

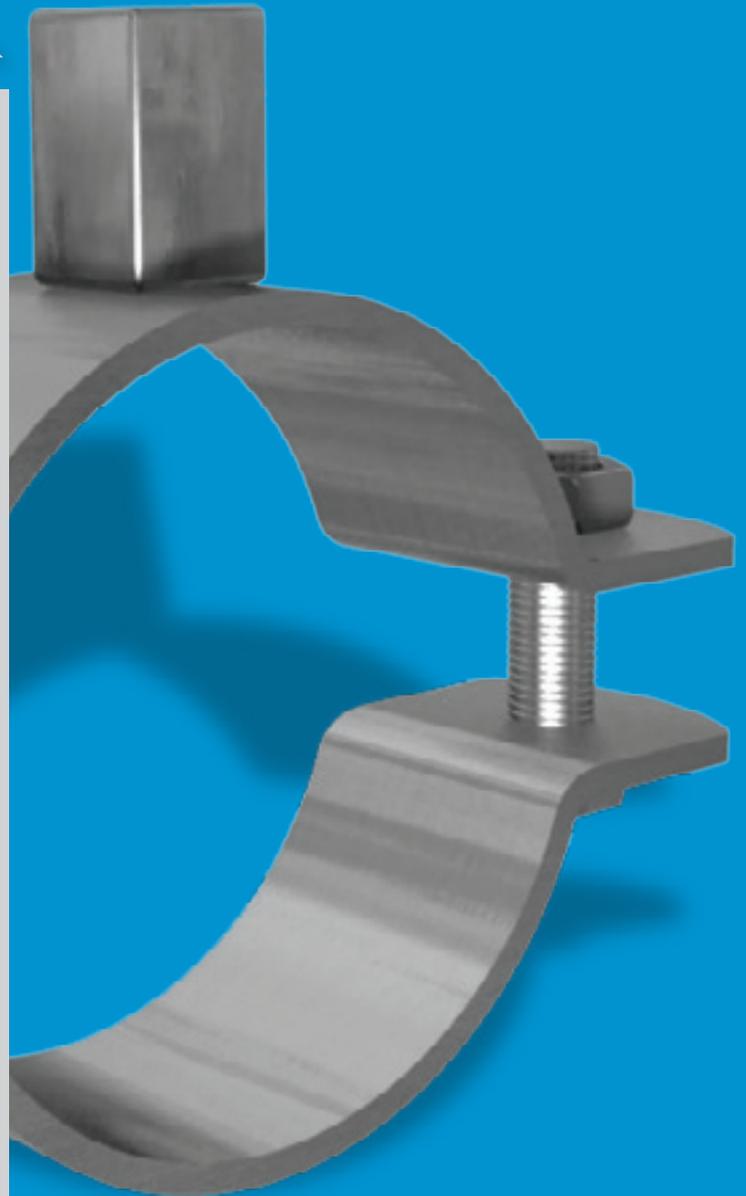
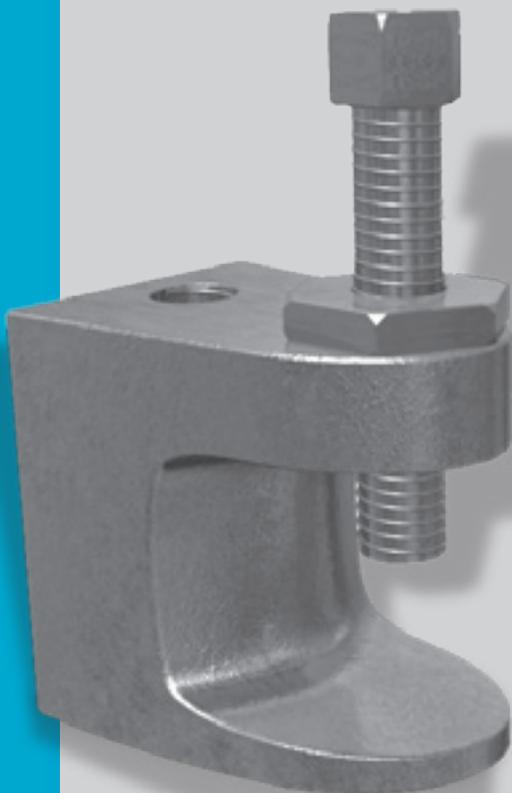
# PIPE CLAMPS AND HANGERS CATALOGUE

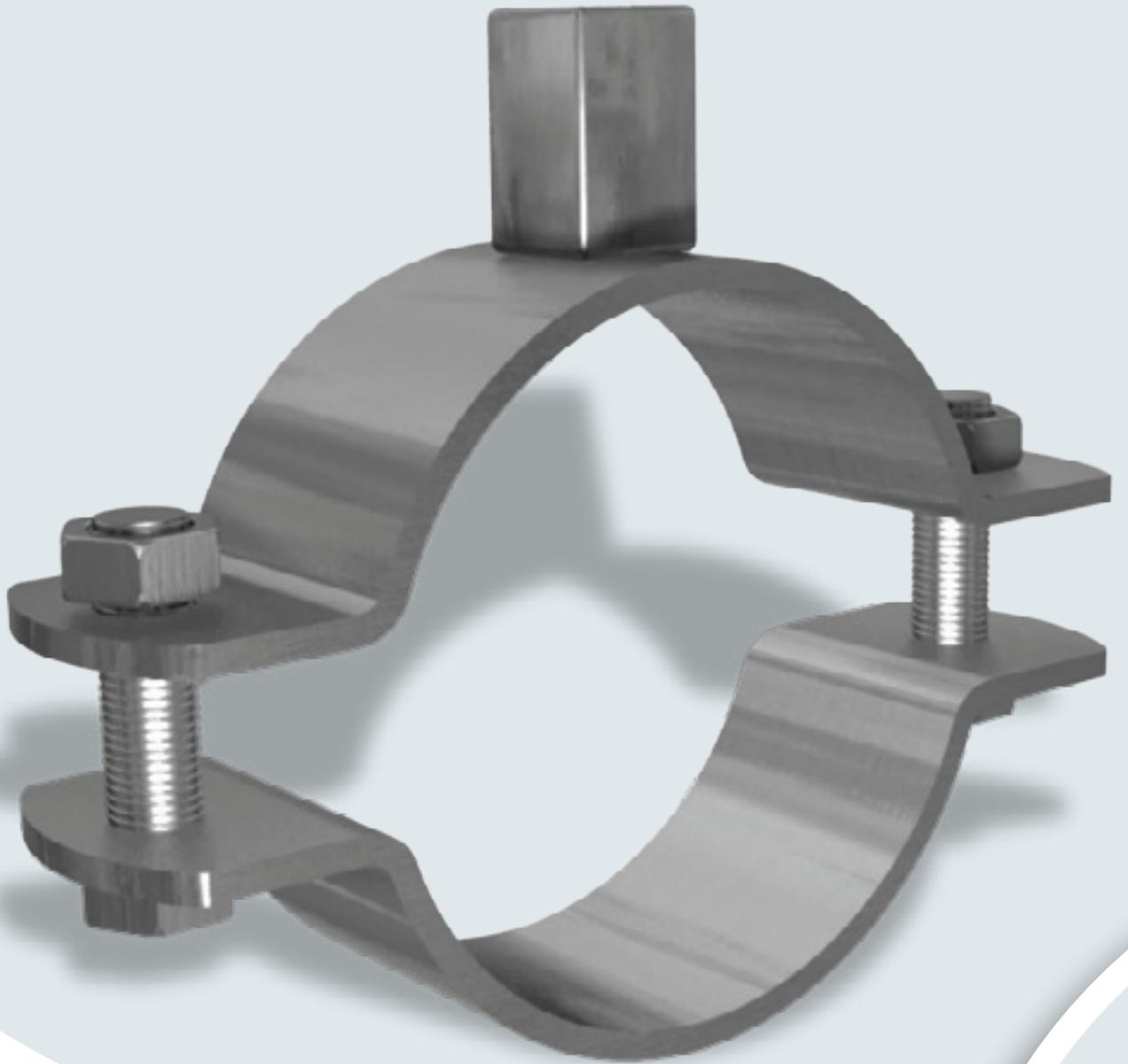


**SFSP**  
Specialized Factory  
for Steel Products /s.a.r.l  
[www.sfsp-lebanon.com](http://www.sfsp-lebanon.com)

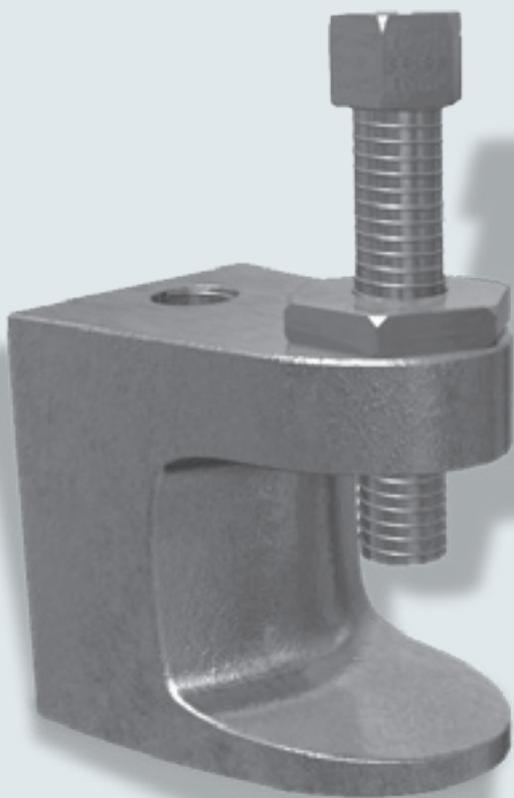
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# ABOUT SFSP





**SFSP**

Specialized Factory

for Steel Products /s.a.r.l

[www.sfsp-lebanon.com](http://www.sfsp-lebanon.com)

Specialized Factory for Steel Products is a leading factory in Lebanon, established in the year 2011 to serve the steel construction products industry in Lebanon and the region.

Production at the factory is observed using modern practices of manufacturing methods in the steel construction industry with a definite compliance to international standards of fabrication.

SFSP adapts quickly and easily to market demands and requirements. The factory is operating a top of the line production machinery, automated with high technology to ensure quality and maintain speed with delicacy.

Quality at SFSP is uncompromised; the factory is working as per ISO 9001: 2008 Quality Management System, with care for the safety of its workers and clients as well as the welfare of its society by acknowledging the environmental key issues, trying to maintain a pollution-free production facility

## TECHNICAL SERVICES

A crucial factor in the job of a factory is to provide continuous technical services and consultations.

That's why SFSP has invested in a professional team of researchers and specialists.

SFSP has recruited brilliant graduates and experienced engineers having the appropriate knowhow on the on latest technology changes and development in the steel building materials industry.

The product range is developed and updated according to the relevant standards of fabrication across markets, whilst the business processes are evaluated to achieve maximum efficiency.

### **SFSP R&D Core Objectives**

- Carry out responsibilities effectively in a safe and healthy work environment.
- Develop and implement research programs relevant to the products and solutions introduced and ensure that the results are communicated clearly in-house and among the clients , concisely and accurately.

## SOCIAL RESPONSIBILITY

Being socially responsible is a part of who we are and how we do our business. We aim to provide useful products and services, to provide jobs and development opportunities for our communities, and to gain satisfaction through meaningful work.

We make a difference by acting on the values and principles of our societies and we inspire others to do so. At SFSP, we anticipate and reduce threats caused by environmental changes or natural disasters, and we are well adapted to significant social changes.

We contribute to a more sustainable society by means of value and support to our consumers, supply chains, and stakeholders. We are keen to identify ways they can improve our impacts on the people and places we work and live in, and thereby become more valuable and valued members of society.

- Organizational governance: We promote accountability and transparency at all levels, thus, promoting responsibility
- Human care: We treat individuals with respect; and make efforts to help members of vulnerable groups
- Labor practices: We provide just, safe and favorable conditions to workers
- Environment: At SFSP, we identify and improve environmental impacts of our operations, including the resource use of natural resources and waste disposal.
- Fair operating practices: Practicing accountability and fairness in dealings with other businesses

At SFSP, we are committed to continuous improvement ongoing learning, process review and innovative thinking that foster new initiatives; and better practices. Our environmental programs evolve to meet today's changing needs while; protecting resources for future; generations.



# ENVIRONMENTAL AWARENESS

**SFSP is committed to the following:**

- Compliance with all statutory and regulatory requirements related to its activities, products and services and the environmental aspects.
- Identifying quality and environmental objectives by review and audit of the processes both in-house and on-site.
- Formally setting objectives based on the results of the process reviews and their significance in relation to their impact on the environment and the continual improvement of the quality and environmental management system.
- Implementing management programs to achieve these objectives.
- Investing in a well-trained and motivated workforce.
- Working closely with suppliers and customers to ensure mutual understanding and benefits of the environmental aspects consideration.
- Reviewing our policy and objectives as part of the Management Review Process.
- Communicating this policy to all persons working for or on behalf of the organization.
- Preventing and minimizing Pollution to the environment.



## LOCATION

### SFSP / Lebanon

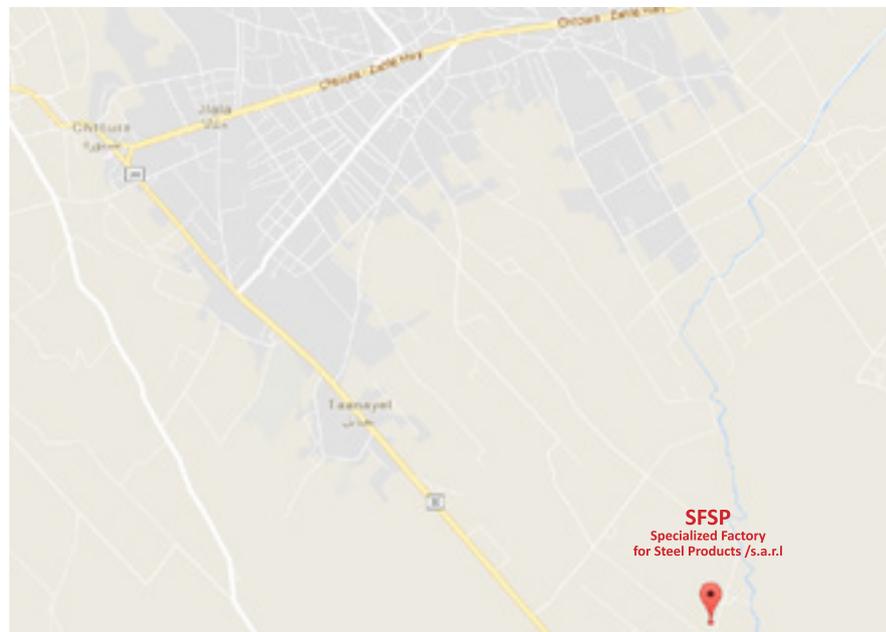
management@sfsp-lebanon.com

Specialized Factory for Steel Products / s.a.r.l

Tanayel, Bekaa

Tel: +961 8 514 290

Fax: +961 8 514 291



# HEALTH AND SAFETY

The Factory Management regard the health and safety of the employees, clients and all others that may be affected by their operations to be of a major importance.

In support of this, the management promotes health and safety throughout the Factory's operations and endeavour to engender a positive attitude in all employees towards the prevention of accidents and maintenance of healthy working arrangements.

The Factory satisfies the requirements of the Health, Safety and related legislation by setting out the responsibilities of all levels of staff and the arrangements for carrying out those responsibilities and in particular do what is reasonably practicable to:

1. Maintains safe & healthy working conditions.
2. Ensures that all facilities and equipment are safe and properly maintained.
3. Provides products that can be applied and used safely and without risk to health.
4. Provides and maintain working procedures, that are safe and without risk to health, throughout the its operations in respect of:
  - The use, handling, storage, transports and disposal of materials and substances.
  - The use of factory equipment.
  - Potential emergency situations, including first aid, fire and escape of substances.
5. Ensure the competence of employees.



SFSP facilities are equipped with advanced machinery amongst are Cable Management Production Lines, Steel cladding systems production lines, metal lathes and blockwork production line, garbage and linen chutes production line, and also partition and ceiling profiles production capacity, and Computerized Numerical Cut machines to ensure delicacy and speed of delivery.



# SFSP PRODUCTS

SFSP produces a variety of products ranging from cable management systems; cable trays, cable ladders, basket trays, trunkings and support systems, to mechanical cladding fixations, steel lintels and block work accessories, plasterers' beads, expanded metal and block work reinforcement, strut channel systems, pipe clamps & hangers, gypsum profiles as well as garbage and linen chutes. With the introduction of new machines and the enhancement of production methods, SFSP continues to develop its production methods systematically as well as thoroughly.

## CABLE TRAYS & ACCESSORIES

Cable Trays are designed to meet most requirements of cable and electrical wire installations and comply to local and international standards of fabrications and finishes.



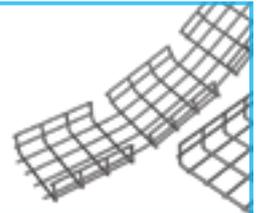
## CABLE LADDERS (WELDED & SWAGED)

Cable Ladders of different side heights are available upon request.



## BASKET TRAYS & ACCESSORIES

SFSP's Basket Tray systems make connections fast and simple with limited need for tools. Its design allows for continuous airflow, and prevents heating up of cables. SFSP's Basket Tray comes in a full range of sizes and is made with high-strength welded steel wires.



## CABLE TRUNKINGS

Cable Trunkings and Accessories are offered in a comprehensive range. Mill galvanized, hot-dip galvanized, and powder coated are the various finishes produced in our factories.



## UNDERFLOOR TRUNKING

Underfloor Trunking Systems solutions incorporate a range of products for the distribution of power and data services , it is a coordinated set of containments that protect, segregate, contain, and route cables within a given environment.



## CABLE MANAGEMENT SUPPORT SYSTEMS

Cable Support Systems are well designed to provide necessary support for cable trays, cable ladders and trunkings. Cable supports are manufactured according to common standards from high quality raw materials.



## C-CHANNEL STRUT SYSTEMS

SFSP's Metal Framing Systems provide an economical solution for electrical, mechanical and industrial supports with a wide variety of applications in the construction industry.

Applications: - Pipe and Conduit Supports - Tunnel Pipe Stanchions - Racks and Shelvings - Wall Framings.



### EXPANDED METALS, PLASTERERS' BEADS

Expanded Metals help the formation of joints, protection of corners and resistance against cracks, chips and impact damage.

### BLOCK LADDER REINFORCEMENT

SFSP ladder and truss types are used for the reinforcement of brick and block masonry to give improved tensile strength to walls subjected to lateral loading e.g. wind and seismic. SFSP block reinforcements reduces the risk of cracking either at stress concentration around opening.

### STEEL LINTELS & BLOCK WORK ACCESSORIES

Steel Lintels provide a combination of strength and light weight, resulting in efficient load bearing performance and increased productivity on site. They are characterized by their ease of installation in addition to time as well as money saving.



### PIPE CLAMPS & HANGERS

Pipe Clamps and Hangers from SFSP used in the support of pipes and equipments are manufactured according to the highest standards of fabrication. A diversified choice of Pipe Hangers, Pipe Clamps, EMT Straps, Omega Clamps, Beam Clamps, J and U-Bolts and Threaded Accessories.



### MARBLE & GRANITE FIXINGS

Stangle Cladding Fixation includes design, calculation and production of several types of mechanical fixings and accessories used for cladding purposes. Stainless and galvanized steel are among the various materials used in the fabrication.



### DRY WALL & CEILING PROFILES

SFSP provides a complete product range for dry wall and ceiling constructions. Studs, Runners, Furring Channels, Ceiling Channels and Wall Angles are among the range of products produced to service the dry wall installers.



### GARBAGE & LINEN CHUTES

Chutes from SFSP are very convenient, simple and low cost method of controlling and disposing of refuse and linen. Chutes meet the most stringent requirements of environmental health and safety. Chutes are used as original equipment in new buildings, such as : Hotels, Hospitals, High Rises and Residential Towers.



### EXPANSION JOINTS COVERS

SFSP manufactures architectural lines of thermal, seismic, waterproof, and fire-rated expansion joint systems meeting aesthetic and structural demands of multiple projects including airports, hospitals, commercial and residential buildings, shopping malls, and several other structural types

Materials used in SFSP expansion joints systems includes 6063 Aluminum, Rubber (Natural and Neoprene), Stainless Steel, TPE.



## PIPE CLAMPS & HANGERS

Pipe Clamps and Hangers from SFSP used in the support of pipes and equipments are manufactured according to the highest standards of fabrication. A diversified choice of Pipe Hangers, Pipe Clamps, EMT Straps, Omega Clamps, Beam Clamps, J and U-Bolts and Threaded Accessories.

Calculations are provided by our design office in Stuttgart, Germany.

### APPLICABLE STANDARDS

- BS 3974 Specifications for pipe hangers and support
- ASTM F 708 (standard practice for design and installation of rigid pipe hangers)
- Federal Specifications  
WW-H-171 E (Hanger and Support)  
A-A-1192 A (Bracket, Pipe)

- Manufacturers Standardization Society (MSS)

ANSI/MSS SP-58 Pipe Hangers and Supports

- Materials, Design, Manufacture, Selection, Application, and Installation

MSS SP-69 Pipe Hangers and Support-Selection and Application

MSS SP-77 Guidelines for Pipe Support Contractual Relationships

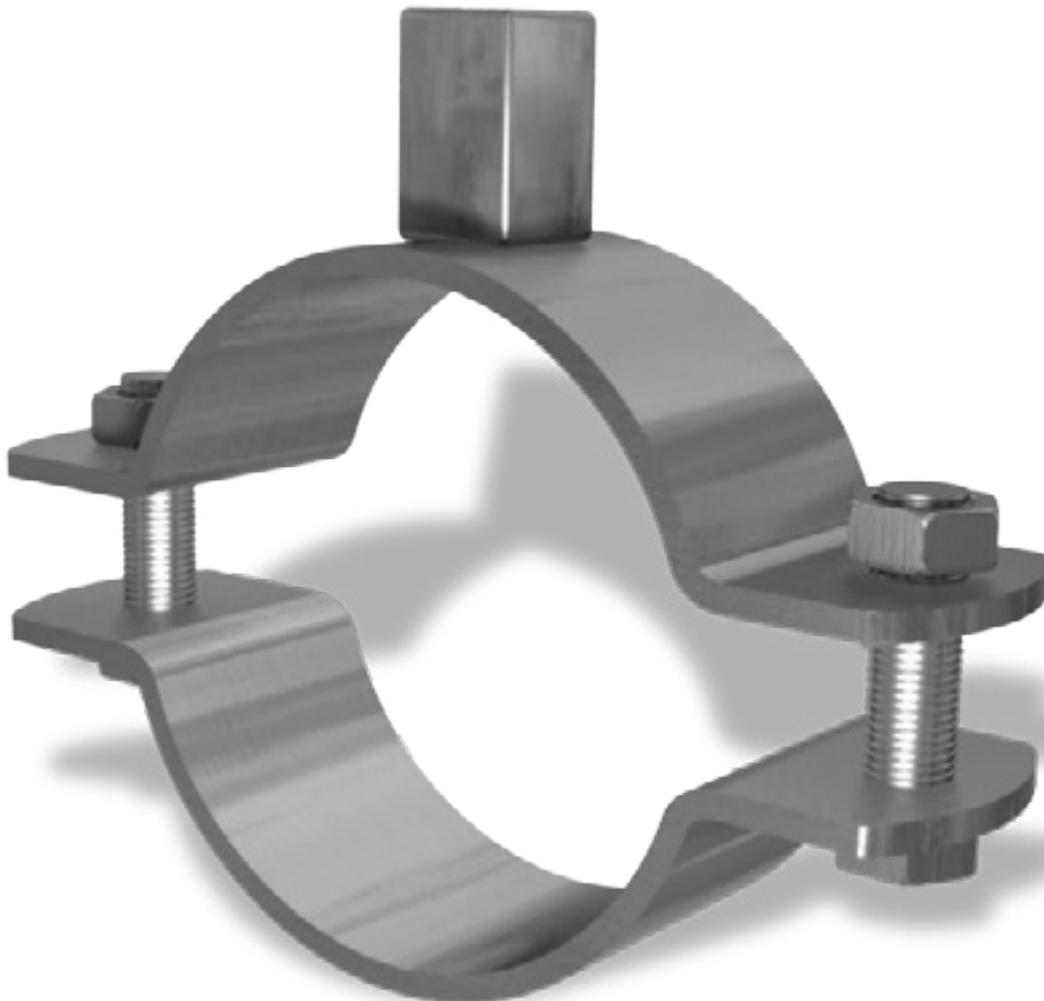
MSS SP-89 Pipe Hangers and Support-Fabrication and Installation Practices

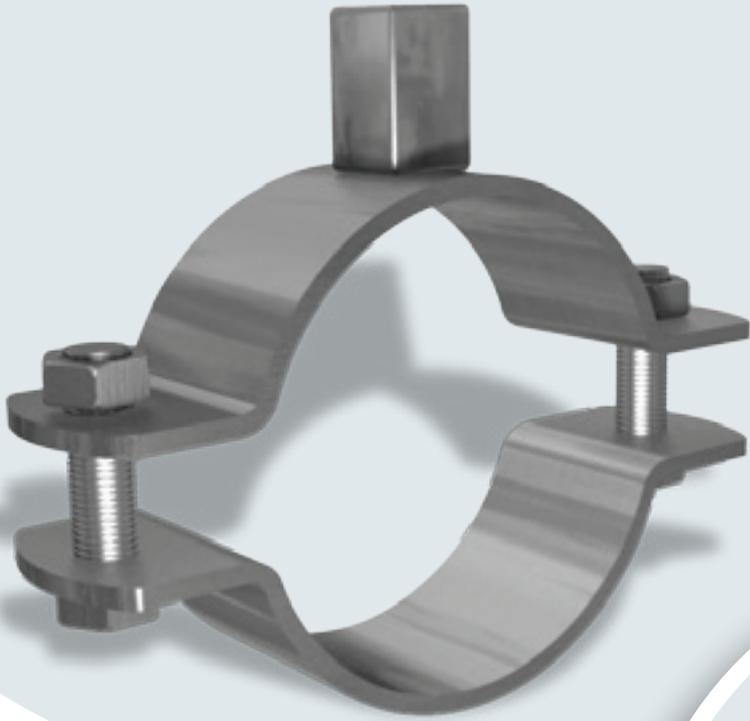
MSS SP-90 Guidelines for Terminology for Pipe Hangers and Support

MSS SP-127 Bracing for Piping Systems Seismic - Wind - Dynamic Design, Selection, Application

Pipe hangers offered in this section are designed to support pipes allowing for vertical adjustment and limited movement in the piping system.

- Material: Carbon Steels are used in the manufacturing of pipe hangers.
- Load Data: The load data published includes a safety factor of 4.0 unless noted (safety factor = ratio of ultimate load to the design load).

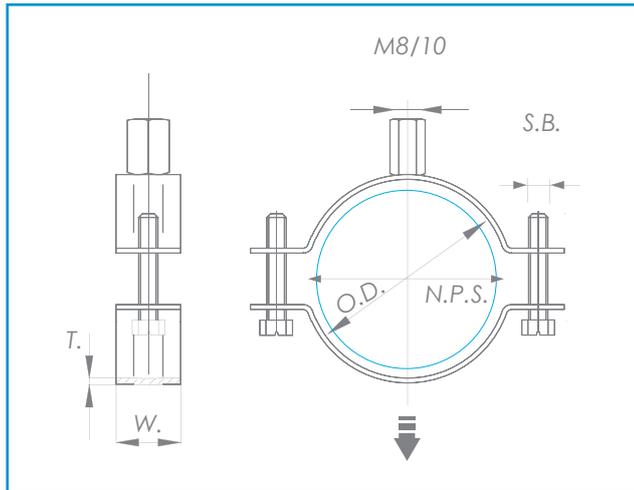
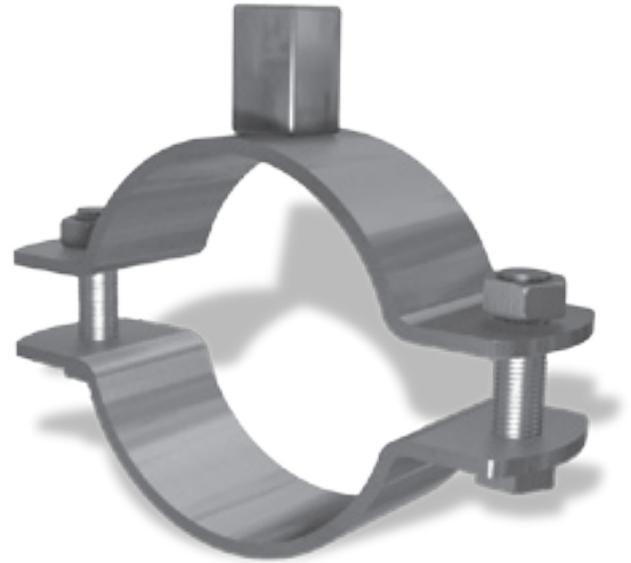




# PIPE CLAMPS & HANGERS

## Split Pipe Clamp with Long Nut M8/ M10 without rubber gasket

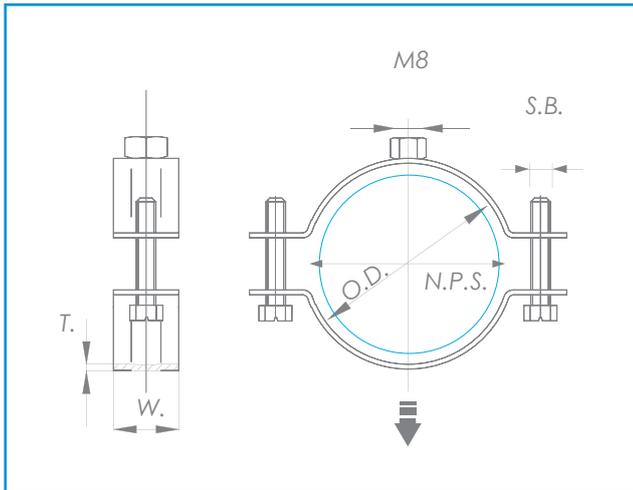
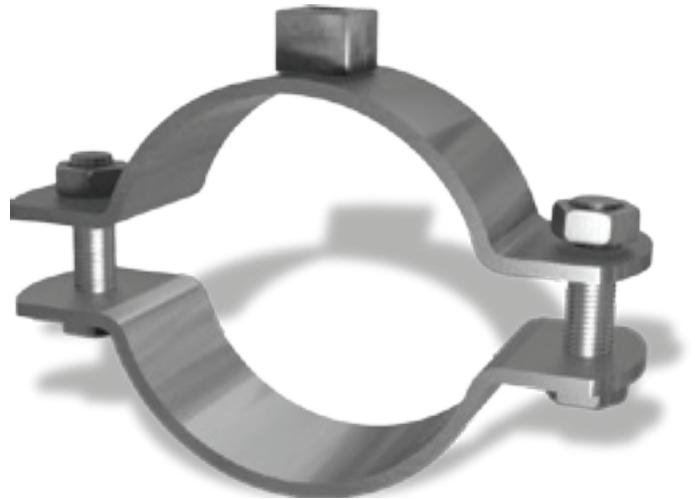
- **Material:** Steel S235
- **Service:** Multifunction screw with hexagonal combination head (slot & crosshead), c/ w retaining washer
- **Finish:** Electro Zinc Plated
- **Applications:**
  - Fresh water distribution pipes
  - Waste water distribution pipes
  - Gas distribution pipes
  - Heating pipes
  - Industrial pipe fitting
  - Mechanical installation
  - Process and control lines



Nominal Pipe Size		Outside Diameter	Side Bolt	Thickness & Width	Load Capacity	Material
In	mm	mm	mm	mm	KN	
1/2	15	20-25	M6x20	2.0x20	1.30	GA
3/4	20	26-30	M6x20	2.0x20	1.30	GA
1	25	32-36	M6x20	2.0x20	1.30	GA
5/4	32	38-45	M6x20	2.0x20	1.30	GA
3/2	40	47-51	M6x20	2.0x20	1.30	GA
2	50	60-64	M6x20	2.0x20	1.30	GA
5/2	65	74-80	M6x20	2.5x20	1.90	GA
3	80	87-92	M6x20	2.5x20	1.90	GA
4	100	113-118	M6x20	2.5x20	1.90	GA
5	125	138-142	M6x20	2.5x20	1.90	GA
6	150	159-166	M6x30	2.5x20	1.90	GA
1/2	15	20-25	M6x20	2.0x20	1.30	G
3/4	20	26-30	M6x20	2.0x20	1.30	G
1	25	32-36	M6x20	2.0x20	1.30	G
5/4	32	38-45	M6x20	2.0x20	1.30	G
3/2	40	47-51	M6x20	2.0x20	1.30	G
2	50	60-64	M6x20	2.0x20	1.30	G
5/2	65	74-80	M6x20	2.5x20	1.90	G
3	80	87-92	M6x20	2.5x20	1.90	G
4	100	113-118	M6x20	2.5x20	1.90	G
5	125	138-142	M6x20	2.5x20	1.90	G
6	150	159-166	M6x30	2.5x20	1.90	G

# Split Pipe Clamp with Standard Nut M8 without rubber gasket

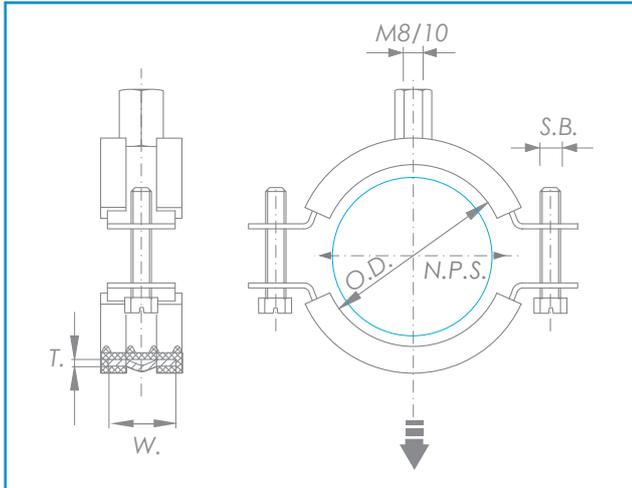
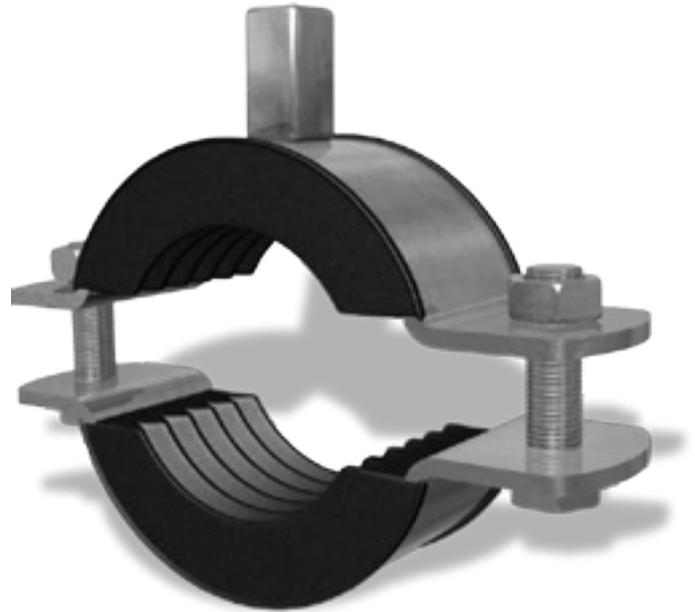
- **Material:** Steel S235
- **Service:** Economy option
- **Finish:** Electro Zinc Plated
- **Applications:**
- Unassembled in plastic bags per 2 sets
- M6 screw with cross head



Nominal Pipe Size		Outside Diameter	Side Bolt	Thickness & Width	Load Capacity	Material
In	mm	mm	mm	mm	KN	
1/2	15	20-25	M6x20	2.0x20	1.30	GA
3/4	20	26-30	M6x20	2.0x20	1.30	GA
1	25	32-36	M6x20	2.0x20	1.30	GA
5/4	32	38-45	M6x20	2.0x20	1.30	GA
3/2	40	47-51	M6x20	2.0x20	1.30	GA
2	50	60-64	M6x20	2.0x20	1.30	GA
5/2	65	74-80	M6x20	2.5x20	1.90	GA
3	80	87-92	M6x20	2.5x20	1.90	GA
4	100	113-118	M6x20	2.5x20	1.90	GA
5	125	138-142	M6x20	2.5x20	1.90	GA
6	150	159-166	M6x20	2.5x20	1.90	GA
1/2	15	20-25	M6x20	2.0x20	1.30	G
3/4	20	26-30	M6x20	2.0x20	1.30	G
1	25	32-36	M6x20	2.0x20	1.30	G
5/4	32	38-45	M6x20	2.0x20	1.30	G
3/2	40	47-51	M6x20	2.0x20	1.30	G
2	50	60-64	M6x20	2.0x20	1.30	G
5/2	65	74-80	M6x20	2.5x20	1.90	G
3	80	87-92	M6x20	2.5x20	1.90	G
4	100	113-118	M6x20	2.5x20	1.90	G
5	125	138-142	M6x20	2.5x20	1.90	G
6	150	159-166	M6x20	2.5x20	1.90	G

## Split Pipe Clamp with Rubber with Long Nut M8/ M10

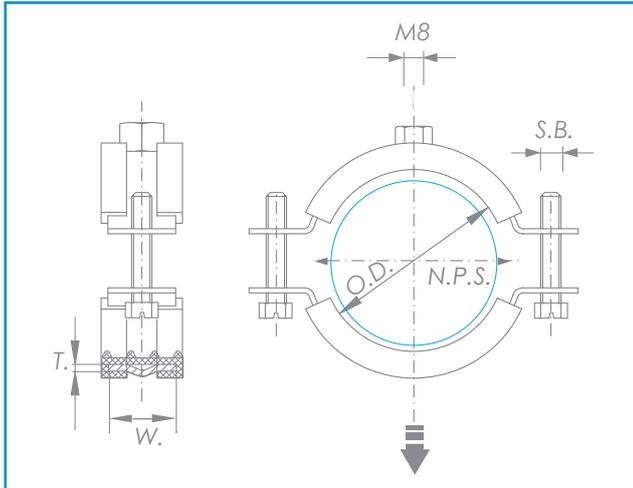
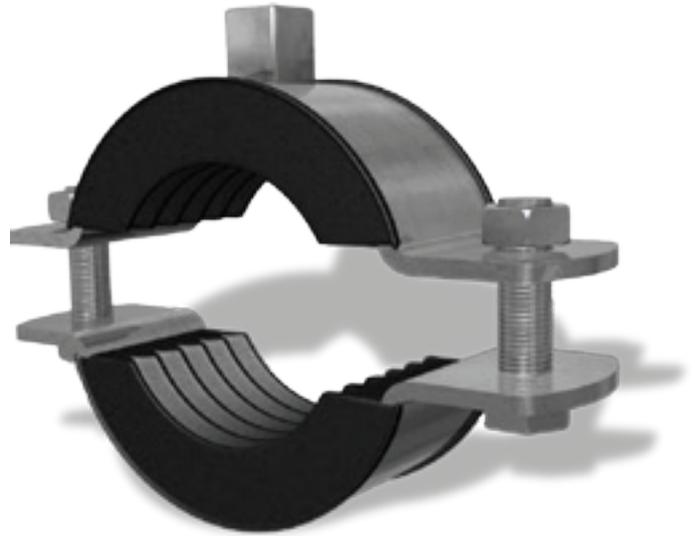
- **Material:** Steel S235
- **Service:** EPDM rubber insulation for sound reduction compliant with DIN 4109
- **Finish:** Electro Zinc Plated



Nominal Pipe Size		Outside Diameter	Side Bolt	Thickness & Width	Load Capacity	Material
In	mm	mm	mm	mm	KN	
1/2	15	20-25	M6x20	2.0x20	1.30	GA
3/4	20	26-30	M6x20	2.0x20	1.30	GA
1	25	32-36	M6x20	2.0x20	1.30	GA
5/4	32	38-45	M6x20	2.0x20	1.30	GA
3/2	40	47-51	M6x20	2.0x20	1.30	GA
2	50	60-64	M6x20	2.0x20	1.30	GA
5/2	65	74-80	M6x20	2.5x20	1.90	GA
3	80	87-92	M6x20	2.5x20	1.90	GA
4	100	113-118	M6x20	2.5x20	1.90	GA
5	125	138-142	M6x20	2.5x20	1.90	GA
6	150	159-166	M6x30	2.5x20	1.90	GA
1/2	15	20-25	M6x20	2.0x20	1.30	G
3/4	20	26-30	M6x20	2.0x20	1.30	G
1	25	32-36	M6x20	2.0x20	1.30	G
5/4	32	38-45	M6x20	2.0x20	1.30	G
3/2	40	47-51	M6x20	2.0x20	1.30	G
2	50	60-64	M6x20	2.0x20	1.30	G
5/2	65	74-80	M6x20	2.5x20	1.90	G
3	80	87-92	M6x20	2.5x20	1.90	G
4	100	113-118	M6x20	2.5x20	1.90	G
5	125	138-142	M6x20	2.5x20	1.90	G
6	150	159-166	M6x30	2.5x20	1.90	G

# Split Pipe Clamp with Rubber with Standard Nut M8

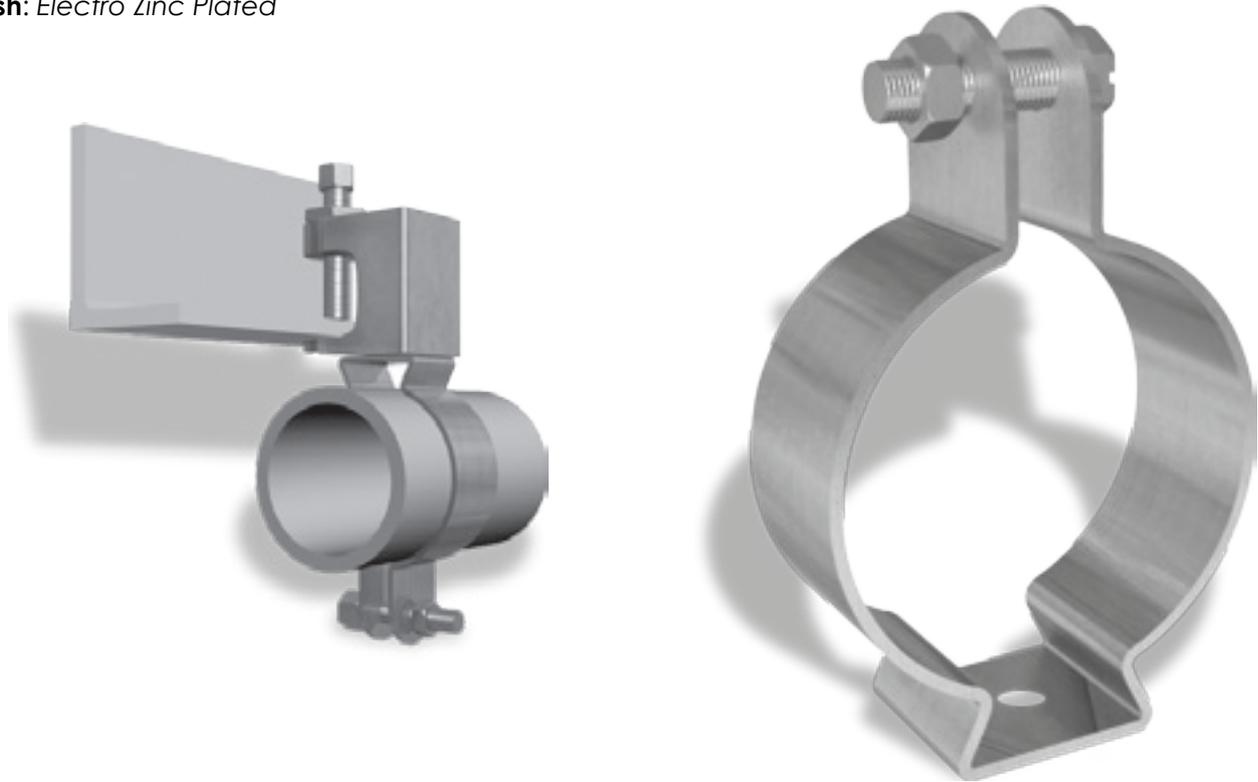
- **Material:** Steel S235
- **Service:** EPDM rubber insulation for sound reduction compliant with DIN 4109
- **Finish:** Electro Zinc Plated



Nominal Pipe Size		Outside Diameter mm	Side Bolt mm	Thickness & Width mm	Load Capacity KN	Material
In	mm					
1/2	15	20-25	M6x20	2.0x20	1.30	GA
3/4	20	26-30	M6x20	2.0x20	1.30	GA
1	25	32-36	M6x20	2.0x20	1.30	GA
5/4	32	38-45	M6x20	2.0x20	1.30	GA
3/2	40	47-51	M6x20	2.0x20	1.30	GA
2	50	60-64	M6x20	2.0x20	1.30	GA
5/2	65	74-80	M6x20	2.5x20	1.90	GA
3	80	87-92	M6x20	2.5x20	1.90	GA
4	100	113-118	M6x20	2.5x20	1.90	GA
5	125	138-142	M6x20	2.5x20	1.90	GA
6	150	159-166	M6x20	2.5x20	1.90	GA
1/2	15	20-25	M6x20	2.0x20	1.30	G
3/4	20	26-30	M6x20	2.0x20	1.30	G
1	25	32-36	M6x20	2.0x20	1.30	G
5/4	32	38-45	M6x20	2.0x20	1.30	G
3/2	40	47-51	M6x20	2.0x20	1.30	G
2	50	60-64	M6x20	2.0x20	1.30	G
5/2	65	74-80	M6x20	2.5x20	1.90	G
3	80	87-92	M6x20	2.5x20	1.90	G
4	100	113-118	M6x20	2.5x20	1.90	G
5	125	138-142	M6x20	2.5x20	1.90	G
6	150	159-166	M6x20	2.5x20	1.90	G

## Omega Conduit & Pipe Clamp

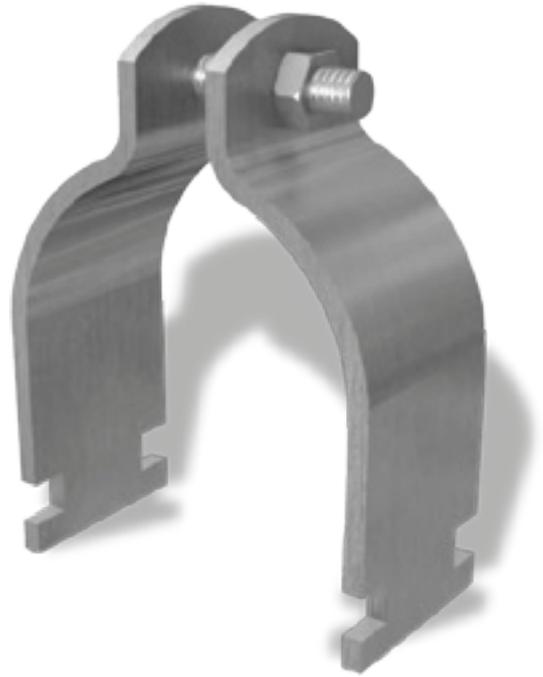
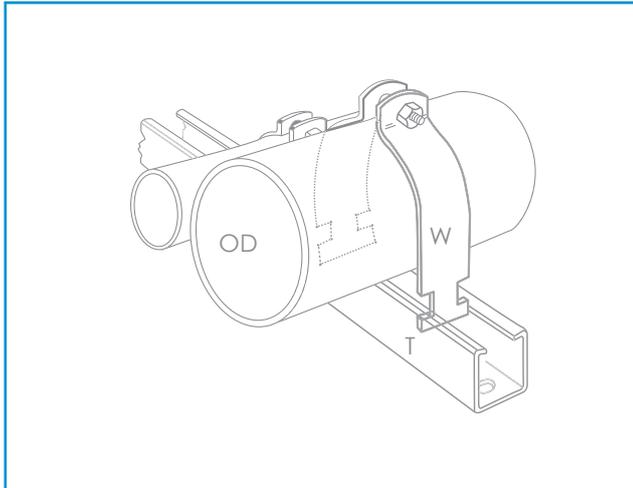
- **Material:** Steel S235
- **Service:** Designed for hanging conduit (rigid or EMT) to beam clamps, available with or without closure bolt
- **Finish:** Electro Zinc Plated



Nominal Pipe Size		Outside Diameter	Side Bolt	Thickness & Width	Load Capacity	Material
In	mm	mm	mm	mm	KN	
1/2	15	20-25	M6x20	2.0x20	1.30	GA
3/4	20	26-30	M6x20	2.0x20	1.30	GA
1	25	32-36	M6x20	2.0x20	1.30	GA
5/4	32	38-45	M6x20	2.0x20	1.30	GA
3/2	40	47-51	M6x20	2.0x20	1.30	GA
2	50	60-64	M6x20	2.0x20	1.30	GA
5/2	65	74-80	M6x20	2.5x20	1.90	GA
3	80	87-92	M6x20	2.5x20	1.90	GA
4	100	113-118	M6x20	2.5x20	1.90	GA
5	125	138-142	M6x20	2.5x20	1.90	GA
6	150	159-166	M6x20	2.5x20	1.90	GA
1/2	15	20-25	M6x20	2.0x20	1.30	G
3/4	20	26-30	M6x20	2.0x20	1.30	G
1	25	32-36	M6x20	2.0x20	1.30	G
5/4	32	38-45	M6x20	2.0x20	1.30	G
3/2	40	47-51	M6x20	2.0x20	1.30	G
2	50	60-64	M6x20	2.0x20	1.30	G
5/2	65	74-80	M6x20	2.5x20	1.90	G
3	80	87-92	M6x20	2.5x20	1.90	G
4	100	113-118	M6x20	2.5x20	1.90	G
5	125	138-142	M6x20	2.5x20	1.90	G
6	150	159-166	M6x20	2.5x20	1.90	G

## Channel Clamp

- **Material:** Steel S235
- **Service:** For mounting (rigid or EMT) and steel pipes on C-Channels
- **Finish:** Electro Zinc Plated or Hot-dip Galvanized



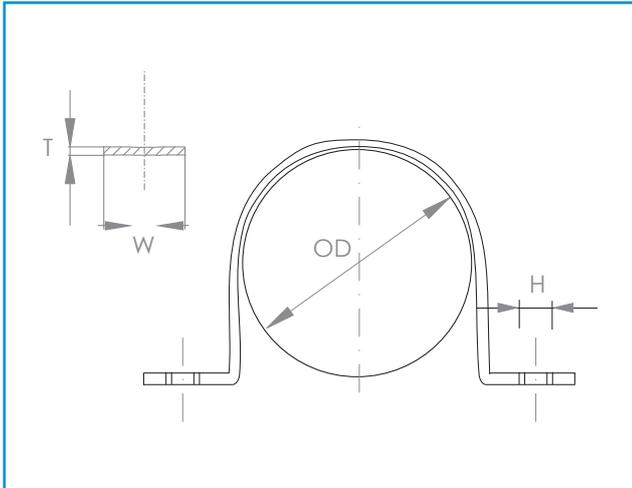
Pipe Straps for thin metallic wall conduits (EMT) (Electrical Metallic Tubing)

Nominal Pipe Size		Outside Diameter		Thickness & Width	Load Capacity	Material
In	mm	mm	mm			
1/2	15	20	25	1.5x28	1.30	GA
3/4	20	26	30	1.5x28	1.30	GA
1	25	32	40	2.0x28	1.30	GA
5/4	32	42	45	2.0x28	1.30	GA
3/2	40	46	50	2.5x28	1.30	GA
2	50	60	64	2.5x28	1.30	GA
5/2	65	74	80	2.5x28	1.90	GA
3	80	86	92	2.8x28	1.90	GA
4	100	112	118	3.0x28	1.90	GA
5	125	138	142	3.0x28	1.90	GA
6	150	160	165	3.0x28	1.90	GA
1/2	15	20	25	1.5x28	1.30	G
3/4	20	26	30	1.5x28	1.30	G
1	25	32	40	2.0x28	1.30	G
5/4	32	42	45	2.0x28	1.30	G
3/2	40	46	50	2.5x28	1.30	G
2	50	60	64	2.5x28	1.30	G
5/2	65	74	80	2.5x28	1.90	G
3	80	86	92	2.8x28	1.90	G
4	100	112	118	3.0x28	1.90	G
5	125	138	142	3.0x28	1.90	G
6	150	160	165	3.0x28	1.90	G

## Pipe Strap

Two-Hole Pipe Strap/ U-Clip

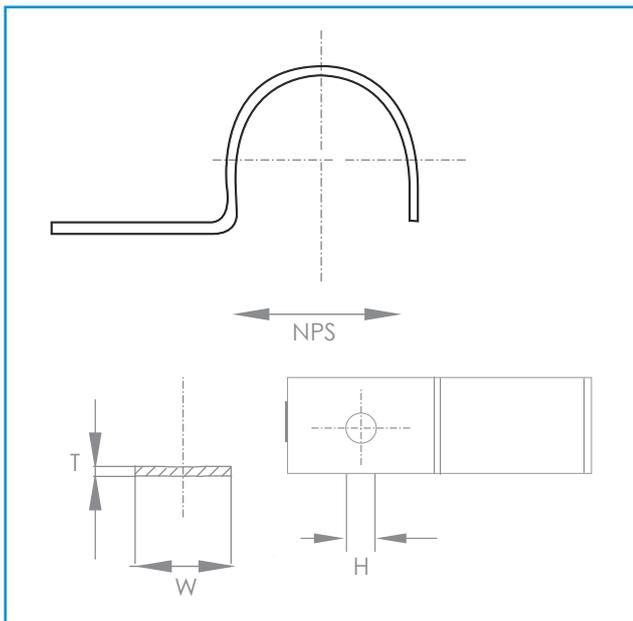
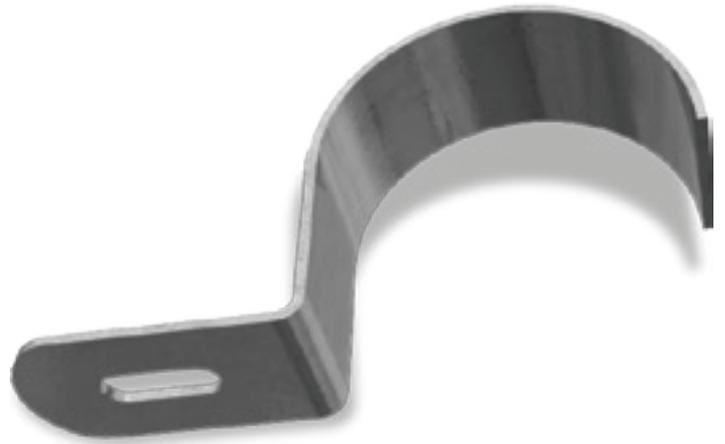
- **Material:** Steel S235
- **Service:** Designed for supporting pipe runs on walls and on C-Channels
- **Finish:** Electro Zinc Plated



Nominal Pipe Size		Outside Diameter	Thickness & Width	Hole Size	Load Capacity	Material
In	mm					
1/2	15	22	1.5x25	6	1.30	GA
3/4	20	28	1.5x25	6	1.30	GA
1	25	35	1.5x25	6	1.30	GA
5/4	32	42	1.5x25	6	1.30	GA
3/2	40	54	1.5x25	6	1.30	GA
2	50	60	2.0x30	8	1.90	GA
5/2	65	75	2.0x30	8	1.90	GA
3	80	90	2.0x40	8	1.90	GA
1/2	15	22	1.5x25	6	1.30	G
3/4	20	28	1.5x25	6	1.30	G
1	25	35	1.5x25	6	1.30	G
5/4	32	42	1.5x25	6	1.30	G
3/2	40	54	1.5x25	6	1.30	G
2	50	60	2.0x30	8	1.90	G
5/2	65	75	2.0x30	8	1.90	G
3	80	90	2.0x40	8	1.90	G

## One-Hole Pipe Strap <Snap Type>

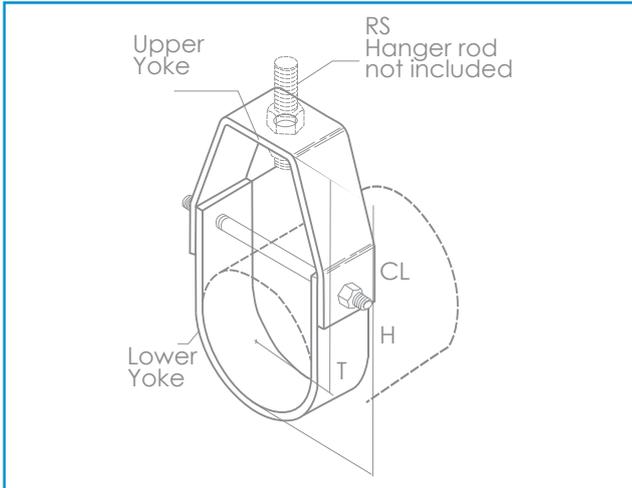
- **Material:** Steel S235
- **Service:** Designed for supporting standard conduits, cable and steel pipes on walls or sides of beams or on C-Channels
- **Finish:** Electro Zinc Plated  
Not recommended for use horizontally on ceilings, bottoms of beams and similar installations since the factor of safety is greatly reduced when so used



Nominal Pipe Size		Thickness & Width	Hole Size	Load Capacity	Material
In	mm				
1/2	15	1.0x25	6	0.40	GA
3/4	20	1.0x25	6	0.40	GA
1	25	1.0x25	6	0.40	GA
5/4	32	1.5x25	6	0.40	GA
3/2	40	1.5x25	6	0.40	GA
2	50	1.5x25	8	0.40	GA
5/2	65	2.0x25	8	0.45	GA
3	80	2.5x25	8	0.45	GA
1/2	15	1.0x25	6	0.40	G
3/4	20	1.0x25	6	0.40	G
1	25	1.0x25	6	0.40	G
5/4	32	1.5x25	6	0.40	G
3/2	40	1.5x25	6	0.40	G
2	50	1.5x25	8	0.40	G
5/2	65	2.0x25	8	0.45	G
3	80	2.5x25	8	0.45	G

## Clevis Hanger

- **Material:** Steel S235
- **Finish:** Electro Zinc Plated or Hot-dip Galvanized
- **Application:** Designed for suspending pipes

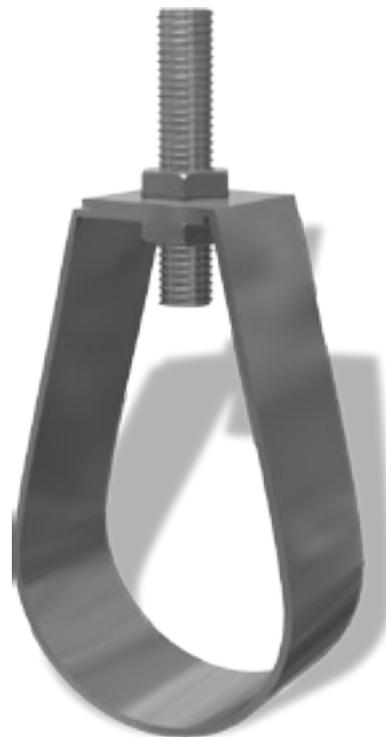
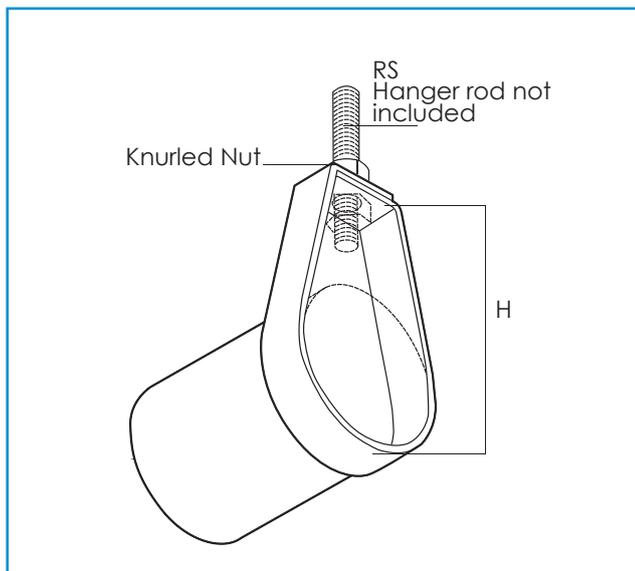


Nominal Pipe Size		Rod Size	Center Line	Height	Transverse	Thickness & Width	Load Capacity	Material
In	mm	mm	mm	mm	mm	mm	KN	
1/2	15	M10	44	55	6	3x25	2.70	GA
3/4	20	M10	54	68	6	3x25	2.70	GA
1	25	M10	58	75	6	3x25	2.70	GA
5/4	32	M10	80	100	6	3x25	2.70	GA
3/2	40	M10	81	106	6	3x25	2.70	GA
2	50	M10	86	117	6	3x25	2.70	GA
5/2	65	M12	106	144	8	3x30	5.00	GA
3	80	M12	127	172	8	3x30	5.00	GA
4	100	M16	141	199	10	4x30	6.30	GA
5	125	M16	159	229	10	4x30	6.30	GA
6	150	M20	174	257	12	4x40	8.50	GA
1/2	15	M10	44	55	6	3x25	2.70	G
3/4	20	M10	54	68	6	3x25	2.70	G
1	25	M10	58	75	6	3x25	2.70	G
5/4	32	M10	80	100	6	3x25	2.70	G
3/2	40	M10	81	106	6	3x25	2.70	G
2	50	M10	86	117	6	3x25	2.70	G
5/2	65	M12	106	144	8	3x30	5.00	G
3	80	M12	127	172	8	3x30	5.00	G
4	100	M16	141	199	10	4x30	6.30	G
5	125	M16	159	229	10	4x30	6.30	G
6	150	M20	174	257	12	4x40	8.50	G

## Adjustable Band Hanger

- **Material:** Steel S235
- **Finish:** Electro Zinc Plated or Hot-dip Galvanized
- **Application:** Designed for suspending non-insulated stationary pipe line. Knurled nut can be supplied in 8 to 10 mm diameter

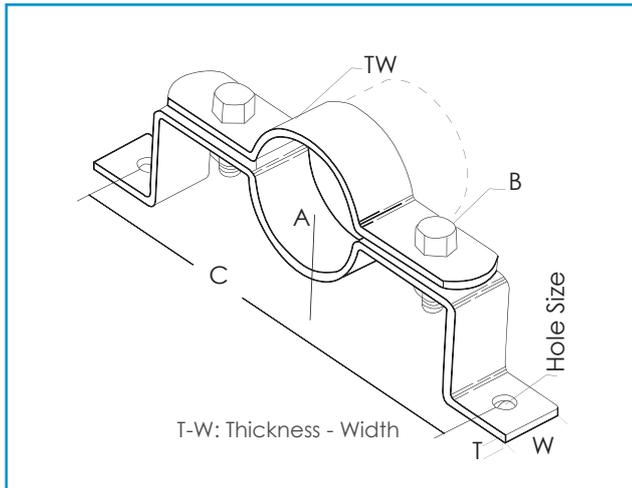
Swivel Hangers with rubber gaskets can be supplied also.



Nominal Pipe Size		Rod Size	Height	Thickness & Width	Load Capacity	Material
In	mm	mm	mm	mm	KN	
1/2	15	M8	54	1.0x25	0.30	GA
3/4	20	M8	64	1.0x25	0.30	GA
1	25	M8	72	1.2x25	0.30	GA
5/4	32	M8	83	1.2x25	0.30	GA
3/2	40	M8	96	1.2x25	0.30	GA
2	50	M8	113	1.2x25	0.30	GA
5/2	65	M10	130	1.2x25	0.60	GA
3	80	M10	156	1.2x25	0.60	GA
4	100	M10	215	1.2x25	0.60	GA
5	125	M10	242	2.0x25	1.10	GA
6	150	M10	279	2.0x25	1.10	GA
1/2	15	M8	54	1.0x25	0.30	G
3/4	20	M8	64	1.0x25	0.30	G
1	25	M8	72	1.2x25	0.30	G
5/4	32	M8	83	1.2x25	0.30	G
3/2	40	M8	96	1.2x25	0.30	G
2	50	M8	113	1.2x25	0.30	G
5/2	65	M10	130	1.2x25	0.60	G
3	80	M10	156	1.2x25	0.60	G
4	100	M10	215	1.2x25	0.60	G
5	125	M10	242	2.0x25	1.10	G
6	150	M10	279	2.0x25	1.10	G

## Offset Pipe Clamp

- **Material:** Steel S235
- **Service:** Designed for supporting and stabilizing vertical pipe runs
- **Finish:** Electro Zinc Plated or Hot-dip Galvanized

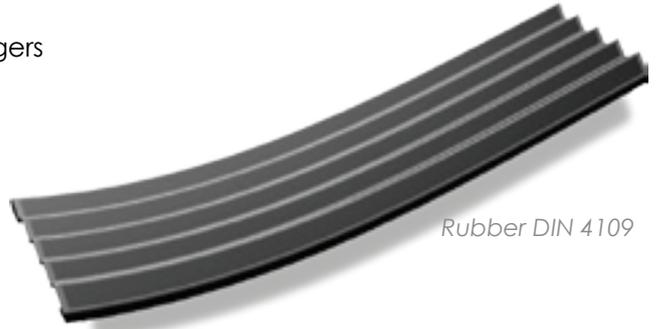


Nominal Pipe Size		A	B	C	Hole Size	Thickness & Width	Load Capacity	Material
In	mm	mm	mm	mm	mm	mm	KN	
1/2	15	60	8x40	150	10	3x30	0.90	GA
3/4	20	60	8x40	175	10	3x30	0.90	GA
1	25	65	8x40	190	10	3x30	0.90	GA
5/4	32	75	8x40	200	10	3x30	0.90	GA
2	50	80	10x50	225	12	4.5x30	1.20	GA
5/2	65	85	10x50	250	12	4.5x30	1.20	GA
3	80	95	10x50	275	12	4.5x30	1.20	GA
4	100	105	12x50	300	14	5x40	1.80	GA
6	150	130	12x50	400	14	5x40	1.80	GA
8	200	160	12x50	450	14	5x40	1.80	GA
1/2	15	60	8x40	150	10	3x30	0.90	G
3/4	20	60	8x40	175	10	3x30	0.90	G
1	25	65	8x40	190	10	3x30	0.90	G
5/4	32	75	8x40	200	10	3x30	0.90	G
2	50	80	10x50	225	12	4.5x30	1.20	G
5/2	65	85	10x50	250	12	4.5x30	1.20	G
3	80	95	10x50	275	12	4.5x30	1.20	G
4	100	105	12x50	300	14	5x40	1.80	G
6	150	130	12x50	400	14	5x40	1.80	G
8	200	160	12x50	450	14	5x40	1.80	G

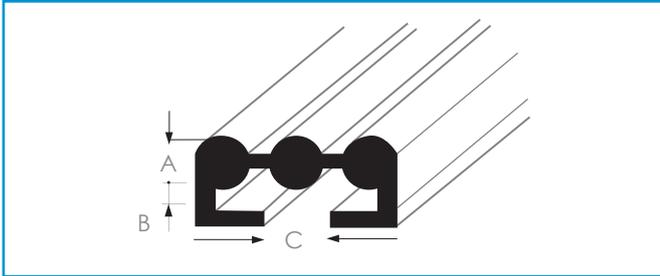
## Noise Suppression Profile

SR noise-suppression strip for insertion in clamps and hangers

- **Material:** EPDM. Rubber
- **Load Data:** At normal frequency and pressure range, noise suppression 20 dB(A) & the temperature-resistant from -40 °C to + 100 °C
- **Electrical values:** Specific resistance:  $2 \times 10^9$  M ohm  $\text{cm}^2$  & the Surface resistance:  $2 \times 10^9$  M ohm



Rubber DIN 4109



Codes	Dimension			Material	
	Size	A	B		C
	mm	mm	mm	mm	
20x6	6	3	20	GA	
20x6	6	3	20	G	



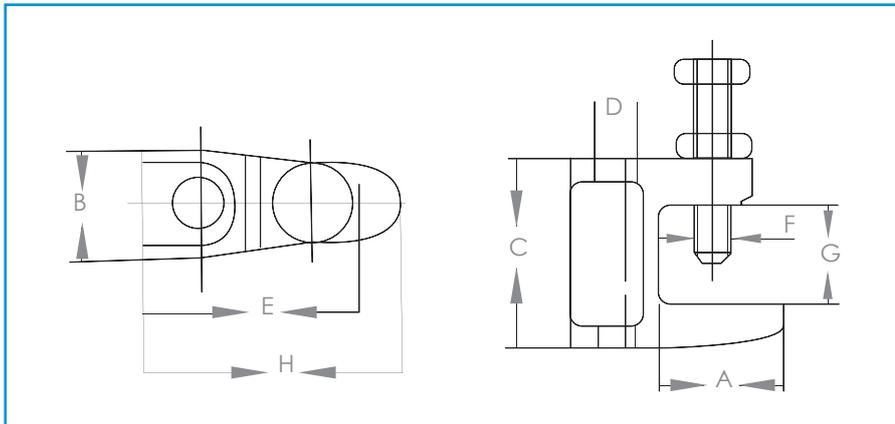
# Beam Clamps

Beam Clamps offered in this section are designed to provide attachment of hanger rods to structures without drilling or welding. A wide range of types and sizes are available for various applications.

## C-Clamp

- **Material:** Malleable Cast Iron Zinc plated

Casting tolerance according to DIN 1684 GTA/17 with hexagon head screw DIN 933 8.8, threaded end with cup point according to EN ISO 4753 and locknut DIN 439 for sprinkler systems, heating, ventilation and air conditioning, acoustic tubes and sanitary installation machines and steel constructions.  
Safety Factor

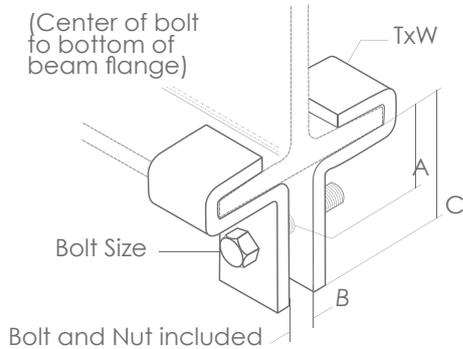


The Load Data the Load data includes a safety factor of 4, (safety factor = ratio of ultimate load divided to the design Load : Safety factor 4:1

A	B	C	D	E	F	G	H	Load Capacity	Material
mm	mm	mm	mm	mm	mm	mm	mm	KN	
20	19	35	M6 Ø7	35	M8	17	36	1.1	GA
21	19	35	M8 Ø9	35	M8	18	38	1.2	GA
29	21	45	M8 Ø9	41	M10	23	50	2.5	GA
23	21	42	M10 Ø11	41	M10	20	44	2.5	GA
35	23.5	54	M12 Ø13	48	M10	26	58	3.5	GA
30	29.5	58	M16 Ø17	55.5	M12	28	58.3	5.5	GA
20	19	35	M6 Ø7	35	M8	17	36	1.1	G
21	19	35	M8 Ø9	35	M8	18	38	1.2	G
29	21	45	M8 Ø9	41	M10	23	50	2.5	G
23	21	42	M10 Ø11	41	M10	20	44	2.5	G
35	23.5	54	M12 Ø13	48	M10	26	58	3.5	G
30	29.5	58	M16 Ø17	55.5	M12	28	58.3	5.5	G

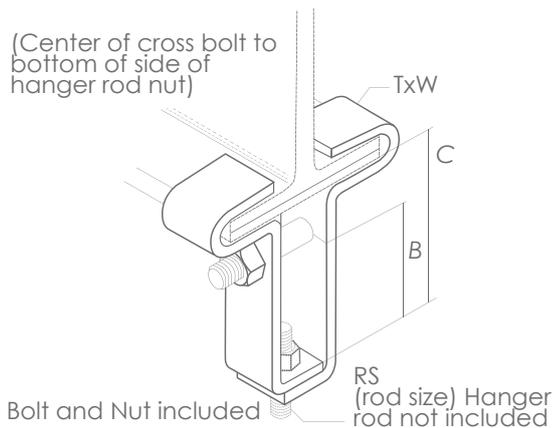
## Steel Beam Clamp Open

- **Material:** Steel S235
- **Service:** Designed for attaching hanger rods to the top or bottom flange of a beam
- **Finish:** Hot-dip Galvanized
- **Ordering:** Specify flange width and thickness
- **Steel Size:** 5X30 mm



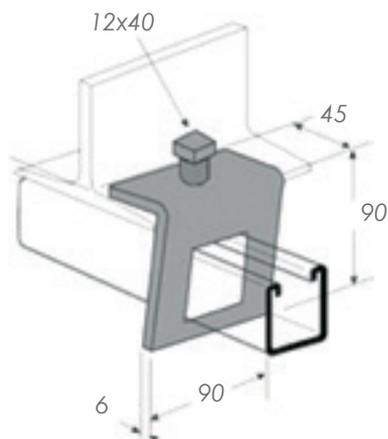
## Steel Beam Clamp Closed

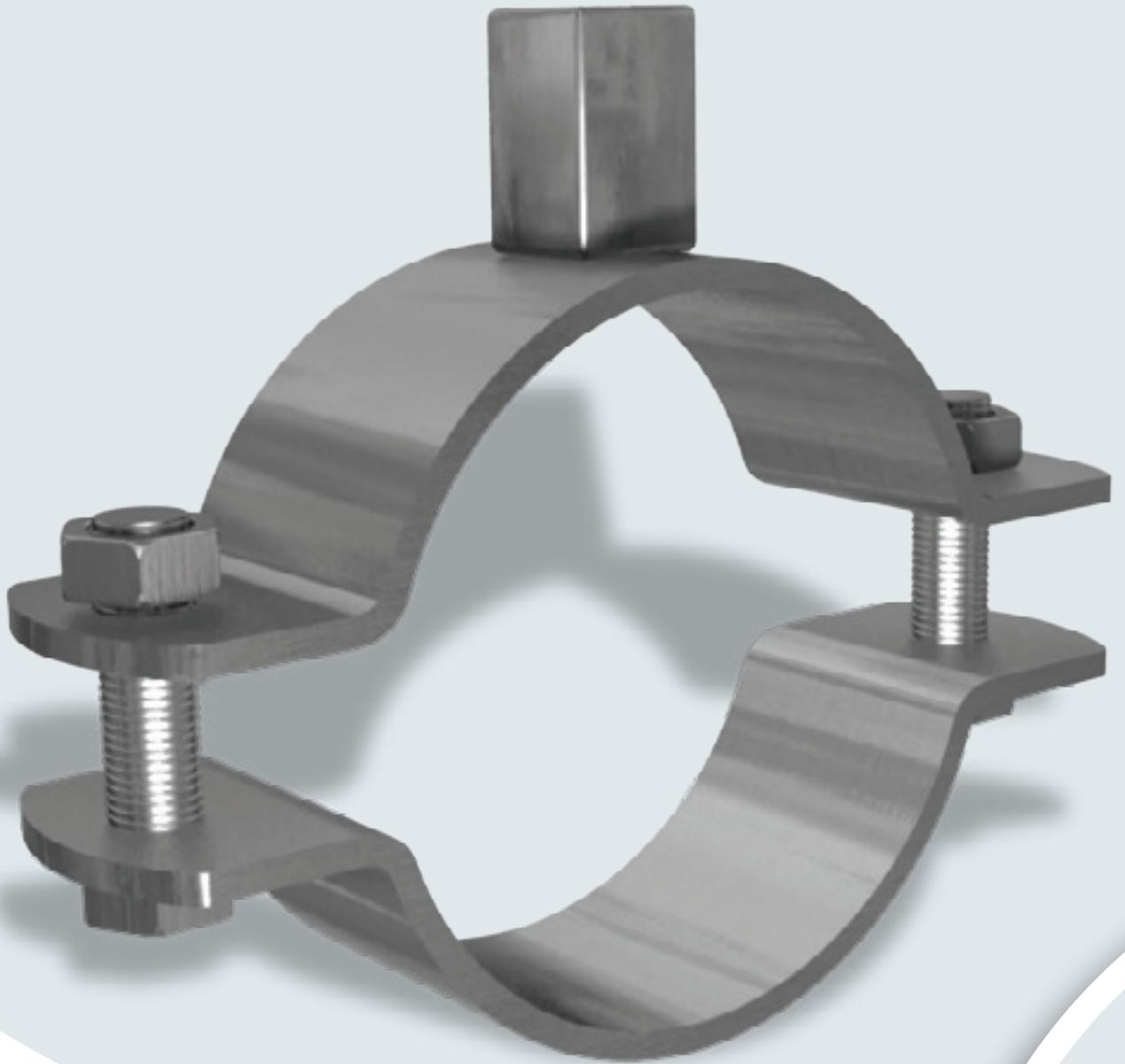
- **Material:** Steel S235
- **Service:** Designed for attaching hanger rods to the top or bottom flange of a beam
- **Finish:** Hot-dip Galvanized
- **Ordering:** Specify flange width and thickness
- **Steel Size:** 5X30 mm, 5X40 mm



## Window Beam Clamp

- **Material:** Steel S235
- **Service:** Designed for attaching C-Channel to a top or bottom flange of a beam
- **Finish:** Electro Zinc Plated
- **Steel Size:** 6x90 mm





# CABLE TRAY SUPPORT SYSTEM



# GENERAL INFORMATION

## CHANNEL

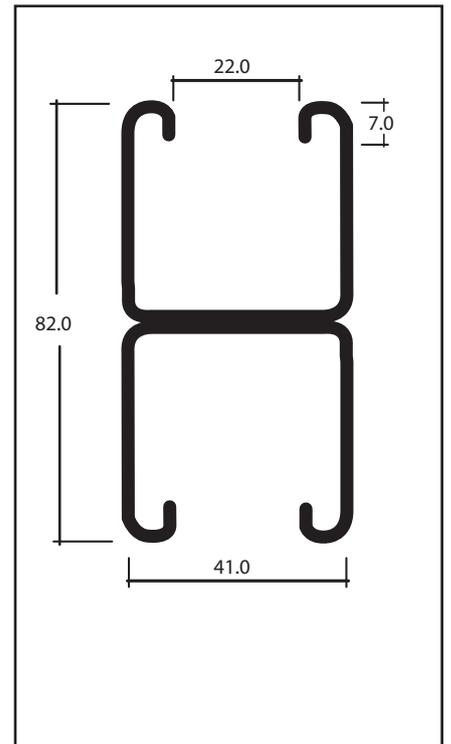
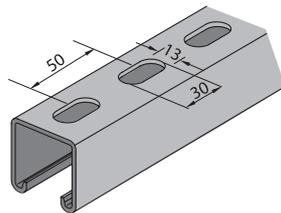
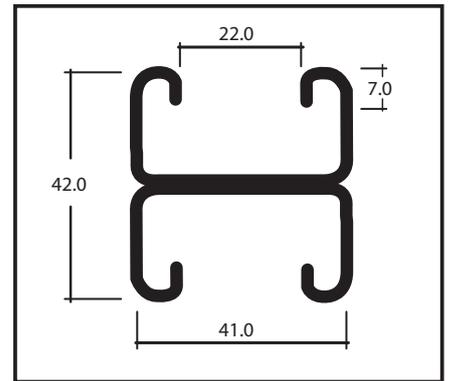
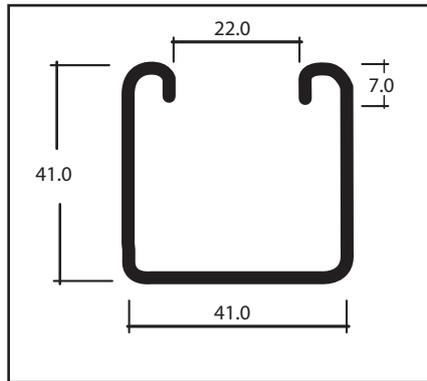
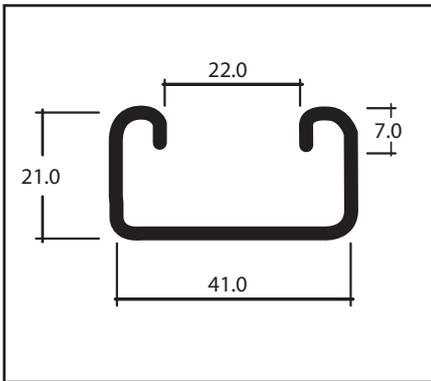
SFSP's metal framing channel is cold formed on modern rolling machines from low carbon steel manufactured according to BS 6946:1988. A continuous slot provides the ability to make attachments at any point.

## LENGTHS

Standard length: 3000mm with  $\pm 3.2$ mm length tolerance.  
 Custom lengths are available upon request.

## FINISHES

Standard Finishes: Pre-Galvanized finish (ASTM A653M coating G90 and G60). Hot Dip Galvanized after fabrication (ASTM A123 or BSEN ISO1461:2009) . Other custom coatings are available upon request.



## Metal Framing Channels

### SELECTION CHART

Part No	Channel Dimensions		Thickness
	Height "H"	Width "W"	
CCH - 220/221	21.0 mm	41.0 mm	1.5 mm
CCH - 240/241	41.0 mm	41.0 mm	1.5 mm
CCH - 320/321	21.0 mm	41.0 mm	2.0 mm
CCH - 340/341	41.0 mm	41.0 mm	2.0 mm
CCH - 420/421	21.0 mm	41.0 mm	2.5 mm
CCH - 440/441	41.0 mm	41.0 mm	2.5 mm

For Toothed Channel add "T" after the Part no. ex.: CCH-220T

**CCH 320** **3** **2** **0** **T**

- Material Thickness**  
 for 1.5 mm 2  
 for 2.0 mm 3  
 for 2.5 mm 4
- Size**  
 mm 21/41 - 2  
 mm 41/41 - 4
- Channel Patterns**  
 PT - 0  
 ST - 1  
 B2B - 2
- Toothed channel**

## Channel Hole Patterns

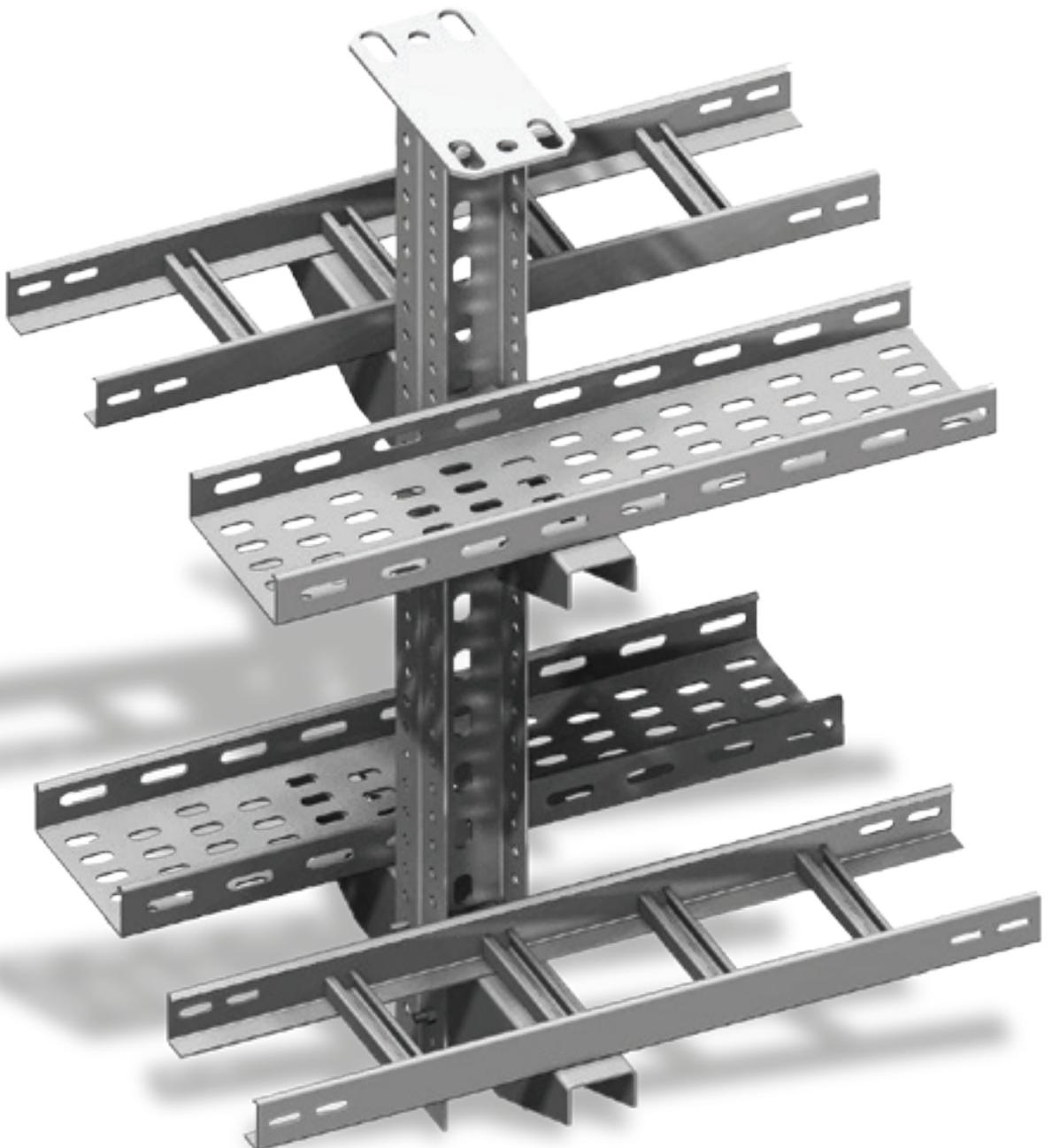
PT PLAIN  
TYPE



ST SLOTTED TYPE



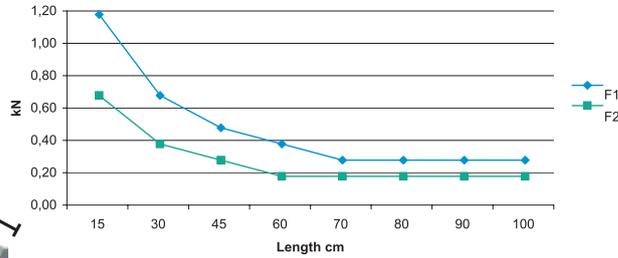
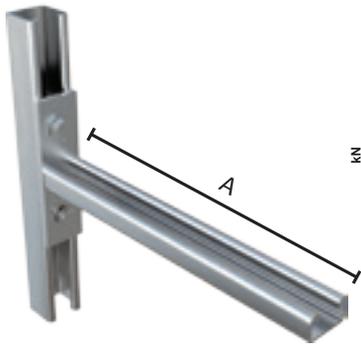
B2B TYPE



# CANTILEVER ARM BRACKET

## Cantilever Arm Brackets - SCA

### CCH421 41x21x2.5

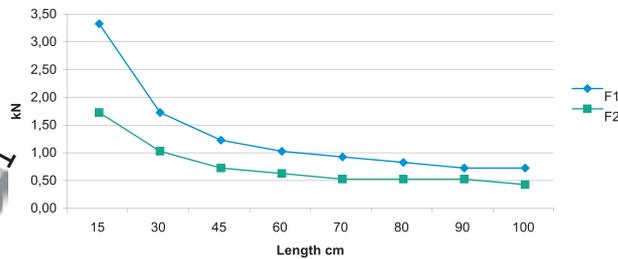
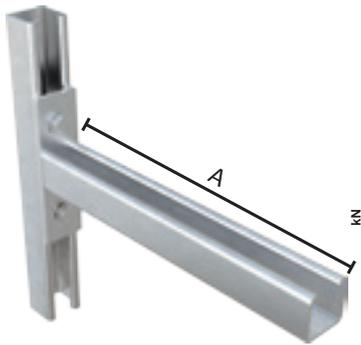


Length A (mm)	Allowable Load		
	F <sub>1</sub> <sup>*</sup>	F <sub>2</sub> <sup>*</sup>	F <sub>z</sub> <sup>**</sup>
150	1.10	0.60	3.10
300	0.60	0.30	3.10
450	0.40	0.20	3.10
600	0.30	0.10	3.10
700	0.20	0.10	3.10
800	0.20	0.10	3.10
900	0.20	0.10	3.10
1000	0.20	0.10	3.10

**Base plate** : height (h) x width (b) x thickness (t)  
100 50 8

- In the case of concrete support frame, use anchor M10
- In the case of concrete C-Channel frame, Hex bolt M8 .

\*\* *Connection force (pull-out force) : 3.10 (kN)*



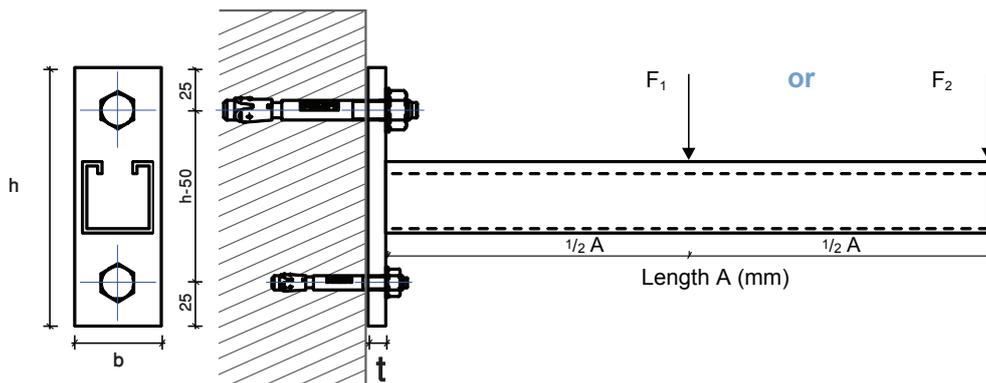
Length A (mm)	Allowable Load		
	F <sub>1</sub> <sup>*</sup>	F <sub>2</sub> <sup>*</sup>	F <sub>z</sub> <sup>**</sup>
150	3.10	1.50	7.50
300	1.50	0.80	7.50
450	1.00	0.50	7.50
600	0.80	0.40	7.50
700	0.70	0.30	7.50
800	0.60	0.30	7.50
900	0.50	0.30	7.50
1000	0.50	0.20	7.50

**Base plate** : height (h) x width (b) x thickness (t)  
140 50 10

- In the case of concrete support frame, use anchor M16 .
- In the case of concrete C-Channel frame, Hex bolt M8.

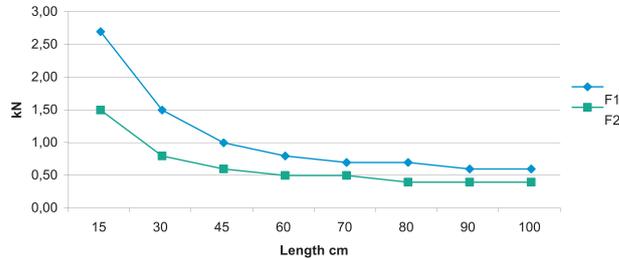
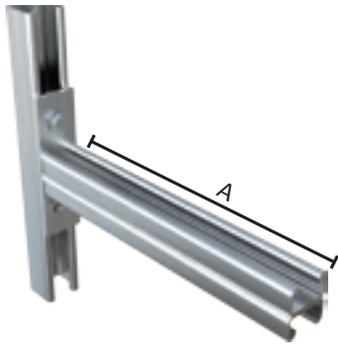
\*\* *Connection force (pull-out force) : 7.50 (kN)*

\* Given Loads are always in [kN] " Allowable characteristic live load "



## Cantilever Arm Brackets - SCA

### CCH422 41x21x2.5 B2B



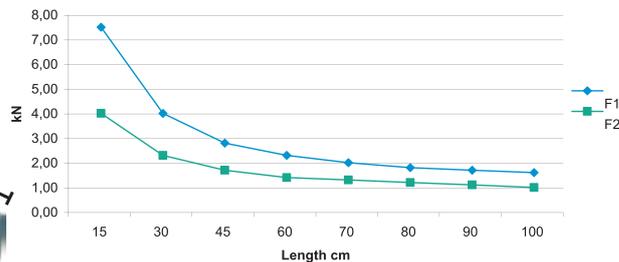
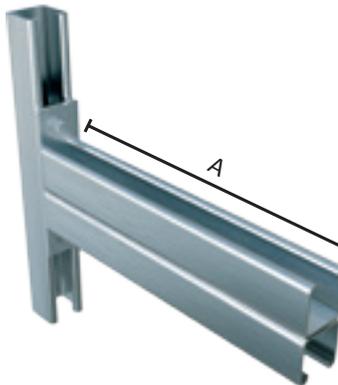
Length A (mm)	Allowable Load		
	F <sub>1</sub> *	F <sub>2</sub> *	F <sub>z</sub> **
150	2.50	1.30	4.80
300	1.30	0.60	4.80
450	0.80	0.40	4.80
600	0.60	0.30	4.80
700	0.50	0.30	4.80
800	0.50	0.20	4.80
900	0.40	0.20	4.80
1000	0.40	0.20	4.80

**Base plate** : height (h) x width (b) x thickness (t)  
140 50 10

- In the case of concrete support frame, use anchor M12.
- In the case of concrete C-Channel frame, Hexbolt M8.

\*\* Connection force (pull-out force) : 4,8 (kN)

### CCH442 41x41x2.5 B2B



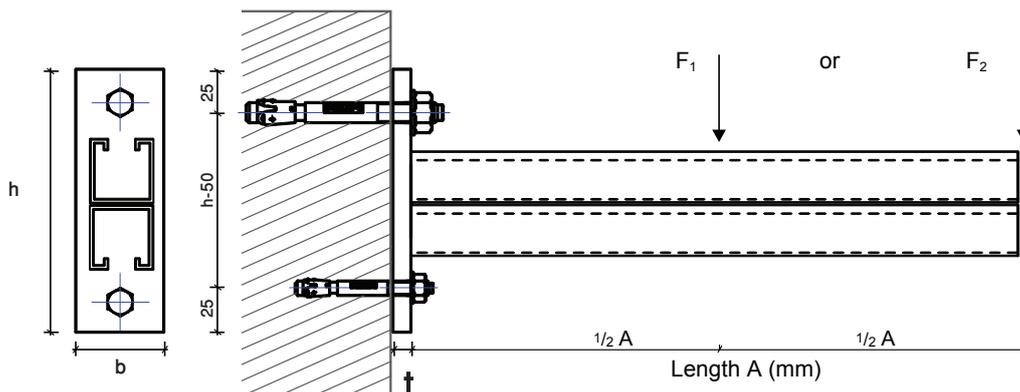
Length A (mm)	Allowable Load		
	F <sub>1</sub> *	F <sub>2</sub> *	F <sub>z</sub> **
150	7.00	3.50	8.30
300	3.50	1.80	8.30
450	2.30	1.20	8.30
600	1.80	0.90	8.30
700	1.50	0.80	8.30
800	1.30	0.70	8.30
900	1.20	0.60	8.30
1000	1.10	0.50	8.30

**Base plate** : height (h) x width (b) x thickness (t)  
180 60 12

- In the case of concrete support frame, use anchor M16.
- In the case of concrete C-Channel frame, Hex bolt M10 .

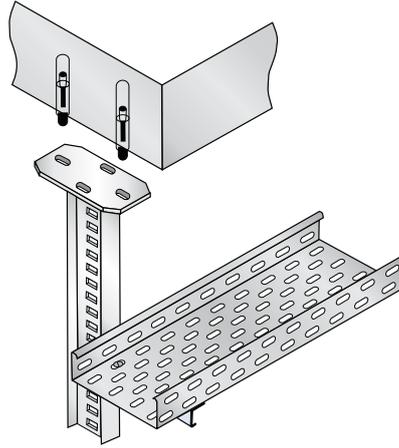
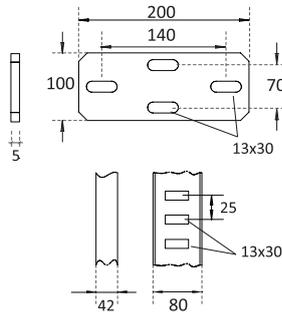
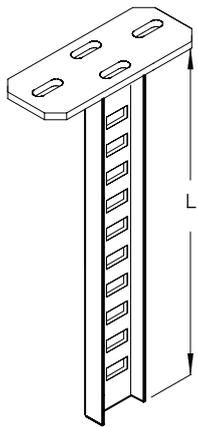
\*\* Connection force (pull-out force) : 8,30 (kN)

\* Given Loads are always in [kN] " Allowable characteristic live load "



## U - Support / 3000

3000



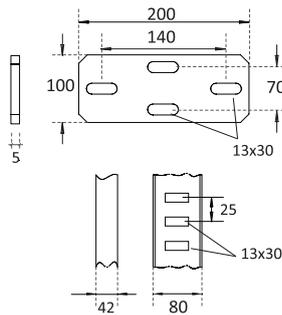
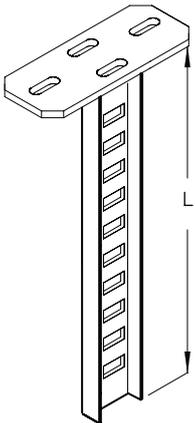
Order Example		
Item	(h)	(t)
3000	0200	5

**Order Example:**  
3000 - Length (L) - Thickness (t)  
For more ordering details, please check pages 84-85

U-Support with welded-on head plate 200 x 100 x 5mm

## I - Support / 3050

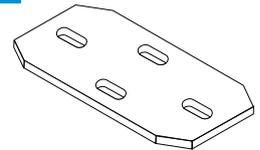
3050



**Order Example:**  
3050 - Length (L) - Thickness (t)  
For more ordering details, please check pages 84-85

## Head Plate / 3100

3100

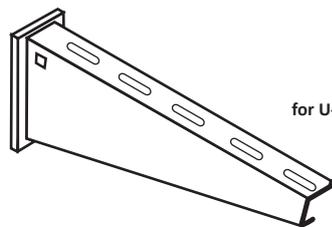


200 x 100 x 5mm

U-Support with welded-on head plate 200 x 100 x 5mm

## Wall Bracket | 3200 - 3250

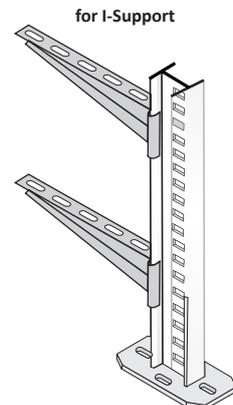
3200



for U-Support

5 mm thickness

3250



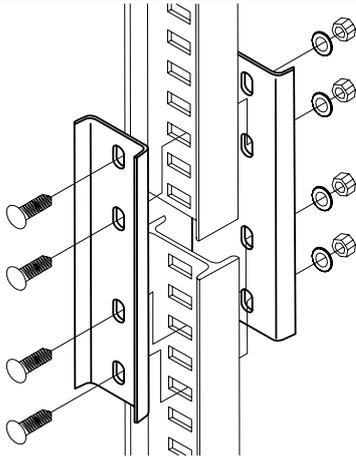
for I-Support

Order Example		
Item	(L)	(t)
3200	0210	5

**Order Example:**  
3200 - Length (L) - Thickness (t)  
For more ordering details, please check pages 84-85

## Support connectors | 3300

3300



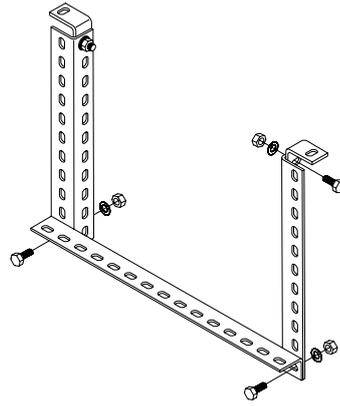
### Order Example

Item	(L)	(t)
3300	0200	5

**Order Example:**  
3300 - Length (L) -  
Thickness (t)  
For more ordering details,  
please check pages 84-85

## Clamping plates | 3350

3350



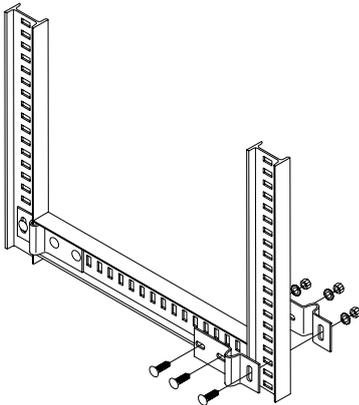
### Order Example

Item	(L)	(t)
3350	0200	5

**Order Example:**  
3350 - Length (L) -  
Thickness (t)  
For more ordering details,  
please check pages 84-85

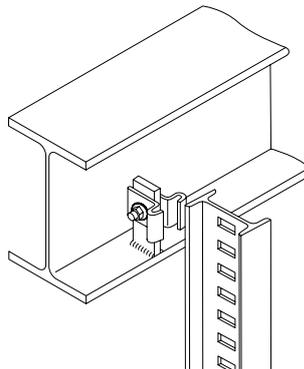
## Support plates | 3400

3400



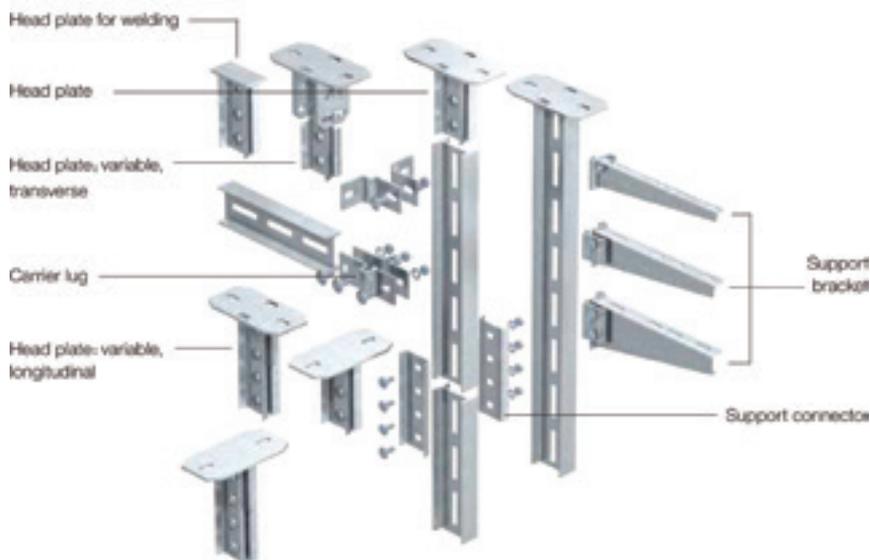
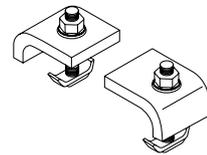
## Support clamps | 3450

3450



## Clamping angles | 3550

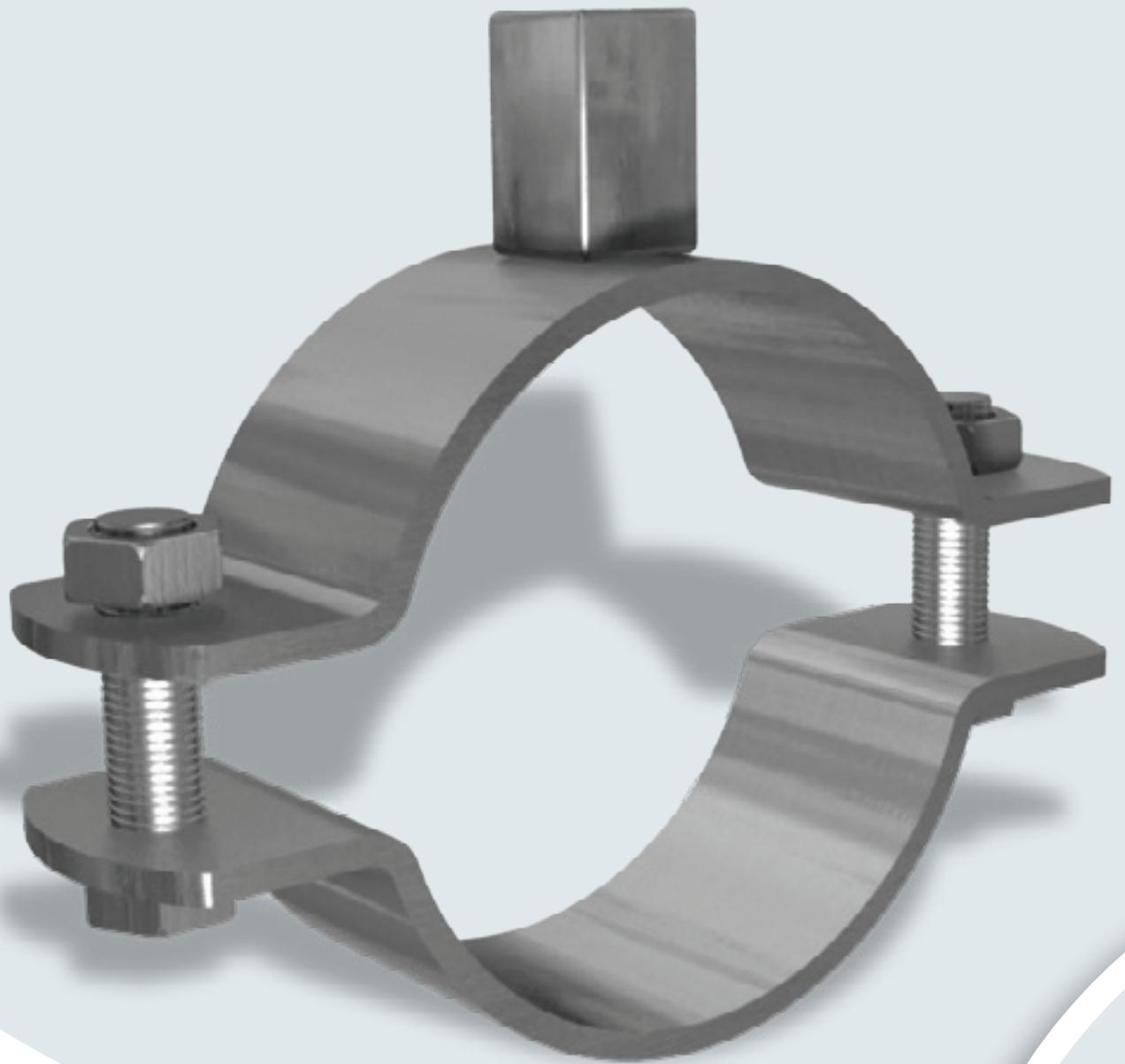
3550



## Angles | 3600

3600

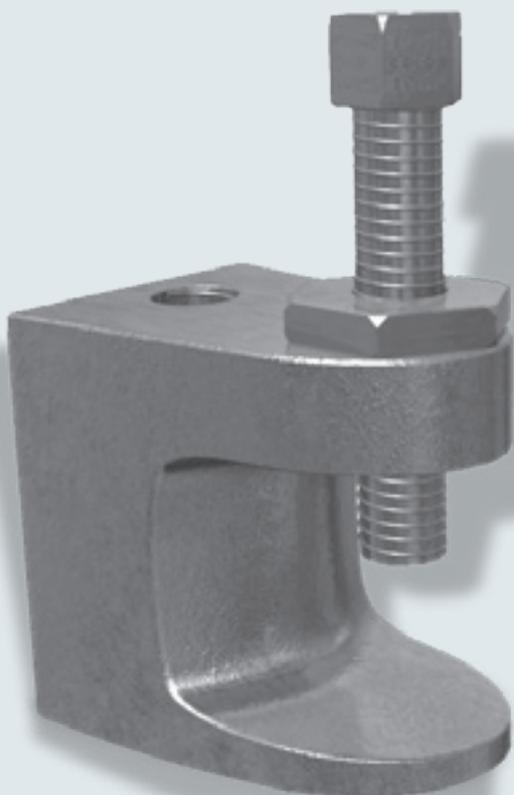




Accessories offered in this section are designed to reduce installation time.

- **Material:** For maximum loading design, carbon steel is used in the manufacturing of threaded accessories. Stainless steel and other material are available.
- **Finish:** Standard finishes are plain steel and Electro Plated zinc (ASTM B633 SCl) (BS 1706)
- **Load Data:** The load data published includes a safety of 5.0 unless noted (safety factor = ratio of ultimate load to the design load) .

# THREADED ACCESSORIES

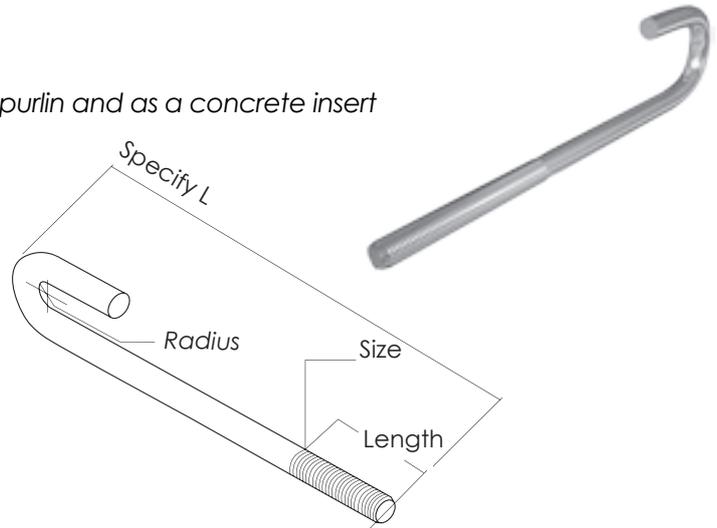


## Anchor Bolts

### J - Bolt

- **Material:** Steel S235
- **Service:** Designed for attaching to beam flange or purlin and as a concrete insert
- **Finish:** Electro Zinc Plated

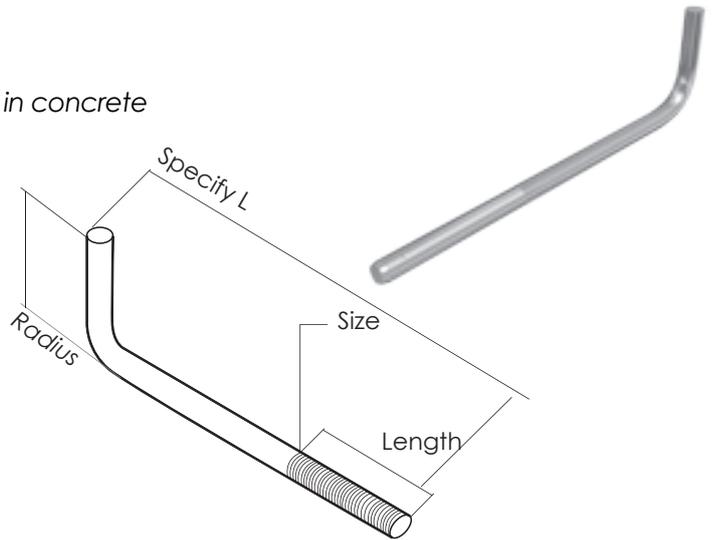
Thread			
Size	Length	Radius	Load Capacity
mm	mm	mm	KN
10	50	13.0	1.00
12	50	16.0	1.90
16	60	19.0	3.10
20	60	22.1	4.60
22	60	25.1	6.50
25	75	35.0	7.00



### L - Bolt

- **Material:** Steel S235
- **Service:** Designed for use as an anchor embedded in concrete
- **Finish:** Electro Zinc Plated

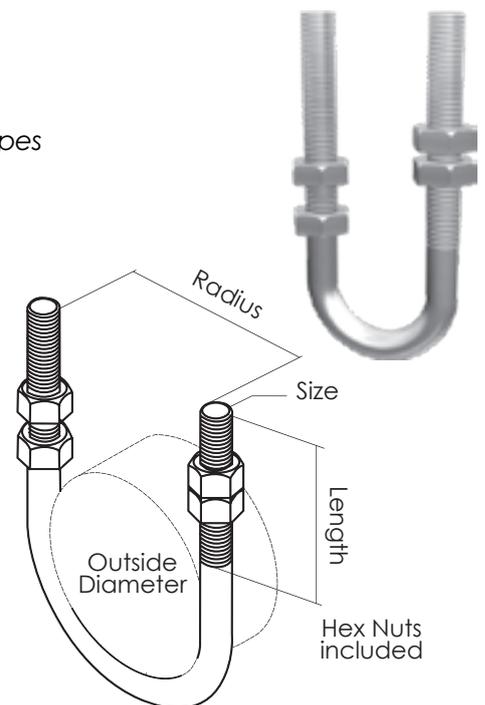
Thread			
Size	Length	Radius	Load Capacity
mm	mm	mm	KN
10	50	50	1.00
12	50	60	1.90
16	60	70	3.10
20	60	75	4.60
22	60	90	6.50
25	75	35.0	7.00



### Light Duty U - Bolt

- **Material:** Steel S235
- **Finish:** Electro Zinc Plated
- **Application:** Designed as a support, guide, or anchor for light - duty pipes

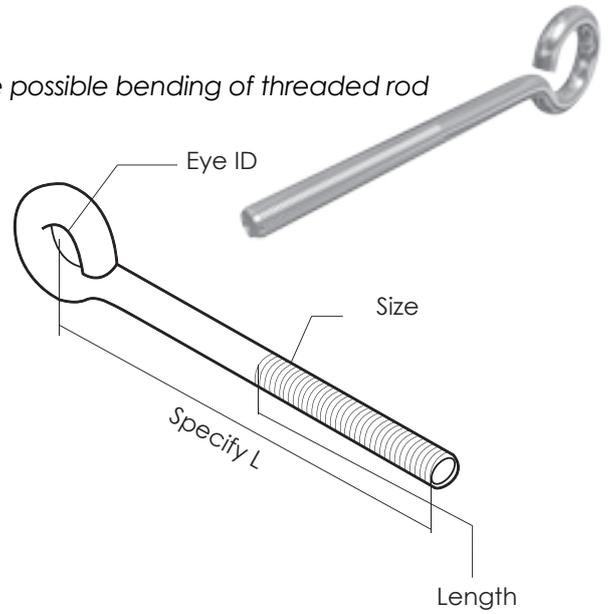
Nominal Pipe Size		Thread		Outside Diameter	Load Capacity
In	mm	Size	Length		
In	mm	mm	mm	mm	KN
1/2	15	6	20	22	0.40
3/4	20	6	30	28	0.40
1	25	6	30	35	0.40
5/4	32	6	30	43	0.40
3/2	40	6	35	50	0.40
2	50	6	35	61	0.40
5/2	65	8	35	78	0.90
3	80	8	40	92	0.90
4	100	10	50	116	1.00
6	150	12	50	170	2.00



## Eye Rod

- **Material:** Steel S235
- **Finish:** Electro Zinc Plated
- **Application:** Designed for use in hanger supports to eliminate possible bending of threaded rod

Thread		Eye	Load Capacity
Size	Length		
mm	mm	mm	KN
6	40	8	0.50
8	40	10	0.80
10	50	12	1.00
12	50	16	2.00
16	50	20	3.10
20	75	22	4.70
22	90	25	6.50
25	100	28	8.60
28	115	30	10.80
30	130	34	14.00

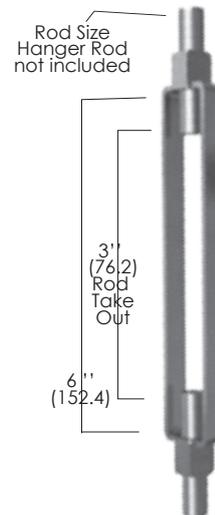


## Buckle

### Turnbuckle

- **Material:** Steel S235
- **Finish:** Electro Zinc Plated

Rod Size
mm
6
8
10
12
16
20
22
25
25
25
25



- Available in Zinc Plated Thread & Stainless Steel Thread

## ASTM F436

### Washers (SRW) | DIN 125 | ASTM F436

Zinc Plated	Stainless Steel	D	d	S
		(mm)	(mm)	(mm)
M6	M6	12	6.4	1.6
M8	M8	16	8.4	1.6
M10	M10	21	10.5	2
M12	M12	24	13	2.5
M16	M16	30	17	3
M18	M18	34	19	3.2
M20	M20	39	20.5	3.6



Order Example: SRW - M 12 -DIN 115

## Round Washers DIN 440, DIN 9021

### Washers (SRW) | DIN 440 | DIN 9021

DIN	Zinc Plated	Stainless Steel	D	d	S
			(mm)	(mm)	(mm)
440	M6		22	6.6	2
9021	M8	M8	24	8.4	2
9021	M10	M10	30	10.5	2.5
440	M12		45	13.5	4
9021	M12	M12	37	13	3
9021	M16	M16	50	17	3



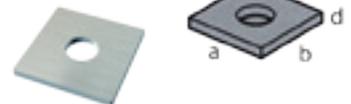
Order Example: SRW - M 12 DIN 9021

## Square Washers SSW

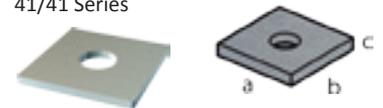
### Square Washers (SSW)

H.D. Galvanized Bolt	Stainless Steel Bolt	a x b x d
		(mm)
M8	M10	40 x 40 x (4-5-6)
M10	M12	40 x 40 x (4-5-6)
M12	M16	40 x 40 x (4-5-6)

SSW 40/40 for all channels  
41/21 Series



SSW 41/41 for all channels  
41/41 Series



Order Example: SSW 41/41 M 12 - d

## Fully Threaded Rods Grade 4.6 DIN 975 ASTM A 36, A193

### Threaded Rod (STR) - DIN 975 - ASTM A36

Zinc Plated Thread	Length	Load cap.
	(mm)	(kN)
M6	2000/3000	2.2
M8	2000/3000	4.0
M10	2000/3000	6.4
M12	2000/3000	12.9
M16	2000/3000	17.3
M18	2000	22.0
M20	2000	27.0



## Round Head Machine Screws

### Round Head (SRH) | DIN 7985

Zinc Plated Thread	Length	d
	(mm)	(mm)
M6	30-40	6.0
M8	30-40	8.0
M10	20-60	10.0



SRH - M10 DIN 7985

## Coupler Sleeves Rounded

### Coupler Sleeves (SCS)

Electro-plated Thread	Stainless Steel Thread	D	L	Load Capacity
		(mm)	(mm)	(kN)
M6	M6	10/10	15	2.2
M8	M8	12/14	20	4.0
M10	M10	13/16	25	6.4
M12	M12	16/20	30	9.3
M16	M16	21/25	40	17.3
M20	M20	26/32	50	27.0



SCS - M16

# FRAMING SYSTEMS

## Roofing Bolts

### Roofing Bolts (SRB)

- Materials : low carbon steel , carbon steel
- Steel S235 , grade 4.6 , 4.8 and 8.8
- Surfaces : plain , black and zinc plated
- Length = X (mm) – Y (mm)



Thread Size	M4 x - y	M5 x - y	M6 x - y	M8 x - y
	(mm)	(mm)	(mm)	(mm)
Length	10 - 50	10 - 80	12 - 120	16 - 150

Order Example: SRB - M6

## Carriage Bolts with Nut Below Head DIN 603

### Carriage Bolts (STC)

Zinc Plated	H.D. Galvanized Grade 4.6	Head	Head	Square Width	Square Depth
(E)	(E)	(A) mm	(H) mm	(O) mm	(P) mm
M5	M5	12.0	3.0	5.0	3.2
M6	M6	15.1	3.70	6.40	4.0
M8	M8	18.3	4.50	8.23	4.75
M10	M10	21.44	5.30	9.86	5.56
M16	M16	34.14	8.74	16.3	8.74



Order Example: STC - M6

## Hexagon Nuts DIN 934, DIN EN 24032, ASTM A 563

### Hexagon nut (SHN) | DIN 934 or ISO 4032 (= DIN EN 24032) | ASTM A563

Zinc Plated Thread	Stainless Steel Thread	S/m DIN	S/m ISO	e
		(mm)	(mm)	(mm)
M6	M6	10/5	10/6	11.5
M8	M8	13/6.5	13/7.5	15.0
M10	M10	17/8	16/9.5	19.6
M12	M12	19/10	18/12	21.9
M16	M16	24/13	24/15.5	27.7
M18	M18	26/16	26/16	22.0
M20	M20	30/18	29/20.5	27.0



Order Example: SHN - M12

## Hexagonal Rod Coupler Grade 8.8 ASTM a 563

### Hexagonal Rod Coupler with view hole (SHR)

Electroplated Thread	Stainless Steel Thread	D	L	Load capacity
		(mm)	(mm)	(kN)
M10	M10	13	40	6.4
M12	M12	17	40	9.3
M16	M16	22	50	17.3
M 18	M 18	23	60	22.0
M 20	M 20	25	70	27.0



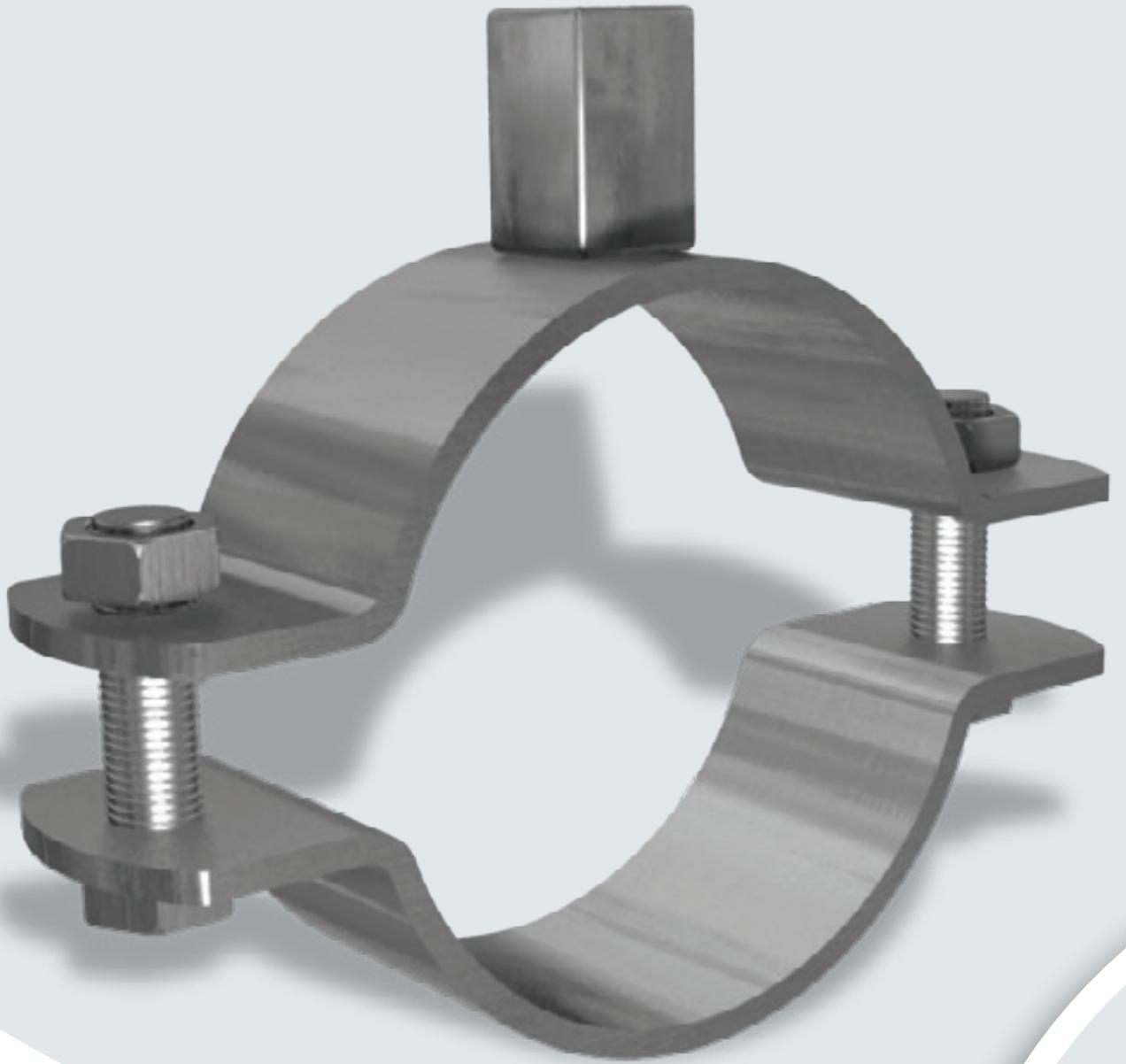
Order Example: HRC - GV - M 12

## DIN 933, DIN 24017, ASTM A307, A449

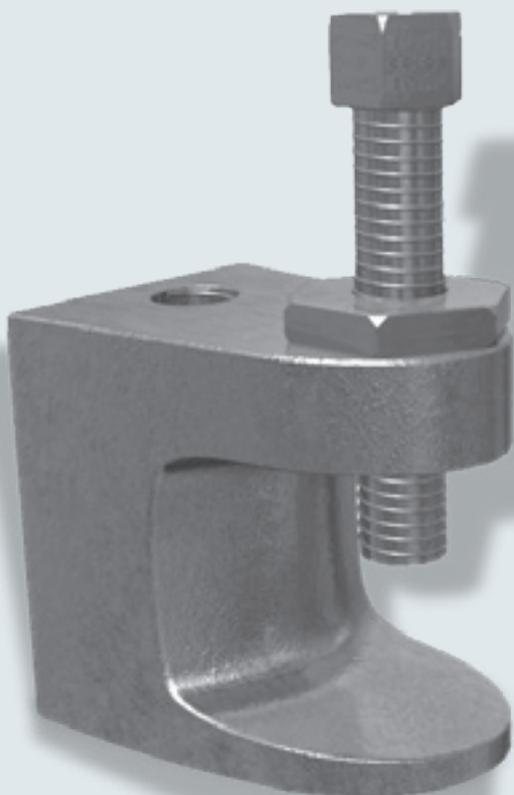
### Hex Head Bolt (SHB) | DIN 933 or EN 24017 ASTM A307, A449 (without nut)

Zinc Plated Dimension	Stainless Steel Dimension	S DIN	S EN
		(mm)	(mm)
M 6 x 12		10	10
M 6 x 25			
M 8 x 25	M 8 x 25		
M 8 x 40		13	13
M 10 x 20			
M 10 x 30	M 10 x 30		
M 10 x 45	M 10 x 45	17	16
M 10 x 60			
M 10 x 70			
M 12 x 22		19	18
M 12 x 25	M 12 x 25		
M 12 x 30	M 12 x 30		
M 12 x 40	M 12 x 40		
M 12 x 50			
M 12 x 60	M 12 x 60		
M 12 x 80	M 12 x 80	24	24
M 12 x 90			
M 16 x 40	M 16 x 40		
M 16 x 60	M 16 x 60	27	26
M 16 x 90	M 16 x 90		
M 18 x 40	M 18 x 40		
M 18 x 50	M 18 x 50	32	32
M 18 x 60	M 18 x 60		
M 18 x 80	M 18 x 80		
M 20 x 40	M 20 x 40	32	32
M 20 x 50	M 20 x 50		
M 20 x 60	M 20 x 60		
M 20 x 80	M 20 x 80		





# TECHNICAL DATA



## Rigid Steel Conduit (Heavy Wall Conduit)

Nominal Conduit Size		Outside Diameter		Nominal Inside Diameter		Minimum Weight with Couplings Attached	
In	mm	In	mm	In	mm	Lbs/100 Ft.	Kg/10 m
3/8	10	0.67	17.1	0.49	12.5	51.5	7.8
1/2	15	0.84	21.3	0.63	16.0	79.0	11.6
3/4	20	1.05	26.7	0.83	21.3	105.0	15.8
1	25	1.31	33.4	1.06	27.0	153.0	23.1
5/4	32	1.66	42.2	1.39	35.4	201.0	30.4
3/2	40	1.90	48.3	1.62	41.3	249.0	37.6
2	50	2.37	60.3	2.08	52.9	332.0	50.2
5/2	65	2.87	73.0	2.48	63.2	527.0	79.7
3	80	3.50	88.9	3.09	78.5	682.6	103.2
7/2	90	4.00	101.6	3.57	90.7	831.0	125.6
4	100	4.50	114.3	4.05	102.9	972.3	147.0
5	125	5.56	141.3	5.07	128.9	1313.6	198.6
6	150	6.62	168.3	6.09	154.8	1745.3	263.9

## Intermediate Metal Conduit (IMC)

Nominal Conduit Size		Outside Diameter		Nominal Inside Diameter		Minimum Weight with Couplings Attached	
In	mm	In	mm	In	mm	Lbs/100 Ft.	Kg/10 m
1/2	15	0.81	20.7	0.74	18.9	60.0	0.7
3/4	20	1.02	26.1	0.95	24.2	82.0	12.4
1	25	1.29	32.7	1.20	30.6	116.0	17.5
5/4	32	1.63	41.6	1.55	38.9	150.0	22.6
3/2	40	1.88	47.8	1.79	45.5	182.0	27.3
2	50	2.36	59.9	2.26	57.5	242.0	36.5
5/2	65	2.85	72.5	2.72	69.2	401.0	60.6
3	80	3.47	88.3	3.34	85.0	493.0	74.5
7/2	90	3.97	100.8	3.84	97.5	573.0	86.6
4	100	4.46	113.4	4.33	110.1	638.0	96.4

Conduit Size		Maximum Support Span	
In	mm	Feet	Meters
1	25	12	3.60
5/4 - 3/2	32 - 40	14	4.30
2 - 5/2	50 - 65	16	4.90
3 - 6	80 - 150	20	6.00

Conduit plus weight of heaviest conductor combination as specified by the National Electrical Code. Rigid and Intermediate Metal Conduit shall be supported at least every 10 feet (3.05m) and within 3 feet (914mm) of each outlet box, junction box, cabinet, or fitting. Except for straight runs of conduit connected with couplings which may be supported in accordance with NEC Article 345 and 346, provided such supports prevent transmission of stresses to termination where conduit is deflected between supports.

## Pipe Comparison Data

Nominal Pipe Size		Outside Diameter	
In	mm	DIN(mm)	ISO(mm)
3/8	10	14	17.2
1/2	15	20	21.3
3/4	20	25	26.9
1	25	30	33.7
5/4	32	38	42.4
3/2	40	44.5	48.3
2	50	57	60.3
5/2	65	76.1	76.1
3	80	88.9	88.9
7/2	90	101.6	101.6
4	100	108	114.3
5	125	133	139.7
6	150	159	168.3
8	200	216	219.1
10	250	267	273.0
12	300	318	323.9
14	350	368	355.6
16	400	419	406.4
18	450	459	457.2
20	500	521	508.0
24	600	622	609.6
28	700	720	711.2
32	800	820	812.8
36	900	920	944
40	1000	1020	1016.0

## Electrical Metallic Tubing (EMT) Thinwall Conduit

Conduit plus weight of heaviest conductor combination as specified by the National Electrical Code. Electrical Metallic tubing shall be supported at least every 10 feet and within 3 feet (914mm) of each outlet box, junction box, cabinet, or fitting. See NEC Article 348.

Nominal Conduit Size		Outside Diameter		Nominal Inside Diameter		Minimum Weight with Couplings Attached	
In	mm	In	mm	In	mm	Lbs/100 Ft.	Kg/10m
3/8	10	0.57	14.7	0.49	12.5	23.0	3.4
1/2	15	0.70	17.9	0.62	15.8	28.5	4.3
3/4	20	0.92	23.4	0.82	20.9	43.5	6.5
1	25	1.16	29.5	1.04	26.6	64.0	9.6
5/4	32	1.51	38.3	1.38	35.1	95.0	14.3
3/2	40	1.74	44.2	1.61	40.9	110.0	16.6
2	50	2.19	55.8	2.06	52.5	140.0	21.1
5/2	65	2.87	73.0	2.73	69.4	205.0	31.0
3	80	3.50	88.9	3.35	85.2	250.0	37.8
7/2	90	4.00	101.6	3.83	97.4	325.0	49.1
4	100	4.50	114.3	4.33	110.1	370.0	55.9

Dimensions taken from ANSI C80.3-1977

# Rigid Aluminum Conduit

Dimensions taken from ANSI C80.5-1977.

Nominal Conduit Size		Outside Diameter		Nominal Inside Diameter		Minimum Weight with Couplings Attached	
In	mm	In	mm	In	mm	Lbs/100 Ft.	Kg/10m
1/2	15	0.84	21.3	0.63	16.1	27.4	5.3
3/4	20	1.05	26.7	0.83	21.2	36.4	12.4
1	25	1.31	33.4	1.06	27.0	53.0	17.5
5/4	32	1.66	42.2	1.39	35.4	69.6	22.6
3/2	40	1.90	48.3	1.62	41.2	82.2	27.5
2	50	2.37	60.3	2.08	52.9	115.7	36.5
5/2	65	2.87	73.0	2.48	63.2	182.5	60.6
3	80	3.50	88.9	3.09	78.5	238.9	74.5
7/2	90	4.00	101.6	3.57	90.7	287.7	86.6
4	100	4.50	114.3	4.05	102.9	340.0	51.4
5	125	5.56	141.3	5.07	128.9	465.4	70.3
6	150	6.62	168.3	6.09	154.8	612.5	92.6

Conduit Size		Maximum Support Span	
In	mm	Feet	Meters
1/2 - 3/4	15-20	10	3.00
1	25	12	3.60
5/4 - 3/2	32-40	14	4.30
2 - 5/2	50-65	16	4.90
3-6	80-150	20	6.00

Conduit plus weight of heaviest conductor combination as specified by the National Electrical Code. Aluminum Rigid Conduit shall be supported at least every 10 feet (3.05m) and within 3 feet (914mm) of each outlet box, junction box, cabinet, or fitting. Except for straight runs of conduit connected with couplings which may be supported in accordance with NEC Table 346-12, provided such supports prevent transmission of stresses to termination where conduit is deflected between supports.



## Copper Tubing, Type L

Nominal Conduit Size		Outside Diameter		Nominal Inside Diameter		Minimum Weight with Couplings Attached	
In	mm	In	mm	In	mm	Lbs/100 Ft.	Kg/10m
3/8	10	0.67	17.1	0.49	12.5	57.0	8.6
1/2	15	0.84	21.3	0.62	15.8	85.0	12.8
3/4	20	1.05	26.7	0.82	20.9	113.0	17.1
1	25	1.31	33.4	1.04	26.6	168.0	26.0
5/4	32	1.66	42.2	1.38	35.1	227.0	34.3
3/2	40	1.90	48.3	1.61	40.9	272.0	41.1
2	50	2.37	60.3	2.06	52.5	365.0	55.2
5/2	65	2.87	73.0	2.46	62.7	579.0	87.5
3	80	3.50	88.9	3.06	77.9	758.0	114.6
7/2	90	4.00	101.9	3.54	90.1	911.0	137.6
4	100	4.50	114.3	4.02	102.3	1079.0	163.1
5	125	5.56	141.3	5.04	128.2	1462.0	221.0
6	150	6.62	168.3	6.06	154.1	1897.0	286.8
8	200	8.62	219.1	10.02	202.7	2855.0	431.6
10	250	10.75	271.1	7.98	254.5	4048.0	612.0
12	300	12.75	323.1	12.00	304.8	4956.0	749.3
14	350	14.00	355.6	13.25	336.6	5457.0	825.1
16	400	16.00	406.4	15.25	387.4	6258.0	946.2
18	450	18.00	457.2	17.20	438.2	7059.0	1067.3
20	500	20.00	508.0	19.25	489.0	7860.0	1188.4
24	600	24.00	609.6	23.25	590.6	9462.0	1430.6

## Schedule 40 PUC Plastic Pipe

Nominal Conduit Size		Outside Diameter		Nominal Inside Diameter		Minimum Weight with Couplings Attached	
In	mm	In	mm	In	mm	Lbs/100 Ft.	Kg/10m
1/8	3	0.40	10.3	0.26	6.8	4.7	0.7
1/4	6	0.54	13.7	0.36	9.2	8.2	1.2
3/8	10	0.67	17.1	0.49	12.5	10.9	1.6
1/2	15	0.84	21.3	0.62	15.8	16.4	2.4
3/4	20	1.05	26.7	0.82	20.9	21.8	3
1	25	1.31	33.4	1.04	26.6	32.1	4.8
5/4	32	1.66	42.2	1.38	35.1	43.4	6.5
3/2	40	1.90	48.3	1.61	40.9	51.8	7.8
2	50	2.37	60.3	2.06	52.5	69.5	10.3
5/2	65	2.87	73.0	2.46	62.7	109.6	16.5
3	80	3.50	88.9	3.06	77.9	143.5	21.7
7/2	90	4.00	101.6	3.54	90.1	175.6	26.5
4	100	4.50	114.3	4.02	102.3	204.3	30.9
5	125	5.56	141.3	5.04	128.2	281.7	42.6
6	150	6.62	168.3	6.06	154.1	360.9	54.5
8	200	8.62	219.1	7.98	202.7	545.3	82.4
10	250	10.75	273.1	10.02	254.5	791.3	119.6
12	300	12.75	323.9	11.93	303.2	1035.2	156.5

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