



ICMS

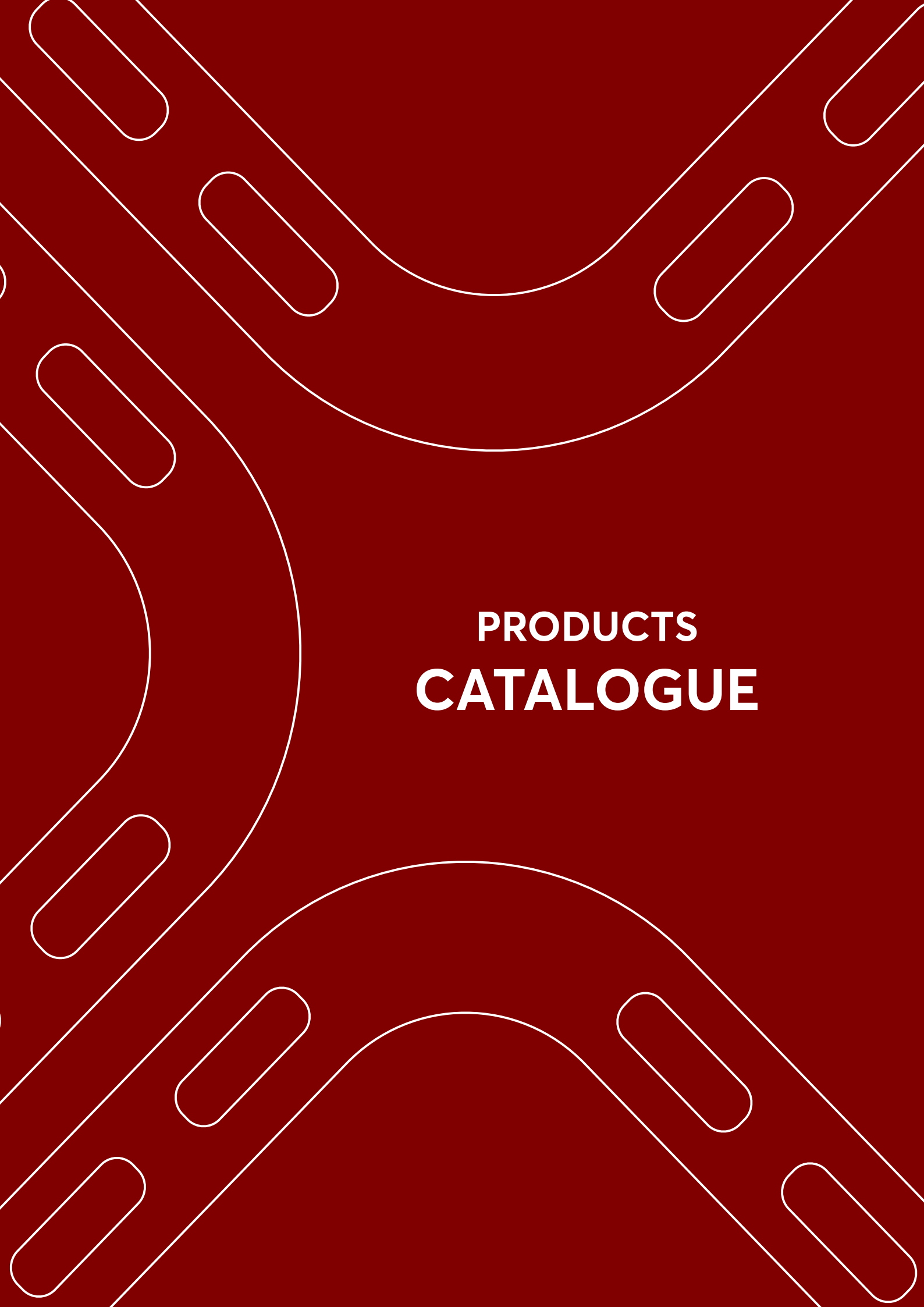
Industrial Cable Management Systems Co.

MECHANICAL SUPPORT SYSTEMS PRODUCTS CATALOGUE

"SPECIALITY IS OUR STRENGTH"

www.icmstray.com



The background is a solid red color. It features a complex, abstract pattern of white lines. These lines include several large, sweeping curves that resemble stylized 'C' shapes or partial circles. Interspersed among these curves are numerous smaller, elongated, rounded rectangular shapes, some of which are oriented diagonally. The overall effect is a dynamic and modern geometric design.

PRODUCTS CATALOGUE



Industrial Cable Management Systems Co.

ICMS

PRODUCT FAMILY OVERVIEW

MECHANICAL SUPPORT SYSTEMS

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Pipe Clamps

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Insulated Pipe Hangers & Saddles

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Channel Support Systems

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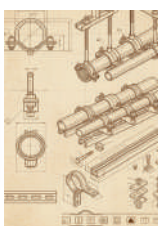
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"SPECIALITY IS OUR STRENGTH"

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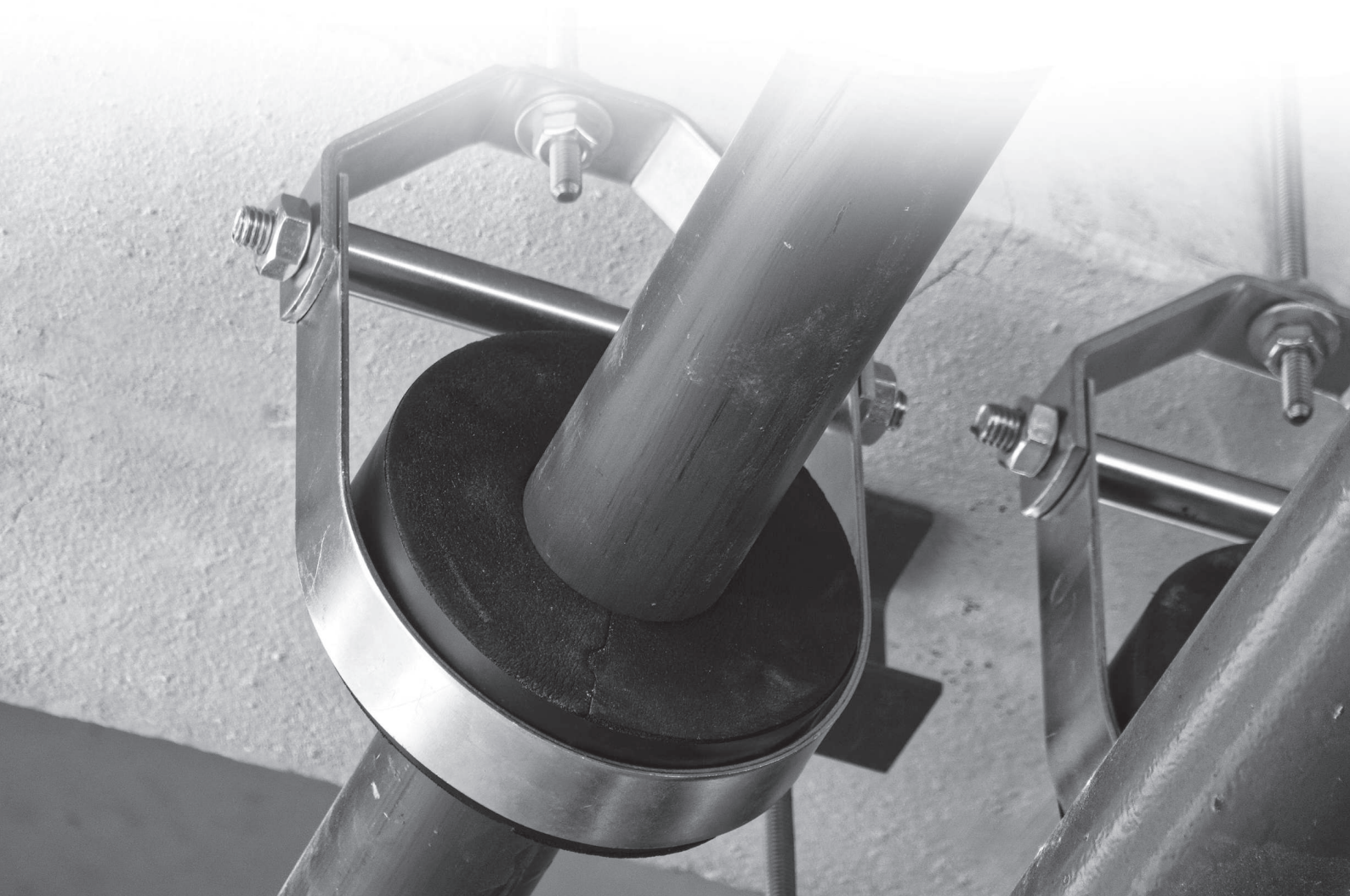
INTRODUCTION

Industrial Cable Management Systems Company (ICMS) is a pioneer in the field of Quality Support Systems in the State of Qatar.

ICMS manufactures a variety of Support Systems that are designed to support a variety of applications. These applications are found in machinery, communications, marine, and many other industries. ICMS owns and operates a fully equipped and modern facility with a wide network of distributors across the Arabian Gulf.

Our advanced manufacturing facilities and the assistance of highly qualified professionals ensure that we provide superior quality products at competitive prices. ICMS products are designed in conformation with an international quality standard such as ISO 9001 and are appreciated for dimensional accuracy and perfect finish.

Our products are approved by various utilities and major consulting offices; further reconfirming the fact that Industrial Cable Management System Company satisfies your definition of quality in every aspect of its business activity.





**First manufacturer
of the complete cable
management & Support
systems in Qatar**



20,000
**Total Area in Square
Meters**



200
**Total Number
Of Employees**



3,00,000
**Monthly Production
Capacity (Meters)**



580
Customers

CERTIFICATIONS

ISO 9001

qualityaustria
Certification

CERTIFICATE

Quality Austria Certification GmbH awards this qualityaustria certificate to the following organisation:

This qualityaustria certificate confirms the application and further development of an effective

ICMS Industrial Cable Management Systems Co. W.L.L.
P.O. Box 22108, Doha, Qatar

QUALITY MANAGEMENT SYSTEM
complying with the requirements of standard
ISO 9001:2015

Design, Manufacture and Supply of Cable Tray - Ladder - Trunking - Supports System (Metallic and Non-metallic), Floor Trunking System, Wire Mesh Cable Trays, Cable Lugs, Cable Tags, Metallic Boxes, Metal Coating Services, (Hot Dip Galvanizing, Powder Coating, & Electro Plating), Conduit System (Flexible and Metallic), Mechanical Support Systems, Earthing & Lightning Protection System Products and Zeta Irrigation Systems.

The validity of the qualityaustria certificate will be maintained by annual surveillance audits and one renewal audit after three years.

Registration No.: Q-99612/0
Date of initial issue: 14 October 2010
Valid until: 05 December 2028

Vienna, 20 October 2025

Quality Austria Certification GmbH,
AT-1010 Vienna, Zelinkagasse 10/3

Mag. Christoph Mond CEO
Mag. Dr. Werner Paar CEO
Mag. Dr. Anri Koudak Specialist representative

The current validity of the certificate is documented exclusively on the internet under <http://www.qualityaustria.com/en/cert>

ISO 45001

qualityaustria
Certification

CERTIFICATE

Quality Austria Certification GmbH awards this qualityaustria certificate to the following organisation:

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ICMS Industrial Cable Management Systems Co. W.L.L.
P.O. Box 22108, Doha, Qatar

OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEMS
complying with the requirements of standard
ISO 45001:2018

Design, Manufacture and Supply of Cable Tray - Ladder - Trunking - Supports System (Metallic and Non-metallic), Floor Trunking System, Wire Mesh Cable Trays, Cable Lugs, Cable Tags, Metallic Boxes, Metal Coating Services, (Hot Dip Galvanizing, Powder Coating, & Electro Plating), Conduit System (Flexible and Metallic), Mechanical Support Systems, Earthing & Lightning Protection System Products and Zeta Irrigation Systems.

The validity of the qualityaustria certificate will be maintained by annual surveillance audits and one renewal audit after three years.

Registration No.: OHS-00456/0
Date of initial issue: 07 January 2020
Valid until: 05 December 2028

Vienna, 20 October 2025

Quality Austria Certification GmbH,
AT-1010 Vienna, Zelinkagasse 10/3

Mag. Christoph Mond CEO
Mag. Dr. Werner Paar CEO
Ing. Klaus Weilmann Specialist representative

The current validity of the certificate is documented exclusively on the internet under <http://www.qualityaustria.com/en/cert>

ISO 14001

qualityaustria
Certification

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ICMS Industrial Cable Management Systems Co. W.L.L.
P.O. Box 22108, Doha, Qatar

ENVIRONMENTAL MANAGEMENT SYSTEM
complying with the requirements of standard
ISO 14001:2015

Design, Manufacture and Supply of Cable Tray - Ladder - Trunking - Supports System (Metallic and Non-metallic), Floor Trunking System, Wire Mesh Cable Trays, Cable Lugs, Cable Tags, Metallic Boxes, Metal Coating Services, (Hot Dip Galvanizing, Powder Coating, & Electro Plating), Conduit System (Flexible and Metallic), Mechanical Support Systems, Earthing & Lightning Protection System Products and Zeta Irrigation Systems.

The validity of the qualityaustria certificate will be maintained by annual surveillance audits and one renewal audit after three years.

Registration No.: U-02432/0
Date of initial issue: 05 May 2014
Valid until: 05 December 2028

Vienna, 20 October 2025

Quality Austria Certification GmbH,
AT-1010 Vienna, Zelinkagasse 10/3

Mag. Christoph Mond CEO
Mag. Dr. Werner Paar CEO
Ing. Christoph Baumgartner, MSc, MBA Authorized representative, Management Customer Service Center

The current validity of the certificate is documented exclusively on the internet under <http://www.qualityaustria.com/en/cert>

CERTIFICATE OF COMPLIANCE

Certificate Number EX28683
Report Reference EX28683-2021-12-27
Date 2021-December-28

Issued to: INDUSTRIAL CABLE MANAGEMENT SYSTEM
A/C - 611779
Area 92, Street No.710, Gate No.532, Mesaieed New Light
Industrial Area
Post Box: 22108
Mesaieed QA

This is to certify that HANGERS, PIPE
representative samples of See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: ANSI/CAN/UL 203 - Pipe Hanger Equipment for Fire
Protection Service

Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up
Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's
Follow-Up Services.

Look for the UL Certification Mark on the product.

B. Mahesh

Bruce Maheshwari, Director North American Certification Program

UL LLC

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contact a local UL Customer Service Representative at ULCustomerService@ul.com



CERTIFICATE OF COMPLIANCE

Certificate Number EX28683
Report Reference EX28683-2021-12-27
Date 2021-December-28

This is to certify that representative samples of the product as specified on this certificate were tested according
to the current UL requirements

USL

Series	Hanger Type	Rod Size	NPS+, in.	Comments
ZMC-204	Band Hanger	10 mm	3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 3-1/2, 4	-
ZMC-204	Band Hanger	12 mm	5, 6, 8	-
ZMC-212	Clevis Hanger	10 mm	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 3-1/2, 4	-
ZMC-212	Clevis Hanger	12 mm	5, 6, 8	-

+ NPS – Nominal Pipe Size

B. Mahesh

Bruce Maheshwari, Director North American Certification Program

UL LLC

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contact a local UL Customer Service Representative at ULCustomerService@ul.com





MANUFACTURERS STANDARDIZATION SOCIETY
OF THE
VALVE AND FITTING INDUSTRY, INC.

HEREBY CERTIFIES THAT

INDUSTRIAL CABLE MANAGEMENT SYSTEM CO.

IS A MEMBER IN GOOD STANDING FOR THE YEAR 2026

Paul Heald
President

Lorna Soderberg
Executive Director

PIPE CLAMPS

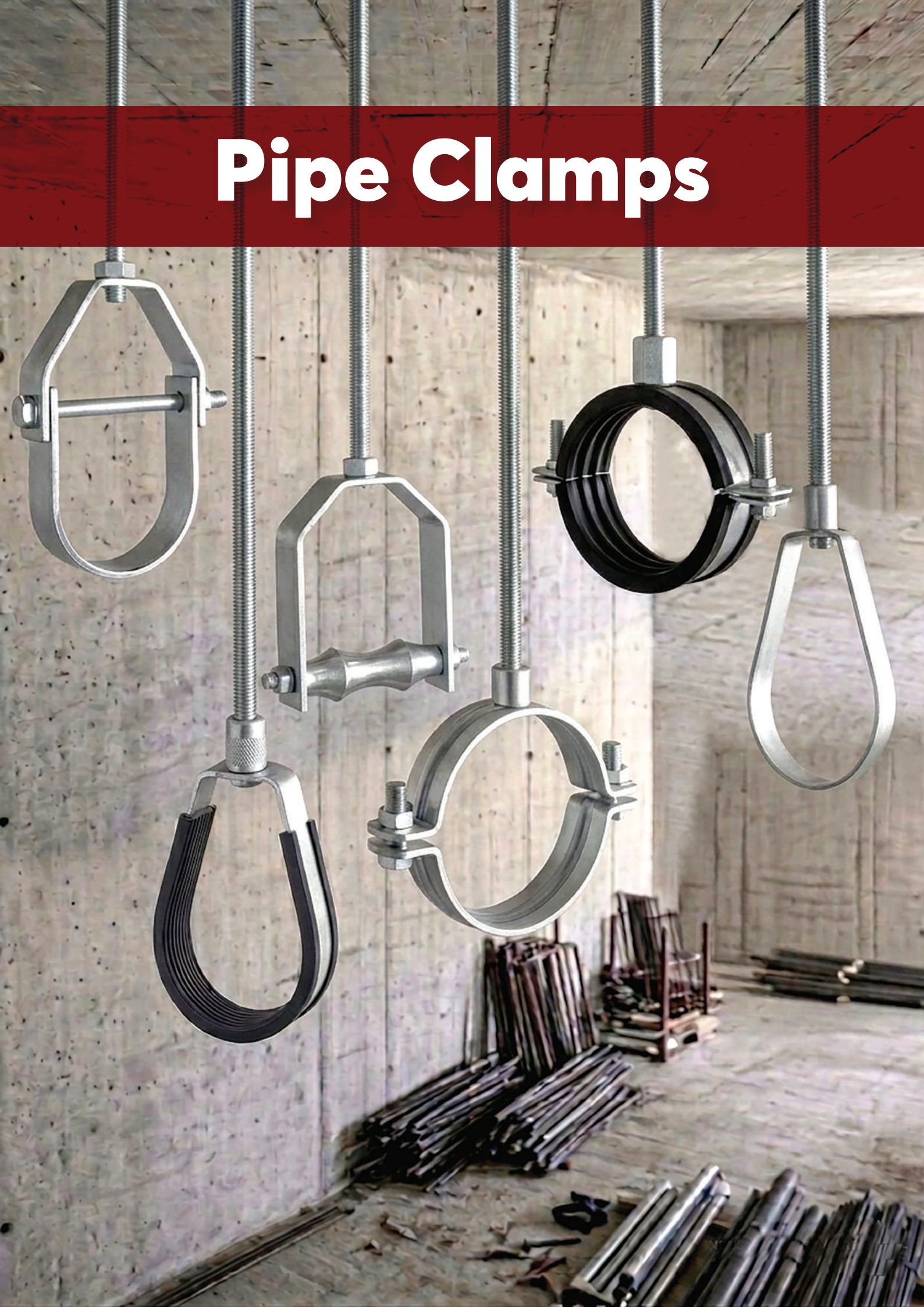
Pipe clamps are one of the most fundamental components in any mechanical support system. Designed to secure pipework firmly to structural surfaces — walls, ceilings, floors, or frames — they prevent movement, vibration, and stress on joints, ensuring the long-term integrity of the pipeline.

ICMS offers a comprehensive range of pipe clamps engineered for a wide variety of applications across oil & gas, HVAC, plumbing, fire protection, and industrial installations. Our clamps are available in split-ring, U-bolt, riser, two-bolt, and strap configurations, each designed to address specific load requirements, pipe sizes, and installation orientations.

All ICMS pipe clamps are manufactured to international standards and are available in multiple finish options — Electro-Galvanized, Hot-Dip Galvanized, Stainless Steel, and Powder Coated — making them suitable for both indoor and outdoor environments, including corrosive or high-humidity conditions.

Whether your project demands standard support for a small-diameter water line or heavy-duty suspension for large industrial pipework, ICMS pipe clamps deliver the strength, reliability, and dimensional accuracy your installation requires.

Pipe Clamps

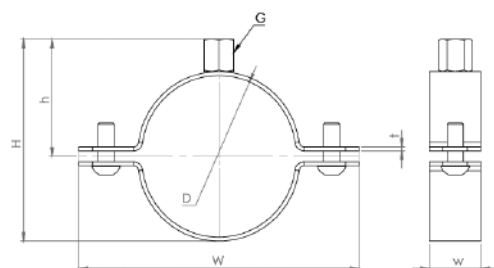


Plain Split Clamp (ZMC-201)

ICMS offers split-ring type pipe clamps with integral fixing nuts. It is extensively used for ceiling suspension or vertical wall mounting of piping. It comprises a number of features to enhance product performance and reliability.

FEATURES

- The ribbed straps of the clamps facilitate greater strength.
- Plain split clamps are designed with extended thread lengths to ensure safer installation and also prevent loosening of the clamp's grip over a period of time.
- It is designed with an exclusive safety feature of welded side-nuts.
- Plain split clamps remain highly flexible by using twin thread nuts.



MATERIAL & FINISH OPTIONS

- EG – Electro-Galvanized: ASTM B633
- HDG – Hot-Dip Galvanized: ASTM A123 / BS EN 1461
- SS – Stainless Steel: Grade 304, 316, 316L (ASTM A240)
- HP – HDG + Powder Coating: ASTM A123 / BS EN 1461 + Powder Coated Finish



ICMS Part No.	Article number	D(mm)	D(″)	Dia(mm)	G	W(mm)	H(mm)	h(mm)	w x t(mm)	Recommended Load (N)
ZMC-201-1	ZMC201018	15-19	3/8	15	M8/M10	59	30	23	20X2.0	2000
ZMC-201-2	ZMC 201022	20 - 24	1/2	22	M8/10	66	37	26	20 x 2.0	2000
ZMC-201-3	ZMC 201028	25 - 30	3/4	28	M8/10	72	43	29	20 x 2.0	2000
ZMC-201-4	ZMC 201035	32 - 36	1	35	M8/10	79	50	33	20 x 2.0	2000
ZMC-201-5	ZMC 201040	38 - 43	1 1/4	42	M8/10	86	57	36	20 x 2.0	2000
ZMC-201-6	ZMC 201048	47 - 51	1 1/2	48	M8/10	92	63	39	20 x 2.0	2000
ZMC-201-7	ZMC 201054	53 - 58	-	54	M8/10	98	69	42	20 x 2.0	2000
ZMC-201-8	ZMC 201060	60 - 64	2	60	M8/10	104	75	45	20 x 2.0	2000
ZMC-201-9	ZMC 201063	63 - 66	-	63	M8/10	108	72	47	20 x 2.0	2000
ZMC-201-10	ZMC 201070	68 - 72	-	70	M8/10	114	85	50	20 x 2.0	2000
ZMC-201-11	ZMC 201075	74 - 80	2 1/2	75	M8/10	119	90	53	20 x 2.0	2000
ZMC-201-12	ZMC 201083	81 - 86	-	83	M8/10	127	98	57	20 x 2.0	2000
ZMC-201-13	ZMC 201090	87 - 92	3	90	M8/10	134	105	60	20 x 2.0	2000
ZMC-201-14	ZMC 201100	99 - 105	3 1/2	100	M8/10	144	115	65	20 x 2.0	2000
ZMC-201-15	ZMC 201110	107 - 112	-	110	M8/10	164	125	70	20 x 2.0	2000
ZMC-201-16	ZMC 201115	113 - 118	4	115	M8/10	159	130	73	20 x 2.0	2000
ZMC-201-17	ZMC 201125	125 - 130	-	125	M8/10	169	140	78	20 x 2.0	2000
ZMC-201-18	ZMC 201133	131 - 137	-	133	M8/10	177	148	82	20 x 2.0	2000
ZMC-201-19	ZMC 201140	138 - 142	5	140	M8/10	184	155	85	20 x 2.5	3000
ZMC-201-20	ZMC 201150	148 - 153	-	150	M8/10	194	165	90	20 x 2.5	3000
ZMC-201-21	ZMC 201160	159 - 166	-	160	M8/10	204	175	95	25 x 2.5	3000
ZMC-201-22	ZMC 201168	168 - 172	6	168	M8/10	212	183	99	25 x 2.5	3000
ZMC-201-23	ZMC 201200	200 - 212	-	200	M8/10	244	215	115	25 x 2.5	3000
ZMC-201-24	ZMC 201220	215 - 220	8	220	M8/10	264	235	125	25 x 2.5	3000
ZMC-201-25	ZMC 201250	248 - 252	-	250	M8/10	294	265	140	25 x 2.5	3000
ZMC-201-26	ZMC 201315	313 - 318	-	315	M8/10	359	330	173	25 x 2.5	3000

Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

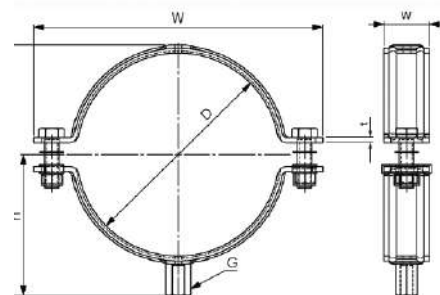
Heavy Duty Split Clamp (ZMC-202)

Heavy duty split clamps are two part clamps with two locking bolts suitable for heavy duty applications.



FEATURES

- Heavy-duty two-part clamp design featuring two locking bolts for high load-bearing capacity and structural stability.
- Integrated welded connection nut (M8/10 or M10/12) to allow for versatile and secure threaded rod mounting.
- High-quality black EPDM rubber lining providing effective vibration control, UV stability, and age resistance.
- Engineering versatility for reliable performance in both standard indoor settings and severe outdoor or industrial environments.



MATERIAL & FINISH OPTIONS

- EG – Electro-Galvanized: ASTM B633
- HDG – Hot-Dip Galvanized: ASTM A123 / BS EN 1461
- SS – Stainless Steel: Grade 304, 316, 316L (ASTM A240)
- HP – HDG + Powder Coating: ASTM A123 / BS EN 1461 + Powder Coated Finish

ICMS Part No.	Article Number	D(mm)	D(″)	DN(mm)	G	W(mm)	H(mm)	h(mm)	w x t(mm)	Recommended Load (N)
ZMC-202-2	ZMC 202019	19 - 23	½	15	M8/10	75	46	32	30 x 2.5	2100
ZMC-202-3	ZMC 202023	25 - 30	¾	20	M8/10	84	57	38	30 x 2.5	2100
ZMC-202-4	ZMC 202036	31 - 36	1	25	M8/10	91	63	41	30 x 2.5	2100
ZMC-202-5	ZMC 202042	37 - 42	-	-	M8/10	98	69	44	30 x 2.5	2100
ZMC-202-6	ZMC 202045	40 - 45	1¼	32	M8/10	101	72	45	30 x 2.5	2100
ZMC-202-7	ZMC 202052	47 - 52	1½	40	M8/10	109	79	49	30 x 2.5	2100
ZMC-202-8	ZMC 202058	53 - 58	-	-	M8/10	115	85	52	30 x 2.5	2100
ZMC-202-9	ZMC 202065	59 - 65	2	50	M8/10	122	92	55	30 x 2.5	2100
ZMC-202-10	ZMC 202071	66 - 71	-	-	M8/10	129	98	58	30 x 2.5	2100
ZMC-202-11	ZMC 202078	72 - 78	2½	65	M10/12	136	115	70	30 x 3.0	3000
ZMC-202-12	ZMC 202085	79 - 85	-	-	M10/12	144	122	75	30 x 3.0	3000
ZMC-202-13	ZMC 202092	86 - 92	3	80	M10/12	152	129	78	30 x 3.0	3000
ZMC-202-14	ZMC 202106	98 - 106	-	-	M10/12	165	143	85	30 x 3.0	3000
ZMC-202-15	ZMC 202116	108 - 116	4	100	M10/12	175	153	90	30 x 3.0	3000
ZMC-202-16	ZMC 202123	116 - 123	-	-	M10/12	182	160	94	30 x 3.0	3000
ZMC-202-17	ZMC 202133	125 - 133	-	-	M10/12	193	170	99	30 x 3.0	3000
ZMC-202-18	ZMC 202140	132 - 140	5	125	M10/12	200	177	102	30 x 3.0	3000
ZMC-202-19	ZMC 202154	148 - 154	-	-	M10/12	215	191	109	30 x 3.0	3000
ZMC-202-20	ZMC 202169	159 - 169	6	150	M10/12	240	207	117	38 x 4.0	4000
ZMC-202-21	ZMC 202183	173 - 183	-	-	M10/12	254	221	124	38 x 4.0	4000
ZMC-202-22	ZMC 202202	192 - 202	-	-	M10/12	274	240	133	38 x 4.0	4000
ZMC-202-23	ZMC 202219	208 - 219	-	-	M10/12	290	256	141	38 x 4.0	4000
ZMC-202-24	ZMC 202227	217 - 227	8	200	M10/12	299	265	146	38 x 4.0	4000

Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

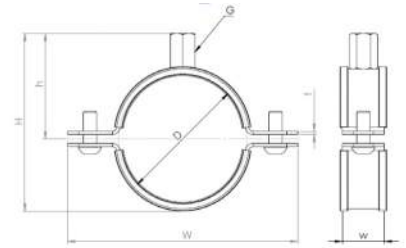
EPDM Lined Split Clamp (ZMC-203)

EPDM Lined split clamps are two part clamps with two locking bolts suitable for horizontal and vertical pipe support applications.



FEATURES

- Two-part clamp design engineered for secure pipe fixation in both horizontal and vertical installations.
- Features lock bolts with a combi cross-recessed head to facilitate efficient on-site assembly.
- Robust steel construction, specifically profiled to provide increased structural strength under load.



MATERIAL & FINISH OPTIONS

- EG – Electro-Galvanized: ASTM B633
- HDG – Hot-Dip Galvanized: ASTM A123 / BS EN 1461
- SS – Stainless Steel: Grade 304, 316, 316L (ASTM A240)
- HP – HDG + Powder Coating: ASTM A123 / BS EN 1461 + Powder Coated Finish

ICMS Part No.	Article Number	D(mm)	D(″)	DN(mm)	G	W(mm)	H(mm)	H(mm)	w x t(mm)	Recommended Load (N)
ZMC-203-1	ZMC 203018	15-19	3/8	15	M8/M10	60	36	26	19 x 1.2	1500
ZMC-203-2	ZMC 203022	20-24	1/2	22	M8/M10	65	43	29	19 x 1.2	1500
ZMC-203-3	ZMC 203028	25-30	3/4	28	M8/M10	70	50	32	19 x 1.2	1500
ZMC-203-4	ZMC 203035	32-36	1	35	M8/M10	85	56	36	19 x 1.2	1500
ZMC-203-5	ZMC 203040	38-43	1 1/4	42	M8/M10	92	63	39	19 x 1.2	1500
ZMC-203-6	ZMC 203048	47-51	1 1/2	48	M8/M10	98	72	42	19 x 1.2	1500
ZMC-203-7	ZMC 203054	53-58	-	54	M8/M10	104	75	45	19 x 1.2	1500
ZMC-203-8	ZMC 203060	60-64	2	60	M8/M10	110	81	48	19 x 1.2	1500
ZMC-203-9	ZMC 203063	63-66	-	63	M8/M10	115	88	51	19 x 1.2	1500
ZMC-203-10	ZMC 203070	68-72	-	70	M8/M10	120	91	53	19 x 1.2	1500
ZMC-203-11	ZMC 203075	74-80	2 1/2	75	M8/10	125	96	56	19 x 1.5	2000
ZMC-203-12	ZMC 203083	81-86	-	83	M8/10	139	108	60	19 x 1.5	2000
ZMC-203-13	ZMC 203090	87-92	3	90	M8/10	146	111	63	19 x 1.5	2000
ZMC-203-14	ZMC 203100	99-105	3 1/2	100	M8/10	156	121	68	19 x 1.5	2000
ZMC-203-15	ZMC 203110	107-112	-	110	M8/10	166	131	73	19 x 1.5	2000
ZMC-203-16	ZMC 203115	113-118	4	115	M8/10	171	136	76	19 x 1.5	2000
ZMC-203-17	ZMC 203125	125-130	-	125	M8/10	181	146	81	19 x 2.0	2500
ZMC-203-18	ZMC 203133	131-137	-	133	M8/10	184	154	85	19 x 2.0	2500
ZMC-203-19	ZMC 203140	138-142	5	140	M8/10	196	161	88	19 x 2.0	2500
ZMC-203-20	ZMC 203150	148-153	-	150	M8/10	206	171	93	19 x 2.0	2500
ZMC-203-21	ZMC 203160	159-166	-	160	M8/10	216	181	98	19 x 2.0	2500
ZMC-203-22	ZMC 203168	168-172	6	168	M8/10	224	189	102	19 x 2.0	2500
ZMC-203-23	ZMC 203200	200-212	-	200	M8/10	256	221	118	19 x 2.0	2500
ZMC-203-24	ZMC 203220	215-220	8	220	M8/10	276	241	128	19 x 2.0	2500

Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

Sprinkler Clamp (ZMC-204)

Sprinkler pipe hangers are designed for suspension of all types of stationary pipes. This is widely used in sprinkler system pipelines. It is available with adjustable swivel ring and supplied with swivel nuts.

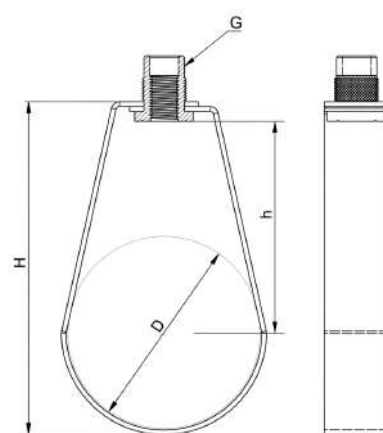


FEATURES

- Knurled swivel nuts incorporate numerous features to ensure a fast and simple installation and designed to support vertical adjustment of pipe level.
- Swivel nuts are the perfect solution to prevent burring or damage to threads.
- Lips are dimpled at bends and above for enhancing strength.
- UL Listed
- Designed to meet MSS Standard SP-58, type 10

MATERIAL & FINISH OPTIONS

- EG – Electro-Galvanized: ASTM B633
- HDG – Hot-Dip Galvanized: ASTM A123 / BS EN 1461
- SS – Stainless Steel: Grade 304, 316, 316L (ASTM A240)
- HP – HDG + Powder Coating: ASTM A123 / BS EN 1461 + Powder Coated Finish



ICMS Part No.	Article Number	D(mm)	D(″)	G	H(mm)	Recommended Load (N)
ZMC-204-1	ZMC 204028	28	¾	M10	61	3000
ZMC-204-2	ZMC 204035	35	1	M10	61	3000
ZMC-204-3	ZMC 204040	42	1¼	M10	75	3000
ZMC-204-4	ZMC 204048	48	1½	M10	81	3000
ZMC-204-5	ZMC 204060	60	2	M10	100	3000
ZMC-204-6	ZMC 204075	73	2½	M10	120	4500
ZMC-204-7	ZMC 204090	89	3	M10	135	4500
ZMC-204-8	ZMC 2040100	105	3½	M10	150	4500
ZMC-204-9	ZMC 2040115	115	4	M10	165	5500
ZMC-204-10	ZMC 204140	140	5	M12	195	5500
ZMC-204-11	ZMC 204168	168	6	M12	230	5500
ZMC-204-12	ZMC 204219	219	8	M12	290	5500
ZMC-204-13	ZMC204273	273	10	M12	315	5500

Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

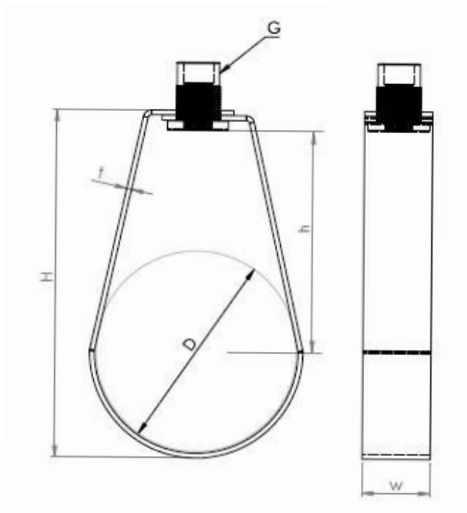
Sprinkler Clamp (ZMC-204-L) - Rubber Lined

Specially designed for the suspension of stationary fire protection and sprinkler system pipelines. The integrated EPDM lining provides essential protection against vibration and noise transmission in high-pressure water systems.



FEATURES

- Knurled swivel nuts ensure fast installation and allow for easy vertical adjustment of pipe levels.
- EPDM Lining acts as a thermal barrier and provides acoustic attenuation by minimizing the transmission of high frequencies.



MATERIAL & FINISH OPTIONS

- EG – Electro-Galvanized: ASTM B633
- HDG – Hot-Dip Galvanized: ASTM A123 / BS EN 1461
- SS – Stainless Steel: Grade 304, 316, 316L (ASTM A240)
- HP – HDG + Powder Coating: ASTM A123 / BS EN 1461 + Powder Coated Finish

ICMS Part No.	Article Number	D (mm)	D (")	G	H (mm)	Recommended Load (N)
ZMC-204-1-L	ZMC 204028-L	28	¾	M10	61	3000
ZMC-204-2-L	ZMC 204035-L	35	1	M10	61	3000
ZMC-204-3-L	ZMC 204040-L	42	1¼	M10	75	3000
ZMC-204-4-L	ZMC 204048-L	48	1½	M10	81	3000
ZMC-204-5-L	ZMC 204060-L	60	2	M10	100	3000
ZMC-204-6-L	ZMC 204075-L	73	2½	M10	120	4500
ZMC-204-7-L	ZMC 204090-L	89	3	M10	135	4500
ZMC-204-8-L	ZMC 2040100-L	105	3½	M10	150	4500
ZMC-204-9-L	ZMC 2040115-L	115	4	M10	165	5500
ZMC-204-10-L	ZMC 204140-L	140	5	M12	195	5500
ZMC-204-11-L	ZMC 204168-L	168	6	M12	230	5500
ZMC-204-12-L	ZMC 204219-L	219	8	M12	290	5500
ZMC-204-13-L	ZMC 204273-L	273	10	M12	315	5500

Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

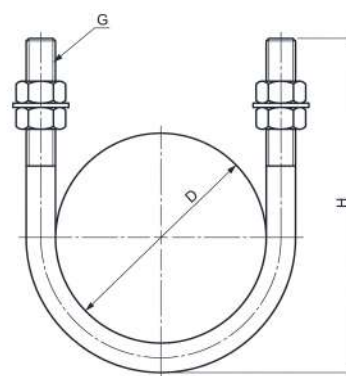
U Bolt (ZMC-205)

ICMS offers a wide range of heavy duty U-bolts and it is designed to support plain and insulated pipes.



FEATURES

- An extensive range of intermediate sizes of U-bolts are available.
- It is completely supplied with four nuts.
- Custom U-Bolt with longer tangents and threaded section available on request
- Designed to meet MSS Standard SP-58, type 24



MATERIAL & FINISH OPTIONS

- EG – Electro-Galvanized: ASTM B633
- HDG – Hot-Dip Galvanized: ASTM A123 / BS EN 1461
- SS – Stainless Steel: Grade 304, 316, 316L (ASTM A240)
- HP – HDG + Powder Coating: ASTM A123 / BS EN 1461 + Powder Coated Finish

ICMS Part No.	Article Number	D (mm)	D (")	G	H (mm)	Lm1 (mm)
ZMC-205-1	ZMC-205-022	21	½	M8	65	35
ZMC-205-2	ZMC-205-028	27	¾	M8	77	35
ZMC-205-3	ZMC-205-035	34	1	M8	85	35
ZMC-205-4	ZMC-205-042	43	1¼	M8	93	35
ZMC-205-5	ZMC-205-048	48	1½	M8	100	35
ZMC-205-6	ZMC-205-060	60	2	M10	110	40
ZMC-205-7	ZMC-205-075	76	2½	M10	127	40
ZMC-205-8	ZMC-205-090	89	3	M10	140	40
ZMC-205-9	ZMC-205-115	115	4	M12	165	50
ZMC-205-10	ZMC-205-140	140	5	M12	190	50
ZMC-205-11	ZMC-205-168	168	6	M12	220	50
ZMC-205-12	ZMC-205-219	219	8	M16	295	75
ZMC-205-13	ZMC-205-273	273	10	M20	370	100
ZMC-205-14	ZMC-205-324	324	12	M20	420	100
ZMC-205-15	ZMC-205-356	356	14	M20	455	100
ZMC-205-16	ZMC-205-406	406	16	M20	505	100
ZMC-205-17	ZMC-205-457	457	18	M24	555	100
ZMC-205-18	ZMC-205-508	508	20	M24	605	100
ZMC-205-19	ZMC-205-610	610	24	M24	710	100

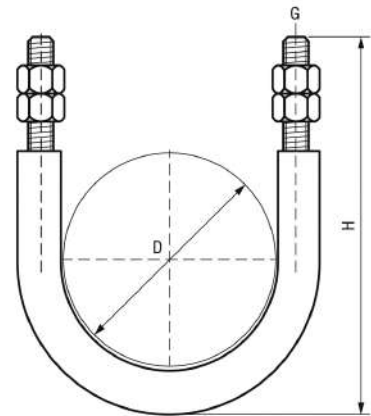
Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

U Bolt (ZMC-205-L) - Rubber Lined

ICMS offers a premium range of rubber-lined U-bolts specifically engineered to support and protect delicate piping systems. These are ideal for applications requiring vibration dampening and thermal insulation.

FEATURES

- The EPDM lining significantly reduces noise and absorbs mechanical vibrations.
- Prevents galvanic corrosion by eliminating metal-to-metal contact between the pipe and the bolt.
- Suitable for operating environments from -20°C to 110°C.
- Each unit is supplied with four nuts for secure installation.



MATERIAL & FINISH OPTIONS

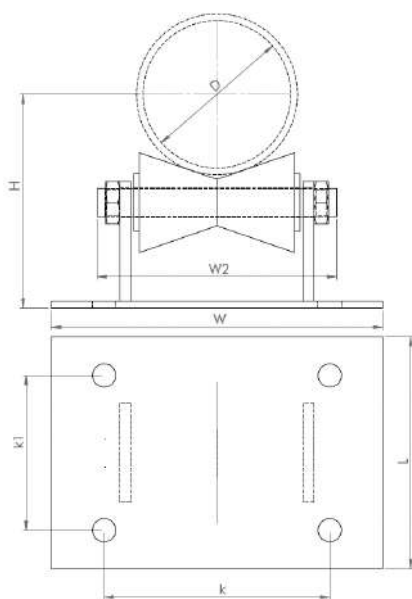
- EG – Electro-Galvanized: ASTM B633
- HDG – Hot-Dip Galvanized: ASTM A123 / BS EN 1461
- SS – Stainless Steel: Grade 304, 316, 316L (ASTM A240)
- HP – HDG + Powder Coating: ASTM A123 / BS EN 1461 + Powder Coated Finish

ICMS Part No.	Article Number	D (mm)	D (")	G	H (mm)	Lm1 (mm)
ZMC-205-1	ZMC-205-022-L	21	½	M8	65	35
ZMC-205-2	ZMC-205-028-L	27	¾	M8	77	35
ZMC-205-3	ZMC-205-035-L	34	1	M8	85	35
ZMC-205-4	ZMC-205-042-L	43	1¼	M8	93	35
ZMC-205-5	ZMC-205-048-L	48	1½	M8	100	35
ZMC-205-6	ZMC-205-060-L	60	2	M10	110	40
ZMC-205-7	ZMC-205-075-L	76	2½	M10	127	40
ZMC-205-8	ZMC-205-090-L	89	3	M10	140	40
ZMC-205-9	ZMC-205-115-L	115	4	M12	165	50
ZMC-205-10	ZMC-205-140-L	140	5	M12	190	50
ZMC-205-11	ZMC-205-168-L	168	6	M12	220	50
ZMC-205-12	ZMC-205-219-L	219	8	M16	295	75
ZMC-205-13	ZMC-205-273-L	273	10	M20	370	100
ZMC-205-14	ZMC-205-324-L	324	12	M20	420	100
ZMC-205-15	ZMC-205-356-L	356	14	M20	455	100
ZMC-205-16	ZMC-205-406-L	406	16	M20	505	100
ZMC-205-17	ZMC-205-457-L	457	18	M24	555	100
ZMC-205-18	ZMC-205-508-L	508	20	M24	605	100
ZMC-205-19	ZMC-205-610-L	610	24	M24	710	100

Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

Pipe Roller Stand (ZMC-206)

Pipe Roller Stands are designed for the support of pipes where axial movement occur due to expansion or contraction.



FEATURES

- The advantages of Pipe Roller Stand are appreciated particularly in incorporating solid steel roller for superior performance compared to conventional cast iron rolls.
- ICMS ensures the supply of Pipe Roller Stand as fully galvanized in accordance with the standard specifications.

MATERIAL & FINISH OPTIONS

- EG – Electro-Galvanized: ASTM B633
- HDG – Hot-Dip Galvanized: ASTM A123 / BS EN 1461
- SS – Stainless Steel: Grade 304, 316, 316L (ASTM A240)
- HP – HDG + Powder Coating: ASTM A123 / BS EN 1461 + Powder Coated Finish



ICMS Part No.	D(″)	L(mm)	W(mm)	W2(mm)	H(mm)	d1(mm)	k(mm)	k1(mm)
ZMC-206-1	2 / 2½ / 3 / 3½	135	120	150	93	16	115	100
ZMC-206-2	4 / 5 / 6	135	160	150	152	16	115	100
ZMC-206-3	8 / 10	165	235	215	242	20	160	110
ZMC-206-4	12 / 14	200	300	275	302	20	220	145
ZMC-206-5	16 / 18 / 20	215	340	310	396	24	245	150
ZMC-206-6	22 / 24	240	390	340	455	24	265	165
ZMC-206-7	26 / 28 / 30	270	470	430	545	28	345	185
ZMC-206-8	30	300	540	500	635	28	415	215

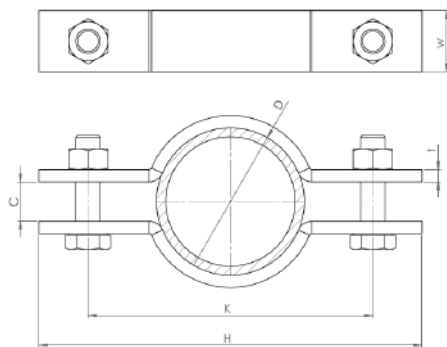
Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

Two Bolt Clamp (ZMC-207)

ICMS Two Bolt Clamps are designed to act as a horizontal support with two bolt arrangement for heavier pipes.

MATERIAL

- (HR) Hot rolled steel sheet: in Acc to ASTM A575-81
- (SS) Stainless Steel: to ASTM 240(Type 304 & 316)



MATERIAL & FINISH OPTIONS

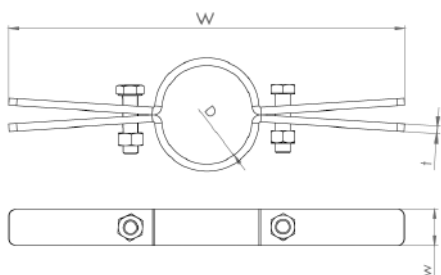
- EG – Electro-Galvanized: ASTM B633
- HDG – Hot-Dip Galvanized: ASTM A123 / BS EN 1461
- SS – Stainless Steel: Grade 304, 316, 316L (ASTM A240)
- HP – HDG + Powder Coating: ASTM A123 / BS EN 1461 + Powder Coated Finish

ICMS Part No.	Article Number	D	BOLT	w × t	k (mm)	H (mm)	C (mm)
ZMC-207-1	ZMC-207-022	1/2"	M10	25×5.0	68	97	12
ZMC-207-2	ZMC-207-028	3/4"	M10	25×5.0	76	105	12
ZMC-207-3	ZMC-207-035	1"	M10	25×5.0	84	113	12
ZMC-207-4	ZMC-207-040	1-1/4"	M10	25×5.0	92	121	12
ZMC-207-5	ZMC-207-048	1-1/2"	M10	25×5.0	98	127	12
ZMC-207-6	ZMC-207-060	2"	M10	25×5.0	116	156	16
ZMC-207-7	ZMC-207-075	2-1/2"	M12	25×6.0	142	182	16
ZMC-207-8	ZMC-207-090	3"	M12	25×6.0	156	196	16
ZMC-207-9	ZMC-207-100	3-1/2"	M12	25×6.0	168	208	16
ZMC-207-10	ZMC-207-115	4"	M12	25×6.0	180	220	19
ZMC-207-11	ZMC-207-140	5"	M16	40×6.0	214	252	19
ZMC-207-12	ZMC-207-168	6"	M16	40×6.0	242	290	22
ZMC-207-13	ZMC-207-220	8"	M16	40×9.0	295	352	25
ZMC-207-14	ZMC-207-273	10"	M16	50×9.0	358	406	25
ZMC-207-15	ZMC-207-323	12"	M20	50×12.0	430	490	25
ZMC-207-16	ZMC-207-355	14"	M20	50×12.0	480	546	28
ZMC-207-17	ZMC-207-406	16"	M20	60×16.0	532	597	28
ZMC-207-18	ZMC-207-457	18"	M20	60×16.0	610	686	32
ZMC-207-19	ZMC-207-508	20"	M20	60×16.0	680	776	35
ZMC-207-20	ZMC-207-610	24"	M20	60×16.0	780	876	42

Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

Riser Clamp (ZMC-208)

ICMS offers an extensive range of riser clamps with special intermediate sizes. Riser clamps are a two point load bearing component and are widely used for vertical running pipelines.



FEATURES

- It ensures lateral stability by permitting axial thermal expansion or contraction on vertical pipes.
- Riser clamps are also available with high grade EPDM lining which acts as a thermal barrier and provides acoustic attenuation by minimizing transmission of high frequencies
- ICMS offers custom designed extended riser clamps.
- Designed to meet MSS Standard SP-58, type 8

MATERIAL & FINISH OPTIONS

- EG – Electro-Galvanized: ASTM B633
- HDG – Hot-Dip Galvanized: ASTM A123 / BS EN 1461
- SS – Stainless Steel: Grade 304, 316, 316L (ASTM A240)
- HP – HDG + Powder Coating: ASTM A123 / BS EN 1461 + Powder Coated Finish

ICMS Part No.	Article Number	D (")	Bolt	W (mm)	w x t (mm)
ZMC-208-1	ZMC-208-022	½	M10	200	25 x 5.0
ZMC-208-2	ZMC-208-028	¾	M10	210	25 x 5.0
ZMC-208-3	ZMC-208-035	1	M10	230	25 x 5.0
ZMC-208-4	ZMC-208-040	1¼	M10	260	25 x 5.0
ZMC-208-5	ZMC-208-048	1½	M10	260	25 x 5.0
ZMC-208-6	ZMC-208-060	2	M10	260	25 x 5.0
ZMC-208-7	ZMC-208-075	2½	M12	290	25 x 6.0
ZMC-208-8	ZMC-208-090	3	M12	290	25 x 6.0
ZMC-208-9	ZMC-208-100	3½	M12	330	25 x 6.0
ZMC-208-10	ZMC-208-115	4	M12	330	25 x 6.0
ZMC-208-11	ZMC-208-140	5	M16	350	40 x 6.0
ZMC-208-12	ZMC-208-168	6	M16	380	40 x 6.0
ZMC-208-13	ZMC-208-220	8	M16	470	40 x 10.0
ZMC-208-14	ZMC-208-273	10	M16	520	50 x 10
ZMC-208-15	ZMC-208-323	12	M20	580	50 x 12.0
ZMC-208-16	ZMC-208-355	14	M20	610	50 x 12.0
ZMC-208-17	ZMC-208-406	16	M20	660	60 x 16.0
ZMC-208-18	ZMC-208-457	18	M20	710	60 x 16.0
ZMC-208-19	ZMC-208-508	20	M20	760	60 x 16.0
ZMC-208-20	ZMC-208-610	24	M20	880	60 x 16.0

Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

Riser Clamp (ZMC-208-L) - Rubber Lined

ICMS offers a heavy-duty range of rubber-lined riser clamps designed as two-point load-bearing components.

These are specifically engineered for the stable suspension of vertical running pipelines where vibration dampening and thermal barriers are required.

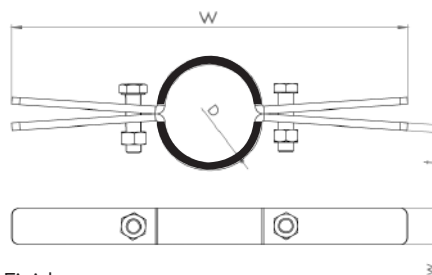
FEATURES

- Ensures vertical alignment while permitting axial thermal expansion or contraction.
- The high-grade EPDM lining minimizes the transmission of high-frequency vibrations and water-flow noise.
- Acts as an effective insulator between the vertical pipe and the building structure.
- The EPDM lining eliminates metal-to-metal contact, preventing galvanic corrosion on sensitive pipe surfaces.



MATERIAL & FINISH OPTIONS

- EG – Electro-Galvanized: ASTM B633
- HDG – Hot-Dip Galvanized: ASTM A123 / BS EN 1461
- SS – Stainless Steel: Grade 304, 316, 316L (ASTM A240)
- HP – HDG + Powder Coating: ASTM A123 / BS EN 1461 + Powder Coated Finish



ICMS Part No.	Article Number	D (")	Bolt	W (mm)	w x t (mm)
ZMC-208-1	ZMC-208-022-L	½	M10	200	25 x 5.0
ZMC-208-2	ZMC-208-028-L	¾	M10	210	25 x 5.0
ZMC-208-3	ZMC-208-035-L	1	M10	230	25 x 5.0
ZMC-208-4	ZMC-208-040-L	1¼	M10	260	25 x 5.0
ZMC-208-5	ZMC-208-048-L	1½	M10	260	25 x 5.0
ZMC-208-6	ZMC-208-060-L	2	M10	260	25 x 5.0
ZMC-208-7	ZMC-208-075-L	2½	M12	290	25 x 6.0
ZMC-208-8	ZMC-208-090-L	3	M12	290	25 x 6.0
ZMC-208-9	ZMC-208-100-L	3½	M12	330	25 x 6.0
ZMC-208-10	ZMC-208-115-L	4	M12	330	25 x 6.0
ZMC-208-11	ZMC-208-140-L	5	M16	350	40 x 6.0
ZMC-208-12	ZMC-208-168-L	6	M16	380	40 x 6.0
ZMC-208-13	ZMC-208-220-L	8	M16	470	40 x 10.0
ZMC-208-14	ZMC-208-273-L	10	M16	520	50 x 10
ZMC-208-15	ZMC-208-323-L	12	M20	580	50 x 12.0
ZMC-208-16	ZMC-208-355-L	14	M20	610	50 x 12.0
ZMC-208-17	ZMC-208-406-L	16	M20	660	60 x 16.0
ZMC-208-18	ZMC-208-457-L	18	M20	710	60 x 16.0
ZMC-208-19	ZMC-208-508-L	20	M20	760	60 x 16.0
ZMC-208-20	ZMC-208-610-L	24	M20	880	60 x 16.0

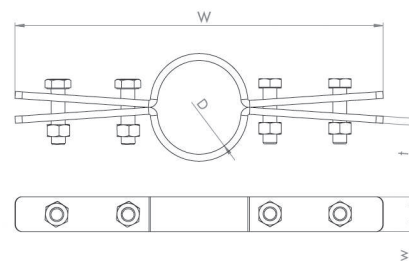
Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

Two Bolt Riser Clamp (ZMC-209)

ICMS offers an extensive range of riser clamps with special intermediate sizes. Riser clamps are a two point load bearing component and are widely used for vertical running pipelines

FEATURES

- It ensures lateral stability by permitting axial thermal expansion or contraction on vertical pipes.
- Riser clamps with EPDM lining is excellent for eliminating corrosion problems also comprises of two additional nuts and bolts.
- ICMS offers custom designed extended riser clamps.



MATERIAL & FINISH OPTIONS

- EG – Electro-Galvanized: ASTM B633
- HDG – Hot-Dip Galvanized: ASTM A123 / BS EN 1461
- SS – Stainless Steel: Grade 304, 316, 316L (ASTM A240)
- HP – HDG + Powder Coating: ASTM A123 / BS EN 1461 + Powder Coated Finish



ICMS Part No.	Article Number	D (")	Bolt	W (mm)	w x t (mm)
ZMC-209-1	ZMC-209-022	½	M10	200	25 x 2.5
ZMC-209-2	ZMC-209-028	¾	M10	210	25 x 5.0
ZMC-209-3	ZMC-209-035	1	M10	230	25 x 5.0
ZMC-209-4	ZMC-209-040	1¼	M10	260	25 x 5.0
ZMC-209-5	ZMC-209-048	1½	M10	260	25 x 5.0
ZMC-209-6	ZMC-209-060	2	M10	260	25 x 5.0
ZMC-209-7	ZMC-209-075	2½	M12	290	25 x 6.0
ZMC-209-8	ZMC-209-090	3	M12	290	25 x 6.0
ZMC-209-9	ZMC-209-100	3½	M12	330	25 x 6.0
ZMC-209-10	ZMC-209-115	4	M12	330	25 x 6.0
ZMC-209-11	ZMC-209-140	5	M16	350	40 x 6.0
ZMC-209-12	ZMC-209-168	6	M16	380	40 x 6.0
ZMC-209-13	ZMC-209-220	8	M16	470	40 x 9.0
ZMC-209-14	ZMC-209-273	10	M16	520	50 x 9.0
ZMC-209-15	ZMC-209-323	12	M20	580	50 x 12.0
ZMC-209-16	ZMC-209-355	14	M20	610	50 x 12.0
ZMC-209-17	ZMC-209-406	16	M20	660	60 x 16.0
ZMC-209-18	ZMC-209-457	18	M20	710	60 x 16.0
ZMC-209-19	ZMC-209-508	20	M20	760	60 x 16.0
ZMC-209-20	ZMC-209-610	24	M20	880	60 x 16.0

Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

U-Strap Clamp (ZMC-210)

U Strap Clamps are designed to clamp plain or insulated pipes with or without rubber support inserts.

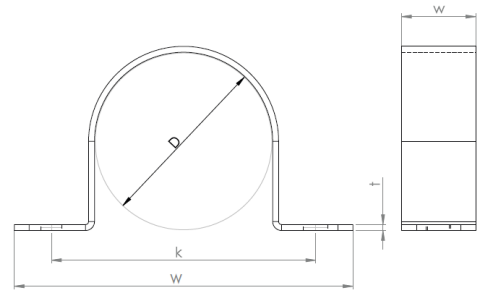


MATERIAL & FINISH OPTIONS

- EG – Electro-Galvanized: ASTM B633
- HDG – Hot-Dip Galvanized: ASTM A123 / BS EN 1461
- SS – Stainless Steel: Grade 304, 316, 316L (ASTM A240)
- HP – HDG + Powder Coating: ASTM A123 / BS EN 1461 + Powder Coated Finish

FEATURES

- Suitable for mounting both plain and insulated piping systems directly to structural profiles, channels, or walls.
- Manufactured from high-grade carbon steel to provide robust mechanical support and long-term durability.
- Engineered with precise dimensional tolerances to facilitate reliable bolt connection splicing and straightforward structural assembly alignment on-site.



ICMS Part No.	Article Number	D (mm)	D (")	Bolt	W (mm)	w x t (mm)	K (mm)
ZMC-210-1	ZMC-210-022	22	½	M8	76	25 x 2.0	51
ZMC-210-2	ZMC-210-028	28	¾	M8	82	25 x 2.0	57
ZMC-210-3	ZMC-210-035	35	1	M8	89	25 x 2.0	64
ZMC-210-4	ZMC-210-042	42	1¼	M8	96	25 x 2.0	71
ZMC-210-5	ZMC-210-048	48	1½	M8	102	25 x 2.0	77
ZMC-210-6	ZMC-210-054	54	-	M8	108	25 x 2.0	83
ZMC-210-7	ZMC-210-060	60	2	M8	114	25 x 2.0	89
ZMC-210-8	ZMC-210-067	67	-	M8	121	25 x 2.0	96
ZMC-210-9	ZMC-210-075	75	2½	M10	145	25 x 3.0	113
ZMC-210-10	ZMC-210-082	82	-	M10	152	25 x 3.0	120
ZMC-210-11	ZMC-210-090	90	3	M10	160	25 x 3.0	128
ZMC-210-12	ZMC-210-100	100	3½	M10	170	25 x 3.0	138
ZMC-210-13	ZMC-210-108	108	-	M10	178	25 x 3.0	146
ZMC-210-14	ZMC-210-115	115	4	M10	185	25 x 3.0	153
ZMC-210-15	ZMC-210-126	126	-	M10	196	25 x 3.0	164
ZMC-210-16	ZMC-210-140	140	5	M10	210	25 x 3.0	178
ZMC-210-17	ZMC-210-148	148	-	M10	218	25 x 3.0	186
ZMC-210-18	ZMC-210-155	155	-	M10	225	25 x 3.0	193

Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

ZMC-210-19	ZMC-210-168	168	6	M10	237	25 × 3.0	205
ZMC-210-20	ZMC-210-179	179	-	M10	249	25 × 3.0	217
ZMC-210-21	ZMC-210-190	190	-	M10	260	38 × 3.0	228
ZMC-210-22	ZMC-210-205	205	-	M10	275	38 × 3.0	243
ZMC-210-23	ZMC-210-219	219	8	M10	289	38 × 3.0	257
ZMC-210-24	ZMC-210-230	230	-	M10	300	38 × 3.0	268
ZMC-210-25	ZMC-210-241	241	-	M12	332	38 × 4.0	291
ZMC-210-26	ZMC-210-263	263	-	M12	354	38 × 4.0	313
ZMC-210-27	ZMC-210-273	273	10	M18	364	38 × 4.0	323
ZMC-210-28	ZMC-210-295	295	-	M18	386	38 × 4.0	345
ZMC-210-29	ZMC-210-323	323	12	M18	414	38 × 4.0	373
ZMC-210-30	ZMC-210-356	356	14	M18	447	50 × 4.0	406
ZMC-210-31	ZMC-210-374	374	-	M18	465	50 × 4.0	424
ZMC-210-32	ZMC-210-406	406	16	M18	497	50 × 4.0	456
ZMC-210-33	ZMC-210-432	432	-	M18	523	50 × 4.0	482
ZMC-210-34	ZMC-210-456	456	18	M18	547	50 × 4.0	506
ZMC-210-35	ZMC-210-482	482	-	M18	573	50 × 4.0	532
ZMC-210-36	ZMC-210-508	508	20	M18	599	50 × 4.0	558
ZMC-210-37	ZMC-210-533	533	-	M18	624	50 × 4.0	583
ZMC-210-38	ZMC-210-559	559	-	M18	650	50 × 4.0	609
ZMC-210-39	ZMC-210-583	583	-	M18	674	50 × 4.0	633
ZMC-210-40	ZMC-210-610	610	24	M18	701	50 × 4.0	660
ZMC-210-41	ZMC-210-658	658	-	M18	766	50 × 6.0	718
ZMC-210-42	ZMC-210-690	690	-	M18	798	50 × 6.0	750
ZMC-210-43	ZMC-210-760	760	-	M18	868	50 × 6.0	820
ZMC-210-44	ZMC-210-863	863	-	M18	971	50 × 6.0	923
ZMC-210-45	ZMC-210-918	918	-	M18	1,026	50 × 6.0	978

Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

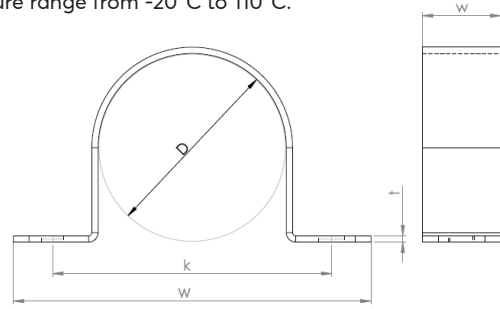
U-Strap (ZMC-210-L) - Rubber Lined

The ZMC-210-L series U-Straps are designed for securing pipes directly to structural members or channels. The integrated rubber lining provides critical insulation, noise dampening, and protection for the pipe surface.



FEATURES

- EPDM lining absorbs mechanical noise and high-frequency vibrations.
- Eliminates metal-to-metal contact, preventing galvanic corrosion.
- Accommodates axial pipe expansion and contraction.
- High-friction lining prevents pipe slippage in vertical runs.
- Service temperature range from -20°C to 110°C.



MATERIAL & FINISH OPTIONS

- EG – Electro-Galvanized: ASTM B633
- HDG – Hot-Dip Galvanized: ASTM A123 / BS EN 1461
- SS – Stainless Steel: Grade 304, 316, 316L (ASTM A240)
- HP – HDG + Powder Coating: ASTM A123 / BS EN 1461 + Powder Coated Finish

ICMS Part No.	Article Number	D (mm)	D (")	Bolt	W (mm)	w x t (mm)	K (mm)
ZMC-210-1	ZMC-210-022-L	22	1/2	M8	76	25 x 2.0	51
ZMC-210-2	ZMC-210-028-L	28	3/4	M8	82	25 x 2.0	57
ZMC-210-3	ZMC-210-035-L	35	1	M8	89	25 x 2.0	64
ZMC-210-4	ZMC-210-042-L	42	1 1/4	M8	96	25 x 2.0	71
ZMC-210-5	ZMC-210-048-L	48	1 1/2	M8	102	25 x 2.0	77
ZMC-210-6	ZMC-210-054-L	54	-	M8	108	25 x 2.0	83
ZMC-210-7	ZMC-210-060-L	60	2	M8	114	25 x 2.0	89
ZMC-210-8	ZMC-210-067-L	67	-	M8	121	25 x 2.0	96
ZMC-210-9	ZMC-210-075-L	75	2 1/2	M10	145	25 x 3.0	113
ZMC-210-10	ZMC-210-082-L	82	-	M10	152	25 x 3.0	120
ZMC-210-11	ZMC-210-090-L	90	3	M10	160	25 x 3.0	128
ZMC-210-12	ZMC-210-100-L	100	3 1/2	M10	170	25 x 3.0	138
ZMC-210-13	ZMC-210-108-L	108	-	M10	178	25 x 3.0	146
ZMC-210-14	ZMC-210-115-L	115	4	M10	185	25 x 3.0	153
ZMC-210-15	ZMC-210-126-L	126	-	M10	196	25 x 3.0	164
ZMC-210-16	ZMC-210-140-L	140	5	M10	210	25 x 3.0	178
ZMC-210-17	ZMC-210-148-L	148	-	M10	218	25 x 3.0	186
ZMC-210-18	ZMC-210-155-L	155	-	M10	225	25 x 3.0	193

Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

ZMC-210-19	ZMC-210-168-L	168	6	M10	237	25 × 3.0	205
ZMC-210-20	ZMC-210-179-L	179	-	M10	249	25 × 3.0	217
ZMC-210-21	ZMC-210-190-L	190	-	M10	260	38 × 3.0	228
ZMC-210-22	ZMC-210-205-L	205	-	M10	275	38 × 3.0	243
ZMC-210-23	ZMC-210-219-L	219	8	M10	289	38 × 3.0	257
ZMC-210-24	ZMC-210-230-L	230	-	M10	300	38 × 3.0	268
ZMC-210-25	ZMC-210-241-L	241	-	M12	332	38 × 4.0	291
ZMC-210-26	ZMC-210-263-L	263	-	M12	354	38 × 4.0	313
ZMC-210-27	ZMC-210-273-L	273	10	M18	364	38 × 4.0	323
ZMC-210-28	ZMC-210-295-L	295	-	M18	386	38 × 4.0	345
ZMC-210-29	ZMC-210-323-L	323	12	M18	414	38 × 4.0	373
ZMC-210-30	ZMC-210-356-L	356	14	M18	447	50 × 4.0	406
ZMC-210-31	ZMC-210-374-L	374	-	M18	465	50 × 4.0	424
ZMC-210-32	ZMC-210-406-L	406	16	M18	497	50 × 4.0	456
ZMC-210-33	ZMC-210-432-L	432	-	M18	523	50 × 4.0	482
ZMC-210-34	ZMC-210-456-L	456	18	M18	547	50 × 4.0	506
ZMC-210-35	ZMC-210-482-L	482	-	M18	573	50 × 4.0	532
ZMC-210-36	ZMC-210-508-L	508	20	M18	599	50 × 4.0	558
ZMC-210-37	ZMC-210-533-L	533	-	M18	624	50 × 4.0	583
ZMC-210-38	ZMC-210-559-L	559	-	M18	650	50 × 4.0	609
ZMC-210-39	ZMC-210-583-L	583	-	M18	674	50 × 4.0	633
ZMC-210-40	ZMC-210-610-L	610	24	M18	701	50 × 4.0	660
ZMC-210-41	ZMC-210-658-L	658	-	M18	766	50 × 6.0	718
ZMC-210-42	ZMC-210-690-L	690	-	M18	798	50 × 6.0	750
ZMC-210-43	ZMC-210-760-L	760	-	M18	868	50 × 6.0	820
ZMC-210-44	ZMC-210-863-L	863	-	M18	971	50 × 6.0	923
ZMC-210-45	ZMC-210-918-L	918	-	M18	1,026	50 × 6.0	978

Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

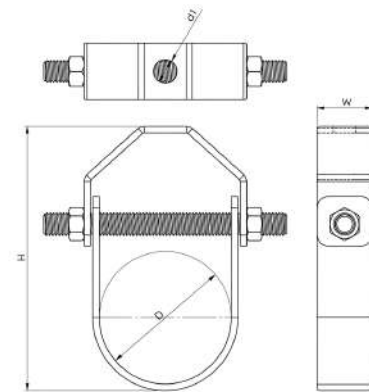
Clevis Hanger (ZMC-212)

ICMS offers a comprehensive range of special intermediate sizes of adjustable clevis hangers to suit any kind of insulated pipe OD. It incorporates the key benefit of substantial level adjustability to ensure a fast and simple installation. It is widely used in insulated stationary piping.



FEATURES

- Clevis hangers are adjustable hangers that supply vertical adjustment and greatly help with the levelling of piping systems.
- A wide range of intermediate sizes of clevis hangers are available to enhance installation quality. As a result, it helps to avoid the usage of oversize hangers.
- Designed to meet MSS Standard SP-58, type 1
- UL Listed



MATERIAL & FINISH OPTIONS

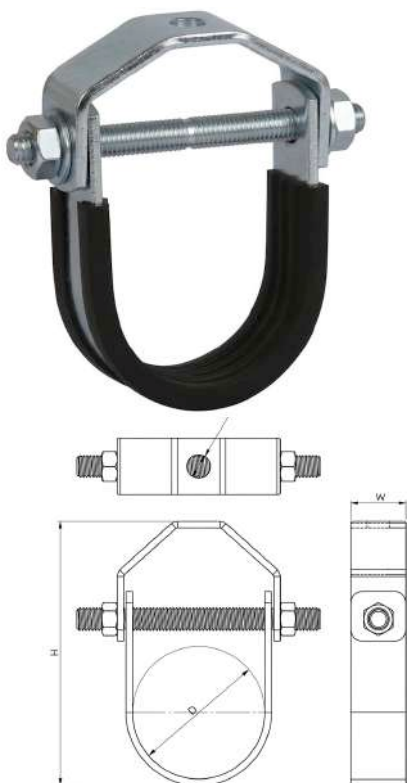
- EG – Electro-Galvanized: ASTM B633
- HDG – Hot-Dip Galvanized: ASTM A123 / BS EN 1461
- SS – Stainless Steel: Grade 304, 316, 316L (ASTM A240)
- HP – HDG + Powder Coating: ASTM A123 / BS EN 1461 + Powder Coated Finish

ICMS Part No	Article Number	D(mm)	D (")	Bolt	H (mm)	d1 (mm)	Recommended Load (N)
ZMC-212-1	ZMC-212-022	22	1/2	M6 x 68 mm	70	10	4000
ZMC-212-2	ZMC-212-028	28	3/4	M6 x 78 mm	76	10	4000
ZMC-212-3	ZMC-212-035	35	1	M6 x 82 mm	82	10	4000
ZMC-212-4	ZMC-212-040	42	1 1/4	M6 x 82 mm	92	10	4000
ZMC-212-5	ZMC-212-048	48	1 1/2	M8 x 88 mm	100	10	4000
ZMC-212-6	ZMC-212-060	60	2	M8 x 110 mm	117	10	4000
ZMC-212-7	ZMC-212-075	73	2 1/2	M8 x 125 mm	146	10	6500
ZMC-212-8	ZMC-212-090	89	3	M10 x 140 mm	155	10	6500
ZMC-212-9	ZMC-212-100	105	3 1/2	M10 x 155 mm	173	10	6500
ZMC-212-10	ZMC-212-115	115	4	M10 x 170 mm	198	10	8000
ZMC-212-11	ZMC-212-140	140	5	M10 x 195 mm	232	12	8000
ZMC-212-12	ZMC-212-168	168	6	M12 x 225 mm	266	12	11000
ZMC-212-13	ZMC-212-219	219	8	M12 x 275 mm	338	12	13000
ZMC-212-14	ZMC-212-273	273	10	M16 x 360 mm	419	16	13000
ZMC-212-15	ZMC-212-323	323	12	M20 x 420 mm	490	20	15000
ZMC-212-16	ZMC-212-355	355	14	M20 x 455 mm	556	20	15000
ZMC-212-17	ZMC-212-406	406	16	M24 x 510 mm	610	24	17500
ZMC-212-18	ZMC-212-457	457	18	M24 x 555 mm	675	24	17500
ZMC-212-19	ZMC-212-508	508	20	M24 x 610 mm	715	30	22000
ZMC-212-20	ZMC-212-610	610	24	M24 x 710 mm	850	30	27000
ZMC-212-21	ZMC-212-755	755	30	M24 x 890 mm	995	30	30000

Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

Clevis Hanger (ZMC-212-L) - Rubber Lined

ICMS offers a comprehensive range of adjustable clevis hangers to suit any kind of insulated pipe OD, incorporating substantial level adjustability for fast and simple installation in stationary chilled water and fire fighting piping systems.



FEATURES

- EPDM lining absorbs mechanical noise and high-frequency vibrations.
- Eliminates metal-to-metal contact to prevent galvanic corrosion between the pipe and hanger.
- Flexible lining allows for axial pipe expansion and contraction.
- High-friction rubber grip prevents pipe slippage, especially in vertical runs.
- Operates effectively within a service temperature range of -20°C to 110°C.

MATERIAL & FINISH OPTIONS

- EG – Electro-Galvanized: ASTM B633
- HDG – Hot-Dip Galvanized: ASTM A123 / BS EN 1461
- SS – Stainless Steel: Grade 304, 316, 316L (ASTM A240)
- HP – HDG + Powder Coating: ASTM A123 / BS EN 1461 + Powder Coated Finish

ICMS Part No	Article Number	D (mm)	D (")	Bolt	H (mm)	d1 (mm)	Recommended Load (N)
ZMC-212-1	ZMC-212-022-L	22	1/2	M6 x 68 mm	70	10	4000
ZMC-212-2	ZMC-212-028-L	28	3/4	M6 x 78 mm	76	10	4000
ZMC-212-3	ZMC-212-035-L	35	1	M6 x 82 mm	82	10	4000
ZMC-212-4	ZMC-212-040-L	42	1 1/4	M6 x 82 mm	92	10	4000
ZMC-212-5	ZMC-212-048-L	48	1 1/2	M8 x 88 mm	100	10	4000
ZMC-212-6	ZMC-212-060-L	60	2	M8 x 110 mm	117	10	4000
ZMC-212-7	ZMC-212-075-L	73	2 1/2	M8 x 125 mm	146	10	6500
ZMC-212-8	ZMC-212-090-L	89	3	M10 x 140 mm	155	10	6500
ZMC-212-9	ZMC-212-100-L	105	3 1/2	M10 x 155 mm	173	10	6500
ZMC-212-10	ZMC-212-115-L	115	4	M10 x 170 mm	198	10	8000
ZMC-212-11	ZMC-212-140-L	140	5	M10 x 195 mm	232	12	8000
ZMC-212-12	ZMC-212-168-L	168	6	M12 x 225 mm	266	12	11000
ZMC-212-13	ZMC-212-219-L	219	8	M12 x 275 mm	338	12	13000
ZMC-212-14	ZMC-212-273-L	273	10	M16 x 360 mm	419	16	13000
ZMC-212-15	ZMC-212-323-L	323	12	M20 x 420 mm	490	20	15000
ZMC-212-16	ZMC-212-355-L	355	14	M20 x 455 mm	556	20	15000
ZMC-212-17	ZMC-212-406-L	406	16	M24 x 510 mm	610	24	17500
ZMC-212-18	ZMC-212-457-L	457	18	M24 x 555 mm	675	24	17500
ZMC-212-19	ZMC-212-508-L	508	20	M24 x 610 mm	715	30	22000
ZMC-212-20	ZMC-212-610-L	610	24	M24 x 710 mm	850	30	27000
ZMC-212-21	ZMC-212-755-L	755	30	M24 x 890 mm	995	30	30000

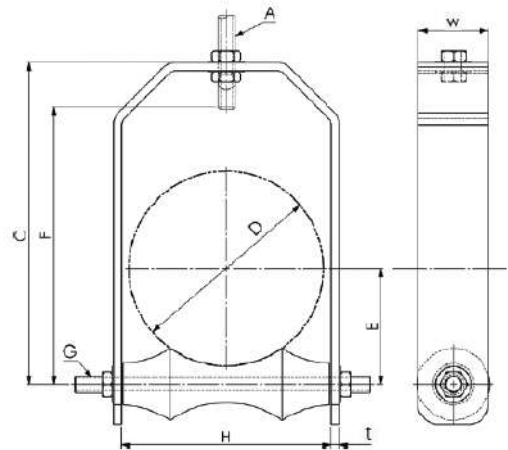
Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

Roller Hanger (ZMC-213)

Adjustable Roller Hangers are designed for the suspension of pipe from a single rod where axial movement occur due to expansion or contraction.

FEATURES

- The advantages of Adjustable roller hanger are appreciated particularly in incorporating solid steel roller for superior performance compared to conventional cast iron rolls.
- It is designed for the vertical level adjustment of piping system.
- ICMS ensures the supply of adjustable roller hanger as fully galvanized in accordance with the standard specifications.



MATERIAL & FINISH OPTIONS

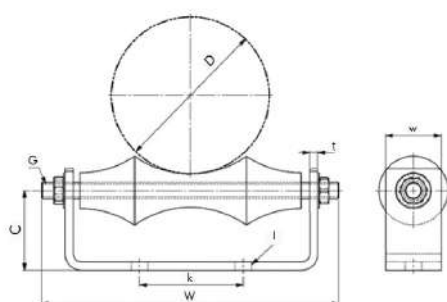
- EG – Electro-Galvanized: ASTM B633
- HDG – Hot-Dip Galvanized: ASTM A123 / BS EN 1461
- SS – Stainless Steel: Grade 304, 316, 316L (ASTM A240)
- HP – HDG + Powder Coating: ASTM A123 / BS EN 1461 + Powder Coated Finish

ICMS Part No.	Article Number	D	A	C (mm)	E	F (mm)	H (mm)	G	w x t (mm)
ZMC-213-1	ZMC-213-060	2	M10	122	41	98	64	M12	25x3
ZMC-213-2	ZMC-213-075	2½	M12	148	50	124	92	M12	25x3
ZMC-213-3	ZMC-213-090	3	M12	161	56	137	94	M12	32x6
ZMC-213-4	ZMC-213-100	3½	M12	180	65	153	110	M12	32x6
ZMC-213-5	ZMC-213-115	4	M12	192	69	162	122	M12	25x6
ZMC-213-6	ZMC-213-140	5	M12	233	88	202	152	M12	40x6
ZMC-213-7	ZMC-213-168	6	M18	260	102	227	180	M20	50x6
ZMC-213-8	ZMC-213-220	8	M22	326	131	283	230	M20	65x10
ZMC-213-9	ZMC-213-273	10	M22	381	161	339	285	M20	65x10
ZMC-213-10	ZMC-213-323	12	M22	440	192	400	335	M24	65x12
ZMC-213-11	ZMC-213-355	14	M24	478	212	433	372	M24	65x12
ZMC-213-12	ZMC-213-406	16	M24	524	233	480	421	M32	65x12
ZMC-213-13	ZMC-213-457	18	M24	590	267	550	474	M32	65x12
ZMC-213-14	ZMC-213-508	20	M32	664	300	605	522	M36	75x16
ZMC-213-15	ZMC-213-610	24	M32	788	351	718	630	M36	75x16

Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

Pipe Roller Chair (ZMC-214)

Pipe Roller Chairs are designed for the support of pipes where axial movement occurs due to expansion or contraction.



FEATURES

- The advantages of Pipe Roller Chair are appreciated particularly in incorporating solid steel roller for superior performance compared to conventional cast iron rolls.
- ICMS ensures the supply of Pipe Roller Chair as fully galvanized in accordance with the standard specifications.

MATERIAL & FINISH OPTIONS

- EG – Electro-Galvanized: ASTM B633
- HDG – Hot-Dip Galvanized: ASTM A123 / BS EN 1461
- SS – Stainless Steel: Grade 304, 316, 316L (ASTM A240)
- HP – HDG + Powder Coating: ASTM A123 / BS EN 1461 + Powder Coated Finish

ICMS Part No.	Article Number	D	W (mm)	C (mm)	k (mm)	l (mm)	G	w x t (mm)
ZMC-214-1	ZMC-214-060	2	110	40	35	12	M12	32×6
ZMC-214-2	ZMC-214-075	2½	110	40	35	12	M12	32×6
ZMC-214-3	ZMC-214-090	3	145	45	50	12	M12	32×6
ZMC-214-4	ZMC-214-100	3½	145	45	50	12	M12	32×6
ZMC-214-5	ZMC-214-115	4	180	50	50	16	M12	40×8
ZMC-214-6	ZMC-214-140	5	215	55	75	16	M12	40×8
ZMC-214-7	ZMC-214-168	6	250	60	80	16	M20	50×10
ZMC-214-8	ZMC-214-220	8	285	75	85	19	M20	50×10
ZMC-214-9	ZMC-214-273	10	345	90	130	19	M20	50×12
ZMC-214-10	ZMC-214-323	12	395	105	140	19	M24	50×12
ZMC-214-11	ZMC-214-355	14	440	120	165	25	M24	60×12
ZMC-214-12	ZMC-214-406	16	480	140	210	25	M32	75×12
ZMC-214-13	ZMC-214-457	18	525	155	235	25	M32	75×12
ZMC-214-14	ZMC-214-508	20	555	165	260	25	M36	75×12
ZMC-214-15	ZMC-214-610	24	665	200	310	25	M50	100×16
ZMC-214-16	ZMC-214-660	26	720	220	335	25	M50	100×16
ZMC-214-17	ZMC-214-712	28	771	240	360	25	M50	100×16
ZMC-214-18	ZMC-214-762	30	822	260	385	25	M50	100×16

Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

Pipe Roller (ZMC-215)

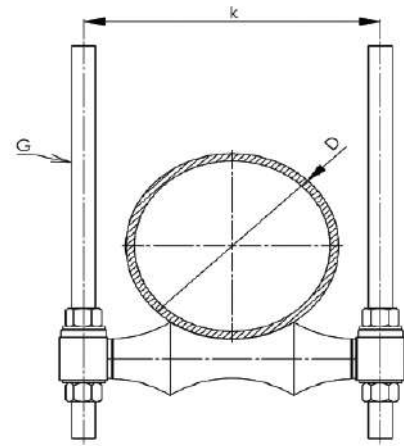
Pipe Rollers are designed for the suspension of pipe from threaded rod where axial movement occurs due to expansion or contraction.

FEATURES

- The pipe rollers are appreciated particularly in incorporating solid steel roller for superior performance compared to conventional cast iron rolls.
- It is designed for the vertical level adjustment of piping system.
- ICMS ensures the supply of adjustable roller hanger as fully galvanized in accordance with the standard specifications.

MATERIAL & FINISH OPTIONS

- EG – Electro-Galvanized: ASTM B633
- HDG – Hot-Dip Galvanized: ASTM A123 / BS EN 1461
- SS – Stainless Steel: Grade 304, 316, 316L (ASTM A240)
- HP – HDG + Powder Coating: ASTM A123 / BS EN 1461 + Powder Coated Finish



ICMS Part No.	Article Number	D (")	G	k (mm)
ZMC-215-1	ZMC-215-060	2	M12	125
ZMC-215-2	ZMC-215-075	2½	M12	144
ZMC-215-3	ZMC-215-090	3	M12	157
ZMC-215-4	ZMC-215-100	3½	M12	169
ZMC-215-5	ZMC-215-115	4	M12	187
ZMC-215-6	ZMC-215-140	5	M12	226
ZMC-215-7	ZMC-215-168	6	M20	273
ZMC-215-8	ZMC-215-220	8	M20	309
ZMC-215-9	ZMC-215-273	10	M20	362
ZMC-215-10	ZMC-215-323	12	M24	420
ZMC-215-11	ZMC-215-355	14	M24	470
ZMC-215-12	ZMC-215-406	16	M32	510
ZMC-215-13	ZMC-215-457	18	M32	551
ZMC-215-14	ZMC-215-508	20	M36	591
ZMC-215-15	ZMC-215-610	24	M36	670

Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

Pipe Shoe Clamp (ZMC-216)

The ZMC-216 Series is a structural pipe support designed for insulated piping systems. It provides a rigid elevation (Bottom of Pipe) to allow for continuous insulation and facilitates axial thermal movement along the supporting structure.

Material : Carbon Steel (Stainless Steel available on request).

Finish : Electro galvanised, Hot Dip Galvanized

- Heavy-duty structure features integrated Rib and End plates to provide maximum rigidity and prevent buckling under high-load, water-filled piping.
- High-durability Hot-Dip Galvanized (HDG) coating as per ISO 1461 ensures long-term corrosion resistance in industrial and humid environments.
- Extended base plate length safely accommodates axial pipe expansion and contraction during thermal cycles to prevent slipping off structural supports.
- Standardized base width ensures a secure and stable fit on all common structural I-beams and H-beams used in MEP systems



MATERIAL & FINISH OPTIONS

- EG – Electro-Galvanized: ASTM B633
- HDG – Hot-Dip Galvanized: ASTM A123 / BS EN 1461
- SS – Stainless Steel: Grade 304, 316, 316L (ASTM A240)
- HP – HDG + Powder Coating: ASTM A123 / BS EN 1461 + Powder Coated Finish

Model No.	Pipe Size (Inch)	Pipe O.D. (mm)	Shoe Height (H)	Shoe Length (L)	Base Width (B)	Plate Thk. (T)
ZMC-216-2	2"	60.3	100 mm	300 mm	100 mm	6 mm
ZMC-216-3	3"	88.9	100 mm	300 mm	100 mm	6 mm
ZMC-216-4	4"	114.3	100 mm	300 mm	150 mm	8 mm
ZMC-216-6	6"	168.3	150 mm	300 mm	150 mm	8 mm
ZMC-216-8	8"	219.1	150 mm	450 mm	200 mm	10 mm
ZMC-216-10	10"	273	150 mm	450 mm	200 mm	10 mm
ZMC-216-12	12"	323.9	150 mm	600 mm	250 mm	12 mm

Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

INSULATED PIPE HANGERS & SADDLES

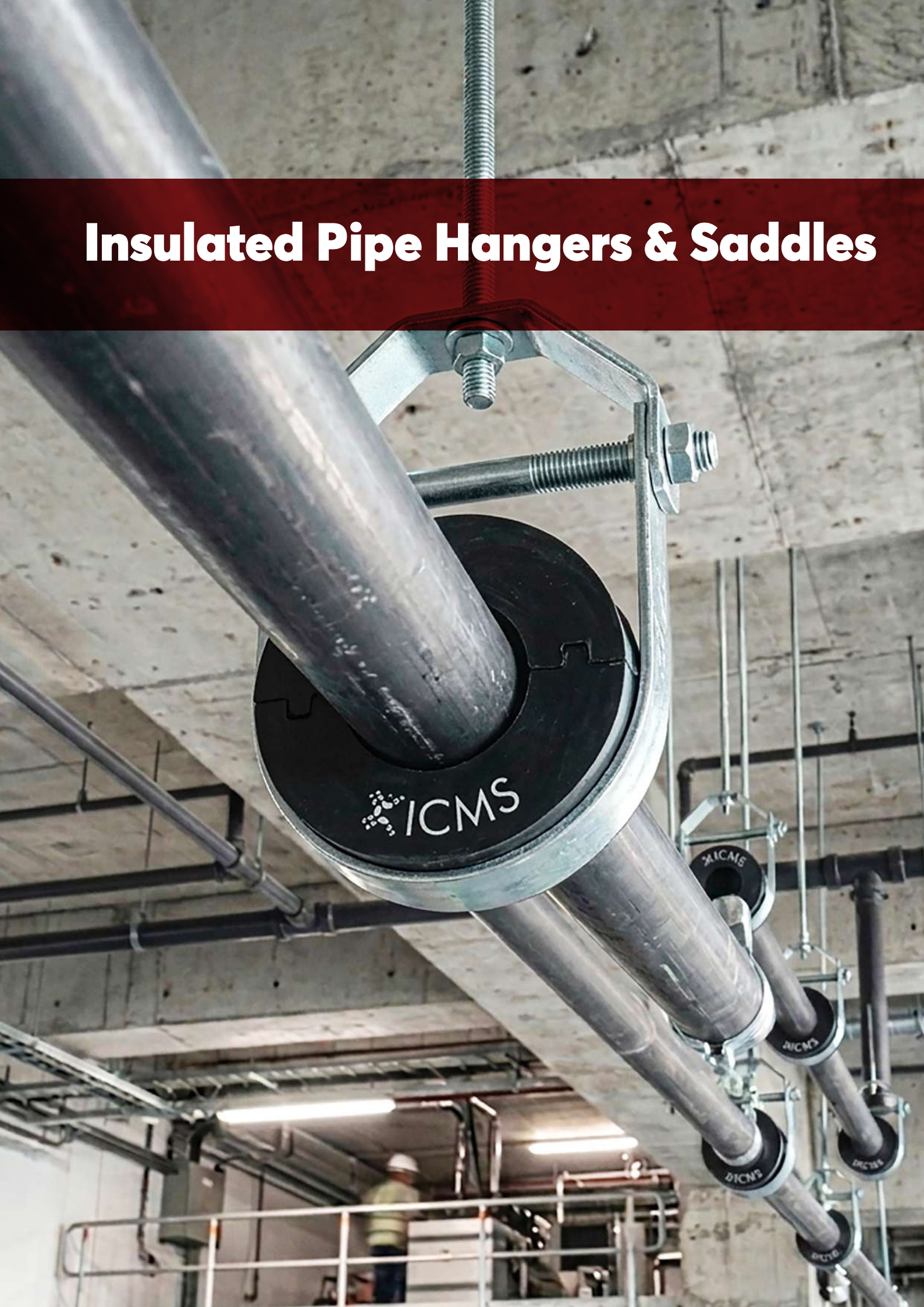
Where pipes carry extremely hot or cold media, conventional metallic support systems are not sufficient. Direct contact between the pipe and the support structure can cause thermal bridging, condensation, corrosion, and energy loss — compromising both the performance of the system and the longevity of the installation.

ICMS insulated pipe hangers and saddles are engineered specifically to eliminate these risks. By incorporating high-performance insulation materials — including EPDM rubber, polyisocyanurate foam, and calcium silicate — between the pipe and the support structure, these products provide complete thermal isolation while maintaining the structural integrity of the support.

Our insulated range is widely used in chilled water systems, cryogenic pipelines, district cooling networks, steam distribution, and process piping where temperature control is critical. Each product is available in a range of pipe sizes and insulation thicknesses, and can be custom-specified to match project insulation schedules.

ICMS insulated pipe hangers and saddles meet international thermal and structural standards, ensuring compliance with the most demanding project specifications across the region.

Insulated Pipe Hangers & Saddles

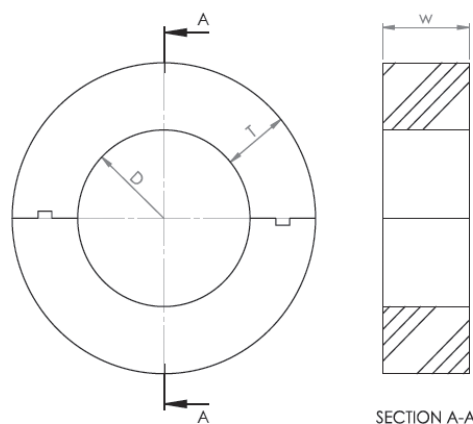


Rubber Support Insert for Steel Pipes (ZMCI-201)

Rubber Support Inserts are dimensionally accurate molded rubber pieces used at the support points of insulated steel pipes.

FEATURES

- Material: Rubber
- Material Density: 1400 kg/m (Range: 1100–1600 kg/m)
- Thermal Conductivity: 0.16 W/m•°C
- Temperature Range: –20°C to +110°C
- System Compatibility: Engineered for use with ICMS Clevis Hangers, U-Straps, Plain Clamps, and U-bolts.



Nominal Pipe Size		Pipe OD D	ICMS Part No	Width W	T = 1/2" (13mm)		T = 3/4" (19mm)		T = 1" (25mm)		T = 1 1/4" (32mm)	
(inch)	DN	(mm)			Art Number	A (mm)	Art Number	A (mm)	Art Number	A (mm)	Art Number	A (mm)
1/2"	DN15	21.3	ZMCI-201-1	25	ZMCI201-121325	47	ZMCI201-121925	59	ZMCI201-122525	71	ZMCI201-123225	85
3/4"	DN20	26.7	ZMCI-201-2	25	ZMCI201-341325	53	ZMCI201-341925	65	ZMCI201-342525	77	ZMCI201-343225	91
1"	DN25	33.4	ZMCI-201-3	25	ZMCI201-11325	60	ZMCI201-11925	71	ZMCI201-12525	83	ZMCI201-13225	98
1 1/4"	DN32	42.1	ZMCI-201-4	25	ZMCI201-1141325	68	ZMCI201-1141925	80	ZMCI201-1142525	92	ZMCI201-1143225	106
1 1/2"	DN40	48.2	ZMCI-201-5	25	ZMCI201-1121325	74	ZMCI201-1121925	86	ZMCI201-1122525	98	ZMCI201-1123225	112
2"	DN50	60.3	ZMCI-201-6	25	ZMCI201-21325	86	ZMCI201-21925	98	ZMCI201-22525	110	ZMCI201-23225	124
2 1/2"	DN65	73	ZMCI-201-7	38	ZMCI201-2121338	99	ZMCI201-2121938	111	ZMCI201-2122538	123	ZMCI201-2123238	137
3"	DN80	88.9	ZMCI-201-8	38	ZMCI201-31338	115	ZMCI201-31938	127	ZMCI201-32538	140	ZMCI201-33238	153
3 1/2"	DN90	101.6	ZMCI-201-9	38	ZMCI201-3121338	127	ZMCI201-3121938	140	ZMCI201-3122538	152	ZMCI201-3123238	166
4"	DN100	114.3	ZMCI-201-10	38	ZMCI201-41338	140	ZMCI201-41938	152	ZMCI201-42538	164	ZMCI201-43238	178
5"	DN125	141.3	ZMCI-201-11	38	ZMCI201-51338	167	ZMCI201-51938	179	ZMCI201-52538	191	ZMCI201-53238	205
6"	DN150	168.3	ZMCI-201-12	50	ZMCI201-61350	194	ZMCI201-61950	206	ZMCI201-62550	218	ZMCI201-63250	232
8"	DN200	219.1	ZMCI-201-13	50	ZMCI201-81350	245	ZMCI201-81950	257	ZMCI201-82550	269	ZMCI201-83250	283
10"	DN250	273.1	ZMCI-201-14	50	ZMCI201-101350	299	ZMCI201-101950	311	ZMCI201-102550	323	ZMCI201-103250	337
12"	DN300	323.8	ZMCI-201-15	50	ZMCI201-121350	350	ZMCI201-121950	362	ZMCI201-122550	374	ZMCI201-123250	388
14"	DN350	355.6	ZMCI-201-16	50	ZMCI201-141350	382	ZMCI201-141950	394	ZMCI201-142550	406	ZMCI201-143250	420
16"	DN400	406.4	ZMCI-201-17	50	ZMCI201-161350	432	ZMCI201-161950	444	ZMCI201-162550	456	ZMCI201-163250	470
18"	DN450	457.2	ZMCI-201-18	50	ZMCI201-181350	483	ZMCI201-181950	495	ZMCI201-182550	507	ZMCI201-183250	521
20"	DN500	508	ZMCI-201-19	50	ZMCI201-201350	534	ZMCI201-201950	546	ZMCI201-202550	558	ZMCI201-203250	572
24"	DN600	609.6	ZMCI-201-20	50	ZMCI201-241350	636	ZMCI201-241950	648	ZMCI201-242550	660	ZMCI201-243250	674

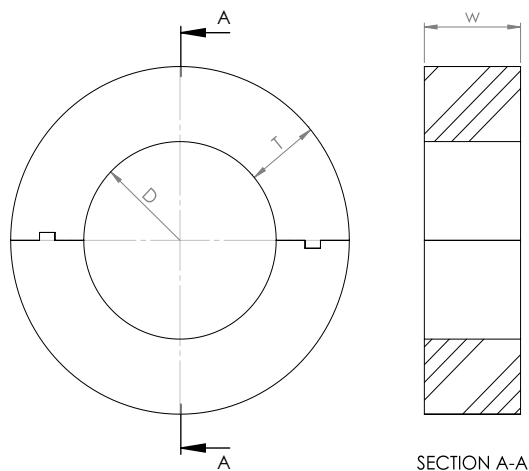
Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

Nominal Pipe Size		Pipe OD D	ICMS Part No	Width W	T = 1½" (38mm)	A (mm)	T = 2" (50mm)	A (mm)	T = 3" (75mm)	A (mm)
(inch)	DN	(mm)		(mm)	Art Number	A (mm)	Art Number	A (mm)	Art Number	A (mm)
1/2"	DN15	21.3	ZMCI-201-1	25	ZMCI201-123825	97	ZMCI201-125025	121	ZMCI201-127525	171
3/4"	DN20	26.7	ZMCI-201-2	25	ZMCI201-343825	103	ZMCI201-345025	127	ZMCI201-347525	177
1"	DN25	33.4	ZMCI-201-3	25	ZMCI201-13825	109	ZMCI201-15025	133	ZMCI201-17525	183
1 1/4"	DN32	42.1	ZMCI-201-4	25	ZMCI201-1143825	118	ZMCI201-1145025	142	ZMCI201-1147525	192
1 1/2"	DN40	48.2	ZMCI-201-5	25	ZMCI201-1123825	124	ZMCI201-1125025	148	ZMCI201-1127525	198
2"	DN50	60.3	ZMCI-201-6	25	ZMCI201-23825	136	ZMCI201-25025	160	ZMCI201-27525	210
2 1/2"	DN65	73	ZMCI-201-7	38	ZMCI201-2123838	149	ZMCI201-2125038	173	ZMCI201-2127538	223
3"	DN80	88.9	ZMCI-201-8	38	ZMCI201-33838	165	ZMCI201-35038	189	ZMCI201-37538	239
3 1/2"	DN90	101.6	ZMCI-201-9	38	ZMCI201-3123838	178	ZMCI201-3125038	202	ZMCI201-3127538	252
4"	DN100	114.3	ZMCI-201-10	38	ZMCI201-43838	190	ZMCI201-45038	214	ZMCI201-47538	264
5"	DN125	141.3	ZMCI-201-11	38	ZMCI201-53838	217	ZMCI201-55038	241	ZMCI201-57538	291
6"	DN150	168.3	ZMCI-201-12	50	ZMCI201-63850	244	ZMCI201-65050	268	ZMCI201-67550	318
8"	DN200	219.1	ZMCI-201-13	50	ZMCI201-83850	295	ZMCI201-85050	319	ZMCI201-87550	369
10"	DN250	273.1	ZMCI-201-14	50	ZMCI201-103850	349	ZMCI201-105050	373	ZMCI201-107550	423
12"	DN300	323.8	ZMCI-201-15	50	ZMCI201-123850	400	ZMCI201-125050	424	ZMCI201-127550	474
14"	DN350	355.6	ZMCI-201-16	50	ZMCI201-143850	432	ZMCI201-145050	456	ZMCI201-147550	506
16"	DN400	406.4	ZMCI-201-17	50	ZMCI201-163850	482	ZMCI201-165050	506	ZMCI201-167550	556
18"	DN450	457.2	ZMCI-201-18	50	ZMCI201-183850	533	ZMCI201-185050	557	ZMCI201-187550	607
20"	DN500	508	ZMCI-201-19	50	ZMCI201-203850	584	ZMCI201-205050	608	ZMCI201-207550	658
24"	DN600	609.6	ZMCI-201-20	50	ZMCI201-243850	686	ZMCI201-245050	710	ZMCI201-247550	760

Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

Rubber Support Insert for Copper Pipes (ZMCI-202)

Rubber Support Inserts are dimensionally accurate molded rubber pieces used at the support points of insulated copper pipes.



FEATURES

- Material Density: 1400 kg/m (Range: 1100–1600 kg/m)
- Thermal Conductivity: 0.16 W/m•°C
- Temperature Range: –20°C to +110°C
- System Compatibility: Engineered for use with ICMS Clevis Hangers, U-Straps, Plain Clamps, and U-bolts.

Copper Pipe (mm)	D	W	T = 13 mm		T = 19 mm		T = 25 mm		T = 32 mm		T = 38 mm		T = 50 mm	
			Art Number	A (mm)	Art Number	A (mm)	Art Number	A (mm)	Art Number	A (mm)	Art Number	A (mm)	Art Number	A (mm)
16	16	25	ZMCI202-161325	42	ZMCI202-161925	54	ZMCI202-162525	66	ZMCI202-163225	80	ZMCI202-163825	92	ZMCI202-165025	116
22	22	25	ZMCI202-221325	48	ZMCI202-221925	60	ZMCI202-222525	72	ZMCI202-223225	86	ZMCI202-223825	98	ZMCI202-225025	122
28	28	25	ZMCI202-281325	54	ZMCI202-281925	66	ZMCI202-282525	78	ZMCI202-283225	92	ZMCI202-283825	104	ZMCI202-285025	128
35	35	25	ZMCI202-351325	61	ZMCI202-351925	73	ZMCI202-352525	85	ZMCI202-353225	99	ZMCI202-353825	111	ZMCI202-355025	135
42	42	25	ZMCI202-421325	68	ZMCI202-421925	80	ZMCI202-422525	92	ZMCI202-423225	106	ZMCI202-423825	118	ZMCI202-425025	142
54	54	25	ZMCI202-541325	80	ZMCI202-541925	92	ZMCI202-542525	104	ZMCI202-543225	118	ZMCI202-543825	130	ZMCI202-545025	154
67	67	25	ZMCI202-671325	93	ZMCI202-671925	105	ZMCI202-672525	117	ZMCI202-673225	131	ZMCI202-673825	143	ZMCI202-675025	167
76	76	38	ZMCI202-761338	102	ZMCI202-761938	114	ZMCI202-762538	126	ZMCI202-763238	140	ZMCI202-763838	152	ZMCI202-765038	176
108	108	38	ZMCI202-1081338	134	ZMCI202-1081938	146	ZMCI202-1082538	158	ZMCI202-1083238	172	ZMCI202-1083838	184	ZMCI202-1085038	208
133	133	38	ZMCI202-1331338	159	ZMCI202-1331938	171	ZMCI202-1332538	183	ZMCI202-1333238	197	ZMCI202-1333838	209	ZMCI202-1335038	233
160	160	50	ZMCI202-1601350	186	ZMCI202-1601950	198	ZMCI202-1602550	210	ZMCI202-1603250	224	ZMCI202-1603850	236	ZMCI202-1605050	260

Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

Calcium Silicate Inserts (ZMCI-204)

ZMCI-204 calcium silicate inserts are designed for use at pipe support points to prevent insulation crushing and maintain thermal integrity. These rigid inserts are specifically engineered for high-temperature piping systems, ensuring load-bearing stability and excellent thermal resistance.

FEATURES

- High heat-resistant material maintains structural integrity and thermal performance in extreme temperature applications
- Low thermal conductivity prevents "cold bridging" and significantly reduces energy consumption.
- Sound insulating material helps dampen mechanical noise and high-frequency vibrations in the piping network.
- Low bulk density and low heat storage properties minimize thermal loss across support points.



PIPE SIZE (Inch)	DN (mm)	D (mm)	B (mm)	T: 25mm	T: 50mm	T: 75mm	T: 100mm
1/2"	15	21.3	600	ZMCI-2041225	ZMCI-2041250	ZMCI-2041275	ZMCI-20412100
3/4"	20	26.7	600	ZMCI-2043425	ZMCI-2043450	ZMCI-2043475	ZMCI-20434100
1"	25	33.4	600	ZMCI-204125	ZMCI-204150	ZMCI-204175	ZMCI-2041100
1 1/4"	32	42.1	600	ZMCI-20411425	ZMCI-20411450	ZMCI-20411475	ZMCI-204114100
1 1/2"	40	48.2	600	ZMCI-20411225	ZMCI-20411250	ZMCI-20411275	ZMCI-204112100
2"	50	60.3	600	ZMCI-204225	ZMCI-204250	ZMCI-204275	ZMCI-2042100
2 1/2"	65	73	600	ZMCI-20421225	ZMCI-20421250	ZMCI-20421275	ZMCI-204212100
3"	80	88.9	600	ZMCI-204325	ZMCI-204350	ZMCI-204375	ZMCI-2043100
4"	100	114.3	600	ZMCI-204425	ZMCI-204450	ZMCI-204475	ZMCI-2044100
6"	150	168.3	600	ZMCI-204625	ZMCI-204650	ZMCI-204675	ZMCI-2046100
8"	200	219.1	600	ZMCI-204825	ZMCI-204850	ZMCI-204875	ZMCI-2048100
10"	250	273	600	ZMCI-2041025	ZMCI-2041050	ZMCI-2041075	ZMCI-20410100
12"	300	323.8	600	ZMCI-2041225	ZMCI-2041250	ZMCI-2041275	ZMCI-20412100

Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

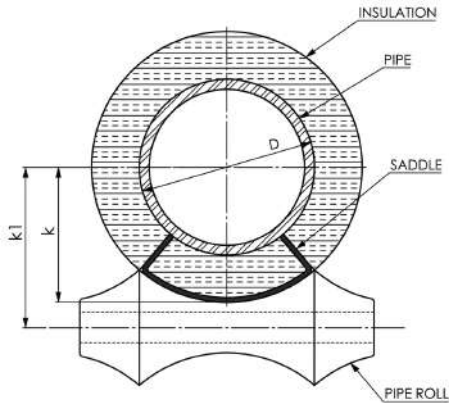
Pipe Covering Protection Saddle (ZMCI-205)

Engineered for use with insulated pipe lines, these protection saddles ensure the weight of the pipe is distributed evenly across the insulation to prevent crushing and moisture barrier failure at the support point

- Recommended for use with all types of insulated pipes to maintain thermal integrity at the support.
- Protects the external jacket and pipe insulation from damage caused by concentrated loads at support points.
- Standard length of 300 mm ensures a large surface area for load distribution.
- Manufactured from high-grade structural steel for maximum durability and strength
- Compatible with both roller chairs and standard pipe hangers to allow for thermal movement.

Material Grades: Carbon Steel (Stainless Steel available on request).

Finish : Pre Galvanised/Electro galvanised, Hot Dip Galvanized



Part No.	D (mm)	D (Inch)	k (mm)	k1 (mm)	Insulation Thk. (mm)
ZMCI-205-25-25	33.4	1"	47	62	25
ZMCI-205-25-50	33.4	1"	73	62	50
ZMCI-205-40-25	48	1 1/2"	54	72	25
ZMCI-205-40-50	48	1 1/2"	80	102	50
ZMCI-205-50-25	60.3	2"	60	80	25
ZMCI-205-50-50	60.3	2"	86	111	50
ZMCI-205-75-50	88.9	3"	103	131	50
ZMCI-205-100-50	114.3	4"	115	145	50
ZMCI-205-150-50	168.3	6"	142	178	50
ZMCI-205-150-75	168.3	6"	167	209	75

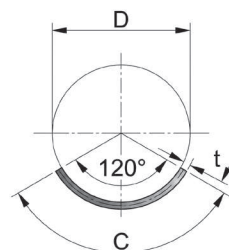
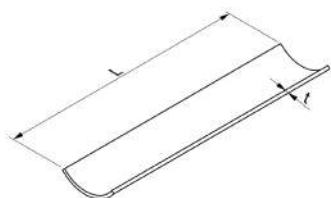
Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

Insulation Protection Shield (ZMCI-206)

The ZMCIPS Series is specifically designed for use in the suspension of insulated pipe lines to protect the insulation from being crushed by the hanger. It is installed between the hanger surface and the insulated pipe to ensure the weight of the system is distributed evenly, preventing the permanent deformation or crushing of the insulation material.

Material Grades: Carbon Steel (Stainless Steel available on request).

Finish : Pre Galvanised/Electro galvanised, Hot Dip Galvanized



Part No	Pipe Outer Dia D (mm)	Length L (mm)	Thickness t (mm)	Curved Length C (mm)
ZMCI 206- 20	20	300	1.5	21
ZMCI 206- 25	25	300	1.5	26
ZMCI 206- 32	32	300	1.5	33
ZMCI 206- 40	40	300	1.5	42
ZMCI 206- 50	50	300	1.5	52
ZMCI 206- 63	63	300	1.5	66
ZMCI 206- 75	75	300	1.5	79
ZMCI 206- 90	90	300	1.5	94
ZMCI 206- 110	110	300	1.5	115
ZMCI 206- 125	125	300	1.5	131
ZMCI 206- 140	140	300	1.5	147
ZMCI 206- 160	160	300	1.5	167
ZMCI 206- 200	200	300	1.5	209
ZMCI 206- 225	225	457	1.5	236
ZMCI 206- 250	250	457	2	262
ZMCI 206- 280	280	457	2	293
ZMCI 206- 315	315	610	2	330
ZMCI 206- 355	355	610	2	372
ZMCI 206- 400	400	610	2	419
ZMCI 206- 450	450	610	2.5	471
ZMCI 206- 500	500	610	2.5	523
ZMCI 206- 630	630	610	2.5	659
ZMCI 206- 710	710	610	2.5	743
ZMCI 206- 800	800	610	2.5	837
ZMCI 206- 900	900	610	3	942
ZMCI 206- 1000	1000	610	3	1047
ZMCI 206- 1200	1200	610	3	1256

Custom dimensions available for various pipe sizes and insulation thicknesses using the same part numbering format.

CHANNEL SUPPORT SYSTEMS

Channel support systems form the structural backbone of modern mechanical, electrical, and plumbing installations. Also known as strut or framing systems, they provide a flexible, bolt-together framework that can be adapted to virtually any site condition — eliminating the need for custom fabrication and reducing installation time significantly.

ICMS channel support systems are manufactured from high-quality steel in single and double channel profiles, available in standard and heavy-duty sections to suit a wide range of load requirements. The system is designed for modularity — channels, brackets, cantilevers, hangers, and joining components connect seamlessly, allowing engineers and contractors to build complex support assemblies quickly and efficiently on site.

Our range includes slotted channels, cantilever arms, trapeze hanger kits, wall and ceiling brackets, I-supports, and a full suite of accessory fittings. All components are compatible with our anchor and fastener range, making ICMS a single-source solution for complete support system installation.

Available in Electro-Galvanized, Hot-Dip Galvanized, and Stainless Steel finishes, ICMS channel support systems are suitable for the harshest industrial and outdoor environments, and are fully compliant with applicable international standards.



Channel Support Systems

Slotted Channels

Slotted channels (Strut Channels) are standardized structural systems designed for maximum flexibility across MEP (Mechanical, Electrical, and Plumbing), construction, and structural steel frameworks.

ICMS channels are available as single channels (C-shaped profiles for light-to-medium loads) or double channels (back-to-back profiles), which significantly increase the moment of inertia and enable higher load capacities and longer spans

Also available as plain channels under the codes ZS100, ZS200, ZS300, ZS400, ZS500, ZS600, ZS700, ZS800, ZS900, and ZS1000.

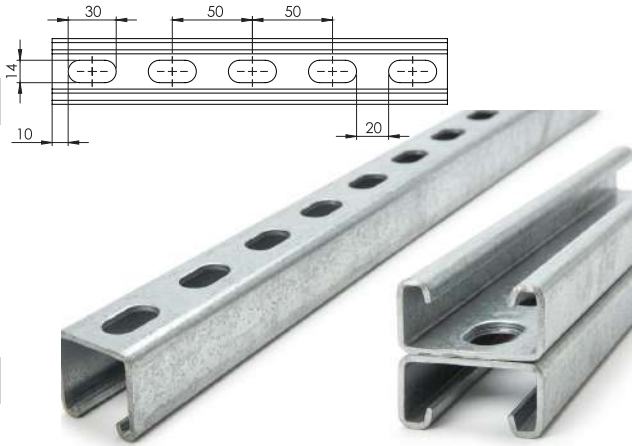
Material & Finish Specifications

MATERIAL

- (HR) : Hot rolled Steel sheet : HR Steel Grade S235JR
- (CR) : Cold rolled Steel sheet : EN10130-DC01/ SPCC SD JIS 43141
- (AL) : Aluminum : ASTM B209
- (SS) : Stainless Steel : ASTM A240 (Type 304 & 316)

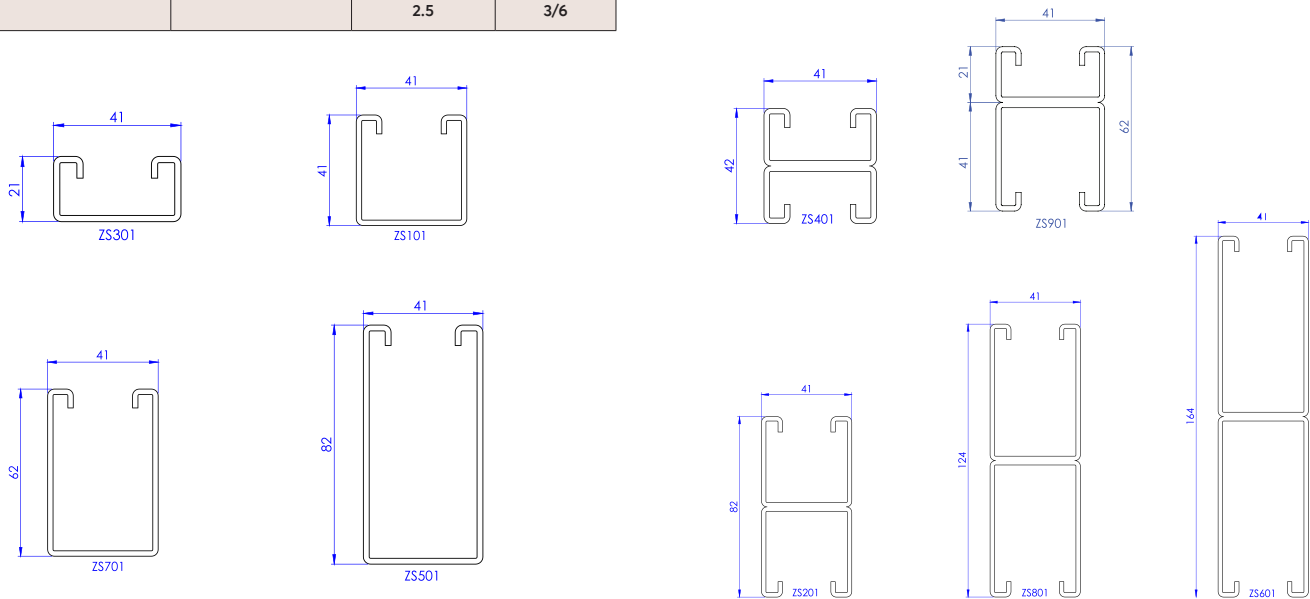
FINISHES

Pre-Galvanized (PG), Hot Dip Galvanized (HDG), Zinc Plated, and Powder Coated.



Single Channels			
Item	Art number	Thickness (mm)	Length (m)
Slotted Channel 41x21	ZS301	1	3
		1.2	3
		1.5	3
		2	3/6
		2.5	3/6
Slotted Channel 41x41	ZS101	1.3	3
		1.5	3
		2	3/6
		2.5	3/6
Slotted Channel 41x62	ZS701	2	3/6
		2.5	3/6
Slotted Channel 41X82	ZS501	2	3/6
		2.5	3/6

Double Channels			
Item	Art number	Thickness (mm)	Length (m)
Slotted Double Channel 41x41	ZS401	2	3/6
		2.5	3/6
Slotted Double Channel 41x62	ZS901	2	3/6
		2.5	3/6
Slotted Double Channel 41x82	ZS201	2	3/6
		2.5	3/6
Slotted Double Channel 41X124	ZS801	2	3/6
		2.5	3/6
	ZS 1001	2	3/6
		2.5	3/6
Slotted Double Channel 41X164	ZS 601	2	3/6
		2.5	3/6



Also available in sizes 27/18, 38/40 and other custom sizes upon request.

ZETA Brackets are fabricated from standard Channels welded to Back plates.
On ordering specify type, size and finishing in addition to part no.

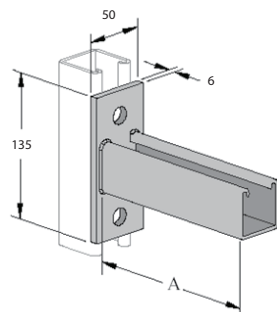
Material :
HR Sheet / Flat Bar S235 JR / 275JR
(AL) : Aluminum :
In accordance to ASTM B209
(SS) : Stainless Steel :
to ASTM A240 (Type 304 & 316)

Finishes :
(HDG): Hot Dip Galvanized in Acc. To ASTM A123.
(BS EN ISO 1461)
(HP) : Hot Dip Galvanized & Powder Coated
Zinc Plating :ASTM B633

Flat Base Single Channel Cantilever

ZB 101

Channel section is made of ZS 100
Safety Factor : 2.5

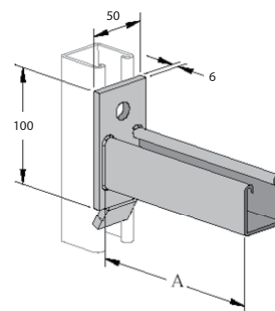


Part No.	Size A"(mm)	Uniform Load Lb(KN)	Weight/Pc Lbs (Kg)
ZB101-6	6" (152.4)	1920(8.5)	1.5 (0.69)
ZB101-9	9" (228.6)	1280(5.7)	1.9 (0.88)
ZB101-12	12" (304.8)	960 (4.3)	2.3 (1.05)
ZB101-14	14" (355.6)	800 (3.6)	2.7 (1.24)
ZB101-16	16" (406.4)	730 (3.2)	3.1 (1.42)
ZB101-18	18" (457.2)	640 (2.8)	3.4 (1.56)
ZB101-24	24" (609.6)	480 (2.1)	4.5 (2.04)
ZB101-30	30" (762.0)	315 (1.4)	5.4 (2.42)

Guided Base single channel cantilever

ZB 102

Channel section is made of ZS 100
Safety Factor : 2.5

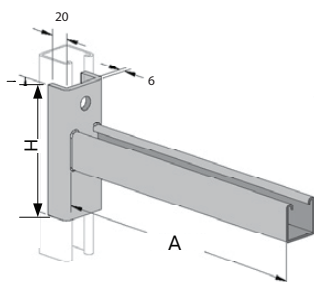


PartNo.	Size A"(mm)	Uniform Load Lb(KN)	Weight/Rc Lbs(Kg)
ZB102-6	6" (152.4)	1182(5.3)	1.4(0.65)
ZB102-9	9" (228.6)	670(2.98)	1.8(0.82)
ZB102-12	12" (304.8)	610(2.7)	2.2(1.0)
ZB102-14	14" (355.6)	560(2.49)	2.6(1.2)
ZB102-16	16" (406.4)	470(2.1)	3.0(1.4)
ZB102-18	18" (457.2)	410 (1.8)	3.3(1.5)
ZB102-24	24" (609.6)	292 (1.3)	4.4(2.0)

Wraparound Base Single Channel Cantilever

ZB 103

Channel section is made of ZS 100
Safety Factor : 2.5

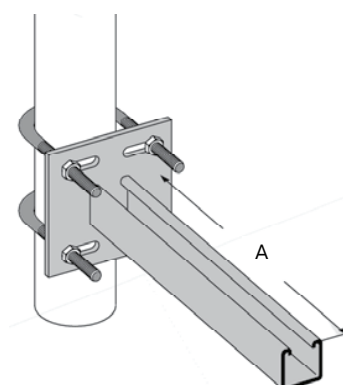


PartNo.	Size A"(mm)	Uniform Load Lb(KN)	Weight/Pc Lbs(Kg)
ZB103-6	6" (152.4)	1600(7.12)	1.9 (0.86)
ZB103-9	9" (228.6)	1200(5.34)	2.4 (1.09)
ZB103-12	12" (304.8)	800(3.56)	2.9 (2.32)
ZB103-14	14" (355.6)	720(3.20)	3.3 (1.50)
ZB103-16	16" (406.4)	650(2.89)	3.7 (1.68)
ZB103-18	18" (457.2)	600(2.67)	4.3 (1.95)
ZB103-24	24" (609.6)	450(2.00)	5.3 (2.40)

Pipe Mounted Single Channel Cantilever

ZB 104

Channel section is made of ZS 100
Safety Factor : 2.5
U-Bolt to be order separately as per pipe size.

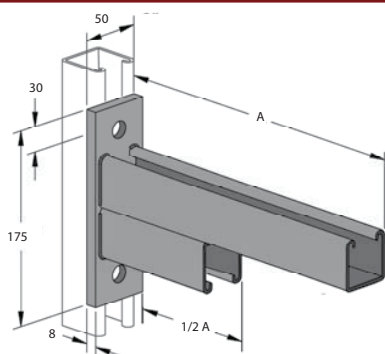


Part No.	Length A	Load Rating lbs. (KN)
ZB104-09	9" (228.6)	800 (3.55)
ZB104-12	12" (304.8)	800 (3.55)
ZB104-18	18" (457.2)	450 (2.00)
ZB104-24	24" (609.6)	450 (2.00)

Braced Channel Cantilever

ZB 105

Channel section is made of ZS 200
Safety Factor : 2.5

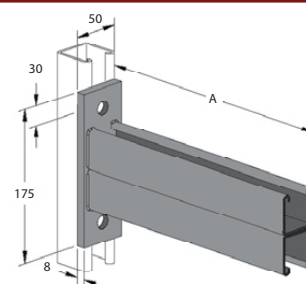


Part No.	Size	A"(mm)	Uniform Load Lb(KN)	Weight/Pc. Lbs (Kg)
ZB 105-12	12"	(304.8)	12 20(5.42)	4.4(2.02)
ZB 105-18	18"	(457.2)	960(4.26)	6.1(2.79)
ZB 105-24	24"	(609.6)	710(3.15)	7.7(3.56)
ZB 105-30	30"	(762.0)	540(2.40)	9.3(4.25)
ZB 105-36	36"	(914.4)	420(1.86)	11.0(5.0 4)

Flat Base Double Channel Cantilever

ZB 106

Channel section is made of ZS 200
Safety Factor : 2.5

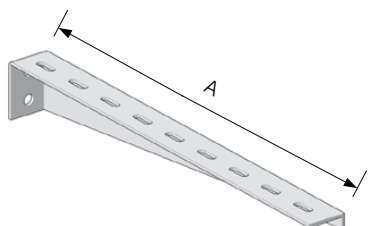


Part No.	Size	A"(mm)	Uniform Load Lb(KN)	Weight/ Pc. Lbs (Kg)
ZB 106-6	6"	(152.4)	250 0(1.1)	2.1(0.96)
ZB 106-9	9"	(228.6)	210 0(9.33)	3.4(1.5)
ZB 106-12	12"	(304.8)	166 0(7.37)	4.8(2.2)
ZB 106-18	18"	(457.2)	110 0(4.88)	6.7(3.1)
ZB 106-24	24"	(609.6)	840(3.72)	8.6(3.9)
ZB 106-30	30"	(762.0)	665(2.95)	10.4(4.7)
ZB 106-36	36"	(914.4)	550(2.44)	12.4(5.6)
ZB 106-42	42"	(1066.8)	465(2.06)	14.4(6.5)

Shelf Bracket

ZB 107

Safety Factor: 2.5
Thickness : 2.6mm
For mounting on concrete walls and channels.

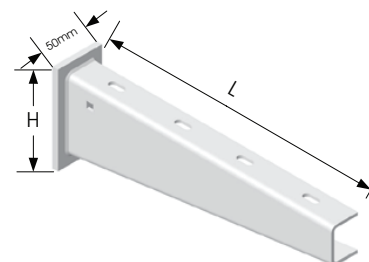


Part No.	Size A	Uniform Load lbs. (KN)	Weight /Pc. Lbs. (Kg)
ZB 107-6	6" (152.4)	352 (1.57)	0.6 (0.27)
ZB 107-9	9" (228.6)	330 (1.47)	0.9 (0.40)
ZB 107-12	12" (304.8)	308 (1.37)	1.5 (0.67)
ZB 107-18	18" (457.2)	242 (1.08)	2.5 (1.11)
ZB 107-24	24" (609.6)	220 (0.98)	3.9 (1.74)
ZB 107-30	30" (762.0)	176 (0.78)	5.4 (2.4)

Wall Mounted Bracket

ZB 108

Load Rating:
674 lbs (3.0 KN)
Safety Factor: 2.5
For mounting on concrete walls and channels.

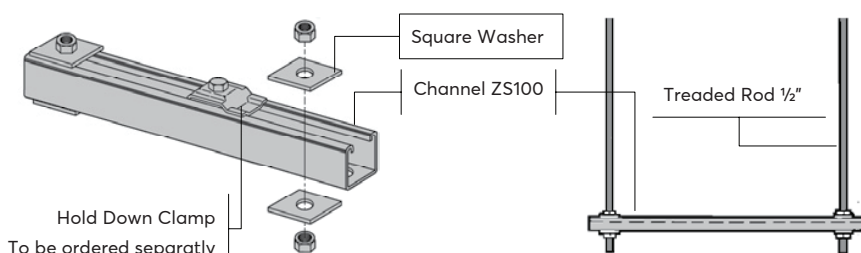


Part No.	Length L(mm)	Height H(mm)	Weight /Pc lbs. (Kg)
ZB 108-01	110	60	0.49 (0.22)
ZB 108-02	160	65	0.74 (0.33)
ZB 108-03		210	70 0.90 (0.40)
ZB 108-04		310	80 1.42 (0.63)
ZB 108-05		410	80 2.00 (0.89)
ZB 108-06		510	90 2.92 (1.30)
ZB 108-07	610	100	3.51 (1.56)
ZB 108-08		910	195 12.36 (5.50)

Trapeze Hanger Support Kit

ZB 109

Trapeze kits provide the components required for a single trapeze support in one package. Each kit include:
a- Slotted Channel cut to required length
b- 4 pcs. 1/2" Hex. nut.
c- 4 pcs. square washer
1/2" threaded rod to be ordered separately.
On order, Specify material and Finishing.



I-Support

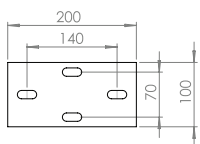
On ordering specify type, size and finishing in addition to part no.

I-Support With Plate

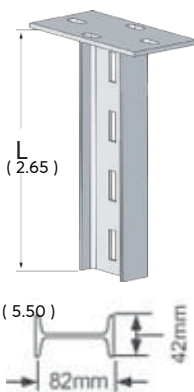
ZZ 101

Mounted on horizontal surface and steel girders.

Load rating:
1124 lbs (5KN) for L=600mm



Part No .	Length L(mm)	Weight /Pc lbs. (Kg)
ZZ 101-20	200	4.67 (2.08)
ZZ 101-30	300	5.96
ZZ 101-40	400	7.24 (3.22)
ZZ 101-50	500	8.52 (3.79)
ZZ 101-60	600	9.80 (4.36)
ZZ 101-70	700	11.08 (4.93)
ZZ 101-80	800	12.36 (5.50)
ZZ 101-90	900	13.64 (6.07)
ZZ 101-100	1000	14.92 (6.64)
Increments of 100mm		
ZZ 101-200	2000	27.73 (12.34)



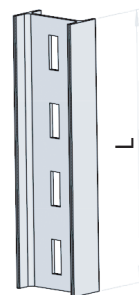
I-Support

ZZ 102

Mounted on horizontal and inclined concrete surface and steel girders.

Load rating: 1124 lbs (5KN) for L=600mm

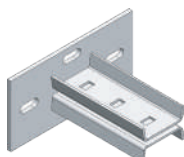
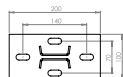
Part No .	Length L(mm)	Weight /Pc lbs. (Kg)
ZZ 102-30	300	3.84 (1.71)
ZZ 102-40	400	5.12 (2.28)
ZZ 102-50	500	6.40 (2.85)
ZZ 102-60	600	7.69 (3.42)
ZZ 102-70	700	8.97 (3.99)
ZZ 102-80	800	10.25 (4.56)
ZZ 102-90	900	11.53 (5.13)
ZZ 102-100	1000	12.81 (5.70)
ZZ 102-150	1500	19.21 (8.55)
ZZ 102-200	2000	27.73 (12.34)
ZZ 102-300	3000	38.43 (17.10)
ZZ 102-600	6000	76.85 (34.20)



Head Plates

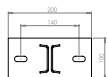
ZZ 103

Wt. : 3.48 lbs (1.55 Kg.)



ZZ 104

Wt. : 3.66 lbs (1.63 Kg.)



Mounting Clamps

ZZ 105



Wt. : 0.72 lbs (0.32 Kg.)

ZZ 106



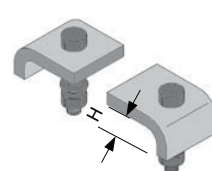
Wt. : 0.52 lbs (0.23 Kg.)

ZZ 107



Wt. : 0.51 lbs (0.22 Kg.)

ZZ 108



H= 10,15,20 & 25 mm
Wt. : 1.84 lbs (0.82 Kg.)

I-Support Joints

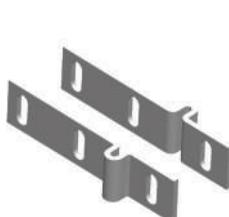
ZZ 109

Wt.:1.96 lbs (0.87 Kg.)



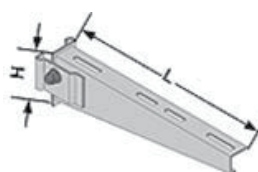
ZZ 110

Wt.:1.98 lbs (0.88 Kg.)



I-Support Bracket

Mounted on I-Support and height is fully adjustable .
Load rating: 674 lbs (3KN)



Part no .	Length L(mm)	Heigh H(mm)	Weight/Pc lbs (Kg)
ZZ 111 -01	110	60	0.67 (0.30)
ZZ 111 -02	160	65	0.83 (0.37)
ZZ 111 -03	210	70	0.99 (0.44)
ZZ 111 -04	310	80	1.75 (0.78)
ZZ 111 -05	410	80	2.25 (1.00)
ZZ 111 -06	510	90	3.15 (1.40)
ZZ 111 -07	610	100	3.78 (1.68)

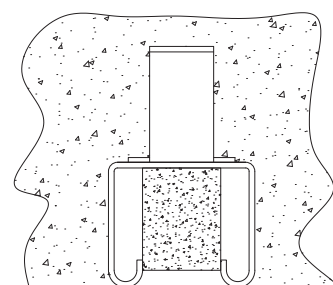
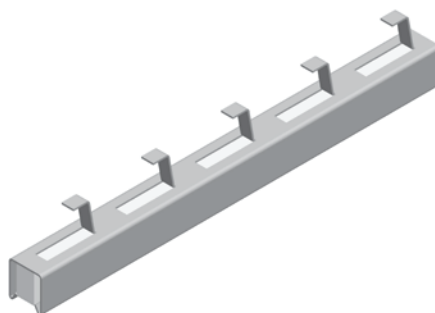
ZETA TRAY offers wide selection of concrete inserts for use in concrete ceiling, walls and floors. Concrete inserts are manufactured from standard channels with styrene foam filler to stop seepage of concrete into cavity of the channel.

Standard length available is 10 ft with tolerance of 3/16" in length. Other sizes available in any length from 10" to 20 ft. Concrete inserts are available in Hot dip galvanized steel to ASTM A123 (EN ISO 1461) and Stainless Steel 316 or 304 .

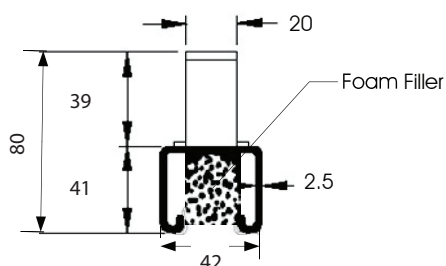
Type : ZC

Continuous Concrete Inserts

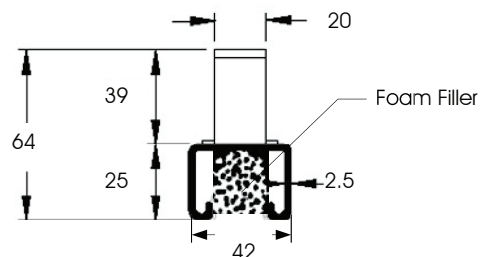
Concrete inserts to be nailed or anchored every 16-24" to forms.
Recommended Load :
For ZC 11 2000 lbs (8.9)KN/Foot
For ZC 22 1500 lbs (6.7)KN/Foot
With safety factor of 3.
Loading considered in concrete strength 3000 psi



ZC 11



ZC 22



Part No.	Length	Weight/Pc. Lbs (Kg)
ZC 11-12	12" (305)	2.2(1.0)
ZC 11-20	20" (508)	3.5(1.6)
ZC 11-40	40"(1016)	6.8(3.1)
ZC 11-60	60"(1524)	10.1(4.6)
ZC 11-84	84"(2133)	14.1(6.1)
ZC 11-120	120"(3048)	20.1(9.1)

Part No.	Length	Weight/Pc. Lbs (Kg)
ZC 22-12	12" (305)	1.6(0.7)
ZC 22-20	20" (508)	2.4(1.1)
ZC 22-40	40"(1016)	4.6(2.1)
ZC 22-60	60"(1524)	6.9(3.1)
ZC 22-84	84"(2133)	9.6(4.3)
ZC 22-120	120"(3048)	13.7(6.2)

Other Sizes are available upon request

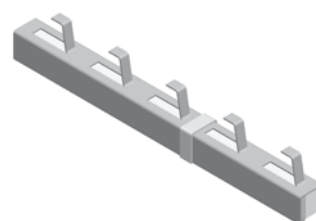
Accessories

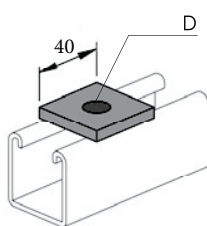
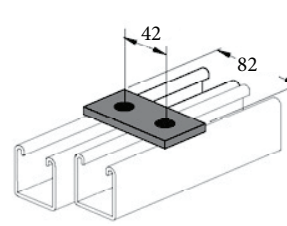
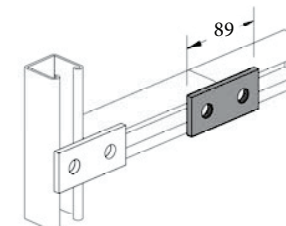
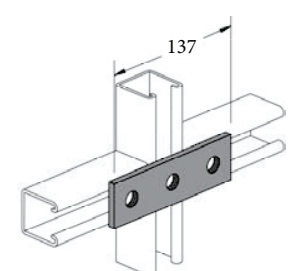
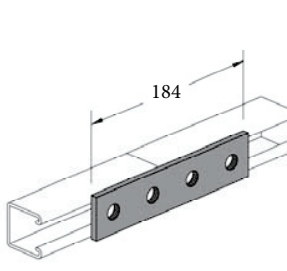
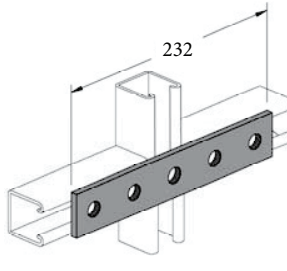
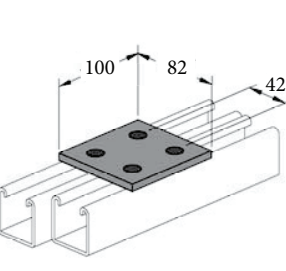
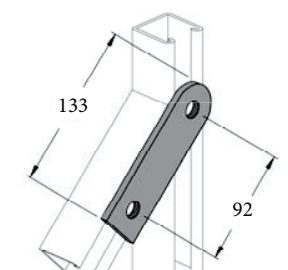
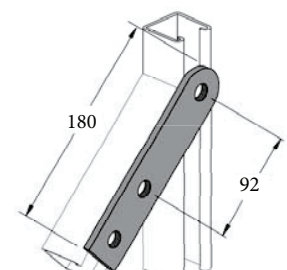
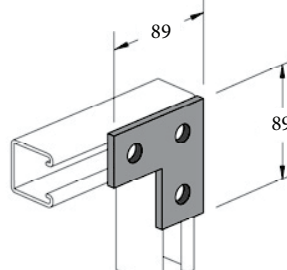
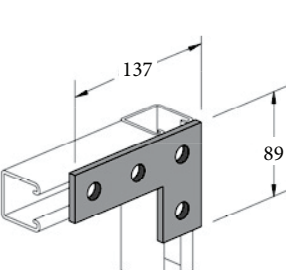
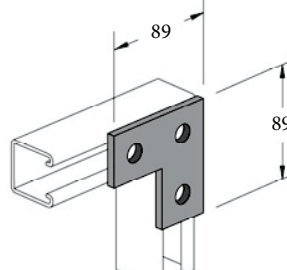
Part No.	Channel Size
EC - 41	41 x 41
EC - 21	41 x 21



PVC End Cap

Concrete Insert Joint



ZF-200			Square Flat Plate			ZF-201			Two Hole Flat Plate			ZF-202			Two Hole Flat Plate	
						Weight: 0.36 lbs. (0.16 Kg.)						Weight: 0.38 lbs. (0.17 Kg.)				
Part no			D													
in			(mm)													
Weight			lbs. (kg.)													
ZF-200-A			3/8" (9.5)													
ZF-200-B			7/16" (11.1)													
ZF-200-C			9/16" (14.2)													
ZF-200-D			11/16" (17.4)													
ZF-200-E			13/16" (20.6)													
ZF-203			Three Hole Flat Plate			ZF-204			Four Hole Flat Plate			ZF-205			Five Hole Flat Plate	
Weight: 0.55 lbs. (0.25 Kg.)						Weight: 0.75 lbs. (0.34 Kg.)						Weight: 0.95 lbs. (0.43 Kg.)				
																
ZF-206			Four Hole Square Plate			ZF-207			Two Hole Swivel Plate			ZF-208			Three Hole Swivel Plate	
Weight: 0.72 lbs. (0.33 Kg.)						Weight: 0.55 lbs. (0.25 Kg.)						Weight: 0.75 lbs. (0.34 Kg.)				
																
ZF-209			Three Hole Corner Plate			ZF-210			Four Hole Corner Plate			ZF-209			Three Hole Corner Plate	
Weight: 0.69 lbs. (0.32 Kg.)						Weight: 0.77 lbs. (0.35 Kg.)						Weight: 0.69 lbs. (0.32 Kg.)				
																

Design Data :

All ZETA Fittings (except indicated)
follow the following dimensions:

Material Width: 40 mm

Material Thickness: 6 mm

Hole Size: 14 mm

Hole Spacing (C-C): 48 mm

Hole Spacing From
end of fittings: 20 mm

Material :

HR Sheet / Flat Bar - S235 JR / S275 JR

(PG) Pregalvanized Steel: in accordance to ASTM A-653

(AL) Aluminum : In accordance to ASTM B209

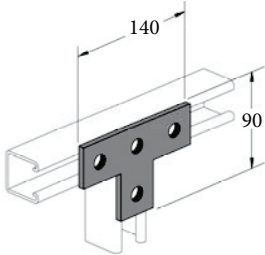
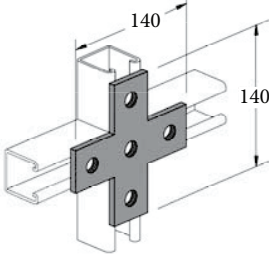
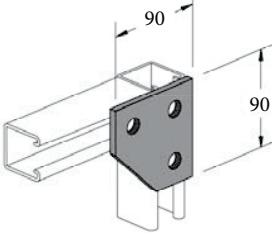
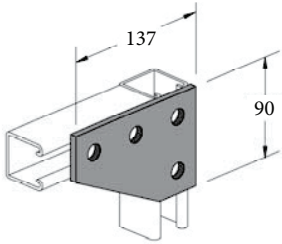
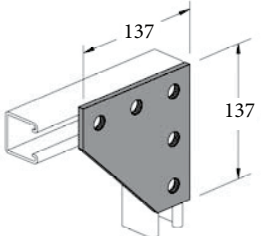
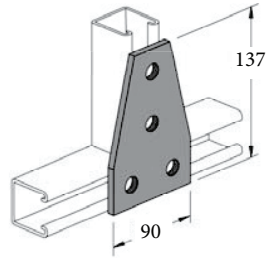
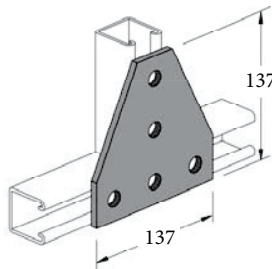
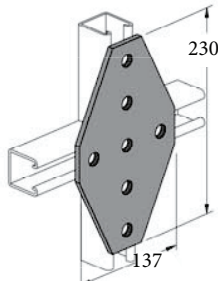
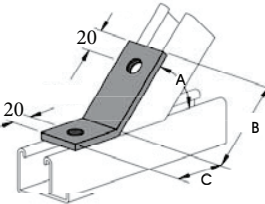
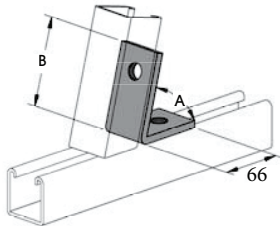
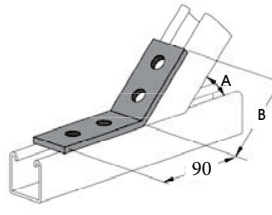
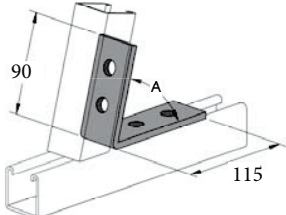
(SS) Stainless Steel : to ASTM A240 (Type 304 & 316)

Finishes :

(HDG) Hot Dip Galvanized To ASTM A123 (BS EN 1461)

(ZP) Zinc Plating To ASTM B633.

(HP) Hot Dip Galvanized & Powder Coated

ZF-211 Tee Flat Plate Weight: 0.78 lbs. (0.35 Kg.) 	ZF-212 Cross Flat Plate Weight: 1.02 lbs. (0.46 Kg.) 	ZF-213 Tree Hole Angle Plate Weight: 0.68 lbs. (0.31 Kg.) 	ZF-214 Four Hole Angle Plate Weight: 0.72 lbs. (0.33 Kg.) 
ZF-215 Five Hole Corner Plate Weight: 1.46 lbs. (0.66 Kg.) 	ZF-216 Four Hole Connector Plate Weight: 1.02 lbs. (0.46 Kg.) 	ZF-217 Five Hole Connector Plate Weight: 1.41 lbs. (0.64 Kg.) 	ZF-218 Seven Hole Connector Plate Weight: 2.32 lbs. (1.05 Kg.) 
ZF-301 Two Hole Open Angle Plate Weight: 0.55 lbs. (0.25 Kg.)  A : From 15 to 75 Deg.	ZF-302 Two Hole Closed Angle Plate Weight: 0.55 lbs. (0.25 Kg.)  A : From 15 to 75 Deg.	ZF-303 Four Hole Open Angle Plate Weight: 0.73 lbs. (0.33 Kg.)  A : From 15 to 75 Deg.	ZF-304 Four Hole Closed Angle Plate Weight: 0.73 lbs. (0.33 Kg.)  A : From 15 to 75 Deg.

Design Data :

All ZETA Fittings (except indicated) follow the following dimensions:

Material Width: 40 mm
Material Thickness: 6 mm
Hole Size: 14 mm
Hole Spacing (C-C): 48 mm
Hole Spacing From end of fittings: 20 mm

Material :

HR Sheet / Flat Bar - S235 JR / S275 JR

(PG) Pregalvanized Steel: in accordance to ASTM A-653

(AL) Aluminum : In accordance to ASTM B209

(SS) Stainless Steel : to ASTM A240 (Type 304 & 316)

Finishes :

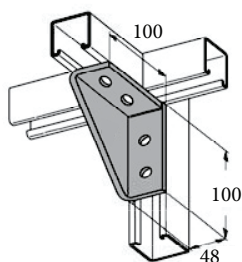
(HDG) Hot Dip Galvanized To ASTM A123 (BS EN 1461)

(ZP) Zinc Plating To ASTM B633.

(HP) Hot Dip Galvanized & Powder Coated

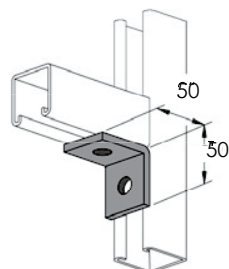
ZF-401 One Hole Angle Connector

Weight: 1.32 lbs. (0.56 Kg.)



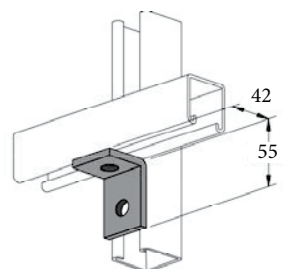
ZF-402 Two Hole Angle Connector

Weight: 0.36 lbs. (0.16 Kg.)



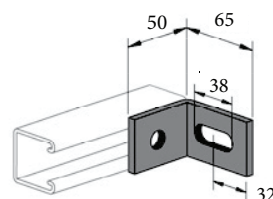
ZF-403 Two Hole Angle Connector

Weight: 0.36 lbs. (0.16 Kg.)



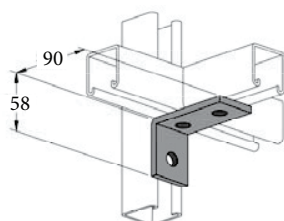
ZF-404 Two Hole Adj. Angle Connector

Weight: 0.38 lbs. (0.17 Kg.)



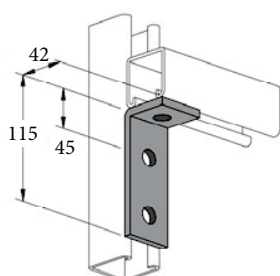
ZF-405 Three Hole Angle Connector

Weight: 0.55 lbs. (0.25 Kg.)



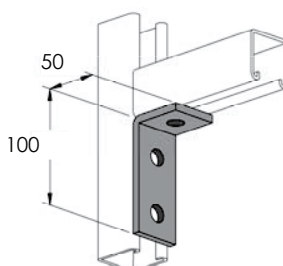
ZF-406 Three Hole Angle Connector

Weight: 0.55 lbs. (0.25 Kg.)



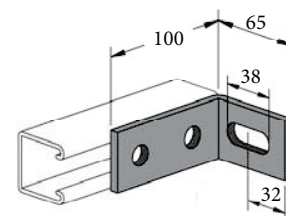
ZF-407 Three Hole Angle Connector

Weight: 0.55 lbs. (0.25 Kg.)



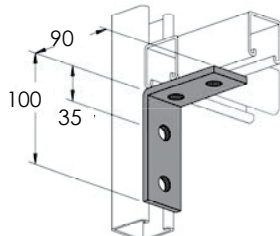
ZF-408 Three Hole Adj. Angle Connector

Weight: 0.66 lbs. (0.30 Kg.)



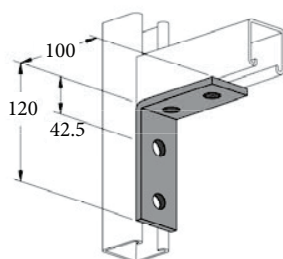
ZF-409 Four Hole Angle Connector

Weight: 0.76 lbs. (0.34 Kg.)



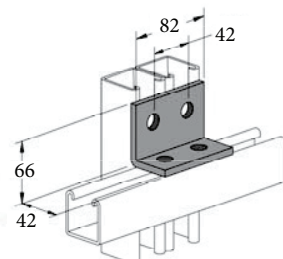
ZF-410 Four Hole Angle Connector

Weight: 0.76 lbs. (0.34 Kg.)



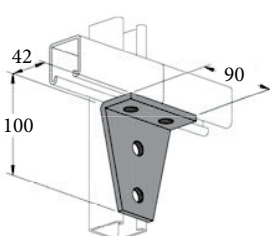
ZF-411 Four Hole Corner Plate

Weight: 0.71 lbs. (0.32 Kg.)



ZF-412 Four Hole Angle Plate

Weight: 1.00 lbs. (0.45 Kg.)



Design Data :

All ZETA Fittings (except indicated)
follow the following dimensions:

Material Width: 40 mm

Material Thickness: 6 mm

Hole Size: 14 mm

Hole Spacing (C-C): 48 mm

Hole Spacing From

end of fittings: 20 mm

Material :

HR Sheet / Flat Bar - S235 JR / S275 JR

(PG) Pregalvanized Steel: in accordance to ASTM A-653

(AL) Aluminum : In accordance to ASTM B209

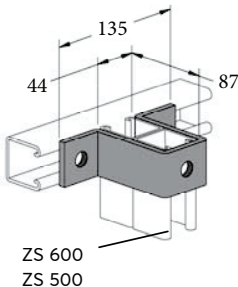
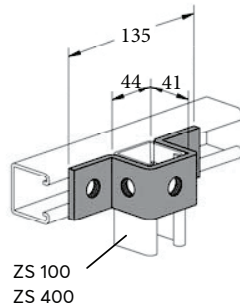
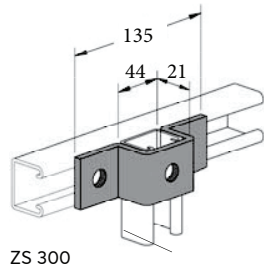
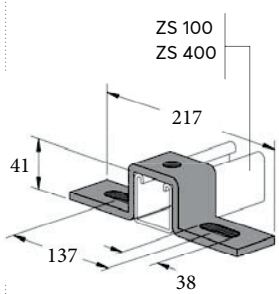
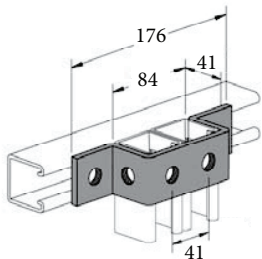
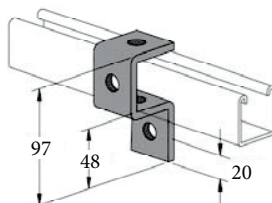
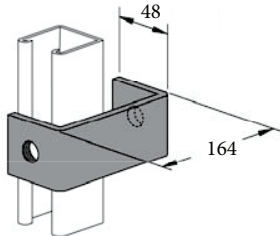
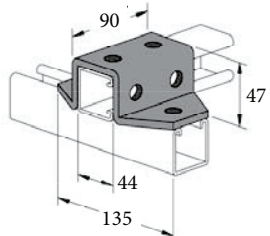
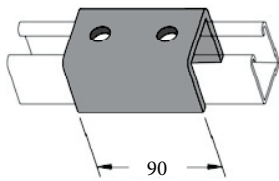
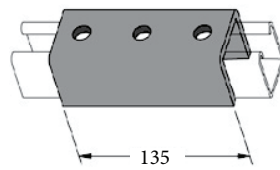
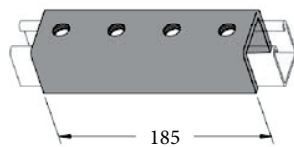
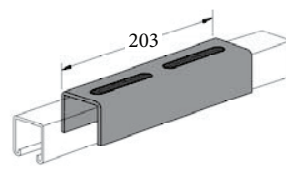
(SS) Stainless Steel : to ASTM A240 (Type 304 & 316)

Finishes :

(HDG) Hot Dip Galvanized To ASTM A123 (BS EN 1461)

(ZP) Zinc Plating To ASTM B633.

(HP) Hot Dip Galvanized & Powder Coated

ZF-501 U- Connector Weight: 1.26 lbs. (0.57 Kg.) 	ZF-502 U- Connector Weight: 0.84 lbs. (0.38 Kg.) 	ZF-503 U- Connector Weight: 0.68 lbs. (0.31 Kg.) 	ZF-504 Adjustable U- Connector Weight: 1.22 lbs. (0.55 Kg.) 
ZF-505 U- Connector Weight: 1.02 lbs. (0.46 Kg.) 	ZF-506 U- Connector Weight: 0.75 lbs. (0.34 Kg.) 	ZF-507 U-Hanger Weight: 0.98 lbs. (0.49 Kg.) 	ZF-508 U- Connector Weight: 1.70 lbs. (0.77 Kg.) 
ZF-509 Two Hole U- Connector Weight: 1.20 lbs. (0.54 Kg.) 	ZF-510 Three Hole U- Connector Weight: 1.95 lbs. (0.88 Kg.) 	ZF-511 Four Hole U- Connector Weight: 2.60 lbs. (1.18 Kg.) 	ZF-512 Two Slots U- Connector Weight: 1.97 lbs. (0.89 Kg.) 

Design Data :

All ZETA Fittings (except indicated) follow the following dimensions:

Material Width:	40 mm
Material Thickness:	6 mm
Hole Size:	14 mm
Hole Spacing (C-C):	48 mm
Hole Spacing From end of fittings:	20 mm

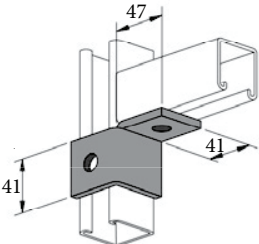
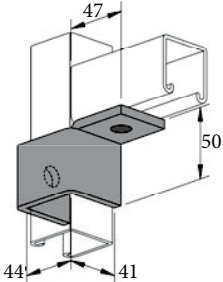
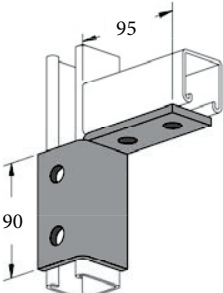
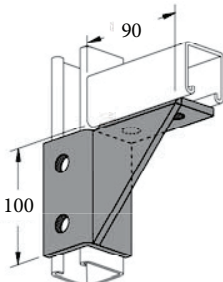
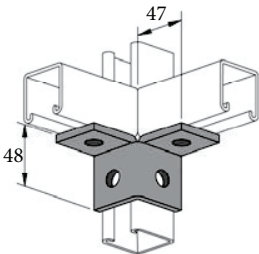
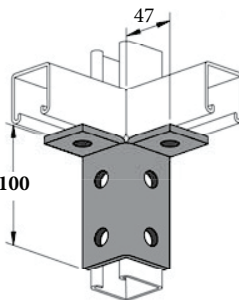
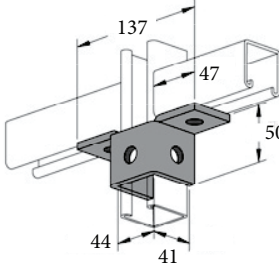
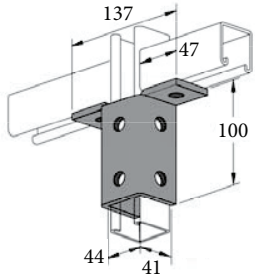
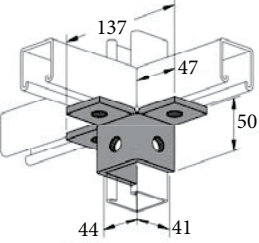
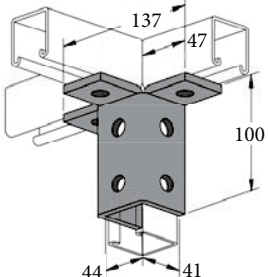
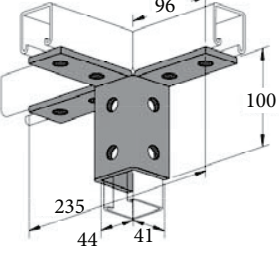
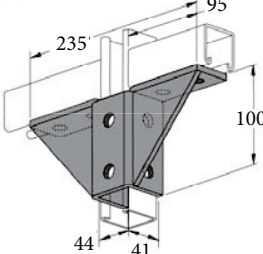
Material :

HR Sheet / Flat Bar - S235 JR / S275 JR

(PG) Pregalvanized Steel:	in accordance to ASTM A-653
(AL) Aluminum :	In accordance to ASTM B209
(SS) Stainless Steel :	to ASTM A240 (Type 304 & 316)

Finishes :

(HDG) Hot Dip Galvanized To ASTM A123 (BS EN 1461)
(ZP) Zinc Plating To ASTM B633.
(HP) Hot Dip Galvanized & Powder Coated

ZF-601 3- Hole One sided Connector Weight: 0.54 lbs. (0.24 Kg.) 	ZF-602 Wraparound One Sided Weight: 0.77 lbs. (0.35 Kg.) 	ZF-603 4-Holes One Sided Connector Weight: 1.20 lbs. (0.54 Kg.) 	ZF-604 4-Holes Gusset Connector Weight: 1.72 lbs. (0.78 Kg.) 
ZF-605 4- Hole Two Sided Connector Weight: 0.74 lbs. (0.34 Kg.) 	ZF-606 6-Holes Two Sided Connector Weight: 1.12 lbs. (0.51 Kg.) 	ZF-607 5-Holes Two Sided Connector Weight: 0.93 lbs. (0.42 Kg.) 	ZF-608 8-Hdes Two Sided Connector Weight: 1.44 lbs. (0.65 Kg.) 
ZF-609 6-Holes Three Sided Connector Weight: 1.10 lbs. (0.50 Kg.) 	ZF-610 9-Holes Three Sided Connector Weight: 1.72 lbs. (0.78 Kg.) 	ZF-611 12-Holes Three Sided Connector Weight: 2.26 lbs. (1.02 Kg.) 	ZF-612 10-Holes Two Sided Connector Weight: 2.70 lbs. (1.22 Kg.) 

Design Data :

All ZETA Fittings (except indicated) follow the following dimensions:

Material Width: 40 mm
 Material Thickness: 6 mm
 Hole Size: 14 mm
 Hole Spacing (C-C): 48 mm
 Hole Spacing From end of fittings: 20 mm

Material :

HR Sheet / Flat Bar - S235 JR / S275 JR

(PG) Pregalvanized Steel: in accordance to ASTM A-653

(AL) Aluminum : In accordance to ASTM B209

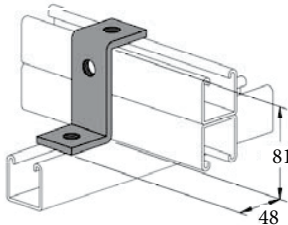
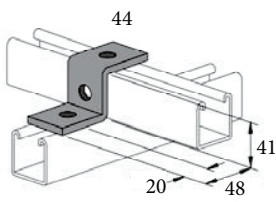
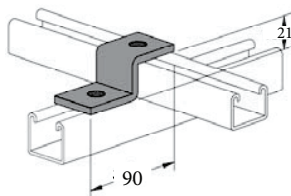
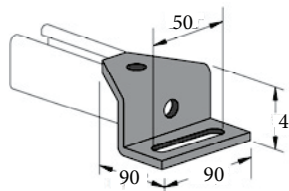
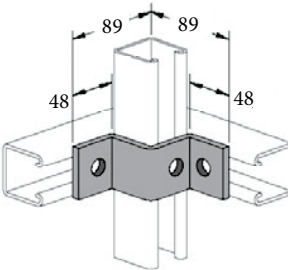
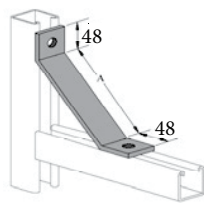
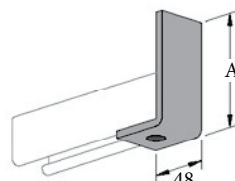
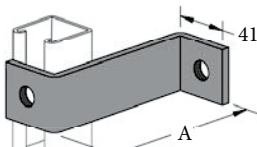
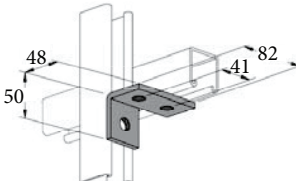
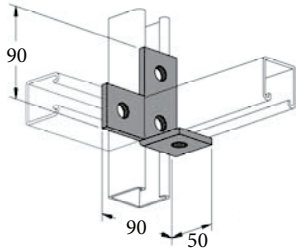
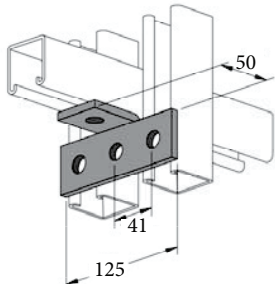
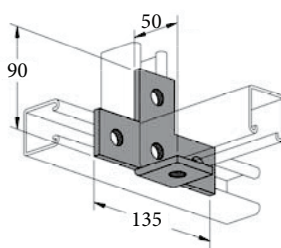
(SS) Stainless Steel : to ASTM A240 (Type 304 & 316)

Finishes :

(HDG) Hot Dip Galvanized To ASTM A123 (BS EN 1461)

(ZP) Zinc Plating To ASTM B633.

(HP) Hot Dip Galvanized & Powder Coated

ZF-701 Z- Support Large Weight: 0.66 lbs. (0.30 Kg) 	ZF-702 Z- Support Medium Weight: 0.54 lbs. (0.24 Kg) 	ZF-703 Z- Support Small Weight: 0.45 lbs. (0.20 Kg) 	ZF-704 Z- Support Offset Weight: 1.00 lbs. (0.45 Kg) 																												
ZF-705 Corner Support Weight: 0.63 lbs. (0.29 Kg.) 	ZF-706 Channel Brace Support <table><tr><th>A mm</th><th>Weight lbs. (kg.)</th></tr><tr><td>300</td><td>1.60(0.72)</td></tr><tr><td>450</td><td>2.20(1.00)</td></tr><tr><td>600</td><td>2.27(1.23)</td></tr></table>	A mm	Weight lbs. (kg.)	300	1.60(0.72)	450	2.20(1.00)	600	2.27(1.23)	ZF-707 End Angle Connector <table><tr><th>A mm</th><th>Weight lbs. (kg.)</th></tr><tr><td>100</td><td>0.59(0.27)</td></tr><tr><td>150</td><td>0.81(0.37)</td></tr><tr><td>200</td><td>1.02(0.46)</td></tr></table>	A mm	Weight lbs. (kg.)	100	0.59(0.27)	150	0.81(0.37)	200	1.02(0.46)	ZF-708 Offset Support <table><tr><th>A mm</th><th>Weight lbs. (kg.)</th></tr><tr><td>100</td><td>0.80(0.36)</td></tr><tr><td>125</td><td>0.90(0.41)</td></tr><tr><td>150</td><td>0.98(0.44)</td></tr><tr><td>175</td><td>1.12(0.51)</td></tr><tr><td>200</td><td>1.23(0.56)</td></tr></table>	A mm	Weight lbs. (kg.)	100	0.80(0.36)	125	0.90(0.41)	150	0.98(0.44)	175	1.12(0.51)	200	1.23(0.56)
A mm	Weight lbs. (kg.)																														
300	1.60(0.72)																														
450	2.20(1.00)																														
600	2.27(1.23)																														
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100	0.80(0.36)																														
125	0.90(0.41)																														
150	0.98(0.44)																														
175	1.12(0.51)																														
200	1.23(0.56)																														
ZF-709 Angle Connector Weight: 0.52 lbs. (0.24 Kg.) 	ZF-710 Angle Tee Connector Weight: 0.78 lbs. (0.35 Kg.) 	ZF-711 Angle Tee Connector Weight: 0.70 lbs. (0.32 Kg.) 	ZF-712 Angle Cross Connector Weight: 1.02 lbs. (0.46 Kg.) 																												

Design Data :

All ZETA Fittings (except indicated) follow the following dimensions:

Material Width: 40 mm
 Material Thickness: 6 mm
 Hole Size: 14 mm
 Hole Spacing (C-C): 48 mm
 Hole Spacing From end of fittings: 20 mm

Material :

HR Sheet / Flat Bar - S235 JR / S275 JR

(PG) Pregalvanized Steel: in accordance to ASTM A-653

(AL) Aluminum : In accordance to ASTM B209

(SS) Stainless Steel : to ASTM A240 (Type 304 & 316)

Finishes :

(HDG) Hot Dip Galvanized To ASTM A123 (BS EN 1461)

(ZP) Zinc Plating To ASTM B633.

(HP) Hot Dip Galvanized & Powder Coated

A complete selection of ZETA TRAY Beam Clamps are offered to meet installation requirements without drilling or welding.

On ordering specify type, size and finishing in addition to part no.

Material :

HR Sheet / Flat Bar - S235 JR / S275 JR

(PG) Pregalvanized Steel: in accordance to ASTM A-653

(AL) Aluminum : In accordance to ASTM B20

(SS) Stainless Steel : to ASTM A240 (Type 304 & 316)

Finishes :

(HDG) Hot Dip Galvanized To BS EN 1461

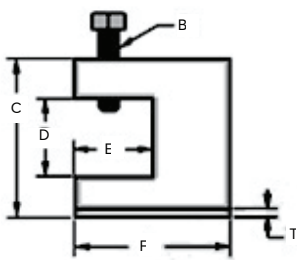
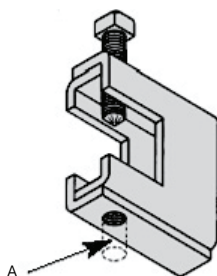
(ZP): Zinc Plating To ASTM B633.

(HP) Hot Dip Galvanized & Powder Coated

ZF-801

Beam Clamp

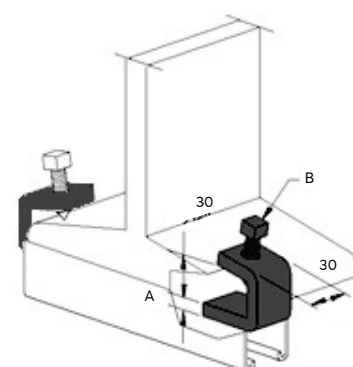
Safety Factor : 1
Screw Torque
For 1/2": 39 N.m
For 5/8": 79 N.m



Part no.	ZF-801-1	ZF-801-2	ZF-801-3	ZF-801-4	ZF-801-5	ZF-801-6
Rod A	10	10	12	12	12	12
B	10	12	12	12	12	12
C	59	62	62	65	90	90
D	22	22	22	22	43	43
E	30	30	30	30	43	43
F	64	64	64	64	85	85
T	2.5	2.5	2.5	3	3	3
Load lbs. (n)	600 (267)	1100 (490)	1100 (490)	1500 (668)	1300 (579)	1400 (623)

ZF-802

Beam Clamp



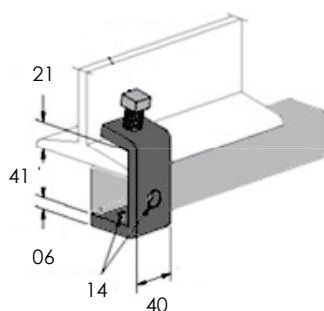
Part no.	A	B	Design Load lbs. (N)	Weight/Pc. lbs. (kg)
ZF-802-1	6	10	600 (267)	0.40 (0.18)

Max. Beam Flange Thickness 7/8"

ZF-803

Beam Clamp

Weight : 0.91 lbs.(0.41 Kg.)

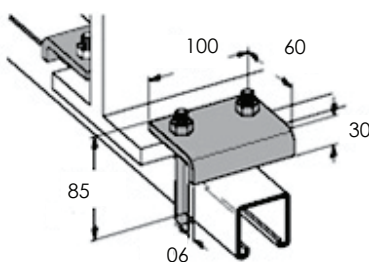


Design Load : 660 lb /pair
Safety Factor : 5
Max. Flange Thickness : 60
Pointed Screws M12 x35mm
Screw Torque : 10 N.m

ZF-804

Beam Clamp

Weight : 0.86 lbs.(0.39 Kg.)

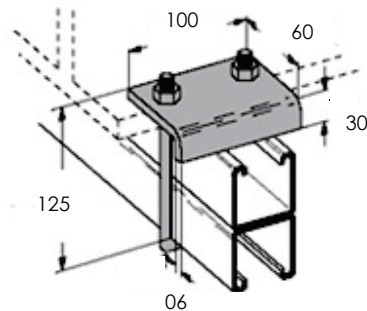


Design Load : 1200 lb /pair
Safety Factor : 5
Max. Flange Thickness :
20 U-Bolt : M10
Screw Torque : 17 N.m

ZF-805

Beam Clamp

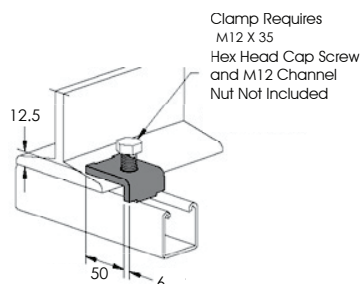
Weight : 0.92 lbs.(0.42 Kg.)



Design Load : 1200 lb /pair
Safety Factor : 5
Max. Flange Thickness :
20 U-Bolt : M10
Screw Torque : 17 N.m

ZF-806

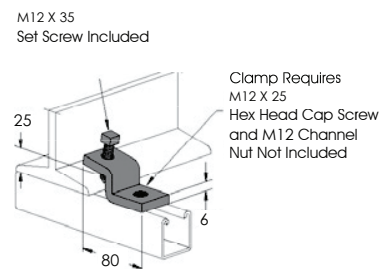
Beam Clamp



Allowable Load : 460 lbs (205 N)
Safety Factor : 3.0
Weight : 0.4 lbs (0.18 Kg)

ZF-807

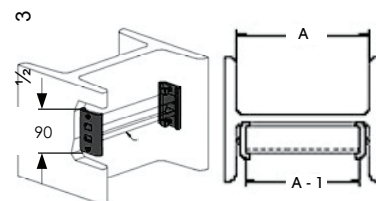
Beam Clamp



Allowable Load : 460 lbs (205 N)
Safety Factor : 3.0
Weight : 0.66 lbs (0.29 Kg)

ZF-808

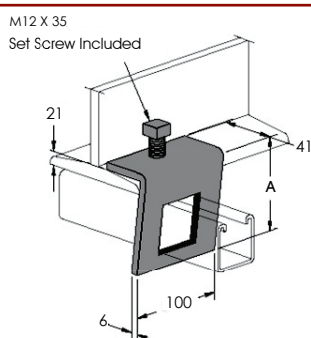
Beam Clamp



Slip Design Load : 800 lbs (356 N)
Safety Factor : 3.0
Pointed Screws 4Pcs 3/8"x2"
Weight : 1.1 lbs (0.49 Kg)

ZF-809

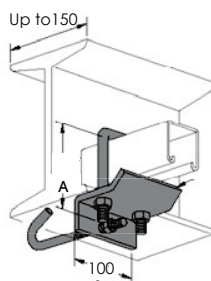
Beam Clamp



Design Load : 740 lb /pair
Safety Factor : 3.0
Pointed Screws M12X35
Torque requirement 10ft.lb

ZF-810

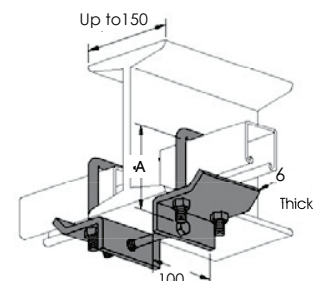
Beam Clamp



U-Bolt M10 Thread With 2-Hex.Nuts.
J-Hook M10 Thread With Hex. Nut.
For Other Beam Flange Sizes Please Contact Us.

ZF-811

Beam Clamp



U-Bolt M10 Thread With 2-Hex.Nuts.
J-Hook M10 Thread With Hex. Nut.
For Other Beam Flange Sizes Please Contact Us.

Part no.	Channel Used	A	Weight/Pc. Lbs. (kg)
ZF-809-1	ZS-100	100	1.02 (0.45)
ZF-809-2	ZS-300	70	1.08 (0.48)

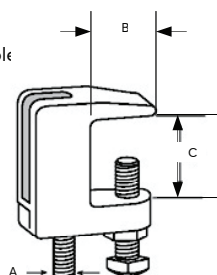
Part no.	Channel Used	A	Weight/Pc. Lbs. (kg)
ZF-810-1	ZS-100 ZS-400	100	1.22 (0.54)
ZF-810-2	ZS-200 ZS-500	125	1.3 (0.58)

Part no.	Channel Used	A	Weight/Pc. Lbs. (kg)
ZF-811-1	ZS-100 ZS-400	100	2.10 (0.93)
ZF-811-2	ZS-200 ZS-500	12	2.00 (0.89)

ZF-812

Malleable Iron Beam Clamp

Safety Factor : 1
Material: Malleable Iron (ASTM A47)

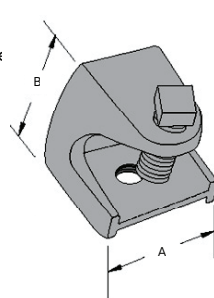


Part no.	A	B	C	Design Load lbs. (N)	Weight/Pc. Lbs. (kg)
ZF-812-1	10	38	20	400 (178)	0.30 (0.14)
ZF-812-2	12	25	20	700 (311)	0.47 (0.21)
ZF-812-3	10	25	30	500 (222)	0.54 (0.24)
ZF-812-4	12	25	30	700 (311)	0.51 (0.23)

ZF-814

Malleable Iron Beam Clamp

Safety Factor : 1
Material: Malleable Iron (ASTM A47)

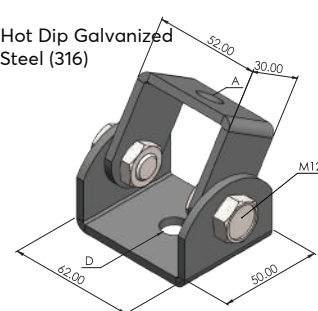


Part no.	Rod Size	B	Load lbs. (N)	Weight/Pc. Lbs. (kg)
ZF-814-1	6	28	31 150 (67)	0.22 (0.10)
ZF-814-2	10	50	50 350 (156)	0.95 (0.42)
ZF-814-3	12	60	63 400 (178)	1.96 (0.87)

ZF-815

Universal Bracket

Material: Hot Dip Galvanized Stainless Steel (316)



Part no.	Thickness (mm)	A (mm)	D (mm)
ZF-815-1	4	8.5	8.5
ZF-815-2	5	10.5	10.5
		12.5	12.5

Material :

HR Sheet / Flat Bar -
S235 JR / S275 JR

(SS) Stainless Steel :to ASTM
A240 (Type 304 & 316)

Finishes :

(HDG) Hot Dip Galvanized in
Acc. To ASTM A123.(BS EN 1461)

(HP) Hot Dip Galvanized &
Powder Coated

Zinc Plating :ASTM B633

Design Data :

(except indicated)

Material Thickness:1/4" (6.3mm).

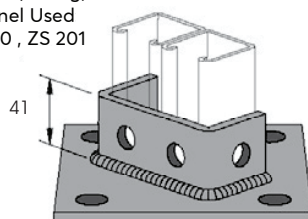
Hole Size: 9/16" (14.3mm).

Hole Spacing From
end of fittings: 13/16"(20.6mm).

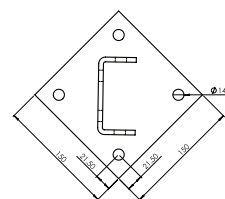
ZP 101

Four Holes Double Channel Post Base

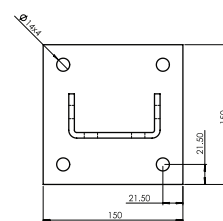
Weight
320 lbs (1.42Kg)
Channel Used
ZS 200 , ZS 201



ZP 101 - A



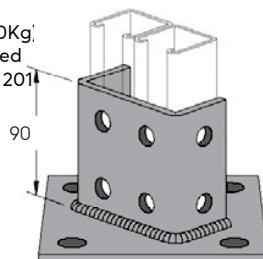
ZP 101 - B



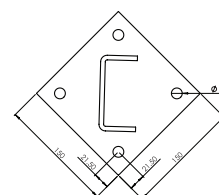
ZP 102

Eight Holes Double Channel Post Base

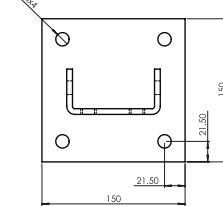
Weight
404 lbs (1.80Kg)
Channel Used
ZS 200 , ZS 201



ZP 102 - A



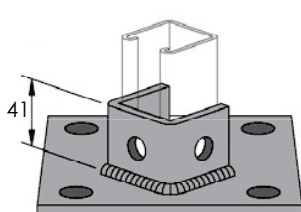
ZP 102 - B



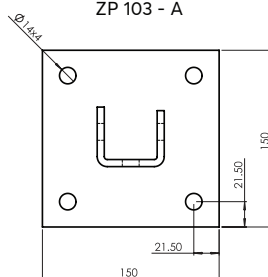
ZP 103

Three Holes Single Channel Post Base

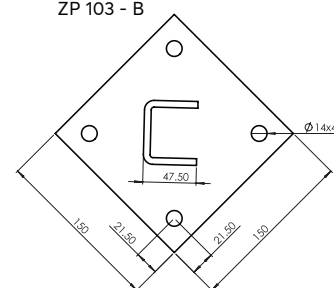
Weight
305 lbs (1.36Kg)
Channel Used
ZS 100 , ZS 400



ZP 103 - A



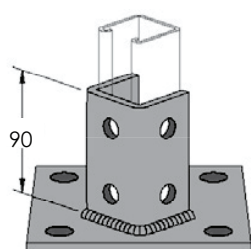
ZP 103 - B



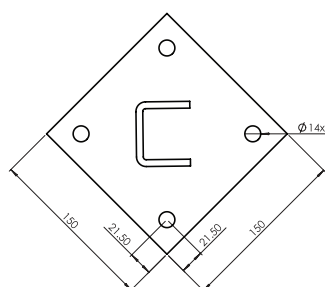
ZP 104

Six Hole Single Channel Post Base

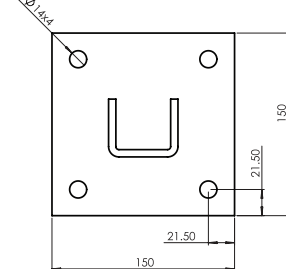
Weight
370 lbs (1.65Kg)
Channel Used
ZS 100 , ZS 400



ZP 104 - A



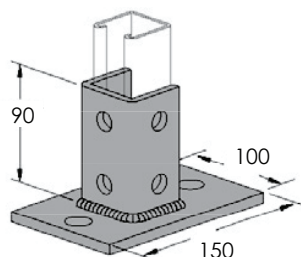
ZP 104 - B



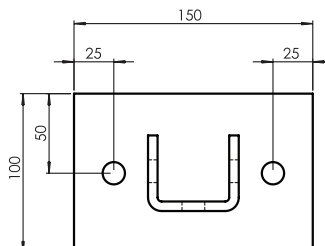
ZP 105

Six Holes Single Channel Longitudinal Post Base

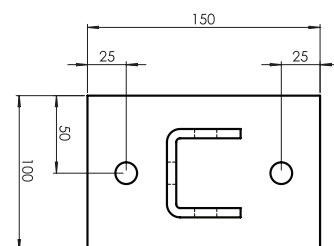
Weight
355 lbs (1.58 Kg)
Channel Used
ZS 100 , ZS 400



ZP 105 - A



ZP 105 - B



STEEL SECTIONS

Steel sections form the primary load-bearing elements of structural support assemblies, providing the strength and rigidity required for heavy-duty mechanical installations across industrial, commercial, and infrastructure projects.

ICMS supplies a full range of structural steel sections — including base plates, L angles, universal columns, C channels, hollow sections, and custom fabricated structural supports — all manufactured to international standards and available with protective finishing options to suit any project environment.

A photograph of an industrial facility featuring a complex network of steel beams, pipes, and structural supports. The scene is set outdoors under a cloudy sky. In the foreground, several large vertical steel columns are mounted on concrete bases. Horizontal pipes and smaller structural elements are visible throughout the frame. A red banner with white text is overlaid across the middle of the image.

Steel Sections

Base Plates

Structural base plates are essential components designed to distribute concentrated loads from vertical load-bearing profiles (such as columns, C-channels, or L-angles) over a wider surface area of a concrete foundation or supporting structure

Material Grades: Available in hot-rolled carbon steel (ASTM A36 / S275JR / S235JR) and stainless steel grades SS304 or SS316.

Surface Protection: Hot Dip Galvanized (HDG)

Black (MS): Standard raw finish.

Part Number	Dimensions (A x A)	Thickness (T)
BP-100-100-3	100 x 100 mm	3 mm
BP-100-100-4	100 x 100 mm	4 mm
BP-100-100-5	100 x 100 mm	5 mm
BP-100-100-6	100 x 100 mm	6 mm
BP-100-100-7	100 x 100 mm	7 mm
BP-100-100-8	100 x 100 mm	8 mm
BP-100-100-10	100 x 100 mm	10 mm
BP-150-150-3	150 x 150 mm	3 mm
BP-150-150-4	150 x 150 mm	4 mm
BP-150-150-5	150 x 150 mm	5 mm
BP-150-150-6	150 x 150 mm	6 mm
BP-150-150-7	150 x 150 mm	7 mm
BP-150-150-8	150 x 150 mm	8 mm
BP-150-150-10	150 x 150 mm	10 mm
BP-200-200-3	200 x 200 mm	3 mm
BP-200-200-4	200 x 200 mm	4 mm
BP-200-200-5	200 x 200 mm	5 mm
BP-200-200-6	200 x 200 mm	6 mm
BP-200-200-7	200 x 200 mm	7 mm
BP-200-200-8	200 x 200 mm	8 mm
BP-200-200-10	200 x 200 mm	10 mm

Part Number	Dimensions (A x A)	Thickness (T)
BP-250-250-3	250 x 250 mm	3 mm
BP-250-250-4	250 x 250 mm	4 mm
BP-250-250-5	250 x 250 mm	5 mm
BP-250-250-6	250 x 250 mm	6 mm
BP-250-250-7	250 x 250 mm	7 mm
BP-250-250-8	250 x 250 mm	8 mm
BP-250-250-10	250 x 250 mm	10 mm
BP-300-300-3	300 x 300 mm	3 mm
BP-300-300-4	300 x 300 mm	4 mm
BP-300-300-5	300 x 300 mm	5 mm
BP-300-300-6	300 x 300 mm	6 mm
BP-300-300-7	300 x 300 mm	7 mm
BP-300-300-8	300 x 300 mm	8 mm
BP-300-300-10	300 x 300 mm	10 mm
BP-400-400-6	400 x 400 mm	6 mm
BP-400-400-7	400 x 400 mm	7 mm
BP-400-400-8	400 x 400 mm	8 mm
BP-400-400-10	400 x 400 mm	10 mm
BP-500-500-6	500 x 500 mm	6 mm
BP-500-500-8	500 x 500 mm	8 mm
BP-500-500-10	500 x 500 mm	10 mm
BP-500-500-12	500 x 500 mm	12 mm



Customization

Customized sizes, hole patterns, and finishes can be provided upon request to meet specific project or MEP coordination requirements.

L Angles

Structural L-Angles (AG Series) are versatile load-bearing profiles used extensively in MEP installations for trapeze supports, duct bracing, and equipment framing, as well as in general steel construction

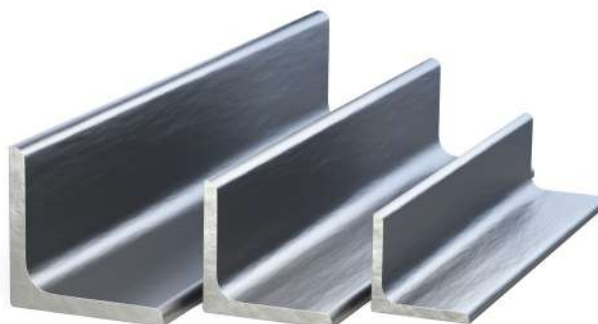
Material Grades: Available in hot-rolled carbon steel (ASTM A36 / S275JR / S235JR) and stainless steel grades SS304 or SS316.

Surface Protection : Hot Dip Galvanized (HDG)

Black (MS): Standard raw finish.

Customization

Customized sizes, hole patterns, and finishes can be provided upon request to meet specific project or MEP coordination requirements.



Section Reference	Part Codes	Thickness (t mm)
20×20×3	AG-20-20-3	3
20×20×4	AG-20-20-4	4
25×25×3	AG-25-25-3	3
25×25×4	AG-25-25-4	4
25×25×5	AG-25-25-5	5
30×30×3	AG-30-30-3	3
30×30×4	AG-30-30-4	4
30×30×5	AG-30-30-5	5
35×35×3	AG-35-35-3	3
35×35×4	AG-35-35-4	4
35×35×5	AG-35-35-5	5
35×35×6	AG-35-35-6	6
40×40×3	AG-40-40-3	3
40×40×4	AG-40-40-4	4
40×40×5	AG-40-40-5	5
40×40×6	AG-40-40-6	6
45×45×3	AG-45-45-3	3
45×45×4	AG-45-45-4	4
45×45×5	AG-45-45-5	5
45×45×6	AG-45-45-6	6
50×50×3	AG-50-50-3	3
50×50×4	AG-50-50-4	4
50×50×5	AG-50-50-5	5
50×50×6	AG-50-50-6	6
55×55×5	AG-55-55-5	5
55×55×6	AG-55-55-6	6
55×55×8	AG-55-55-8	8
55×55×10	AG-55-55-10	10

Section Reference	Part Codes	Thickness (t mm)
60×60×5	AG-60-60-5	5
60×60×6	AG-60-60-6	6
60×60×8	AG-60-60-8	8
60×60×10	AG-60-60-10	10
65×65×5	AG-65-65-5	5
65×65×6	AG-65-65-6	6
65×65×8	AG-65-65-8	8
65×65×10	AG-65-65-10	10
70×70×5	AG-70-70-5	5
70×70×6	AG-70-70-6	6
70×70×8	AG-70-70-8	8
70×70×10	AG-70-70-10	10
75×75×5	AG-75-75-5	5
75×75×6	AG-75-75-6	6
75×75×8	AG-75-75-8	8
75×75×10	AG-75-75-10	10
80×80×6	AG-80-80-6	6
80×80×8	AG-80-80-8	8
80×80×10	AG-80-80-10	10
80×80×12	AG-80-80-12	12
90×90×6	AG-90-90-6	6
90×90×8	AG-90-90-8	8
90×90×10	AG-90-90-10	10
90×90×12	AG-90-90-12	12
100×100×6	AG-100-100-6	6
100×100×8	AG-100-100-8	8
100×100×10	AG-100-100-10	10
100×100×12	AG-100-100-12	12

Universal Columns

Universal Columns (UC) are H-shaped structural members primarily designed to carry heavy vertical compressive loads. Due to their nearly equal depth and width, they offer excellent resistance to buckling, making them the standard choice for vertical load-bearing applications

Material Grades: Available in hot-rolled carbon steel (ASTM A36 / S235JR / S275JR / S355JR) and stainless steel grades SS304 or SS316.

Surface Protection : Hot Dip Galvanized (HDG)

Black (MS): Standard raw finish.



Article No.	Serial Size	Mass (G)	Depth (D)	Width (B)	Web (t)	Flange (T)	Root (r)	Area
	mm x kg/m	kg/m	mm	mm	mm	mm	mm	cm
UC-152-152-23	152 x 152 x 23	23	152.4	152.2	5.8	6.8	7.6	29.2
UC-152-152-30	152 x 152 x 30	30	157.6	152.9	6.5	9.4	7.6	38.3
UC-152-152-37	152 x 152 x 37	37	161.8	154.4	8	11.5	7.6	47.1
UC-203-203-46	203 x 203 x 46	46.1	203.2	203.6	7.2	11	12.7	59.2
UC-203-203-52	203 x 203 x 52	52	206.2	204.3	7.9	12.5	12.7	66.8
UC-203-203-60	203 x 203 x 60	60	209.6	205.8	9.4	14.2	12.7	76.9
UC-203-203-71	203 x 203 x 71	71	215.8	206.4	10	17.3	12.7	90.9
UC-203-203-86	203 x 203 x 86	86.1	222.2	209.1	12.7	20.5	12.7	110
UC-254-254-73	254 x 254 x 73	73.1	254.1	254.6	8.6	14.2	12.7	93.1
UC-254-254-89	254 x 254 x 89	88.9	260.3	256.3	10.3	17.3	12.7	113
UC-254-254-107	254 x 254 x 107	107.1	266.7	258.8	12.8	20.5	12.7	136
UC-254-254-132	254 x 254 x 132	132	276.3	261.3	15.3	25.3	12.7	168
UC-305-305-97	305 x 305 x 97	96.9	307.9	305.3	9.9	15.4	15.2	123
UC-305-305-118	305 x 305 x 118	117.9	314.5	307.4	12	18.7	15.2	150
UC-305-305-137	305 x 305 x 137	136.9	320.5	309.2	13.8	21.7	15.2	174
UC-305-305-158	305 x 305 x 158	158.1	327.1	311.2	15.8	25	15.2	201
UC-356-368-129	356 x 368 x 129	129	355.6	368.6	10.4	17.5	15.2	164

C Channels

Structural C-Channels (C Series) are versatile load-bearing profiles used extensively in MEP installations for trapeze supports, equipment framing, and secondary structural steel bracing.

• **Comprehensive Profile Range:** Available in UPN, UPE, PFC, and JIS sections with a standardized part number reference system across all profile types for simplified selection and ordering.

Material Grades: Available in hot-rolled carbon steel (ASTM A36, S235JR, S275JR, S355JR) as well as stainless steel grades SS304 and SS316

Surface Protection: Hot Dip Galvanized (HDG)

Black (MS): Standard raw finish.



Article No.	Serial Size (mm)	Thickness (mm)	Length (m)
CC-50-25-5-6	50 x 25 x 5	5	6
CC-75-40-4-6	75 x 40 x 4	4	6
CC-75-40-5-6	75 x 40 x 5	5	6
CC-100-50-4-6	100 x 50 x 4	4	6
CC-100-50-5-6	100 x 50 x 5	5	6
CC-100-50-6-6	100 x 50 x 6	6	6
CC-125-65-6-6	125 x 65 x 6	6	6
CC-150-75-5.5-6	150 x 75 x 5.5	5.5	6/12
CC-150-75-6.5-6	150 x 75 x 6.5	6.5	6/12
CC-150-75-9-6	150 x 75 x 9	9	6/12
CC-180-75-7-6	180 x 75 x 7	7	6/12
CC-200-80-7.5-6	200 x 80 x 7.5	7.5	6/12
CC-200-90-8-6	200 x 90 x 8	8	6/12
CC-230-80-8-6	230 x 80 x 8	8	6/12
CC-250-90-9-6	250 x 90 x 9	9	6/12
CC-250-90-11-6	250 x 90 x 11	11	6/12
CC-300-90-9-6	300 x 90 x 9	9	6/12
CC-300-90-10-6	300 x 90 x 10	10	6/12
CC-380-100-10.5-6	380 x 100 x 10.5	10.5	6/12
CC-380-100-13-6	380 x 100 x 13	13	6/12

Customization

Customized lengths , specific hole patterns, and specialized finishes can be provided upon request to meet specific project or MEP coordination requirements

Hollow Section

Square Hollow Sections (SHS) and Rectangular Hollow Sections (RHS) are high-strength, cold-formed steel profiles for heavy-duty MEP support structures. They provide high torsional rigidity and an excellent strength-to-weight ratio, making them ideal for MEP Support Systems applications.

Material Grades:

Available in hot-rolled carbon steel (ASTM A36, S235JR, S355JR) as well as stainless steel grades SS304 and SS316

Surface Protection:

Hot Dip Galvanized (HDG)

Black (Mill Finish): Standard raw finish.

Customization

Customized lengths , specific hole patterns, and specialized finishes can be provided upon request to meet specific project or MEP coordination requirements

Square Hollow Sections (SHS)

Section Reference (mm)	Part Codes	Thickness (t mm)
15 x 15	SHS-15-15-1.5	1.5
20 x 20	SHS-20-20-1.5 / 2.0 / 2.5	1.5, 2.0, 2.5
25 x 25	SHS-25-25-1.5 / 2.0 / 2.5 / 3.0	1.5, 2.0, 2.5, 3.0
30 x 30	SHS-30-30-1.6 / 2.0 / 2.5 / 3.0	1.6, 2.0, 2.5, 3.0
40 x 40	SHS-40-40-1.6 / 2.0 / 2.5 / 3.0 / 4.0	1.6, 2.0, 2.5, 3.0, 4.0
50 x 50	SHS-50-50-2.0 / 2.5 / 3.0 / 4.0 / 5.0 / 6.0	2.0, 2.5, 3.0, 4.0, 5.0, 6.0
60 x 60	SHS-60-60-2.0 / 3.0 / 4.0 / 5.0 / 6.0	2.0, 3.0, 4.0, 5.0, 6.0
75 x 75	SHS-75-75-3.0 / 4.0 / 5.0 / 6.0	3.0, 4.0, 5.0, 6.0
80 x 80	SHS-80-80-3.0 / 4.0 / 5.0 / 6.0 / 8.0	3.0, 4.0, 5.0, 6.0, 8.0
100 x 100	SHS-100-100-3.0 / 4.0 / 5.0 / 6.0 / 8.0 / 10.0	3.0, 4.0, 5.0, 6.0, 8.0, 10.0
120 x 120	SHS-120-120-4.0 / 5.0 / 6.0 / 8.0 / 10.0	4.0, 5.0, 6.0, 8.0, 10.0
150 x 150	SHS-150-150-5.0 / 6.0 / 8.0 / 10.0 / 12.0	5.0, 6.0, 8.0, 10.0, 12.0



Rectangular Hollow Sections (RHS)

Section Reference (mm)	Part Codes	Thickness (t mm)
40 x 20	RHS-40-20-1.6 / 2.0 / 2.5 / 3.0	1.6, 2.0, 2.5, 3.0
50 x 25	RHS-50-25-2.0 / 2.5 / 3.0	2.0, 2.5, 3.0
50 x 30	RHS-50-30-2.5 / 3.0 / 4.0	2.5, 3.0, 4.0
60 x 40	RHS-60-40-2.0 / 2.5 / 3.0 / 4.0	2.0, 2.5, 3.0, 4.0
75 x 50	RHS-75-50-2.5 / 3.0 / 4.0 / 5.0 / 6.0	2.5, 3.0, 4.0, 5.0, 6.0
80 x 40	RHS-80-40-2.5 / 3.0 / 4.0 / 5.0	2.5, 3.0, 4.0, 5.0
100 x 50	RHS-100-50-2.5 / 3.0 / 4.0 / 5.0 / 6.0	2.5, 3.0, 4.0, 5.0, 6.0
120 x 80	RHS-120-80-3.0 / 4.0 / 5.0 / 6.0 / 8.0	3.0, 4.0, 5.0, 6.0, 8.0
150 x 100	RHS-150-100-4.0 / 5.0 / 6.0 / 8.0 / 10.0	4.0, 5.0, 6.0, 8.0, 10.0
200 x 100	RHS-200-100-5.0 / 6.0 / 8.0 / 10.0	5.0, 6.0, 8.0, 10.0
250 x 150	RHS-250-150-5.0 / 6.0 / 8.0 / 10.0	5.0, 6.0, 8.0, 10.0



Custom Fabricated Structural Supports

Bespoke support solutions are provided for pipes, ducts, cable trays, and heavy equipment. Every unit is manufactured to precise customer specifications to meet the unique structural demands of the project site.

1. Core Fabrication Profiles

A wide range of structural sections is utilized to build supports tailored to specific load requirements:

Slotted & Plain U-Channels: Modular strut systems for adjustable trapeze hangers and multi-tier framing.

L-Angles & C-Channels: For heavy trapeze hangers, wall brackets, and secondary steelwork.

Box Sections (SHS/RHS): For high-strength floor stands and primary structural headers.

I-Beams & H-Beams: For heavy-duty industrial pipe racks and plant room platforms.

Flat Plates & Gussets: Precision-cut base plates and reinforcement stiffeners.

2. Premium Finishing Options

Specialized coatings are provided to match every environmental condition:

Pre-Galvanized (GI): Cost-effective for indoor, dry MEP installations.

Hot-Dip Galvanized (HDG): To ISO 1461 / ASTM A123 for maximum outdoor and industrial protection.

Stainless Steel (SS 304/316): For highly corrosive or hygienic environments.

Epoxy Painted / Red Oxide: Standard industrial primers for indoor structural steel

HDG + Powder Coated: Dual-layer protection for architectural aesthetics and extreme durability.

Features

- Custom made engineering allows for 100% customization based on customer-provided shop drawings and site-specific dimensions.
- Heavy-duty structural integrity is guaranteed through the use of certified ASTM A36, S235JR, or Grade 50 carbon steel.
- Versatile application range covers all MEP services including chilled water, firefighting, plumbing, HVAC, and electrical containment.
- Fast-track production capability allows for rapid response to urgent site requirements and design changes.
- Precision CNC cutting and drilling ensure high-quality support fabrication and reliable delivery.
- Engineering design and calculation support is available upon request



ANCHORS & FASTENERS

No support system is stronger than its connection to the structure. Anchors and fasteners are the critical final link between the support assembly and the building fabric — and selecting the right fixing for the substrate, load, and environment is essential to the safety and durability of the entire installation.

ICMS offers a complete range of anchors and fasteners engineered for use with our full product portfolio. Our anchor range includes drop-in anchors, wedge anchors, hollow-core slab anchors, and shield anchors, each suited to specific concrete and masonry substrates and load classifications. Our fastener range covers hexagonal bolts, nuts, washers, threaded rods, machine screws, rod couplings, channel nuts, spring channel nuts, T-bolts, and more — providing everything needed to assemble, connect, and fix a complete support system.

All ICMS anchors and fasteners are manufactured to ASTM and BS EN standards and are available in the full range of protective finishes — Electro-Galvanized, Hot-Dip Galvanized, Stainless Steel, and Powder Coated — ensuring long-term performance in both standard and aggressive environments.

With ICMS, every component from the structure anchor to the pipe clamp is available from a single, trusted source.

Anchors & Fasteners



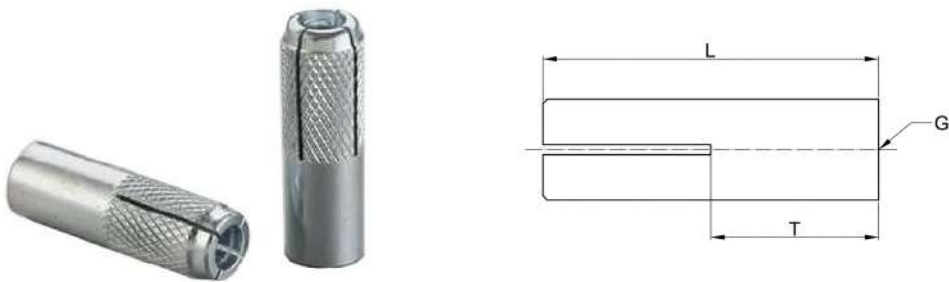
Drop in Anchor ZW-111

- Internally threaded expansion anchors for flush installation in solid concrete, used to secure threaded rods, bolts, and fixtures
- Ideal for overhead installations, including the suspension of pipes, ductwork, fire sprinkler systems, electrical fixings, and structural steel attachments.
- Short versions of drop-in anchors are also available for installation in hollow core slabs

Versions

Zinc plated , Hot-dip galvanized, Stainless steel

Item	Art Number	Threaded Size	Length L (mm)	Thread Length T (mm)	Nominal Drill Hole Diameter (mm)	Minimum Drill Hole Depth (mm)	Design Load (N)
Drop in anchor M6	ZW-111-6	M6	25	10	8	25	750
Drop in anchor M8	ZW-111-8	M8	30	13	10	30	1600
Drop in anchor M10	ZW-111-10	M10	40	16	12	40	2200
Drop in anchor M12	ZW-111-12	M12	50	21	15	50	3150
Drop in anchor M16	ZW-111-16	M16	65	30	20	65	6100
Drop in anchor M20	ZW-111-20	M20	80	35	25	80	7500



Item	Art Number	Threaded Size	Length L (mm)	Thread Length T (mm)	Nominal Drill Hole Diameter (mm)	Minimum Drill Hole Depth (mm)	Design Load (N)
Drop in anchor M8x25	ZW-111-8-25	M8	25	12	10	25	1250
Drop in anchor M10x25	ZW-111-10-25	M10	25	12	12	25	1950
Drop in anchor M12x25	ZW-111-12-25	M12	25	12	15	25	2650



Custom sizes and finishes available on request

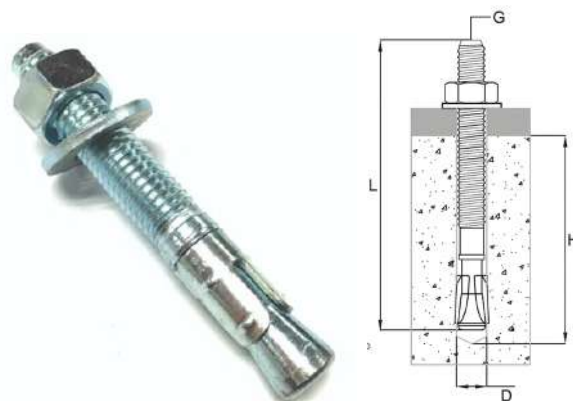
Wedge Anchor ZW - 112

Wedge anchors are heavy-duty expansion anchors designed for use in solid concrete, providing secure and permanent fixing for structural and mechanical applications

Versions

Zinc plated , Hot-dip galvanized, Stainless steel

When the hexagon nut is tightened, the cone is pulled into the expansion clip, causing it to expand against the walls of the drilled hole for a secure hold



Item	Art Number	Size G	Anchor Length L (mm)	Nominal Drill Hole Diameter (mm)	Minimum Drill Hole Depth (mm)	Design Tensile Load (N)
Wedge Anchor M6	ZW-112-6-60	M6	60	6	35	830
	ZW-112-6-70	M6	70	6	35	830
Wedge Anchor M8	ZW-112-8-60	M8	60	8	40	1670
	ZW-112-8-75	M8	75	8	40	1670
	ZW-112-8-80	M8	80	8	40	1670
	ZW-112-8-90	M8	90	8	40	1670
	ZW-112-8-95	M8	95	8	40	1670
	ZW-112-8-100	M8	100	8	40	1670
	ZW-112-8-115	M8	115	8	40	1670
Wedge Anchor M10	ZW-112-10-60	M10	60	10	50	2500
	ZW-112-10-70	M10	70	10	50	2500
	ZW-112-10-80	M10	80	10	50	2500
	ZW-112-10-90	M10	90	10	50	2500
	ZW-112-10-95	M10	95	10	50	2500
	ZW-112-10-100	M10	100	10	50	2500
	ZW-112-10-110	M10	110	10	50	2500
	ZW-112-10-120	M10	120	10	50	2500
Wedge Anchor M12	ZW-112-12-75	M12	75	12	60	3330
	ZW-112-12-80	M12	80	12	60	3330
	ZW-112-12-90	M12	90	12	60	3330
	ZW-112-12-100	M12	100	12	60	3330
	ZW-112-12-110	M12	110	12	60	3330
	ZW-112-12-120	M12	120	12	60	3330
	ZW-112-12-150	M12	150	12	60	3330
Wedge Anchor M16	ZW-112-16-100	M16	100	16	75	7220
	ZW-112-16-120	M16	120	16	75	7220
	ZW-112-16-150	M16	150	16	75	7220
Wedge Anchor M20	ZW-112-20-200	M20	200	20	90	9440
	ZW-112-20-240	M20	240	20	90	9440

Hollow-Core Slab Anchor

The Hollow-core slab anchor (ZW-123) is a specialized expansion anchor designed specifically for fixings in the cavities of pre-stressed hollow-core concrete slabs.

When the bolt or nut is tightened, the internal cone is pulled into the expansion sleeve, causing it to expand and bridge the cavity of the hollow core, creating a secure mechanical interlock against the concrete shell.

Versions

Zinc plated , Hot-dip galvanized, Stainless steel



Item	Art Number	Threaded Size	Nominal Drill Hole Diameter (mm)	Installation torque moment (Nm)	Design Load (N)
Hollow-core slab anchor M6	ZW-123-6	M6	10	10	1.2
Hollow-core slab anchor M8	ZW-123-8	M8	12	20	2.2
Hollow-core slab anchor M10	ZW-123-10	M10	16	30	3

M12,16 sizes and finishes available on request

Shield Anchor - (YZP Fixing Bolt)

The YZP Series shield anchors are torque-controlled expansion anchors specifically designed for secure fastening in concrete and solid masonry. Their three-piece expansion sleeve creates a larger contact surface, delivering enhanced grip, stability, and safety under load conditions

MATERIAL

- Material Finish - Yellow Zinc Plated

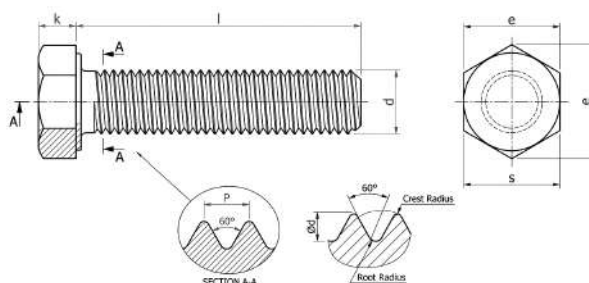


Model No.	Thread Size (d)	Drill ø (d2)
YZP-M8	M8	14
YZP-M10	M10	16
YZP-M12	M12	20
YZP-M16	M16	25

- Also available in silver zinc-plated finish upon request.

Hexagonal Bolt

Hex head bolts are fully threaded metric fasteners designed for reliable clamping in mechanical and structural applications. The hexagonal head allows easy tightening with spanners or socket tools



Standard : DIN 933/ISO 4017

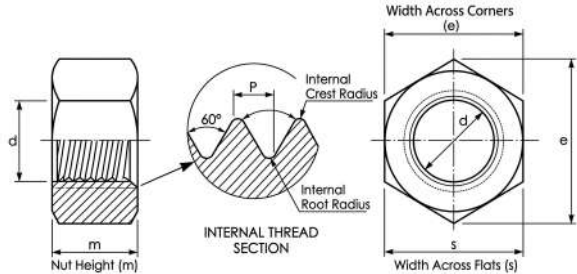
Material : Mild Steel, Carbon Steel, Alloy Steel & Stainless Steel.

Finish Available : Plain, Electro-Galvanized, Hot Dip Galvanized, Zinc Flake, Yellow, Cadmium & Nickel

Item	Art Number	Thread Size (d)	Pitch (P)	Head Height (k)	Width Across Flats (s)	Width Across Corners (e)
Hexagonal Bolt M6	ZW-101-6	M6	1	4	10	11.05
Hexagonal Bolt M8	ZW-101-8	M8	1.25	5.3	13	14.38
Hexagonal Bolt M10	ZW-101-10	M10	1.5	6.4	17	18.9
Hexagonal Bolt M12	ZW-101-12	M12	1.75	7.5	19	21.18
Hexagonal Bolt M16	ZW-101-16	M16	2	10	24	26.83
Hexagonal Bolt M20	ZW-101-20	M20	2.5	12.5	30	33.54
Hexagonal Bolt M24	ZW-101-24	M24	3	15	36	40.22
Hexagonal Bolt M27	ZW-101-27	M27	3	17	41	45.82
Hexagonal Bolt M30	ZW-101-30	M30	3.5	18.7	46	51.43
Hexagonal Bolt M33	ZW-101-33	M33	3.5	21	50	55.79
Hexagonal Bolt M36	ZW-101-36	M36	4	22.5	55	61.21
Hexagonal Bolt M39	ZW-101-39	M39	4	25	60	66.62
Hexagonal Bolt M42	ZW-101-42	M42	4.5	26	65	72.04
Hexagonal Bolt M45	ZW-101-45	M45	4.5	28	70	77.46
Hexagonal Bolt M48	ZW-101-48	M48	5	30	75	82.87
Hexagonal Bolt M52	ZW-101-52	M52	5	33	80	88.29
Hexagonal Bolt M56	ZW-101-56	M56	5.5	35	85	93.71

Hexagonal Nuts

Hexagonal nuts are internally threaded fasteners used with bolts and screws to clamp multiple parts together. The hexagonal shape is designed for high torque application using standard wrenches



Standard : DIN 934 / ISO 4032

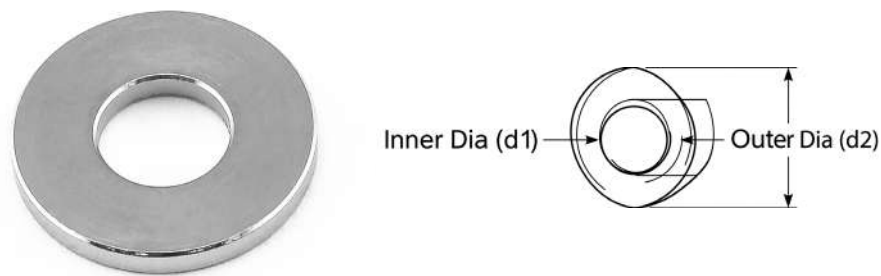
Material : Material: Mild Steel, Carbon Steel, Alloy Steel, & Stainless Steel

Finish Available: Plain, Electro-Galvanized, Hot Dip Galvanized, Zinc Flake.

Item	Art Number	Thread Size (d)	Pitch (P)	Nut Height (m)	Width Across Flats (s)	Width Across Corners (e)
Hexagonal Nut M6	ZW-108-6	M6	1	5	10	11.05
Hexagonal Nut M8	ZW-108-8	M8	1.25	6.5	13	14.38
Hexagonal Nut M10	ZW-108-10	M10	1.5	8	17	18.9
Hexagonal Nut M12	ZW-108-12	M12	1.75	10	19	21.1
Hexagonal Nut M16	ZW-108-16	M16	2	13	24	26.75
Hexagonal Nut M20	ZW-108-20	M20	2.5	16	30	32.95
Hexagonal Nut M24	ZW-108-24	M24	3	19	36	39.55
Hexagonal Nut M27	ZW-108-27	M27	3	22	41	45.2
Hexagonal Nut M30	ZW-108-30	M30	3.5	24	46	50.85
Hexagonal Nut M33	ZW-108-33	M33	3.5	26	50	55.37
Hexagonal Nut M36	ZW-108-36	M36	4	29	55	60.79
Hexagonal Nut M39	ZW-108-39	M39	4	31	60	66.44
Hexagonal Nut M42	ZW-108-42	M42	4.5	34	65	71.3
Hexagonal Nut M45	ZW-108-45	M45	4.5	36	70	76.95
Hexagonal Nut M48	ZW-108-48	M48	5	38	75	82.6
Hexagonal Nut M52	ZW-108-52	M52	5	42	80	88.25
Hexagonal Nut M56	ZW-108-56	M56	5.5	45	85	93.56

Flat Washer

Plain flat washers used to distribute the load of a threaded fastener and prevent damage to the surface being fastened.



Standard : DIN 125-A / ISO 7089

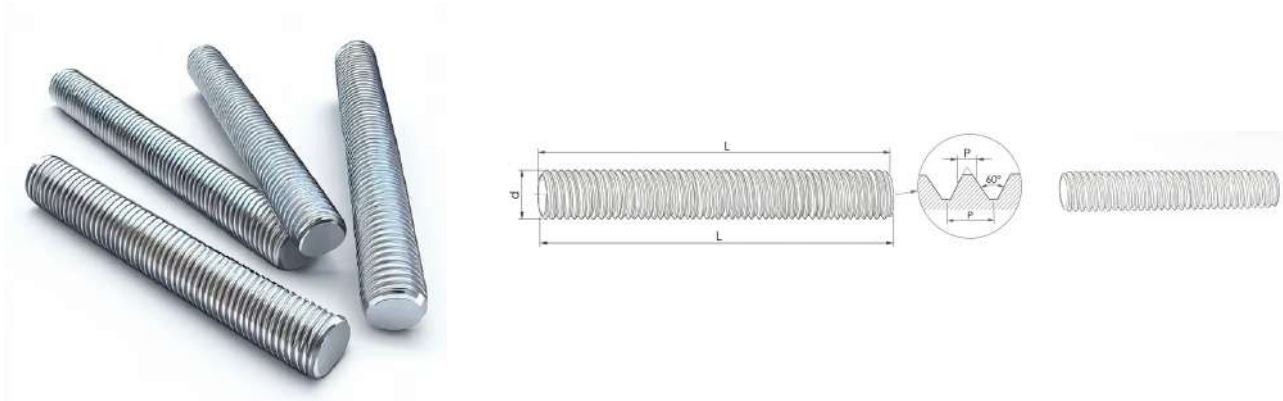
Material : Mild Steel, Carbon Steel, Alloy Steel, & Stainless Steel

Finish Available: Plain, Electro-Galvanized, Hot Dip Galvanized, Zinc Flake.

Item	Art Number	Nominal Size	Inner Dia (d1)	Outer Dia (d2)
Flat Washer M6	ZW-105-6	M6	6.4	12
Flat Washer M8	ZW-105-8	M8	8.4	16
Flat Washer M10	ZW-105-10	M10	10.5	20
Flat Washer M12	ZW-105-12	M12	13	24
Flat Washer M16	ZW-105-16	M16	17	30
Flat Washer M20	ZW-105-20	M20	21	37
Flat Washer M24	ZW-105-24	M24	25	44
Flat Washer M27	ZW-105-27	M27	28	50
Flat Washer M30	ZW-105-30	M30	31	56
Flat Washer M33	ZW-105-33	M33	34	60
Flat Washer M36	ZW-105-36	M36	37	66
Flat Washer M39	ZW-105-39	M39	40	72
Flat Washer M42	ZW-105-42	M42	43	78
Flat Washer M45	ZW-105-45	M45	46	85
Flat Washer M48	ZW-105-48	M48	50	92
Flat Washer M52	ZW-105-52	M52	54	98
Flat Washer M56	ZW-105-56	M56	58	105

Threaded Rod

Threaded Rods (ZW-109 Series) are high-strength, continuously threaded fasteners specifically engineered for high-load applications. They provide a versatile solution for heavy-duty anchoring, MEP suspension systems, and structural steel connections. The full-length threading allows for maximum adjustability and secure clamping in both tension and compression environments.



Standard : DIN 975 / DIN 976-1.
Material : Carbon Steel, Stainless Steel.
Finish Available : Electro-Galvanized, Hot Dip Galvanized

Item	Art Number	Thread Size (d)	Pitch (P)
Threaded Rod M6	ZW-109-6	M6	1
Threaded Rod M8	ZW-109-8	M8	1.25
Threaded Rod M10	ZW-109-10	M10	1.5
Threaded Rod M12	ZW-109-12	M12	1.75
Threaded Rod M16	ZW-109-16	M16	2
Threaded Rod M20	ZW-109-20	M20	2.5
Threaded Rod M24	ZW-109-24	M24	3
Threaded Rod M27	ZW-109-27	M27	3
Threaded Rod M30	ZW-109-30	M30	3.5
Threaded Rod M33	ZW-109-33	M33	3.5
Threaded Rod M36	ZW-109-36	M36	4
Threaded Rod M39	ZW-109-39	M39	4
Threaded Rod M42	ZW-109-42	M42	4.5
Threaded Rod M45	ZW-109-45	M45	4.5
Threaded Rod M48	ZW-109-48	M48	5
Threaded Rod M52	ZW-109-52	M52	5
Threaded Rod M56	ZW-109-56	M56	5.5
Threaded Rod M64	ZW-109-64	M64	6
Threaded Rod M72	ZW-109-72	M72	6

Also available with UNC,8UN,UNF and Fine Series Threads

Round Slotted Head Screw (ZW-103)

MATERIAL:

- (CS) Carbon Steel / Mild Steel
- (SS) Stainless Steel: Grade 304 & 316

FINISHES:

- (GI) Zinc Plated as per ASTM B 633
- (HDG) Hot Dip Galvanized to ASTM A153 / BS EN ISO 1461



SL.No	ICMS Part No	Size
1	ZW-103-6	M6
2	ZW-103-8	M8
3	ZW-103-10	M10
4	ZW-103-12	M12
5	ZW-103-16	M16

Square Head pointed Screw (ZW-104)

MATERIAL:

- (CS) Carbon Steel / Mild Steel
- (SS) Stainless Steel: Grade 304 & 316

FINISHES:

- (GI) Zinc Plated as per ASTM B 633
- (HDG) Hot Dip Galvanized to ASTM A153 / BS EN ISO 1461



SL.No	ICMS Part No	Size
1	ZW-104-6	M6
2	ZW-104-8	M8
3	ZW-104-10	M10
4	ZW-104-12	M12
5	ZW-104-16	M16

Flat Fended Washer (ZW-106)



MATERIAL:

- (CS) Carbon Steel / Mild Steel
- (SS) Stainless Steel: Grade 304 & 316

FINISHES:

- (GI) Zinc Plated as per ASTM B 633
- (HDG) Hot Dip Galvanized to ASTM A153 / BS EN ISO 1461

SL.No	ICMS Part No	Size
1	ZW-106-6	M6
2	ZW-106-8	M8
3	ZW-106-10	M10
4	ZW-106-12	M12
5	ZW-106-14	M14
6	ZW-106-16	M16
7	ZW-106-20	M20
8	ZW-106-24	M24
9	ZW-106-30	M30
10	ZW-106-36	M36
11	ZW-106-42	M42

Channel Nut (ZW-113)



MATERIAL:

- (CS) Carbon Steel / Mild Steel
- (SS) Stainless Steel: Grade 304 & 316

FINISHES:

- (GI) Zinc Plated as per ASTM B 633
- (HDG) Hot Dip Galvanized to ASTM A153 / BS EN ISO 1461

SL.No	ICMS Part No	Size
1	ZW-113-6	M6
2	ZW-113-8	M8
3	ZW-113-10	M10
4	ZW-113-12	M12

Lock Washer (ZW-107)



MATERIAL:

- (CS) Carbon Steel / Mild Steel
- (SS) Stainless Steel: Grade 304 & 316

FINISHES:

- (GI) Zinc Plated as per ASTM B 633
- (HDG) Hot Dip Galvanized to ASTM A153 / BS EN ISO 1461

SL.No	ICMS Part No	Size
1	ZW-107-6	M6
2	ZW-107-8	M8
3	ZW-107-10	M10
4	ZW-107-12	M12
5	ZW-107-14	M14
6	ZW-107-16	M16
7	ZW-107-20	M20
8	ZW-107-24	M24
9	ZW-107-30	M30
10	ZW-107-36	M36
11	ZW-107-42	M42

Short Spring Channel Nut (ZW-114)



MATERIAL:

- (CS) Carbon Steel / Mild Steel
- (SS) Stainless Steel: Grade 304 & 316

FINISHES:

- (GI) Zinc Plated as per ASTM B 633
- (HDG) Hot Dip Galvanized to ASTM A153 / BS EN ISO 1461

SL.No	ICMS Part No	Size
1	ZW-114-6	M6
2	ZW-114-8	M8
3	ZW-114-10	M10
4	ZW-114-12	M12

Rod Coupling (ZW-110)



MATERIAL:

- (CS) Carbon Steel / Mild Steel
- (SS) Stainless Steel: Grade 304 & 316

FINISHES:

- (GI) Zinc Plated as per ASTM B 633
- (HDG) Hot Dip Galvanized to ASTM A153 / BS EN ISO 1461

SL.No	ICMS Part No	Size
1	ZW-110-6	M6
2	ZW-110-8	M8
3	ZW-110-10	M10
4	ZW-110-12	M12
5	ZW-110-14	M14
6	ZW-110-16	M16
7	ZW-110-18	M18
8	ZW-110-20	M20
9	ZW-110-24	M24
10	ZW-110-30	M30

Spring Channel Nut (ZW-115)



MATERIAL:

- (CS) Carbon Steel / Mild Steel
- (SS) Stainless Steel: Grade 304 & 316

FINISHES:

- (GI) Zinc Plated as per ASTM B 633
- (HDG) Hot Dip Galvanized to ASTM A153 / BS EN ISO 1461

SL.No	ICMS Part No	Size
1	ZW-115-6	M6
2	ZW-115-8	M8
3	ZW-115-10	M10
4	ZW-115-12	M12

Spring Channel Nut Stud (ZW-116)



MATERIAL:

- (CS) Carbon Steel / Mild Steel
- (SS) Stainless Steel: Grade 304 & 316

FINISHES:

- (GI) Zinc Plated as per ASTM B 633
- (HDG) Hot Dip Galvanized to ASTM A153 / BS EN ISO 1461

SL.No	ICMS Part No	Size
1	ZW-116-6	M6
2	ZW-116-8	M8
3	ZW-116-10	M10
4	ZW-116-12	M12

T-Bolt (ZW-117)



MATERIAL:

- (CS) Carbon Steel / Mild Steel
- (SS) Stainless Steel: Grade 304 & 316

FINISHES:

- (GI) Zinc Plated as per ASTM B 633
- (HDG) Hot Dip Galvanized to ASTM A153 / BS EN ISO 1461

SL.No	ICMS Part No	Size
1	ZW-117-6	M6
2	ZW-117-8	M8
3	ZW-117-10	M10
4	ZW-117-12	M12

Short Spring Channel Nut (ZW-118)



MATERIAL:

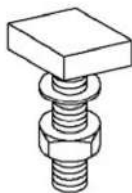
- (CS) Carbon Steel / Mild Steel
- (SS) Stainless Steel: Grade 304 & 316

FINISHES:

- (GI) Zinc Plated as per ASTM B 633
- (HDG) Hot Dip Galvanized to ASTM A153 / BS EN ISO 1461

SL.No	ICMS Part No	Size
1	ZW-118-6	M6
2	ZW-118-8	M8
3	ZW-118-10	M10
4	ZW-118-12	M12

Square T-Bolt (ZW-119)



MATERIAL:

- (CS) Carbon Steel / Mild Steel
- (SS) Stainless Steel: Grade 304 & 316

FINISHES:

- (GI) Zinc Plated as per ASTM B 633
- (HDG) Hot Dip Galvanized to ASTM A153 / BS EN ISO 1461

SL.No	ICMS Part No	Size
1	ZW-119-6	M6
2	ZW-119-8	M8
3	ZW-119-10	M10
4	ZW-119-12	M12

J-Bolt (ZW-120)



MATERIAL:

- (CS) Carbon Steel / Mild Steel
- (SS) Stainless Steel: Grade 304 & 316

FINISHES:

- (GI) Zinc Plated as per ASTM B 633
- (HDG) Hot Dip Galvanized to ASTM A153 / BS EN ISO 1461

SL.No	ICMS Part No	Size
1	ZW-120-6	M6
2	ZW-120-8	M8
3	ZW-120-10	M10
4	ZW-120-12	M12
5	ZW-120-16	M16
6	ZW-120-20	M20
7	ZW-120-24	M24
8	ZW-120-27	M27
9	ZW-120-30	M30
10	ZW-120-33	M33
11	ZW-120-36	M36
12	ZW-120-39	M39
13	ZW-120-42	M42
14	ZW-120-45	M45

Custom sizes are available upon request.

L-Bolt (ZW-121)



MATERIAL:

- (CS) Carbon Steel / Mild Steel
- (SS) Stainless Steel: Grade 304 & 316

FINISHES:

- (GI) Zinc Plated as per ASTM B 633
- (HDG) Hot Dip Galvanized to ASTM A153 / BS EN ISO 1461

SL.No	ICMS Part No	Size
1	ZW-121-6	M6
2	ZW-121-8	M8
3	ZW-121-10	M10
4	ZW-121-12	M12
5	ZW-121-16	M16
6	ZW-121-20	M20
7	ZW-121-24	M24
8	ZW-121-27	M27
9	ZW-121-30	M30
10	ZW-121-33	M33
11	ZW-121-36	M36
12	ZW-121-39	M39
13	ZW-121-42	M42
14	ZW-121-45	M45

Eye Bolt (ZW-122)



MATERIAL:

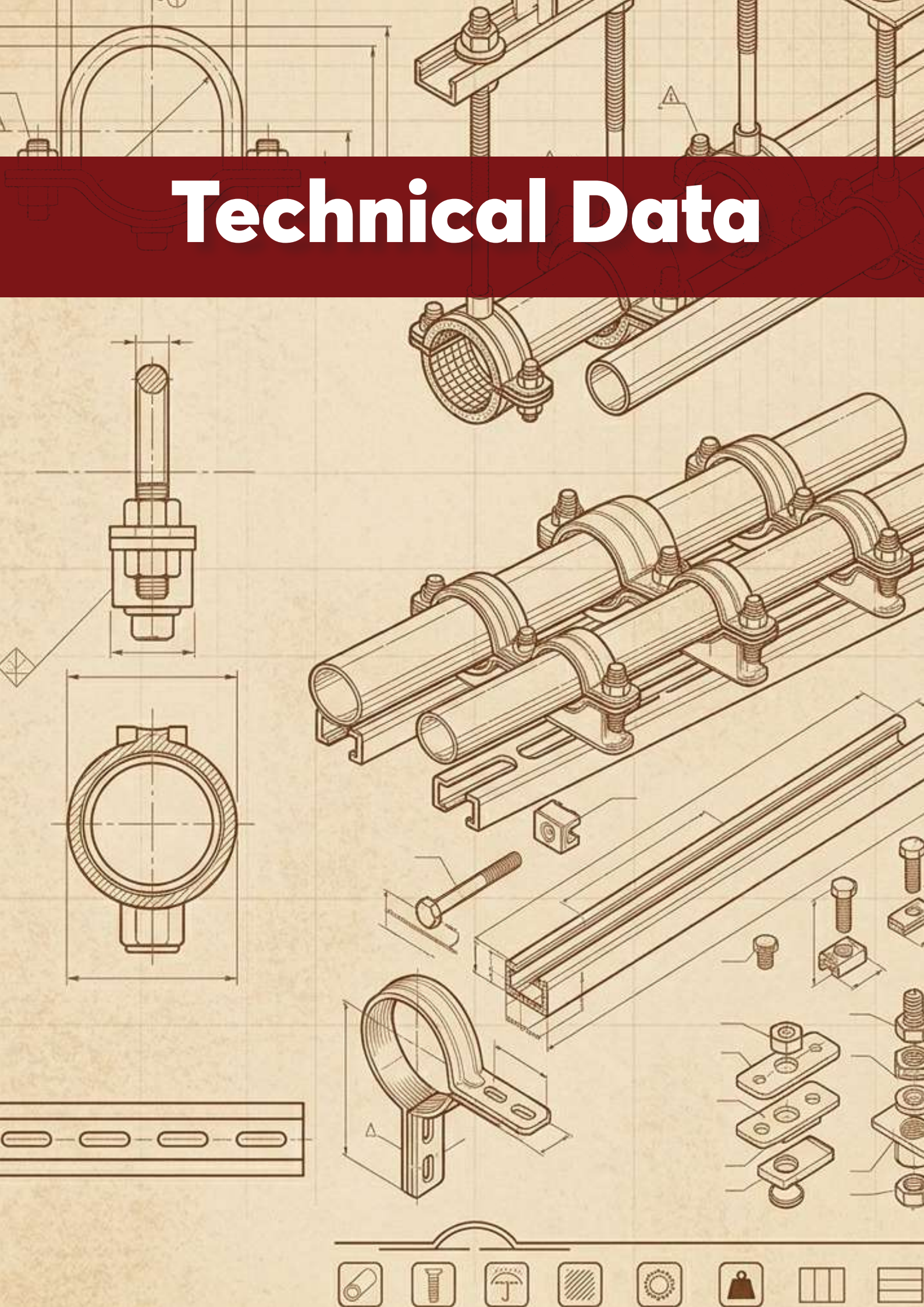
- (CS) Carbon Steel / Mild Steel
- (SS) Stainless Steel: Grade 304 & 316

FINISHES:

- (GI) Zinc Plated as per ASTM B 633
- (HDG) Hot Dip Galvanized to ASTM A153 / BS EN ISO 1461

SL.No	ICMS Part No	Size
1	ZW-122-6	M6
2	ZW-122-8	M8
3	ZW-122-10	M10
4	ZW-122-12	M12
5	ZW-122-16	M16

Technical Data



Schedule 40 Steel Pipe Data

Pipe Size		Outside Diameter		Wall Thickness	Weight of Pipe	Weight Filled with Water
In.	mm	O.D. (In.)	O.D. (mm)	(mm)	(kg/m)	(kg/m)
3/8"	10	0.675	17.1	2.3	0.9	1
1/2"	15	0.84	21.3	2.7	1.2	1.3
3/4"	20	1.05	26.7	2.9	1.7	2
1"	25	1.315	33.4	3.4	2.5	3
1 1/4"	32	1.66	42.1	3.5	3.4	4.3
1 1/2"	40	1.9	48.2	3.7	4	5.3
2"	50	2.375	60.3	3.9	5.4	7.5
2 1/2"	65	2.875	73	5.1	8.6	11.7
3"	80	3.5	88.9	5.5	11.2	15.9
3 1/2"	90	4	101.6	5.7	13.5	19.8
4"	100	4.5	114.3	6	16	24.2
5"	125	5.563	141.3	6.5	21.7	34.6
6"	150	6.625	168.3	7.1	28.2	46.8
8"	200	8.625	219.1	8.2	42.5	74.6
10"	250	10.75	273	9.3	60.2	110.9
12"	300	12.75	323.8	10.3	75.9	151.9
14"	350	14	355.6	11.1	93.7	180.7
16"	400	16	406.4	12.7	123.5	237.3
18"	450	18	457.2	14.3	156.2	300.8
20"	500	20	508	15.1	183	361.8
24"	600	24	609.6	17.4	254.5	513.7

Schedule 80 Steel Pipe Data

Pipe Size		Outside Diameter		Wall Thickness	Weight of Pipe	Weight Filled with Water
In.	mm	O.D. (In.)	O.D. (mm)	(mm)	(kg/m)	(kg/m)
3/8"	10	0.675	17.1	3.2	1.1	1.2
1/2"	15	0.84	21.3	3.7	1.6	1.7
3/4"	20	1.05	26.7	3.9	2.2	2.5
1"	25	1.315	33.4	4.5	3.2	3.6
1 1/4"	32	1.66	42.1	4.8	4.4	5.2
1 1/2"	40	1.9	48.2	5.1	5.4	6.5
2"	50	2.375	60.3	5.5	7.5	9.4
2 1/2"	65	2.875	73	7	11.4	14.1
3"	80	3.5	88.9	7.6	15.2	19.4
3 1/2"	90	4	101.6	8.1	18.6	24.3
4"	100	4.5	114.3	8.5	22.3	29.7
5"	125	5.563	141.3	9.5	30.9	42.6
6"	150	6.625	168.3	11	42.5	59.3
8"	200	8.625	219.1	12.7	64.5	93.9
10"	250	10.75	273	15	95.8	142.1
12"	300	12.75	323.8	17.4	131.8	197.3
14"	350	14	355.6	19	159.2	235.4
16"	400	16	406.4	21.4	203.9	306.6
18"	450	18	457.2	23.8	254.5	386.2
20"	500	20	508	26.2	311	473.8
24"	600	24	609.6	30.9	442	677.4

Dimensions taken from ASTM A53-86 | 1 cubic meter of water weighs: 999.97 kg. | 1 litre weighs: 0.999 kg.

Schedule 40 PVC Plastic Pipe Data

Pipe Size		Outside Diameter		Wall Thickness	Weight of Pipe	Weight Filled with Water
In.	mm	O.D. (In.)	O.D. (mm)	(mm)	(kg/m)	(kg/m)
1/8"	3	0.405	10.3	1.7	0.06	0.09
1/4"	6	0.54	13.7	2.2	0.11	0.17
3/8"	10	0.675	17.1	2.3	0.14	0.26
1/2"	15	0.84	21.3	2.7	0.2	0.4
3/4"	20	1.05	26.7	2.9	0.3	0.6
1"	25	1.315	33.4	3.4	0.4	0.9
1 1/4"	32	1.66	42.1	3.5	0.6	1.5
1 1/2"	40	1.9	48.2	3.7	0.7	2
2"	50	2.375	60.3	3.9	0.9	3
2 1/2"	65	2.875	73	5.1	1.5	4.51
3"	80	3.5	88.9	5.5	2	6.7
3 1/2"	90	4	101.6	5.7	2.4	8.7
4"	100	4.5	114.3	6	2.8	11
5"	125	5.563	141.3	6.5	4.1	17
6"	150	6.625	168.3	7.1	4.9	23
8"	200	8.625	219.1	8.2	7.8	39.9
10"	250	10.75	273	9.3	11.1	61.8
12"	300	12.75	323.8	10.3	14.9	87

Schedule 80 PVC Plastic Pipe Data

Pipe Size		Outside Diameter		Wall Thickness	Weight of Pipe	Weight Filled with Water
In.	mm	O.D. (In.)	O.D. (mm)	(mm)	(kg/m)	(kg/m)
1/8"	3	0.405	10.3	2.4	0.08	0.1
1/4"	6	0.54	13.7	3	0.14	0.2
3/8"	10	0.675	17.1	3.2	0.19	0.28
1/2"	15	0.84	21.3	3.7	0.2	0.3
3/4"	20	1.05	26.7	3.9	0.4	0.7
1"	25	1.315	33.4	4.5	0.5	0.9
1 1/4"	32	1.66	42.1	4.8	0.8	1.6
1 1/2"	40	1.9	48.2	5.1	0.9	2
2"	50	2.375	60.3	5.5	1.3	3.2
2 1/2"	65	2.875	73	7	2	4.7
3"	80	3.5	88.9	7.6	2.7	6.9
3 1/2"	90	4	101.6	8.1	3.2	8.9
4"	100	4.5	114.3	8.5	3.9	11.3
5"	125	5.563	141.3	9.5	6.1	17.8
6"	150	6.625	168.3	11	7.5	24.3
8"	200	8.625	219.1	12.7	11.9	41.3
10"	250	10.75	273	15	17.7	77.6
12"	300	12.75	323.8	17.4	24.3	89.8

1 cubic meter of water weighs: 999.97 kg.

1 litre weighs: 0.999 kg.

Recommended Maximum Spacing for Standard Steel Pipe Hangers

Normal Pipe or Dia	Water Service (Ft)	Water Service (M*)	Vapour Service (Ft)	Vapour Service (M*)
1/4"	7	2.1	8	2.4
3/8"	7	2.1	8	2.4
1/2"	7	2.1	8	2.4
3/4"	7	2.1	9	2.7
1"	7	2.1	9	2.7
1-1/4"	7	2.1	9	2.7
1-1/2"	9	2.7	12	3.7
2"	10	3	13	4
2-1/2"	11	3.4	14	4.3
3"	12	3.7	15	4.6
3-1/2"	13	4	16	4.9
4"	14	4.3	17	5.2
5"	16	4.9	19	5.8
6"	17	5.2	21	6.4
8"	19	5.8	24	7.3
10"	20	6.1	26	7.9
12"	23	7	30	9.1
14"	25	7.6	32	9.8
16"	27	8.2	35	10.7
18"	28	8.5	37	11.3
20"	30	9.1	39	11.9
24"	32	9.8	42	12.8
30"	33	10.4	44	13.4

Based on Recommended Spacing for Standard Weight Steel Pipe per MSS SP-69 and ASME B31.1 guidelines.

These spacings do not apply where span calculations are made or where there are concentrated loads between supports such as Flanges, Valves, Specialties, etc., or changes in direction requiring additional supports.

Spacing of Hangers for Schedule 40 PVC Plastic Pipe

Temperature		Support Spacing in Ft.(Meter)						
		1/2"-3/4" (15-20)	1"-1-1/4" (25-32)	1-1/2"-2" (40-50)	2-1/2" (65)	3" (80)	4" (100)	6" (150)
20 °F	(-6.6 °C)	5.00 ft (1.52m)	5.50 ft (1.67m)	5.80 ft (1.77m)	6.66 ft (2.03m)	6.80 ft (2.07m)	7.33 ft (2.23m)	7.80 ft (2.38m)
40 °F	(4.4 °C)	4.75 ft (1.45m)	5.25 ft (1.60m)	5.50 ft (1.67m)	6.33 ft (1.93m)	6.50 ft (1.98m)	7.00 ft (2.13m)	7.50 ft (2.28m)
60 °F	(15.5 °C)	4.50 ft (1.37m)	5.00 ft (1.52m)	5.25 ft (1.60m)	6.00 ft (1.83m)	6.25 ft (1.90m)	6.50 ft (1.98m)	7.00 ft (2.13m)
80 °F	(26.6 °C)	4.25 ft (1.29m)	4.66 ft (1.42m)	5.00 ft (1.52m)	5.50 ft (1.67m)	5.80 ft (1.83m)	6.25 ft (1.90m)	6.80 ft (2.07m)
100 °F	(37.8 °C)	4.00 ft (1.22m)	4.33 ft (1.32m)	4.66 ft (1.42m)	5.25 ft (1.60m)	5.50 ft (1.67m)	5.80 ft (1.77m)	6.33 ft (1.93m)
110 °F	(43.3 °C)	3.75 ft (1.14m)	4.00 ft (1.22m)	4.33 ft (1.32m)	4.80 ft (1.46m)	5.25 ft (1.60m)	5.50 ft (1.67m)	5.80 ft (1.77m)
120 °F	(48.9 °C)	3.33 ft (1.01m)	3.75 ft (1.14m)	3.80 ft (1.16m)	4.50 ft (1.37m)	4.75 ft (1.45m)	5.00 ft (1.52m)	5.33 ft (1.62m)
130 °F	(54.4 °C)	3.00 ft (0.91m)	3.33 ft (1.01m)	3.50 ft (1.06m)	4.00 ft (1.22m)	4.25 ft (1.29m)	4.50 ft (1.37m)	4.80 ft (1.46m)
140 °F	(60.0 °C)	2.66 ft (0.81m)	2.80 ft (0.85m)	3.00 ft (0.91m)	3.50 ft (1.06m)	3.66 ft (1.11m)	3.80 ft (1.16m)	4.25 ft (1.29m)
150 °F	(65.5 °C)	2.00 ft (0.61m)	2.25 ft (0.68m)	2.50 ft (0.76m)	2.80 ft (0.85m)	3.00 ft (0.91m)	3.25 ft (0.99m)	3.50 ft (1.06m)

Spacing of Hangers for Schedule 80 PVC Plastic Pipe

Temperature		Support Spacing in Ft.(Meter)						
		1/2"-3/4" (15-20)	1"-1-1/4" (25-32)	1-1/2"-2" (40-50)	2-1/2" (65)	3" (80)	4" (100)	6" (150)
20 °F	(-6.6 °C)	5.75 ft (1.75m)	6.33 ft (1.93m)	6.66-7.00 ft (2.13m)	7.80 ft (2.38m)	8.20 ft (2.50m)	8.66 ft (2.64m)	9.80 ft (2.99m)
40 °F	(4.4 °C)	5.50 ft (1.67m)	6.00 ft (1.83m)	6.33-6.50 ft (1.98m)	7.50 ft (2.28m)	7.75 ft (2.36m)	8.25 ft (2.51m)	9.33 ft (2.84m)
60 °F	(15.5 °C)	5.25 ft (1.60m)	5.75 ft (1.75m)	6.00-6.25 ft (1.90m)	7.00 ft (2.13m)	7.33 ft (2.23m)	7.80 ft (2.38m)	8.80 ft (2.68m)
80 °F	(26.6 °C)	4.80 ft (1.46m)	5.33 ft (1.62m)	5.66-6.00 ft (1.83m)	6.66 ft (2.03m)	7.00 ft (2.13m)	7.33 ft (2.23m)	8.33 ft (2.54m)
100 °F	(37.8 °C)	4.50 ft (1.37m)	5.00 ft (1.52m)	5.25-5.50 ft (1.67m)	6.33 ft (1.93m)	6.50 ft (1.98m)	6.80 ft (2.07m)	7.80 ft (2.38m)
110 °F	(43.3 °C)	4.33 ft (1.32m)	4.60 ft (1.40m)	4.80-5.12 ft (1.56m)	5.80 ft (1.77m)	6.00 ft (1.83m)	6.33 ft (1.93m)	7.33 ft (2.23m)
120 °F	(48.9 °C)	3.80 ft (1.16m)	4.33 ft (1.32m)	4.50-4.75 ft (1.45m)	5.33 ft (1.62m)	5.50 ft (1.67m)	5.80 ft (1.77m)	6.50 ft (1.98m)
130 °F	(54.4 °C)	3.50 ft (1.06m)	3.80 ft (1.16m)	4.00-4.33 ft (1.32m)	4.75 ft (1.45m)	5.00 ft (1.52m)	5.25 ft (1.60m)	6.00 ft (1.83m)
140 °F	(60.0 °C)	3.00 ft (0.91m)	3.33 ft (1.01m)	3.50-3.66 ft (1.11m)	4.25 ft (1.29m)	4.33 ft (1.32m)	4.66 ft (1.42m)	5.12 ft (1.56m)
150 °F	(65.5 °C)	2.50 ft (0.76m)	2.75 ft (0.84m)	3.00-3.12 ft (0.95m)	3.33 ft (1.01m)	3.50 ft (1.06m)	3.75 ft (1.14m)	4.25 ft (1.29m)

The increased spacing for PVC plastic pipes is based on supporting fluid loads up to a specific gravity of 1.35 (85 lb/ft or 1,361 kg/m), and does not account for concentrated loads.

Surface Protection & Galvanizing Specifications

Standard Compliance: ISO 1461:2022(E)

Process: Hot-Dip Galvanizing (HDG)

1. Minimum Coating Requirements (General Articles)

Minimum galvanized coating thickness and mass on samples that are not centrifuged

Article and its thickness	Local galvanized coating thickness (minimum) μm	Local galvanized coating mass (minimum) g/m ²	Mean galvanized coating thickness (minimum) μm	Mean galvanized coating mass (minimum) g/m ²
Steel: > 6 mm	70	505	85	610
Steel: > 3 mm to $\leq$ 6 mm	55	395	70	505
Steel: $\geq$ 1,5 mm to $\leq$ 3 mm	45	325	55	395
Steel: < 1,5 mm	35	250	45	325
Castings: > 6 mm	70	505	80	575
Castings: $\leq$ 6 mm	60	430	70	505

Note: This table is for general use: individual product standards can include different requirements including different categories of thickness. Local and mean galvanized coating mass requirements are set out in this table for reference in such cases of dispute.

Minimum galvanized coating thickness and mass on samples that are centrifuged

Article and its thickness	Local galvanized coating thickness (minimum) μm	Local galvanized coating mass (minimum) g/m ²	Mean galvanized coating thickness (minimum) μm	Mean galvanized coating mass (minimum) g/m ²
Articles with threads:				
> 6 mm diameter	40	285	50	360
$\leq$ 6 mm diameter	20	145	25	180
Other articles (including castings):				
$\geq$ 3 mm	45	325	55	395
< 3 mm	35	250	45	325



ICMS Production Facility - Mesaieed - Qatar



"SPECIALITY IS OUR STRENGTH"



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