

M.E.P Hanger and Supports

Introduction to

STAR ASIA Technology Investment Joint Stock Company

About Us

Star Asia Technology Investment Joint Stock Company (NSCA), under the Starduct brand, is one of the leading manufacturers and suppliers of technical auxiliary products for MEP systems in Vietnam. With over 20 years of experience, NSCA has built a strong reputation in both domestic and international markets. In 2024, NSCA's revenue surpassed 10 million USD, highlighting its sustainable growth and competitive strength in the HVAC and construction auxiliary industries, even during challenging times such as the post-COVID era and global crises.

NSCA not only meets the high technical requirements of major domestic projects but also actively promotes exports to international markets, gradually establishing the position of Vietnamese products on the global stage. With the mission "Creating quality, elevating Vietnamese value," NSCA has always been a trusted partner for customers both at home and abroad.

Certifications and Achievements

- ISO 9001:2015: International quality management system certification.
- UL 203/FM 1950/CE Certification: For suspension and support systems, meeting stringent fire safety standards.
- National Certification for Fire Safety Equipment: For fire-rated ducts and dampers, compliant with QCVN 06:2023/BXD standards.
- National Patents: Two patents awarded in 2024 in the field of fire safety.
- AHRI 880 Certification: Awarded in 2024 for VAV boxes.
- AMCA Membership: The sole representative from Vietnam in the Global Air Movement and Control Association since 2019.
- Longtime Member of the Vietnam Mechanical Enterprises Association: Actively contributing to the development of Vietnam's mechanical industry.
- Member of ASHRAE: Since 2016, with internationally recognized and certified products.

Major Projects in 2024:

NSCA has supplied products to key projects such as Long Thanh Airport, Tan Son Nhat Terminal 3, Noi Bai Terminal 2, Hanoi and Ho Chi Minh City metro lines, government headquarters, and major industrial zones such as Hoa Phat Dung Quat, Luxshare, Foxconn, and Amkor.

Investment and Development

NSCA has invested in a new factory covering over 15,000 square meters, along with a modern headquarters of nearly 1,000 square meters. Additionally, the company has equipped testing labs to evaluate acoustic performance for products like silencers and acoustic louvers, as well as airflow performance for dampers, grilles, and weather louvers. These labs comply with international technical standards (ASTM 477/ISO 7025), ensuring the superior quality of NSCA's products.

Vision and Commitment

NSCA is committed to serving the "Era of Vietnam's Rise" by contributing to national projects such as metro lines, railway stations, airports, high-class office buildings, and advanced industrial zones. Additionally, NSCA is seizing □Golden opportunities□ to expand exports in the renewable energy sector, targeting an export ratio of 40-50% of annual revenue.

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UNISTAR PIPE SUPPORTS

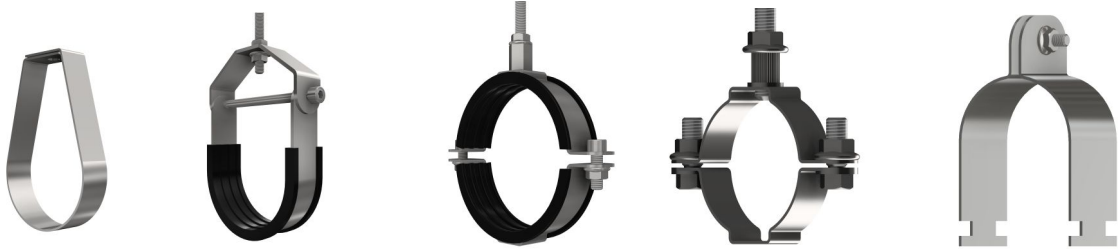
The Unistar® pipe support systems covers an extensive range of hangers, pipe clips, pipe clamps ferrules and cushioning, hanger fittings, beam clamps, beam attachments, and support brackets. The range covers from small bore tubing through to pipes in excess of 600mm diameter.

UNISTAR SPRINKLER PIPE SUPPORTS

In addition to our standard range of pipe supports for general industry, mechanical services and others, the Unistar® range also includes pipe supports specifically designed for the fire protection industry.

PIPE HANGER AND SUPPORTS

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Loop Hanger UTT 40 Clevis Hanger UTT30 Rubber Lined Pipe Clamp UUTT61 Plain Pipe Clamp UTT62 Two-piece Pipe Clamp UTT80

PIPE HANGER AND SUPPORTS

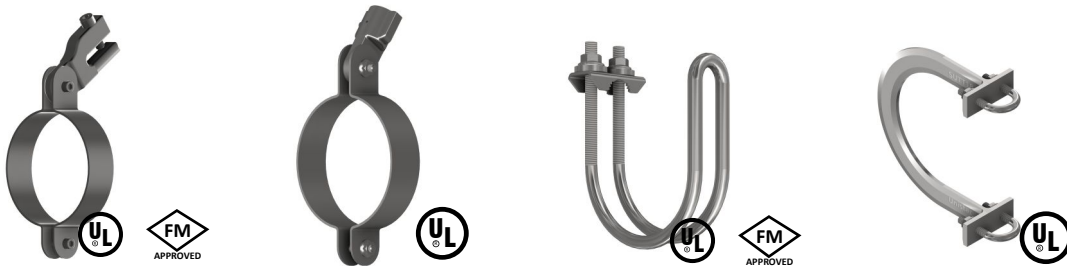
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Insulation Pipe Clamp UTT8003 U bolts UTT81 Standard Saddle Clamp UTT12C Riser Clamp UTT50 Standard Pipe Clamp UTT60

SWAY BRACE FITTING 

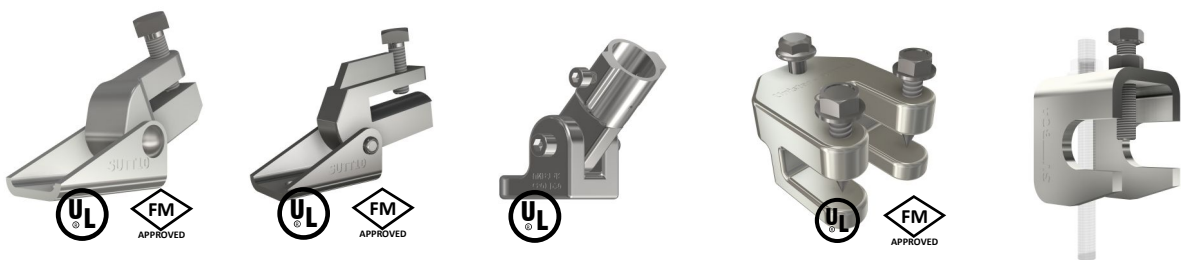
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Pipe clamp UTT20 Pipe clamp UTT20Q Pipe clamp UTT13 Pipe clamp UTT18

STRUCTURE ATTACHMENT FITTING AND ADAPTERS 

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Structure Attachment UTT10Q Structure Attachment UTT10 Structure Attachment UTT071 Structure Attachment UTT11 Structure Attachment UTTBC4

Structure Attachment

Model: **UTTH10**

- **Functions:** Design for bracing pipe against sway and seismic disturbance. The pipe attachment of a sway brace system used in conjunction with UTTF10 structural attachment fitting and joint together with a bracing pipe element forms a complete sway NFPA 13 and the manufacture's installation instructions.
- **Type:** Sprinkler Pipe Sch 10, Sch 40, GB/T 3091, JIS G3454
- **Size:** One size fits braced pipe up to Dn200, With M12 Bolt hole for structure.
- **Material:** Carbon Steel
- **Finish:** Electro-galvanized
- **Approvals:**



UL Maximum Design Load				
Brace Member	lbs.	kN	Weight Each Piece	
			lbs.	kg
Dn25 (1") SCH40 Pipe	1885	(8.38)	1.54	(0.7)

FM Maximum Design Load						
Brace Member	Horizontal load ratings installation angle 30°-44°		Horizontal load ratings installation angle 45°-59°		Weight Each Piece	
	lbs.	kN	lbs.	kN	lbs.	kg
Dn25 (1") SCH40 Pipe	1490	(6.62)	1980	(8.80)	1.54	(0.7)

Installation Steps

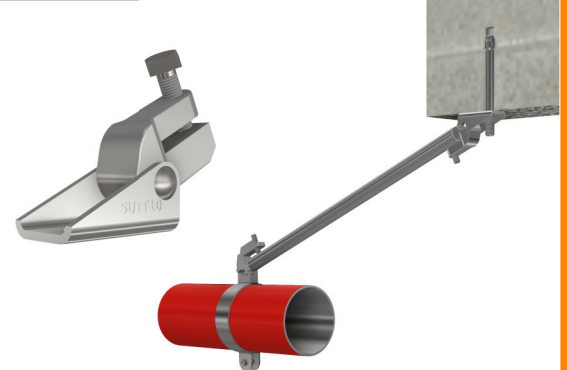
Step 1 **Step 2** **Step 3**

The connection mode of base part connected with the building. The accessories connected with the base part is sch40 1 inch pipe. The pipe must be clamped to the bottom of the base part, then fixed with the shear bolt. Tighten the shear bolt until heads break off.

Structure Attachment

Model: **UTTH10Q**

- **Functions:** Design for bracing pipe against sway and seismic disturbance. The pipe attachment of a sway brace system used in conjunction with UTTF10Q structural attachment fitting and joint together with a bracing pipe element forms a complete sway NFPA 13 and the manufacture's installation instructions.
- **Type:** Sprinkler Pipe Sch 10, Sch 40, GB/T 3091, JIS G3454
- **Size:** One size fits braced pipe up to Dn200, With M12 Bolt hole for structure.
- **Material:** Carbon Steel
- **Finish:** Electro-galvanized
- **Approvals:**



UL Maximum Design Load				
Brace Member	lbs.	kN	Weight Each Piece	
			lbs.	kg
Dn25 (1") SCH40 Pipe	1885	(8.38)	1.82	(0.83)

Installation Steps

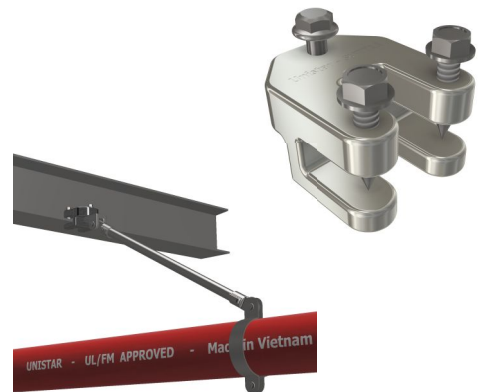
Step 1 **Step 2** **Step 3**

The connection mode of base part connected with the building. The accessories connected with the base part is sch40 1 inch pipe. The pipe must be clamped to the bottom of the base part, then fixed with the shear bolt. Tighten the shear bolt until heads break off.

Beam Adapter

Model: **UTT11**

- **Functions:** Design for bracing pipe against sway and seismic disturbance. The pipe attachment of a sway brace system used in conjunction with UTT11 structural attachment fitting and joint together with a bracing pipe element forms a complete sway NFPA 13 and the manufacture's installation instructions.
- **Type:** Sprinkler Pipe Sch 10, Sch 40, GB/T 3091, JIS G3454
- **Size:** One size fits braced pipe up to Dn200, With M12 Bolt hole for structure.
- **Material:** Ductile iron Qt45
- **Finish:** Electro-galvanized
- **Approvals:**



UL Maximum Design Load				
Brace Member	lbs.	kN	Weight Each Piece	
			lbs.	kg
Dn25 (1") SCH40 Pipe	1890	(4.84)	1.94	(0.88)

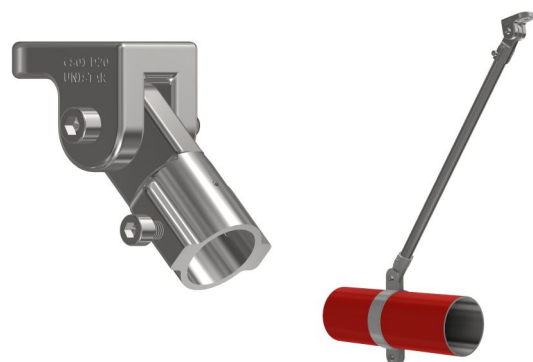
FM Maximum Design Load						
Brace Member	Horizontal load ratings installation angle 30°-44°		Horizontal load ratings installation angle 45°-59°		Weight Each Piece	
	lbs.	kN	lbs.	kN	lbs.	kg
Dn25 (1") SCH40 Pipe	970	(4.31)	1660	(7.38)	1.94	(0.88)

Installation Steps		
Step 1	Step 2	Step 3
<p>The installation procedure of SUTT11 accessories as shown in the figure, the connecting accessories use the SUTT11, The installation torque of bolt is 50-60Nm. Tighten the shear bolt until heads break of after gripping the H steel. The maximum thickness of H beam steel is 16mm</p>		

Structure Attachment

Model: **UTT071**

- **Functions:** Design for bracing pipe against sway and seismic disturbance. The pipe attachment of a sway brace system used in conjunction with UTT071 structural attachment fitting and joint together with a bracing pipe element forms a complete sway NFPA 13 and the manufacture's installation instructions.
- **Type:** Sprinkler Pipe Sch 10, Sch 40, GB/T 3091, JIS G3454
- **Size:** One size fits braced pipe up to Dn200, With M12 Bolt hole for structure.
- **Material:** Ductile iron Qt45
- **Finish:** Electro-galvanized
- **Approvals:**



UL Maximum Design Load				
Brace Member	lbs.	kN	Weight Each Piece	
			lbs.	kg
Dn25 (1") SCH40 Pipe	1885	8.38	2.22	1.01

Installation Steps		
Step 1	Step 2	Step 3
<p>The installation mode of SUTT071 base part confined with the building, the installation torque of bolt M12 is 50-60Nm. The accessories of SUTT071 base part use sch40-1 inch pipe. The connecting pipe should be inserted into the bttom according to the direction shown in the figure, and tighten with shear bolt until heads break off.</p>		

U Lateral Bracing Clamp

Model: **UTT18**

- **Functions:** Design for bracing pipe against sway and seismic disturbance. The pipe attachment of a sway brace system used in conjunction with UTT18 structural attachment fitting and joint together with a bracing pipe element forms a complete sway NFPA 13 and the manufacture's installation instructions.
- **Type:** Sprinkler Pipe Sch 10, Sch 40, GB/T 3091, JIS G3454
- **Size:** For pipe size from 2" (Dn50) to 8" (Dn200)
- **Material:** Ductile iron Qt50
- **Finish:** Electro-galvanized
- **Approvals:**



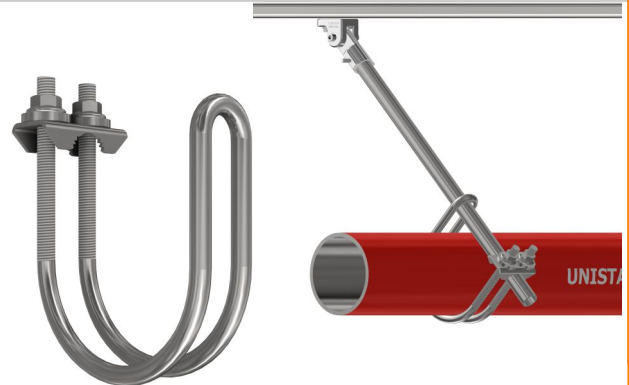
UL Maximum Design Load				
Pipe Size in/(mm)	lbs.	kN	Weight Each Piece	
			1" (25mm) Brace Pipe	
			lbs.	kg
1. 1/2" (40)	680	3.02	1.23	0.56
2" (50)	680	3.02	1.36	0.62
2. 1/2" (65)	680	3.02	1.45	0.66
3" (80)	680	3.02	1.45	0.70
4" (100)	680	3.02	1.76	0.80
5" (125)	1090	4.84	2.16	0.98
6" (150)	1370	6.09	2.20	1.00
8" (200)	1370	6.09	2.79	1.27

Installation Steps	
Step 1 	Step 2
Install: The pipe clamp with pipe and other accessories's connection is as shown in the figure. The accessories of SUTT18 use the sch40 1 inch pipe. Tighten the nuts until 40-45 Nm once the four nuts are installed, the installation is complete.	

Quick Lateral Bracing Clamp

Model: **UTT13**

- **Functions:** Design for bracing pipe against sway and seismic disturbance. The pipe attachment of a sway brace system used in conjunction with UTT13 structural attachment fitting and joint together with a bracing pipe element forms a complete sway NFPA 13 and the manufacture's installation instructions.
- **Type:** Sprinkler Pipe Sch 10, Sch 40, GB/T 3091, JIS G3454
- **Size:** For pipe size from 2" (Dn50) to 8" (Dn200)
- **Material:** Carbon Steel
- **Finish:** Electro-galvanized
- **Approvals:**



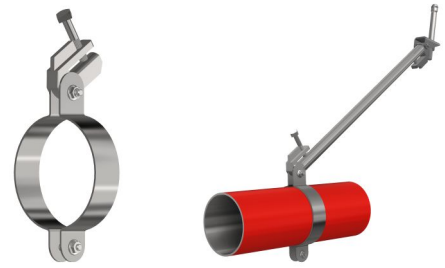
UL Maximum Design Load				
Pipe Size in/(mm)	lbs.	kN	Weight Each Piece	
			1" (25mm) Brace Pipe	
			lbs.	kg
1" (25)	680	3.02	0.71	0.35
1. 1/4" (32)	680	3.02	0.81	0.37
1. 1/2" (40)	680	3.02	0.86	0.39
2" (50)	680	3.02	0.92	0.42
2. 1/2" (65)	680	3.02	1.01	0.46
3" (80)	680	3.02	1.08	0.49
4" (100)	680	3.02	1.21	0.55
5" (125)	1090	4.84	1.37	0.62
6" (150)	1370	6.09	1.52	0.69
8" (200)	1370	6.09	1.81	0.82

FM Maximum Design Load						
Brace Member	Horizontal load ratings installation angle 30°-44°		Horizontal load ratings installation angle 45°-59°		Weight Each Piece	
	1" (25mm) Brace Pipe		1" (25mm) Brace Pipe		1" (25mm) Brace Pipe	
	lbs.	kN	lbs.	kN	lbs.	kg
2" (50)	590	2.62	840	3.73	0.92	0.42
2. 1/2" (65)	710	3.15	1010	4.49	1.01	0.46
3" (80)	540	2.40	770	3.42	1.08	0.49
4" (100)	540	2.40	770	3.42	1.21	0.55
6" (150)	270	1.20	390	1.73	1.52	0.69
8" (200)	210	0.93	290	1.28	1.81	0.82

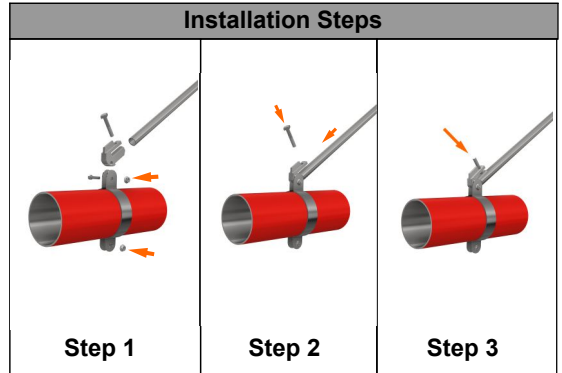
PIPE CLAMP

Model: **UTT20**

- **Functions:** Design for bracing pipe against sway and seismic disturbance. The pipe attachment of a sway brace system used in conjunction with UTT20 structural attachment fitting and joint together with a bracing pipe element forms a complete sway NFPA 13 and the manufacture's installation instructions.
- **Type:** Sprinkler Pipe Sch 10, Sch 40, GB/T 3091, JIS G3454
- **Size:** For pipe size from 2" (Dn50) to 8" (Dn200)
- **Material:** Carbon Steel
- **Finish:** Electro-galvanized
- **Approvals:**



UL Maximum Design Load				
Pipe Size in/(mm)	lbs.	kN	Weight Each Piece	
			1" (25mm) Brace Pipe	
			lbs.	kg
2" (50)	680	3.02	2.33	1.06
2.1/2"(65)	680	3.02	2.42	1.1
3" (80)	680	3.02	2.55	1.16
4" (100)	680	3.02	2.73	1.24
5" (125)	1090	4.84	3.92	1.78
6" (150)	1370	6.09	4.29	1.95
8" (200)	1370	6.09	4.93	2.24



FM Maximum Design Load				
Pipe Size in/(mm)	Horizontal load ratings installation angle 30°-44°		Horizontal load ratings installation angle 45°-59°	
	lbs.	kN	lbs.	kN
2" (50)	1070	4.75	1440	6.40
2.1/2"(65)	840	3.73	1120	4.98
3" (80)	1030	4.58	1560	6.93
4" (100)	650	2.89	890	3.95
6" (150)	830	3.69	1250	5.56
8" (200)	880	3.91	1150	5.11

Install the pipe clamp to the pipe, then install the bolt and nuts as the shown picture @ step 1.

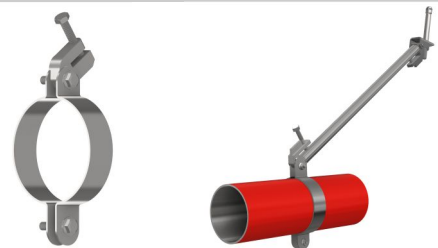
The accessories of SUTT20 use the sch40 1 inch pipe, the nuts torque of SUTT20 need to reach 100~115 Nm to make akk green marking lines visible in the bolts

After the installation of bolts and nuts and other accessories, the pipe must be lamped to the bottom of the accessories

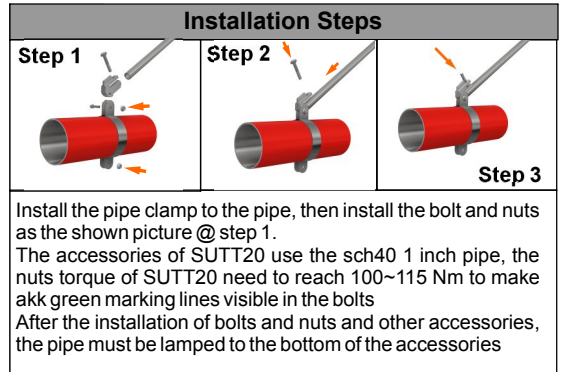
PIPE CLAMP

Model: **UTT20Q**

- **Functions:** Design for bracing pipe against sway and seismic disturbance. The pipe attachment of a sway brace system used in conjunction with UTT20Q structural attachment fitting and joint together with a bracing pipe element forms a complete sway NFPA 13 and the manufacture's installation instructions.
- **Type:** Sprinkler Pipe Sch 10, Sch 40, GB/T 3091, JIS G3454
- **Size:** For pipe size from 2" (Dn50) to 8" (Dn200)
- **Material:** Carbon Steel and ductile iron Qt50
- **Finish:** Electro-galvanized
- **Approvals:**



UL Maximum Design Load				
Pipe Size in/(mm)	lbs.	kN	Weight Each Piece	
			1" (25mm) Brace Pipe	
			lbs.	kg
2" (50)	680	3.02	2.33	1.06
2.1/2"(65)	680	3.02	2.42	1.1
3" (80)	680	3.02	2.55	1.16
4" (100)	680	3.02	2.73	1.24
5" (125)	1090	4.84	3.92	1.78
6" (150)	1370	6.09	4.29	1.95
8" (200)	1370	6.09	4.93	2.24



Install the pipe clamp to the pipe, then install the bolt and nuts as the shown picture @ step 1.

The accessories of SUTT20 use the sch40 1 inch pipe, the nuts torque of SUTT20 need to reach 100~115 Nm to make akk green marking lines visible in the bolts

After the installation of bolts and nuts and other accessories, the pipe must be lamped to the bottom of the accessories

CLEVIS HANGER

MODEL: UTT 30

Function:

Recommend for suspension of non-insulated stationary pipe line.

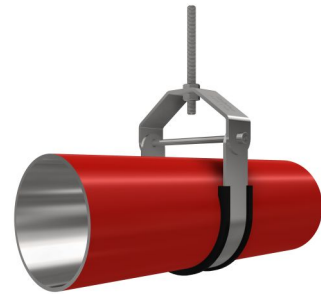
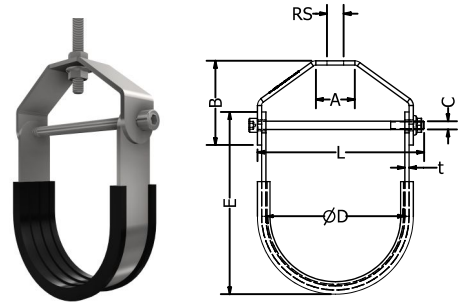
Size : 1/2" to 12"

Material: Carbon Steel

Finish: Black, Powder coating, Galvanized

Approvals: Non

Size		A	B	C	D	E	T	L	RS	Max Rec. Load	
in	mm	mm	mm	mm	mm	mm	mm	mm	mm	lbs	KN
1/2"	DN15	30	28	M6	21.3	41	2.5	50	M10	610	2.71
3/4"	DN20	35	30	M6	26.7	51	2.5	55	M10	610	2.71
1"	DN25	42	32	M6	33.4	56	2.5	60	M12	730	3.24
1-1/4"	DN32	51	40	M6	42.2	68	2.5	70	M12	760	3.24
1-1/2"	DN40	24	43.5	M6	48.2	70	2.5	80	M12	730	3.24
2"	DN50	25	45.5	M6	60.3	82	3	90	M12	730	3.24
2-1/2"	DN65	32	56	M10	73	107	3	110	M12	1350	6.00
2-1/2"	DN65	40	56	M10	76	107	3	110	M12	1350	6.00
3"	DN80	40	61	M10	88.9	121	3	120	M12	1350	6.00
3-1/2"	DN90	40	64	M10	101.6	135	4	140	M12	1350	6.00
4"	DN100	45	73.5	M10	114.3	148	4	150	M18	1350	6.36
5"	DN125	50	89.5	M12	141.3	183	5	180	M16	1430	6.36
6"	DN150	50	89	M12	168.3	217	5	220	M20	1940	8.63
8"	DN200	57	104	M16	219.1	275	5	280	M20	2000	8.89
10"	DN250	57	115.5	M16	273	339	6	340	M22	3600	16.00
12"	DN300	57	119.5	M18	323.9	389	6	380	M22	3800	16.90



LOOP HANGER

MODEL: UTT 40

Function:

Recommend for suspension of non-insulated stationary pipe line.

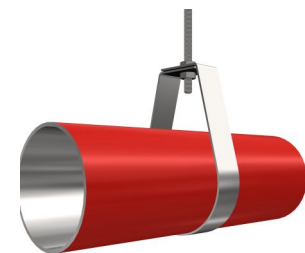
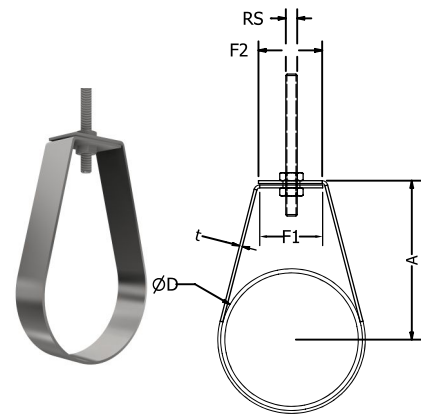
Size : 1/2" to 12"

Material: Carbon Steel

Finish: Black, Powder coating, Galvanized

Approvals: Non

Size		A	D	t	F1	F2	RS	Max Rec. Load	
in	mm	mm	mm	mm	mm	mm	mm	lbs	KN
1/2"	DN15	41.50	21.30	1.20	24.50	24.50	M10	300.00	1.33
3/4"	DN20	45.30	26.70	1.20	24.50	24.50	M10	300.00	1.33
1"	DN25	49.50	33.40	1.20	26.00	26.00	M10	300.00	1.33
1-1/4"	DN32	54.20	42.20	1.20	26.00	26.00	M10	300.00	1.33
1-1/2"	DN40	56.50	48.30	1.20	26.00	26.00	M10	300.00	1.33
2"	DN50	62.20	60.30	1.20	26.00	26.00	M10	300.00	1.33
2-1/2"	DN65	92.90	73.00	2.00	26.00	26.00	M10	525.00	2.33
3"	DN80	100.50	88.90	2.00	26.00	26.00	M10	525.00	2.33
3-1/2"	DN90	100.50	101.60	2.00	26.00	26.00	M10	585.00	2.60
4"	DN100	113.40	114.30	2.00	26.00	26.00	M10	650.00	2.89
5"	DN125	135.70	141.30	3.00	31.00	31.00	M12	1,000.00	4.45
6"	DN150	154.10	168.30	3.00	31.00	31.00	M12	1,000.00	4.45
8"	DN200	192.40	219.10	3.00	31.00	31.00	M12	1,000.00	4.45
10"	DN250	236.00	273.00	5.00	40.00	40.00	M16	1,000.00	4.45
12"	DN300	282.00	323.90	5.00	40.00	40.00	M16	1,000.00	4.45



STANDARD PIPE CLAMP
MODEL: UTT 60
Function:

Recommend for suspension of cold or hot lines where no insulation is required.

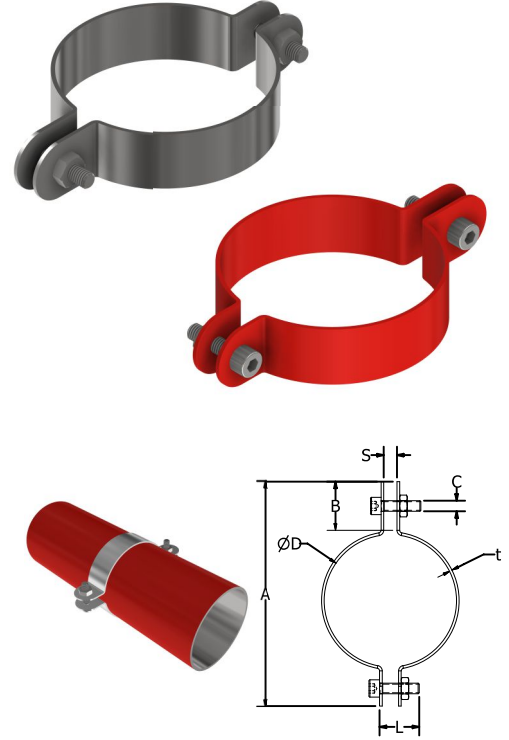
Size : 1/2" to 8"

Material: Carbon Steel

Finish: Black, Powder coating, Galvanized

Approvals: Non

Size		A	B	C	D	S	t	W	L	Max Rec. Load	
in	mm	mm	mm	mm	mm	mm	mm	mm	mm	lbs	KN
1/2"	DN15	78.00	9.90	M10	21.30	9.50	4.00	24.00	40.00	500.00	2.23
3/4"	DN20	81.00	11.80	M10	26.70	11.10	4.00	24.00	40.00	500.00	2.23
1"	DN25	95.00	15.10	M10	33.40	11.20	4.00	24.00	40.00	500.00	2.23
1-1/4"	DN32	99.00	19.50	M10	42.20	11.20	4.00	24.00	40.00	500.00	3.56
1-1/2"	DN40	108.00	22.50	M10	48.30	11.30	4.00	24.00	40.00	800.00	4.63
2"	DN50	138.00	28.50	M12	60.30	15.30	4.00	24.00	50.00	1,040.00	4.63
2-1/2"	DN65	165.00	35.00	M12	73.00	15.00	6.00	24.00	50.00	1,040.00	4.63
2-1/2"	DN65	165.00	35.00	M12	76.00	18.00	6.00	24.00	50.00	1,040.00	4.63
3"	DN80	185.00	42.00	M12	88.90	16.90	6.00	24.00	50.00	1,040.00	4.63
3-1/2"	DN90	196.00	48.00	M12	101.60	17.60	6.00	24.00	50.00	1,040.00	4.63
4"	DN100	223.00	54.00	M12	114.30	18.30	6.00	30.00	50.00	1,040.00	4.63
5"	DN125	238.00	68.00	M12	141.30	17.30	6.00	30.00	50.00	1,040.00	4.63
6"	DN150	264.00	81.00	M12	168.30	22.30	6.00	40.00	50.00	1,615.00	7.19
8"	DN200	315.00	106.50	M16	219.10	22.10	8.00	40.00	70.00	1,615.00	7.19


RISER CLAMP
MODEL: UTT 50
Function:

Recommend for suspension of cold or hot lines where no insulation is required.

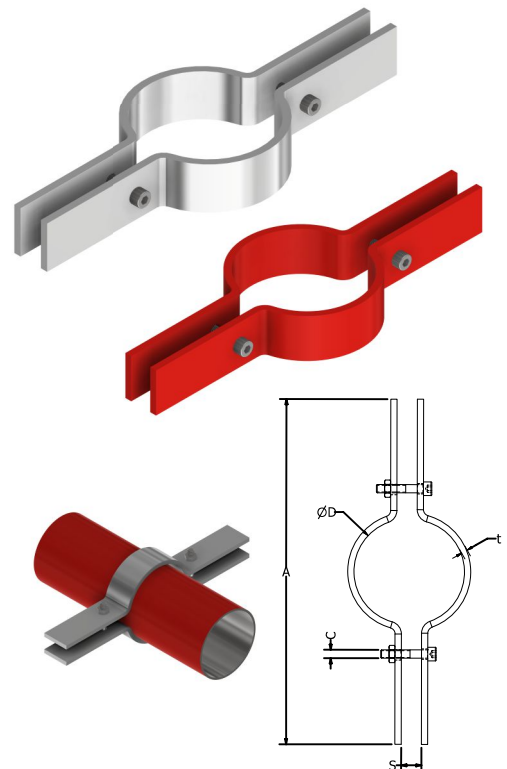
Size : 1/2" to 8"

Material: Carbon Steel

Finish: Black, Powder coating, Galvanized

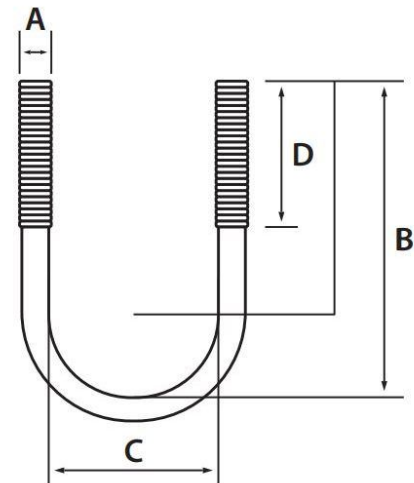
Approvals: Non

Size		A	B	C	D	S	t	W	L	Max Rec. Load	
in	mm	mm	mm	mm	mm	mm	mm	mm	mm	lbs	KN
1/2"	DN15	216.00	64.00	M10	24.00	10.00	5.00	25.00	35.00	220.00	0.98
3/4"	DN20	223.00	73.00	M10	29.00	10.00	5.00	25.00	35.00	220.00	0.98
1"	DN25	229.00	79.00	M10	36.00	10.00	5.00	25.00	38.00	220.00	0.98
1-1/4"	DN32	240.00	89.00	M10	44.00	10.00	5.00	25.00	35.00	250.00	1.12
1-1/2"	DN40	250.00	98.00	M10	52.00	10.00	5.00	25.00	35.00	250.00	1.12
2"	DN50	260.00	108.00	M12	62.00	10.00	5.00	30.00	35.00	300.00	1.34
2-1/2"	DN65	280.00	122.00	M12	77.00	12.00	5.00	30.00	45.00	400.00	1.78
3"	DN80	300.00	140.00	M12	92.00	12.00	5.00	30.00	45.00	500.00	2.23
4"	DN100	330.00	178.00	M12	114.00	12.00	6.00	40.00	60.00	750.00	3.24
5"	DN125	368.00	203.00	M12	141.00	12.00	6.00	40.00	60.00	1,500.00	6.68
6"	DN150	406.00	229.00	M12	168.00	12.00	6.00	40.00	60.00	1,600.00	7.12
8"	DN200	464.00	305.00	M16	220.00	19.00	8.00	50.00	70.00	2,500.00	11.20



GENERAL FIXINGS, U BOLTS
MODEL : UTT81

Thread Diameter (A)	B (mm)	C (mm)	D (MM)	Thread Diameter (A)	B (mm)	C (mm)	D (MM)
M6	32	14	13	M10	90	60	40
M6	32	14	16	M10	92	49	45
M6	36	18	16	M10	100	76	40
M6	37	18	14	M10	105	76	40
M6	40	22	18	M10	110	61	53
M6	40	23	16	M10	116	90	40
M6	48	21	30	M10	138	77	70
M6	53	27	30	M10	140	114	40
M6	55	28	27	M10	143	89	70
M6	60	34	30	M10	150	124	40
M6	65	35	30	M10	150	129	40
M8	42	23	16	M10	156	115	55
M8	45	27	25	M10	168	140	40
M8	50	21	30	M10	180	154	40
M8	52	27	25	M10	185	140	70
M8	53	27	25	M10	202	170	40
M8	53	27	30	M10	240	204	40
M8	58	28	25	M10	268	220	60
M8	60	34	25	M12	107	76	40
M8	64	34	30	M12	110	61	53
M8	68	35	32	M12	115	90	40
M8	68	43	25	M12	116	90	40
M8	70	42	40	M12	138	77	70
M8	70	48	28	M12	140	114	40
M8	70	49	28	M12	143	89	70
M8	80	55	35	M12	163	102	75
M8	81	43	41	M12	165	140	40
M8	82	61	28	M12	170	140	40
M8	90	49	46	M12	175	115	75
M8	90	60	40	M12	200	170	50
M8	98	77	28	M12	202	170	40
M8	100	71	40	M12	210	168	70
M8	106	65	35	M12	270	220	60
M8	110	61	53	M12	315	276	40
M8	110	75	40	M14	270	220	60
M8	110	89	28	M14	315	274	60
M8	119	85	40	M16	143	112	50
M8	144	105	40	M16	175	140	50
M10	52	21	30	M16	205	170	55
M10	55	27	30	M16	260	225	50
M10	64	34	32	M16	270	220	60
M10	70	42	40	M16	315	276	50
M10	70	45	40	M16	360	324	50
M10	71	35	34	M16	395	365	75
M10	75	51	40	M16	495	415	85
M10	80	50	40	M16	535	465	85
M10	81	43	41	M16	595	520	85
M10	85	60	40	M20	645	570	90
				M20	695	620	90


U Bolts

U bolts available in a range of sizes and finishes to support different loads, torque requirements and environments.

A U-bolt is an industrial fastener in the shape of the letter U with two threaded arms (or legs) extending from a curved base. U bolts are typically used to support pipework or to attach a part to a pole, beam or wall, where the “u” shape keeps it firmly in place, adding stability to the support.

The threaded ends are designed for use with washers and screws, and can also be used with a crosspiece spanning both threaded arms of the bolt, to make it more secure in certain settings and uses. U-bolts are designed to be inserted through holes that have already been drilled or punched.

Often used as framing fasteners and anchors for foundations and roofs, pipe and conduit holders and bolts for motor and engine shaft components.

U-bolt specifications include

1. Material Type (For example: zinc plated mild steel)
2. Thread dimensions (For example: M12 * 50 mm)
3. Inside diameter (For example: 50 mm – the distance between the legs)
4. Inside height (For example: 120 mm) Suitable for automotive, plumbing, construction and other home and industrial applications.

Material: **Zinmag®** **Pre-Galvanized Steel.** **Hot-Deep Galvanized Steel.**

C chanel Hole size: D12-L27. 50mm hole to hole

Square tube hole size: D12. 50mm hole to hole

C CHANEL SUPPORTS

Page 12-13

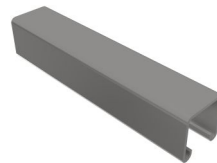
Zinmag® **Pre-Galvanized Steel.**



2121 C Chanel
UC2121-1



2121 C Chanel
UC2121-0



4141 C Chanel
UC4141-0



4141 C Chanel
UC4141-1

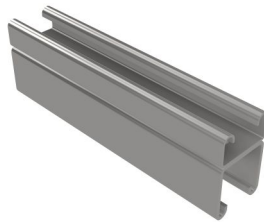
C CHANEL SUPPORTS

Page 14-16

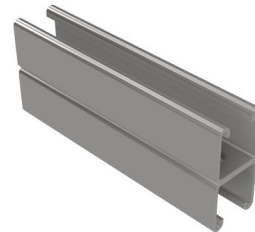
Zinmag® **Pre-Galvanized Steel.**



Double 2121 C Chanel
UCD2121-1



Double 4121 C Chanel
UCD4121-1



Double 4141 C Chanel
UCD4141-1

C CHANEL SUPPORTS

Page 14-16

Hot-Deep Galvanized Steel.



6241 C Chanel
UC6241-0



6241 C Chanel
UC6241-1



8241 C Chanel
UC8241-1

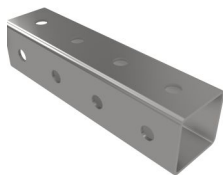


8241 C Chanel
UC8241-0

PERFORATED SQUARE TUBE

Page 17-19

Hot-Deep Galvanized Steel.



5050 Square Tube
USQ50-1



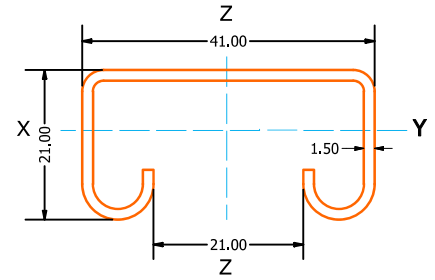
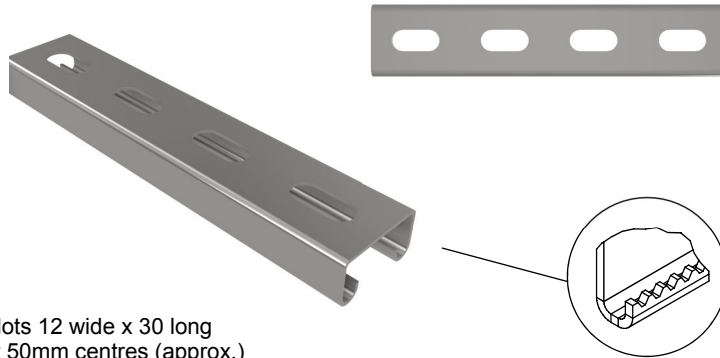
Double Square Tube
USQ50x2-1



Four Square Tube Combined
USQ50x4-1

PERFORATED C CHANEL

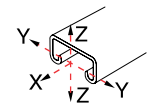
MODEL: UC2121-1



Slots 12 wide x 30 long at 50mm centres (approx.)

Mass: 1.095kg/m

L(mm)	F		f=1/200L	f=1/360L	F _{max}
	F _{max} (kN)	f _{max} (mm)			
250	3.976	0.51	-	-	-
500	1.988	2.02	-	1.364	-
750	1.325	4.55	1.092	0.606	-
1000	0.994	8.09	0.614	0.341	-
1250	0.795	12.65	0.393	0.218	-
1500	0.663	18.21	0.273	-	-
1750	0.568	24.79	-	-	-
2000	0.497	32.38	-	-	-



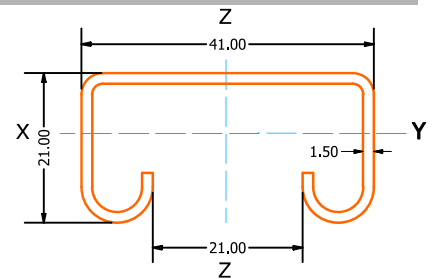
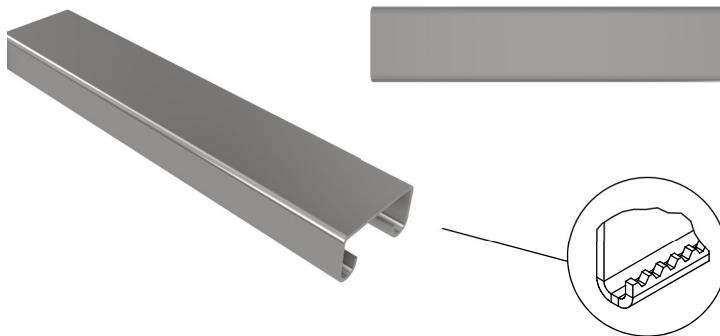
- A = 1.34 cm²
- m/m = 1.16 kg/m
- I_{y-y} = 0.78 cm⁴
- Z_{y-y} = 0.71 cm³
- r_{y-y} = 0.76 cm
- I_{z-z} = 3.66 cm⁴
- Z_{z-z} = 1.77 cm³
- r_{z-z} = 1.65 cm

Part No.	Length M		PO	Finish	
	3	6		PG	HG
P2000T	•	•	•	•	•
P4000T10	•	•		•	

Zinmag® GAL.

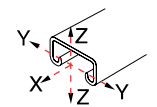
NON-PERFORATED C CHANEL

MODEL: UC2121-0



Mass: 1.165kg/m

L(mm)	F		f=1/200L	f=1/360L	F _{max}
	F _{max} (kN)	f _{max} (mm)			
250	3.976	0.51	-	-	-
500	1.988	2.02	-	1.364	-
750	1.325	4.55	1.092	0.606	-
1000	0.994	8.09	0.614	0.341	-
1250	0.795	12.65	0.393	0.218	-
1500	0.663	18.21	0.273	-	-
1750	0.568	24.79	-	-	-
2000	0.497	32.38	-	-	-



- A = 1.34 cm²
- m/m = 1.16 kg/m
- I_{y-y} = 0.78 cm⁴
- Z_{y-y} = 0.71 cm³
- r_{y-y} = 0.76 cm
- I_{z-z} = 3.66 cm⁴
- Z_{z-z} = 1.77 cm³
- r_{z-z} = 1.65 cm

Part No.	Length M		PO	Finish	
	3	6		PG	HG
P2000T	•	•	•	•	•
P4000T10	•	•		•	

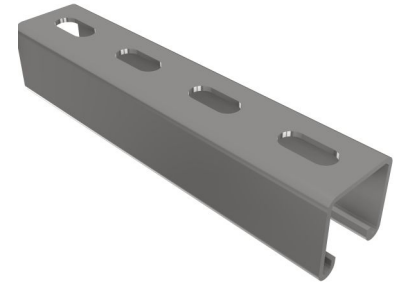
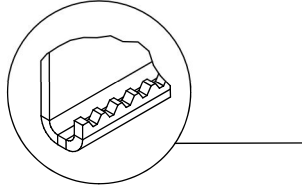
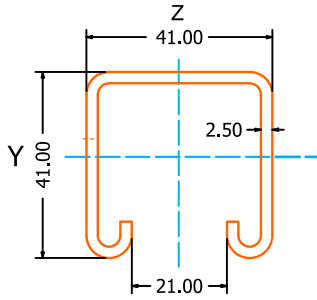
Zinmag® GAL.

41x21 C CHANNEL

P4000/4000T [4121]

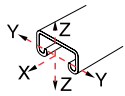
PERFORATED C CHANNEL

MODEL: SC4141-1



Slots 12 wide x 30 long at 50mm centres (approx.)

Mass: 2.52 kg/m



- A = 1.92 cm²
- $\frac{A}{m}$ = 1.72 kg/m
- I y-y = 4.24 cm⁴
- Z y-y = 2.04 cm³
- r y-y = 1.48 cm
- I z-z = 6.10 cm⁴
- Z z-z = 2.95 cm³
- r z-z = 1.78 cm

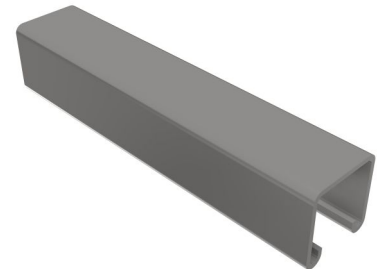
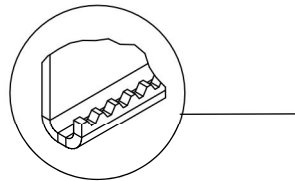
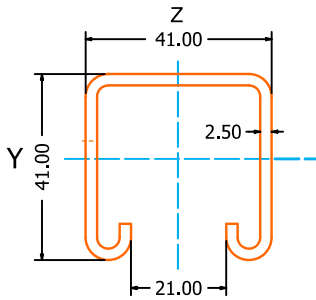
Zinmag® GAL.

L(mm)	F		f=1/200L	f=1/360L	F ₆₀₀
	F _{max} (kN)	f _{max} (mm)			
250	11.42	0.26	-	-	11.35
500	5.71	1.06	-	-	10.87
750	3.81	2.40	-	3.30	10.65
1000	2.85	4.27	*	1.85	9.30
1250	2.28	6.68	2.13	1.18	7.79
1500	1.90	9.62	1.48	0.82	6.54
1750	1.63	13.10	1.09	0.60	5.55
2000	1.42	17.11	0.83	0.46	4.78
2250	1.27	21.65	0.66	0.36	4.17
2500	1.14	26.73	0.53	0.29	3.69
2750	1.03	32.35	0.43	0.24	3.30*
3000	0.95	38.50	0.36	0.21	3.05*

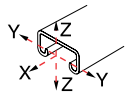
* K. L/r = >180 < 250

NON-PERFORATED C CHANNEL

MODEL: UC4141-0



Mass: 2.63 kg/m



- A = 1.92 cm²
- $\frac{A}{m}$ = 1.72 kg/m
- I y-y = 4.24 cm⁴
- Z y-y = 2.04 cm³
- r y-y = 1.48 cm
- I z-z = 6.10 cm⁴
- Z z-z = 2.95 cm³
- r z-z = 1.78 cm

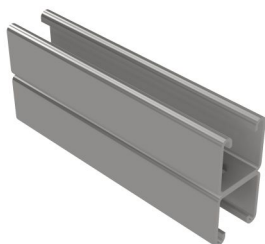
Zinmag® GAL.

L(mm)	F		f=1/200L	f=1/360L	F ₆₀₀
	F _{max} (kN)	f _{max} (mm)			
250	11.42	0.26	-	-	11.35
500	5.71	1.06	-	-	10.87
750	3.81	2.40	-	3.30	10.65
1000	2.85	4.27	*	1.85	9.30
1250	2.28	6.68	2.13	1.18	7.79
1500	1.90	9.62	1.48	0.82	6.54
1750	1.63	13.10	1.09	0.60	5.55
2000	1.42	17.11	0.83	0.46	4.78
2250	1.27	21.65	0.66	0.36	4.17
2500	1.14	26.73	0.53	0.29	3.69
2750	1.03	32.35	0.43	0.24	3.30*
3000	0.95	38.50	0.36	0.21	3.05*

* K. L/r = >180 < 250

COMBINATION PERFORATED C CHANNEL

MODEL: UCD4141-1

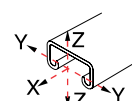
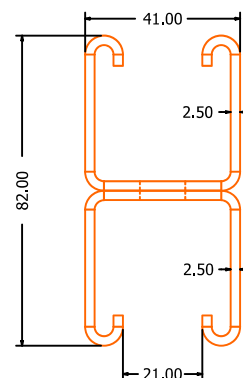


Slots 12 wide x 30 long at 50mm centres (approx.)

Mass: 5.04 kg/m

L(mm)	F		f=1/200L	f=1/360L	F _{0.01}
	F _{max} (kN)	f _{max} (mm)			
250	-	-	-	-	28.253
500	-	-	-	-	28.096
750	16.383	1.21	-	-	27.792
1000	12.292	2.15	-	-	27.301
1250	9.830	3.36	-	-	26.438
1500	8.191	4.84	-	7.044	25.025
1750	7.024	6.59	-	5.170	23.220
2000	6.141	8.61	-	3.963	21.288
2250	5.454	10.89	-	3.129	19.394
2500	4.915	13.45	4.562	2.531	17.619
2750	4.464	16.27	3.767	2.090	15.990
3000	4.091	19.37	3.169	1.756	14.519*

Part No.	Length M		Finish				Slot Size (T)
	3	6	PO	PG	HG	SS	
P1001	•	•	•	•	•	•	D12*L30
P1001T	•	•	•	•	•	•	•

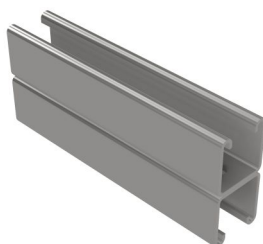


- A = 6.70 cm²
- W/m = 5.77 kg/m
- I y-y = 36.27 cm⁴
- Z y-y = 8.78 cm³
- r y-y = 2.32 cm
- I z-z = 18.46 cm⁴
- Z z-z = 8.94 cm³
- r z-z = 1.66 cm

Zinmag® GAL.

COMBINATION NON-PERFORATED C CHANNEL

MODEL: UCD4141-0

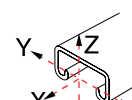
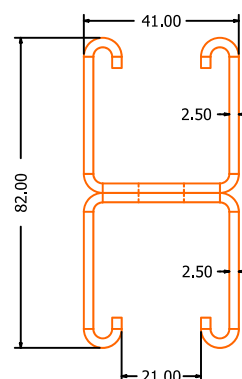


Slots 12 wide x 30 long at 50mm centres (approx.)

Mass: 5.26 kg/m

L(mm)	F		f=1/200L	f=1/360L	F _{0.01}
	F _{max} (kN)	f _{max} (mm)			
250	-	-	-	-	28.253
500	-	-	-	-	28.096
750	16.383	1.21	-	-	27.792
1000	12.292	2.15	-	-	27.301
1250	9.830	3.36	-	-	26.438
1500	8.191	4.84	-	7.044	25.025
1750	7.024	6.59	-	5.170	23.220
2000	6.141	8.61	-	3.963	21.288
2250	5.454	10.89	-	3.129	19.394
2500	4.915	13.45	4.562	2.531	17.619
2750	4.464	16.27	3.767	2.090	15.990
3000	4.091	19.37	3.169	1.756	14.519*

Part No.	Length M		Finish				Slot Size (T)
	3	6	PO	PG	HG	SS	
P1001	•	•	•	•	•	•	D12*L30
P1001T	•	•	•	•	•	•	•



- A = 6.70 cm²
- W/m = 5.77 kg/m
- I y-y = 36.27 cm⁴
- Z y-y = 8.78 cm³
- r y-y = 2.32 cm
- I z-z = 18.46 cm⁴
- Z z-z = 8.94 cm³
- r z-z = 1.66 cm

Zinmag® GAL.

41x41 x 2 C CHANNEL

P10011001T [4141]

COMBINATION PERFORATED C CHANNEL

MODEL: UCD2121-1

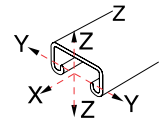
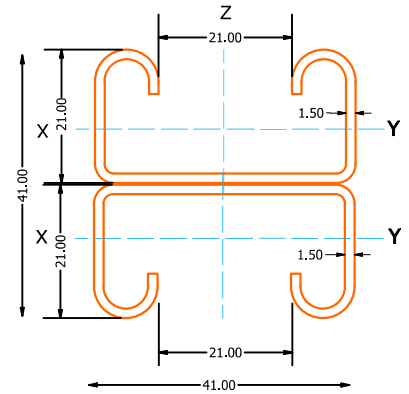


Slots 12 wide x 30 long
at 50mm centres (approx.)

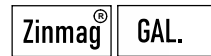
Mass: 2.19 kg/m

L(mm)	F		f=1/200L	f=1/380L	F _{IND}
	F _{max} (kN)	f _{max} (mm)			
250	16.632	0.26	-	-	17.266
500	8.316	1.03	-	-	17.030
750	5.544	2.31	-	4.991	16.599
1000	4.158	4.11	-	2.808	15.667
1250	3.326	6.43	3.234	1.797	14.156
1500	2.772	9.26	2.246	1.248	12.478
1750	2.376	12.60	1.650	0.917	10.899
2000	2.079	16.45	1.263	0.702	9.496
2250	1.848	20.83	0.998	0.555	8.289*
2500	1.663	25.71	0.809	0.449	7.250*
2750	1.512	31.11	0.668	0.371	6.377*
3000	1.386	37.02	0.562	0.312	-

Part No.	Length M		Finish			
P4001T	3	6	PO	PG	HG	SS

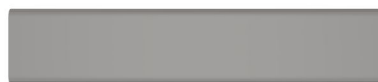
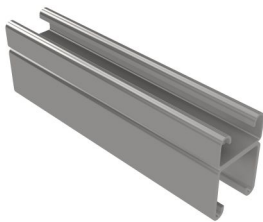


- A = 4.09 cm²
- m/m = 3.53 kg/m
- I y-y = 6.42 cm⁴
- Z y-y = 2.97 cm³
- r y-y = 1.25 cm
- I z-z = 10.64 cm⁴
- Z z-z = 5.14 cm³
- r z-z = 1.61 cm



COMBINATION NON-PERFORATED C CHANNEL

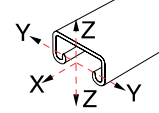
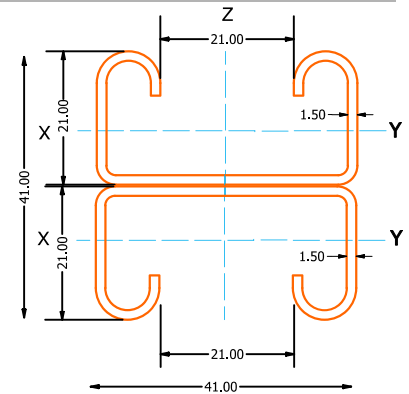
MODEL: UCD2121-0



Mass: 2.33 kg/m

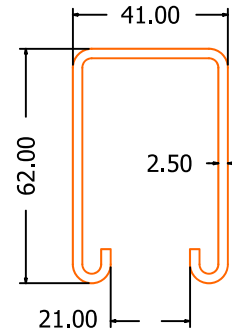
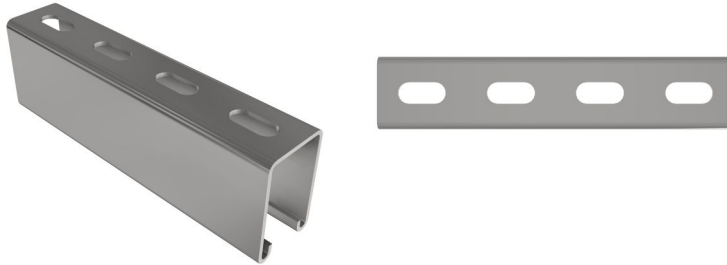
L(mm)	F		f=1/200L	f=1/380L	F _{IND}
	F _{max} (kN)	f _{max} (mm)			
250	16.632	0.26	-	-	17.266
500	8.316	1.03	-	-	17.030
750	5.544	2.31	-	4.991	16.599
1000	4.158	4.11	-	2.808	15.667
1250	3.326	6.43	3.234	1.797	14.156
1500	2.772	9.26	2.246	1.248	12.478
1750	2.376	12.60	1.650	0.917	10.899
2000	2.079	16.45	1.263	0.702	9.496
2250	1.848	20.83	0.998	0.555	8.289*
2500	1.663	25.71	0.809	0.449	7.250*
2750	1.512	31.11	0.668	0.371	6.377*
3000	1.386	37.02	0.562	0.312	-

Part No.	Length M		Finish			
P3301T10	3	6	PO	PG	HG	SS



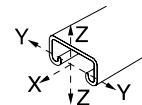
- A = 4.09 cm²
- m/m = 3.53 kg/m
- I y-y = 6.42 cm⁴
- Z y-y = 2.97 cm³
- r y-y = 1.25 cm
- I z-z = 10.64 cm⁴
- Z z-z = 5.14 cm³
- r z-z = 1.61 cm



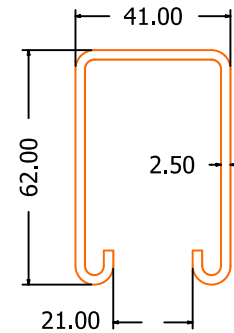
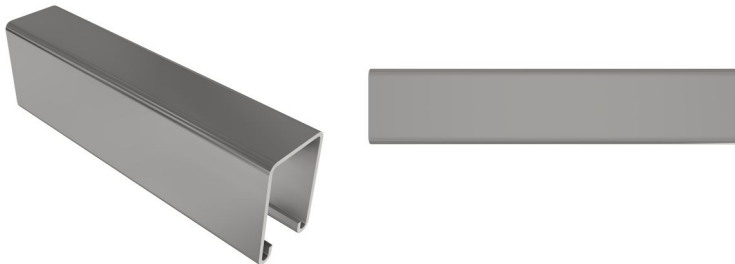
PERFORATED 62X41 C CHANEL
MODEL: UC6241-1

 Slots 12 wide x 30 long
at 50mm centres (approx.)

Mass: 3.36 kg/m

L(mm)	F		f=1/200L	f=1/360L	F _{max}
	F _{max} (kN)	f _{max} (mm)			
250	-	-	-	-	20.277
500	-	-	-	-	20.081
750	9.928	1.50	-	-	18.443
1000	7.446	2.67	-	-	15.245
1250	5.955	4.18	-	4.944	12.557
1500	4.964	6.02	-	3.434	10.507
1750	4.248	8.19	-	2.521	8.966
2000	3.718	10.70	3.473	1.923	7.789
2250	3.306	13.55	2.747	1.521	6.867
2500	2.972	16.73	2.217	1.236	6.141
2750	2.708	20.24	1.834	1.020	5.543
3000	2.482	24.09	1.540	0.853	5.042

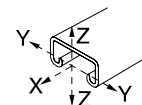


A = 4.03 cm²
 ρ/m = 3.60 kg/m
 I_{y-y} = 17.57 cm⁴
 Z_{y-y} = 5.59 cm³
 r_{y-y} = 2.09 cm
 I_{z-z} = 13.07 cm⁴
 Z_{z-z} = 6.33 cm³
 r_{z-z} = 1.79 cm

Zinmag® GAL.
NON-PERFORATED 61X41 C CHANEL
MODEL: UC6241-0


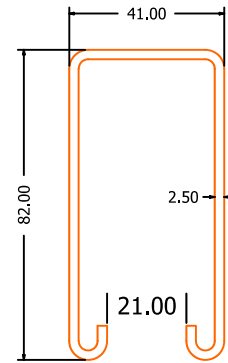
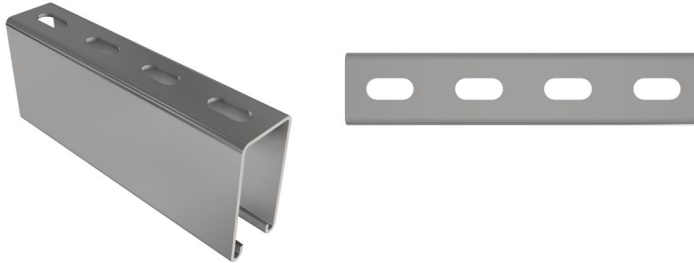
Mass: 3.50 kg/m

L(mm)	F		f=1/200L	f=1/360L	F _{max}
	F _{max} (kN)	f _{max} (mm)			
250	-	-	-	-	20.277
500	-	-	-	-	20.081
750	9.928	1.50	-	-	18.443
1000	7.446	2.67	-	-	15.245
1250	5.955	4.18	-	4.944	12.557
1500	4.964	6.02	-	3.434	10.507
1750	4.248	8.19	-	2.521	8.966
2000	3.718	10.70	3.473	1.923	7.789
2250	3.306	13.55	2.747	1.521	6.867
2500	2.972	16.73	2.217	1.236	6.141
2750	2.708	20.24	1.834	1.020	5.543
3000	2.482	24.09	1.540	0.853	5.042



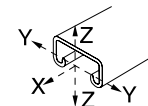
A = 4.03 cm²
 ρ/m = 3.60 kg/m
 I_{y-y} = 17.57 cm⁴
 Z_{y-y} = 5.59 cm³
 r_{y-y} = 2.09 cm
 I_{z-z} = 13.07 cm⁴
 Z_{z-z} = 6.33 cm³
 r_{z-z} = 1.79 cm

Zinmag® GAL.
62 x 41 C CHANEL
P5500/5500T [6220]

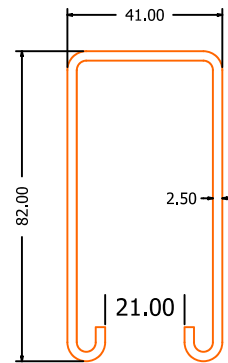
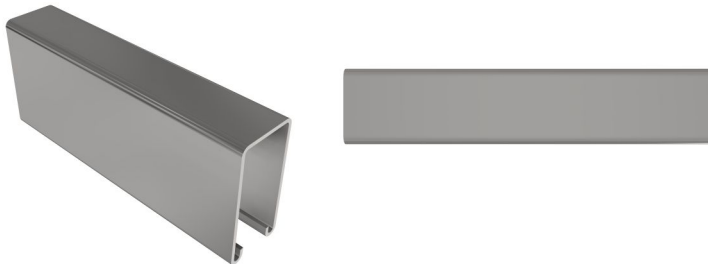

 Slots 12 wide x 30 long
 at 50mm centres (approx.)

Mass: 4.17 kg/m

L(mm)	F				F _{max}
	F _{max} (kN)	f _{max} (mm)	F (kN)	F (kN)	
250	-	-	-	-	19.620
500	-	-	-	-	19.355
750	12.596	0.89	-	-	16.422
1000	9.447	1.59	-	-	12.822
1250	7.554	2.48	-	-	10.124
1500	6.298	3.58	-	-	8.182
1750	5.396	4.86	-	-	6.769
2000	4.719	6.36	-	4.120	5.719
2250	4.199	8.05	-	3.257	4.934
2500	3.777	9.93	-	2.639	4.326
2750	3.434	12.02	-	2.178	3.846
3000	3.149	14.31	-	1.834	3.453

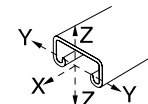


$A = 5.06 \text{ cm}^2$
 $\rho/m = 4.05 \text{ kg/m}$
 $I_{y-y} = 37.76 \text{ cm}^4$
 $Z_{y-y} = 9.01 \text{ cm}^3$
 $r_{y-y} = 2.72 \text{ cm}$
 $I_{z-z} = 16.95 \text{ cm}^4$
 $Z_{z-z} = 8.21 \text{ cm}^3$
 $r_{z-z} = 1.82 \text{ cm}$

Zinmag® GAL.


Mass: 4.30 kg/m

L(mm)	F				F _{max}
	F _{max} (kN)	f _{max} (mm)	F (kN)	F (kN)	
250	-	-	-	-	19.620
500	-	-	-	-	19.355
750	12.596	0.89	-	-	16.422
1000	9.447	1.59	-	-	12.822
1250	7.554	2.48	-	-	10.124
1500	6.298	3.58	-	-	8.182
1750	5.396	4.86	-	-	6.769
2000	4.719	6.36	-	4.120	5.719
2250	4.199	8.05	-	3.257	4.934
2500	3.777	9.93	-	2.639	4.326
2750	3.434	12.02	-	2.178	3.846
3000	3.149	14.31	-	1.834	3.453



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

Zinmag® GAL.

PIPE AND CONDUIT CLAMPS

MODEL: UTT 80

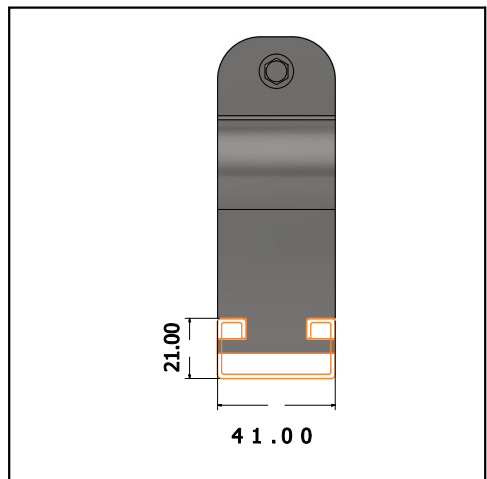
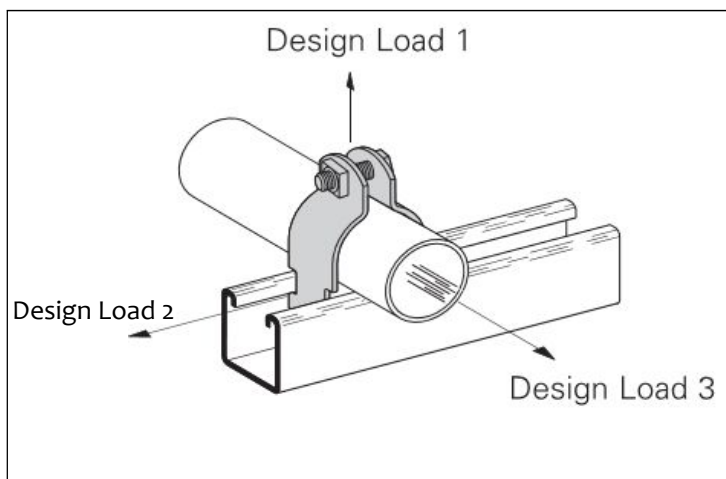
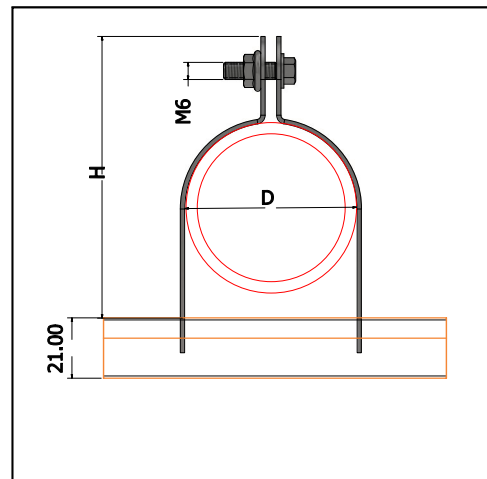
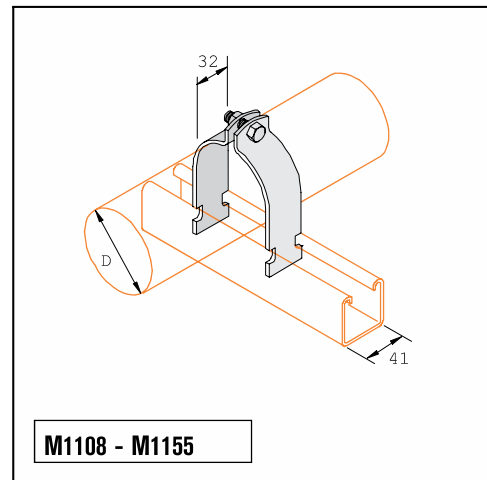
Pipe and Conduit Clamps

- Safety Factor of 5
- Add PA to suffix for pre-assembled pipe clamps
- Includes Combination Recess Hex Head Machine Screw and Square Nut
- Material: 16 Ga. (1.5), 14 Ga. (1.9), 12 Ga. (2.6) ASTM A1011 33,000 PSI min. yield and 11 Ga. (3.0) ASTM A1011 HSLA Gr. 50
- Standard finishes: ZN, HDG, SS4, SS6, AL

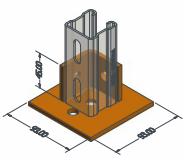
Note: For EMT sizes 2 1/2" and larger use rigid conduit sizes.

Thinwall Conduit Clamps										
Conduit Size		Material Thickness	Design Load 1		Design Load 2		Design Load 3		Wt. 100	
in	mm	mm	lbf	kN	lbf	kN	lbf	kN	lbs	kg
3/8"	DN10	1.50	400	1.78	50	0.22	50	0.22	10	4.50
1/2"	DN15	1.50	400	1.78	50	0.22	50	0.22	10	4.50
3/4"	DN20	1.90	400	1.78	50	0.22	75	0.22	11	5.00
1"	DN25	2.00	600	2.67	75	0.33	75	0.33	16	7.20
1-1/4"	DN32	2.00	600	2.67	75	0.33	75	0.33	19	8.60
1-1/2"	DN40	2.50	800	3.56	125	0.56	125	0.56	28	12.70
2.00	DN50	2.50	800	3.56	125	0.56	125	0.56	33	14.90

Rigid or Conduit or Pipe Clamps										
Conduit Size		Material Thickness	Design Load 1		Design Load 2		Design Load 3		Wt. 100	
in	mm	mm	lbf	kN	lbf	kN	lbf	kN	lbs	kg
3/8"	DN10	1.50	400	1.78	50	0.22	50	0.22	10	4.50
1/2"	DN15	1.50	400	1.78	50	0.22	50	0.22	11	5.00
3/4"	DN20	2.00	600	2.67	75	0.33	75	0.33	15	6.80
1"	DN25	2.00	600	2.67	75	0.33	75	0.33	16	7.20
1-1/4"	DN32	2.00	800	2.67	75	0.33	75	0.33	20	9.10
1-1/2"	DN40	2.50	800	3.56	125	0.56	125	0.56	30	13.60
2.00	DN50	2.50	800	3.56	125	0.56	125	0.56	34	15.40
2-1/2"	DN65	2.50	800	3.56	125	0.56	125	0.56	38	17.20
3"	DN80	2.50	1,000	3.56	125	0.56	125	0.56	44	19.90
3-1/2"	DN90	3.00	1,000	4.45	200	0.89	150	0.67	61	27.60
4.00	DN100	3.00	1,000	4.45	200	0.89	150	0.67	66	29.90
4-1/2"	DN115	3.00	1,000	4.45	200	0.89	150	0.67	70	31.70
5"	DN125	3.00	1,000	4.45	200	0.89	150	0.67	77	34.90
6"	DN150	3.03	1,000	4.45	200	1.11	150	0.67	100	45.30
7"	DN175	3.00	1,000	4.45	250	1.11	200	0.89	115	52.10
8"	DN200	3.00	1,000	4.45	250	1.11	200	0.89	128	58.00
10"	DN250	3.00	1,000	4.45	250	1.11	200	0.89	160	72.60
12"	DN300	3.00	1,000	4.45	250	1.11	200	0.89	185	83.90

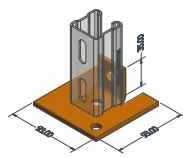


PIPE SUPPORTS
LIGHT DUTY DUTY

Base and Wing fittings


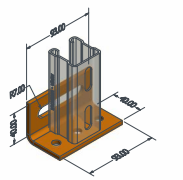
P2072-S1 Zinmag® Pre-Galvanized Steel.

Part No.	Finish		Weight	Quantity
	ZAM	GAL.		
P2072-S1	•	•	0.48	10



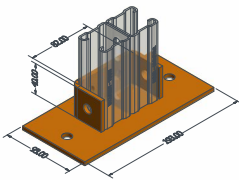
P2072-S2 Zinmag® Pre-Galvanized Steel.

Part No.	Finish		Weight	Quantity
	ZAM	GAL.		
P2072-S2	•	•	0.33	10



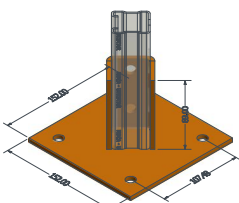
P2072-S3 Zinmag® Pre-Galvanized Steel.

Part No.	Finish		Weight	Quantity
	ZAM	GAL.		
P2072-S3	•	•	0.30	10



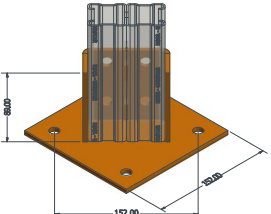
P2073 Zinmag® Pre-Galvanized Steel.

Part No.	Finish		Weight	Quantity
	ZAM	GAL.		
P2073	•	•	0.98	10



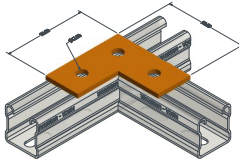
P2072A Zinmag® Pre-Galvanized Steel.

Part No.	Finish		Weight	Quantity
	ZAM	GAL.		
P2072A	•	•	1.70	10



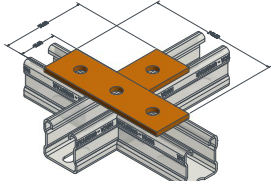
P2073A Zinmag® Pre-Galvanized Steel.

Part No.	Finish		Weight	Quantity
	ZAM	GAL.		
P2073A	•	•	1.80	10



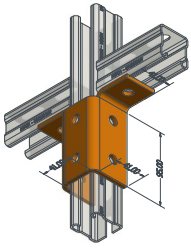
P1036 Zinmag® Pre-Galvanized Steel.

Part No.	Finish		Weight	Quantity
	ZAM	GAL.		
P2348-S1	•	•	1.95	1



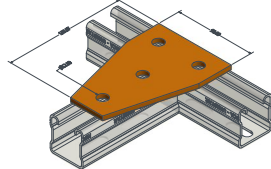
P1031 Zinmag® Pre-Galvanized Steel.

Part No.	Finish		Weight	Quantity
	ZAM	GAL.		
P2348-S2	•	•	2.15	1



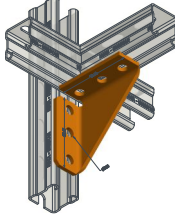
P2346 Zinmag® Pre-Galvanized Steel.

Part No.	Finish		Weight	Quantity
	ZAM	GAL.		
P2346	•	•	0.68	10



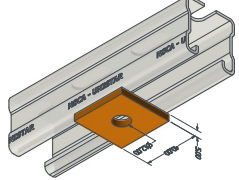
P1358 Zinmag® Pre-Galvanized Steel.

Part No.	Finish		Weight	Quantity
	ZAM	GAL.		
P2341R	•	•	0.21	25



P2484 Zinmag® Pre-Galvanized Steel.

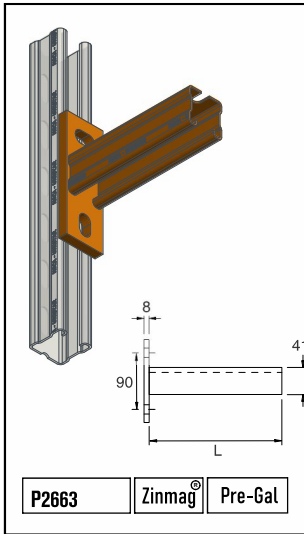
Part No.	Finish		Weight	Quantity
	ZAM	GAL.		
P2341L	•	•	0.21	25



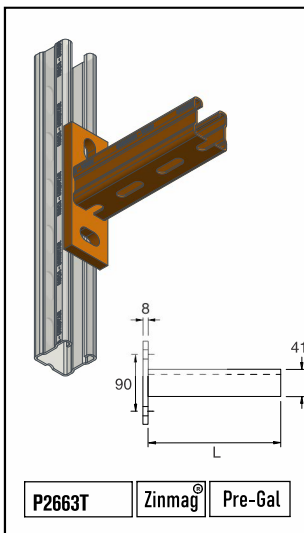
P1063/06-12 Zinmag® Pre-Galvanized Steel.

Part No.	Finish		Weight	Quantity
	ZAM	GAL.		
P2223	•	•	0.35	25

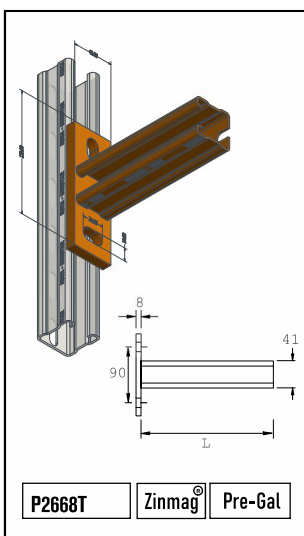
Cantilever arms



Part No.	Finish		L (mm)	Loadings				
	ZAM	/GAL		$1/2 L$	L	$1/3L$	$1/4L$	
P2663/150	•	•	0.77	150	6.20 kN	3.10 kN	3.10 kN	2.06 kN
P2663/300	•	•	1.20	300	3.20 kN	1.60 kN	1.60 kN	1.06 kN
P2663/450	•	•	1.63	450	2.15 kN	1.07 kN	1.07 kN	0.71 kN
P2663/600	•	•	2.07	600	1.62 kN	0.81 kN	0.81 kN	0.54 kN
P2663/750	•	•	2.50	750	1.30 kN	0.65 kN	0.65 kN	0.43 kN

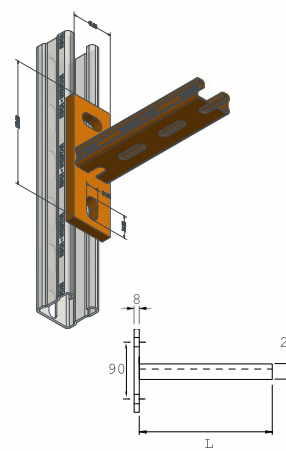


Part No.	Finish			L (mm)	Loadings				
	ZAM	/GAL	ZP		$1/2 L$	L	$1/3L$	$1/4L$	
P2663T/150	•	•	•	0.75	150	6.12 kN	3.06 kN	3.06 kN	2.04 kN
P2663T/300	•	•	•	1.16	300	3.06 kN	1.53 kN	1.53 kN	1.02 kN
P2663T/450	•	•	•	1.57	450	2.04 kN	1.02 kN	1.02 kN	0.68 kN
P2663T/600	•	•	•	1.98	600	1.53 kN	0.76 kN	0.76 kN	0.50 kN
P2663T/750	•	•	•	2.39	750	1.22 kN	0.61 kN	0.61 kN	0.40 kN



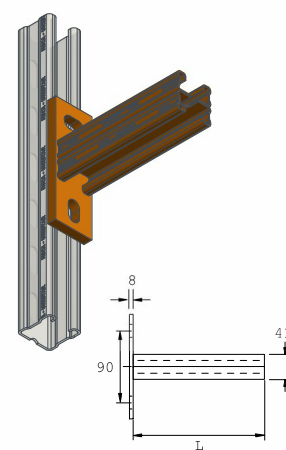
Part No.	Finish		L (mm)	Loadings				
	ZAM	/GAL		$1/2 L$	L	$1/3L$	$1/4L$	
P2668T/150	•	•	0.75	150	6.20 kN	3.10 kN	3.10 kN	2.06 kN
P2668T/300	•	•	1.16	300	3.20 kN	1.60 kN	1.60 kN	1.06 kN
P2668T/450	•	•	1.57	450	2.15 kN	1.07 kN	1.07 kN	0.71 kN
P2668T/600	•	•	1.98	600	1.62 kN	0.81 kN	0.81 kN	0.54 kN

Loadings indicated are only applicable when 2 fixings per cantilever arms are used.
Stated loadings apply to mild steel products only.

Cantilever arms


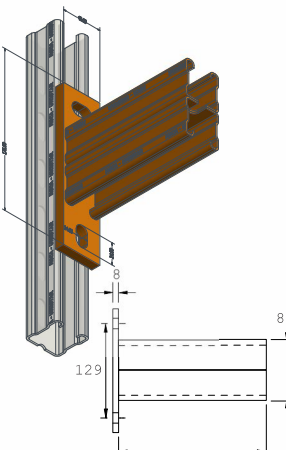
P2633T **Zinmag®** **Pre-Gal**

Part No.	Finish		L (mm)	Loadings			
	ZAM	GAL		$\frac{1}{2} L$	F_1	$\frac{1}{3} L$	$\frac{1}{4} L$
P2633T/150	•	•	0.60	150	1.94 kN	0.97 kN	0.64 kN
P2633T/300	•	•	0.87	300	1.00 kN	0.50 kN	0.33 kN
P2633T/450	•	•	1.13	450	0.67 kN	0.33 kN	0.22 kN



P2631T **Zinmag®** **Pre-Gal**

Part No.	Finish		L (mm)	Loadings			
	ZAM	GAL		$\frac{1}{2} L$	F_1	$\frac{1}{3} L$	$\frac{1}{4} L$
P2631T/150	•	•	0.87	150	5.95 kN	2.97 kN	1.98 kN
P2631T/300	•	•	1.40	300	3.07 kN	1.53 kN	1.02 kN
P2631T/450	•	•	1.93	450	2.06 kN	1.03 kN	0.68 kN
P2631T/600	•	•	2.46	600	1.56 kN	0.78 kN	0.52 kN
P2631T/750	•	•	2.99	750	1.25 kN	0.62 kN	0.41 kN

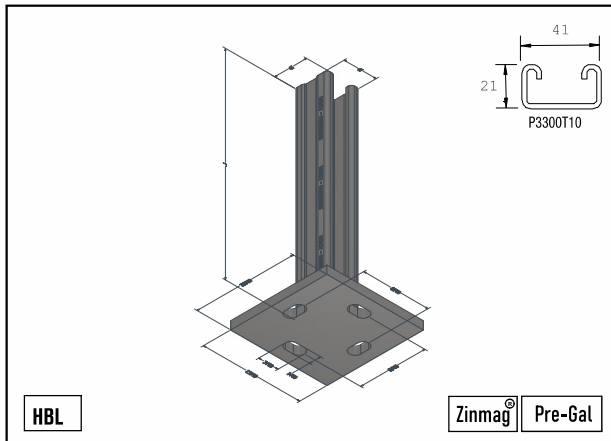


P2665T **Zinmag®** **Pre-Gal**

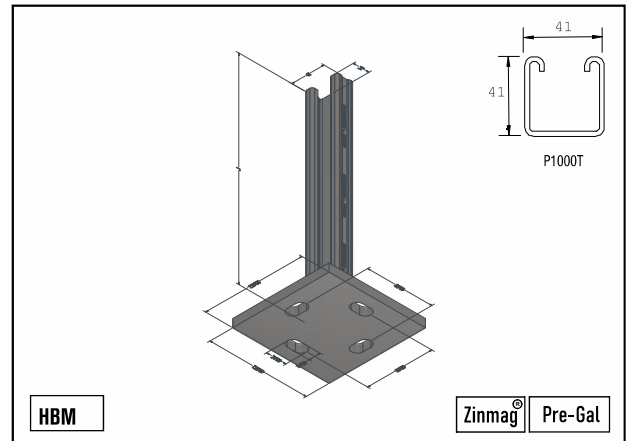
Part No.	Finish		L (mm)	Loadings			
	ZAM	GAL		$\frac{1}{2} L$	F_1	$\frac{1}{3} L$	$\frac{1}{4} L$
P2665T/150	•	•	1.44	150	8.82 kN	4.41 kN	2.94 kN
P2665T/300	•	•	2.21	300	6.47 kN	3.23 kN	2.15 kN
P2665T/450	•	•	3.09	450	4.31 kN	2.15 kN	1.43 kN
P2665T/600	•	•	3.72	600	3.23 kN	1.61 kN	1.07 kN
P2665T/750	•	•	4.73	750	2.58 kN	1.29 kN	0.86 kN

Loadings indicated are only applicable when 2 fixings per cantilever arms are used.
Stated loadings apply to mild steel products only.

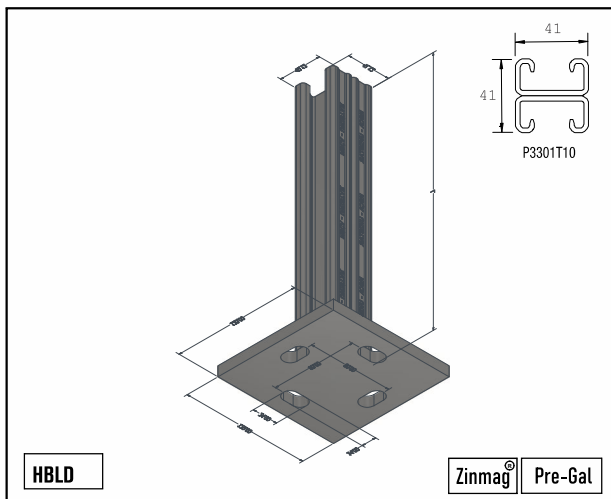
Vertical support with single and double channel



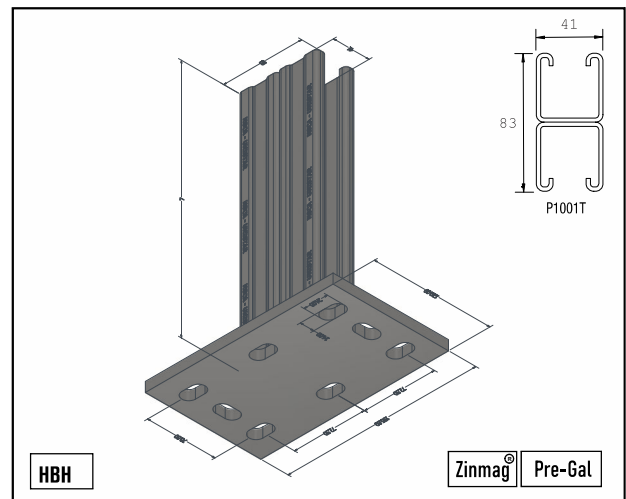
Part No.	Finish		L (mm)	⚖️
	ZAM	GAL		
HBL/500	•		525	2.00
HBL/750	•		775	2.44
HBL/1000	•		1025	2.88
HBL/1250	•		1275	3.32




Part No.	Finish		L (mm)	⚖️
	ZAM	GAL		
HBM/500	•		525	2.51
HBM/750	•		775	3.19
HBM/1000	•		1025	3.88
HBM/1250	•		1275	4.30



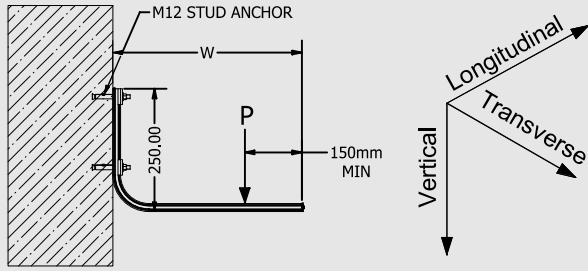
Part No.	Finish		L (mm)	⚖️
	ZAM	GAL		
HBLD/500	•		525	2.93
HBLD/750	•		775	3.81
HBLD/1000	•		1025	4.70
HBLD/1250	•		1275	5.58
HBLD/1500	•		1525	6.46
HBLD/2000	•		2025	8.23




Part No.	Finish		L (mm)	⚖️
	ZAM	GAL		
HBH/500	•		525	4.60
HBH/750	•		775	5.97
HBH/1000	•		1025	7.33
HBH/1250	•		1275	8.70
HBH/1500	•		1525	10.07
HBH/2000	•		2025	12.80

LIGHT DUTY C CHANNEL BRACKET


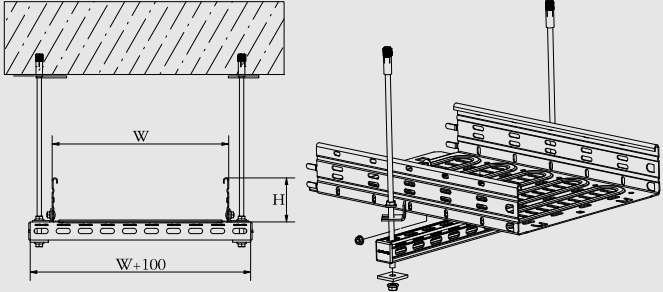
ALLOWABLE LOADS, kg	Dimension and Load		
	W, mm	300	450
Vertical (P)	45.5	30.0	




Light Duty - UC4121-1



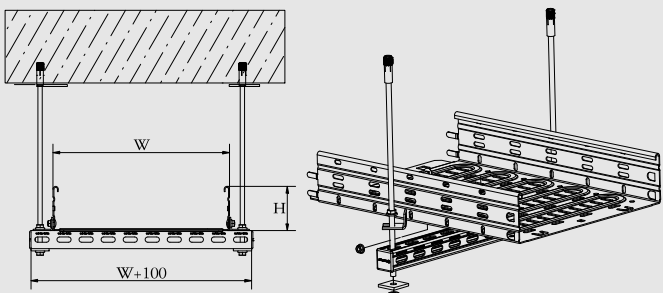
ALLOWABLE LOADS, kg	Dimension and Load			
	Hmax, mm	1200	1200	1200
	W, mm	600	1200	1800
	Vertical (P)	231.5	197.7	95.5



Light Duty - UC4141-1

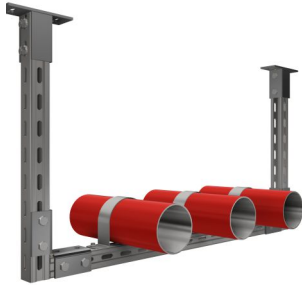


ALLOWABLE LOADS, kg	Dimension and Load			
	Hmax, mm	1200	1200	1200
	W, mm	600	1200	1800
	Vertical (P)	231.5	197.7	95.5



Light Duty – UC4141-1

MEDIUM DUTY C CHANEL TREPEZE BRACKET

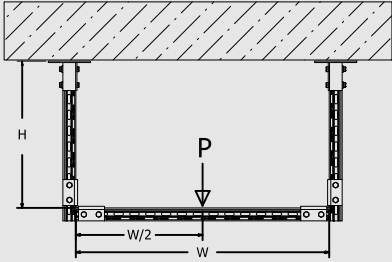


ALLOWABLE LOADS, kg	Dimension and Load			
	Hmax, mm	1200	1200	1200
	W, mm	600	1200	1800
	Vertical (P)	370.5	190.9	88.6


Vertical ↓

Longitudinal ↗

Transverse ↘



Medium Duty - UC4141-1

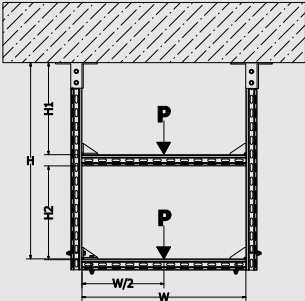


ALLOWABLE LOADS, kg	Dimension and Load			
	Max H (mm)	600	900	1200
	Max W(mm)	600	900	1200
	Vertical (P)	636	386	215
	Transverse	190	115	65.5
	Longitudinal	190	115	65.5

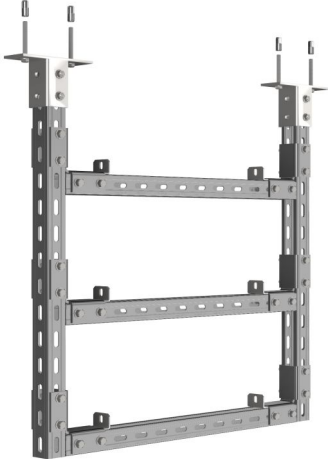
Vertical ↓

Longitudinal ↗

Transverse ↘



Medium Duty - UC4141-1

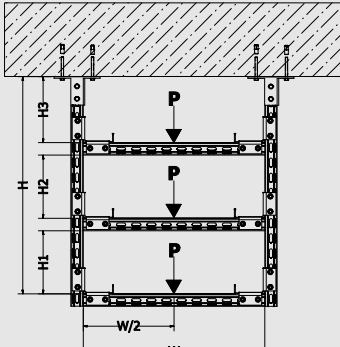


ALLOWABLE LOADS, kg	Dimension and Load	
	Max H (mm)	900 1200
	Max W(mm)	900 1200
	Vertical (P)	295 170
	Transverse	88.6 50.9
	Longitudinal	88.6 50.9

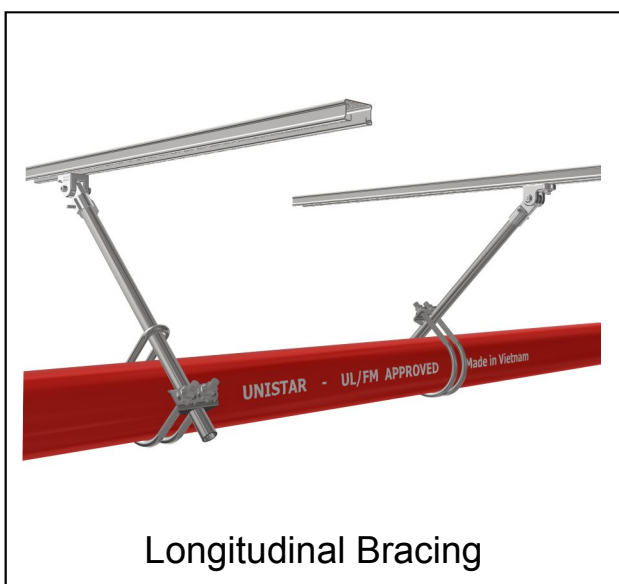
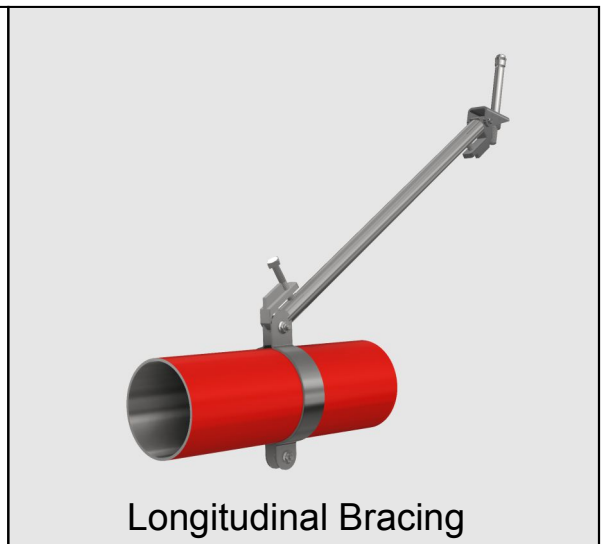
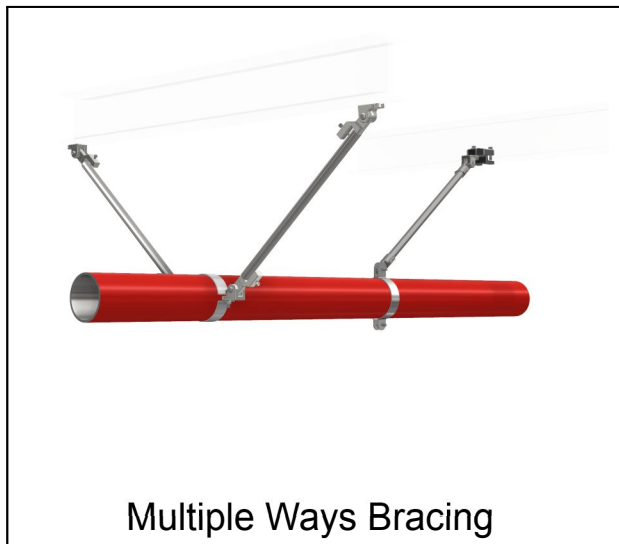
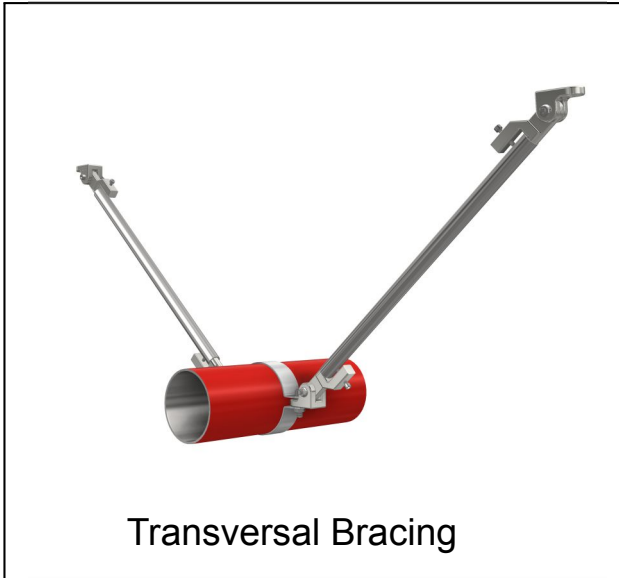
Vertical ↓

Longitudinal ↗

Transverse ↘

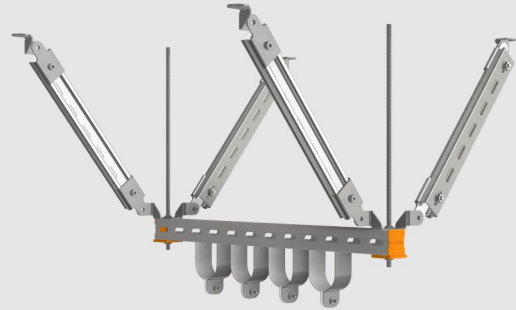


Medium Duty - UC4141-1

SEISMIC BRACING WITH 1" PIPE AND CLAMP
1" PIPE SWAY BRACE
Cantilever arms


SEISMIC BRACING WITH C CHANEL

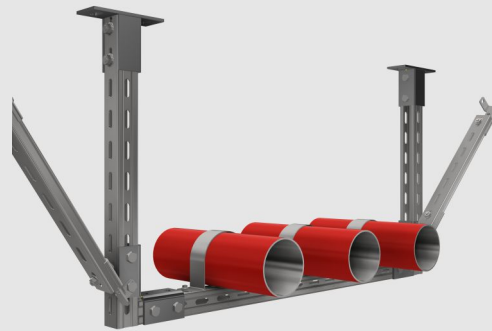

Brace Angle = $45^{\circ} \pm 15^{\circ}$



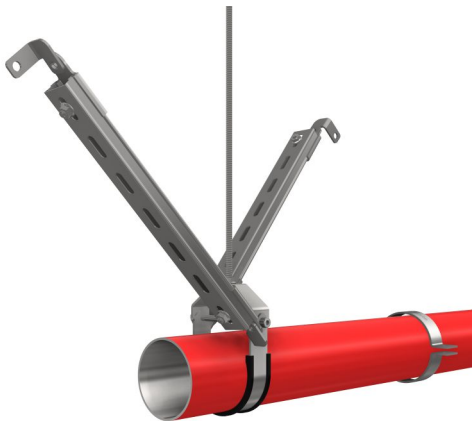
4 Ways Bracing vs C Chanel



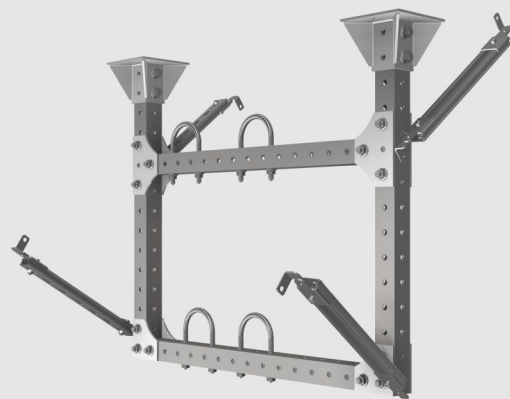
Transversal Bracing



Transversal Bracing



Longitudinal Bracing



Longitudinal Bracing

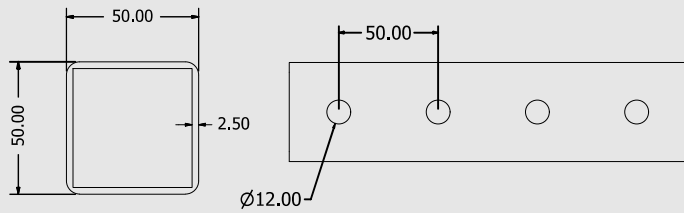
C CHANNEL SWAY BRACE

Cantilever arms

PERFORATED SQUARE TUBE
USQ50

Hot-Deep Galvanized Steel

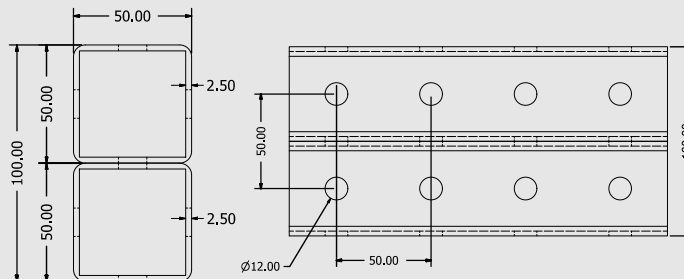
Inertial Properties		
Principal	Global	Center of Gravity
Mass Moments		
Ixx	2543.234 kg mm ²	Calculated using negative integral.
Iyy	0.000 kg mm ²	289584.678 kg
Izz	0.000 kg mm ²	-0.000 kg mm ² 289584.678 kg


USQ50x2

Hot-Deep Galvanized Steel

Inertial Properties*		
Principal	Global	Center of Gravity
Mass Moments		
Ixx	9370.362 kg mm ²	Calculated using negative integral.
Iyy	0.000 kg mm ²	579169.357 kg
Izz	0.000 kg mm ²	-0.000 kg mm ² 583453.251 kg

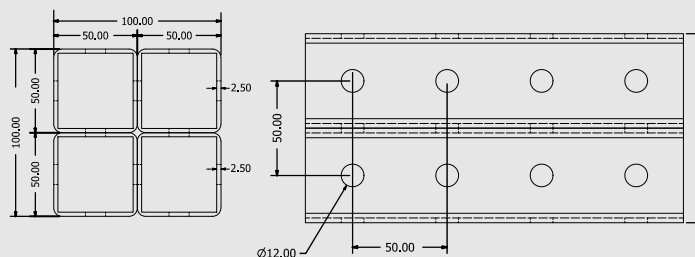
*Values do not reflect overrides or cosmetic weld mass or volume


USQ50x4

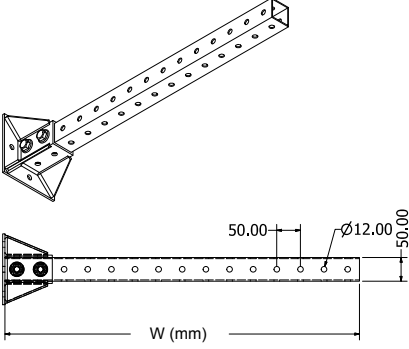
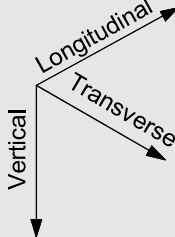
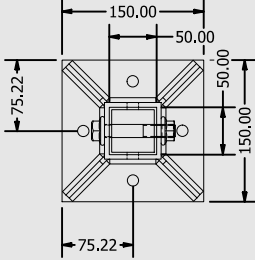
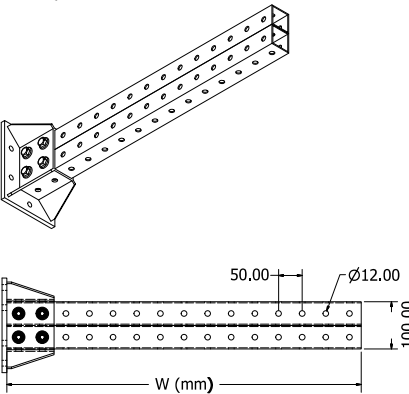
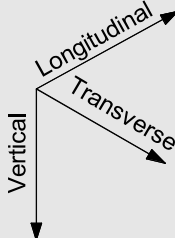
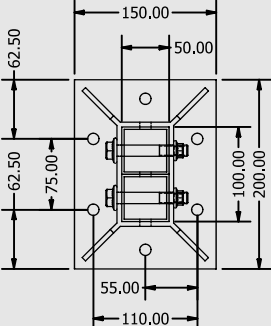
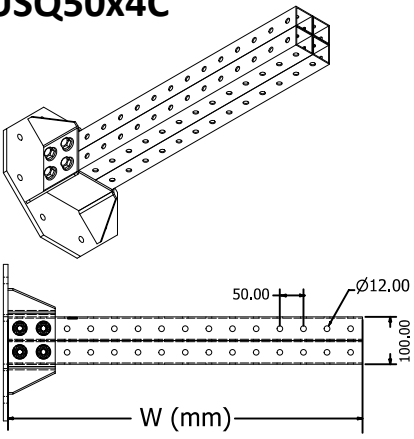
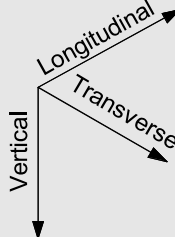
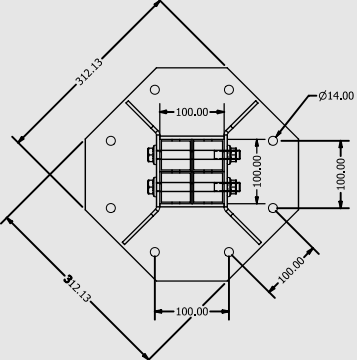
Hot-Deep Galvanized Steel

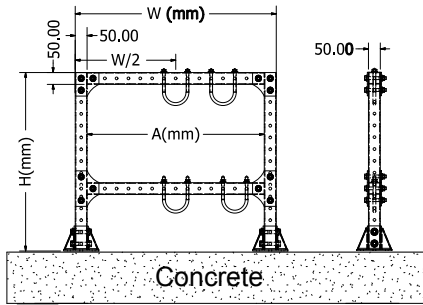
Inertial Properties*		
Principal	Global	Center of Gravity
Mass Moments		
Ixx	27308.512 kg mm ²	Calculated using negative integral.
Iyy	-0.000 kg mm ²	1166906.502 kg
Izz	-0.000 kg mm ²	-0.000 kg mm ² 1166906.502 kg

*Values do not reflect cosmetic weld mass or volume

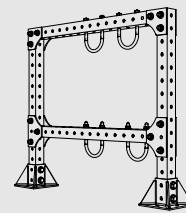
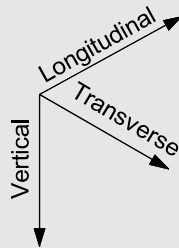
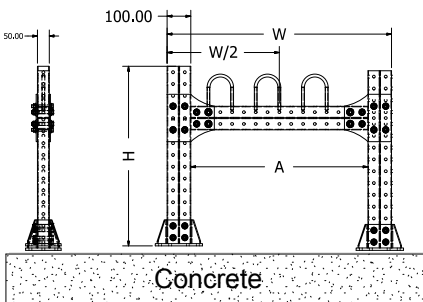


PERFORATED SQUARE TUBE CANTILEVER

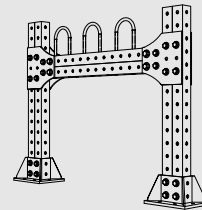
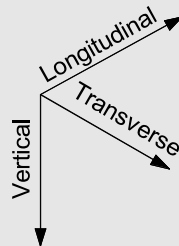
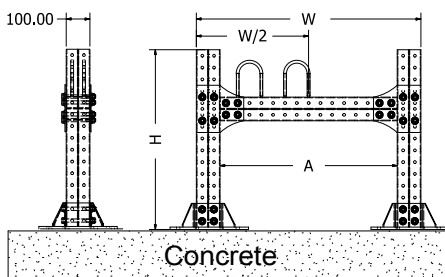
		ALLOWABLE LOADS, kg		Dimension and Load	
				W, mm	450
USQ50C  <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">Hot-Deep Galvanized Steel</div>			Vertical (P)	270	177
			Transverse	81.3	53.0
			Longitudinal	81.3	53.0
USQ50x2C  <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">Hot-Deep Galvanized Steel</div>			Vertical (P)	522	373
			Transverse	156	112
			Longitudinal	156	112
USQ50x4C  <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">Hot-Deep Galvanized Steel</div>			Vertical (P)	1007	709
			Transverse	302	212
			Longitudinal	302	212

PERFORATED SQUARE TUBE GOAL POST
USQ50P

Hot-Deep Galvanized Steel
ALLOWABLE LOADS, kg
Dimension and Load

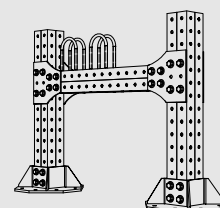
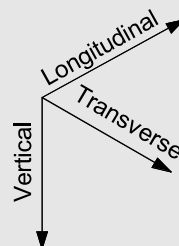
Max H, in	600	900	1200
Max W, in	600	900	1200
Max A, in	500	800	1115
Vertical (P)	522	355	231
Transverse	156	106	69
Longitudinal	156	106	69


USQ50x2P

Hot-Deep Galvanized Steel
ALLOWABLE LOADS, kg
Dimension and Load

Max H, in	600	900	1200
Max W, in	600	900	1200
Max A, in	700	1000	1300
Vertical (P)	1642	1269	970
Transverse	492	380	291
Longitudinal	492	380	291

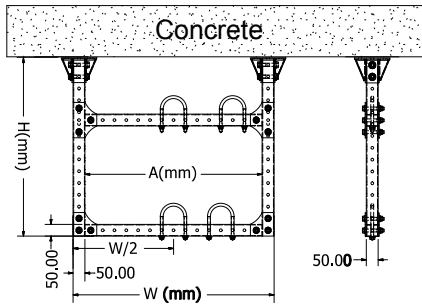

USQ50x4P

Hot-Deep Galvanized Steel
ALLOWABLE LOADS, kg
Dimension and Load

Max H, in	900	1200	1500
Max W, in	900	1200	1500
Max A, in	800	1100	1400
Vertical (P)	1642	1269	970
Transverse	492	380	291
Longitudinal	492	380	291



PERFORATED SQUARE TUBE HANGING FRAME

USQ50H

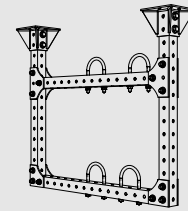
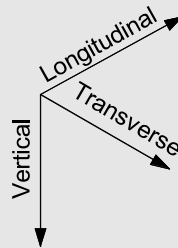


Hot-Deep Galvanized Steel

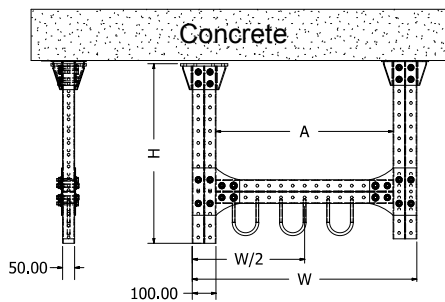
ALLOWABLE LOADS, kg

Dimension and Load

Max H, in	600	900	1200
Max W, in	600	900	1200
Max A, in	500	800	1115
Vertical (P)	522	345	233
Transverse	156	103	69
Longitudinal	156	103	69



USQ50x2H

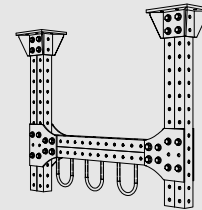
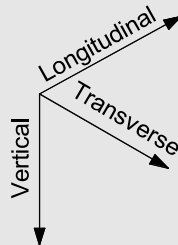


Hot-Deep Galvanized Steel

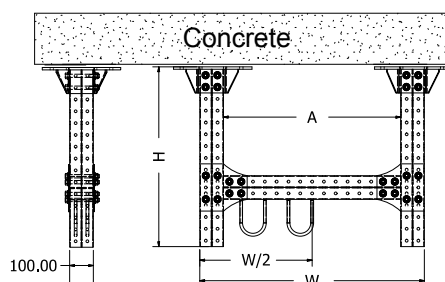
ALLOWABLE LOADS, kg

Dimension and Load

Max H, in	600	900	1200
Max W, in	600	900	1200
Max A, in	500	800	1100
Vertical (P)	858	597	355
Transverse	224	179	106
Longitudinal	224	179	106



USQ50x4H

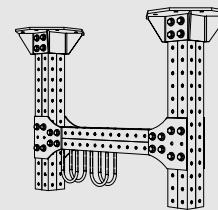
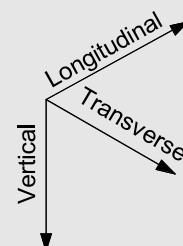


Hot-Deep Galvanized Steel


ALLOWABLE LOADS, kg

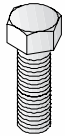
Dimension and Load

Max H, in	900	1200	1500
Max W, in	900	1200	1500
Max A, in	800	1100	1400
Vertical (P)	1120	933	821
Transverse	336	280	246
Longitudinal	336	280	246



NUT, BOLT AND WASHERS

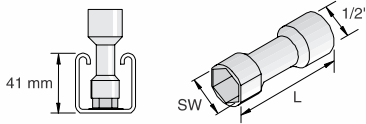
Part No.	Part No.	Part No.	Part No.	Finish			
M6	M8	M10	M12	ZP	HG	SS	
M6x12HS	M8x20HS	M10x20HS	M12x22HS	•	•	•	100
M6x16HS	M8x25HS	M10x25HS	M12x25HS	•	•	•	100
M6x20HS	M8x30HS	M10x30HS	M12x30HS	•	•	•	100
M6x25HS	M8x35HS	M10x40HS	M12x40HS	•	•	•	100
M6x30HS	M8x40HS	M10x50HS	M12x50HS	•	•	•	100
M6x35HS	M8x45HS	M10x60HS	M12x60HS	•	•	•	100
M6x40HS	M8x50HS	M10x80HS	M12x80HS	•	•	•	100
M6x60HS	M8x60HS	M10x100HS	M12x100HS	•	•	•	100



8.8


HEX. HEAD SCREW **ZP** **HG** **SS**

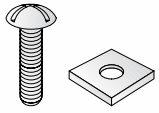
Part No.	Part No.
M10	M12
17AF	19AF



41 mm Max Torque 30Nm 1/2" L SW


CHANNEL SOCKET

Part No.	Finish	L (mm)	$\frac{\phi}{100}$	
	ZP			
M6x12RB	•	12	1.0	100
M6x16RB	•	16	1.0	100
M6x20RB	•	20	1.0	100
M6x25RB	•	25	1.0	100
M6x30RB	•	30	1.0	100
M6x40RB	•	40	1.0	100
M6x50RB	•	50	1.0	100
M6x60RB	•	60	1.0	100




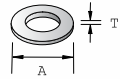
ROOFING NUT & BOLT **ZP**

Part No.	Part No.	Part No.	Part No.	Part No.	Finish		
M6	M8	M10	M12	M16	ZP	HG	SS
M6HN	M8HN	M10HN	M12HN	M16HN	•	•	•




HEX. NUT **ZP** **HG** **SS**

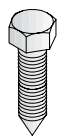
Part No.	Part No.	Part No.	Part No.	Part No.	
M6	M8	M10	M12	M16	
M6FW	M8FW	M10FW	M12FW	M16FW	100
(A=12.5mm)	(A=17mm)	(A=21mm)	(A=24mm)	(A=30mm)	
(T=1.6mm)	(T=2.0mm)	(T=2.5mm)	(T=3.0mm)	(T=3.0mm)	100



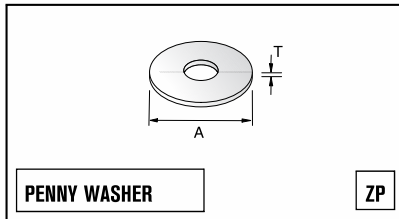
A T


FLAT WASHER **ZP** **HG** **SS**

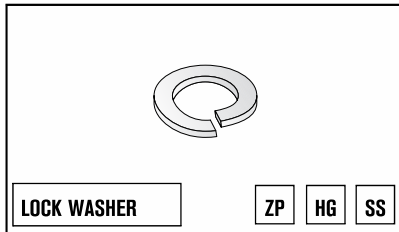
Part No.	Finish	$\frac{\phi}{100}$	
	ZP		
M10x40CP	•	2.5	100
M12x40CP	•	3.9	100



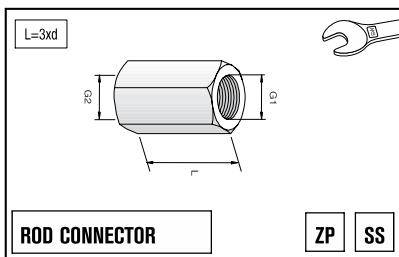
CONE-POINTED SCREW **ZP**


WASHERS AND THREAD ROD CONNECTORS


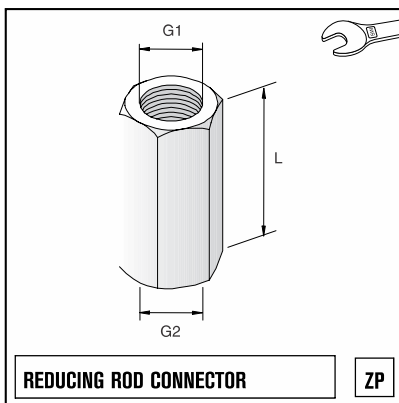
Part No.	Part No.	Part No.	Finish			
			ZP	A	T	
M6	M8	M10				
M6x25PW	M8x25PW	M10x25PW	•	25	1.5	100
M6x32PW	M8x32PW	M10x32PW	•	32	1.5	100




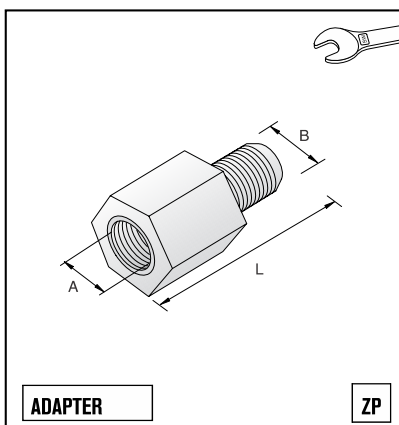
Part No.	Part No.	Part No.	Part No.	Part No.	Finish			
					ZP	HG	SS	
M6	M8	M10	M12	M16				
M6LW	M8LW	M10LW	M12LW	M16LW	•	•	•	100




Part No.	Finish		G	SW mm	L mm	
	ZP	SS				
6334M6	•	•	M6	10	18	50
6334M8	•	•	M8	13	24	50
6334M10	•	•	M10	17	30	50
6334M12	•	•	M12	19	36	50
6334M16	•	•	M16	24	48	50
SP3838	•		3/8"	19	35	50
SP1212	•		1/2"	27	35	50



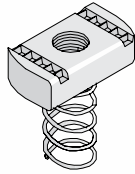
Part No.	Finish		G1	G2	SW mm	L mm	
	ZP						
SPM8M10	•		M8	M10	13	30	50
SPM10M12	•		M10	M12	17	30	50



Part No.	Finish ZP	A	B	SW mm	L mm	
310812	•	M8	M12	13	23	50
311008	•	M10	M8	13	23	50
311012	•	M10	M12	13	23	50
311016	•	M10	M16	19	32	50
311208	•	M12	M8	17	23	50
311210	•	M12	M10	17	25	50
311216	•	M12	M16	19	32	50
311610	•	M16	M10	24	32	50
311612	•	M16	M12	24	32	50
1482210	•	1/2"	M10	24	30	100
1482212	•	1/2"	M12	24	30	100
1482216	•	1/2"	M16	30	35	100

C CHANEL NUTS

Suitable for P1000, P2000 & P3270

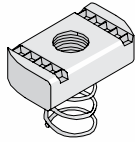


PNL06-PNL12A

ZP HG SS

Part No.	Finish	Thread Size	Weight /100	Box
	ZP	HG	SS	
PNL06	•	•	•	M6 3.26 100
PNL08	•	•	•	M8 3.53 100
PNL10	•	•	•	M10 3.95 100
PNL12	•	•	•	M12 4.78 100
PNL12A	•	•	•	M12 3.43 100

Suitable for P3300, P4000 & P3370

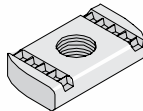


PNS06-PNS12A

ZP HG SS

Part No.	Finish	Thread Size	Weight /100	Box
	ZP	HG	SS	
PNS06	•	•	•	M6 3.1 100
PNS08	•	•	•	M8 3.5 100
PNS10	•	•	•	M10 3.9 100
PNS12A	•	•	•	M12 3.6 100

Suitable for P1000, P2000, P3300, P4000, P5000, P5500, P3270 & P3370



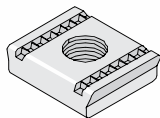
PNP06-PNP12A

ZP HG SS

Part No.	Finish	Thread Size	Weight /100	Box
	ZP	HG	SS	
PNP06	•	•	•	M6 3.10 100
PNP08	•	•	•	M8 3.40 100
PNP10	•	•	•	M10 3.80 100
PNP12*	•	•	•	M12 4.68 100
PNP12A	•	•	•	M12 3.43 100

* PNP12 is not suitable for Unistrut channels P3300, P4000 & P3370

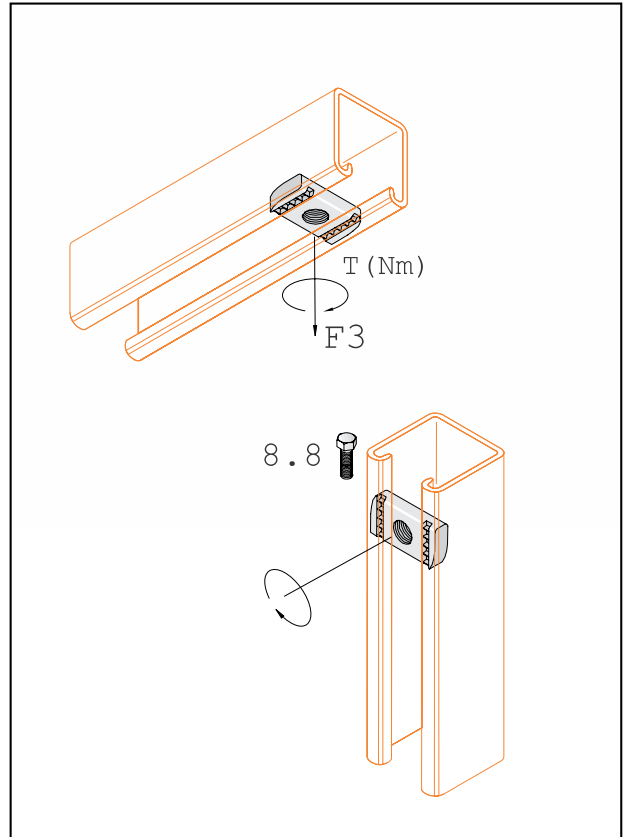
Suitable for P1000, P5000, P5500 & P3270



PNP16

ZP SS

Part No.	Finish	Thread Size	Weight /100	Box
	ZP	SS		
PNP16*	•	•	M16 8.00	100



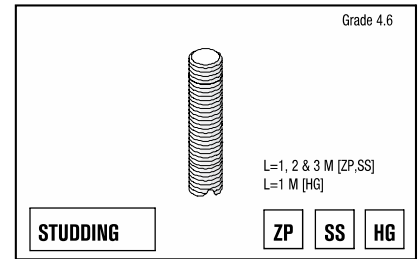
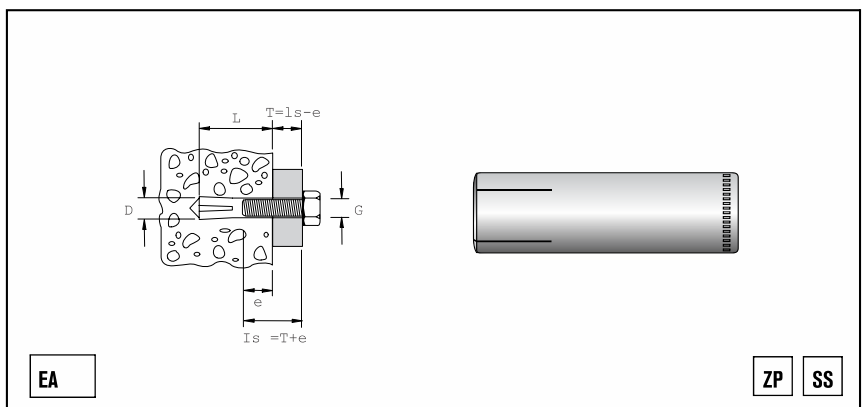
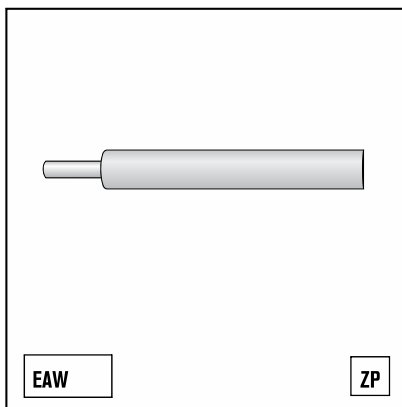
Part No.	T (Nm)	F3 (kN)	
P1000 41	PNP06	12	4.70
	PNP08	28	5.28
	PNP10	55	6.86
	PNP12	95	8.82
	PNP16	125	10.30
	M16SN*	95	8.82
P3300 21	PNP06	12	4.70
	PNP08	28	5.78
	PNP10	55	6.86
	PNP12A	60	6.86
	M16SN*	95	8.82
	P4000 41	PNP06	12
PNP08		28	3.53
PNP10		40	3.92
PNP12A		40	4.41
M16SN*		40	3.92

Part No.	T (Nm)	F3 (kN)	
P1000 41	PNP06	6.5	2.45
	PNP08	16	4.41
	PNP10	31.5	6.86
	PNP12A	55	6.86
	PNP16	125	10.30
P3300 41	PNP06	6.5	2.45
	PNP08	16	4.41
	PNP10	31.5	6.86
	PNP12A	55	6.86



*M16SN Hot forged



THREADED RODS AND STUDS

Part No. M6	Part No. M8	Part No. M10	Part No. M12	Part No. M16	ZP	Finish SS	HG
M6x1M	M8x1M	M10x1M	M12x1M	M16x1M	•	•	•
M6x2M	M8x2M	M10x2M	M12x2M	M16x2M	•	•	•
M6x3M	M8x3M	M10x3M	M12x3M	M16x3M	•	•	•

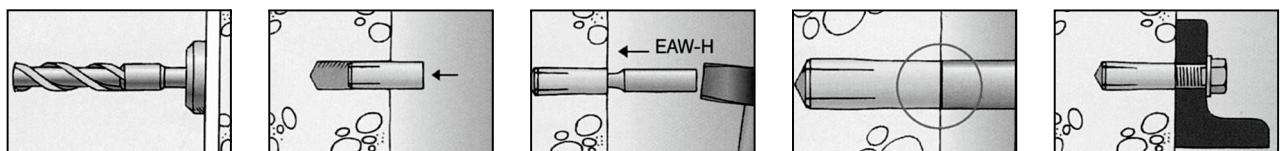

Non drill anchors


Part No.	Part No.
EAWH6	EAM6
EAWH8	EAM8
EAWH8x40	EAM8x40
EAWH10	EAM10
EAWH12	EAM12
EAWH16	EAM16
EAWH20	EAM20

Part No.	Finish ZP	Class	D mm	L mm	 ϕ mm	G	e (mm)			Approval:
							min	max		
EAM6	•	-	8	25	8	M6	6	11	100	
EAM8	•	1.8kN*	10	30	10	M8	8	13	100	VdS
EAM8x40	•	3kN*	10	40	10	M8	8	13	50	VdS FM
EAM10	•	3.6kN*	12	40	12	M10	10	17	50	VdS FM
EAM12	•	5.7kN*	15	50	15	M12	12	18	25	VdS FM
EAM16	•	7.4kN*	20	65	20	M16	16	21	20	VdS FM
EAM20	•	11.3kN*	25	80	25	M20	20	30	10	VdS FM

Part No.	Finish SS	Class	D mm	L mm	 ϕ mm	G	e (mm)			Approval:
							min	max		
EAM6	•	-	8	25	8	M6	6	11	100	
EAM8	•	-	10	30	10	M8	8	13	100	
EAM10	•	3.0kN*	12	40	12	M10	10	17	50	VdS FM
EAM12	•	3.6kN*	15	50	15	M12	12	18	25	FM
EAM16	•	5.7kN*	20	65	20	M16	16	21	20	FM

* Loading data is applicable for concrete pressure zone only (B=25 N/mm²)



ENGINEERING DATA - MASS CHARTS
COPPER TUBE

Nom. Size	Actual Size O.D. (AUS)	Actual Size O.D. (NZ)	Mass of Pipe kg/m	Mass of Pipe filled with water kg/m
15 x 0.9	12.7	14.7	0.30	0.39
18 x 1.0	15.9		0.43	0.58
20 x 1.0	19.0	21.0	0.52	0.75
25 x 1.2	25.4	27.4	0.83	1.25
32 x 1.2	31.8	34.1	1.05	1.72
40 x 1.2	38.1	40.6	1.27	2.27
45 x 1.2	44.5		1.48	2.87
50 x 1.2	51.2	53.3	1.70	3.57
65 x 1.2	63.5	65.0	2.14	5.07
80 x 1.6	76.2	79.4	3.42	7.60
90 x 1.6	88.9	92.5	4.00	9.76
100 x 1.6	101.6	105.6	4.58	12.18
125 x 1.6	127.0	130.2	5.74	17.77
150 x 2.0	152.4	158.0	8.58	25.86
175 x 2.0	177.8		10.03	33.74
200 x 2.0	203.2		11.48	42.63
225 x 2.6	228.6		16.77	56.94

PRESSURE PIPE

ANSI SCH 80 - API XS (UP TO 200 NS)

Nom. Pipe Size	Actual Size O.D. x Wall	Mass of Pipe kg/m	Mass of Pipe filled with water kg/m
8	13.7 x 3.02	0.80	0.85
10	17.1 x 3.20	1.10	1.19
15	21.3 x 3.73	1.62	1.77
20	26.7 x 3.91	2.19	2.47
25	33.4 x 4.55	3.23	3.69
32	42.2 x 4.85	4.47	5.30
40	48.3 x 5.08	5.41	6.55
50	60.3 x 5.54	7.48	9.38
65	73.0 x 7.01	11.41	14.4
80	88.9 x 7.62	15.27	19.53
90	101.6 x 8.08	18.63	24.36
100	114.3 x 8.56	22.37	29.73
125	141.3 x 9.53	30.95	42.69
150	168.3 x 10.97	42.56	59.38
200	219.1 x 12.70	64.63	94.10
250	273.0 x 12.70	81.54	129.70
300	323.9 x 12.70	97.44	167.4
350	355.6 x 12.70	107.38	193.00
400	406.4 x 12.70	123.29	234.30
450	457.0 x 12.70	139.19	285.50
500	508.0 x 12.70	155.10	337.00
600	609.6 x 12.70	186.92	455.00

PRESSURE PIPE

API STD WT - ANSI SCH 40 (UP TO 250 NS)

Nom. Pipe Size	Actual Size O.D. x Wall	Mass of Pipe kg/m	Mass of Pipe filled with water kg/m
8	13.7 x 2.24	0.62	0.69
10	17.1 x 2.31	0.85	0.97
15	21.3 x 2.77	1.27	1.47
20	26.7 x 2.87	1.68	2.11
25	33.4 x 3.38	2.50	3.06
32	42.2 x 3.56	3.38	4.35
40	48.3 x 3.68	4.05	5.37
50	60.3 x 3.91	5.44	7.60
65	73.0 x 5.16	8.62	11.71
80	88.9 x 5.49	11.29	16.06
90	101.6 x 5.74	13.57	19.95
100	114.3 x 6.02	16.07	24.28
125	141.3 x 6.55	21.78	34.69
150	168.3 x 7.11	28.26	46.91
200	219.1 x 8.18	42.53	74.81
250	273.0 x 9.27	60.29	111.14
300	323.9 x 9.53	73.82	146.81
350	355.6 x 9.53	81.28	170.23
400	406.4 x 9.53	93.21	211.05
450	457.0 x 9.53	105.14	255.75
500	508.0 x 9.53	117.07	304.85
600	609.6 x 9.53	140.94	414.85

GALVANISED PIPE

Nom. Size	Actual Size O.D. x Wall	Mass of Pipe kg/m	Mass of Pipe filled with water kg/m
8 N.B Med.	13.5 x 2.3	0.68	0.74
10 N.B Med.	17.2 x 2.3	0.89	1.01
15 N.B Med.	21.3 x 2.6	1.27	1.47
20 N.B Med.	26.9 x 2.6	1.65	2.02
25 N.B Med.	33.7 x 3.2	2.52	3.11
32 N.B Med.	42.4 x 3.2	3.24	4.26
40 N.B Med.	48.3 x 3.2	3.73	5.11
50 N.B Med.	60.3 x 3.6	5.24	7.46
65 N.B Med.	76.1 x 3.6	6.69	10.42
80 N.B Med.	88.9 x 4.0	8.68	13.82
100 N.B Med.	114.3 x 4.5	12.40	21.11
125 N.B Med.	139.7 x 4.9	16.50	29.75
150 N.B Med.	165.1 x 4.9	19.60	38.55

PVC PRESSURE PIPE - CLASS 15

Nom. Size	Actual Size O.D. x Wall	Mass of Pipe kg/m	Mass of Pipe filled with water kg/m
15	21.3 x 1.5	0.14	0.40
20	26.7 x 1.9	0.22	0.61
25	33.5 x 2.3	0.33	0.99
32	42.2 x 2.9	0.54	1.58
40	48.2 x 3.3	0.89	2.05
50	60.3 x 4.1	1.07	3.20
65	75.3 x 5.1	1.66	5.00
80	88.9 x 6.1	2.31	6.93
100	114.3 x 7.7	3.83	11.51
125	140.2 x 9.4	5.76	17.34
150	168.2 x 11.3	8.28	24.93
200	219.1 x 14.8	14.12	42.32

PVC PRESSURE PIPE - CLASS 6

Nom. Size	Actual Size O.D. x Wall	Mass of Pipe kg/m	Mass of Pipe filled with water kg/m
40	48.2 x 1.5	0.31	1.91
50	60.3 x 1.8	0.48	3.00
65	75.3 x 2.2	0.75	4.70
80	88.9 x 2.6	1.03	6.53
100	114.3 x 3.2	1.70	10.84
125	140.2 x 4.0	2.55	16.28
150	168.2 x 4.8	3.65	23.41
200	219.1 x 6.2	6.19	39.75

CAST IRON PIPES CLASS K9

Nom. Size	Actual Size O.D. x Wall	Mass of Pipe kg/m	Pipe and Water kg/m	Concrete Lining Thickness	Mass of Lined Pipe kg/m	Mass of Lined Pipe and Water kg/m
80	95.5 x 6.0	12.36	17.84	6.0	15.64	19.66
100	121.9 x 6.1	16.55	26.00	6.0	21.09	28.59
150	177.3 x 6.3	25.09	46.39	6.0	31.82	50.13
200	232.2 x 6.4	34.18	71.89	8.0	46.18	78.67
225	259.1 x 6.6	39.45	86.94	8.0	52.91	94.42
250	286.0 x 6.8	44.73	103.00	8.0	60.00	111.63
300	345.4 x 7.2	57.09	143.24	10.0	81.45	157.42
375	426.2 x 7.9	79.27	211.55	10.0	109.45	229.15
400	507.0 x 8.6	107.82	290.24	10.0	138.73	312.08
500	560.3 x 9.0	117.82	347.95	10.0	158.91	373.16



Thank you !

PIPE SUPPORTS
END CATALOGUE



STAR ASIA JSC

Head office and factory
Lot C3/C4 - Phung industrial zone
Dan Phuong - Hanoi - Vietnam
Phone : +84(24) 35147999

Email : kinhdoanh@nsca.vn - Website: www.starduct.vn