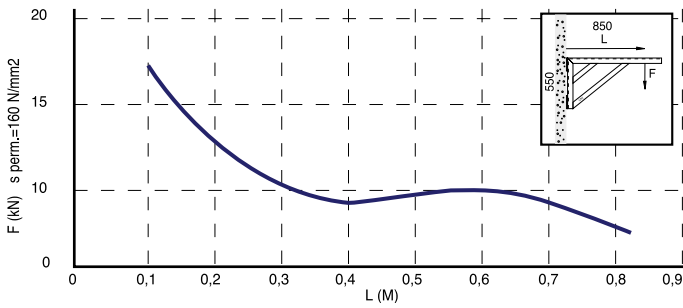
Material : Steel S235

Finish : Hot dip galvanised - EN ISO 1461: 2009



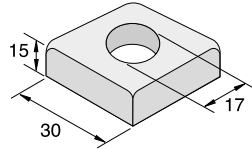
KON850-550

Art.Nr.	KG /100	
KON850550	2235.1	1



**Distance washer for KON brackets
HBKON**

Material : Malleable Iron - EN1562-1997
Finish : Hot dip galvanised - EN ISO 1461: 2009

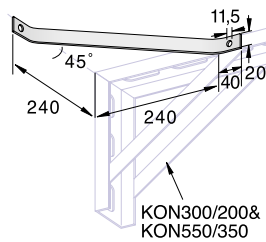


HBKON

Art.Nr.	KG /100	
HBKON	10	25

Brace for brackets type KON300/200 & KON 550/350 - KON BM

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009

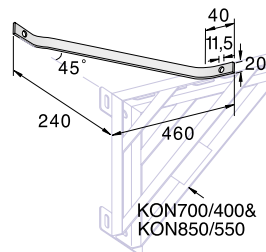


KON BM

Art.Nr.	KG /100	
2851S30203	35.7	1

Brace for brackets type KON700/400 & KON 850/550 - KON BH

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 2009



KON BH

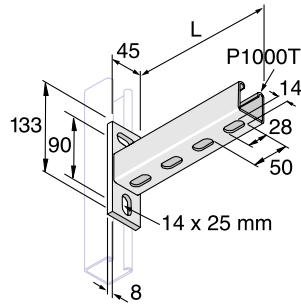
Art.Nr.	KG /100	
2851S70403	66.6	1

Cantilever Arms & Angle Brackets



Unistrut cantilever arm P1000T stainless steel

Material : Stainless Steel - 1.4404 - EN 10088-2



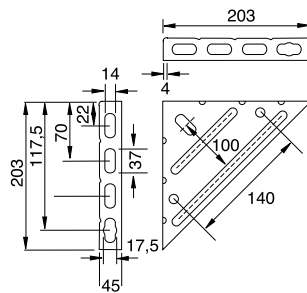
P2663T-SS

Art.Nr.	L mm	KG /100
2663T150SP	150	79.1
2663T300SP	300	120.4
2663T450SP	450	160.9
2663T600SP	600	200
2663T750SP	750	239.9

Art.nr.	P	IBMB	L (mm)	F_1	F_2	F_3
P2663T150S	4	0,96	150	6,12 kN	3,06 kN	2,04 kN
P2663T300S	4	1,30	300	3,06 kN	1,53 kN	1,02 kN
P2663T450S	4	1,74	450	2,04 kN	1,02 kN	0,68 kN
P2663T600S	4	2,06	600	1,53 kN	0,76 kN	0,50 kN
P2663T750S	4	2,30	750	1,22 kN	0,61 kN	0,40 kN

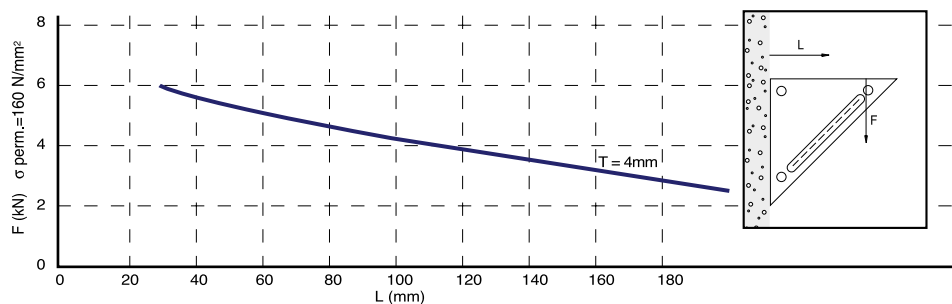
Unistrut angle bracket

Material : Stainless Steel - 1.4301



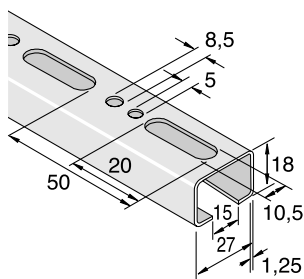
KON200SS

Art.Nr.	KG /100
1352452	99.5



UNI0 channel 27 x 18 mm

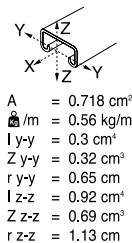
Material : Steel DX51D + Z275 - EN 10327



UNI0

Art.Nr.	L mm		KG /100
UNI0	2000	10	118
UNI0/3	3000	10	177
UNI0/6	6000	10	354

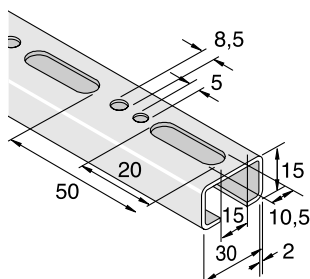
L(mm)	F		$\delta = \frac{1}{200}L$ F(kN)	$\delta = \frac{1}{360}L$ F(kN)
	Fmax(kN)	$\delta_{max}(mm)$		
250	1.432	0.46	-	-
500	0.714	1.85	-	0.536
750	0.473	4.16	0.425	0.235
1000	0.352	7.39	0.235	0.129
1250	0.279	11.54	0.146	0.080
1500	0.231	16.70	0.099	0.051
1750	0.193	22.61	0.068	0.033
2000	0.168	29.64	0.048	0.022



Light Duty Framing System

UNI1 channel 30 x 15 mm

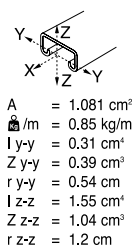
Material : Steel DX51D + Z275 - EN 10327



UNI1

Art.Nr.	L mm		KG /100
UNI1	2000	10	184
UNI1/3	3000	10	276
UNI1/6	6000	10	552

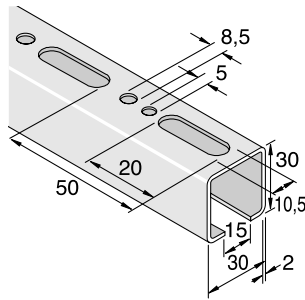
L(mm)	F		$\delta = \frac{1}{200}L$ F(kN)	$\delta = \frac{1}{360}L$ F(kN)
	Fmax(kN)	$\delta_{max}(mm)$		
250	1.428	0.46	-	-
500	0.868	2.18	-	0.552
750	0.576	4.91	0.437	0.241
1000	0.427	8.71	0.240	0.129
1250	0.339	13.65	0.149	0.079
1500	0.278	19.16	0.098	0.050
1750	0.235	26.73	0.067	0.030
2000	0.200	34.72	0.044	0.018





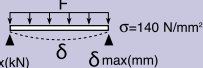
UNI2 channel 30 x 30 mm

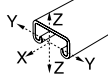
Material : Steel DX51D + Z275 - EN 10327



UNI2

Art.Nr.	L mm		KG /100
UNI2	2000	10	280
UNI2/3	3000	10	420
UNI2/6	6000	10	840

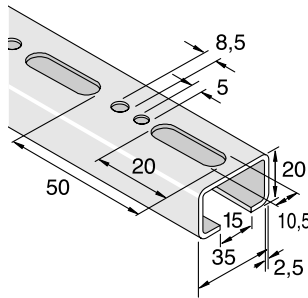
L(mm)		$\sigma=140 \text{ N/mm}^2$	$\delta=1/200L$	$\delta=1/360L$
	Fmax(kN)	$\delta_{max}(mm)$	F(kN)	F(kN)
250	5.240	0.28	-	-
500	2.615	1.11	-	-
750	1.738	2.50	-	1.448
1000	1.297	4.44	-	0.806
1250	1.031	6.93	0.925	0.508
1500	0.852	9.97	0.633	0.345
1750	0.725	13.61	0.457	0.243
2000	0.628	17.74	0.340	0.178



$A = 1.68 \text{ cm}^2$
 $\lambda/m = 1.32 \text{ kg/m}$
 $I_{y-y} = 1.83 \text{ cm}^4$
 $Z_{y-y} = 1.17 \text{ cm}^3$
 $r_{y-y} = 1.04 \text{ cm}$
 $I_{z-z} = 2.73 \text{ cm}^4$
 $Z_{z-z} = 1.82 \text{ cm}^3$
 $r_{z-z} = 1.28 \text{ cm}$

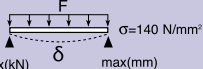
UNI3 channel 35 x 20 mm

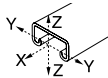
Material : Steel DX51D + Z275 - EN 10327



UNI3

Art.Nr.	L mm		KG /100
UNI3	2000	10	280
UNI3/6	6000	10	840

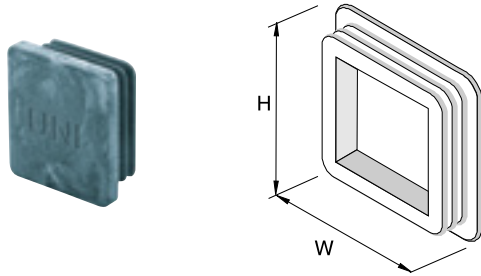
L(mm)		$\sigma=140 \text{ N/mm}^2$	$\delta=1/200L$	$\delta=1/360L$
	Fmax(kN)	max(mm)	F(kN)	F(kN)
250	3.671	0.41	-	-
500	1.831	1.64	-	1.550
750	1.214	3.68	-	0.683
1000	0.903	6.53	0.686	0.375
1250	0.716	10.20	0.430	0.233
1500	0.591	14.70	0.290	0.153
1750	0.501	20.02	0.205	0.103
2000	0.432	26.17	0.146	0.070




$A = 1.72 \text{ cm}^2$
 $\lambda/m = 2.5 \text{ kg/m}$
 $I_{y-y} = 0.87 \text{ cm}^4$
 $Z_{y-y} = 0.82 \text{ cm}^3$
 $r_{y-y} = 0.71 \text{ cm}$
 $I_{z-z} = 3.15 \text{ cm}^4$
 $Z_{z-z} = 1.85 \text{ cm}^3$
 $r_{z-z} = 1.36 \text{ cm}$

End cap for UNI channel

Material : PP - black

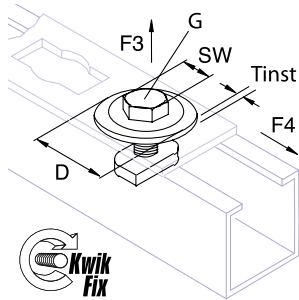
**PVCUNI**

Art.Nr.	W mm	H mm	KG /100	
1401001	27	18	0.4	100
PVCUNI1	30	15	0.3	100
PVCUNI2	30	30	0.6	100
PVCUNI3	35	20	0.4	100



Kwikstrut L channel nut for UNI channel

Material : Nut: DD11 - EN 10111
 Washer: DX51 - EN 10327
 Screw: 8.8 - DIN933; Plastic part PP
 Finish : Electro zinc plated - EN ISO 12329

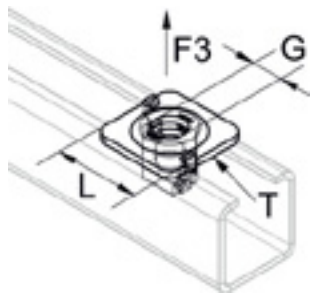
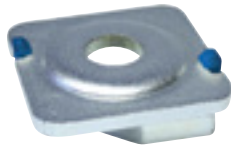


QLFN


Art.Nr.	D mm	G	T mm	F3 kN	F4 kN	Tinst Nm	SW mm	KG /100	
1370810	30	M8	2.5	1.5	0.6	10	13	3.5	100

Kwikstrut L channel nut with square washer for UNI channels

Material : Nut: DD11 - EN 10111
 Washer: DX51 - EN 10327; Plastic part PP
 Finish : Electro zinc plated - EN ISO 12329

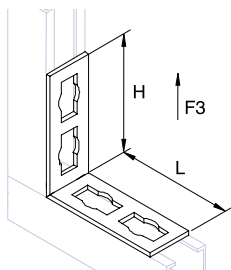


QLRN


Art.Nr.	G	L mm	W mm	T mm	F3 kN	KG /100	
1370640	M6	30	30	2.5	1.5	2.7	100
1370840	M8	30	30	2.5	1.5	2.6	100
1371040	M10	30	30	2.5	1.5	2.4	100

Kwikstrut L flat angle fitting 90°

Material : Steel DD11 - DIN EN 10111
Finish : Electro zinc plated - DIN EN 12329

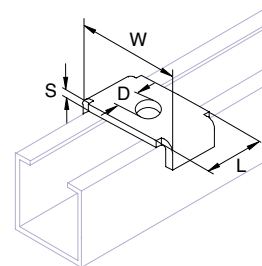
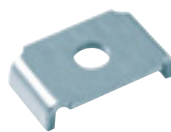


OLFFA


Art.Nr.	L mm	H mm	F3 kN	Nut qty	KG /100	
1379025	52	52	0.6	2	4.9	25
1379035	90	52	0.6	3	6.4	25
1379045	90	90	1	4	8.6	25

U-shaped washer for UNI channel

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329

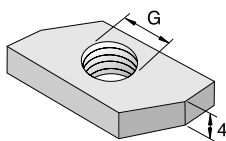


H30


Art.Nr.	L mm	W mm	T mm	KG /100	
1373010	22	35	2.5	1.1	100
1373011	22	35	2.5	1.5	100

Channel nut for UNI channels

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329

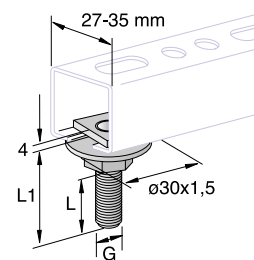


CNM


Art.Nr.	G	KG /100	
3910600	M6	0.9	100
3910063	M8	0.8	100
3910064	M10	0.1	100

Stud nut for UNI channels

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329



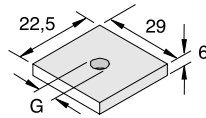
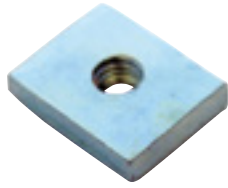
TBU

Art.Nr.	G	L mm	L1 mm	KG /100	
3910018	M8	20	6	3.2	100
3910019	M8	25	11	3	100
3910020	M8	30	16	3.1	100
3910021	M8	40	26	3.4	100
3910022	M8	50	36	1.5	100
3910023	M8	60	46	1.5	100
3910025	M8	80	66	4.7	100
3910027	M8	100	86	8.6	50
3910031	M10	30	15	4.1	100
3910032	M10	40	25	5	100
3910033	M10	50	35	5.1	100
3910034	M10	60	45	5.6	100
3910036	M10	80	65	6.8	50
3910038	M10	100	85	7.6	50



UNI channel nuts

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329

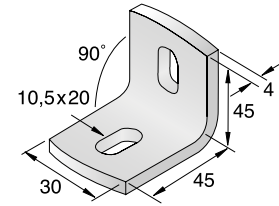


CNH

Art.Nr.	G	KG /100	
1486276	M6	2.8	100
1488276	M8	2.7	100
1481276	M10	2.6	100

UNI angle fitting 90° - UNI L90

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329

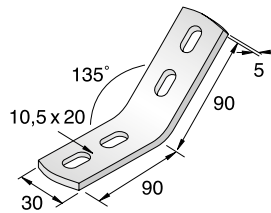


UNI L90

Art.Nr.	KG /100	
3910090	11.1	25

UNI angle fitting 45° - UNI LH45

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329

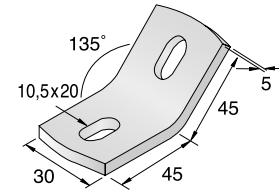


UNI LH45

Art.Nr.	KG /100	
3910093	21.2	25

UNI angle fitting 45° - UNI L45

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329

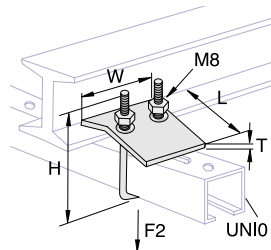


UNI L45

Art.Nr.	KG /100	
3910091	11.1	25

Beamclamp for UNI0 channel

Material : Plate: Steel DD11 - EN 10111; U-Bolt S235JRG - EN 10277
Finish : Electro zinc plated - DIN EN 12329

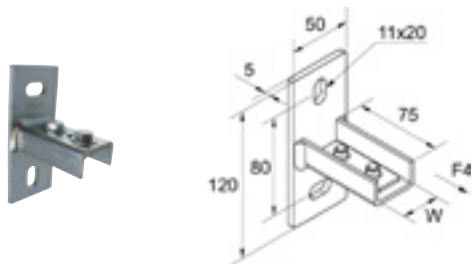


KP-UNI0

Art.Nr.	L mm	W mm	H mm	T mm	F2 kN	KG /100	
1402782	65	60	60	6	2	16.7	50

UNI channel foot brackets SF-SUNI

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329

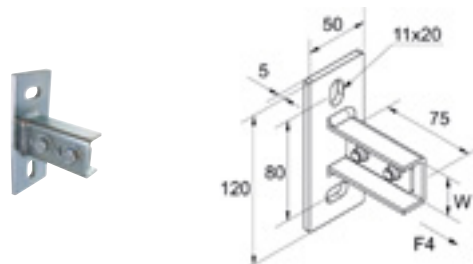


SF-SUNI

Art.Nr.	W mm	KG /100	
3910071	30	32	10

UNI channel foot brackets SF-LUNI

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329



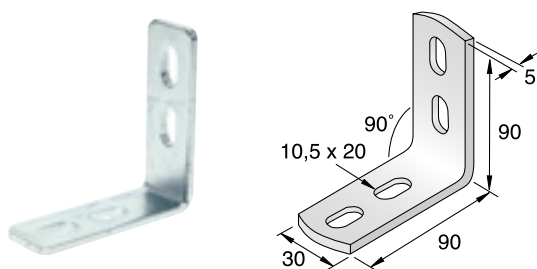
SF-LUNI

Art.Nr.	W mm	KG /100	
3910072	30	33	10

Light Duty Framing System

UNI angle fitting 90° - UNI LH90

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329

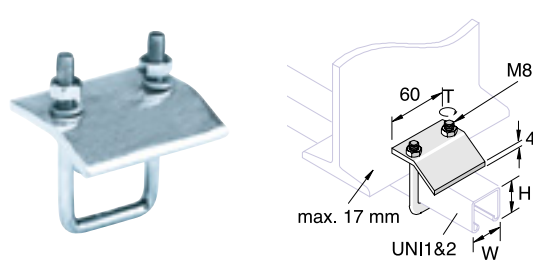


UNI LH90


Art.Nr.	KG /100	
3910092	20.3	25

Beamclamp for UNI1,2&3 channel

Material : Plate: Steel DD11 - EN 10111; U-Bolt S235JRG - EN 10277
Finish : Electro zinc plated - DIN EN 12329



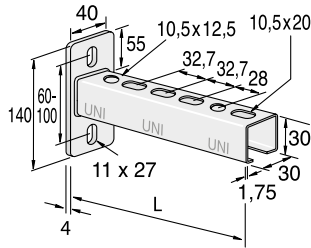
KP-UNI1&2

Art.Nr.	W mm	H mm	KG /100	
1373088	30	15-30	11.7	25






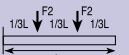

UNI cantilever arm UNI-KON

Material : Steel DD11 - EN 10111
 Finish : Electro zinc plated - DIN EN 12329



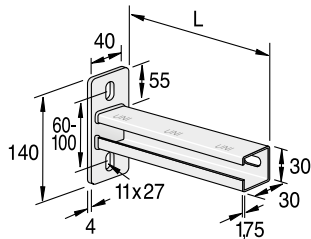
UNI-KON

Art.Nr.	L mm		KG /100
UNIKON180	180	10	40.5
UNIKON240	240	10	47.4
UNIKON300	300	10	53.4
UNIKON360	360	1	60.1
UNIKON420	420	1	66
UNIKON540	540	1	78.8
UNIKON660	660	1	91.5
UNIKON780	780	1	104.1

L (mm)				
180	1,25 kN	0,62 kN	0,62 kN	0,41 kN
240	0,92 kN	0,46 kN	0,46 kN	0,31 kN
300	0,75 kN	0,37 kN	0,37 kN	0,25 kN
360	0,62 kN	0,31 kN	0,31 kN	0,20 kN
420	0,53 kN	0,26 kN	0,26 kN	0,17 kN
540	0,41 kN	0,20 kN	0,20 kN	0,13 kN
660	0,34 kN	0,17 kN	0,17 kN	0,11 kN
780	0,28 kN	0,14 kN	0,14 kN	0,09 kN





Uni cantilever arm UNI-KONS

Material : Steel DD11 - EN 10111
 Finish : Electro zinc plated - DIN EN 12329



UNI-KONS

Art.Nr.	L mm		KG /100
UNIKON180S	180	10	38
UNIKON240S	240	10	44

L (mm)				
180	1,25 kN	0,62 kN	0,62 kN	0,41 kN
240	0,92 kN	0,46 kN	0,46 kN	0,31 kN



Pipe
Support

4 Pipe Clips



Light Duty Pipe Clip
Page 138



Medium Duty Pipe Clip
Page 142



Heavy Duty Pipe Clip
Page 147



Insulated Pipe Clips
Page 154



Roof Drainage Pipe Clip
Page 162



Sprinkler Hangers
Page 164



Fixings for Pipe Clips
Page 167



Sidebeam Attachments
Page 169



U-Bolts & Channel Pipe Clip
Page 171



Stainless Steel Pipe Clips
Page 176



5 Fix Points & Slides



Adjustable Angle Fittings Slide Guides
Page 182



Slide Guide Type S Slide Guides
Page 184



Slide Guide Type M Slide Guides
Page 186



Slide Guide Type H Slide Guides
Page 187



Slide Guide Type Quadro Slide Guides
Page 188



Stainless Steel Slide Guide
Type M Slide Guides
Page 189



Fix Point Herkules Fix Points
Page 190



Vertical Fix Point Fix Points
Page 192



Fix Point for Cooling pipes Fix Points
Page 193

6 Ventilation & Airconditioning Supports



Duct Bracket
Page 195



Duct Clamps
Page 197



Accessories
Page 200

7 Sound Insulation & Nameplate System



Rubber Lining
Page 202



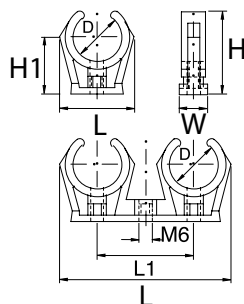
Rubber Anti Vibration Parts
Page 203




Nameplate System
Page 204

Plastic snap clip

Material : Polypropylene with Brass-thread insert M6
 Temperature durability: -40°C bis +120°C



PP

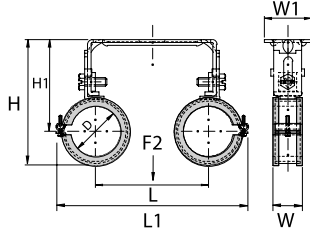
Art.Nr.	Type	D mm	L mm	W mm	H mm	H1 mm	KG /100	
1120816	single	8	15	17	19	14	0.3	100
1121016	single	10	18	17	21	15	0.3	100
1121216	single	12	22	17	23	16	0.4	100
1121516	single	14-15	25	17	27	18	0.5	100
1121816	single	16-18	29	17	33	23	0.6	100
1122216	single	20-22	32	17	38	26	0.7	100
1122416	single	24	38	17	42	30	0.8	100
1122815	single	28	43	17	48	32	1.1	100
1123515	single	35	49	17	52	36	1.2	100
1124215	single	42	62	17	60	39	1.7	100
1120826	double	8	40	17	19	14	0.5	100
1121026	double	10	47	17	21	15	0.5	100
1121226	double	12	55	17	23	16	0.8	100
1121526	double	14-15	60	17	27	18	0.9	100
1121826	double	16-18	67	17	33	23	1.2	100
1122226	double	20-22	74	17	38	26	1.4	100
1122826	double	28	96	17	50	32	2.1	50




Double adjustable pipe clip with insulation

Material : Fixing: Steel DD11 - EN 10111, Pipe clip: DX51D+Z275 - EN 10327
 EPDM/SBR black; SHORE A = 45° ±5°
 Temperature durability: -40°C bis +100°C

Finish : Electro zinc plated - EN ISO 12329

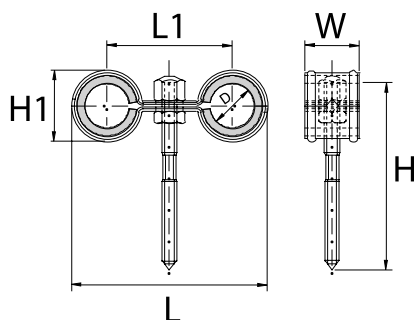


DC


Art.Nr.	D Inch	D mm	L mm	L1 mm	W mm	W1 mm	H mm	H1 mm	F2 kN	KG /100	
1181255	-	12	85	55	21.5	20	60-73	47-60	0.8	12.1	50
1181276	-	12	115	85	21.5	30	65-82	52-69	0.6	15.2	50
1181555	-	15	85	55	21.5	20	63-76	50-63	0.8	12.4	50
1181576	-	15	116	85	21.5	30	68-85	55-72	0.6	14.5	50
1181855	3/8	18	89	55	21.5	20	66-79	53-66	0.8	12.8	50
1181876	3/8	18	121	85	21.5	30	71-88	58-75	0.6	14.9	50
1182255	1/2	22	93	55	21.5	20	70-83	57-70	0.8	13.0	50
1182276	1/2	22	124	85	21.5	30	75-92	62-79	0.6	16.4	50
1182876	3/4	28	130	85	21.5	30	81-98	68-85	0.6	17.0	50
1183476	1	35	138	85	21.5	30	89-106	75-92	0.6	18.9	25
1184276	1 1/4	42	146	85	21.5	30	96-113	82-99	0.6	22.4	25
1184876	1 1/2	48	156	85	21.5	30	102-119	88-105	0.6	23.6	25

Light double pipe clip with insulation

Material : Steel DD11 - EN 10111
Foamrubber, white
Temperature durability: -40°C bis +80°C
Finish : Electro zinc plated - EN ISO 12329



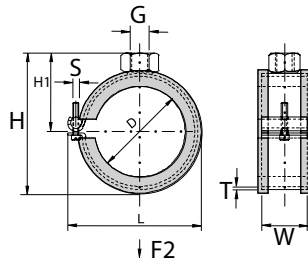
DCWT

Art.Nr.	D Inch	D mm	L mm	L1 mm	W mm	H mm	H1 mm	KG /100	
1211203	-	12	85	59	26	-	25	6.1	50
1211213	-	12	85	59	26	90	25	9.9	50
1211223	-	12	85	59	26	120	25	10.8	50
1211503	-	15	88	60	26	-	27	6.8	50
1211513	-	15	88	60	26	90	27	10.6	50
1211523	-	15	88	60	26	120	27	10.8	50
1211803	3/8	18	90	61	26	-	30	7	50
1211813	3/8	18	90	61	26	90	30	10.9	50
1211823	3/8	18	90	61	26	120	30	11.8	50
1212203	1/2	22	94	60	26	-	34	7.4	50
1212213	1/2	22	94	60	26	90	34	10.7	50
1212223	1/2	22	94	60	26	120	34	11.6	50
1212803	3/4	28	100	60	26	-	40	11.6	50
1212813	3/4	28	100	60	26	90	40	12.5	50
1212823	3/4	28	100	60	26	120	40	12.5	50
1213403	1	35	110	63	26	-	45	9.2	50
1213413	1	35	110	63	26	90	45	13.1	50
1213423	1	35	110	63	26	120	45	14	50



Light 1 screw pipe clip with sound insulation

Material : Steel DX51+Z275 - EN 10327
 EPDM/SBR black; SHORE A = 45° ± 5°
 Temperature durability: -40°C bis +100°C
 Sound insulation value on average 17 dB(A)



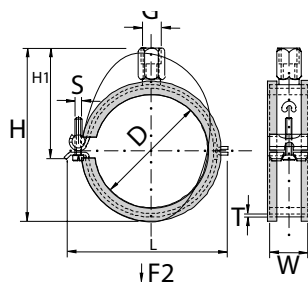
Mini

Art.Nr.	D Inch	D mm	G	L mm	W mm	H mm	H1 mm	T mm	S	F2 kN	Fz RAL kN	KG /100	
1221086		10	M8	30	18	28	15	0.8	M4	0.6	0.28	2.0	100
1221286		12	M8	30	18	28	15	0.8	M4	0.6	0.28	2.1	100
1221586		15	M8	32	18	31	16	0.8	M4	0.6	0.28	2.2	100
1221686		16	M8	32	18	31	16	0.8	M4	0.6	0.28	2.3	100
1221886	3/8	18	M8	36	18	35	18	0.8	M4	0.6	0.28	2.4	100
1222286	1/2	22	M8	41	18	40	20	1.0	M4	1.0	0.28	2.9	100
1222886	3/4	28	M8	47	18	46	25	1.0	M4	1.0	0.28	3.3	100
1223586	1	35	M8	54	18	54	29	1.3	M4	1.2	0.28	4.2	100
1224286	1 1/4	42	M8	64	18	60	33	1.3	M4	1.2	0.28	4.8	100
1224886	1 1/2	48	M8	69	18	65	36	1.3	M4	1.2	0.28	5.4	100

1 screw pipe clip with sound insulation

Material : Steel DC01 - EN 10130
 EPDM/SBR black; SHORE A = 45° ± 5°
 Temperature durability: -40°C bis +100°C
 Sound insulation value on average 17 dB(A)

Finish : Electro zinc plated - EN ISO 12329



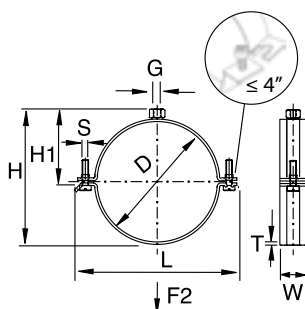
Perfect-1S

Art.Nr.	D Inch	D mm	G	L mm	W mm	H mm	H1 mm	T mm	S	F2 kN	Fz RAL kN	KG /100	
1191590	3/8	15-19	M8	45	20	46	32	1	M5	0.8	0.3	3.9	100
1192280	1/2	21-22	M8	50	20	51	34	1	M5	0.8	0.3	4.4	100
1192880	3/4	27-28	M8	56	20	55	37	1	M5	0.8	0.3	4.9	100
1193580	1	34-35	M8	64	20	63	40	1.3	M5	1.1	0.3	5.7	100
1194080		40-41	M8	69	20	69	43	1.3	M5	1.1	0.3	6.8	100
1194280	1 1/4	42-43	M8	71	20	70	44	1.3	M5	1.1	0.3	6.6	100
1194880	1 1/2	48-49	M8	77	20	77	48	1.3	M5	1.1	0.3	7.3	100
1195080		49-50	M8	79	20	79	49	1.3	M5	1.1	0.3	7.0	50
1195480		54-55	M8	83	20	83	51	1.3	M5	1.1	0.3	8.0	50
1195780		57-58	M8	86	20	86	53	1.3	M5	1.1	0.3	8.3	50
1196080	2	60-61	M8	89	20	89	54	1.3	M5	1.1	0.3	8.5	50


2 screw pipe clip without sound insulation

Material : Steel DX51D+Z275 - EN 10327 (<= 54/57mm) + DD11 - EN 10111

Finish : Electro zinc plated - EN ISO 12329 (> 57mm)



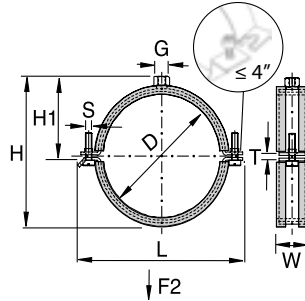
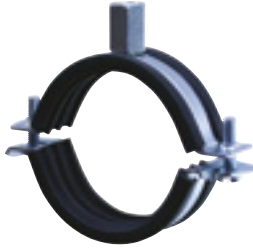
Standard N

Art.Nr.	D Inch	D mm	G	L mm	W mm	H mm	H1 mm	T mm	S	F2 kN	KG /100	
1256018	3/8	17-20	M8/M10	51	20	29	18	1	M5	0.6	3.7	100
1256022	1/2	21-24	M8/M10	52	20	33	19	1	M5	0.6	4.2	100
1256028	3/4	25-28	M8/M10	59	20	39	22	1	M5	0.6	4.1	100
1256035	1	32-35	M8/M10	66	20	45	26	1	M5	0.6	4.4	100
1256040		38-41	M8/M10	72	20	49	27	1	M5	0.6	5.0	100
1256042	1 1/4	40-43	M8/M10	75	20	53	30	1	M5	0.6	4.8	50
1256048	1 1/2	48-51	M8/M10	82	20	59	33	1	M5	0.6	5.5	50
1256054		54-57	M8/M10	89	20	66	37	1	M5	1.4	5.3	50
1256060	2	59-63	M8/M10	94	20	72	39	1.5	M5	1.4	7.7	50
1256070		67-72	M8/M10	109	25	87	49	1.5	M6	1.9	10.5	50
1256076	2 1/2	71-77	M8/M10	116	25	93	52	1.5	M6	1.9	11.3	50
1256089	3	85-90	M8/M10	127	25	101	57	2	M6	2.3	14.6	50
1256114	4	107-114	M8/M10	155	25	129	77	2	M6	2.3	17.5	50
1256125		123-125	M8/M10	171	25	150	84	2.5	M8	3.0	27.0	25
1256139	5	139-146	M8/M10	195	25	168	92	2.5	M8	3.0	34.3	25
1256160		158-162	M8/M10	206	25	186	102	2.5	M8	3.0	32.4	25
1256168	6	167-175	M8/M10	224	25	203	108	2.5	M8	3.0	39.0	25
1256200		198-202	M8/M10	246	25	226	122	2.5	M8	3.0	38.7	10
1256219	8	218-226	M8/M10	275	25	250	135	2.5	M8	3.0	49.0	25
1256250		248-252	M8/M10	296	25	276	147	2.5	M8	3.0	46.3	10




2 screw pipe clip with sound insulation

Material : Steel DX51D+Z275 - EN 10327 (<= 1 1/2") + DD11 - EN 10111
 EPDM/SBR black; SHORE A = 45° ± 5°
 Temperature durability: -40°C bis +100°C
 Sound insulation value on average 17 dB(A)
 Finish : Electro zinc plated - EN ISO 12329 (> 1 1/2")



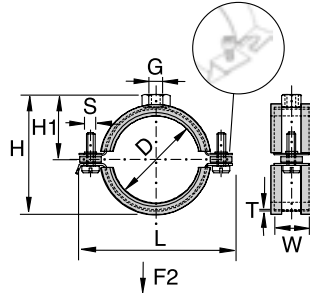
Standard R

Art.Nr.	D Inch	D mm	G	L mm	W mm	H mm	H1 mm	T mm	S	F2 kN	Fz RAL kN	KG /100	
1257015		14-17	M8/M10	55	20	34	20	1.0	M5	0.6	0.5	4.4	100
1257018	3/8	17-20	M8/M10	58	20	36	22	1.0	M5	0.6	0.5	4.5	100
1257022	1/2	21-24	M8/M10	59	20	40	23	1.0	M5	0.6	0.5	5.0	100
1257028	3/4	27-30	M8/M10	66	20	46	26	1.0	M5	0.6	0.5	5.5	100
1257035	1	33-36	M8/M10	73	20	52	30	1.0	M5	0.6	0.5	8.5	100
1257040		38-41	M8/M10	79	20	56	31	1.0	M5	0.6	0.5	6.7	100
1257042	1 1/4	42-45	M8/M10	82	20	60	34	1.0	M5	0.6	0.5	6.6	50
1257048	1 1/2	48-51	M8/M10	89	20	66	37	1.0	M5	0.6	0.5	7.3	50
1257054		54-57	M8/M10	98	20	73	41	1.5	M5	1.4	1.0	10.0	50
1257060	2	59-62	M8/M10	101	20	79	43	1.5	M5	1.4	1.0	10.0	50
1257070		67-72	M8/M10	116	25	94	53	1.5	M6	1.9	1.1	14.4	50
1257076	2 1/2	72-78	M8/M10	123	25	100	56	1.5	M6	1.9	1.1	15.1	50
1257083		80-85	M8/M10	134	25	116	75	2.0	M6	2.3	-	19.9	50
1257089	3	84-89	M8/M10	134	25	108	61	2.0	M6	2.3	1.4	20.5	50
1257114	4	109-114	M8/M10	162	25	136	81	2.0	M6	2.3	1.4	24.2	50
1257139	5	133-141	M8/M10	195	25	170	92	2.5	M8	3.0	-	36.1	25
1257168	6	160-170	M8/M10	224	25	205	108	2.5	M8	3.0	-	41.0	25
1257200		198-202	M8/M10	250	25	225	122	2.5	M8	3.0	-	41.0	25
1257219	8	210-221	M8/M10	275	25	252	135	2.5	M8	3.0	-	51.0	25


Pipe Clips

2 screw pipe clip with sound insulation for plastic pipes

Material : Steel DX51D+Z275 - EN 10327 (<=50mm) + DD11 - EN 10111
 EPDM/SBR with felt; SHORE A = 45° ±5°
 Temperature durability: -40°C bis +100°C
 Sound insulation value on average 17 dB(A)
 Finish : Electro zinc plated - EN ISO 12329 (> 50mm)



Standard P

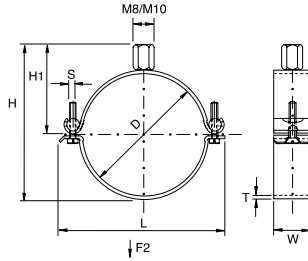
Art.Nr.	Type	D mm	G	L mm	W mm	H mm	H1 mm	T mm	S	F2 kN	KG /100	
1330166	Standard	16	M8/M10	58	20	36	21	1	M5	0.6	3.7	100
1330206	Standard	20	M8/M10	62	20	40	24	1	M5	0.6	4.9	100
1330256	Standard	25	M8/M10	66	20	46	27	1	M5	0.6	5.5	100
1330326	Standard	32	M8/M10	72	20	53	30	1	M5	0.6	6.2	100
1330406	Standard	40	M8/M10	82	20	60	34	1	M5	0.6	7.0	100
1330506	Standard	50	M8/M10	89	20	67	39	1	M5	0.6	7.3	50
1330636	Standard	63	M8/M10	101	20	83	47	1.5	M5	1.45	13.9	50
1330786	Standard	75/78	M8/M10	119	25	110	63	2.5	M6	1.9	15.7	50
1330906	Standard	90	M8/M10	136	25	124	71	2.5	M6	1.9	20.2	50
1331106	Standard	110	M8/M10	151	25	141	79	2.5	M6	1.9	24.7	50
1331256	Perfect	125	M8/M10	165	25	158	87	2.5	M6	1.9	31.2	50
1331356	Perfect	135	M8/M10	172	25	163	89	2.5	M6	1.9	33.2	50
1331606	Perfect	160	M8/M10	205	25	190	108	2.5	M6	1.9	38.7	50

Pipe Clips



2 screw pipe clip

Material : Steel DD11 - EN 10111
 Finish : Electro zinc plated - EN ISO 12329
 Delta Tone (DT) - Corrosion resistance - EN ISO 9227



Perfect N

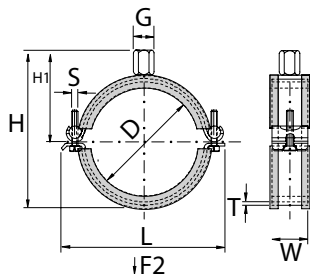
Art.Nr.	Finish	D Inch	D mm	G	L mm	W mm	H mm	H1 mm	T mm	S	F2 kN	KG /100	
1280183	DT	3/8	18-20	M8/M10	44	20	39	32	2	M5	0.8	6.5	100
1280223	DT	1/2	21-25	M8/M10	46	20	42	30	2	M5	0.8	6.4	100
1280283	DT	3/4	27-32	M8/M10	56	20	47	33	2	M5	0.8	7.2	100
1280353	DT	1	34-38	M8/M10	61	20	55	36	2	M5	0.8	7.9	100
1280403	DT		39-43	M8/M10	65	20	60	38	2	M5	0.8	8.3	100
1280423	DT	1 1/4	43-46	M8/M10	68	20	64	40	2	M5	0.8	8.6	100
1280483	DT	1 1/2	48-53	M8/M10	77	20	70	43	2	M5	0.8	9.7	100
1280603	DT	2	60-65	M8/M10	89	20	82	49	2	M5	0.8	10.6	50
1280683	DT		68-73	M8/M10	105	25	79	59	2.5	M6	1.9	16.4	50
1280723	DT	2 1/2	73-77	M8/M10	107	25	103	62	2.5	M6	1.9	17.0	50
1280863	DT	3	84-90	M8/M10	121	25	105	72	2.5	M6	1.9	20.9	50
1280973	DT		97-103	M8/M10	142	25	138	78	2.5	M6	1.9	20.2	50
1281063	DT		106-111	M8/M10	143	25	139	79	2.5	M6	1.9	22.0	50
1281103	DT	4	109-114	M8/M10	145	25	140	79	2.5	M6	1.9	22.5	50
1281253	DT		125-130	M8/M10	163	25	156	87	2.5	M6	1.9	24.5	25
1281393	DT	5	139-145	M8/M10	173	25	169	94	2.5	M6	1.9	28.6	25
1281683	DT	6	160-168	M8/M10	193	25	191	105	2.5	M6	1.9	29.7	25

Art.Nr.	Finish	D Inch	D mm	G	L mm	W mm	H mm	H1 mm	T mm	S	F2 kN	KG /100	
1280185	EZP	3/8	18-20	M8/M10	44	20	39	32	2	M5	0.8	6.2	100
1280225	EZP	1/2	21-25	M8/M10	46	20	42	30	2	M5	0.8	6.7	100
1280285	EZP	3/4	27-32	M8/M10	56	20	47	33	2	M5	0.8	7.3	100
1280355	EZP	1	34-38	M8/M10	61	20	55	36	2	M5	0.8	7.8	100
1280405	EZP	-	39-43	M8/M10	65	20	60	38	2	M5	0.8	8.4	100
1280425	EZP	1 1/4	43-46	M8/M10	68	20	64	40	2	M5	0.8	8.6	100
1280485	EZP	1 1/2	49-53	M8/M10	77	20	70	43	2	M5	0.8	9.1	100
1280605	EZP	2	61-65	M8/M10	89	20	82	49	2	M5	0.8	10.7	50
1280686	EZP	-	68-73	M8/M10	105	25	79	59	2.5	M6	1.9	16.5	50
1280726	EZP	2 1/2	73-77	M8/M10	107	25	103	62	2.5	M6	1.9	16.2	50
1280866	EZP	3	84-90	M8/M10	121	25	105	72	2.5	M6	1.9	18.3	50
1280976	EZP	-	97-103	M8/M10	142	25	138	78	2.5	M6	1.9	20.0	50
1281066	EZP	-	106-111	M8/M10	143	25	139	79	2.5	M6	1.9	22.0	50
1281106	EZP	4	109-114	M8/M10	145	25	140	79	2.5	M6	1.9	22.2	50
1281256	EZP	-	125-130	M8/M10	163	25	156	87	2.5	M6	1.9	24.7	25
1281396	EZP	5	139-145	M8/M10	173	25	169	94	2.5	M6	1.9	28.6	25
1281686	EZP	6	160-168	M8/M10	193	25	191	105	2.5	M6	1.9	30.2	25


Pipe Clips

2 screw pipe clip with sound insulation

Material : Steel DD11 - EN 10111
 EPDM/SBR black; SHORE A = 45° ± 5°
 Temperature durability: -40°C bis +100°C
 Sound insulation value on average 17 dB(A)
 Finish : Electro zinc plated - EN ISO 12329



Perfect R

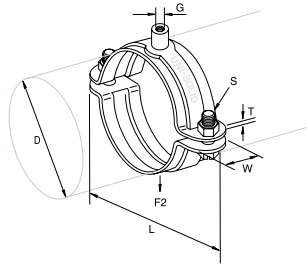
Art.Nr.	D Inch	D mm	G	L mm	W mm	H mm	H1 mm	T mm	S	F2 kN	Fz RAL kN	KG /100	
1191813	3/8	15-20	M8/M10	50	20	50	32	2	M5	0.8	1.2	7.0	100
1192213	1/2	21-25	M8/M10	58	20	55	35	2	M5	0.8	1.2	8.0	100
1192813	3/4	26-31	M8/M10	62	20	61	38	2	M5	0.8	1.2	8.4	100
1193513	1	32-36	M8/M10	71	20	67	42	2	M5	0.8	1.2	9.1	100
1194213	1 1/4	42-46	M8/M10	79	20	76	46	2	M5	0.8	1.2	10.3	100
1194813	1 1/2	46-50	M8/M10	80	20	81	49	2	M5	0.8	1.2	10.8	100
1195413		50-54	M8/M10	87	20	84	53	2	M5	0.8	1.2	12.2	50
1196013	2	56-60	M8/M10	95	20	90	55	2	M5	0.8	1.2	12.3	50
1196638		63-68	M8/M10	107	25	101	60	2.5	M6	1.9	1.8	20.6	50
1196688		68-73	M8/M10	110	25	107	63	2.5	M6	1.9	1.8	21.5	50
1190758	2 1/2	75-80	M8/M10	116	25	115	66	2.5	M6	1.9	1.8	22.8	50
1190808		80-85	M8/M10	122	25	120	68	2.5	M6	1.9	-	23.8	50
1190848		84-89	M8/M10	126	25	124	70	2.5	M6	1.9	1.8	24.5	50
1190888	3	88-92	M8/M10	129	25	130	72	2.5	M6	1.9	1.8	25.3	50
1190978		97-102	M8/M10	140	25	138	77	2.5	M6	1.9	1.8	28.0	50
1191068		106-111	M8/M10	152	25	150	83	2.5	M6	1.9	1.8	31.7	50
1191098		109-114	M8/M10	153	25	152	84	2.5	M6	1.9	1.8	29.6	50
1191138	4	113-119	M8/M10	154	25	154	86	2.5	M6	1.9	1.8	29.7	50
1191228		122-127	M8/M10	164	25	163	90	2.5	M6	1.9	1.8	31.7	50
1191318		131-136	M8/M10	175	25	193	94	2.5	M6	1.9	1.8	36.0	25
1191378	5	137-142	M8/M10	181	25	176	97	2.5	M6	1.9	1.8	35.0	25
1191588		158-163	M8/M10	195	25	202	108	2.5	M6	1.9	1.8	40.7	25
1191648	6	164-168	M8/M10	195	25	202	108	2.5	M6	1.9	1.8	40.7	25

Pipe Clips



Heavy Duty 2 screw pipe clip

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329

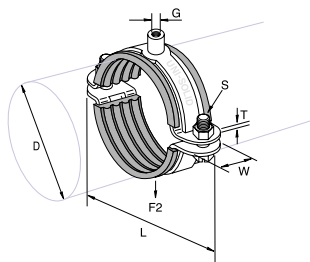


Solid N


Art.Nr.	D Inch	D mm	G	L mm	W mm	T mm	S	F2 kN	Fz RAL kN	FM	VdS	KG /100	
UNI-N00	3/8	15-19	M8/M10	57	25	2.5	M6	2.5	1.8			9	50
UNI-N01	1/2	20-24	M8/M10	62	25	2.5	M6	2.5	1.8		y	14.5	50
UNI-N02	3/4	25-30	M8/M10	68	25	2.5	M6	2.5	1.8	y	y	15.6	50
UNI-N03	1	31-35	M8/M10	75	30	2.5	M6	4	2.3	y	y	14.7	50
UNI-N04		36-41	M8/M10	81	30	2.5	M6	4	2.3		y	15.5	50
UNI-N05	1 1/4	40-45	M8/M10	85	30	2.5	M6	4	2.3	y	y	16.2	50
UNI-N06	1 1/2	48-53	M8/M10	93	30	2.5	M6	4	2.3	y	y	18.9	50
UNI-N07		54-59	M8/M10	104	30	2.5	M6	4	2.3		y	19.2	50
UNI-N08	2	60-65	M8/M10	110	30	2.5	M6	4	2.3	y	y	20.4	50
UNI-N09		67-72	M8/M10	117	30	2.5	M6	4	2.3		y	22	50
UNI-N10	2 1/2	76-81	M10/M12	142	30	3	M8	5	3	y	y	29.7	25
UNI-N11		82-85	M10/M12	148	30	3	M8	5	3		y	32.1	25
UNI-N12	3	88-94	M10/M12	154	30	3	M8	5	3	y	y	32.3	25
UNI-N13		95-102	M10/M12	163	30	3	M8	5	3		y	34.7	25
UNI-N14		102-108	M10/M12	169	30	3	M8	5	3		y	48.7	25
UNI-N15	4	110-116	M10/M12	177	30	3	M8	5	3	y	y	38.2	25
UNI-N16		117-124	M10/M12	185	30	3	M8	5	3		y	39.9	25
UNI-N17		124-129	M10/M12	190	30	3	M8	5	3		y	40.6	25
UNI-N18		133-140	M12/M16	207	40	4	M12	8	9		y	82.6	10
UNI-N19	5	140-146	M12/M16	215	40	4	M12	8	9	y	y	84.5	10
UNI-N20		149-155	M12/M16	222	40	4	M12	8	9		y	87.7	10
UNI-N21		159-165	M12/M16	232	40	4	M12	8	9		y	91	10
UNI-N22	6	167-173	M12/M16	240	40	4	M12	8	9	y	y	95	10
UNI-N23		176-182	M12/M16	265	40	4	M12	8	9			98	10
UNI-N24		188-194	M12/M16	273	40	4	M12	8	9			102.3	10
UNI-N25		199-205	M12/M16	284	40	4	M12	9	9			107.5	10
UNI-N26		207-216	M12/M16	294	40	4	M12	9	9			110	10
UNI-N27	8	219-226	M12/M16	304	40	4	M12	9	9			115	10
UNI-N27VDS	8	219-226	M16	304	40	4	M12	9	9		y	115	10
UNI-N28		227-236	M12/M16	315	40	4	M12	9	9			117.5	10
UNI-N29		244-250	M12/M16	329	40	4	M12	9	9			124	10
UNI-N30		251-261	M12/M16	340	40	4	M12	9	9			128	10
UNI-N31	10	267-273	M12/M16	352	40	4	M12	9	9			133	10
UNI-N31VDS	10	267-273	M20	352	40	4	M12	9	9		y	133	10
UNI-N32		278-284	M12/M16	363	40	4	M12	9	9			136	10
UNI-N33		297-304	M12/M16	382	40	4	M12	9	9			145	10
UNI-N34		305-316	M12/M16	395	40	4	M12	9	9			148	10
UNI-N35	12	316-324	M16	440	50	5	M16	15				229.8	1
UNI-N36	14	348-356	M16	471	50	5	M16	15				259.8	1
UNI-N37		360-368	M16	482	50	5	M16	15				279.8	1
UNI-N38	16	399-407	M16	520	50	5	M16	15				289.8	1
UNI-N39		411-419	M16	532	70	7	M16	15				329.8	1
UNI-N40	20	500-508	M16	619	70	7	M16	15				379.8	1
UNI-N41		513-521	M16	631	70	7	M16	15				389.8	1

Heavy Duty 2 screw pipe clip

Material : Steel DD11 - EN 10111 - EPDM/SBR black; SHORE A = 45° ± 5°
 Temperature durability: -40°C bis +100°C; Sound insulation value on average 22 dB(A)
 Finish : Electro zinc plated - DIN EN 12329



Solid R

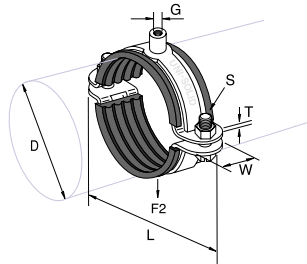
Art.Nr.	D Inch	D mm	G	L mm	W mm	T mm	S	F2 kN	Fz RAL kN	KG /100	
UNI-R01	3/8	14-18	M8/M10	62	25	2.5	M6	2.5	1.1	15.6	50
UNI-R02	1/2	19-23	M8/M10	68	25	2.5	M6	2.5	1.1	17.3	50
UNI-R03	3/4	24-28	M8/M10	75	30	2.5	M6	4	2.1	16.8	50
UNI-R04		29-33	M8/M10	81	30	2.5	M6	4	2.1	17	50
UNI-R05	1	33-37	M8/M10	85	30	2.5	M6	4	2.1	18.4	50
UNI-R06	1 1/4	40-45	M8/M10	93	30	2.5	M6	4	2.1	20.8	50
UNI-R07	1 1/2	47-52	M8/M10	104	30	2.5	M6	4	2.1	22	50
UNI-R08		53-58	M8/M10	110	30	2.5	M6	4	2.1	23.3	50
UNI-R09	2	60-65	M8/M10	117	30	2.5	M6	4	2.1	25.4	50
UNI-R10		67-72	M10/M12	142	30	3	M8	5	2.2	31	25
UNI-R11	2 1/2	73-78	M10/M12	148	30	3	M8	5	2.2	35.9	25
UNI-R12		79-85	M10/M12	154	30	3	M8	5	2.2	38.1	25
UNI-R13	3	88-93	M10/M12	163	30	3	M8	5	2.2	40.2	25
UNI-R14		94-99	M10/M12	169	30	3	M8	5	2.2	41.5	25
UNI-R15		100-106	M10/M12	177	30	3	M8	5	2.2	43.1	25
UNI-R16	4	108-116	M10/M12	185	30	3	M8	5	2.2	45.5	25
UNI-R17		117-123	M10/M12	190	30	3	M8	5	2.2	49.3	25
UNI-R18		124-129	M12/M16	207	40	4	M12	8	3.2	9.6	10
UNI-R19		131-137	M12/M16	215	40	4	M12	8	3.2	9.9	10
UNI-R20	5	138-145	M12/M16	222	40	4	M12	8	3.2	105.2	10
UNI-R21		148-154	M12/M16	232	40	4	M12	8	3.2	109	10
UNI-R22		156-162	M12/M16	240	40	4	M12	8	3.2	112	10
UNI-R23	6	165-171	M12/M16	263	40	4	M12	8	3.2	116	10
UNI-R24		177-183	M12/M16	273	40	4	M12	8	3.2	120	10
UNI-R25		188-194	M12/M16	284	40	4	M12	8	3.2	128	10
UNI-R26		196-203	M12/M16	294	40	4	M12	9	3.2	132.6	10
UNI-R27		205-214	M12/M16	304	40	4	M12	9	3.2	133.4	10
UNI-R28	8	219-225	M12/M16	315	40	4	M12	9	3.2	142	10
UNI-R29		226-243	M12/M16	329	40	4	M12	9	3.2	151	10
UNI-R30		244-250	M12/M16	340	40	4	M12	9	3.2	154	10
UNI-R31		251-264	M12/M16	352	40	4	M12	9	3.2	157	10
UNI-R32	10	265-273	M12/M16	363	40	4	M12	9	3.2	167.1	10
UNI-R33		285-295	M12/M16	382	40	4	M12	9	3.2	170	10
UNI-R34		299-305	M12/M16	395	40	4	M12	9	3.2	178	10
UNI-R35	12	316-324	M16	454	50	5	M16	15		229.8	1
UNI-R36	14	348-356	M16	482	50	5	M16	15		279.8	1
UNI-R37		360-368	M16	496	50	5	M16	15		279.8	1
UNI-R38	16	399-409	M16	534	50	5	M16	15		329.8	1
UNI-R39		411-419	M16	546	70	7	M16	15		329.8	1
UNI-R40	20	500-508	M16	631	70	7	M16	15		395.2	1
UNI-R41		513-521	M16	645	70	7	M16	15		395.2	1

Pipe Clips




Heavy duty 2 screw Pipe Clip

Material : Steel DD11 - EN 10111 - Silicon rot; SHORE A = 40° ±5°
 Temperature durability: -50°C bis +250°C; Sound insulation value on average 22 dB(A)
 Finish : Electro zinc plated - DIN EN 12329



Solid S

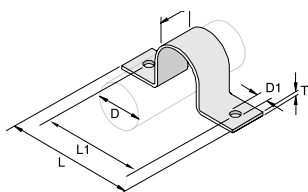
Art.Nr.	D Inch	D mm	G	L mm	W mm	T mm	S	F2 kN	VdS	KG /100	
UNI-S01	3/8	14-18	M8/M10	62	25	2.5	M6	2.5	y	14.5	50
UNI-S02	1/2	19-23	M8/M10	68	25	2.5	M6	2.5	y	16.6	50
UNI-S03	3/4	24-28	M8/M10	75	30	2.5	M6	4	y	15.3	50
UNI-S04		29-33	M8/M10	81	30	2.5	M6	4	y	16.1	50
UNI-S05	1	33-37	M8/M10	85	30	2.5	M6	4	y	18.3	50
UNI-S06	1 1/4	40-45	M8/M10	93	30	2.5	M6	4	y	18.7	50
UNI-S07	1 1/2	47-52	M8/M10	104	30	2.5	M6	4	y	22	50
UNI-S08		53-58	M8/M10	110	30	2.5	M6	4	y	23.1	50
UNI-S09	2	60-65	M8/M10	117	30	2.5	M6	4	y	25	50
UNI-S10		67-72	M10/M12	142	30	3	M8	5	y	31.7	25
UNI-S11	2 1/2	73-78	M10/M12	148	30	3	M8	5	y	35.7	25
UNI-S12		79-85	M10/M12	154	30	3	M8	5	y	37.3	25
UNI-S13	3	88-93	M10/M12	163	30	3	M8	5	y	38.3	25
UNI-S14		94-99	M10/M12	169	30	3	M8	5	y	39.4	25
UNI-S15		100-106	M10/M12	177	30	3	M8	5	y	42.8	25
UNI-S16	4	108-116	M10/M12	185	30	3	M8	5	y	46.6	25
UNI-S17		117-123	M10/M12	190	30	3	M8	5	y	60	25
UNI-S18		124-129	M12/M16	207	40	4	M12	8	y	92	10
UNI-S19		131-137	M12/M16	215	40	4	M12	8	y	95	10
UNI-S20	5	138-145	M12/M16	222	40	4	M12	8	y	100	10
UNI-S21		148-154	M12/M16	232	40	4	M12	8	y	95.3	10
UNI-S22		156-162	M12/M16	240	40	4	M12	8	y	112	10
UNI-S23	6	165-171	M12/M16	263	40	4	M12	8	y	114.7	10
UNI-S24		177-183	M12/M16	273	40	4	M12	8		117	10
UNI-S25		188-194	M12/M16	284	40	4	M12	8		120	10
UNI-S26		196-203	M12/M16	294	40	4	M12	9		123	10
UNI-S27		205-214	M12/M16	304	40	4	M12	9		126	10
UNI-S28	8	219-225	M12/M16	315	40	4	M12	9		130	10
UNI-S28VDS	8	219-225	M16	315	40	4	M12	9	y	130	10
UNI-S29		226-243	M12/M16	329	40	4	M12	9		170	10
UNI-S30		244-250	M12/M16	340	40	4	M12	9		180	10
UNI-S31		251-264	M12/M16	352	40	4	M12	9		190	10
UNI-S32	10	265-273	M12/M16	363	40	4	M12	9		200	10
UNI-S32VDS	10	265-273	M20	363	40	4	M12	9	y	200	10
UNI-S33		285-295	M12/M16	382	40	4	M12	9		170.8	10
UNI-S34		299-305	M12/M16	395	40	4	M12	9		185	10
UNI-S35	12	316-324	M16	440	40	4	M16	15		231	1
UNI-S36	14	348-356	M16	471	50	5	M16	15		261	1
UNI-S37		360-368	M16	482	50	5	M16	15		281	1
UNI-S38	16	399-409	M16	520	50	5	M16	15		291	1
UNI-S39		411-419	M16	532	70	7	M16	15		337.4	1
UNI-S40	20	500-508	M16	619	70	7	M16	15		387.4	1
UNI-S41		513-521	M16	631	70	7	M16	15		397.4	1

Pipe Clips


Heavy duty pipe clip

Material : Steel DD11 - EN 10111

Finish : Hot dip galvanised - EN ISO 1461: 2009



PS

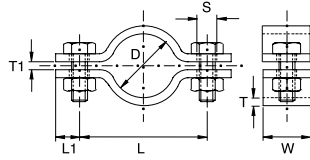
Art.Nr.	D Inch	DN	D1 mm	L mm	L1 mm	W mm	T mm	KG /100	
PS0153	1/2"	15	11	108	68	40	3	12.3	1
PS0203	3/4"	20	11	113	73	40	3	13.6	1
PS0253	1"	25	11	120	80	40	3	15.3	1
PS0323	1 1/4"	32	11	128	88	40	3	17.3	1
PS0403	1 1/2"	40	11	134	94	40	3	18.7	1
PS0503	2"	50	11	148	108	40	4	29	1
PS0653	2 1/2"	65	11	164	124	40	4	33.9	1
PS0803	3"	80	11	177	137	40	4	38.1	1
PS1003	4"	100	14	202	162	40	4	46.2	1
PS1253	5"	125	14	231	191	40	6	81.4	1
PS1503	6"	150	14	260	220	40	6	94.2	1
PS2003	8"	200	14	301	261	40	6	117	1
PS2503	10"	250	18	385	335	50	6	150	1
PS3003	12"	300	18	435	385	50	6	215.7	1

Pipe Clips



Pipe clamp DIN3567A

Material : Steel DD11 - EN 10111
 Finish : Hot dip galvanised - EN ISO 1461: 1999
 On request: self colour & stainless steel



DIN 3567A

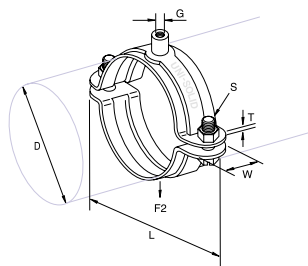
Art.Nr.	D Inch	D mm	L mm	L1 mm	W mm	T mm	T1 mm	S	KG /100	
35670223	1/2	21.3	58	15	30	5	7	11.5	16	25
35670273	3/4	26.9	64	15	30	5	7	11.5	18	25
35670343	1	33.7	72	15	30	5	7	11.5	20	25
35670433	1 1/4	42.4	82	15	30	5	7	11.5	23	25
35670493	1 1/2	48.3	88	15	30	5	7	11.5	26	25
35670613	2	60.3	108	18	40	6	9	14	56	10
35670773	2 1/2	76.1	122	18	40	6	9	14	64	10
35670893	3	88.9	136	18	40	6	9	14	73	10
35671083	-	108	172	24	50	8	11	18	152	1
35671153	4	114.3	178	24	50	8	11	18	159	1
35671333	-	133	196	24	50	8	11	18	171	1
35671403	5	139.7	204	24	50	8	11	18	181	1
35671593	-	159	222	24	50	8	11	18	195	1
35671693	6	168.3	232	24	50	8	11	18	199	1
35671943	-	194	258	24	50	8	11	18	235	1
35672203	8	219.1	284	24	50	8	11	18	261	1
35672673	-	267	342	30	60	8	14	23	372	1
35672733	10	273	348	30	60	8	14	23	375	1
35673243	12	323.9	398	30	60	8	14	23	452	1
35673563	-	355.6	432	30	60	8	14	23	478	1
35673683	-	368.3	444	30	60	8	14	23	495	1
35674073	16	406.4	498	36	70	10	18	27	807	1
35674193	-	419	510	36	70	10	18	27	814	1
35674573	-	457	548	36	70	10	18	27	900	1
35675083	20	508	600	36	70	10	18	27	980	1

Pipe Clips

Heavy duty 2 screw pipe clip

Material : Steel DD11 - EN 10111

Finish : Delta Tone - Corrosion resistance - EN ISO 9227



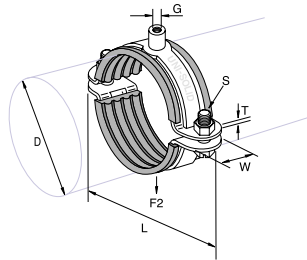
Solid ND

Art.Nr.	D Inch	D mm	G	L mm	W mm	T mm	S	F2 kN	Fz RAL kN	KG /100	
UNI-N10D	2 1/2	76-81	M10/M12	142	30	3	M8	5	3	29.7	25
UNI-N11D		82-85	M10/M12	148	30	3	M8	5	3	32.1	25
UNI-N12D	3	88-94	M10/M12	154	30	3	M8	5	3	32.3	25
UNI-N13D		95-102	M10/M12	163	30	3	M8	5	3	34.7	25
UNI-N14D		102-108	M10/M12	169	30	3	M8	5	3	48.7	25
UNI-N15D	4	110-116	M10/M12	177	30	3	M8	5	3	38.2	25
UNI-N16D		117-124	M10/M12	185	30	3	M8	5	3	39.9	25
UNI-N17D		124-129	M10/M12	190	30	3	M8	5	3	40.6	25
UNI-N18D		133-140	M12/M16	207	40	4	M12	8	9	82.6	10
UNI-N19D	5	140-146	M12/M16	215	40	4	M12	8	9	84.5	10
UNI-N20D		149-155	M12/M16	222	40	4	M12	8	9	87.7	10
UNI-N21D		159-165	M12/M16	232	40	4	M12	8	9	91	10
UNI-N22D	6	167-173	M12/M16	240	40	4	M12	8	9	95	10
UNI-N23D		176-182	M12/M16	265	40	4	M12	8	9	98	10
UNI-N24D		188-194	M12/M16	273	40	4	M12	8	9	102.3	10
UNI-N25D		199-205	M12/M16	284	40	4	M12	9	9	107.5	10
UNI-N26D		207-216	M12/M16	294	40	4	M12	9	9	110	10
UNI-N27D	8	219-226	M12/M16	304	40	4	M12	9	9	115	10
UNI-N28D		227-236	M12/M16	315	40	4	M12	9	9	117.5	10
UNI-N29D		244-250	M12/M16	329	40	4	M12	9	9	124	10
UNI-N30D		251-261	M12/M16	340	40	4	M12	9	9	128	10
UNI-N31D	10	267-273	M12/M16	352	40	4	M12	9	9	133	10
UNI-N32D		278-284	M12/M16	363	40	4	M12	9	9	136	10
UNI-N33D		297-304	M12/M16	382	40	4	M12	9	9	145	10
UNI-N34D		305-316	M12/M16	395	40	4	M12	9	9	148	10
UNI-N35D	12	316-324	M16	440	50	5	M16	15		229.8	1




Heavy duty 2 screw pipe clip

Material : Steel DD11 - EN 10111 - EPDM/SBR black; SHORE A = 45° ± 5°
 Temperature durability: -40°C bis +100°C; Sound insulation value on average 22 dB(A)
 Finish : Delta Tone - Corrosion resistance - EN ISO 9227



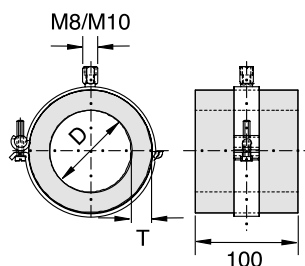
Solid RD

Art.Nr.	D Inch	D mm	G	L mm	W mm	T mm	S	F2 kN	Fz RAL kN	KG /100	
UNI-R10D		67-72	M10/M12	142	30	3	M8	5	2.2	31	25
UNI-R11D	2 1/2	73-78	M10/M12	148	30	3	M8	5	2.2	35.9	25
UNI-R12D		79-85	M10/M12	154	30	3	M8	5	2.2	38.1	25
UNI-R13D	3	88-93	M10/M12	163	30	3	M8	5	2.2	40.2	25
UNI-R14D		94-99	M10/M12	169	30	3	M8	5	2.2	41.5	25
UNI-R15D		100-106	M10/M12	177	30	3	M8	5	2.2	43.1	25
UNI-R16D	4	108-116	M10/M12	185	30	3	M8	5	2.2	45.5	25
UNI-R17D		117-123	M10/M12	190	30	3	M8	5	2.2	49.3	25
UNI-R18D		124-129	M12/M16	207	40	4	M12	8	3.2	9.6	10
UNI-R19D		131-137	M12/M16	215	40	4	M12	8	3.2	9.9	10
UNI-R20D	5	138-145	M12/M16	222	40	4	M12	8	3.2	105.2	10
UNI-R21D		148-154	M12/M16	232	40	4	M12	8	3.2	109	10
UNI-R22D		156-162	M12/M16	240	40	4	M12	8	3.2	112	10
UNI-R23D	6	165-171	M12/M16	263	40	4	M12	8	3.2	116	10
UNI-R24D		177-183	M12/M16	273	40	4	M12	8	3.2	120	10
UNI-R25D		188-194	M12/M16	284	40	4	M12	8	3.2	128	10
UNI-R26D		196-203	M12/M16	294	40	4	M12	9	3.2	132.6	10
UNI-R27D		205-214	M12/M16	304	40	4	M12	9	3.2	133.4	10
UNI-R28D	8	219-225	M12/M16	315	40	4	M12	9	3.2	142	10
UNI-R29D		226-243	M12/M16	329	40	4	M12	9	3.2	151	10
UNI-R30D		244-250	M12/M16	340	40	4	M12	9	3.2	154	10
UNI-R31D		251-264	M12/M16	352	40	4	M12	9	3.2	157	10
UNI-R32D	10	265-273	M12/M16	363	40	4	M12	9	3.2	167.1	10
UNI-R33D		285-295	M12/M16	382	40	4	M12	9	3.2	170	10
UNI-R34D		299-305	M12/M16	395	40	4	M12	9	3.2	178	10
UNI-R35D	12	316-324	M16	454	50	5	M16	15		229.8	1


Pipe Clips

Pipe clip with polyurethane insert

Material : Steel DD11 - EN 10111
 Polyurethane 80 kg/m³; W=0,030 W/mK
 Temperature durability: -50°C up to 105°C



PUN

Art.Nr.	D Inch	D mm	G	T20 mm	T25 mm	T30 mm	T40 mm	T50 mm	KG /100	
PUN2001	3/8	17.2	M8/M10	20					14.2	1
PUN2002	-	18	M8/M10	20					14.2	1
PUN2003	1/2	21.3	M8/M10	20					12.7	1
PUN2004	-	22	M8/M10	20					12.7	1
PUN2005	3/4	26.9	M8/M10	20					14.3	1
PUN2006	-	28	M8/M10	20					18.5	1
PUN2007	1	33.7	M8/M10	20					18.2	1
PUN2008	-	35	M8/M10	20					19.2	1
PUN2009	1 1/4	42.4	M8/M10	20					24.5	1
PUN2010	-	42	M8/M10	20					25	1
PUN2011	1 1/2	48.3	M8/M10	20					22.3	1
PUN2012	-	54	M8/M10	20					29.5	1
PUN2013	2	60.3	M8/M10	20					25	1
PUN2014	2 1/2	76.1	M8/M10	20					27.2	1
PUN2015	3	88.9	M8/M10	20					29.7	1
PUN2016	4	114.3	M8/M10	20					31	1
PUN2501	3/8	17.2	M8/M10		25				19.5	1
PUN2502	-	18	M8/M10		25				19.5	1
PUN2503	1/2	21.3	M8/M10		25				19.2	1
PUN2504	-	22	M8/M10		25				19.2	1
PUN2505	3/4	26.9	M8/M10		25				19.2	1
PUN2506	-	28	M8/M10		25				19.2	1
PUN2507	1	33.7	M8/M10		25				20.3	1
PUN2508	-	35	M8/M10		25				21.3	1
PUN2509	1 1/4	42.4	M8/M10		25				21.3	1
PUN2510	-	42	M8/M10		25				21.8	1
PUN2511	1 1/2	48.3	M8/M10		25				24	1
PUN2512	-	54	M8/M10		25				25	1
PUN2513	2	60.3	M8/M10		25				27.2	1
PUN2514	2 1/2	76.1	M8/M10		25				29.7	1
PUN2515	3	88.9	M8/M10		25				33.6	1
PUN2516	4	114.3	M8/M10		25				36.2	1
PUN3001	3/8	17.2	M8/M10			30			21.2	1
PUN3002	-	18	M8/M10			30			26.5	1
PUN3003	1/2	21.3	M8/M10			30			26.5	1
PUN3004	-	22	M8/M10			30			26.5	1
PUN3005	3/4	26.9	M8/M10			30			23.3	1
PUN3006	-	28	M8/M10			30			23.3	1
PUN3007	1	33.7	M8/M10			30			29.5	1
PUN3008	-	35	M8/M10			30			29.5	1
PUN3009	1 1/4	42.4	M8/M10			30			55	1
PUN3010	-	42	M8/M10			30			25	1



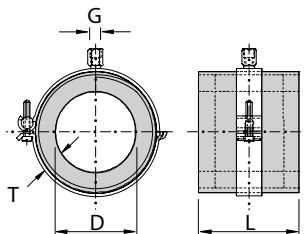
Pipe clip with polyurethane insert

Material : Steel DD11 - EN 10111
 Polyurethane 80 kg/m³; W=0,030 W/mK
 Temperature durability: -50°C up to 105°C

Art.Nr.	D Inch	D mm	G	T20 mm	T25 mm	T30 mm	T40 mm	T50 mm	KG /100	
PUN3011	1 1/2	48.3	M8/M10			30			32	1
PUN3012	-	54	M8/M10			30			32.2	1
PUN3013	2	60.3	M8/M10			30			39.6	1
PUN3014	2 1/2	76.1	M8/M10			40			41.7	1
PUN3015	3	88.9	M8/M10			30			45	1
PUN3016	4	114.3	M8/M10			30			52.7	1
PUN3017	5	139.7	M10/M12			30			124.9	1
PUN3018	6	168.3	M10/M12			30			127	1
PUN4001	3/8	17.2	M8/M10				40		30	1
PUN4002	-	18	M8/M10				40		30	1
PUN4003	1/2	21.3	M8/M10				40		30	1
PUN4004	-	22	M8/M10				40		30	1
PUN4005	3/4	26.9	M8/M10				40		32	1
PUN4006	-	28	M8/M10						34	1
PUN4007	1	33.7	M8/M10				40		34.2	1
PUN4008	-	35	M8/M10				40		34.2	1
PUN4009	1 1/4	42.4	M8/M10				40		41.7	1
PUN4010	-	42	M8/M10				40		41.7	1
PUN4011	1 1/2	48.3	M8/M10				40		36.7	1
PUN4012		54	M8/M10				40		44.7	1
PUN4013	2	60.3	M8/M10				40		41.6	1
PUN4014	2 1/2	76.1	M8/M10				40		94	1
PUN4015	3	88.9	M8/M10				40		43.2	1
PUN4016	4	114.3	M10/M12				40		23	1
PUN4017	5	139.7	M10/M12				40		135	1
PUN4018	6	168.3	M10/M12				40		144	1
PUN5008	-	35	M8/M10					50	43.7	1
PUN5009	1 1/4	42.4	M8/M10					50	40.6	1
PUN5010	-	42	M8/M10					50	40.6	1
PUN5011	1 1/2	48.3	M8/M10					50	47	1
PUN5012	-	54	M10/M12					50	48	1
PUN5013	2	60.3	M8/M10					50	43.2	1
PUN5014	2 1/2	76.1	M8/M10					50	53.7	1
PUN5015	3	88.9	M10/M12					50	67	1
PUN5016	4	114.3	M10/M12					50	75	1
PUN5017	5	139.7	M10/M12					50	141.5	1
PUN5018	6	168.3	M8/M10					50	159	1

Cool pipe clip with PU and synthetic rubber ends

Material : Steel DD11 - EN 10111
 Polyurethane 80 kg/m³; W=0,030 W/mK
 Temperature durability: -45°C up to +105°C



KS


Pipe Clips

Art.Nr.	D Inch	D mm	G	L mm	Max Span m	T13-16 mm	T19-26 mm	T32-45 mm	KG /100	
1160106	-	10	M8/M10	50	2	13			4.7	15
1160107	-	10	M8/M10	50	2		19		6.5	14
1160126	-	12	M8/M10	50	2	13			4.9	15
1160127	-	12	M8/M10	50	2		19		6.7	14
1160156	-	15	M8/M10	50	2	13			5.4	15
1160157	-	15	M8/M10	50	2		19		6.9	14
1160186	3/8	18	M8/M10	50	2.25	13			6	15
1160187	3/8	18	M8/M10	50	2.25		19		7.5	10
1160188	3/8	18	M8/M10	50				33		10*
1160226	1/2	22	M8/M10	50	2.75	13			6.4	14
1160227	1/2	22	M8/M10	50	2.75		20		7.7	10
1160228	1/2	22	M8/M10	50				33		10*
1160256	-	25	M8/M10	50	2.75	13			6.6	14
1160257	-	25	M8/M10	50	2.75		20.5		8.1	10
1160258	-	25	M8/M10	50				33		10*
1160286	3/4	28	M8/M10	50	3	13.5			6.9	10
1160287	3/4	28	M8/M10	50	3		21		8.4	10
1160288	3/4	28	M8/M10	50				33.5		10*
1160306	-	30	M8/M10	50	3	13.5			7.1	10
1160307	-	30	M8/M10	50	3		21		17.9	10
1160308	-	30	M8/M10	50				33.5		13*
1160356	1	35	M8/M10	50	3.5	14			7.7	10
1160357	1	35	M8/M10	50	3.5		21.5		19	10
1160358	1	35	M8/M10	75	3.5			33.5	26.8	13*
1160426	1 1/4	42	M8/M10	50	3.75	14.5			8.4	14
1160427	1 1/4	42	M8/M10	50	3.75		22		20.5	14
1160428	1 1/4	42	M8/M10					33.5		10*
1160446	-	44.5	M8/M10	50	3.75	14.5			17.6	14
1160447	-	44.5	M8/M10	50	3.75		22.5		20.7	14
1160486	1 1/2	-	M8/M10	50	4.25	14.5			18.3	14
1160487	1 1/2	-	M8/M10	50	4.25		22.5		21.4	14
1160488	1 1/2	-	M8/M10							10*
1160546	-	54	M8/M10	50	4.25	14.5			19.1	14
1160547	-	54	M8/M10	50	4.25		23		23.2	14
1160548	-	54	M8/M10							6*
1160606	2	-	M8/M10	50	4.75		15		20.4	14
1160607	2	-	M8/M10	75	4.75		23.5		23.4	10
1160608	2	-	M8/M10							6*
1160646	-	64	M8/M10	50	4.75	15			21.5	14
1160647	-	64	M8/M10	75	4.75		23.5		25.2	10
1160648	-	64	M8/M10							6*
1160706	-	70	M8/M10	50	4.75	15			22.4	10



Cool pipe clip with PU and synthetic rubber ends

Material : Steel DD11 - EN 10111
 Polyurethane 80 kg/m³; W=0,030 W/mK
 Temperature durability: -45°C up to +105°C

Art.Nr.	D Inch	D mm	G	L mm	Max Span m	T13-16 mm	T19-26 mm	T32-45 mm	KG /100	
1160707	-	70	M8/M10	75	4.75		24		26.6	10
1160708	-	70	M8/M10							8*
1160766	2 1/2	-	M8/M10	75	5.5	15			24.6	10
1160767	2 1/2	-	M8/M10	75	5.5		24		30	10
1160768	2 1/2	-	M8/M10							8*
1160896	3	-	M8/M10	75	6	15.5			27.2	10
1160897	3	-	M8/M10	75	6		24.5		31.9	10
1160898	3	-	M8/M10							8*
1161026	-	102	M8/M10	75	6	15.5			30.9	6
1161027	-	102	M8/M10	75	6		25		36	10
1161028	-	102	M8/M10							6*
1161086	-	108	M8/M10	75	6	15.5			31.5	10
1161087	-	108	M12/M16	75	6		25		37.2	6
1161088	-	108	M8/M10							8*
1161146	4	-	M8/M10	75	6	16			34.4	10
1161147	4	-	M12/M16	100	6		25.5		39.8	8
1161148	4	-	M8/M10							3*
1161256	-	125	M12/M16	100	6	16			42.7	8
1161257	-	125	M12/M16	100	6		25.5		51.4	8
1161336	-	133	M12/M16	100	6	16			46	5
1161337	-	133	M12/M16	100	6		25.5		54.2	6
1161396	5	-	M12/M16	100	6	16			47.6	5
1161397	5	-	M12/M16	100	6		26		56.6	6
1161606	-	160	M12/M16	100	6	16			51.8	6
1161607	-	160	M12/M16	100	6		26		60.8	4
1161686	-	168	M12/M16	100	6	16			54.5	6
1161687	-	168	M12/M16	100	6		26		71.5	4
1162197	-	219	M16	100	6		26		145.6	2
1162737	-	273	M16	100	6		26		154.0	1
1163247	-	324	M16	10	6		26		246.2	1

Adhesive paste for PU inserts

Material : Adhesive paste for PU



PASTE

Art.Nr.	ML ml	KG /100	
PASTE	310	50	12

Pipe Clips



Cool pipe clip with PU 250 kg/m³

Material : Steel DD11 - EN 10111
 Polyurethane 250 kg/m³; W=0.045 W/mK; μ=2500
 Temperature durability: -160°C up to +130°C



175

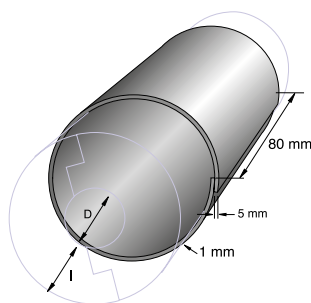
170

Art.Nr.	DN	D mm	D1 mm	G	W mm	T30 mm	T40 mm	T60 mm	KG /100	
17501730	10	17.2	88	M8-1/2"	40	30			14.8	10
17501830	10	18	88	M8-1/2"	40	30			14.8	10
17502130	15	21.3	88	M8-1/2"	40	30			14.6	10
17502230	15	22	88	M8-1/2"	40	30			14.6	10
17502630	20	26.9	88	M8-1/2"	40	30			14.4	10
17502830	20	28	88	M8-1/2"	40	30			14.4	10
17503330	25	33.7	95	M8-1/2"	40	30			15.6	10
17503530	25	35	95	M8-1/2"	40	30			15.6	10
17504230	32	42.4	102	M8-1/2"	40	30			16.4	10
17504830	40	48.3	108	M8-1/2"	40	30			16.8	10
17505430	-	54	117	M8-1/2"	40	30			20	10
17505730	50	57	117	M8-1/2"	40	30			20	10
17506030	50	60.3	120	M8-1/2"	50	30			26	10
17506430	-	64	120	M8-1/2"	50	30			26	10
17507030	60	70	136	M10-1/2"	50	30			38.2	10
17507630	65	76.1	136	M10-1/2"	50	30			37.4	10
17508830	80	88.9	149	M10-1/2"	50	30			41.5	5
17510840	100	108	188	M10-1/2"	60		40		94	5
17511440	100	114.3	195	M10-1/2"	60		40		98	5
17513340	125	133	220	M10-1/2"	60		40		112	5
17513940	125	139.7	220	M10-1/2"	60		40		110	5
17515440	-	154	188	M10-1/2"	60		40		120.5	4
17515940	150	159	240	M12-1/2"	60		40		120.5	4
17516840	150	168.3	250	M12-1/2"	60		40		127.5	4
17521960	200	219.1	340	M16-3/4"	100		40		320	1
17527360	250	273	393	M16	100			60	512	1
17532460	300	324	444	M20	100			60	678	1
17535660	350	356	476	M20	100			60	818	1
17536860	-	368	488	M20	120			60	828	1
17540660	400	406	526	M24	120			60	1134	1
17545760	450	457	577	M24	120			60	1248	1
17550860	500	508	628	M24	120			60	1416	1
17560960	600	609	729	M24	140			60	1650	1

Pipe Clips

Steel cylinder to support PU insulation shells

Material : Steel DX51D+Z275 - EN 10327




UNICLIP COOL CYL

Art.Nr.	D Inch	D mm	T20 mm	T25 mm	T30 mm	T40 mm	T50 mm	KG /100	
CYL2006		28	20					17.5	1
CYL2007	1	33.7	20					18	1
CYL2008		35	20					19	1
CYL2009	1 1/4	42.4	20					20	1
CYL2010		42	20					21	1
CYL2011	1 1/2	48.3	50					22	1
CYL2012		54	20					23.5	1
CYL2013	2	60.3	20					25	1
CYL2014	2 1/2	76.1	20					28	1
CYL2015	3	88.9	20					31	1
CYL2016	4	114.3	20					38	1
CYL2017	5	139.7	20					44	1
CYL2018	6	168.3	20					50.5	1
CYL2502		18		25				6	1
CYL2503	1/2	21.3		25				17	1
CYL2504		22		25				18.5	1
CYL2505	3/4	26.9		25				19	1
CYL2506		28		25				20	1
CYL2507	1	33.7		25				21	1
CYL2508		35		25				22	1
CYL2509	1 1/4	42.4		25				23	1
CYL2510		42		25				23.5	1
CYL2511	1 1/2	48.3		25				24	1
CYL2512		54		25				25.5	1
CYL2513	2	60.3		25				27	1
CYL2514	2 1/2	76.1		25				31	1
CYL2515	3	88.9		25				34	1
CYL2516	4	114.3		25				40	1
CYL2517	5	139.7		25				46	1
CYL2518	6	168.3		25				52	1
CYL3001	3/8	17.2			30			19	1
CYL3002		18			30			19.5	1
CYL3003	1/2	21.3			30			20	1
CYL3004		22			30			20.5	1
CYL3005	3/4	26.9			30			21	1
CYL3006		28			30			22.5	1
CYL3007	1	33.7			30			23	1
CYL3008		35			30			24	1
CYL3009	1 1/4	42.4			30			25	1
CYL3010		42			30			26	1
CYL3011	1 1/2	48.3			30			27	1
CYL3012		54			30			28.5	1
CYL3013	2	60.3			30			29	1
CYL3014	2 1/2	76.1			30			33	1
CYL3015	3	88.9			30			36	1



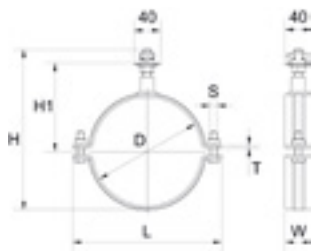
Steel cylinder to support PU insulation shells

Material : Steel DX51D+Z275 - EN 10327


Art.Nr.	D Inch	D mm	T20 mm	T25 mm	T30 mm	T40 mm	T50 mm	KG /100	
CYL3016	4	114.3			30			43	1
CYL3017	5	139.7			30			49	1
CYL3018	6	168.3			30			57	1
CYL4001	3/8	17.2			40			24	1
CYL4002		18				40		24.5	1
CYL4003	1/2	21.3				40		25	1
CYL4004		22				40		25.5	1
CYL4005	3/4	26.9				40		26	1
CYL4006		28				40		27	1
CYL4007	1	33.7				40		28	1
CYL4008		35				40		28.5	1
CYL4009	1 1/4	42.4				40		30	1
CYL4010		42				40		30.5	1
CYL4011	1 1/2	48.3				40		31	1
CYL4012		54				40		33.5	1
CYL4013	2	60.3				40		34	1
CYL4014	2 1/2	76.1				40		38	1
CYL4015	3	88.9				40		41	1
CYL4016	4	114.3				40		48	1
CYL4017	5	139.7				40		54	1
CYL4018	6	168.3				40		61	1
CYL5001	3/8	17.2					50	29	1
CYL5002		18					50	29.5	1
CYL5003	1/2	21.3					50	30	1
CYL5004		22					50	30.5	1
CYL5005	3/4	26.9					50	31	1
CYL5006		28					50	32	1
CYL5007	1	33.7					50	33	1
CYL5008		35					50	34	1
CYL5009	1 1/4	42.4					50	35	1
CYL5010		42					50	35.5	1
CYL5011	1 1/2	48.3					50	36	1
CYL5012		54					50	38.5	1
CYL5013	2	60.3					50	39	1
CYL5014	2 1/2	76.1					50	43	1
CYL5015	3	88.9					50	47	1
CYL5016	4	114.3					50	53	1
CYL5017	5	139.7					50	59	1
CYL5018	6	168.3					50	65	1

Heavy duty 2 screw pipe clip

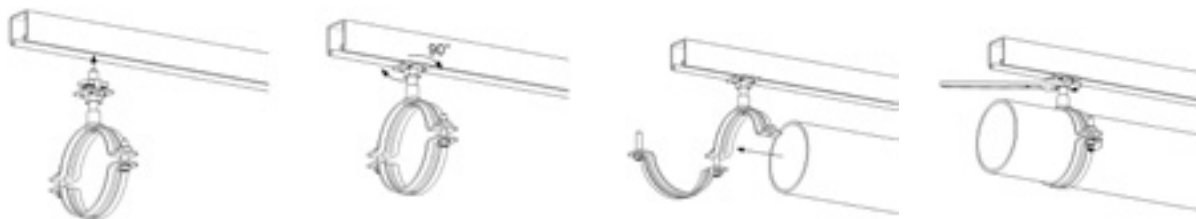
Material : Steel DD11 - EN 10111
 Finish : Electro zinc plated - DIN EN 12329



Solid RD

Art.Nr.	D mm	L mm	W mm	H mm	H1 mm	T mm	S	F2 kN	KG /100	
1131040	40	89	30	124	72	2.5	M6	4	31.7	10
1131050	50	103	30	136	78	2.5	M6	4	33.8	10
1131056	56	108	30	142	81	2.5	M6	4	34.7	10
1131063	63	116	30	148	84	2.5	M6	4	36	10
1131075	75	136	30	167	93	3	M8	4	42.2	10
1131090	90	147	30	180	99	3	M8	4	44.8	10
1131110	110	174	30	202	111	3	M8	4	49.9	10
1131125	125	189	30	215	117	3	M8	4	52.9	10
1131160	160	225	40	243	134	4	M10	4	96.9	5
1131200	200	265	40	284	153	4	M10	4	113.9	5
1131250	250	310	40	329	176	4	M10	4	131.3	5
1131315	315	376	40	395	209	4	M10	4	155.2	5

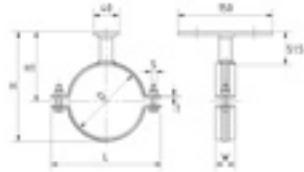
Pipe Clips






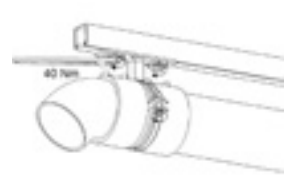
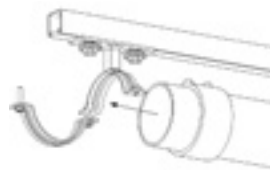
Roof drainage fix point DN40 to DN160

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329



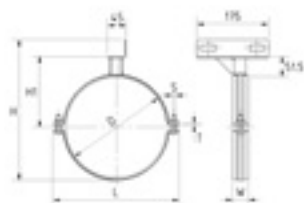
FP RD 40-160

Art.Nr.	D mm	L mm	W mm	H mm	H1 mm	T mm	S	F2 kN	KG /100	
1136040	40	89	30	95	72	2.5	M6	4	37.2	10
1136050	50	103	30	107	78	2.5	M6	4	39.3	10
1136056	56	108	30	113	81	2.5	M6	4	40.2	10
1136063	63	116	30	119	84	2.5	M6	4	41.5	10
1136075	75	136	30	136	93	3	M8	5	50.8	5
1136090	90	147	30	149	99	3	M8	5	53.3	5
1136110	110	174	30	171	111	3	M8	5	58.5	5
1136125	125	189	30	185	117	3	M8	5	61.5	5
1136160	160	225	40	221	134	4	M10	8	106.4	5




Roof drainage fix point DN200 to DN315

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329



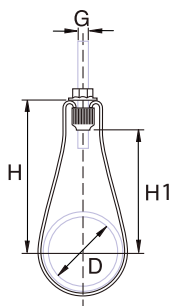
FP RD 200-315

Art.Nr.	D mm	L mm	W mm	H mm	H1 mm	T mm	S	F2 kN	KG /100	
1136200	200	265	40	302	153	4	M10	8	147.7	1
1136250	250	310	40	346	176	4	M10	8	165.1	1
1136315	315	376	40	412	209	4	M10	8	188.9	1




Sprinkler hanger

Material : Steel DX51D+Z275 - EN 10327



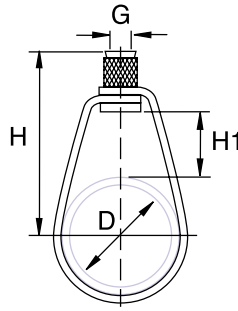
USP

Art.Nr.	D Inch	DN	G	H mm	H1 mm	FM	VdS	KG /100	
USP15	1/2	15	M8	56	41		y	4.2	50
USP20	3/4	20	M8	57	42		y	4.2	50
USP2010	3/4	20	M10	57	42	y	y	4.2	50
USP25	1	25	M8	57	42		y	4.5	50
USP2510	1	25	M10	57	42	y	y	4.5	50
USP32	1 1/4	32	M8	57	42		y	4.8	50
USP3210	1 1/4	32	M10	57	42	y	y	4.8	50
USP40	1 1/2	40	M8	62	47		y	5.4	50
USP4010	1 1/2	40	M10	62	47	y	y	5.4	50
USP50	2	50	M8	72	57		y	6.4	50
USP5010	2	50	M10	72	57	y	y	6.4	50
USP65	2 1/2	65	M10	89	69	y	y	10.1	25
USP80	3	80	M10	104	84	y	y	11.6	25
USP100	4	100	M10	135	115	y	y	14.7	25
USP125	5	125	M12	151	129	y	y	17.5	25
USP150	6	150	M12	188	166	y	y	20.7	25
USP200	8	200	M16	236	214	y	y	35.6	10
USP250	10	250	M20	310	288		y	52.4	1



Sprinkler hanger

Material : Steel DX51D+Z275 - EN 10327



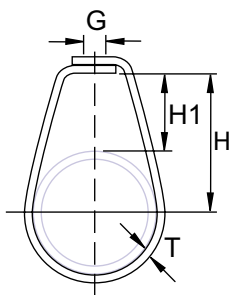
SPH

Art.Nr.	D Inch	DN	G	H mm	H1 mm	FM	KG /100	
SPH00211	1/2	15	M8	64	35		4.2	50
SPH00212	1/2	15	M10	64	35		4.0	50
SPH00271	3/4	20	M8	64	32		4.2	50
SPH00272	3/4	20	M10	64	32	y	4.0	50
SPH00341	1	25	M8	69	33		4.7	50
SPH00342	1	25	M10	69	33	y	4.5	50
SPH00421	1 1/4	32	M8	76	35		5.1	50
SPH00422	1 1/4	32	M10	76	35	y	4.9	50
SPH00481	1 1/2	40	M8	84	41		5.4	50
SPH00482	1 1/2	40	M10	84	41	y	5.2	50
SPH00601	2	50	M8	87	38		6.7	50
SPH00602	2	50	M10	87	38	y	6.5	50
SPH00762	2 1/2	65	M10	94	37	y	8.6	25
SPH00892	3	80	M10	107	42	y	10.0	25
SPH01142	4	100	M10	137	61	y	13.0	25
SPH01413	5	125	M12	164	71	y	31.0	20
SPH01683	6	150	M12	168	61	y	33.5	20
SPH02193	8	200	M12	223	90	y	54.0	10


Pipe Clips

Sprinkler hanger

Material : Steel DX51D+Z275 - EN 10327
Stainless Steel - 1.4301



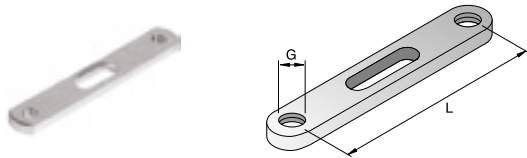
FILBOW

Art.Nr.	Material	D Inch	G	H mm	H1 mm	T mm	FM	LPCB	KG /100	
FIL00212	DX51	1/2	11	45	35	1.0			2.8	50
FIL00272	DX51	3/4	11	45	32	1.0	y	y	2.8	50
FIL00342	DX51	1	11	50	33	1.0	y	y	3.4	50
FIL00422	DX51	1 1/4	11	56	34	1.0	y	y	3.6	50
FIL00482	DX51	1 1/2	11	65	41	1.0	y	y	4.2	50
FIL00602	DX51	2	11	68	38	1.0	y	y	4.6	50
FIL00762	DX51	2 1/2	11	75	35	1.5	y	y	8.5	25
FIL00892	DX51	3	11	88	42	1.5	y	y	9.7	25
FIL01142	DX51	4	11	118	61	1.5	y	y	12.4	25
FIL01682	DX51	6	13	145	61	2.5	y	y	31.1	20
FIL02192	DX51	8	17	200	90	2.5	y	y	51.6	10
FIL02732	DX51	10	18	250	110	2.5			62.9	5
FIL40212	SS	1/2	11	45	35	1.0			2.8	50
FIL40272	SS	3/4	11	45	32	1.0	y		2.8	50
FIL40342	SS	1	11	50	33	1.0	y		3.4	50
FIL40422	SS	1 1/4	11	56	34	1.0	y		3.6	50
FIL40482	SS	1 1/2	11	65	41	1.0	y		4.2	50
FIL40602	SS	2	11	68	38	1.0	y		4.6	50
FIL40762	SS	2 1/2	11	75	35	1.5	y		8.5	25
FIL40892	SS	3	11	88	42	1.5	y		9.7	25
FIL41142	SS	4	11	118	61	1.5	y		12.4	25
FIL41682	SS	6	13	145	61	2.5	y		31.1	20
FIL42192	SS	8	17	200	90	2.5	y		51.6	10
FIL42732	SS	10	18	250	110	2.5			62.9	10




Fixings for two pipe clips

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329

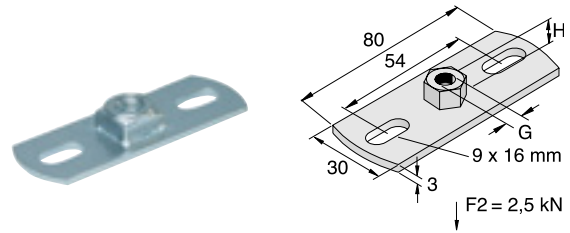


DH


Art.Nr.	G	L mm	KG /100	
1488401	M8	40	2.5	50
1488551	M8	55	3.3	50
1488651	M8	65	3.5	50
1488851	M8	85	4	100
1481061	M8	105	6.4	50

Baseplates with thread connector

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329

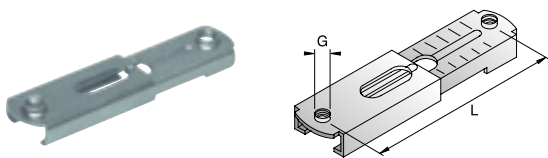


Type L

Art.Nr.	G	H mm	KG /100	
1460081	M8	11	5.9	100
1460101	M10	11	5.9	100
1460108	M8/ M10	17	6	100
1460121	M12	13	6.3	100
1460221	1/2"	18	7.4	50

Fixings for two pipe clips

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329

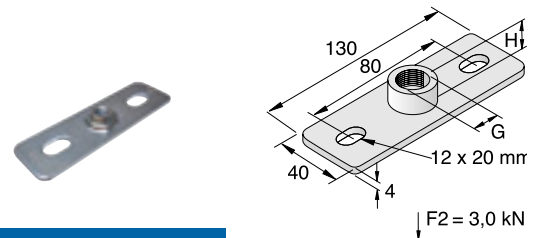


DHV


Art.Nr.	G	L mm	KG /100	
1486010	M8	60-105	4.8	100

Baseplates with thread connector

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329



Type M


Art.Nr.	G	H mm	KG /100	
1462008	M8	12	15.6	50
1462010	M10	12	16.1	50
1462012	M12	14	15.9	50
1462016	M16	18	21	50
1462022	1/2"	20	21.1	50
1462028	3/4"	22	21.9	50

Fixings for two pipe clips

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329



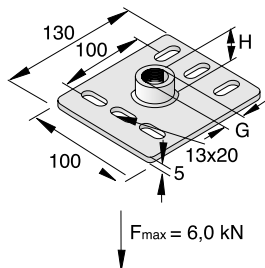
SB

Art.Nr.	G	L mm	KG /100	
1488133	M8	13	0.4	100
1488253	M8	25	1	100
1488353	M8	35	1.2	100
1488453	M8	45	1.6	100
1488553	M8	55	2	100
1488653	M8	65	2.4	100

Pipe Clips

Baseplates with thread connector

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329



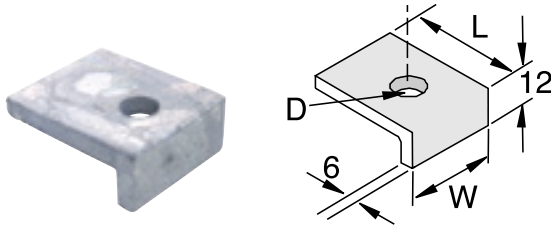
Type H

Art.Nr.	G	H mm	KG /100	
1461010	M10	13	45.1	10
1461012	M12	14	46.3	10
1461016	M16	18	48.9	10
1461022	1/2"	20	48.6	10
1461028	3/4"	22	49.6	10
1461034	1"	28	52.5	10



Sidebeam attachments

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 1999

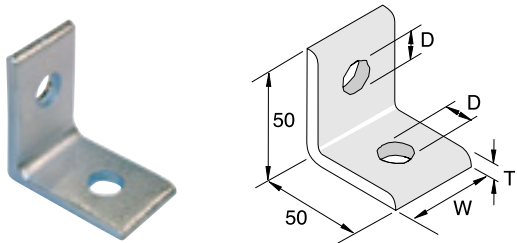


GIRDER

Art.Nr.	D mm	L mm	W mm	KG /100	
D404006M10	11	50	40	140	100
D504006M10	11	50	40	180	100
D505006M10	11	50	50	22	50
D606006M10	14	60	60	32	50
D504006M12	14	50	40	180	100
D505006M12	14	50	50	22	50
D606006M12	14	60	60	32	100

Sidebeam attachments

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329 (G5050)
Hot dip galvanised - EN ISO 1461: 1999

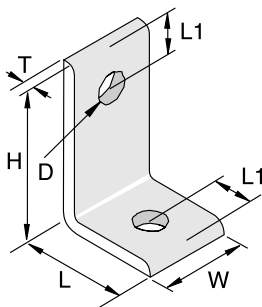


MODEL 325


Art.Nr.	D mm	W mm	T mm	KG /100	
D325M102	11	50	5	19.6	50
D325M122	14	50	6	23.6	50
G5050	11	50	5	11.8	50

Sidebeam attachments

Material : Steel DD11 - EN 10111
 Finish : Electro zinc plated - DIN EN 12329



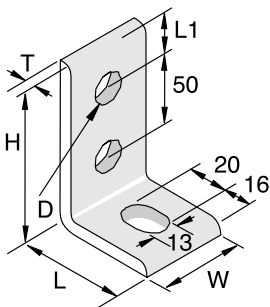
G4530-G6040

Art.Nr.	D mm	L mm	L1 mm	W mm	H mm	T mm	F2 kN	F4 kN	KG /100	
G4530	11	30	13	30	45	4	12	3.5	8.5	50
G6040	13	40	16	45	60	6	25	5.0	27.6	25

Sidebeam attachments

Material : Steel DD11 - EN 10111
 Finish : Electro zinc plated - DIN EN 12329

Pipe Clips



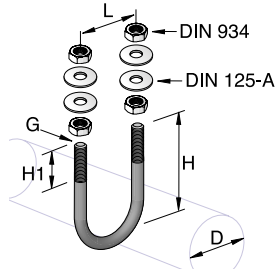
G9060

Art.Nr.	D mm	L mm	L1 mm	W mm	H mm	T mm	F2 kN	F4 kN	KG /100	
G9060	13	60	15	45	90	6	32	8.0	44.5	25




U-bolt assembly with 2 nuts & 2 washers

Material : Steel DD11 - EN 10111
 Finish : Electro zinc plated - DIN EN 12329



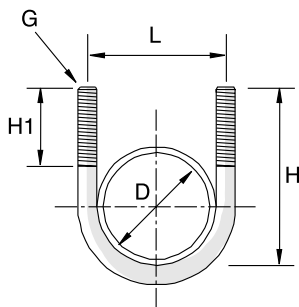
170C

Art.Nr.	D Inch	D mm	G	L mm	H mm	H1 mm	KG /100	
170C02112	1/2	21.3	M8	31	37	20	5.8	100
170C02712	3/4	26.9	M8	36	64	30	6.8	100
170C03412	1	33.7	M8	44	54	30	7.8	100
170C04212	1 1/4	42.4	M8	52	67	35	9.8	100
170C04812	1 1/2	48.3	M8	57	78	40	10.8	100
170C06022	2	50	M10	73	90	40	17.4	50
170C07622	2 1/2	65	M10	89	103	40	18.4	50
170C08922	3	80	M10	100	113	50	21.4	50
170C11432	4	114.3	M12	126	144	50	35.8	50
170C13932	5	139.7	M12	156	169	60	38.8	25
170C16832	6	168.3	M12	182	194	60	41.8	25
170C21932	8	219.1	M12	236	251	60	54.8	25

Pipe Clips


U bolt

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329



P170

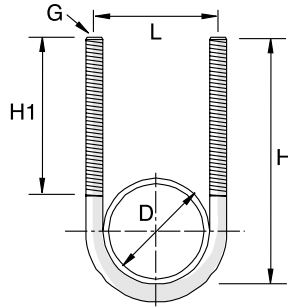
Pipe Clips

Art.Nr.	D Inch	D mm	G	L mm	H mm	H1 mm	KG /100	
170002102	1/2	21.3	M6	29	37	20	2	100
170002112	1/2	21.3	M8	31	37	20	3	100
170002702	3/4	26.9	M6	34	48	25	2	100
170002712	3/4	20	M8	36	64	36	4	100
170003402	1	33.7	M6	41	60	32	3	100
170003412	1	33.7	M8	44	44	30	5	100
170003422	1	33.7	M10	46	52	30	7	100
170004212	1 1/4	42.4	M8	52	67	35	7	100
170004222	1 1/4	42.4	M10	54	67	35	8	100
170004812	1 1/2	48.3	M8	57	78	40	8	100
170004822	1 1/2	48.3	M10	59	78	40	9	100
170006012	2	60.3	M8	71	90	35	9	100
170006022	2	60.3	M10	73	90	40	11	100
170006032	2	60.3	M12	75	90	35	16	100
170007622	2 1/2	76.1	M10	89	103	40	12	100
170007632	2 1/2	76.1	M12	91	105	35	18	50
170008922	3	88.9	M10	100	115	50	15	50
170008932	3	88.9	M12	102	115	38	20	50
170011422	4	100	M10	124	146	50	17	50
170011432	4	114.3	M12	126	144	50	27	50
170011442	4	100	M16	130	140	38	31	50
170013932	5	139.7	M12	156	173	60	30	25
170013942	5	139.7	M16	160	170	38	400	25
170016832	6	168.3	M12	182	198	60	33	25
170016842	6	168.3	M16	186	191	38	50	25
170021932	8	219.1	M12	236	255	60	46	25
170021942	8	219.1	M16	240	255	38	60	25
170027332	10	273	M12	290	313	38	60	5
170027342	10	273	M16	294	313	38	110	10
170027352	10	273	M20	298	313	38	180	10
170032432	12	323.9	M12	341	364	38	80	5
170032442	12	323.9	M16	345	364	38	130	1
170032452	12	323.9	M20	349	364	38	220	1




U bolt

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329



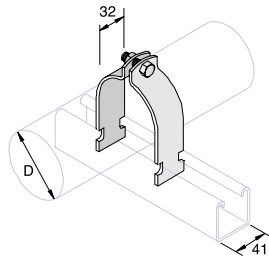
P171

Art.Nr.	D Inch	D mm	G	L mm	H mm	H1 mm	KG /100	
171002102	1/2	21.3	M6	29	97	70	3	100
171002112	1/2	21.3	M8	31	97	70	4	100
171002702	3/4	26.9	M6	34	109	70	4	100
171002712	3/4	26.9	M8	36	109	70	5	100
171003402	1	33.7	M6	41	111	70	5	100
171003412	1	33.7	M8	44	111	70	7	100
171003422	1	33.7	M10	46	111	70	10	100
171004212	1 1/4	42.4	M8	52	122	90	10	100
171004222	1 1/4	42.4	M10	54	122	90	12	100
171004812	1 1/2	48.3	M8	57	127	90	11	100
171004822	1 1/2	48.3	M10	59	127	90	13	100
171006012	2	60.3	M8	71	140	90	13	100
171006022	2	60.3	M10	73	140	90	15	100
171007622	2 1/2	76.1	M10	89	152	90	16	50
171008922	3	88.9	M10	100	168	90	19	50
171008932	3	88.9	M12	102	168	90	25	50
171011422	4	114.3	M10	124	193	90	21	50
171011432	4	114.3	M12	126	193	90	32	50
171013932	5	139.7	M12	156	213	90	36	25
171016832	6	168.3	M12	182	240	90	40	25
171016842	6	168.3	M16	186	240	90	70	25
171021932	8	219.1	M12	236	313	90	55	25
171021942	8	219.1	M16	240	313	90	90	25
171027332	10	273	M12	290	363	100	70	10
171027342	10	273	M16	294	363	100	150	10
171032432	12	323.9	M12	341	413	100	100	1
171032442	12	323.9	M16	345	413	100	200	1
171032452	12	323.9	M20	349	413	100	280	1


Pipe Clips

Pipe clamp for Unistrut channel

Material : Steel DX51D + Z275 - EN 10142



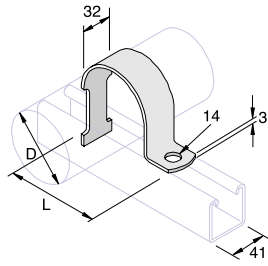
M1108-M1155

Art.Nr.	D mm	KG /100	
M1108	8.7-10.3	3.3	150
M1109	10.3-12.7	3.7	150
M1110	11.9-13.5	3.8	150
M1111	13.5-14.3	3.9	150
M1112	14.3-16.7	4	150
M1113	15.9-18.3	4.1	150
M1114	18.3-20.6	4.5	150
M1115	19.0-21.4	4.7	150
M1116	21.4-25.4	4.9	100
M1117	25.4-27.8	5.3	100
M1118	27.0-30.2	6.4	100
M1119	30.2-33.8	7.2	100
M1120	31.8-35.9	7.2	100
M1121	34.9-39.7	7.9	100
M1122	39.7-42.9	8.4	100
M1123	42.9-46.8	9	100
M1124	46.8-50.8	12.8	50
M1125	48.4-52.4	13.1	50
M1126	52.4-58.7	13.7	50
M1127	58.7-63.5	15	50
M1128	63.5-68.3	15.3	50
M1129	68.3-73.0	15.6	50
M1130	73.0-79.4	16	50
M1131	76.2-82.6	17.5	50
M1132	82.6-88.1	18.9	50
M1133	88.1-95.2	20.3	50
M1134	95.2-100.0	21.9	25
M1135	100.0-106.4	27	25
M1136	106.4-111.1	29.1	25
M1137	111.1-120.7	29.6	25
M1138	120.7-129.4	31.8	25
M1139	129.4-138.1	34	25
M1140	138.1-149.2	34.8	25
M1141	149.2-161.9	37.6	25
M1142	161.9-174.6	41	25
M1143	174.6-182.6	44.6	25
M1144	182.6-190.5	45	25
M1145	190.5-203.2	49.1	20
M1146	203.3-212.7	50.1	20
M1147	212.7-225.5	50.5	20
M1148	225.4-238.1	52.4	15
M1149	238.1-250.8	55.5	15
M1150	250.8-263.5	57.6	15
M1151	263.5-276.2	59	15
M1152	276.2-288.9	65	15
M1153	288.9-301.6	67.5	15
M1154	301.6-314.3	70	10
M1155	314.3-327.0	69.9	10



Pipe clamp for Unistrut channel

Material : Steel DD11 - EN 10111
Finish : Hot dip galvanised - EN ISO 1461: 1999

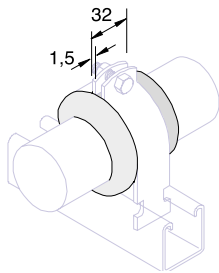


SS2A-SS2N

Art.Nr.	DN	D mm	L mm	KG /100	
SS2/AH	15	21.3	66	5.9	100
SS2/BH	20	26.9	73	7	100
SS2/CH	25	33.7	81	8.5	75
SS2/DH	32	42.4	90	10	75
SS2/EH	40	48.3	96	12.2	75
SS2/FH	50	60.3	96	13.5	40
SS2/GH	65	76.1	113	16.5	50
SS2/HH	80	88.9	125	18.9	50
SS2/JH	90	102	137	21.4	40
SS2/KH	100	114.1	150	24	25
SS2/LH	125	139.7	175	28.7	25
SS2/MH	150	168.3	204	34.2	25
SS2/NH	200	219.1	255	44.2	20

EPDM insulation for M11 and SS2 series clamps

Material : EPDM/SBR black; SHORE A = 45° ± 5°
Temperature durability:-50°C up to +110°C

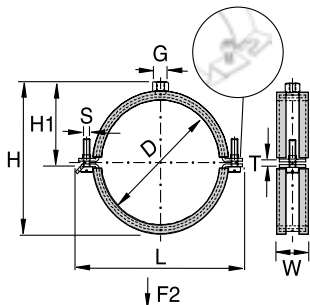


P2600 UNI-CUSHION


Art.Nr.	L mm		KG /100
P2600	8000	1	102

2 screw pipe clip stainless steel

Material : Stainless Steel - 1.4301 (304 ; A2)
 EPDM/SBR black; SHORE A = 45° ±5°
 Temperature durability: -40°C up to +100°C
 Sound insulation value on average 22 dB(A)



Standard-R-SS

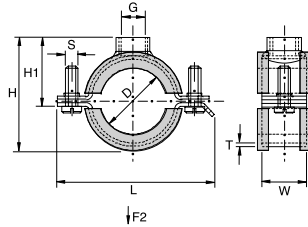
Art.Nr.	D Inch	D mm	G	L mm	W mm	H mm	H1 mm	T mm	S	F2 kN	KG /100	
1350152	-	14-17	M8	55	20	34	20	1	M5	0.6	3.6	100
1350182	3/8	17-20	M8	58	20	36	22	1	M5	0.6	3.8	100
1350222	1/2	21-24	M8	59	20	40	23	1	M5	0.6	4.5	100
1350282	3/4	27-30	M8	66	20	46	26	1	M5	0.6	4.9	100
1350352	1	33-36	M8	73	20	52	30	1	M5	0.6	5.6	100
1350402	-	38-41	M8	79	20	56	31	1	M5	0.6	5.5	100
1350422	1 1/4	42-45	M8	82	20	60	34	1	M5	0.6	6.3	50
1350482	1 1/2	48-51	M8	89	20	66	37	1	M5	0.6	6.2	50
1350542	-	54-57	M8	98	20	73	41	1.5	M5	1.4	8.4	50
1350602	2	59-62	M8	100	20	79	43	1.5	M5	1.4	9.7	50
1350702	-	67-72	M8/M10	116	25	94	53	1.5	M6	1.9	15.9	50
1350752	2 1/2	72-78	M8/M10	123	25	100	56	1.5	M6	1.9	15.5	50
1350882	3	84-89	M8/M10	134	25	108	61	2	M6	2.3	20.1	50
1351142	4	109-114	M8/M10	162	25	136	81	2	M6	2.3	24.3	50

Pipe Clips



2 screw pipe clip stainless steel

Material : Stainless Steel - 1.4301 (304 ; A2)
 EPDM/SBR black; SHORE A = 45° ±5°
 Temperature durability: -40°C up to +100°C
 Sound insulation value on average 22 dB(A)



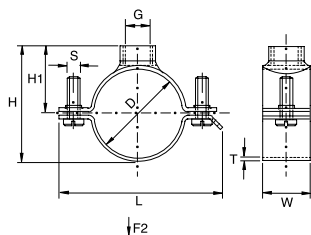
Massiv-R-SS

Art.Nr.	D Inch	D mm	G	L mm	W mm	H mm	H1 mm	T mm	S	F2 kN	KG /100	
1350183	3/8	14-20	M10	76	30	46	26	2	M8	5.7	12.6	25
1350223	1/2	20-26	M10	79	30	53	30	2	M8	5.7	13.8	25
1350283	3/4	25-31	M10	87	30	59	33	2	M8	5.7	14.9	25
1350353	1	32-38	M10	94	30	69	37	2	M8	5.7	17.0	25
1350423	1 1/4	40-46	M10	102	30	74	41	2	M8	5.7	18.7	25
1350483	1 1/2	48-54	M10	109	30	83	45	2	M8	5.7	20.3	25
1350543	-	53-55	M10	113	30	84	46	2	M8	5.7	21.0	25
1350603	2	56-62	M10	118	30	92	49	2	M8	5.7	22.2	25
1350761	2 1/2	72-78	M10	149	30	116	64	3	M10	3.8	41.4	1
1350763	2 1/2	72-78	M12	149	30	116	64	3	M10	3.8	41.4	1
1350891	3	86-91	M10	162	30	130	71	3	M10	3.8	44.9	1
1350893	3	86-91	M12	162	30	130	71	3	M10	3.8	44.9	1
1351141	4	108-116	M10	191	30	156	83	3	M10	3.8	51.8	1
1351143	4	108-116	M12	191	30	156	83	3	M10	3.8	51.8	1
1351251	-	122-130	M10	211	40	171	90	4	M10	4.85	90.6	1
1351253	-	122-130	M12	211	40	171	90	4	M10	4.85	90.6	1
1351351	-	132-140	M10	225	40	180	95	4	M10	4.85	95.5	1
1351353	-	132-140	M12	225	40	180	95	4	M10	4.85	95.5	1
1351451	5	139-147	M10	232	40	187	99	4	M10	4.85	103.6	1
1351453	5	139-147	M12	232	40	187	99	4	M10	4.85	103.6	1
1351601	-	157-165	M10	246	40	206	108	4	M10	4.85	109	1
1351603	-	157-165	M12	246	40	206	108	4	M10	4.85	109	1
1351681	6	165-170	M10	255	40	211	110	4	M10	4.85	111	1
1351683	6	165-170	M12	255	40	211	110	4	M10	4.85	111	1
1352101	-	208-216	M10	305	40	258	133	5	M10	8.6	146	1
1352103	-	208-216	M12	305	40	258	133	5	M10	8.6	146	1
1352191	8	216-224	M10	315	40	268	137	5	M10	8.6	167	1
1352193	8	216-224	M12	315	40	268	137	5	M10	8.6	167	1
1352671	10	265-275	M10	336	40	308	163	5	M10	8.6	195	1
1352673	10	265-275	M12	336	40	308	163	5	M10	8.6	195	1
1353261	12	322-333	M10	412	40	374	190	5	M10	8.6	230	1
1353263	12	322-333	M12	412	40	374	190	5	M10	8.6	230	1

Pipe Clips

2 screw pipe clip stainless steel

Material : Stainless Steel - 1.4301 (304 ; A2)



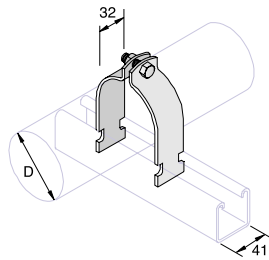
Massiv-N-SS

Art.Nr.	D Inch	D mm	G	L mm	W mm	H mm	H1 mm	T mm	S	F2 kN	KG /100	
1350184	3/8	14-20	M10	76	30	46	26	2	M8	5.7	9.8	25
1350224	1/2	20-26	M10	79	30	53	30	2	M8	5.7	10	25
1350284	3/4	25-31	M10	87	30	59	33	2	M8	5.7	10.7	25
1350354	1	32-38	M10	94	30	69	37	2	M8	5.7	12	25
1350424	1 1/4	40-46	M10	102	30	74	41	2	M8	5.7	13	25
1350484	1 1/2	48-54	M10	109	30	83	45	2	M8	5.7	14	25
1350544	-	53-55	M10	113	30	84	46	2	M8	5.7	14.3	25
1350604	2	56-62	M10	118	30	92	49	2	M8	5.7	15.5	25
1350760	2 1/2	72-78	M10	149	30	116	64	3	M10	3.8	32.2	1
1350764	2 1/2	72-78	M12	149	30	116	64	3	M10	3.8	32.2	1
1350890	3	86-91	M10	162	30	130	71	3	M10	3.8	34.8	1
1350894	3	86-91	M12	162	30	130	71	3	M10	3.8	34.8	1
1351140	4	108-116	M10	191	30	156	83	3	M10	3.8	41	1
1351144	4	108-116	M12	191	30	156	83	3	M10	3.8	41	1
1351250	-	122-130	M10	211	40	171	90	4	M10	4.85	70.3	1
1351254	-	122-130	M12	211	40	171	90	4	M10	4.85	70.3	1
1351350	-	132-140	M10	225	40	180	95	4	M10	4.85	75	1
1351354	-	132-140	M12	225	40	180	95	4	M10	4.85	75	1
1351450	5	139-147	M10	232	40	187	99	4	M10	4.85	103.6	1
1351454	5	139-147	M12	232	40	187	99	4	M10	4.85	75.6	1
1351600	-	157-165	M10	246	40	206	108	4	M10	4.85	109	1
1351604	-	157-165	M12	246	40	206	108	4	M10	4.85	84.5	1
1351680	6	165-170	M10	255	40	211	110	4	M10	4.85	111	1
1351684	6	165-170	M12	255	40	211	110	4	M10	4.85	96.2	1
1352100	-	208-216	M10	305	40	258	133	5	M10	8.6	146	1
1352104	-	208-216	M12	305	40	258	133	5	M10	8.6	125	1
1352190	8	216-224	M10	315	40	268	137	5	M10	8.6	167	1
1352194	8	216-224	M12	315	40	268	137	5	M10	8.6	129.4	1
1352670	10	265-275	M10	336	40	308	163	5	M10	8.6	195	1
1352674	10	265-275	M12	336	40	308	163	5	M10	8.6	182.7	1
1353260	12	322-333	M10	412	40	374	190	5	M10	8.6	230	1
1353264	12	322-333	M12	412	40	374	190	5	M10	8.6	220.1	1




Pipe Clamp for Unistrut Channel Stainless Steel

Material : Stainless Steel - 1.4404 - EN 10088-2

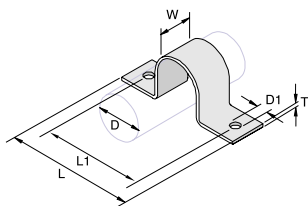


M1108-M1155-SS


Art.Nr.	D mm	KG /100	
M1108SS	8.7-10.3	5.1	150
M1109SS	10.3-12.7	5.3	150
M1110SS	11.9-13.5	5.4	150
M1111SS	13.5-14.3	5.5	150
M1112SS	14.3-16.7	5.7	150
M1113SS	15.9-18.3	5.8	150
M1114SS	18.3-20.6	5.9	150
M1115SS	19.0-21.4	6	150
M1116SS	21.4-25.4	8.1	100
M1117SS	25.4-27.8	8.3	100
M1118SS	27.0-30.2	8.5	100
M1119SS	30.2-33.8	8.8	100
M1120SS	31.8-35.9	9.4	100
M1121SS	34.9-39.7	9.6	100
M1122SS	39.7-42.9	9.5	100
M1123SS	42.9-46.8	9.8	100
M1124SS	46.8-50.8	14.6	50
M1125SS	48.4-52.4	14.7	50
M1126SS	52.4-58.7	15.0	50
M1127SS	58.7-63.5	15.6	50
M1128SS	63.5-68.3	15.9	50
M1129SS	68.3-73.0	16.3	50
M1130SS	73.0-79.4	16.8	50
M1131SS	76.2-82.6	17.1	50
M1132SS	82.6-88.1	17.1	50
M1133SS	88.1-95.2	17.9	50
M1134SS	95.2-100.0	21.5	25
M1135SS	100.0-106.4	21.9	25
M1136SS	106.4-111.1	22.4	25
M1137SS	111.1-120.7	24.7	25
M1138SS	120.7-129.4	25.5	25
M1139SS	129.4-138.1	31.4	25
M1140SS	138.1-149.2	31.8	25
M1141SS	149.2-161.9	33	25
M1142SS	161.9-174.6	38.1	25
M1143SS	174.6-182.6	38.8	25
M1144SS	182.6-190.5	39.5	25
M1145SS	190.5-203.2	40.0	20
M1146SS	203.3-212.7	41.1	20
M1147SS	212.7-225.5	41.9	20
M1148SS	225.4-238.1	50.6	15
M1149SS	238.1-250.8	51.7	15
M1150SS	250.8-263.5	52.6	15
M1151SS	263.5-276.2	54.0	15
M1152SS	276.2-288.9	54.8	15
M1153SS	288.9-301.6	55.9	15
M1154SS	301.6-314.3	56.9	10
M1155SS	314.3-327.0	57.5	10

Pipe saddle

Material : Stainless Steel - 1.4301 (304 ; A2)



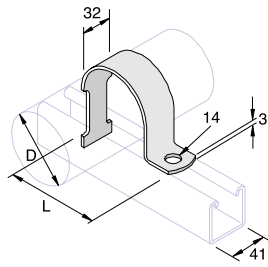
PS-SS

Art.Nr.	D Inch	DN	D1 mm	L mm	L1 mm	W mm	T mm	KG /100	
PS0154	1/2"	15	11	108	68	40	3	12	1
PS0204	3/4"	20	11	113	73	40	3	13	1
PS0254	1"	25	11	120	80	40	3	15	1
PS0324	1 1/4"	32	11	128	88	40	3	16	1
PS0404	1 1/2"	40	11	134	94	40	3	17	1
PS0504	2"	50	11	148	108	40	4	26	1
PS0654	2 1/2"	65	11	164	124	40	4	30	1
PS0804	3"	80	11	177	137	40	4	35	1
PS1004	4"	100	14	202	162	40	4	47	1
PS1254	5"	125	14	231	191	40	6	69	1
PS1504	6"	150	14	260	220	40	6	80	1
PS2004	8"	200	14	301	261	40	6	130	1
PS2504	10"	250	18	385	335	50	6	190	1
PS3004	12"	300	18	435	385	50	6	220	1



Pipe clamp for Unistrut channel stainless steel

Material : Stainless Steel - 1.4404 - EN 10088-2



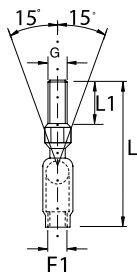
SS2A-SS2N-SS

Art.Nr.	DN	D mm	L mm	KG /100	
SS2/ASS	15	21.3	66	6.1	100
SS2/BSS	20	26.9	73	7.2	100
SS2/CSS	25	33.7	81	9.3	100
SS2/DSS	32	42.4	90	10.2	75
SS2/ESS	40	48.3	96	11.5	75
SS2/FSS	50	60.3	96	13.8	40
SS2/GSS	65	76.1	113	16.8	50
SS2/HSS	80	88.9	125	19.3	50
SS2/JSS	90	102	137	21.8	25
SS2/KSS	100	114.1	150	24.5	40
SS2/LSS	125	139.7	175	30	25
SS2/MSS	150	168.3	204	34.9	25
SS2/NSS	200	219.1	255	45.1	20


Rod swivel

Material : Steel DD11 - EN 10111

Finish : Electro zinc plated - EN ISO 12329



RS

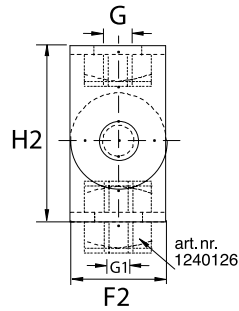
Art.Nr.	G	L mm	L1 mm	F1 kN	KG /100	
1240856	M8	56	15	2.5	3	100
1240866	M8	60	15	2.5	4	100
1241075	M10	75	18	3.5	6	100
1241085	M10	85	18	3.5	7	100
1241294	M12	95	20	5.5	10	100




Adjustable angle fittings with sound insulation

Material : Steel DD11 - EN 10111; Nut DIN928; Bolt OST36-3

Finish : Electro zinc plated - EN ISO 12329



GHML

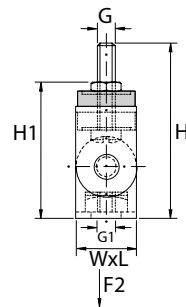
Art.Nr.	G	G1	L mm	W mm	H mm	F2 kN	KG /100	
1240086	M8	M8	25	36	45	5.7	11.4	100
1240106	M10	M10	25	36	45	5.7	11.2	100
1240126	M12	M12	25	36	64	5.7	12.0	100




Adjustable angle fittings with sound insulation

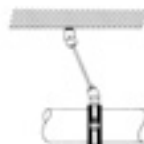
Material : Steel DD11 - EN 10111; Nut DIN928; Bolt OST36-3; EPDM

Finish : Electro zinc plated - EN ISO 12329



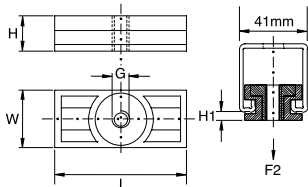
GHMR

Art.Nr.	G	G1	L mm	W mm	H mm	H1 mm	F2 kN	KG /100	
1240886	M8	M8	25	36	70	60	1	13.1	100
1248106	M8	M10	25	36	70	60	1	13.0	100



Slideblock for Unistrut channel

Material : Polyamid
 Steel 1.0715
 Finish : Electro zinc plated - DIN EN 12329



US

Art.Nr.	G	L mm	W mm	H mm	H1 mm	F2 kN	KG /100	
1241076	M10	80	35	21	4	3	6.8	10
1241276	M12	80	35	21	4	3	6.3	10

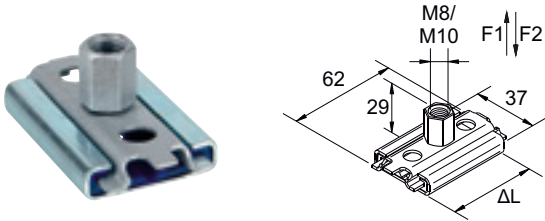
Fix Points & Slides





Slide guide type S

Material : Steel DD11 - EN 10111
Polyamide (PA) ; $\mu_0=0,18$ - $\mu=0,14$;
Tmax=+120°C
Finish : Electro zinc plated - EN ISO 12329

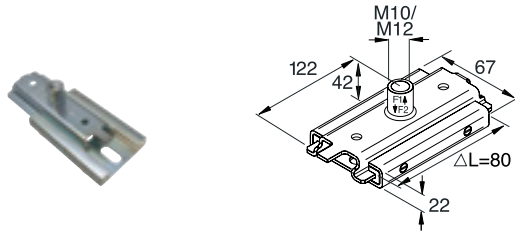


ES-1S

Art.Nr.	Delta L mm	F1 kN	F2 kN	KG /100	
1240810	42	0.7	0.7	7.6	50

Slide Guide Type M

Material : Steel DD11 - EN 10111
Polyamide (PA) ; $\mu_0=0,18 - \mu=0,14$;
Tmax=+120°C
Finish : Electro zinc plated - EN ISO 12329

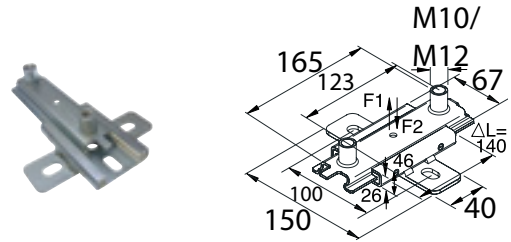


ES-1M

Art.Nr.	Delta L mm	F1 kN	F2 kN	KG /100	
1241291	80	2.3	2.3	40.4	10

Slide Guide Type M

Material : Steel DD11 - EN 10111
Polyamide (PA) ; $\mu_0=0,18 - \mu=0,14$;
Tmax=+120°C
Finish : Electro zinc plated - EN ISO 12329

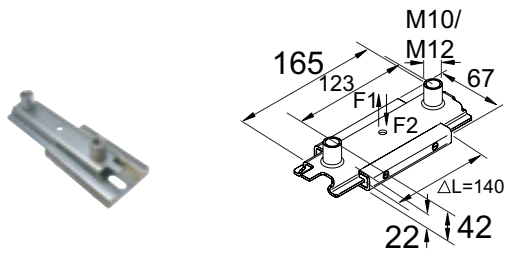


ES-2MV

Art.Nr.	Delta L mm	F1 kN	F2 kN	KG /100	
1241296	140	2.3	2.3	68.7	10

Slide Guide Type M

Material : Steel DD11 - EN 10111
Polyamide (PA) ; $\mu_0=0,18 - \mu=0,14$;
Tmax=+120°C
Finish : Electro zinc plated - EN ISO 12329

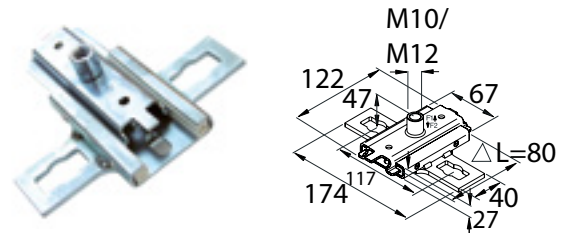


ES-2M

Art.Nr.	Delta L mm	F1 kN	F2 kN	KG /100	
1241292	140	2.3	2.3	48.7	10

Slide Guide Type M

Material : Steel DD11 - EN 10111
Polyamide (PA) ; $\mu_0=0,18 - \mu=0,14$;
Tmax=+120°C
Finish : Electro zinc plated - EN ISO 12329

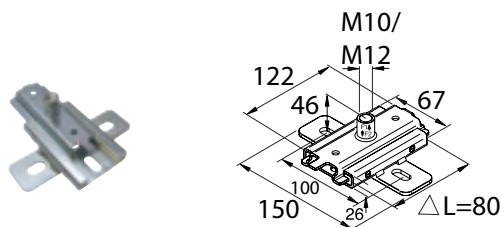


ES-1MQ

Art.Nr.	Delta L mm	F1 kN	F2 kN	KG /100	
1241235	80	2.3	2.3	69.7	10

Slide Guide Type M

Material : Steel DD11 - EN 10111
Polyamide (PA) ; $\mu_0=0,18 - \mu=0,14$;
Tmax=+120°C
Finish : Electro zinc plated - EN ISO 12329

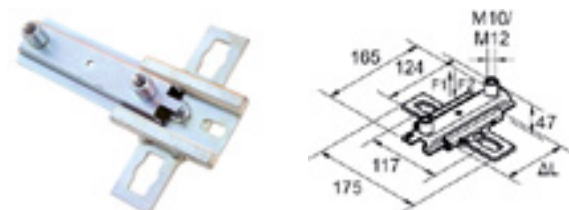


ES-1MV

Art.Nr.	Delta L mm	F1 kN	F2 kN	KG /100	
1241295	80	2.3	2.3	60.0	10

Slide Guide Type M

Material : Steel DD11 - EN 10111
Polyamide (PA) ; $\mu_0=0,18 - \mu=0,14$;
Tmax=+120°C
Finish : Electro zinc plated - EN ISO 12329



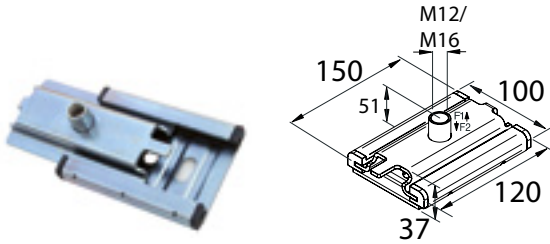
ES-2MQ

Art.Nr.	Delta L mm	F1 kN	F2 kN	KG /100	
1241255	140	2.3	2.3	76.3	10




Slide Guide Type H

Material : Steel DD11 - EN 10111
 Polyamphenylensulfid (PPS) ; $\mu=0,18$ - $\mu=0,14$; $T_{max}=+240^{\circ}C$
 Finish : Electro zinc plated - EN ISO 12329

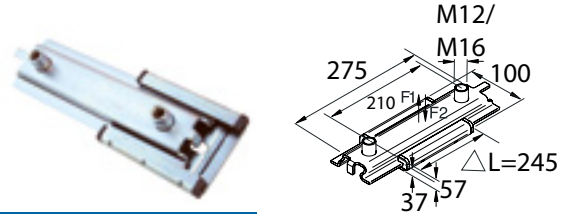


ES-1H


Art.Nr.	Delta L mm	F1 kN	F2 kN	KG /100	
1241668	120	5	9	109.0	10

Slide Guide Type H

Material : Steel DD11 - EN 10111
 Polyamphenylensulfid (PPS) ; $\mu=0,18$ - $\mu=0,14$; $T_{max}=+240^{\circ}C$
 Finish : Electro zinc plated - EN ISO 12329

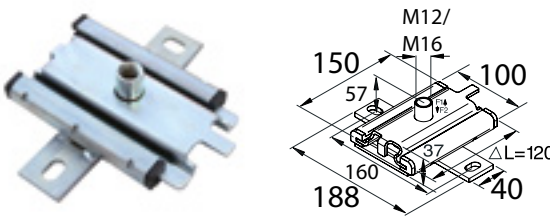


ES-2H

Art.Nr.	Delta L mm	F1 kN	F2 kN	KG /100	
1241628	245	5	9	151.1	10

Slide Guide Type H

Material : Steel DD11 - EN 10111
 Polyamphenylensulfid (PPS) ; $\mu=0,18$ - $\mu=0,14$; $T_{max}=+240^{\circ}C$
 Finish : Electro zinc plated - EN ISO 12329

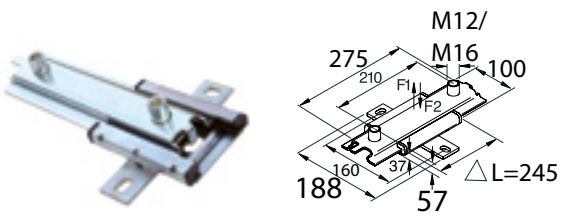


ES-1HV


Art.Nr.	Delta L mm	F1 kN	F2 kN	KG /100	
1241664	120	5	9	145.2	10

Slide Guide Type H

Material : Steel DD11 - EN 10111
 Polyamphenylensulfid (PPS) ; $\mu=0,18$ - $\mu=0,14$; $T_{max}=+240^{\circ}C$
 Finish : Electro zinc plated - EN ISO 12329



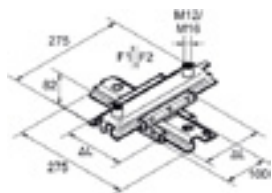
ES-2HV

Art.Nr.	Delta L mm	F1 kN	F2 kN	KG /100	
1241624	245	5	9	189.3	10


2-Way slide guide type Quadro

Material : Steel DD11- EN 10111
 1241293 = Polyamid (PA) $\mu=0,18$ - $\mu=0,14$; $T_{max}=+120^{\circ}\text{C}$
 1241693 = Polyamphenylensulfid (PPS) $\mu=0,18$ - $\mu=0,14$; $T_{max}=+240^{\circ}\text{C}$

Finish : Electro zinc plated - EN ISO 12329



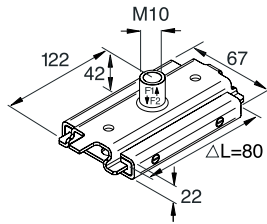
Quadro

Art.Nr.	Delta L mm	F1 kN	F2 kN	KG /100	
1241293	80	2.3	2.3	92.9	10
1241693	245	5.0	9.0	296.0	10




Slide guide type M stainless steel

Material : Stainless Steel - 1.4404 - EN 10088-2
Polyamide (PA) ; $\mu_0=0,18$ - $\mu=0,14$;
Tmax=+120°C

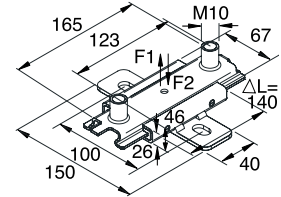


ES-1M-SS


Art.Nr.	Delta L mm	F1 kN	F2 kN	KG /100	
1352401	80	2.3	2.3	37.3	10

Slide guide type M stainless steel

Material : Stainless Steel - 1.4404 - EN 10088-2
Polyamide (PA) ; $\mu_0=0,18$ - $\mu=0,14$;
Tmax=+120°C

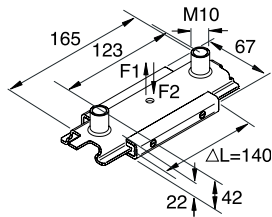


ES-2MV-SS


Art.Nr.	Delta L mm	F1 kN	F2 kN	KG /100	
1352406	140	2.3	2.3	64.5	10

Slide guide type M stainless steel

Material : Stainless Steel - 1.4404 - EN 10088-2
Polyamide (PA) ; $\mu_0=0,18$ - $\mu=0,14$;
Tmax=+120°C

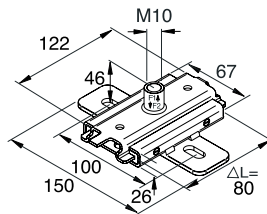


ES-2M-SS


Art.Nr.	Delta L mm	F1 kN	F2 kN	KG /100	
1352405	140	2.3	2.3	44.0	10

Slide guide type M stainless steel

Material : Stainless Steel - 1.4404 - EN 10088-2
Polyamide (PA) ; $\mu_0=0,18$ - $\mu=0,14$;
Tmax=+120°C

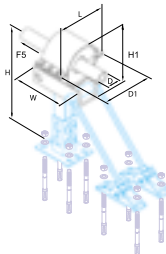
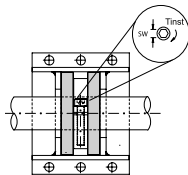


ES-1MV-SS


Art.Nr.	Delta L mm	F1 kN	F2 kN	KG /100	
1352402	80	2.3	2.3	58.0	10

Fix point Herkules

Material : Steel DD11 - EN 10111
 1501151 - 1501738: EPDM/SBR black; SHORE A = 45°±5°; T = -40°C - +100°C
 1502151 - 1502738: Silicon; SHORE A = 40°±5°; T = -50°C - +250°C
 Finish : Electro zinc plated - EN ISO 12329 + clamping ring nickel plated - EN 12540




HERKULES H

Art.Nr.	D Inch	D mm	D1 mm	L mm	W mm	H mm	H1 mm	F5 kN	Tinst Nm	Suitable for:	pcs.	SW mm	KG /100	
1501151	-	15	74	120	140	200-1000	115	3	15	fazii10/10-fazii12/10	4+1	5	151.4	1
1501181	3/8	18	74	120	140	200-1000	115	3	15	fazii10/10-fazii12/10	4+1	5	150.4	1
1501221	1/2	22	74	120	140	200-1000	115	3	15	fazii10/10-fazii12/10	4+1	5	148.9	1
1501281	3/4	28	74	120	140	200-1000	115	3	15	fazii10/10-fazii12/10	4+1	5	146.3	1
1501352	1	35	92	140	140	200-1000	135	5	15	fazii10/10-fazii16/10	4+1	5	179.4	1
1501422	1 1/4	42	92	140	140	200-1000	135	5	15	fazii10/10-fazii12/10	4+1	5	173.9	1
1501483	1 1/2	48	125	175	160	200-1000	170	10	30	fazii10/10-fazii16/10	4+2	6	363.6	1
1501543	-	54	125	175	160	200-1000	170	10	30	fazii10/10-fazii16/10	4+2	6	363.9	1
1501573	-	57	125	175	160	200-1000	170	10	30	fazii10/10-fazii16/10	4+2	6	356.8	1
1501603	2	60	125	175	160	200-1000	170	10	30	fazii10/10-fazii16/10	4+2	6	351.9	1
1501764	2 1/2	76	150	205	180	200-1000	190	15	30	fazii10/10-fazii16/20	4+4	6	516.7	1
1501894	3	89	150	205	180	200-1000	190	15	30	fazii10/10-fazii16/20	4+4	6	490.9	1
1501145	4	114	205	280	200	200-1000	260	20	60	fazii10/10-fazii20/30	4+4	8	956.4	1
1501405	5	140	205	280	200	200-1000	260	20	60	fazii10/10-fazii20/30	4+4	8	869.8	1
1501686	6	168	275	355	200	310-1000	318	30	-	fazii10/10-fazii20/60	4+8	-	2087	1
1501197	8	219	324	404	200	330-1000	369	30	-	fazii10/10-fazii20/60	4+8	-	2240	1
1501738	10	273	407	487	200	370-1000	454	30	-	fazii10/10-fazii20/60	4+8	-	3340	1
1502151	-	15	74	120	140	200-1000	115	3	15	fazii10/10-fazii12/10	4+1	5	179.6	1
1502181	3/8	18	74	120	140	200-1000	115	3	15	fazii10/10-fazii12/10	4+1	5	178.8	1
1502221	1/2	22	74	120	140	200-1000	115	3	15	fazii10/10-fazii12/10	4+1	5	539.3	1
1502281	3/4	28	74	120	140	200-1000	115	3	15	fazii10/10-fazii12/10	4+1	5	144.7	1
1502352	1	35	92	140	140	200-1000	135	5	15	fazii10/10-fazii16/10	4+1	5	177.4	1
1502422	1 1/4	42	92	140	140	200-1000	135	5	15	fazii10/10-fazii12/10	4+1	5	173.7	1



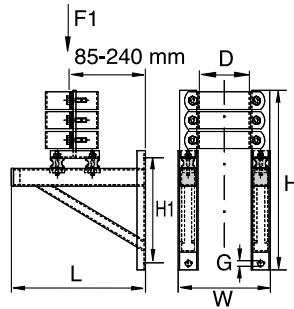
Fix point Herkules

Material : Steel DD11 - EN 10111
 1501151 - 1501738: EPDM/SBR black; SHORE A = 45°±5°; T = -40°C - +100°C
 1502151 - 1502738: Silicon; SHORE A = 40°±5°; T = -50°C - +250°C
 Finish : Electro zinc plated - EN ISO 12329 + clamping ring nickel plated - EN 12540


Art.Nr.	D Inch	D mm	D1 mm	L mm	W mm	H mm	H1 mm	F5 kN	Tinst Nm	Suitable for:	pcs.	SW mm	KG /100	
1502483	1 1/2	48	125	175	160	200-1000	170	10	30	fazii10/10- fazii16/10	4+2	6	363.6	1
1502543	-	54	125	175	160	200-1000	170	10	30	fazii10/10- fazii16/10	4+2	6	361.9	1
1502573	-	57	125	175	160	200-1000	170	10	30	fazii10/10- fazii16/10	4+2	6	360.8	1
1502603	2	60	125	175	160	200-1000	170	10	30	fazii10/10- fazii16/10	4+2	6	351.5	1
1502764	2 1/2	76	150	205	180	200-1000	190	15	30	fazii10/10- fazii16/20	4+4	6	514.5	1
1502894	3	89	150	205	180	200-1000	190	15	30	fazii10/10- fazii16/20	4+4	6	486.3	1
1502145	4	114	205	280	200	200-1000	260	20	60	fazii10/10- fazii20/30	4+4	8	878.2	1
1502405	5	140	205	280	200	200-1000	260	20	60	fazii10/10- fazii20/30	4+4	8	797.6	1
1502686	6	168	275	355	200	310-1000	318	30	-	fazii10/10- fazii20/60	4+8	-	1590	1
1502197	8	219	324	404	200	330-1000	369	30	-	fazii10/10- fazii20/60	4+8	-	2200	1
1502738	10	273	407	487	200	370-1000	454	30	-	fazii10/10- fazii20/60	4+8	-	3210	1

Vertical fix point

Material : Steel DD11 - EN 10111 & S280JR - EN10025
 Finish : Electro zinc plated - EN ISO 12329



VFP-KON

Art.Nr.	D Inch	G	L mm	W mm	H mm	H1 mm	F1 kN	KG /100	
1300521	2 1/2	13	210	185	395	158	10	82.99	1
1300523	2 1/2	13	310	175	420	240	8	947.5	1
1300531	3	13	210	195	395	158	10	838.9	1
1300533	3	13	310	190	420	240	8	956.5	1
1300541	4	13	210	215	395	158	10	858.8	1
1300543	4	13	310	210	420	240	8	971.6	1

Fix Points & Slides




Fix point for cooling pipes

Material : Steel DD11 - EN 10111
Polyurethane 250 kg/m³; W=0.041W/mK; μ=2500
Finish : Electro zinc plated - EN ISO 12329



GKSFP


Art.Nr.	DN	W mm	T mm	F1 kN	KG /100	
GKSFP07630	65	10	30	1.9	174	1
GKSFP08930	80	10	30	2.1	200	1
GKSFP11440	100	10	40	3.0	390	1
GKSFP13340	125	10	40	3.6	418	1
GKSFP13940	125	15	40	4.9	448	1
GKSFP15940	150	15	40	5.1	495	1
GKSFP16840	150	15	40	5.6	528	1
GKSFP21960	200	15	60	9.3	1580	1
GKSFP27360	250	20	60	12.8	1720	1
GKSFP32460	300	20	60	14.6	2300	1
GKSFP36860	350	20	60	16.8	2600	1
GKSFP40660	400	20	60	18.0	2800	1
GKSFP45760	450	20	60	19.5	3000	1
GKSFP50860	500	20	60	21.7	3300	1
GKSFP60960	600	20	60	25.4	3750	1

Fix Point for cooling pipes

Material : Steel DD11 - EN 10111

Finish : Electro zinc plated - EN ISO 12329

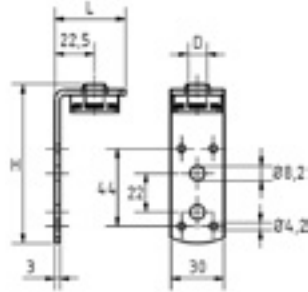
**GKSDUK**

Art.Nr.	DN	W mm	KG /100	
GKSDUK114	100	120	1.9	1
GKSDUK133	125	120	2	1
GKSDUK139	125	120	2	1
GKSDUK159	150	120	2.3	1
GKSDUK168	150	120	2.3	1
GKSDUK219	200	200	5.94	1
GKSDUK273	250	200	6.8	1
GKSDUK324	300	200	8.76	1
GKSDUK368	350	200	9.26	1
GKSDUK406	400	240	12.4	1
GKSDUK457	450	240	13.56	1
GKSDUK508	500	240	14.74	1
GKSDUK609	600	240	17.01	1




Ventilation duct bracket Type L with sound insulator

Material : Steel DX51D+Z275 - EN 10327
 1470407:EPDM/SBR black; SHORE A = 45°±5°
 1470507:TPE bleu; SHORE A = 45°±5°- Temp durability -40°C up to +120°C - value on average 8 dB(A)
 1473000: DD11, electro zinc plated; Rivet Al 99.5 - 12x0.5x30mm DIN7340A; washer 40x13x1,5mm DIN522C; Rubber 40x12x10mm DIN ISO 3302-1 E2/EC2

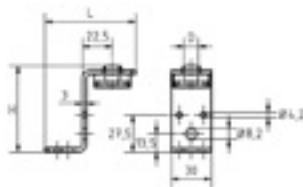
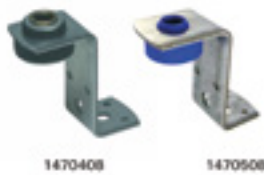


VDBL


Art.Nr.	D mm	L mm	H mm	F2 kN	KG /100	
1470407	8.5	40	93	1.5	9.0	100
1470507	10.5	40	90	1.0	8.5	100

Ventilation duct bracket Type Z with sound insulator

Material : Steel DX51D+Z275 - EN 10327
 1470408:EPDM/SBR black; SHORE A = 45°±5°
 1470508:TPE bleu; SHORE A = 45°±5°- Temp durability -40°C up to +120°C - value on average 8 dB(A)

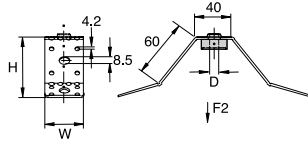


VDBZ


Art.Nr.	D mm	L mm	H mm	F2 kN	KG /100	
1470408	8.5	65	70	1.5	9.0	100
1470508	10.5	68	64	1	8.5	100

Ventilation duct bracket with sound insulator

Material : Steel DX51D+Z275 - EN 10327
 TPE bleu; SHORE A = 45° ± 5°
 Temperature durability: -40°C bis +120°C - value on average 8 dB(A)



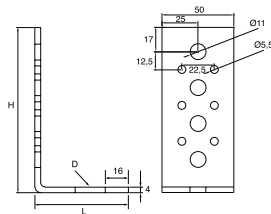
VDBT

Art.Nr.	D mm	G	W mm	F2 kN	KG /100		H mm
1470800	9	M8	40	0.6	14.4	100	60
1471000	11	M10	40	0.6	14.8	100	60



Heavy duty duct bracket

Material : Steel DD11 - EN 10111
 Finish : Electro zinc plated - DIN EN 12329




1473000



VDBH

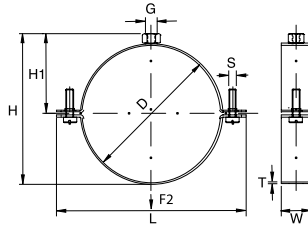
VDBH

Art.Nr.	L mm	H mm	LxW mm	KG /100	
1472000	65	95	21x11	17.2	25
1473000	65	108	40x11	23.0	25



Duct clamp

Material : Steel DX51D+Z275 - EN 10327

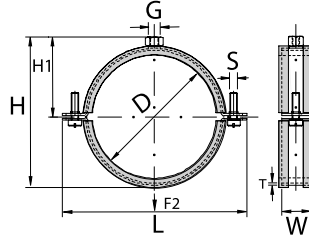


AIR-N

Art.Nr.	DN	D mm	G	L mm	W mm	H mm	H1 mm	T mm	S	F2 kN	KG /100	
1260808	80	84	M8/M10	122	25	94	51	1.5	M6	0.6	10.9	100
1261008	100	105	M8/M10	142	25	114	61	1.5	M6	0.6	13.5	100
1261258	125	130	M8/M10	167	25	139	73	1.5	M6	0.6	15.5	100
1261408	140	145	M8/M10	182	25	154	81	1.5	M6	0.6	15.5	100
1261508	150	155	M8/M10	192	25	164	86	1.5	M6	0.6	17.6	100
1261608	160	165	M8/M10	202	25	174	91	1.5	M6	0.6	18.5	100
1261808	180	185	M8/M10	222	25	194	101	1.5	M6	0.6	21.4	100
1262008	200	205	M8/M10	242	25	214	111	1.5	M6	0.6	22.1	100
1262248	224	229	M8/M10	266	25	238	123	1.5	M6	0.6	24.5	100
1262508	250	255	M8/M10	292	25	264	136	1.5	M6	0.6	27.0	50
1262808	280	285	M8/M10	322	25	294	151	1.5	M6	0.6	27.6	50
1263008	300	307	M8/M10	342	25	314	161	1.5	M6	0.6	31.5	50
1263158	315	322	M8/M10	357	25	329	169	1.5	M6	0.6	31.7	50
1263558	355	362	M8/M10	397	25	369	188	1.5	M6	0.6	36.3	50
1264008	400	407	M8/M10	442	25	419	211	1.5	M6	0.6	39.5	25
1264508	450	457	M8/M10	500	25	470	240	3	11 mm	2	88.3	1
1265008	500	507	M8/M10	560	25	520	260	3	11 mm	2	100.0	1
1265608	560	567	M8/M10	615	25	570	285	3	11 mm	2	110.0	1
1266008	600	608	M8/M10	665	25	610	310	3	11 mm	2	325.0	1
1266308	630	639	M8/M10	690	25	640	330	3	11 mm	2	124.1	1
1267108	710	719		770	25	725	370	3	11 mm	2	137.5	1
1268008	800	810		850	25	815	415	3	11 mm	2	153.7	1
1269008	900	910		955	30	925	470	3	11 mm	2.5	197.4	1
1261018	1000	1012		1065	30	1020	515	3	11 mm	2.5	218.9	1
1261138	1120	1132		1180	30	1135	570	3	11 mm	2.5	243.0	1
1261268	1250	1262		1295	30	1270	635	3	11 mm	2.5	268.9	1

Duct clamp with sound insulation

Material : Steel DX51D+Z275 - EN 10346
 EPDM/SBR black; SHORE A = 45° ± 5°
 Temperature durability: -40°C up to +100°C
 Sound insulation value on average 17 dB(A)



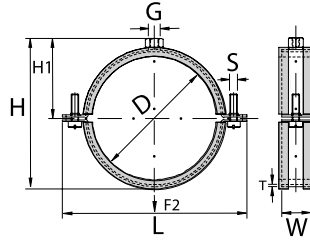
AIR-R

Art.Nr.	DN	D mm	G	L mm	W mm	H mm	H1 mm	T mm	S	F2 kN	KG /100	
1268207	71	75	M8/M10	121	25	102	60	1.5	M6	0.8	12.2	25
1268208	80	84	M8/M10	129	25	111	64	1.5	M6	0.8	13.1	25
1268209	90	94	M8/M10	139	25	121	69	1.5	M6	0.8	14.1	25
1268210	100	105	M8/M10	149	25	132	74	1.5	M6	0.8	15.2	25
1268211	112	117	M8/M10	161	25	144	80	1.5	M6	0.8	16.5	25
1268212	125	130	M8/M10	174	25	157	87	1.5	M6	0.8	17.9	25
1268214	140	145	M8/M10	190	25	173	94	1.5	M6	1.0	24.2	25
1268215	150	155	M8/M10	200	25	183	99	1.5	M6	1.0	25.8	20
1268216	160	165	M8/M10	211	25	194	105	1.5	M6	1.0	27.1	20
1268218	180	185	M8/M10	230	25	213	114	1.5	M6	1.0	29.3	15
1268220	200	205	M8/M10	250	25	233	124	1.5	M6	1.0	32.6	15
1268222	224	229	M8/M10	271	25	254	135	1.5	M6	1.0	35.3	10
1268225	250	255	M8/M10	300	25	283	149	1.5	M6	1.0	38.7	10
1268228	280	285	M8/M10	330	25	313	164	1.5	M6	1.0	40.0	10
1268230	300	307	M8/M10	351	25	333	174	1.5	M6	1.0	43.0	10
1268231	315	322	M8/M10	366	25	348	182	1.5	M6	1.0	48.3	10
1268235	355	362	M8/M10	406	25	388	202	1.5	M6	1.0	48.9	10
1268240	400	407	M8/M10	451	25	433	224	1.5	M6	1.0	58.6	10
1264509	450	457	M8/M10	515	25	475	240	3	M8	2	116.0	1
1265009	500	507	M8/M10	565	25	515	265	3	M8	2	128.8	1
1265609	560	567	M8/M10	635	25	585	300	3	M8	2	143.3	1
1266009	600	608	M8/M10	665	25	625	315	3	M8	2	152.5	1
1266309	630	639	M8/M10	695	25	655	335	3	M8	2	162.4	1
1267109	710	719		775	25	735	375	3	11 mm	2	182.8	1
1268009	800	810		860	25	820	420	3	11 mm	2	202.1	1
1269009	900	910		980	30	935	465	3	11 mm	2.5	274.5	1
1261019	1000	1012		1075	30	1020	510	3	11 mm	2.5	387.0	1
1261139	1120	1132		1180	30	1150	570	3	11 mm	2.5	342.8	1
1261269	1250	1262		1310	30	1280	630	3	11 mm	2.5	371.7	1



Duct clamp with sound insulation

Material : Stainless Steel A2-304 - 1.4301
 EPDM/SBR black; SHORE A = 45° ± 5°
 Temperature durability: -40°C up to +100°C
 Sound insulation value on average 17 dB(A)

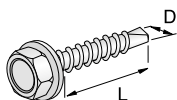


AIR-R-SS

Art.Nr.	DN	D mm	G	L mm	W mm	H mm	H1 mm	T mm	S	F2 kN	KG /100	
1358108	80	84	M8	129	25	111	64	1.5	M6	0.8	13.4	100
1358110	100	105	M8	149	25	132	74	1.5	M6	0.8	15.6	100
1358112	125	130	M8	174	25	157	87	1.5	M6	0.8	18.3	100
1358114	140	145	M8	190	25	173	94	1.5	M6	1.0	24.7	100
1358115	150	155	M8	200	25	183	99	1.5	M6	1.0	26.4	100
1358116	160	165	M8	211	25	194	105	1.5	M6	1.0	27.7	100
1358118	180	185	M8	230	25	213	114	1.5	M6	1.0	29.9	50
1358120	200	205	M8	250	25	233	124	1.5	M6	1.0	33.3	50
1358122	224	229	M8	271	25	254	135	1.5	M6	1.0	36.1	50
1358125	250	255	M8	300	25	283	149	1.5	M6	1.0	39.5	50
1358128	280	285	M8	330	25	313	164	1.5	M6	1.0	40.8	50
1358130	300	307	M8	351	25	333	174	1.5	M6	1.0	43.9	50
1358131	315	322	M8	366	25	348	182	1.5	M6	1.0	49.3	50
1358135	355	362	M8	406	25	388	202	1.5	M6	1.0	49.9	50
1358140	400	407	M8	451	25	433	224	1.5	M6	1.0	59.8	25

Self drilling screw DIN7504K

Material : Steel DD11 - EN 10111

**DIN7504K**

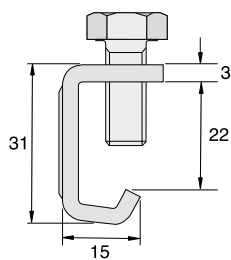
Art.Nr.	D mm	L mm	KG /100	
750453513	3.5	13	0.1	1000
750453516	3.5	16	0.1	1000
750453519	3.5	19	0.1	1000
750453522	3.5	22	0.2	1000
750453913	3.9	13	0.1	1000
750453916	3.9	16	0.2	1000
750453919	3.9	19	0.2	1000
750453922	3.9	22	0.2	1000
750454213	4.2	13	0.2	1000
750454216	4.2	16	0.2	1000
750454219	4.2	19	0.2	1000
750454222	4.2	22	0.2	1000
750454813	4.8	13	0.2	1000
750454816	4.8	16	0.2	1000
750454819	4.8	19	0.3	1000
750454822	4.8	22	0.3	1000
750454825	4.8	25	0.3	1000
750456319	6.3	19	0.5	1000
750456322	6.3	22	0.6	1000
750456325	6.3	25	0.6	1000
750456332	6.3	32	0.8	1000

Ventilation & Airconditioning Supports

Ventilation duct clamp

Material : Steel DD11 - EN 10111

Finish : Electro zinc plated - DIN EN 12329

**VDC**

Art.Nr.	KG /100	
VDC	5	200



Soft PVC duct tape

Material : Soft PVC



TPVC

Art.Nr.	L m	W mm	KG /100	
TPVC50	10	50	13	80

Reinforced duct tape

Material : Polyethylene



TRR

Art.Nr.	L m	W mm	KG /100	
TRR50	50	50	94	18

Duct sealing tape

Material : Polyethylene (DIN 53577)



TPS

Art.Nr.	L m	W mm	T mm	KG /100	
TPS15-4	100	15	4	5	1
TPS155	100	15	5	6	1
TPS196	100	19	6	9	1
TPS9-4	100	9	4	3	1

Cold shrink tape

Material : Aluminium flashing tape

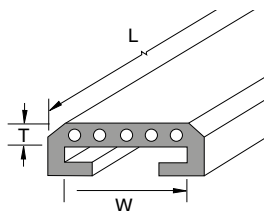


TCS


Art.Nr.	L m	W mm	KG /100	
TCS50	15	50	92	24

Rubber pipe clip lining EPDM

Material : EPDM/SBR black; SHORE A = $45^\circ \pm 5^\circ$
 Temperature durability: -40°C bis $+100^\circ\text{C}$
 Sound insulating value on average: 22dB(A)

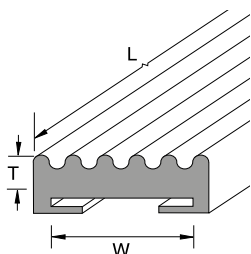


EPDM


Art.Nr.	L m	W mm	T mm	KG /100	
1313185	100	18	3.5	870	1
1313204	30	30	6	840	1
1314205	50	20	5	850	1
1314255	25	25	4.5	525	1
1316254	30	25	6	840	1
1316401	30	40	6	1320	1
ISO5	20	50	6	1000	1

Rubber pipe clip lining silicon

Material : Silicon red; SHORE A = $40^\circ \pm 5^\circ$
 Temperature durability: -50°C bis $+250^\circ\text{C}$
 Sound insulating value on average: 15,4 dB(A)

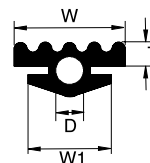


Silicon


Art.Nr.	L m	W mm	T mm	KG /100	
1313720	50	20	3.7	500	1
1313725	50	25	3.7	830	1
1316025	30	25	6	567	1
ISO4S	20	40	4	350	1
ISO5S	20	50	6	1000	1

Rubber sound insulation for UNI channels

Material : EPDM/SBR black; SHORE A = $45^\circ \pm 5^\circ$
 Temperature durability: -50°C bis $+110^\circ\text{C}$

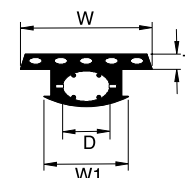


UNI

Art.Nr.	L m	W mm	W1 mm	T mm	KG /100	
1318301	30	32	23	6.5	900	1

Rubber sound insulation for UNISTRUT channels

Material : EPDM/SBR black; SHORE A = $45^\circ \pm 5^\circ$
 Temperature durability: -50°C bis $+110^\circ\text{C}$



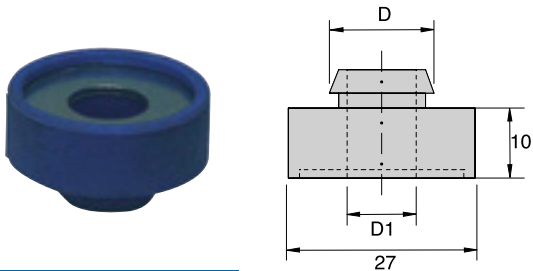
UNISTRUT

Art.Nr.	L m	W mm	W1 mm	T mm	KG /100	
1318341	30	39	25	5	1100	1




Sound insulator

Material : TPE blue; SHORE A = 45° ± 5°
Value on average 8 dB(A)
Temperature durability: -40°C bis +120°C
Steel DX51D + Z275 - EN 10327

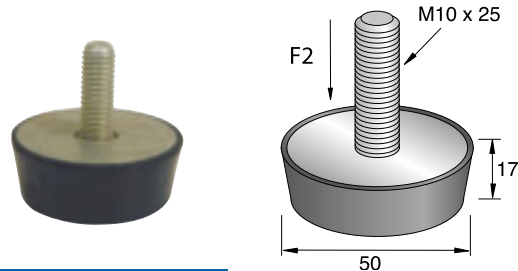


GLP


Art.Nr.	D mm	D1 mm	KG /100	
1315080	12	8.5	0.9	100
1315100	14	10.5	0.8	100

Rubber anti-vibration parts

Material : EPDM/SBR black; SHORE A = 55° ± 5°
Steel DD11 - EN 10111

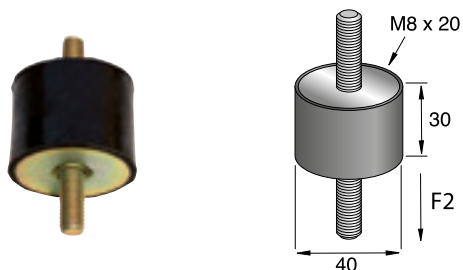


GRKD5017


Art.Nr.	F2 kN	KG /100	
GRKD5017	2	130	1

Rubber anti-vibration parts

Material : EPDM/SBR black; SHORE A = 55° ± 5°
Steel DD11 - EN 10111



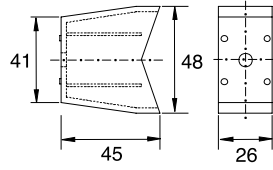
GR60050

Art.Nr.	F2 kN	KG /100	
GR60050	1.2	90	50



Nameplate with cover & fixing strap

Material : Steel DX51D + Z275 - EN 10142
Chrome 1.4016 - PA - Acrylic glass

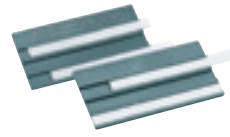


NP-STRAP

Art.Nr.	KG /100	
2130012	12.4	25

Plastic back plate

Material : PS

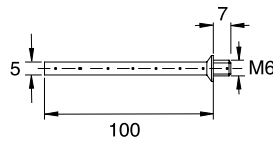


BP-PLASTIC


Art.Nr.	Color	KG /100	
2130413	red	1	100
2130423	blue	1	100
2130433	green	1	100
2130453	yellow	1	100
2130463	white	1	100
2130473	grey	1	100
2130513	shiny white	1	100

Nameplate with cover for welding

Material : Steel DX51D + Z275 - EN 10142
Acrylic glass

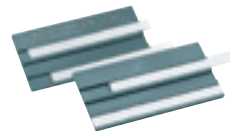


NP-WELD

Art.Nr.	KG /100	
2130000	2	25
2130023	8.1	25

Plastic text insert

Material : PS

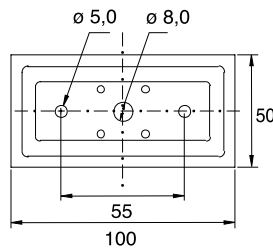


INSERT

Art.Nr.	KG /100	
2130483	0.2	1
2138000	0.2	1
2138010	0.2	1

Nameplate with cover for bolt fixing

Material : Steel DX51D + Z275 - EN 10142
Acrylic glass



NP-BOLT

Art.Nr.	KG /100	
2130033	5.8	25

// Fixings //

8 Beam, roof & purlin fixings



Fixings onto steel beams
Page 208



Fixings onto steel roofs & purlins
Page 211

9 Anchors & Plugs



Light Duty Anchors
Page 216



Mechanical Heavy Duty Drop in Anchors
Page 219



Mechanical Heavy Duty Wedge Anchor
Page 223



Drills & Holesaw
Page 228



Cavity fixing
Page 230



Concrete screws
Page 232



Perforated steel band
Page 235



10 General Fixings



Bolts Galvanised
Page 236



Nuts Galvanised
Page 239



Washers Galvanised
Page 241



Threaded Rod, Studs & Tubes Galvanised
Page 242



Rod connectors and reducers Galvanised
Page 244



Wood fixings Galvanised
Page 246



Eye Screws Galvanised
Page 248



Bolts Hot Dip Galvanised
Page 250



Nuts Hot Dip Galvanised
Page 251



Washers Hot Dip Galvanised
Page 252



Threaded Rod, Studs & Tubes Hot Dip Galvanised
Page 253



Rod connectors and reducers Hot Dip Galvanised
Page 254



Bolts Stainless Steel
Page 255



Nuts Stainless Steel
Page 256



Washers Stainless Steel
Page 257



Threaded Rod, Studs & Tubes Stainless Steel
Page 258



Rod connectors and reducers Stainless Steel
Page 259

11 Couplings & accessories



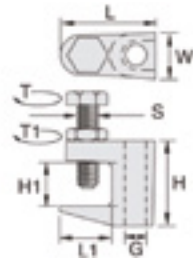
Couplers for ductile iron pipe
Page 260




Temporary construction plugs
Page 260

Beam clamp

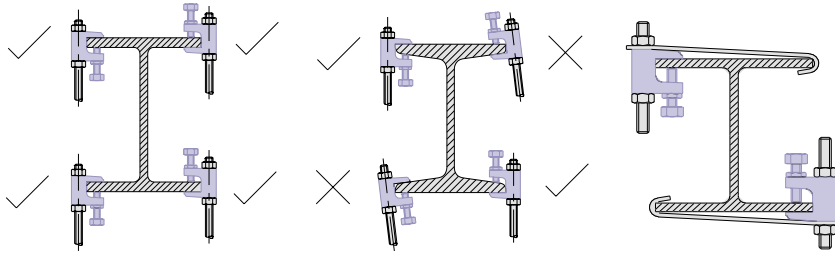
Material : Malleable Iron - EN 1562-1997
Finish : Electro zinc plated - EN ISO 12329



UBC

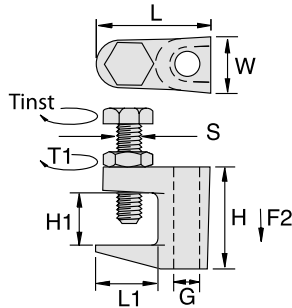
Art.Nr.	G	L mm	L1 mm	W mm	H mm	H1 mm	S	F1 kN	Tinst Nm	T1 mm	FM	VdS	KG /100	
UBC6T	M6	36	20	19	35	17	M8	1.1	8	11			8.5	50
UBC8D	9	36	20	19	35	17	M8	1.1	8	11		y	8.5	50
UBC8T	M8	36	20	19	35	17	M8	1.1	8	11		y	8.5	50
UBC10D	11	45	22	22	40	19	M10	2.4	8	22	y	y	15.1	50
UBC10T	M10	45	22	22	40	19	M10	2.4	8	22	y	y	15.7	50
UBC12D	13	50	28	25	46	23	M10	3.1	8	22	y	y	21.2	25
UBC12T	M12	50	28	25	46	23	M10	3.1	8	22	y	y	20.9	25
UBC16D	17	58	30	30	58	28	M12	5.5	8	22	y	y	31.8	50
UBC16T	M16	58	30	30	58	28	M12	5.5	8	22	y	y	31.8	50

Beam, roof & purlin fixings




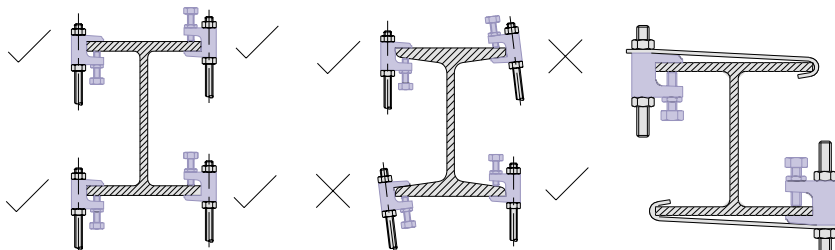
Beam clamp

Material : Malleable Iron - EN 1562-1997
Finish : Electro zinc plated - EN ISO 12329



Type 91

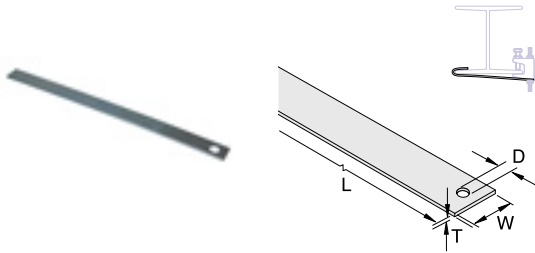
Art.Nr.	G	L mm	L1 mm	W mm	H mm	H1 mm	S	F1 kN	Tinst Nm	T1 mm	FM	VdS	KG /100	
91M102	M10	45	26	19	51	33	M10	2.6	8	22	y	y	22.4	50
91M112	11	45	26	19	51	33	M10	2.6	8	22	y	y	22.4	50
91M122	M12	49	27	28	60	33	M12	4.4	8	22	y	y	38	50
91M132	13	49	27	28	60	33	M12	4.4	8	22	y	y	38	50






Retaining strap

Material : Steel DX51D+Z275 - EN 10327



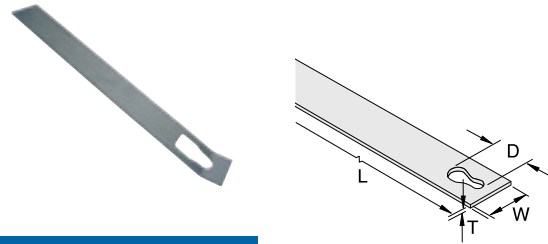
Strap

Art.Nr.	D mm	L mm	W mm	T mm	KG /100	
STRAPM10	11	300	21	2.5	11.8	50
STRAPM12	13	300	30	2.5	17.7	50
STRAPM16	17	300	40	3	28.3	50


Strap-FLS

Material : Steel DD11 - EN 10111

Finish : Electro zinc plated - DIN EN 12329



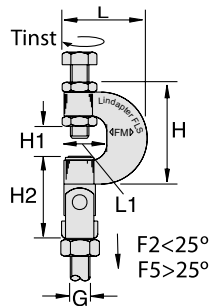
Strap-FLS

Art.Nr.	D mm	L mm	W mm	T mm	KG /100	
STRAPFLS	45	305	40	3	24.7	10


Articulated beam clamp

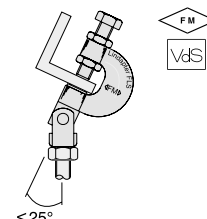
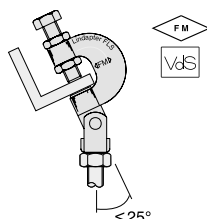
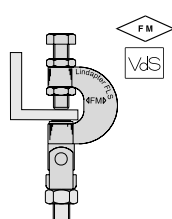
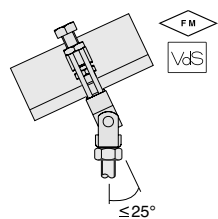
Material : Steel DD11 - EN 10111

Finish : Electro zinc plated - EN ISO 12329



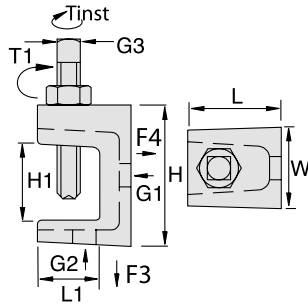
FLS

Art.Nr.	G	L mm	L1 mm	H mm	H1 mm	H2 mm	F2 kN	F5 kN	Tinst Nm	FM	VdS	KG /100	
FLS08	M8	53	27	58	17	55	2.5	1.5	18		y	27.1	25
FLS10	M10	53	27	58	17	55	2.5	1.5	18	y	y	27.1	25



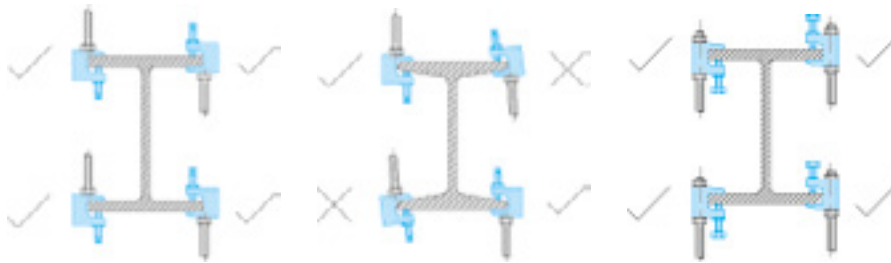
Light duty beamclamp

Material : Malleable Iron - EN 1562-1997
 Finish : Electro zinc plated - EN ISO 12329



LC

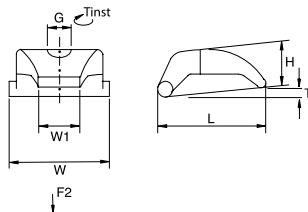
Art.Nr.	G	G1	G2	L mm	H mm	H1 mm	F3 kN	F4 kN	Tinst Nm	T1 mm	KG /100	
LCLIP	M6	M6	M6	24	35	20	0.59	0.18	4	5	6.4	100




Beam, roof & purlin fixings

Beam clamp for 41mm width channel

Material : Cast iron - GGG-40
 Finish : Electro zinc plated - DIN EN 12329



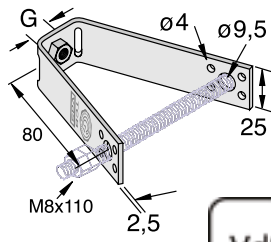
P

Art.Nr.	G	L mm	W mm	W1 mm	H mm	T mm	F2 kN	Tinst Nm	KG /100	
1391075	10.5	48.5	43.5	16	20	1.0-25.0	4.5	55	10	10
1391275	12.5	65.5	51.5	20	27	1.0-35.0	8	95	22	10
1391675	17	65	63	24	32	1.0-35.0	9	125	24	10



Trapeze ceiling fixing

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - EN ISO 12329



TCB

Art.Nr.	G	FM	VdS	KG /100	
TCB8	M8	-	y	11.1	100
1460408	M8 HR	-	-	11.6	100
TCB10	M10	y	y	12.1	100
1460410	M10 HR	-	-	11.5	100
TCBN12	13	-	-	10.0	25

TCB10

Material : Trapeze Bracket DD11 – EN 10111
Channel: S280 => Z275 – EN1034
End Cap: Polyethylene
Finish : Electro zinc plated

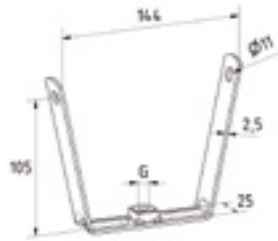


TCB10

Art.Nr.	G	A mm	L mm	G /100	
1460452	M10	250	300	900	100
1460552	M10	280	350	998	100
1460652	M10	310	350	998	100
1460752	M10	420	450	1265	100
1460453	M10	250	550	1618	100
1460653	M10	310	650	1836	100
1460654	M10	250	800	2239	100

TCC

Material : Steel DX51D+z275 – en10327 8 Db(A)
Finish : Electro zinc plated

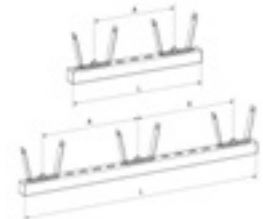


TCC


Art.Nr.	G	F2 kN	KG /100	
1460510	M8	Y	17.10	50
1460505	M10	Y	16.90	50

TCC10

Material : Steel DX51D+Z275 - EN 10327
8 dB(A)
Finish : Electro zinc plated - EN ISO 12329



TCC10

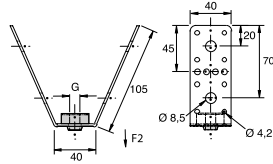
Art.Nr.	G	A mm	L mm	G /100	
1460462	M10	250	400	900	100
1460562	M10	280	450	998	100
1460662	M10	310	450	998	100
1460762	M10	420	550	1265	100
1460463	M10	250	650	1618	100
1460663	M10	310	750	1836	100

Trapeze ceiling fixing

Material : Stahl DX51D+Z275 - EN 10327

8 dB(A)

Finish : Electro zinc plated - EN ISO 12329



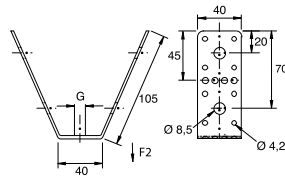
TCAB

Art.Nr.	G	F2 kN	KG /100	
1460308	8.5	2	14.8	100
1460310	10.5	2	14.6	100

Beam, roof & purlin fixings

Trapeze ceiling fixing

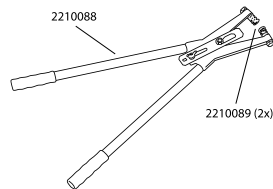
Material : Steel DX51D+Z275 - EN 10327



TCABNR

Art.Nr.	G	F2 kN	KG /100	
1460510	10.5	2	14.1	100

Lochzange



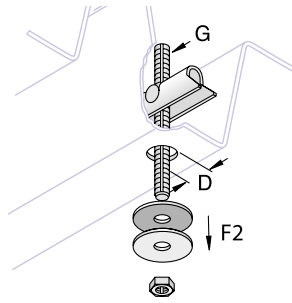
PERFO

Art.Nr.	L mm		KG /100
2210088	700	1	247
2210089	-	2	9



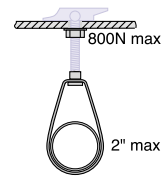
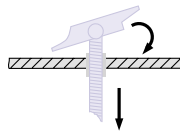
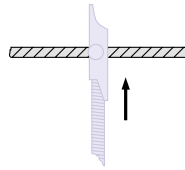
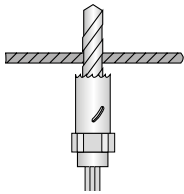
Tipping dowel for hollow ceilings

Material : Steel DX51D+Z275 - EN 10327



TD

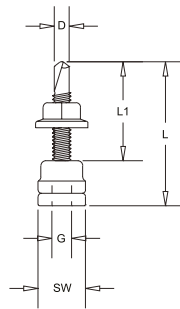
Art.Nr.	D mm	G	F2 kN	FM	VdS	KG /100	
1740065	15	M6x85	0.8			4.8	100
TDM8X100	22	M8x100	0.8		y	10.7	100
TDM8X200	22	M8x200	0.8		y	13.9	100
TDM8X300	22	M8x300	0.8		y	16.3	50
TDM8X500	22	M8x500	0.8		y	24.3	50
TDM10X100	25	M10x100	0.8	y	y	13.1	50
TDM10X200	25	M10x200	0.8	y	y	18.2	50



Sammy M10 vertical for steel roofs with nut

Material : Carbon Steel

Finish : Electro Zinc



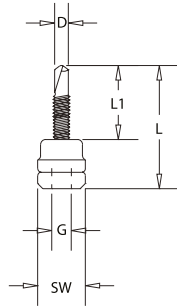
DSTR-1

Art.Nr.	G	L mm	L1 mm	SW mm	FM	KG /100	
8159957	M10	52	37	16	y	2.8	25

Beam, roof & purlin fixings

Sammy M10 vertical for steel roofs

Material : Carbon Steel
Finish : Electro Zinc



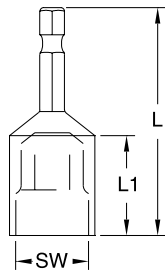
TEK50

Art.Nr.	G	L mm	L1 mm	SW mm	FM	KG /100	
8176957	M10	40	25.4	16	y	2.5	25


Beam, roof & purlin fixings

Sammy vertical installation socket

Material : Carbon Steel



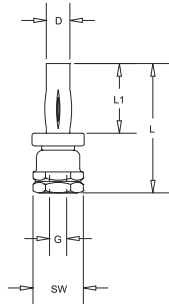
#14

Art.Nr.	L mm	L1 mm	SW mm	KG /100	
8113910	61	33	16	10	10



Sammy X-press M10 for steel roofs

Material : Carbon Steel
Finish : Electro Zinc



XP20

Art.Nr.	G	L mm	L1 mm	do mm	SW mm	FM	KG /100	
8188957	M10	47	25	10	16	y	3.8	25

Sammy X-press installation Tool

Material : Carbon Steel
Finish : Electro Zinc

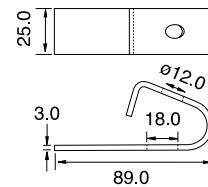


XP-IT

Art.Nr.	KG /100	
8194910	10	5

Z Purlin clamp

Material : Steel DX51D+Z275 - EN 10327

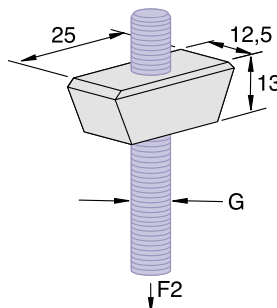


Z

Art.Nr.	KG /100	
Z10U	6.4	100

V Nut

Material : Steel DD11 - EN 10111



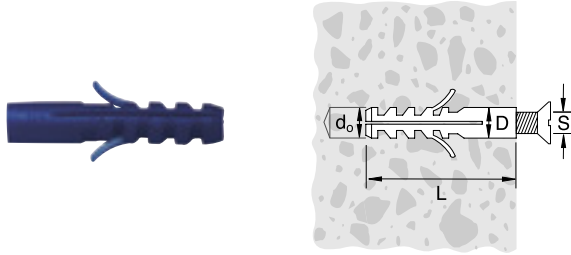
VN

Art.Nr.	G	F2 kN	KG /100	
VN08	M8	2	1.8	500
VN10	M10	2.1	1.8	500

Beam, roof & purlin fixings

Nylon anchor

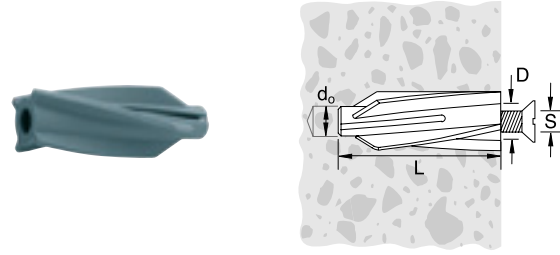
Material : Polyamid (PA)



W						
Art.Nr.	D mm	L mm	S	do mm	KG /100	
1720066	6	30	3.5-5.0	6	0.1	200
1720086	8	40	4.5-5.0	8	0.1	100
1720105	10	50	6.0-8.0	10	0.3	50
1720123	12	60	8.0-10.0	12	0.5	25
1720143	14	75	10.0-12.0	14	0.8	20

Anchor for light concrete

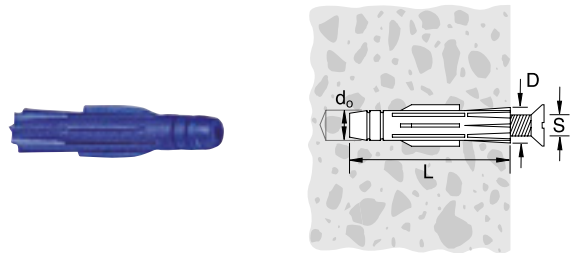
Material : Nylon light grey



GB						
Art.Nr.	D mm	L mm	S	do mm	KG /100	
1781086	18	50	5	8	0.4	25
1781106	20	55	7	10	0.7	20
1781146	24	74	10	14	1.3	10

Anchor for light concrete and hollow brickwalls

Material : Polypropylene (PP)

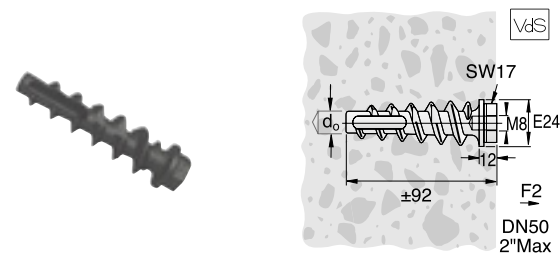


SH						
Art.Nr.	D mm	L mm	S	do mm	KG /100	
2356366	6	36	4.0-5.0	6	0.1	200
2358515	8	50	6.0-7.0	8	0.2	100
2351065	10	60	7.0-8.0	10	0.3	50
2351276	12	70	8.0-10.0	12	0.4	25

Breeze concrete dowel

Material : Cast Iron

Finish : Electro zinc plated



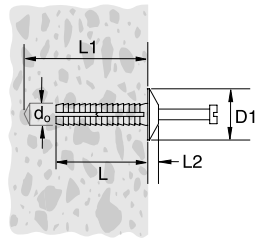
LBD					
Art.Nr.	F2 kN	do mm	VdS	KG /100	
LBD	2	12	y	9.8	50

Anchors & Plugs



Anchor for light concrete

Material : Steel
Nylon black
Finish : Electro zinc plated - DIN EN 12329

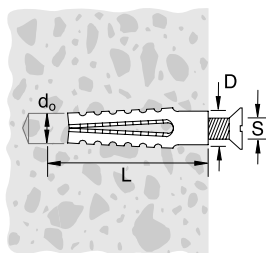


PD


Art.Nr.	D1 mm	L mm	L1 mm	L2 mm	do mm	KG /100	
1771358	13.5	35	38	3.5	6	0.4	500

Steel anchor

Material : Steel
Finish : Electro zinc plated - DIN EN 12329



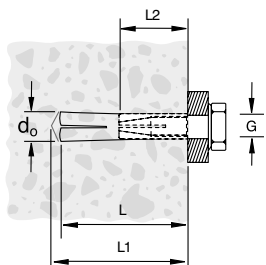
MD

Art.Nr.	D mm	L mm	S	do mm	KG /100	
1710166	6	32	6	8	0.2	100
1710186	8	38	8	11	0.5	100
1710180	8	60	8	11	0.9	50


Anchors & Plugs

Brass anchor

Material : Brass



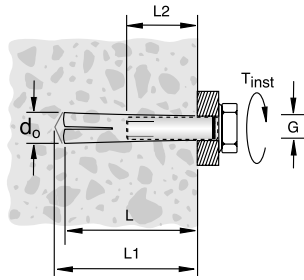
PO

Art.Nr.	G	L mm	F5 kN	do mm	KG /100	
1760082	M6	22	0.6	8	0.4	100
1760102	M8	27.5	1.1	11	0.9	100
1760122	M10	32	1.7	13	1.4	100
1760162	M12	38	2.3	16	2.4	100
1760202	M16	45	-	21.5	4.9	25




Non drill anchor

Material : Steel
Finish : Electro zinc plated

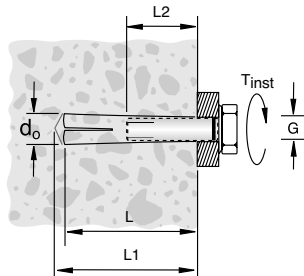


EA


Art.Nr.	G	L mm	L1 mm	L2 mm	F5 kN	do mm	Tinst Nm	FM	KG /100	
EAM6	M6	30	32	6-14	3.95	8	4		0.3	100
EAM8	M8	30	33	8-14	3.95	10	8		0.8	100
EAM8X40	M8	40	43	8-14	6.1	10	8		1.6	50
EAM10	M10	40	43	10-17	6.1	12	15	y	2.2	50
EAM10X30	M10	30	33	10-14	3.95	12	15	y	1.8	50
EAM12	M12	50	54	12-22	8.5	15	35	y	4.7	25
EAM16	M16	65	70	16-28	12.6	20	60	y	10	20
EAM20	M20	80	85	20-34	17.2	25	120	y	19	10

Non drill anchor stainless steel

Material : Stainless Steel A4

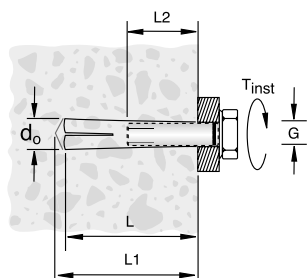


EA-SS


Art.Nr.	G	L mm	L1 mm	L2 mm	F5 kN	do mm	Tinst Nm	FM	KG /100	
EAM6SS	M6	30	32	6-14	3.95	8	4		5.5	100
EAM8SS	M8	30	33	8-14	3.95	10	8		1.2	100
EAM10SS	M10	40	43	10-17	6.1	12	15	y	2.2	50
EAM12SS	M12	50	54	12-22	8.5	15	35	y	4.7	25
EAM16SS	M16	65	70	16-28	12.6	20	60	y	10	20

EA II

Material : Steel
Finish : Electro zinc plated



EA II

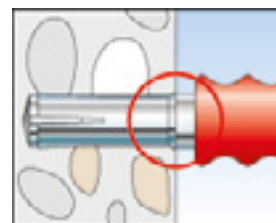
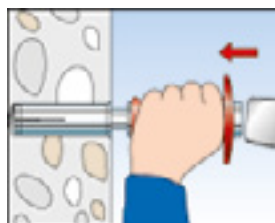
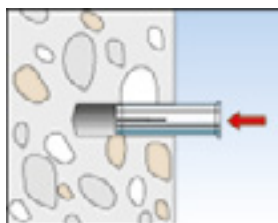
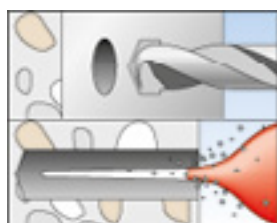
Art.Nr.	G	L mm	L1 mm	L2 mm	F5 kN	do mm	Tinst Nm	FM	KG /100	
EAM625	25	80	4.0	1.0	30	60	4		0.3	100
EAM6	30	80 / 100	4.0	1.2	65	115	8		0.8	100
EAM825	25	80 / 100	8.0	1.4	50	100	8		1.6	50
EAM8	30	80 / 100	8.0	2.07)	95	140	15	y	2.2	50
EAM8x40	40	80 / 100	8.0	2.07)	95	140	15	y	1.8	50
EAM1025	25	80 / 100	15.0	1.97)	60	100	35	y	4.7	25
EAM10x30	30	100 / 120	15.0	2.07)	85	140	60	y	10	20
EAM10	40	100 / 120	15.0	3.07)	95	160	120	y	19	10
EAM1225	25	80 / 100	35.0	1.97)	100	110				
EAM12	50	100 / 120	35.0	4.37)	145	200				

¹⁾ The partial safety factors for material resistance as regulated in the approval as well as a partial safety factor for load actions of $\gamma_L = 1.4$ are considered. As an single anchor counts e.g. an anchor with a spacing $s \geq 3 \times L$ and an edge distance $c \geq 1,5 \times L$.

²⁾ Minimum possible axial spacings resp. edge distance while reducing the permissible load.

³⁾ Valid for tensile load, shear load and oblique load under any angle. For combinations of tensile loads, shear loads, bending moments as well as reduced edge distances or spacings (anchor groups) see approval.


⁷⁾ When the spacing and edge distance will be increased the minimum member thickness can be reduced. Exact data see approval.



Setting tool for non drill anchor



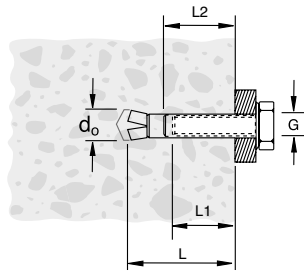
EAW

Art.Nr.	KG /100	
EAWH6	15.7	1
EAWH8	16.8	1
EAWH8X40	15.6	1
EAWH10	17.6	1
EAWH10X25	50	1
EAWH12	22.4	1
EAWH12X25	50	1
EAWH16	35.0	1
EAWH20	60.0	1




FZEA II

Material : Steel
Finish : Electro zinc plated

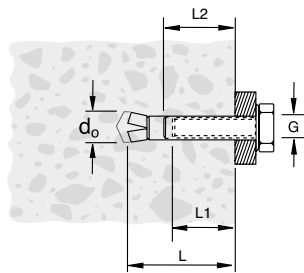


FZEA II


Art.Nr.	G	L mm	L1 mm	L2 mm	F5 kN	do mm	KG /100	
ZEA1040M8	M8	43	11	17	1.6	10	1.5	100
ZEA1240M10	M10	43	13	19	3	12	2	50
ZEA1440M12	M12	43	15	21	3.6	14	2.7	50

FZEA II SS

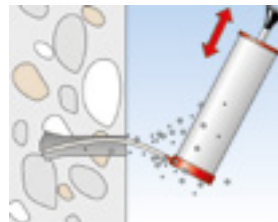
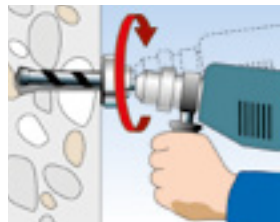
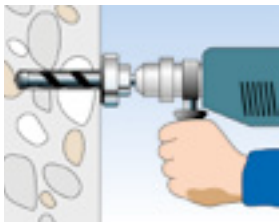
Material : Stainless Steel A4



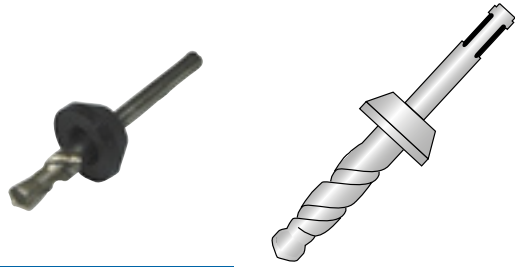
FZEA II SS

Art.Nr.	G	L mm	L1 mm	L2 mm	F5 kN	do mm	KG /100	
ZEA124M10S	M10	43	13	19	3	12	2	50
ZEA144M12S	M12	43	15	21	3.6	14	2.8	50


- 1) The partial safety factors for material resistance as regulated in the approval as well as a partial safety factor for load actions of $\gamma_L = 1,4$ are considered.
- 2) Minimum possible axial spacings resp. edge distance while reducing the permissible load.
- 3) For combinations of tensile loads, shear loads, bending moments as well as reduced edge distances or spacings (anchor groups) see approval.
- 4) For higher concrete strength classes up to C50/60 higher permissible loads may be possible.



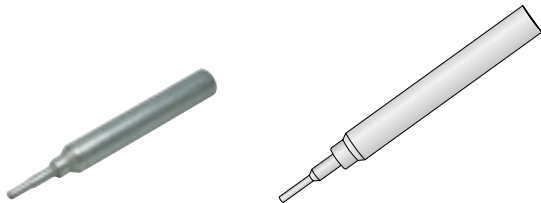
Drill for steel anchors type Zykon



ZUB

Art.Nr.	KG /100	
ZUB12X40	12.8	1
ZUB14X40	15.2	1
ZUB14X60	16.4	1
ZUB18X80	24	1
ZUB22X100	30	1
ZUB22X125	38	1

Setting tool for non drill anchor type Zykon



ZED

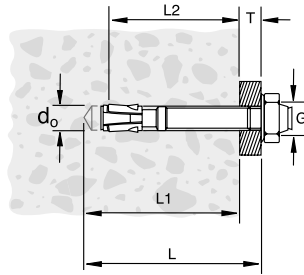
Art.Nr.	KG /100	
ZED10X40M8	15	1
ZED1240M10	24.8	1
ZED1440M12	26	1

Anchors & Plugs



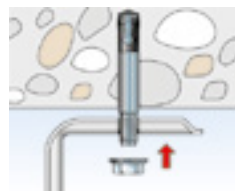
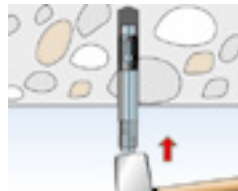
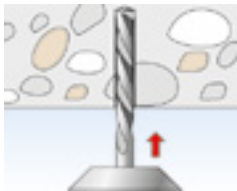
Fast fix anchors FNA II

Material : Steel
Finish : Electro zinc plated



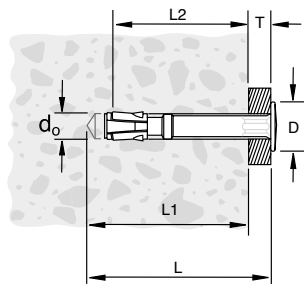
FNA-M8

Art.Nr.	G	L mm	L1 mm	L2 mm	T mm	F5 kN	do mm	KG /100	
NA6X4015M8	M8	45	40	30	5	1.6	6	1.5	100



Fast fix anchors FNA II-UNI

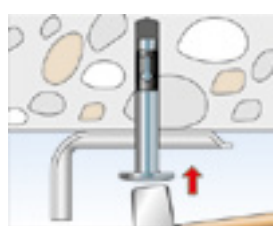
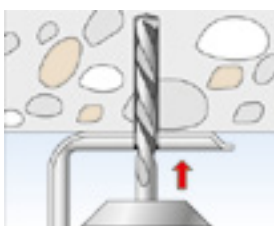
Material : Steel
Finish : Electro zinc plated



FNA-UNI

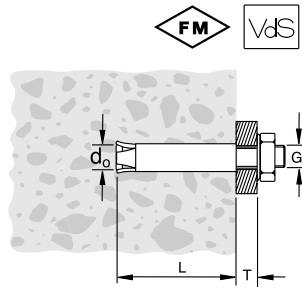
Art.Nr.	D mm	L mm	L1 mm	L2 mm	T mm	F5 kN	do mm	KG /100	
NA6X40S	13	45	40	30	5	1.6	6	1.5	100

- ¹⁾ The partial safety factors for material resistance as regulated in the approval as well as a partial safety factor for load actions of $\gamma_L = 1,4$ are considered.
- ²⁾ Minimum possible axial spacings resp. edge distance while reducing the permissible load.
- ³⁾ Valid for tensile load, shear load and oblique load under any angle. For combinations of tensile loads, shear loads, bending moments as well as reduced edge distances or spacings (anchor groups) see approval.
- ⁴⁾ Loads for concrete strength class C12/15 see approval.
- ⁵⁾ A fixing point is defined as a single anchor or a group of 2 or 4 anchors.




Steel anchors type Zykon

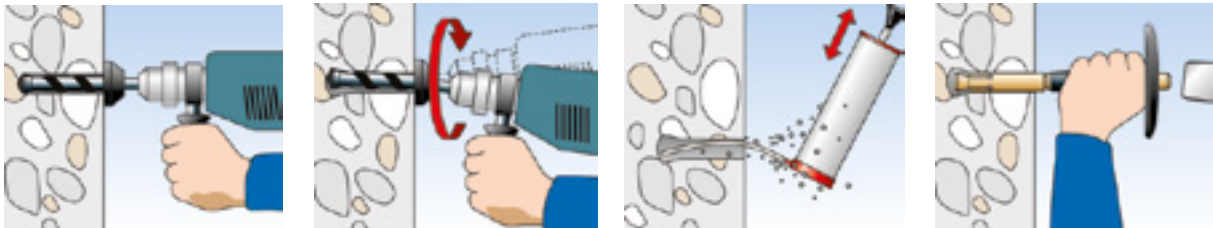
Material : Steel
Finish : Electro zinc plated



ZA

Art.Nr.	G	L mm	T mm	F5 kN	do mm	KG /100	
ZA1240M815	M8	40	15	2.38	12	5.1	25
ZA144M1025	M10	40	25	2.38	14	8.2	10
ZA146M1020	M10	60	20	5.71	14	10.5	10
ZA180M1225	M12	80	25	9.52	18	20.9	10
ZA2212M166	M16	100	60	19.04	22	49	10

- 1) The partial safety factors for material resistance as regulated in the approval as well as a partial safety factor for load actions of $\gamma_L = 1.4$ are considered.
- 2) Minimum possible axial spacings resp. edge distance while reducing the permissible load.
- 3) For combinations of tensile loads, shear loads, bending moments as well as reduced edge distances or spacings (anchor groups) see approval.
- 4) For higher concrete strength classes up to C50/60 higher permissible loads may be possible.



Anchors & Plugs




Setting tool for steel anchors type Zykon

Material : Steel

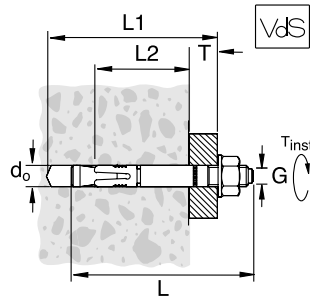


ZE


Art.Nr.	Suitable for:	KG /100	
ZE12	ZA12	30	1
ZE14	ZA14	30	1
ZE18	ZA18	30	1
ZE22	ZA22	40	100

Steel anchor FAZ

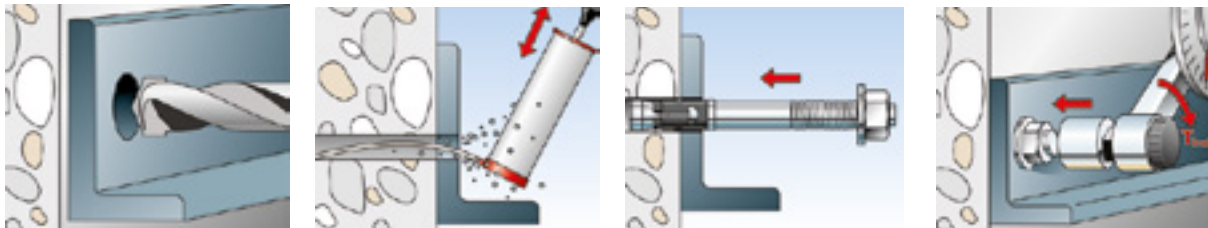
Material : Steel DD11 - EN 10111
Finish : Electro zinc plated



FAZ

Art.Nr.	G	L mm	L1 mm	L2 mm	T mm	F5 kN	do mm	Tinst Nm	SW mm	FM	KG /100	
1770801	M8	75	65	45	10	2.4	8	20	13		3.1	50
1770803	M8	95	85	45	30	2.4	8	20	13		3.8	50
1770805	M8	115	105	45	50	2.4	8	20	13		4.4	50
1771001	M10	95	85	60	10	4.3	10	45	17	y	6.2	50
1771003	M10	115	105	60	30		10	45	17		7.2	25
1771005	M10	135	125	60	50	4.3	10	45	17	y	8.1	20
1771201	M12	110	100	70	10	7.6	12	60	19	y	10.1	20
1771203	M12	130	120	70	30	7.6	12	60	19	y	11.5	20
1771205	M12	150	140	70	50	7.6	12	60	19	y	12.9	20
1771210	M12	200	190	70	100	7.6	12	60	19	y	16.4	20
1771216	M12	260	250	70	150	7.6	12	60	19	y	21.1	10
1771602	M16	148	135	85	25	13.4	16	110	24	y	23.5	10
1771605	M16	173	160	85	50	13.4	16	110	24	y	23.5	10

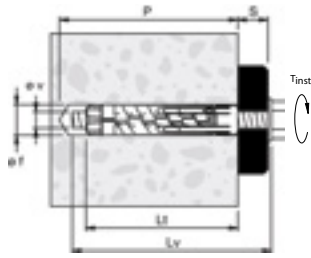
¹⁾ The partial safety factors for material resistance as regulated in the approval as well as a partial safety factor for load actions of $\gamma_L = 1.4$ are considered. As an single anchor counts e.g. an anchor with a spacing $s \geq 3 \times L2$ and an edge distance $c \geq 1.5 \times L2$. Accurate data see approval.
²⁾ Minimum possible axial spacings resp. edge distance while reducing the permissible load for the minimum member thickness ($t_{min} \geq 2 \times L2$). The combination of the given min. spacing and min. edge distance is not possible. One of them has to be increased according approval.
³⁾ For combinations of tensile loads, shear loads, bending moments as well as reduced edge distances or spacings (anchor groups) see approval.
⁴⁾ For higher concrete strength classes up to C50/60 higher permissible loads may be possible.
⁵⁾ According approval the minimum member thickness ($t_{min} \geq 2 \times HG$) can be reduced under specific conditions.






Expansion anchor with bolt and washer

Material : Steel; Bolt class 8.8




GMS

Art.Nr.	G	L mm	L1 mm	L2 mm	F5 kN	do mm	Tinst Nm	KG /100	
TAM6S	M6	50	60		4	12	10	5	50
TAM8S	M8	60	70		4.65	15	25	5	50
TAM10S	M10	80	80		5.9	18	45	5	25
TAM12S	M12	100	100		8.4	22	75	5	20
TAM16S	M16	120	130		13.4	29	120	5	50

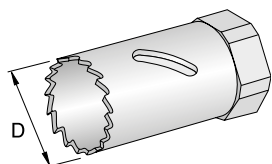
Holedrill




HOLEDRILL

Art.Nr.	D mm	KG /100	
HOLESACP	14-32	7	1
HOLESACP5	32-152	24	1

Holesaw

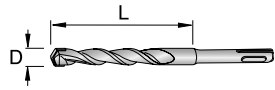


Holesaw


Art.Nr.	D mm	KG /100	
HOLESAW22	22	4.5	1
HOLESAW24	23	5.0	1
HOLESAW25	25	6.5	1
HOLESAW30	30	8.5	1
HOLESAW35	34	10	1
HOLESAW38	38	10.5	1
HOLESAW50	50	13	1
HOLESAW63	63	19	1
HOLESAW70	69	21	1
HOLESAW89	89	35.5	1
HOLESAW114	114	52.5	1



Drill for stone & concrete

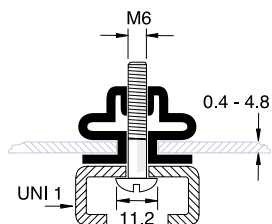


SDS

Art.Nr.	D mm	L mm	KG /100	
HW1121108	8	100	10	10
HW1121112	10	100	10	10
HW1121117	12	100	10	5
HW1121123	14	150	15	5
HW1121126	16	150	30	5
HW1121129	15	100	15	5
HW1121132	12	550	25	1
HW1121134	16	250	20	5
HW1121137	18	150	20	5
HW1121164	20	150	15	5

Jack nut cavity fixing

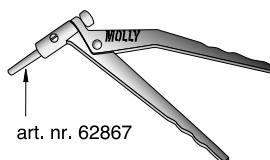
Material : Steel
Finish : Electro zinc plated



Jack Nut

Art.Nr.	KG /100	
8SJN	0.4	500

Jack nut cavity fixing tool



JN TOOL

Art.Nr.	KG /100	
62869	40.2	1

Hollow-ceiling anchor FH Y

Material : Steel
Finish : Electro zinc plated



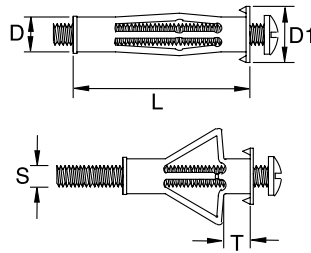
FHY

Type	Bohrenenddurchmesser do [mm]	Dübellänge L [mm]	Gewinde M	min. Bohrlochtiefe h1 [mm]	min. Einschraubtiefe lE,min [mm]	Verkaufseinheit St.
FHYM6	10	37	M6	50	37	50
FHYM8	12	43	M8	60	43	25
FHYM10	16	52	M10	65	52	20




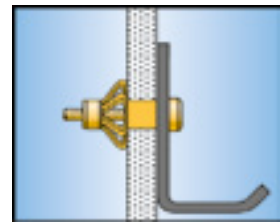
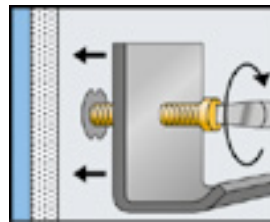
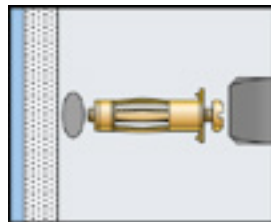
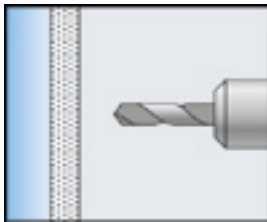
Cavity fixing

Material : Steel
Finish : Electro zinc plated



HM

Art.Nr.	D mm	D1 mm	L mm	T mm	S	do mm	KG /100	
1751412	8	13	32	3.0-14.0	M4x40	8	0.3	50
1751424	8	13	46	16.0-26.0	M4x52	8	0.5	50
1751516	10	16	52	3.0-16.0	M5x60	10	0.8	50
1751532	10	16	65	16.0-32.0	M5x73	10	1	50
1751616	12	18	52	3.0-16.0	M6x60	12	0.9	50
1751632	12	18	65	16.0-32.0	M6x70	12	1.2	50
1751816	12	18	55	3.0-16.0	M8x60	12	1	50



Cavity fixing tool

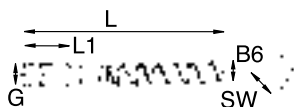


HM TOOL

Art.Nr.	KG /100	
2210099	64.7	1

Concrete screws

Material : Steel
Finish : Electro zinc plated

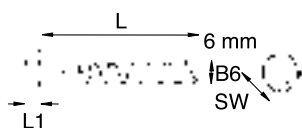


MMS-ST


Art.Nr.	D mm	G	L mm	L1 mm	F2 kN	do mm	SW mm	KG /100	
1860608	7.6	M8	75	16	0.5	6x65	10	1.8	50

Concrete screws

Material : Steel
Finish : Electro zinc plated

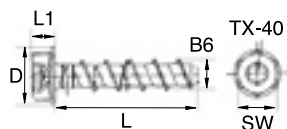
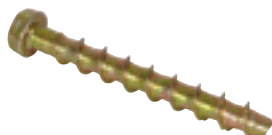


MMS-SW

Art.Nr.	D mm	D1 mm	L mm	L1 mm	F2 kN	do mm	SW mm	KG /100	
1860601	7.6		60	5	0.5	6x65	13	1.7	100
1860801	10.5		80	7	1.5	8x65	17	4	100
1861001	12.5		90	8	2.5	10x95	19	6.4	50

Concrete screws

Material : Steel
Finish : Electro zinc plated



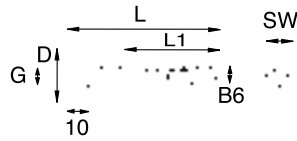
MMS-T

Art.Nr.	D mm	D1 mm	G	L mm	L1 mm	F2 kN	do mm	SW mm	KG /100	
1860861	10.6	19	tx-40	80	10	1.5	8x85	13	3.4	50




Concrete screws

Material : Steel
Finish : Electro zinc plated

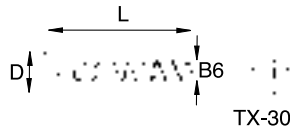


MMS-LBD

Art.Nr.	D mm	D1 mm	G	L mm	L1 mm	F2 kN	do mm	SW mm	KG /100	
1860610	7.6	25	M8/M10	85	60	0.5	6x65	13	3.8	50

Concrete screws

Material : Steel
Finish : Electro zinc plated

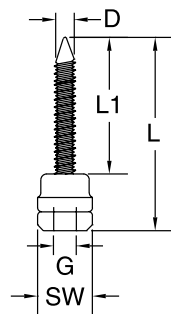


MMS-P

Art.Nr.	D mm	D1 mm	G	L mm	F2 kN	do mm	KG /100	
1860666	7.6	15	tx-30	60	0.5	6x65	1.6	100

Sammy M10 vertical for concrete

Material : Carbon Steel
Finish : Electro Zinc Plated



CST20

Art.Nr.	G	L mm	L1 mm	do mm	SW mm	FM	KG /100
8173957	M10	58	44.4	6.5	16	y	3

Sammy concrete installation kit



SCI-KIT

Art.Nr.	KG /100	
8122910	10	5



Perforated steel band, plastic coated

Material : Steel DX51D+Z275 - EN 10327 + Polyethylen black

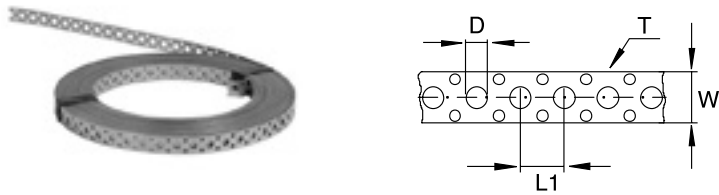


PSB-P

Art.Nr.	D mm	L m	L1 mm	W mm	T mm	F2 kN	KG/m	KG /100	
1541902	6.2	10	15	19	2.2	0.85	0.106	105.3	20
1542702	8.2	10	25	27	3	1.5	0.199	199.4	16

Perforated steel band

Material : Steel DX51D+Z275 - EN 10327 + Stainless Steel 1.4016 (1351702)

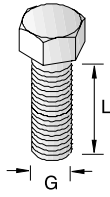



PSB

Art.Nr.	Material	D mm	L m	L1 mm	W mm	T mm	F2 kN	KG/m	KG /100	
1351702	SS 1.4016	6.5	10	15	17	0.8	0.85	0.09	60	10
1551202	DX51	5.4	10	15	12	0.5	0.5	0.04	105.3	10
1551702	DX51	6.5	25	15	17	0.8	0.85	0.09	225	8
1552502	DX51	8.5	10	25	25	1	1	0.166	166	16

Bolts DIN 933

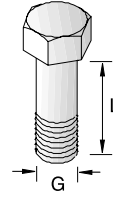
Material : Steel 8.8 DIN-EN-ISO 4017
Finish : Electro zinc plated


**DIN 933**

Art.Nr.	G	L mm	KG /100	
93356X12	M6	12	0.5	100
93356X16	M6	16	0.5	100
93356X20	M6	20	0.6	100
93356X25	M6	25	0.7	100
93356X30	M6	30	0.8	100
93356X35	M6	35	0.8	100
93356X40	M6	40	0.9	100
93356X60	M6	60	1.3	100
93358X20	M8	20	1.2	100
93358X25	M8	25	1.4	100
93358X30	M8	30	1.5	100
93358X35	M8	35	1.7	100
93358X40	M8	40	1.9	100
93358X45	M8	45	2	100
93358X50	M8	50	2.2	100
93358X60	M8	60	2.5	100
933510X20	M10	20	2.1	100
933510X25	M10	25	2.6	100
933510X30	M10	30	2.6	100
933510X40	M10	40	3.3	100
933510X50	M10	50	3.8	100
933510X60	M10	60	4.3	100
933510X80	M10	80	5.3	100
933510X100	M10	100	6.3	100
933510X120	M10	120	7.1	50
933512X22	M12	22	3.5	100
933512X25	M12	25	3.7	100
933512X30	M12	30	3.8	100
933512X40	M12	40	4.7	100
933512X50	M12	50	5.5	100
933512X60	M12	60	6.2	100
933512X80	M12	80	7.5	50
933512X100	M12	100	9.1	25
933516X30	M16	30	7.7	50
933516X40	M16	40	9	50
933516X50	M16	50	10.3	50
933516X60	M16	60	11.7	50
933516X80	M16	80	14.4	25
933516X100	M16	100	17	25

Bolts DIN 931

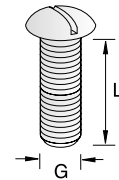
Material : Steel 8.8 DIN-EN-ISO 4014
Finish : Electro zinc plated


**DIN 931**

Art.Nr.	G	L mm	KG /100	
93158X70	M8	70	3.2	100
93158X100	M8	100	4.4	100
93158X110	M8	110	4.8	100
93158X160	M8	60	8.7	100
931512X60	M12	60	6.7	100
931516X60	M16	60	12.3	100
931516X65	M16	65	13.9	100
931516X70	M16	70	13.9	100
931516X75	M16	75	14.7	100
931516X80	M16	80	15.5	100

Bolts DIN 964

Material : Steel 4.6 DIN-EN-ISO 2010
Finish : Electro zinc plated

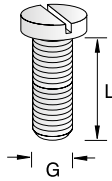
**DIN 964**

Art.Nr.	G	L mm	KG /100	
1754403	M4	40	0.3	100
1754553	M4	60	0.5	100
1755553	M5	60	0.8	100
1755703	M5	80	1	100




Bolts DIN 84

Material : Steel 4.6 DIN-EN-ISO 1207
Finish : Electro zinc plated

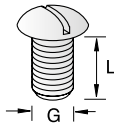


DIN 84


Art.Nr.	G	L mm	KG /100	
1756553	M6	60	1.3	100
1756703	M6	80	1.6	100

Bolts DIN 85A

Material : Steel DD11 4.6 DIN-EN-ISO 1580
Finish : Electro zinc plated

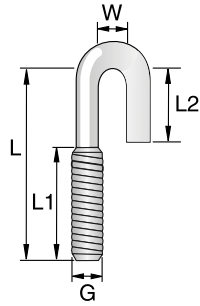


DIN 85A


Art.Nr.	G	L mm	KG /100	
85A5M6X8	M6	8	0.4	100
85A5M6X12	M6	12	0.6	100
85A5M6X16	M6	16	0.6	100
85A5M6X20	M6	20	0.6	100
85A5M6X25	M6	25	0.7	100
85A5M8X16	M8	16	1	100
85A5M8X20	M8	20	1.1	100

Bolts

Material : Steel 4.6
Finish : Electro zinc plated



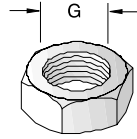
HB

Art.Nr.	G	L mm	L1 mm	L2 mm	W mm	KG /100	
HB8X75	M8	75	50	20	13	7.5	100
HB8X115	M8	115	70	20	13	5	100
HB10X150	M10	150	90	25	16	5	100
HB10X190	M10	190	130	25	16	5	100




Nuts DIN 934

Material : Steel 8 DIN-EN-ISO 4032
Finish : Electro zinc plated

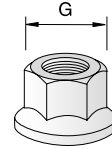


DIN 934


Art.Nr.	G	KG /100	
9345M6	M6	0.2	100
9345M8	M8	0.5	100
9345M10	M10	1.1	100
9345M12	M12	1.6	100
9345M16	M16	3.2	100
9345M20	M20	5.9	50
9345M22	M22	7.5	25
9345M24	M24	10	25
9345M27	M27	15	10

Nuts DIN 6923

Material : Steel DIN-EN-ISO 4032
Finish : Electro zinc plated

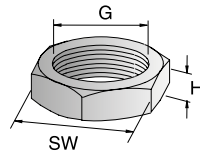
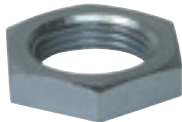


DIN 6923


Art.Nr.	G	KG /100	
69235M6	M6	0.3	100
69235M8	M8	0.8	100
69235M10	M10	1.6	100
69235M12	M12	2.3	100

Nuts

Material : Steel 4
Finish : Electro zinc plated

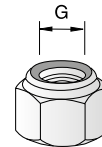


RG


Art.Nr.	G	H mm	SW	KG/M kg/m	
1442201	1/2"	8	32		50
1442801	3/4"	9	36		50
1443501	1"	10	46		50
SRM8SW13	M8		13		100
SRM10SW17	M10		17		100
SRM12SW19	M12		19		100
SRM16SW24	M16		24		100

Nuts DIN 985

Material : Steel >=5 DIN-EN-ISO 10511
Finish : Electro zinc plated



DIN 985


Art.Nr.	G	KG /100	
9855M4	M4	0.1	100
9855M6	M6	0.2	100
9855M8	M8	0.5	100
9855M10	M10	1.1	100
9855M12	M12	1.5	100
9855M16	M16	3.2	50

Nuts

Material : Steel 6
Finish : Electro zinc plated



CN


Art.Nr.	G	KG /100	
1621096	M8	1.1	100
1621196	M10	2	100

Nuts Whizlock

Material : Steel 8
Finish : Electro zinc plated



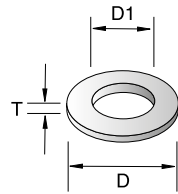
WHIZLOCK

Art.Nr.	G	KG /100	
WHIZNUT5M6	M6	0.3	100
WHIZNUT5M8	M8	0.8	100
WHZNUT5M10	M10	1.2	100
WHZNUT5M12	M12	1.9	100
WHZNUT5M16	M16	4.7	100
SRM8SW13	M8	13	100
SRM10SW17	M10	17	100
SRM12SW19	M12	19	100
SRM16SW24	M16	24	100




Washers DIN 125-1A

Material : Steel DIN-EN-ISO 7089
Finish : Electro zinc plated

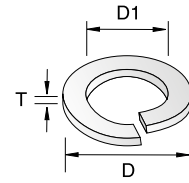


DIN 125-1A


Art.Nr.	D mm	D1 mm	T mm	KG /100	
1255M6	12.5	7	1.6	0.01	100
1255M8	17	9	2	0.2	100
1255M10	21	11	2.5	0.4	100
1255M12	24	13	3	0.6	100
1255M16	30	17	3	1.1	100

Washers DIN 127B

Material : Springsteel DIN 267-26
Finish : Electro zinc plated

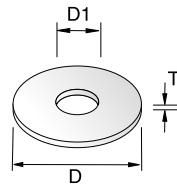


DIN 127B


Art.Nr.	D mm	D1 mm	T mm	KG /100	
1275M6	6.1	11.8	1.6	0.1	100
1275M8	8.1	14.8	2	0.2	100
1275M10	10.2	18.1	2.5	0.3	100
1275M12	12.2	21.1	3	0.4	100
1275M16	-	-	3	0.9	100

Washers DIN 9021

Material : Steel DIN-EN-ISO 7093
Finish : Electro zinc plated

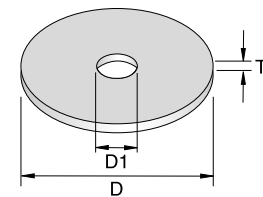
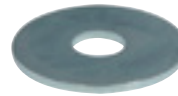


DIN 9021


Art.Nr.	D mm	D1 mm	T mm	KG /100	
90215M6	18	6.4	1.6	0.3	100
90215M8	24	8.4	2	0.6	100
90215M10	30	10.5	2.5	1.2	100
90215M12	37	13	3	2.2	100
90215M16	50	17	3	4.1	100

Washers U28 U40 + U20 35

Material : Steel
Finish : Electro zinc plated

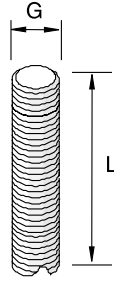


U28 U40 + U20 35


Art.Nr.	D mm	D1 mm	T mm	KG /100	
1620426	20	4.3	1.25	0.3	200
1620526	20	5.3	1.25	0.3	200
1620626	20	6.4	1.25	0.2	200
1620826	25	8.4	1.25	0.4	200
1620846	35	8.3	2	1.4	100
1621036	30	10.5	1.25	0.6	200
1621046	35	10.5	2	1.3	100
1621236	32	12.3	1.5	0.5	200
1621246	35	12.3	2	1.3	100
3910105	28	6.4	2	0.9	100
3910106	28	8.4	2	1	100
3910107	28	10.5	2	1	100
3910122	40	8.4	3	2.5	100
3910123	40	10.5	3	2.7	100
3910124	40	13	3	2.6	100
3910125	40	17	3	2.4	100

Threaded rod DIN 975

Material : Steel 4.6
Finish : Electro zinc plated

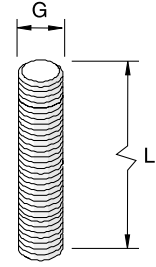


DIN 975

Art.Nr.	G	L mm	KG /100	
9755M6X1M	M6	1000	17	100
9755M6X2M	M6	2000	34	50
9755M6X3M	M6	3000	51	50
9755M8X1M	M8	1000	31.9	50
9755M8X2M	M8	2000	63.8	25
9755M8X3M	M8	3000	100	25
9755M10X1M	M10	1000	50	25
9755M10X2M	M10	2000	100	20
9755M10X3M	M10	3000	140	20
9755M12X1M	M12	1000	72.5	20
9755M12X2M	M12	2000	130	15
9755M12X3M	M12	3000	210	15
9755M16X1M	M16	1000	133	10
9755M16X2M	M16	2000	266	10
9755M24X1M	M24	1000	296	2
9755M24X3M	M24	3000	888	2*
9755M30X3M	M30	3000	1404	5

Threaded stud DIN 976

Material : Steel 4.6 (M8-M12) 8.8 (M16)
Finish : Electro zinc plated



DIN 976

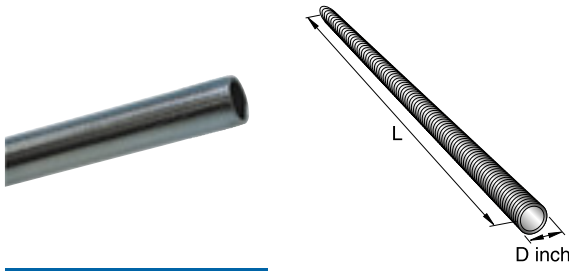
Art.Nr.	G	L mm	KG /100	
9765M8X30	M8	30	10	100
9765M8X40	M8	40	1.3	100
9765M8X50	M8	50	1.6	100
9765M8X60	M8	60	1.9	100
9765M8X70	M8	70	2.2	100
9765M8X80	M8	80	2.6	100
9765M8X90	M8	90	2.9	100
9765M8X100	M8	100	3.2	100
9765M8X150	M8	150	4.8	50
9765M8X200	M8	200	6.4	50
9765M10X30	M10	30	1.5	100
9765M10X40	M10	40	2	100
9765M10X60	M10	60	4.4	100
9765M10X70	M10	70	3.5	100
9765M10X80	M10	80	4	100
9765M10X90	M10	90	4.5	100
9765M10X100	M10	100	5	100
9765M10X150	M10	150	7.5	50
9765M10X200	M10	200	10	25
9765M12X20	M12	200	14.5	25
9765M12X40	M12	40	2.9	100
9765M12X60	M12	60	4.4	100
9765M12X80	M12	80	5.8	50
9765M12X100	M12	100	7.3	50
9765M12X150	M12	150	10.9	50
9765M16X30	M16	30	4	100
9765M16X40	M16	40	5.3	100
9765M16X60	M16	60	8	50
9765M16X80	M16	80	10.6	25
9765M16X100	M16	100	13.3	25
9765M16X150	M16	150	20	10
9765M16X200	M16	200	26.6	10

General Fixings




Threaded Tube

Material : Steel
Finish : Electro zinc plated




ROHR

Art.Nr.	D Inch	L mm	KG /100	
TUBE538	3/8	2000	138	10
TUBE534	3/4	2000	276	5
TUBE512	1/2	2000	176	10
TUBE51	1	2000	430	5

Threaded rod cutter

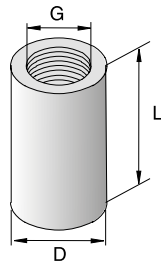


CUTTER


Art.Nr.	G	KG 1 pcs.	
AB0203	M8	4.0	1
ABE-M8	M8		
ABE-M10	M10		
RAB0203	M8	2.3	1

Rod connectors and reducers

Material : Steel
Finish : Electro zinc plated

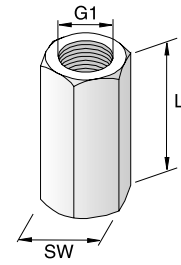


CR


Art.Nr.	D mm	G	L mm	KG /100	
1486256	10	M6	25	1.1	100
1488256	11	M8	25	1	100
1488406	11	M8	40	1.6	100
1481056	13	M10	25	1.3	100
1481046	13	M10	40	2	100
1481226	15	M12	25	1.6	100
1481246	15	M12	40	2.4	100
1481646	20	M16	40	6.2	100

Rod connectors and reducers

Material : Steel
Finish : Electro zinc plated



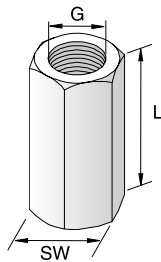
Coupler

Art.Nr.	G	G1	L mm	SW mm	KG /100	
SP3838	3/8"	3/8"	35	27	6	50
SP1212	1/2"	1/2"	35	19	6	50
SPM8M10	M8	M10	30	13	3	50
SPM10M12	M10	M12	30	17	4	50


General Fixings

Rod connectors and reducers

Material : Steel
Finish : Electro zinc plated

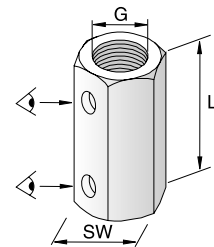


DIN 6334


Art.Nr.	G	L mm	SW mm	KG /100	
63345M6	M6	18	10	1	50
63345M8	M8	24	13	1.9	50
63345M10	M10	30	17	3.9	50
63345M12	M12	36	19	5.6	50
63345M16	M16	48	24	12.5	50
63344M6	M6	18	10	0.9	100
63344M8	M8	24	13	1.9	100
63344M10	M10	30	17	4.4	100
63344M12	M12	36	19	6.3	50
63344M16	M16	48	24	12.3	50

Rod connectors and reducers

Material : Steel
Finish : Electro zinc plated



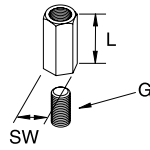
VISUAL

Art.Nr.	G	L mm	SW mm	KG /100	
TI63345M8	M8	30	13	2.2	50
TI63345M10	M10	30	17	4	50
TI63345M12	M12	30	17	3.3	50
TI63345M16	M16	40	22	7	50




Rod connectors and reducers

Material : Steel
Finish : Electro zinc plated

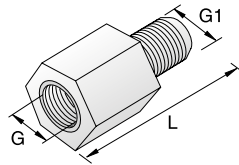


SOLID ADAPTER

Art.Nr.	G	G1	L mm	SW mm	KG /100	
SP12M10	M10	1/2"	39	24	9.9	50
SP12M12	M12	1/2"	42	24	10.8	50
SP12M16	M16	1/2"	51	24	14	50
SP34M12	M12	3/4"	47	30	18.1	50
SP1M12	M12	1	47	42	9.8	50
SP34M16	M16	3/4"	56	30	22	50
SP1M16	M16	1	55	42	12.3	50

Rod connectors and reducers

Material : Steel
Finish : Electro zinc plated

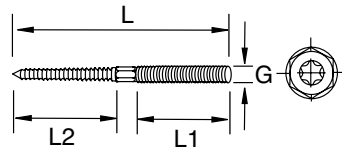


ADAPTER


Art.Nr.	G	G1	L mm	SW mm	KG /100	
310810	M8	M10	21	13	1.1	100
310812	M8	M12	23	13	1.8	100
311008	M10	M8	23	13	1.3	100
311012	M10	M12	23	13	1.6	100
311016	M10	M16	32	19	5.4	50
311208	M12	M8	23	17	2.2	100
311210	M12	M10	25	17	2.4	100
311216	M12	M16	32	19	2.4	50
311610	M16	M10	32	24	6.6	50
311612	M16	M12	32	24	6.8	50
1482210	1/2"	M10	30	24	4.8	50
1482212	1/2"	M12	30	24	4.6	50
1482216	1/2"	M16	35	30	9.7	25

Wood fixings

Material : Steel
Finish : Electro zinc plated



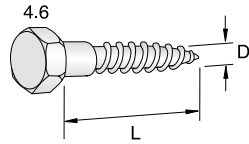
WT-MT

Art.Nr.	G	L mm	L1 mm	L2 mm	SW mm	KG /100	
1440656	M6	50	25	23	-	0.8	100
1440686	M6	80	35	40	-	1.3	100
1440856	M8	50	12	37	torx 25	1.1	100
1440880	M8	60	20	35	torx 25	1.9	100
1440860	M8	80	30	40	torx 25	1.4	100
1440896	M8	90	40	45	torx 25	2.3	100
1440810	M8	100	42	47	torx 25	2.5	100
1440816	M8	120	50	45	torx 25	3	100
1440836	M8	150	50	50	torx 25	3.9	100
1441060	M10	60	20	35	torx 25	2.2	100
1441080	M10	80	30	40	torx 25	3	100
1441012	M10	120	50	55	torx 25	5.1	50
1441016	M10	100	40	45	torx 25	3.8	50
1441026	M10	140	50	60	torx 25	5.7	50
1441036	M10	180	40	55	torx 25	7.6	50
1441210	M12	100	25	57	torx 30	5.4	50
1441212	M12	120	40	57	torx 30	6.8	50




Wood fixings

Material : Steel
Finish : Electro zinc plated

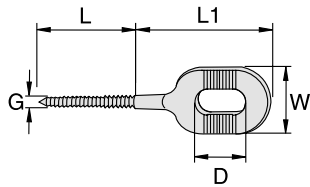



DIN 571

Art.Nr.	D mm	L mm	KG /100	
57156X50	6	50		100
57156X60	6	60		100
57156X70	6	70		100
57158X80	6	80		100
57158X40	8	40	1.6	100
57158X50	8	50	1.8	100
57158X60	8	60	2.1	100
57158X70	8	70		100
57158X80	8	80	2.7	100
57158X100	8	100		100
57158X120	8	120		100
571510X40	10	40		100
571510X50	10	50		100
571510X60	10	60	3.7	100
571510X70	10	70		100
571510X80	10	80	4.5	100
571510X100	10	100	5.4	100
571510X120	10	120	6.2	50
571510X140	10	140	7.1	50
571510X160	10	160		50
571512X50	12	50		100

Eye screws

Material : Steel
Finish : Electro zinc plated

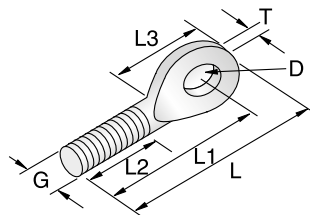


WT-OE							
Art.Nr.	D mm	G	L mm	L1 mm	W mm	KG /100	
1486504	6.5x15	h6	32	53	22	2.2	100
1488304		h7	32				100

Eye screws

Material : Steel
Finish : Electro zinc plated

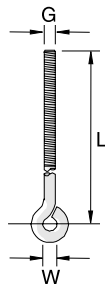
General Fixings




MT-RE									
Art.Nr.	D mm	G	L mm	L1 mm	L2 mm	T mm	L3 mm	KG /100	
MTREM8	8.5	M8	45	34	20	3.3	21	1.6	100

Eye screws

Material : Steel
Finish : Electro zinc plated

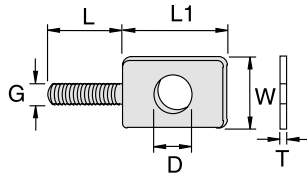


EYB					
Art.Nr.	G	L mm	W mm	KG /100	
EYB10	M10	150	12	10	100
EYB12	M12	150	14	15.5	100
EYB16	M16	150	16	38.8	100
EYB20	M20	150	22	64.5	100
EYB24	M24	150	28	96	100




Eye screws

Material : Steel
Finish : Electro zinc plated

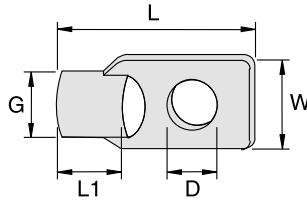


MF


Art.Nr.	D mm	G	L mm	L1 mm	W mm	T mm	KG /100	
1488205	10.5	M8	20	33	24	4.5	3	50
1488405	10.5	M8	40	33	24	4.5	3.7	50
1481205	12.5	M10	20	30	26	5	3.3	50
1481405	12.5	M10	40	30	26	5	4.3	50

Eye screws

Material : Steel
Finish : Electro zinc plated



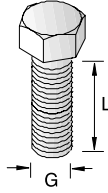
FF

Art.Nr.	D mm	G	L mm	L1 mm	W mm	KG /100	
1480085	8	M8	46	21	19	1.7	100
1480105	10	M10	52	25	22	2.6	100
1480125	12.5	M12	65	32	25	5.4	100

Bolts DIN 933 hot dip galvanised

Material : Steel 8.8 DIN-EN-ISO 4017

Finish : Hot dip galvanised



DIN 933-HDG

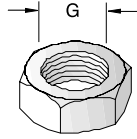
Art.Nr.	G	L mm	KG /100	
93336X12	M6	12	0.4	100
93336X16	M6	16	0.5	100
93336X20	M6	20	0.6	100
93336X25	M6	25	0.7	100
93336X30	M6	30	0.8	100
93336X35	M6	35	0.8	100
93336X40	M6	40	0.9	100
93338X20	M8	20	1.2	100
93338X25	M8	25	1.4	100
93338X35	M8	35	1.7	100
93338X40	M8	40	1.9	100
93338X45	M8	45	2	100
93338X50	M8	50	2.2	100
93338X60	M8	60	2.4	100
933310X20	M10	20	2.3	100
933310X25	M10	25	2.6	100
933310X30	M10	30	2.8	100
933310X40	M10	40	3.1	100
933310X50	M10	50	3.6	100
933310X60	M10	60	4.1	100
933310X80	M10	80	5.2	100
933310X100	M10	100	6.1	100
933312X22	M12	22	3.4	100
933312X25	M12	25	3.7	100
933312X30	M12	30	4	100
933312X40	M12	40	4.7	100
933312X50	M12	50	5.5	100
933312X60	M12	60	6.2	100
933312X80	M12	80	7.4	50
933312X100	M12	100	8.8	50
933316X25	M16	25	7	50
933316X30	M16	30	7.7	50
933316X40	M16	40	9	50
933316X50	M16	50	10.3	50
933316X60	M16	60	11.7	50
933316X100	M16	100	17	25
933320X80	M20	80	24	25
933320X80	M20	24	25	37




Nuts DIN 934 hot dip galvanised

Material : Steel 8 DIN-EN-ISO 4032

Finish : Hot dip galvanised

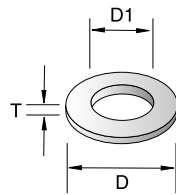


DIN 934-HDG

Art.Nr.	G	KG /100	
9343M6	M6	0.2	100
9343M8	M8	0.5	100
9343M10	M10	1.1	100
9343M12	M12	1.6	100
9343M16	M16	3	100

Washers DIN 125-1A hot dip galvanised

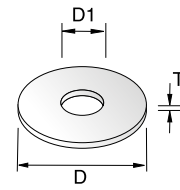
Material : Steel DIN-EN-ISO 7089
Finish : Hot dip galvanised

**DIN 125-1A-HDG**

Art.Nr.	D mm	D1 mm	T mm	KG /100	
1253M6	12.5	7	1.6	0.1	100
1253M8	17	9	2	0.2	100
1253M10	21	11	2.5	0.4	100
1253M12	24	13	3	0.6	100
1253M16	30	17	3	1.1	100

Washers DIN 9021 hot dip galvanised

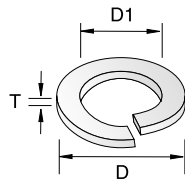
Material : Steel DIN-EN-ISO 7093
Finish : Hot dip galvanised

**DIN 9021-HDG**

Art.Nr.	D mm	D1 mm	T mm	KG /100	
90213M6	18	6.4	2	0.2	100
90213M8	24	8.4	2.5	0.7	100
90213M10	30	10.5	3	1.2	100
90213M12	37	13	3	2.2	100
90213M16	50	17	3	4.9	100

Washers DIN 127B hot dip galvanised

Material : Springsteel DIN 267-26
Finish : Hot dip galvanised

**DIN 127B-HDG**

Art.Nr.	D mm	D1 mm	T mm	KG /100	
1273M6	6.1	11.8	1.6	0.1	100
1273M8	8.1	14.8	2.0	0.2	100
1273M10	10.2	18.1	2.5	0.3	100
1273M12	12.2	21.1	3.0	0.4	100
1273M16	16.2	27.4	3.0	0.9	100




Threaded Rod DIN 975 hot dip galvanised

Material : Steel 4.6

Finish : Hot dip galvanised



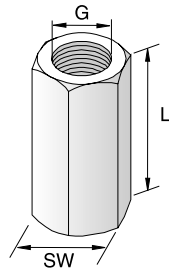
DIN 975-HDG

Art.Nr.	G	L mm	KG /100	
9753M10X1M	M10	1000	50	25
9753M12X1M	M12	1000	72.5	20
9753M16X1M	M16	1000	133	10


Rod connectors and reducers

Material : Steel

Finish : Hot dip galvanised



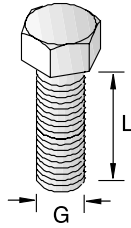
DIN 6334-HDG

Art.Nr.	G	L mm	SW mm	KG /100	
63343M6	M6	18	10	0.8	50
63343M8	M8	24	13	2	50
63343M10	M10	30	17	4.2	100
63343M12	M12	36	19	6	50
63343M16	M16	48	24	11	50



Bolts DIN 933 stainless steel

Material : Stainless Steel A4-70

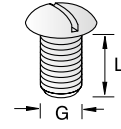


DIN 933-SS

Art.Nr.	G	L mm	KG /100	
93346X12	M6	12	0.4	100
93346X16	M6	16	0.6	100
93346X20	M6	20	0.6	100
93346X25	M6	25	0.7	100
93346X30	M6	30	0.8	100
93346X35	M6	35	0.8	100
93346X40	M6	40	0.9	100
93346X60	M6	60	1.3	100
93348X20	M8	20	1.2	100
93348X25	M8	25	1.4	100
93348X30	M8	30	1.6	100
93348X35	M8	35	1.7	100
93348X40	M8	40	1.9	100
93348X45	M8	45	2	100
93348X50	M8	50	2.2	100
93348X60	M8	60	2.5	100
933410X20	M10	20	2.3	100
933410X25	M10	25	2.6	100
933410X30	M10	30	2.8	100
933410X40	M10	40	3.3	100
933410X50	M10	50	3.8	100
933410X60	M10	60	4.3	50
933410X80	M10	80	5.3	50
933410X100	M10	100	6.3	25
933412X22	M12	22	3.4	50
933412X25	M12	25	3.7	50
933412X30	M12	30	4	50
933412X40	M12	40	4.7	50
933412X50	M12	50	5.5	50
933412X60	M12	60	6.2	50
933412X80	M12	80	7.6	25
933412X100	M12	100	9.1	25
933416X25	M16	25	7	25
933416X30	M16	30	7.7	25
933416X40	M16	40	9	25
933416X50	M16	50	10.3	25
933416X60	M16	60	11.7	25
933416X80	M16	80	14.4	10
933416X100	M16	100	17	10

Bolts DIN 85A stainless steel

Material : Stainless Steel A4-70

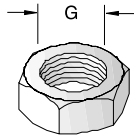


DIN 85A-SS


Art.Nr.	G	L mm	KG /100	
85A4M6X16	M6	16	0.6	100
85A4M6X20	M6	20	0.6	100
85A4M6X25	M6	25	0.7	100
85A4M8X16	M8	16	1	100
85A4M8X20	M8	20	1.1	100
85A4M8X25	M8	25	1.3	100

Nuts DIN 934 stainless steel

Material : Stainless Steel A4-70

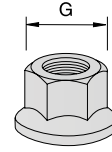


DIN 934-SS


Art.Nr.	G	KG /100	
9344M6	M6	0.2	100
9344M8	M8	0.5	100
9344M10	M10	1.1	100
9344M12	M12	1.6	100
9344M16	M16	3	50

Nuts DIN 6923 stainless steel

Material : Stainless Steel A2-70

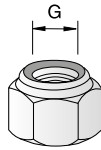


DIN 6923-SS


Art.Nr.	G	KG /100	
69234M6	M6	0.3	100
69234M8	M8	0.7	100
69234M10	M10	1.2	100
69234M12	M12	1.7	100
69235M16	M16		50

Nuts DIN 985 stainless steel

Material : Stainless Steel A4



DIN 985-SS

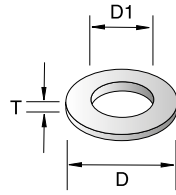
Art.Nr.	G	KG /100	
9854M6	M6	0.2	100
9854M8	M8	0.5	50
9854M10	M10	1.1	50
9854M12	M12	1.7	25
9854M16	M16	3.2	10

General Fixings



Washers DIN 125-1A stainless steel

Material : Stainless Steel A4

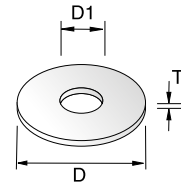


DIN 125-1A-SS

Art.Nr.	D mm	D1 mm	T mm	KG /100	
1254M6	12.5	7	1.6	0.1	100
1254M8	17	9	2.0	0.2	100
1254M10	21	11	2.5	0.4	100
1254M12	24	13	3.0	0.6	100
1254M16	30	17	3.0	1.1	100

Washers DIN 9021 stainless steel

Material : Stainless Steel 316 (1.4401)

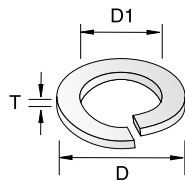


DIN 9021-SS

Art.Nr.	D mm	D1 mm	T mm	KG /100	
90214M6	18	6.4	1.6	0.3	100
90214M8	24	8.4	2.0	0.7	100
90214M10	30	10.5	2.5	1.2	100
90214M12	37	13	3.0	2.7	100
90214M16	50	17	3.0	4.1	-

Washers DIN 127B stainless steel

Material : Stainless Steel A4

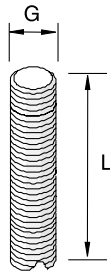



DIN 127B-SS

Art.Nr.	D mm	D1 mm	T mm	KG /100	
1274M6	11.8	6.1	1.6	0.1	100
1274M8	14.8	8.1	2.0	0.2	100
1274M10	18.1	10.2	2.5	0.2	100
1274M12	21.1	12.2	3.0	0.4	100
1274M16	27.4	16.2	3.0	0.9	100

Threaded rod DIN 975 stainless steel

Material : Stainless Steel A4

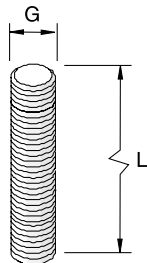
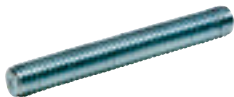
**DIN 975-SS**


Art.Nr.	G	L mm	KG /100	
9754M6X1M	M6	1000	17	100
9754M8X1M	M8	1000	31	50
9754M8X2M	M8	2000	62	25
9754M8X3M	M8	3000	93	25
9754M10X1M	M10	1000	49	25
9754M10X2M	M10	2000	98	20
9754M10X3M	M10	3000	147	20
9754M12X1M	M12	1000	71	20
9754M12X2M	M12	2000	142	15
9754M12X3M	M12	3000	213	15
9754M16X1M	M16	1000	131	10
9754M16X2M	M16	2000	262	10
9754M16X3M	M16	3000	393	10

General Fixings

Threaded stud DIN 976 stainless steel

Material : Stainless Steel A4

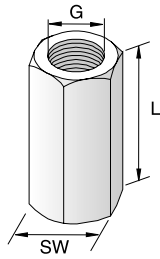
**DIN 976-SS**

Art.Nr.	G	L mm	KG /100	
9764M8X60	M8	60	1.9	100
9764M8X70	M8	70	2.2	100
9764M10X60	M10	60	2.9	100
9764M12X11	M12	110	7.8	50



Rod connectors and reducers

Material : Stainless Steel A4

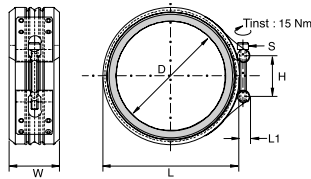


DIN 6334-SS

Art.Nr.	G	L mm	SW mm	KG /100	
63344M6	M6	18	10	0.9	100
63344M8	M8	24	13	1.9	100
63344M10	M10	30	17	4.4	100
63344M12	M12	36	19	6.3	50
63344M16	M16	48	24	12.3	50

Coupler for ductile iron type FAVORIT

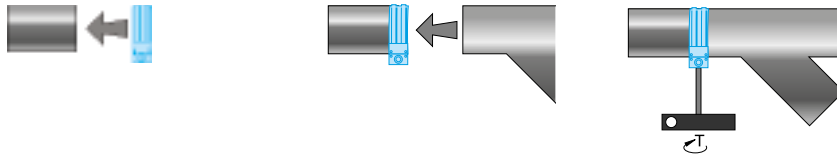
Material : Stainless Steel - 1.4520
EPDM - Shore = 55°± 5°



FAVORIT

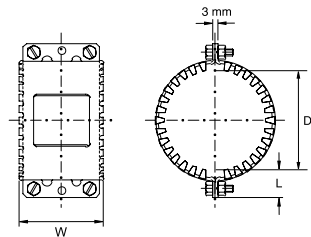
Art.Nr.	DN	D mm	L mm	L1 mm	W mm	H mm	Max Wk Pressure Bar	KG /100	
2190509	50	58	72	11	44	35	0.5	13.0	100
2190709	70	78	89	11	44	35	0.5	15.7	100
2190759	75S	75	89	11	44	35	0.5	15.7	100
2190839	80	83	97	11	44	35	0.5	16.1	100
2191009	100	110	124	11	44	35	0.5	19.3	50
2191259	125	135	149	11	49	35	0.5	29.2	25
2191509	150	160	175	11	49	35	0.5	32.4	25

Couplings & accessories



Coupler for ductile iron type FAVORIT

Material : Steel DD11 - EN 10111
Finish : Electro zinc plated - DIN EN 12329



FAVORIT CLAMP

Art.Nr.	DN	D mm	L mm	W mm	Max Wk Pressure Bar	KG /100	
2180500	50	58	20	77	10	45.5	25
2180750	70-80	75 & 78 & 83	20	77	10	55.8	25
2181000	110	110	20	96	7	91.0	25
2181250	125	135	20	96	6	109.3	10
2181500	150	160	20	96	4	126.5	10



Index

Symbols

1 Screw pipe clip with sound insulation	141
2 Screw pipe clip	145
2 Screw pipe clip stainless steel	176, 177, 178
2 Screw pipe clip without sound insulation	142
2 Screw pipe clip with sound insulation	143, 146
2 Screw pipe clip with sound insulation for plastic pipes	144
2-Way slide guide type quadro	188
#14	214
170C	171

A

Accessories	200
ADAPTER	245
Adhesive paste for PU inserts	158
Adjustable angle fittings slide guides	182
Adjustable angle fittings with sound insulation	183
AIR-N	197
AIR-R	198
AIR-R-SS	199
Anchor for light concrete	216, 217
Anchor for light concrete and hollow brickwalls	216
Articulated beam clamp	209

B

Baseplates with thread connector	167, 168
Beam clamp	208
Beam clamp for 41mm width channel	210
Beamclamp for UNI0 channel	131
Beamclamp for UNI1,2&3 channel	132
Beamclamp for Unistrut channel P1386-S1	59
Beamclamp for Unistrut channel P2785-88	59
Fixings onto steel roofs & purlins	211
Bolts	238
Bolts DIN 84	237
Bolts DIN 85A	237
Bolts DIN 85A stainless steel	255
Bolts DIN 931	236
Bolts DIN 933	236
Bolts DIN 933 hot dip galvanised	250
Bolts DIN 933 stainless steel	255
Bolts DIN 964	236
Bolts galvanised	236
Bolts hot dip galvanised	250
Bolts stainless steel	255
BP-PLASTIC	204
Brace for brackets type KON300/200 & KON 550/350 - KON BM	124
Brace for brackets type KON700/400 & KON 850/550 - KON BH	124
Brass anchor	218
Breeze concrete dowel	216

C

C711-HDG	90
C711-SS	108
Cantilever arm 41x21x2.0mm T2774T	113
Cantilever arm 41x21x2.0mm T2774T10-HDG	115
Cantilever arm 41x41x2.0mm T2773T	113
Cantilever arm 41x41x2.0mm T2773T-HDG	115
Cantilever arm 41x41x2.5mm P2663T-HDG	116
Cantilever arm with bracing	114
Cavity fixing	230, 231
Cavity fixing tool	231
Channel accessories	41
Channel nut for UNI channels	130
Channel socket	42
CN	240
CNH	131
CNM	130
Cold shrink tape	201
Concrete screws	232, 233

Cool pipe clip with PU 250 kg/m ³	159
Cool pipe clip with PU and synthetic rubber ends	156, 157
Coupler	244
Coupler for ductile iron type FAVORIT	260
Couplers for ductile iron pipe	260
Cover for Unistrut channel	42
Cover P1184	42
CR	244
CST20	233
CUTTER	243

D

DC	139
DCWT	140
DH	167
DHV	167, 211, 212
DIAGONAL SHORE	191
DIN 84	237
DIN 85A	237
DIN 85A-SS	255
DIN 125-1A	241
DIN 125-1A-HDG	252
DIN 125-1A-SS	257
DIN 127B	241
DIN 127B-HDG	252
DIN 127B-SS	257
DIN 571	246, 247
DIN 931	236
DIN 933	236
DIN 933-HDG	250
DIN 933-SS	255
DIN 934	239
DIN 934-HDG	251
DIN 934-SS	256
DIN 964	236
DIN 975	242
DIN 975-HDG	253
DIN 975-SS	258
DIN 976	242
DIN 976-SS	258
DIN 985	239
DIN 985-SS	256
DIN 3567A	151
DIN 6334	244
DIN 6334-HDG	254
DIN 6334-SS	259
DIN 6923	239
DIN 6923-SS	256
DIN7504K	200
DIN 9021	241
DIN 9021-HDG	252
DIN 9021-SS	257
Distance washer for KON brackets HBKON	124
Double adjustable pipe clip with insulation	139
Double Channel - Galvanised	39
Double Channel - Hot Dip Galvanised	66
Double Channel - Stainless Steel	96
Drill for steel anchors type Zykon	222
Drill for stone & concrete	229
Drills & Holesaw	228
DSTR-1	213
Duct Bracket	195
Duct Clamp	197
Duct Clamps	197
Duct Clamp with sound insulation	198, 199
Duct sealing tape	201

E

EA	219, 220
EA-SS	219
EAW	220
Einschlaganker EA II	220
Endcap	42
End cap for UNI channel	128



Endcaps for Unistrut Channel	42	Heavy duty angle brackets KON850-550	123
EPDM	202	Heavy duty Duct Bracket	196
EPDM insulation for M11 and SS2 series clamps	175	Heavy Duty Pipe Clip	147, 150
ES-1H	187	HERKULES H	190, 191
ES-1HV	187	HM	230, 231
ES-1M	186	HM TOOL	231
ES-1MQ	186	Holedrill	228
ES-1M-SS	189	HOLEDRILL	228
ES-1MV	186	Holesaw	228
ES-1MV-SS	189	Hot Dip Galvanised	115
ES-1S	184, 185		
ES-2H	187	I	
ES-2HV	187	INSERT	204
ES-2M	186	Insulated Pipeclips	154, 155
ES-2MQ	186		
ES-2M-SS	189	J	
ES-2MV	186	Jack Nut	230
ES-2MV-SS	189	Jack nut cavity fixing	230
Expansion anchor with bolt and washer	227	Jack nut cavity fixing tool	230
EYB	248	JN TOOL	230
Eye Screws	248, 249		
Eye Screws Galvanised	248		
		K	
F		KH	119
Fast fix anchors FNA II	223	KL	118
Fast fix anchors FNA II-UNI	223	KLD	118
FAVORIT	260	KM	119
FAVORIT CLAMP	260	KON100	120
FAZ	225, 226	KON150	120
FF	249	KON200	121
FILBOW	166	KON200SS	125
Fixings for pipe clips	167	KON300-200	121
Fixings for two pipe clips	167, 168	KON550-350	122
Fixings onto steel beams	208	KON700-400	122
Fix Point for cooling pipes	194	KON850-550	123
Fix Point For cooling pipes	193	KON BH	124
Fix Point for Cooling pipes Fix Points	193	KON BM	124
Fix Point Herkules	190, 191	KP-UNI0	131
Fix Point Herkules Fix Points	190	KP-UNI1&2	132
FLS	209	KS	156, 157
FNA-M8	223	Kwik-Fix Angle Fittings	129
FNA-UNI	223	Kwik-Fix Channelnuts	129
FP RD 40-160	163	Kwikstrut 3 way cross fitting - QFCL-QFCR-HDG	74
FP RD 200-315	163	Kwikstrut 3 way cross fitting - QFCL-QFCRQFCL-QFCR	49
FZEA II	221	Kwikstrut 3 way cross fitting - QFCL-QFCR-SS	101
FZEA II SS	221	Kwikstrut 4 way cross fitting - QFCD-SS	102
		Kwikstrut 4 way cross fitting - QFCL-QFCR	74
G		Kwikstrut adapter washer - QCA	53
G4530-G6040	169, 170	Kwikstrut adapter washer - QCA-HDG	78
G9060	170	Kwikstrut adjustable angle fitting - QFFS-HDG	75
Galvanised	113	Kwikstrut adjustable angle fitting - QFFSQFFS	49
GB	216	Kwikstrut adjustable angle - T fitting - QFFSS-HDG	75
GHML	182, 183	Kwikstrut adjustable angle - T fitting - QFFSSQFFSS	49
GHMR	183	Kwikstrut adjustable rod connection fitting - QFFC	49
GIRDER	169	Kwikstrut angle bracket - QKON	54
GKS	158, 159	Kwikstrut angle bracket - QKON-HDG	78
GKSDUK	194	Kwikstrut angle fitting 45° - QFFA45	48
GKSFP	193	Kwikstrut angle fitting 45° - QFFA45-HDG	73
GLP	203	Kwikstrut angle fitting 90° - QFAZ	48
GMS	227	Kwikstrut angle fitting 90° - QFAZ-HDG	72
GR60050	203	Kwikstrut angle fitting 90° - QFAZ-SS	101
GRKD5017	203	Kwikstrut angle fitting 135° - QFA 135	48
		Kwikstrut angle fitting 135° - QFA 135-HDG	72
H		Kwikstrut angle fitting 135° - QFA 135-SS	101
H30	130	Kwikstrut Angle Fittings - Deltatone	69
H41	58	Kwikstrut Angle Fittings - Galvanised	46
HB	238	Kwikstrut Angle Fittings - Stainless Steel	99
HBKON	124	Kwikstrut angle - T fitting - QFFT	48
Heavy Duty 2 screw Pipe Clip	147, 148, 149, 152, 153, 162	Kwikstrut angle - T fitting - QFFT-HDG	72
Heavy duty Angle Brackets Hot Dip Galvanised	121	Kwikstrut angle - T fitting - QFFT-SS	101
Heavy duty angle brackets KON300-200	121	Kwikstrut brace fitting - QBF	54
Heavy duty angle brackets KON550-350	122	Kwikstrut brace fitting - QBF-HDG	79
Heavy duty angle brackets KON700-400	122	Kwikstrut cantilever arm - QLCA	54
		Kwikstrut cantilever arm - QLCA-HDG	78

Kwikstrut Cantilever Arms & Angle Brackets - Deltatone	77		
Kwikstrut Cantilever Arms & Angle Brackets - Galvanised	52		
Kwikstrut channel base fitting QB41	51		
Kwikstrut channel base fitting QB41-HDG	76		
Kwikstrut channel base fitting QB41-SS	103		
Kwikstrut channel base fitting QB82	51		
Kwikstrut channel base fitting QB82-HDG	76		
Kwikstrut channel base fitting QB124-HDG	77		
Kwikstrut channel base fitting QBS	51		
Kwikstrut channel base fitting QBS-HDG	76		
Kwikstrut channel base fitting QBS-SS	103		
Kwikstrut channel base fittings QB124	52		
Kwikstrut Channel Base Fittings - Stainless Steel	102		
Kwikstrut channel coupler assembly - QFDD	50		
Kwikstrut channel coupler - QFDC	50		
Kwikstrut channel coupler - QFDC-HDG	74		
Kwikstrut channel coupler - QFDC-SS	102		
Kwikstrut channel nut M16 or 1/2" - QEN	45		
Kwikstrut channel nut M16 or 1/2" - QEN-HDG	69		
Kwikstrut channel nuts - Deltatone	68		
Kwikstrut channel nuts - Galvanised	44		
Kwikstrut channel nuts - Stainless Steel	98		
Kwikstrut channel nut with plastic locater - QCN	45		
Kwikstrut channel nut with plastic washer - QCN-HDG	69		
Kwikstrut channel nut with plastic washer - QCN-SS	99		
Kwikstrut channel nut with square washer - QRN	44		
Kwikstrut channel nut with square washer - QRN-HDG	68		
Kwikstrut channel nut with square washer - QRN-SS	98		
Kwikstrut cross fitting - QFTT	48		
Kwikstrut cross fitting - QFTT-HDG	73		
Kwikstrut cross fitting - QFTT-SS	101		
Kwikstrut cross fitting - QFX	47		
Kwikstrut cross fitting - QFX-HDG	70		
Kwikstrut cross fitting - QFX-SS	100		
Kwikstrut Fittings 41mm Galvanised	44		
Kwikstrut Fittings 41mm Hot Dip Galvanised	68		
Kwikstrut Fittings 41mm Stainless Steel	98		
Kwikstrut flat angle fitting 90° - QFA	47		
Kwikstrut flat angle fitting 90° - QFA-HDG	70		
Kwikstrut flat angle fitting 90° - QFA-SS	100		
Kwikstrut flat angle fitting 90° - QFFA	47		
Kwikstrut flat angle fitting 90° - QFFA-HDG	71		
Kwikstrut flat angle fitting 90° - QFFA-SS	100		
Kwikstrut flat angle fitting 135° - QFFA 135	47		
Kwikstrut flat angle fitting 135° - QFFA 135-HDG	71		
Kwikstrut flat angle fitting 135° - QFFA 135-SS	100		
Kwikstrut hinged foot - QBFS	49		
Kwikstrut I-fitting - QFI	47		
Kwikstrut I-fitting - QFI-HDG	70		
Kwikstrut I-fitting - QFI-SS	100		
Kwikstrut L channel nut for UNI channel	129		
Kwikstrut L channel nut with square washer for UNI channels	129		
Kwikstrut L flat angle fitting 90°	130		
Kwikstrut rod connection fitting - QFMP-SS	102		
Kwikstrut Solar angle fitting 60° - QFFA60	80		
Kwikstrut Solar end fitting - QCSE	80		
Kwikstrut Solar middle fitting - QCSM	80		
Kwikstrut Solar positioning fitting - QCPS	81		
Kwikstrut Special Fittings - Deltatone	73		
Kwikstrut Special Fittings - Galvanised	48		
Kwikstrut Special Fittings - Stainless Steel	101		
Kwikstrut stud nuts - QTB	46		
Kwikstrut T-fitting - QFT	47		
Kwikstrut T-fitting - QFT-HDG	71		
Kwikstrut T fitting - QFT-SS	100		
Kwikstrut Uni lock channel nut - QFNH	44		
Kwikstrut Uni lock channel nut - QFNH-HDG	68		
Kwikstrut Uni lock channel nut - QFNH-SS	98		
Kwikstrut U shaped fitting - QFU	48		
Kwikstrut U shaped fitting - QFU-HDG	73		
Kwikstrut U shaped fitting - QFU-SS	101		
L			
LBD		216	
LC		209, 210	
Light 1 screw pipe clip with sound insulation		141	
Light double pipe clip with insulation		140	
Light Duty Anchors		216	
Light Duty Angle Brackets Hot Dip Galvanised		120	
Light duty beamclamp		210	
Light Duty Pipe Clip		138	
Light Duty UNI Channels Galvanised		126	
Light Duty UNI Fittings Galvanised		129	
Lochzange		212	
M			
M1108-M1155		173, 174	
M1108-M1155-SS		178, 179	
Massiv-N-SS		178	
Massiv-R-SS		177	
MD		217, 218	
Mechanical Heavy Duty Drop in Anchors		219	
Mechanical Heavy Duty Wedge Anchor		223	
Medium Duty Pipe Clip		142	
MF		248, 249	
Mini		141	
MMS-LBD		233	
MMS-P		233	
MMS-ST		232	
MMS-SW		232	
MMS-T		232	
MODEL 325		169	
MT-RE		248	
N			
Nameplate System		204	
Nameplate with cover & fixing strap		204	
Nameplate with cover for bolt fixing		204	
Nameplate with cover for welding		204	
Non drill anchor		219	
Non drill anchor stainless steel		219	
NP-BOLT		204	
NPI QBFS		49	
NP-STRAP		204	
NP-WELD		204	
Nuts		239, 240	
Nuts DIN 934		239	
Nuts DIN 934 Hot Dip Galvanised		251	
Nuts DIN 934 Stainless Steel		256	
Nuts DIN 985		239	
Nuts DIN 985 Stainless Steel		256	
Nuts DIN 6923		239	
Nuts DIN 6923 Stainless Steel		256	
Nuts Galvanised		239	
Nuts Hot Dip Galvanised		251	
Nuts Stainless Steel		256	
Nuts Whizlock		240	
Nylon anchor		216	
P			
P		210	
P170		172	
P171		173	
P1000		36	
P1000-HDG		63	
P1000-SS		95	
P1000T		36	
P1000T-HDG		64	
P1000T-SS		96	
P1001-SS		97	
P1001T		39	
P1001T-HDG		66	
P1001T-SS		97	



P1019&20-HDG	82	P2072A-SS	110
P1026-HDG	86	P2072-S1-HDG	92
P1026S1	57	P2072-S1-SS	110
P1026-SS	106	P2072-S2-HDG	91
P1031-HDG	85	P2072-S2-SS	110
P1031-SS	105	P2072-S3-HDG	91
P1036-HDG	85	P2073A-HDG	92
P1036-SS	105	P2073A-SS	111
P1037-HDG	87	P2073-HDG	92
P1038-HDG	88	P2073-SS	111
P1043-HDG	89	P2097-HDG	88
P1043-SS	109	P2101-HDG	88
P1044-HDG	89	P2223-HDG	93
P1045-HDG	90	P2322-HDG	84
P1045-SS	110	P2341L-HDG	93
P1047-HDG	89	P2341L-SS	112
P1047-SS	109	P2341R-HDG	93
P1062-SS	104	P2341R-SS	111
P1063	57	P2346-HDG	93
P1063-SS	104	P2346-SS	111
P1065-HDG	83	P2348-S1-HDG	92
P1065-SS	105	P2348-S1-SS	111
P1066-HDG	83	P2348-S2-HDG	92
P1066-SS	105	P2348-S2-SS	111
P1067-HDG	84	P2484-HDG	87
P1067-SS	105	P2484-SS	107
P1068-HDG	86	P2489-HDG	90
P1068-SS	106	P2600 UNI-CUSHION	175
P1074-HDG	88	P2663T	114
P1074-SS	107	P2663T-HDG	116
P1075-8	117	P2663T-SS	125
P1100T-HDG	63	P2665-HDG	117
P1186-HDG	88	P2668-HDG	116
P1186-SS	108	P2700T	114
P1218	60	P2749	61
P1219	60	P2750/1	61
P1271-HDG	91	P2785-86-SS	108
P1271-SS	108	P2785-88	59
P1272-HDG	91	P2815S	58
P1272-SS	108	P2949	61
P1278-HDG	86	P2950	61
P1278-SS	106	P3087-HDG	91
P1300T	37	P3087-SS	109
P1325-HDG	86	P3300	35
P1325-SS	106	P3300-HDG	62
P1326-HDG	86	P3300-SS	94
P1326-SS	106	P3300T10	35
P1346-HDG	87	P3300T10-HDG	62
P1346-SS	106	P3300T10-SS	94
P1347-HDG	90	P3301T10	39
P1347-SS	110	P3301T10-HDG	66
P1354	58	P3301T10-SS	96
P1358-HDG	85	P4045-HDG	89
P1359-HDG	87	P4045-SS	110
P1359-SS	107	P4047-HDG	89
P1377-HDG	93	P4047-SS	109
P1377-SS	112	P5000T	38
P1386-HDG	90	P5000T-HDG	65
P1386-S1	59	P5001T	40
P1386-SS	108	P5001T-HDG	67
P1453-HDG	90	P5500T	37
P1453-SS	109	P5500T-HDG	64
P1458-HDG	87	P5501T	40
P1458-SS	107	P5501T-HDG	67
P1546-HDG	88	P8000T	38
P1546-SS	107	P8001T	41
P1580-HDG	86	PASTE	157, 158
P1727-HDG	87	PD	216, 217
P1727-SS	107	Perfect-1S	141
P1737-HDG	89	Perfect N	145
P1737-SS	109	Perfect R	146
P1941-HDG	84	PERFO	212
P1941-SS	105	Perforated steel band	235
P1964	57	Perforated steelband	235
P1983-HDG	91	Perforated steel band, plastic coated	235
P2072A-HDG	92	Pipe Clamp DIN3567A	151

Pipe Clamp for Unistrut Channel	174, 175	QFFA-HDG	71
Pipe Clamp for Unistrut Channel Stainless Steel	179, 181	QFFA-SS	100
Pipe clip with polyurethane insert	154, 155	QFFC	49
Pipe saddle	180	QFFS	49
Plastic back plate	204	QFFS-HDG	75
Plastic snap clip	138	QFFSS	49
Plastic text insert	204	QFFSS-HDG	75
PNL	55	QFFT	48
PNL-HDG	83	QFFT-HDG	72
PNL-SS	104	QFFT-SS	101
PNP	55	QFI	47
PNP-HDG	82	QFI-HDG	70
PNP-SS	104	QFI-SS	100
PNS	55	QFMP	49
PNS-HDG	82	QFMP-SS	102
PNS-SS	104	QFNH	44
PO	218	QFNH-HDG	68
PP	138	QFNH-SS	98
PS	150	QFT	47
PSB	235	QFT-HDG	71
PSB-P	235	QFT-SS	100
PS-SS	179, 180	QFTT	48
PUN	154, 155	QFTT-HDG	73
PVCUNI	128	QFTT-SS	101
		QFU	48
		QFU-HDG	73
		QFU-SS	101
		QFX	47
		QFX-HDG	70
		QFX-SS	100
		QKON	54
		QKON-HDG	78
		QLCA	54
		QLCA-HDG	78
		QLFFA	130
		QLFN	129
		QLRN	129
		QRN	44
		QRN-HDG	68
		QRN-SS	98
		QTB	46
		Quadro	188
		QUB	53
		QUB-HDG	79
Q			
QB	53		
QB41	51		
QB41-HDG	76		
QB41-SS	103		
QB82	51		
QB82-HDG	76		
QB124	52		
QB124-HDG	77		
QBF	54		
QBF-HDG	79		
QB-HDG	79		
QBS	51		
QBS-HDG	76		
QBS-SS	103		
QCA	53		
QCA-HDG	78		
QCN	45		
QCN-HDG	69		
QCN-SS	99		
QCPS	81		
QCSE	80		
QCSM	80		
QEN	45		
QEN-HDG	69		
QFA	47		
QFA 135	48		
QFA 135-HDG	72		
QFA 135-SS	101		
QFA-HDG	70		
QFA-SS	100		
QFAZ	48		
QFAZ-HDG	72		
QFAZ-SS	101		
QFCD	74		
QFCD-SS	102		
QFCL-QFCR	49		
QFCL-QFCR-HDG	74		
QFCL-QFCR-SS	101		
QFDC	50		
QFDC-HDG	74		
QFDC-SS	102		
QFDD	50		
QFFA	47		
QFFA45	48		
QFFA45-HDG	73		
QFFA60	80		
QFFA 135	47		
QFFA 135-HDG	71		
QFFA 135-SS	100		
		R	
		Reinforced duct tape	201
		Retaining strap	209
		RG	239
		Rod connectors and reducers	244, 245, 254, 259
		Rod connectors and reducers Galvanised	244
		Rod connectors and reducers Hot Dip Galvanised	254
		Rod connectors and reducers Stainless Steel	259
		Rod Swivel	182
		ROHR	243
		Roof Drainage Fix point DN40 to DN160	163
		Roof Drainage Fix point DN200 to DN315	163
		Roof Drainage Pipe Clip	162
		RS	182
		Rubber Anti Vibration Parts	203
		Rubber Lining	202
		Rubber Pipe Clip Lining EPDM	202
		Rubber Pipe Clip Lining Silicon	202
		Rubber Sound Insulation for UNI channels	202
		Rubber Sound Insulation for UNISTRUT channels	202
		S	
		Sammy Concrete Installation Kit	234
		Sammy M10 Vertical for concrete	233
		Sammy M10 vertical for steel roofs	214
		Sammy M10 vertical for steel roofs with nut	213
		Sammy Vertical Installation Socket	214
		Sammy X-press installation Tool	215
		Sammy X-press M10 for steel roofs	215



SB	168	TCB	211
SCI-KIT	234	TCS	201
SDS	229	TD	212, 213
Self drilling screw DIN7504K	200	TEK50	214
Setting tool for non drill anchor	220	Threaded Rod cutter	243
Setting tool for non drill anchor type Zykon	222	Threaded Rod DIN 975	242
Setting tool for steel anchors type Zykon	225	Threaded Rod DIN 975 Hot Dip Galvanised	253
SF-L	59	Threaded Rod DIN 975 Stainless Steel	258
SF-LUNI	132	Threaded Rod, Studs & Tubes Galvanised	242
SF-S	59	Threaded Rod, Studs & Tubes Hot Dip Galvanised	253
SF-SUNI	132	Threaded Rod, Studs & Tubes Stainless Steel	258
SH	216	Threaded Stud DIN 976	242
Sidebeam Attachments	169, 170	Threaded Stud DIN 976 Stainless Steel	258
Silicon	202	Threaded Tube	243
Single Channels - Galvanised	33	Tipping dowel for hollow ceilings	213
Single Channels - Hot Dip Galvanised	62	TPS	201
Single Channels - Stainless Steel	94	TPVC	201
Single channel T1100T	34	Trapeze ceiling fixing	211, 212
Single Channel T2000T	33	TRR	201
Single Channel T3100T10T3100T10	34	TUBE	243
Single channel T4000T10	33	Type 91	208
Slideblock for Unistrut channel	184	Type H	168
Slide Guide Type H	187	Type L	167
Slide Guide Type H Slide Guides	187	Type M	167
Slide Guide Type M	186, 189		
Slide Guide Type M Slide Guides	186		
Slide Guide Type M Stainless Steel	189		
Slide Guide Type Quadro Slide Guides	188		
Slide Guide Type S	185		
Slide Guide Type S Slide Guides	184		
SN	56		
SN-SS	104		
Soft PVC Duct tape	201		
SOLID ADAPTER	245		
Solid N	147		
Solid ND	152		
Solid N - Delta Tone	152		
Solid R	148		
Solid RD	153, 162		
Solid R - Delta Tone	153		
Solid S	149		
Sound Insulator	203		
SPH	165		
Sprinkler hanger	164, 165, 166		
Sprinkler Hangers	164		
SS2A-SS2N	175		
SS2A-SS2N-SS	180, 181		
Stainless Steel	125		
Stainless Steel Pipe Clips	176		
Stainless Steel Slide Guide Type M Slide Guides	189		
Standard N	142		
Standard P	144		
Standard R	143		
Standard-R-SS	176		
Steel anchor	218		
Steel anchor FAZ	226		
Steel anchors type Zykon	224		
Steel cylinder to support PU insulation shells	160, 161		
Strap	208, 209		
Strap-FLS	209		
Stud nut for UNI channels	130		
T			
T1100T	34		
T1100T-SS	95		
T2000T	33		
T2773T	113		
T2773T-HDG	115		
T2774T10	113		
T2774T10-HDG	115		
T3100T10	34		
T4000T10	33		
TBU	130		
TCAB	211, 212		
TCABNR	211, 212		
U			
U28 U40 + U20 35	241		
UBC	208		
U bolt	172, 173		
U-bolt assembly with 2 nuts & 2 washers	171		
U bolt for universal brace - QUB	53		
U bolt for universal brace - QUB-HDG	79		
U-Bolts & Channel Pipe Clip	171		
UNI	202		
UNI0	126		
UNI0 channel 27 x 18 mm	126		
UNI1	126		
UNI1 channel 30 x 15 mm	126		
UNI2	127		
UNI2 channel 30 x 30 mm	127		
UNI3	127		
UNI3 channel 35 x 20 mm	127		
UNI angle fitting 45° - UNI L45	131		
UNI angle fitting 45° - UNI LH45	131		
UNI angle fitting 90° - UNI L90	131		
UNI angle fitting 90° - UNI LH90	132		
UNI Angle Fittings	131		
UNI Beamclamps	131		
UNI cantilever arm UNI-KON	133		
Uni cantilever arm UNI-KONS	133		
UNI Channel endcaps	127		
UNI Channel Foot Brackets SF-LUNI	132		
UNI Channel Foot Brackets SF-SUNI	132		
UNI Channel Nuts	131		
UNI Channel Nuts & Stud Nuts	130		
UNI Channels	126		
UNICLIP COOL CYL	160, 161		
UNI-KON	133		
UNI-KONS	133		
UNI L45	131		
UNI L90	131		
UNI LH45	131		
UNI LH90	132		
UNISTRUT	202		
Unistrut angle bracket	125		
Unistrut angle bracket KON100	120		
Unistrut angle bracket KON150	120		
Unistrut angle bracket KON200	121		
Unistrut angle fitting P1075-8	117		
Unistrut Angle Fittings 90°	57		
Unistrut Angle Fittings 90° - Galvanised	58		
Unistrut Angle Fittings 90° - Hot Dip Galvanised	86		
Unistrut Angle Fittings 90° - P1026-HDG	86		
Unistrut Angle Fittings 90° - P1026-SS	106		
Unistrut Angle Fittings 90° - P1037-HDG	87		

Unistrut Angle Fittings 90° - P1038-HDG	88	Unistrut Channels 41mm Stainless Steel	94
Unistrut Angle Fittings 90° - P1068-HDG	86	Unistrut Channel trolleys assembly - Galvanised	61
Unistrut Angle Fittings 90° - P1068-SS	106	Unistrut Channel trolleys assembly P2749	61
Unistrut Angle Fittings 90° - P1278-HDG	86	Unistrut Channel trolleys assembly P2750/1	61
Unistrut Angle Fittings 90° - P1278-SS	106	Unistrut Channel trolleys assembly P2949	61
Unistrut Angle Fittings 90° - P1325-HDG	86	Unistrut Channel trolleys assembly P2950	61
Unistrut Angle Fittings 90° - P1325-SS	106	Unistrut Double Channel P1001	97
Unistrut Angle Fittings 90° - P1326-HDG	86	Unistrut Double Channel P1001T	39, 66, 97
Unistrut Angle Fittings 90° - P1326-SS	106	Unistrut Double Channel P3301T10	39, 96
Unistrut Angle Fittings 90° - P1346-HDG	87	Unistrut Double Channel P3301T10 Hot Dip Galvanised	66
Unistrut Angle Fittings 90° - P1346-SS	106	Unistrut Double Channel P5001T	40, 67
Unistrut Angle Fittings 90° - P1359-HDG	87	Unistrut Double Channel P5001T	40, 67
Unistrut Angle Fittings 90° - P1359-SS	107	Unistrut Double Channel P8001T	41
Unistrut Angle Fittings 90° - P1458-HDG	87	Unistrut Fittings 41mm Galvanised	55
Unistrut Angle Fittings 90° - P1458-SS	107	Unistrut Fittings 41mm Hot Dip Galvanised	82
Unistrut Angle Fittings 90° - P1727-HDG	87	Unistrut Fittings 41mm Stainless Steel	104
Unistrut Angle Fittings 90° - P1727-SS	107	Unistrut Flat Fitting P1580-HDG	86
Unistrut Angle Fittings 90° - P2484-HDG	87	Unistrut Flat Fittings - Galvanised	57
Unistrut Angle Fittings 90° - P2484-SS	107	Unistrut Flat Fittings - Hot Dip Galvanised	83
Unistrut Angle Fittings 90° - Stainless Steel	106	Unistrut Flat Fittings P1019&20-HDG	82
Unistrut cantilever arm 41x41x2.5mm	114	Unistrut Flat Fittings P1031-HDG	85
Unistrut cantilever arm P1000T - P2665-HDG	117	Unistrut Flat Fittings P1031-SS	105
Unistrut cantilever arm P1000T Stainless Steel	125	Unistrut Flat Fittings P1036-HDG	85
Unistrut cantilever arm P2668-HDG	116	Unistrut Flat Fittings P1036-SS	105
Unistrut Cantilever Arms Hot Dip Galvanised	115	Unistrut Flat Fittings P1062-SS	104
Unistrut Channel Base Fittings - Hot Dip Galvanised	91	Unistrut Flat Fittings P1063	57
Unistrut Channel Base Fittings P2072A-HDG	92	Unistrut Flat Fittings P1063-SS	104
Unistrut Channel Base Fittings P2072A-SS	110	Unistrut Flat Fittings P1065-HDG	83
Unistrut Channel Base Fittings P2072-S1-HDG	92	Unistrut Flat Fittings P1065-SS	105
Unistrut Channel Base Fittings P2072-S1-SS	110	Unistrut Flat Fittings P1066-HDG	83
Unistrut Channel Base Fittings P2072-S2-HDG	91	Unistrut Flat Fittings P1066-SS	105
Unistrut Channel Base Fittings P2072-S2-SS	110	Unistrut Flat Fittings P1067-HDG	84
Unistrut Channel Base Fittings P2072-S3-HDG	91	Unistrut Flat Fittings P1067-SS	105
Unistrut Channel Base Fittings P2073A-HDG	92	Unistrut Flat Fittings P1358-HDG	85
Unistrut Channel Base Fittings P2073A-SS	111	Unistrut Flat Fittings P1941-HDG	84
Unistrut Channel Base Fittings P2073-HDG	92	Unistrut Flat Fittings P1941-SS	105
Unistrut Channel Base Fittings P2073-SS	111	Unistrut Flat Fittings P1964	57
Unistrut Channel Base Fittings P2346-HDG	93	Unistrut Flat Fittings P2322-HDG	84
Unistrut Channel Base Fittings P2346-SS	111	Unistrut internal Channel Couplers P1218	60
Unistrut Channel Base Fittings P2348-S1-HDG	92	Unistrut internal Channel Couplers P1219	60
Unistrut Channel Base Fittings P2348-S1-SS	111	Unistrut single channel P1000	36, 63, 95
Unistrut Channel Base Fittings P2348-S2-HDG	92	Unistrut single channel P1000T	36, 64, 96
Unistrut Channel Base Fittings P2348-S2-SS	111	Unistrut single channel P1100TH	63
Unistrut Channel Base Fittings - Stainless Steel	110	Unistrut single channel P1300T	37
Unistrut channel beamclamp P2785-86-SS	108	Unistrut single channel P3300	35, 62, 94
Unistrut Channel Beamclamps C711-HDG	90	Unistrut single channel P3300T10	35, 62, 94
Unistrut Channel Beamclamps C711-SS	108	Unistrut single channel P5000T	38, 65
Unistrut Channel Beamclamps - Galvanised	59	Unistrut single channel P5500T	37, 64
Unistrut Channel Beamclamps - Hot Dip Galvanised	90	Unistrut single channel P8000T	38
Unistrut Channel Beamclamps P1271-HDG	91	Unistrut single channel T1100T	95
Unistrut Channel Beamclamps P1271-SS	108	Unistrut Special Adjustable Angle Fittings P1354	58
Unistrut Channel Beamclamps P1272-HDG	91	Unistrut Special Adjustable Angle Fittings P2815S	58
Unistrut Channel Beamclamps P1272-SS	108	Unistrut Special Angle Fittings - Galvanised	58
Unistrut Channel Beamclamps P1386-HDG	90	Unistrut Special Angle Fittings - Hot Dip Galvanised	88
Unistrut Channel Beamclamps P1386-SS	108	Unistrut Special Angle Fittings P1074-HDG	88
Unistrut Channel Beamclamps P1983-HDG	91	Unistrut Special Angle Fittings P1074-SS	107
Unistrut Channel Beamclamps P2489-HDG	90	Unistrut Special Angle Fittings P1186-HDG	88
Unistrut Channel Beamclamps P3087-HDG	91	Unistrut Special Angle Fittings P1186-SS	108
Unistrut Channel Beamclamps P3087-SS	109	Unistrut Special Angle Fittings P1546-HDG	88
Unistrut Channel Beamclamps - Stainless Steel	108	Unistrut Special Angle Fittings P1546-SS	107
Unistrut channel connector	93	Unistrut Special Angle Fittings P2097-HDG	88
Unistrut Channel Couplers - Hot Dip Galvanised	93	Unistrut Special Angle Fittings P2101-HDG	88
Unistrut Channel Couplers P1377-HDG	93	Unistrut Special Angle Fittings - Stainless Steel	107
Unistrut Channel Couplers P1377-SS	112	Unistrut Stud Nuts - Galvanised	56
Unistrut Channel Couplers - Stainless Steel	112	Unistrut Stud Nuts SN	56
Unistrut Channel Foot brackets - Galvanised	59	Unistrut Stud Nuts SN-SS	104
Unistrut Channel Foot brackets SF-L	59	Unistrut Stud Nuts - Stainless Steel	104
Unistrut Channel Foot brackets SF-S	59	Unistrut U & Z Fittings - Hot Dip Galvanised	89
Unistrut Channel Nuts	55, 82, 104	Unistrut U & Z Fittings P1043-HDG	89
Unistrut Channel Nuts - Galvanised	55	Unistrut U & Z Fittings P1043-SS	109
Unistrut Channel Nuts - Hot Dip Galvanised	82	Unistrut U & Z Fittings P1044-HDG	89
Unistrut Channel Nuts long spring	55, 83, 104	Unistrut U & Z Fittings P1045-HDG	90
Unistrut Channel Nuts short spring	55, 82, 104	Unistrut U & Z Fittings P1045-SS	110
Unistrut Channel Nuts - Stainless Steel	104	Unistrut U & Z Fittings P1047-HDG	89
Unistrut Channels 41mm Galvanised	33	Unistrut U & Z Fittings P1047-SS	109
Unistrut Channels 41mm Hot Dip Galvanised	62	Unistrut U & Z Fittings P1347-HDG	90



Unistrut U & Z Fittings P1347-SS	110
Unistrut U & Z Fittings P1453-HDG	90
Unistrut U & Z Fittings P1453-SS	109
Unistrut U & Z Fittings P1737-HDG	89
Unistrut U & Z Fittings P1737-SS	109
Unistrut U & Z Fittings P4045-HDG	89
Unistrut U & Z Fittings P4045-SS	110
Unistrut U & Z Fittings P4047-HDG	89
Unistrut U & Z Fittings P4047-SS	109
Unistrut U & Z Fittings - Stainless Steel	109
Unistrut Vertical Support Hot Dip Galvanised	118
Unistrut Vertical Support with channel P1000T - KM	119
Unistrut Vertical Support with channel P1001T - KH	119
Unistrut Vertical Support with channel P3300T - KL	118
Unistrut Vertical Support with channel P3301T - KLD	118
Unistrut Wing Fittings - Hot Dip Galvanised	93
Unistrut Wing Fittings P2223-HDG	93
Unistrut Wing Fittings P2341L-HDG	93
Unistrut Wing Fittings P2341L-SS	112
Unistrut Wing Fittings P2341R-HDG	93
Unistrut Wing Fittings P2341R-SS	111
Unistrut Wing Fittings - Stainless Steel	111
Universal brace fitting for Unistrut channels - QB	53
Universal brace fitting - QB-HDG	79
US	184
U Shaped Washer for 41mm width channel	58
U-shaped washer for UNI channel	130
USP	164

V

VDBH	196
VDBL	195
VDBT	196
VDBZ	195
VDC	200
Ventilation duct bracket Type L with sound insulator	195
Ventilation duct bracket Type Z with sound insulator	195
Ventilation duct bracket with sound insulator	196
Ventilation Duct Clamp	200
Vertical Fix Point	192
Vertical Fix Point Fix Points	192
VFP-KON	192
VISUAL	244
VN	215
V Nut	215

W

W	216
Washers DIN 125-1A	241
Washers DIN 125-1A Hot Dip Galvanised	252
Washers DIN 125-1A Stainless Steel	257
Washers DIN 127B	241
Washers DIN 127B Hot Dip Galvanised	252
Washers DIN 127B Stainless Steel	257
Washers DIN 9021	241
Washers DIN 9021 Hot Dip Galvanised	252
Washers DIN 9021 Stainless Steel	257
Washers Galvanised	241
Washers Stainless Steel	257
Washers U28 U40 + U20 35	241
WHIZLOCK	240
Wood fixings	246, 247
Wood fixings Galvanised	246
WT-MT	246
WT-OE	248

X

XP20	214, 215
XP-IT	215

Z

Z	215
ZA	224
ZE	225
ZEA	220, 221
ZEA-SS	221
ZED	222
Zinc Paint	43
Zinc Spray	43
Z Purlin clamp	215
ZUB	221, 222

The content of this catalogue does not constitute an offer to sale. The products and specifications published herein are for general evaluation and reference purposes only and are subject to change without notice. The information provided in this catalogue should not be relied on as a substitute for professional advice. ALL INFORMATION HEREIN IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED. Terms and Conditions of sale can be found on www.kwikstrut.com. For more information please visit our website or contact our customer service team.



Two columns of horizontal dotted lines for writing notes.



Global Strength. Local expertise. At your service

Regional offices Europe, Middle East, Africa

AUSTRIA (VIENNE)

Tel: +43 (0)1 271 0049
Fax: +43 (0)1 271 0142

BELGIUM (MECHELEN)

Tel: +32 (0)15 285 555
Fax: +32 (0)15 206 076

CZECH REPUBLIC (LIBEREC)

Tel: + 420 482 736 291
Fax: + 420 482 736 293

FRANCE (PARIS)

Tel: +33 (0)1 48 178 727
Fax: +33 (0)1 48 178 720

GERMANY (RODGAU)

Tel: +49 (0)6106 84455
Fax: +49 (0)6106 18177

HUNGARY (BUDAPEST)

Tel: +36 (0)1 481 1383
Fax: +36 (0)1 203 4427

ITALY (MILAN)

Tel: +39 (0)331 583 000
Fax: +39 (0)331 583 030

NORWAY (LØRENSKOG)

Tel: +47 6791 7700
Fax: +47 6791 7715

RUSSIA

Tel: +31 (0)53 428 4444
Fax: +31 (0)53 428 3377

SPAIN (MADRID)

Tel: +34 (0)91 380 74 60
Fax: +34 (0)91 380 74 61

SWEDEN (LAMMHULT)

Tel: +46 (0)472 269 980
Fax: +46 (0)472 269 989

NETHERLANDS (ENSCHDEDE)

Tel: +31 (0)53 428 4444
Fax: +31 (0)53 428 3377

TURKEY (ANKARA)

Tel: +90 312 473 70 11
Fax: +90 312 473 73 92

UNITED ARAB EMIRATES (DUBAI)

Tel: +971 (0)4 883 8689
Fax: +971(0)4 883 8674

UK AND IRELAND (MANCHESTER)

Tel: +44 (0)161 2594 000
Fax: +44 (0)161 8750 491

