



WE ARE THE  
**RELIABLE SOLUTION  
PROVIDERS FOR  
MODULAR SUPPORT  
SYSTEMS**

Product Catalog  
**2023-24**



MANUFACTURING  
EXPERTISE

German Engineered



# About **Fixotec**

**Fixotec** is a reliable solution provider of modular supports and vibration control systems. Founded in 1996, Fixotec is headquartered at Burgbernheim, Germany. Fixotec currently is part of the Symbionet Group (belongs to the Müller family –Inventors of Pipe Clamps in Germany).

As a leading manufacturer of fixing technology for plumbing, heating, and ventilation systems, we place our value on quality. To ensure this, our complete range of products are German-Engineered.

With high-quality products and comprehensive service, we assist our customers in overcoming challenges in the areas of fastening technology and sound insulation. We see ourselves as being in partnership with our customers and present ourselves to the market as a systems supplier.



**Fixotec stands out for its people, agility, and reliability.**

## Manufacturing



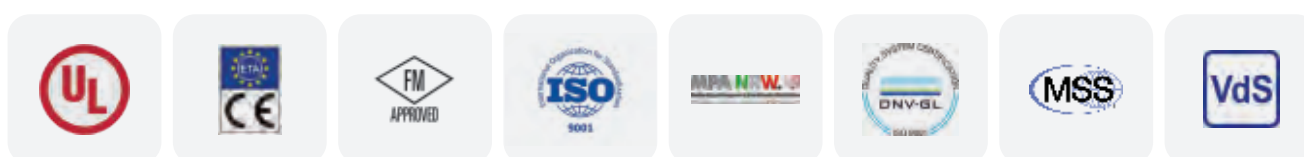
Fixotec employs methods and efficient manufacturing procedures, which, when combined with the expertise of experienced personnel, result in high-quality goods. Our benchmark in materials, design details, and finishes are very high to provide clients with a product they can trust in structure and functioning.

To cater to our German standards of manufacturing, we have extensive expertise with the following: Rail Profiling, Manual welding (MIG, MAG, TIG), Robotic Welding, Spot welding, CNC Machining, Bending punching presses, Cutting and drilling, Stamping, etc.

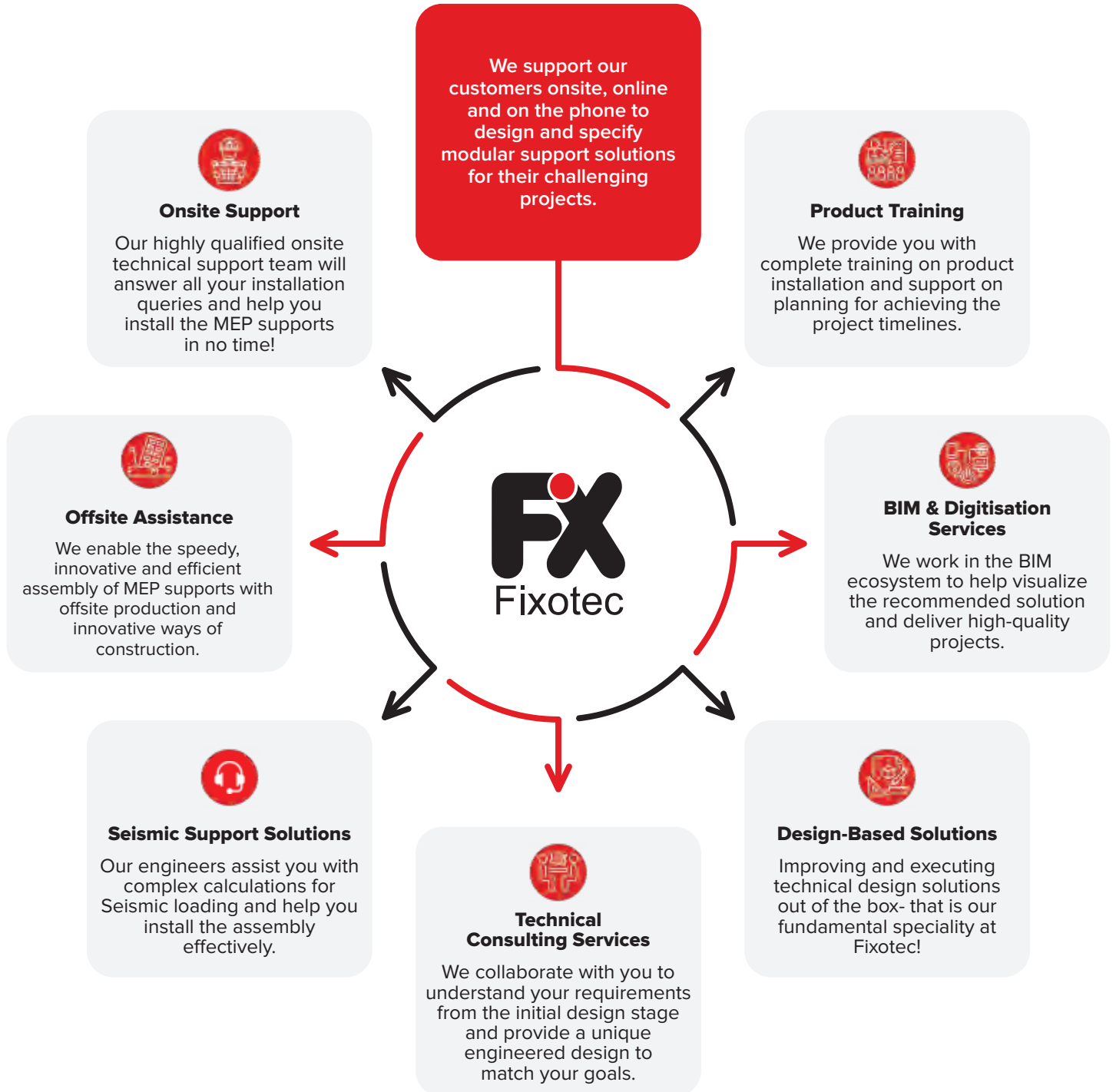
## Our **Certifications & Quality**

Our top-quality performance was assessed by the international certification body DNV-GL, and the Quality management system meets the requirements of ISO 9001.

Our products are certified with the following notable certification bodies: UL (Underwriters' Laboratories), FM (Factory Mutual), ETA (European technical assessment with CE mark), VdS (by German Insurance Association-GDV),



# Our Key **Services**



# Sectors

We provide modular support systems for...

## Buildings



Data Centres



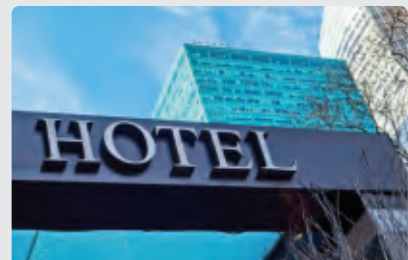
Residential



Commercial



Hospitals



Hotels

## Industries



Automotive



Manufacturing



Power



Warehousing

# Segments



HVAC



Plumbing



Electrical



Firefighting

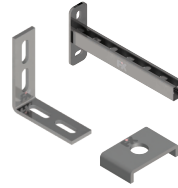


Multiple Services



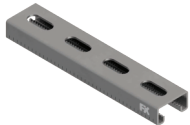
FXC  
Mounting Channels

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FXC  
Mounting Channel  
Accessories

| 17-31



FXR  
Mounting Rails

| 32-42



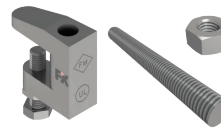
FXR  
Mounting Rail  
Accessories

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Pipe  
Clamps

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Fixing &  
Fastening  
Systems

| 90-98



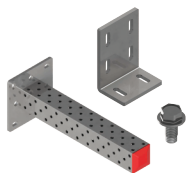
Ground  
Mounting  
Systems

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FXT  
Heavy Rail  
Profiles

| 105-109



FXT  
Heavy Rail  
Profile Accessories

| 110-121

# FXC MOUNTING CHANNELS

FXC Mounting Channels

FXR Mounting Channel Accessories

FXR Mounting Rails

FXR Mounting Rail Accessories

Pipe Clamps

Fixing & Fastening Systems

Ground Mounting Systems

FXT Heavy Rail Profiles

FXT Heavy Rail Profile Accessories



FXC 27/18

| 07



FXC 28/30

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FXC 38/24

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FXC 38/40

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FXC 40/60

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FXC 40/80

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FXC 38/48

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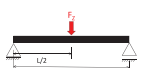
FXC 38/80

| 14



FXC 40/120

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Technical Data & Load Tables

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**Mounting Channels**

Universally slotted mounting channel profile

**Material specifications**

<b>Material</b>	DX51D or Equivalent steel DD11 or Equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

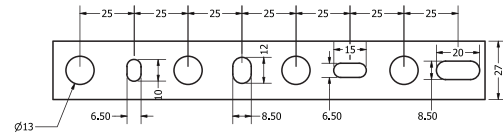
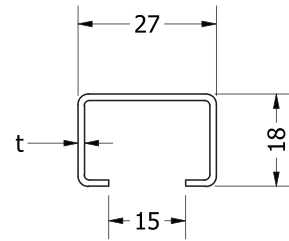


**Applications**

- Installation of light to medium-duty ventilation ducts, plumbing & firefighting pipes and cable trays
- Secondary support structure for installation of different services.

**Features & Benefits**

- Wide range of mounting options in conjunction with our FXC mounting channel accessories.
- Quick and efficient attachment of multiple support structure.
- Lateral and vertical adjustment with reliable fastening.
- High load bearing capacity owing to special material properties and design.



**Select Variant**

Article No.		Product Description	L (mm)	W (mm)	H (mm)	t (mm)
Galvanized (vz)	HDG (fvz)					
300000	300001	FXC Mounting Channel 27 18 1.25, 6 m	6000	27	18	1.25
300010	300011	FXC Mounting Channel 27 18 1.25, 3 m	3000	27	18	1.25
300020	300021	FXC Mounting Channel 27 18 1.25, 2 m	2000	27	18	1.25
300030	300031	FXC Mounting Channel 27 18 1.25, 1 m	1000	27	18	1.25

\*Available on request

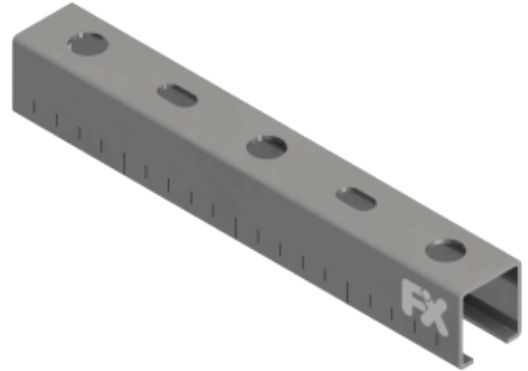
FXC Mounting Channels  
 FXC Mounting Channel Accessories  
 FXR Mounting Rails  
 FXR Mounting Rail Accessories  
 Pipe Clamps  
 Fixing & Fastening Systems  
 Ground Mounting Systems  
 FXT Heavy Rail Profiles  
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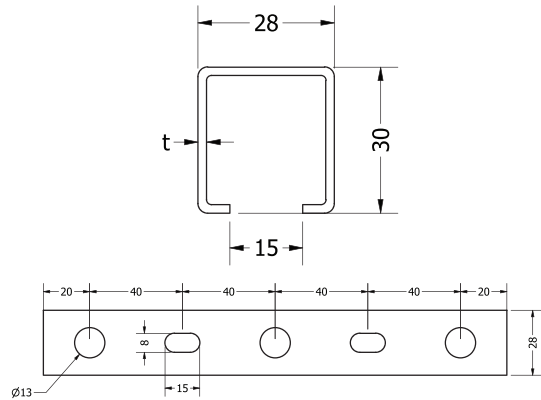


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Article No.		Product Description	L (mm)	W (mm)	H (mm)	t (mm)
Galvanized (vz)	HDG (fvz)					
300040	300041	FXC Mounting Channel 28 30 1.75, 6 m	6000	28	30	1.75
300050	300051	FXC Mounting Channel 28 30 1.75, 3 m	3000	28	30	1.75
300060	300061	FXC Mounting Channel 28 30 1.75, 2 m	2000	28	30	1.75

\*Available on request

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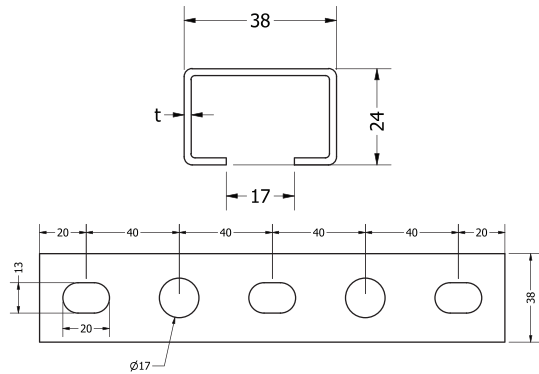


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Article No.		Product Description	L (mm)	W (mm)	H (mm)	t (mm)
Galvanized (vz)	HDG (fvz)					
300070	300071	FXC Mounting Channel 38 24 1.75, 6 m	6000	38	24	1.75
300080	300081	FXC Mounting Channel 38 24 1.75, 3 m	3000	38	24	1.75
300090	300091	FXC Mounting Channel 38 24 1.75, 2 m	2000	38	24	1.75

\*Available on request

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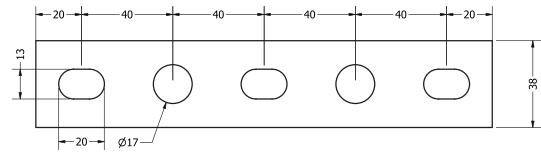
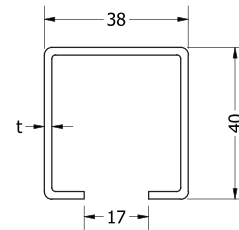


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Article No.		Product Description	L (mm)	W (mm)	H (mm)	t (mm)
Galvanized (vz)	HDG (fvz)					
300100	300101	FXC Mounting Channel 38 40 2, 6 m	6000	38	40	2.0
300110	300111	FXC Mounting Channel 38 40 2, 3 m	3000	38	40	2.0
300120	300121	FXC Mounting Channel 38 40 2, 2 m	2000	38	40	2.0

\*Available on request

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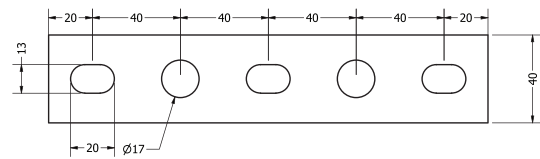
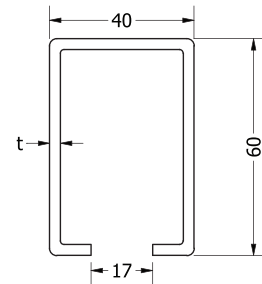


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**Select Variant**

Article No.		Product Description	L (mm)	W (mm)	H (mm)	t (mm)
Galvanized (vz)	HDG (fvz)					
300130	300131	FXC Mounting Channel 40 60 3, 6 m	6000	40	60	3.0
300140	300141	FXC Mounting Channel 40 60 3, 3 m	3000	40	60	3.0
300150	300151	FXC Mounting Channel 40 60 3, 2 m	2000	40	60	3.0

\*Available on request

**Mounting Channels**

Universally slotted mounting channel profile

**Material specifications**

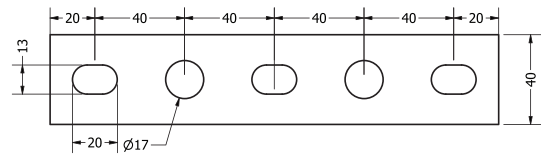
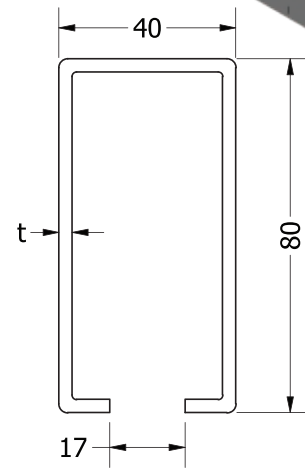
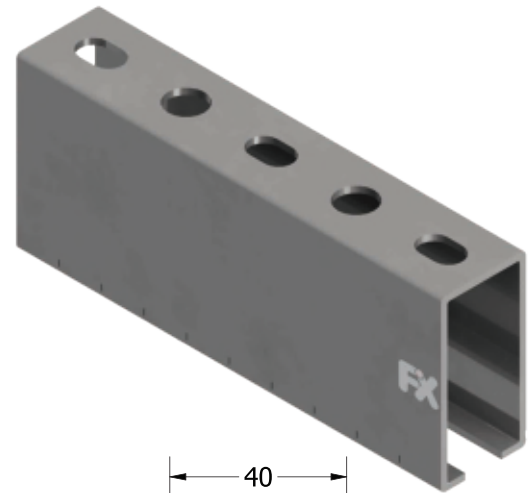
<b>Material</b>	DX51D or Equivalent steel DD11 or Equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

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Article No.		Product Description	L (mm)	W (mm)	H (mm)	t (mm)
Galvanized (vz)	HDG (fvz)					
300260	300261	FXC Mounting Channel 40 80 3, 6 m	6000	40	80	3.0
300270	300271	FXC Mounting Channel 40 80 3, 3 m	3000	40	80	3.0
300280	300281	FXC Mounting Channel 40 80 3, 2 m	2000	40	80	3.0

\*Available on request

**Mounting Channels**

Universally slotted H-profile mounting channel

Material specifications	
<b>Material</b>	DX51D or Equivalent steel DD11 or Equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

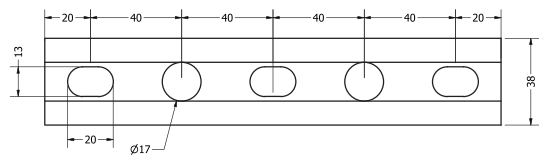
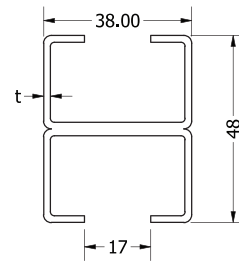


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**Select Variant**

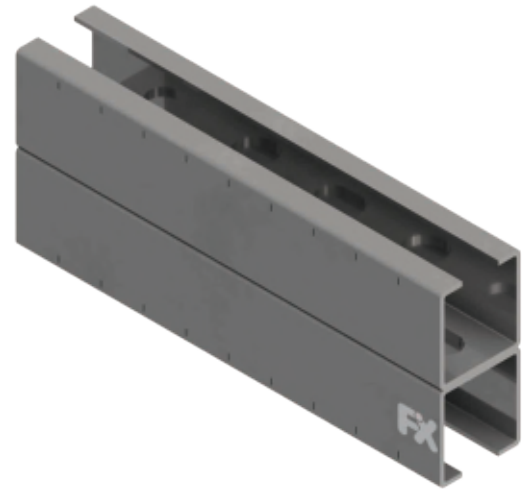
Article No.		Product Description	L (mm)	W (mm)	H (mm)	t (mm)
Galvanized (vz)	HDG (fvz)					
300170	300171	FXC Mounting Channel 38 48 1.75, 6 m	6000	38	48	1.75
300180	300181	FXC Mounting Channel 38 48 1.75, 3 m	3000	38	48	1.75
300190	300191	FXC Mounting Channel 38 48 1.75, 2 m	2000	38	48	1.75

\*Available on request

**Mounting Channels**

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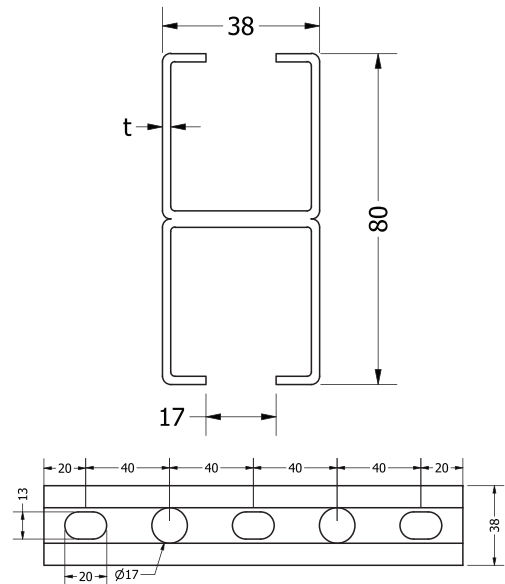


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Article No.		Product Description	L (mm)	W (mm)	H (mm)	t (mm)
Galvanized (vz)	HDG (fvz)					
300200	300201	FXC Mounting Channel 38 80 2, 6 m	6000	38	80	2.0
300210	300211	FXC Mounting Channel 38 80 2, 3 m	3000	38	80	2.0
300220	300221	FXC Mounting Channel 38 80 2, 2 m	2000	38	80	2.0

\*Available on request

FXC Mounting Channels  
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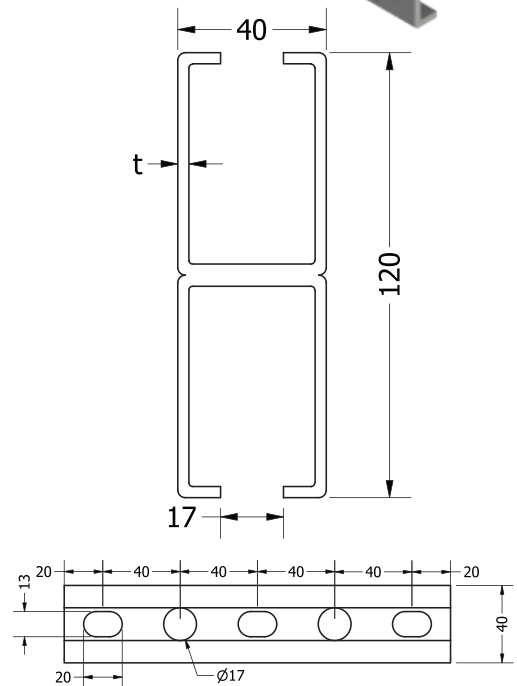


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Article No.		Product Description	L (mm)	W (mm)	H (mm)	t (mm)
Galvanized (vz)	HDG (fvz)					
300230	300231	FXC Mounting Channel 40 120 3, 6 m	6000	40	120	3.0
300240	300241	FXC Mounting Channel 40 120 3, 3 m	3000	40	120	3.0
300250	300251	FXC Mounting Channel 40 120 3, 2 m	2000	40	120	3.0

\*Available on request

## Technical Data:

Profile	Profile weight [kg/m]	Profile cross-section [cm <sup>2</sup> ]	Moment of inertia		Resistance moment	
			I <sub>y</sub> [cm <sup>4</sup> ]	I <sub>z</sub> [cm <sup>4</sup> ]	W <sub>y</sub> [cm <sup>3</sup> ]	W <sub>z</sub> [cm <sup>3</sup> ]
27 18	0.600	0.690	0.690	0.690	0.690	0.690
28 30	1.150	1.360	1.360	1.360	1.360	1.360
38 24	1.210	1.400	1.400	1.400	1.400	1.400
38 40	1.820	2.210	2.210	2.210	2.210	2.210
40 60	3.500	4.440	4.440	4.440	4.440	4.440
40 80	4.680	5.640	5.640	5.640	5.640	5.640
38 48 H-Profile	2.430	2.790	2.790	2.790	2.790	2.790
38 80 H-Profile	3.580	4.420	4.420	4.420	4.420	4.420
40 120 H-Profile	7.000	8.880	8.880	8.880	8.880	8.880

## Load bearing capacities of profiles for bending around the y-axis [N]:

Profile	L [m]						L [m]					
	0.5	1	1.5	2	4	6	0.5	1	1.5	2	4	6
27 18	376	143	60	29	-	-	280	84	35	17	-	-
28 30	1099	549	303	162	-	-	814	410	178	95	-	-
38 24	1094	541	233	122	-	-	812	317	136	72	-	-
38 40	2609	1308	867	523	92	-	1927	979	559	307	54	-
40 60	7019	3537	2349	1748	467	117	5157	2643	1758	1272	274	69
40 80	11311	5733	3815	2844	1080	359	8246	4274	2852	2128	634	211
38 48 H-Profile	3100	1559	1032	753	139	-	2280	1165	772	442	82	-
38 80 H-Profile	7834	3977	2646	1971	741	235	5696	2962	1977	1475	435	138
40 120 H-Profile	22447	11542	7711	5765	2785	1353	16040	8554	5749	4307	2026	794

Profile	L [m]						L [m]					
	0.5	1	1.5	2	4	6	0.5	1	1.5	2	4	6
27 18	187	60	25	12	-	-	156	47	20	-	-	-
28 30	544	274	128	68	-	-	451	228	100	54	-	-
38 24	542	228	98	52	-	-	450	179	77	41	-	-
38 40	1287	652	401	220	39	-	1067	542	315	173	30	-
40 60	3444	1760	1172	873	197	49	2848	1464	976	717	154	39
40 80	5508	2847	1901	1420	455	151	4541	2365	1582	1182	357	119
38 48 H-Profile	1523	776	515	317	59	-	1260	645	429	249	46	-
38 80 H-Profile	3804	1973	1318	984	312	99	3133	1639	1097	819	245	78
40 120 H-Profile	10711	5697	3833	2873	1391	570	8763	4723	3186	2391	1141	447

### Note:

- The determined loads apply for static loads. Calculation based on Eurocode (EC3).
- The safety coefficient = 1.54 takes into account the partial and combination coefficients as well as the safety factor of the material.
- For the given values, the permissible steel stress and the maximum permissible deflection L/200 are not exceeded, taking the deadweight into consideration.



# FXC MOUNTING CHANNEL ACCESSORIES

FXC Mounting Channels

FXC Mounting Channel Accessories

FXR Mounting Rails

FXR Mounting Rail Accessories

Pipe Clamps

Fixing & Fastening Systems

Ground Mounting Systems

FXT Heavy Rail Profiles

FXT Heavy Rail Profile Accessories

## Brackets



FXC Cantilever Bracket

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FXC Bracket Support

| 19

## Connectors



FXC Mounting Angle 90

| 20



FXC Mounting Angle 135

| 21



FXC Mounting Angle 90 (Internal)

| 22



FXC Saddle Flange

| 23



FXC Variable Saddle Flange

| 24



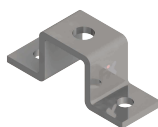
FXC Longitudinal Connector

| 25



FXC Lateral Angle Connector

| 26



FXC Cross Connector

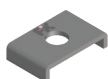
| 27



FXC Girder Cleat

| 28

## Accessories



FXC Retaining Clamp

| 29



FXC Protection Cap

| 29



FXC Rail Nut

| 30



FXC Hammer Head Fastener

| 31

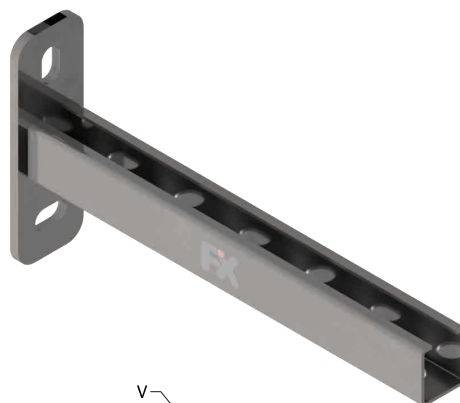
# FXC Cantilever Bracket

## Brackets

Pre Fabricated Cantilever Bracket

### Material specifications

<b>Material</b>	<b>Base Plate</b> : S235 JR or equivalent steel <b>Mounting Rail</b> : DD11 or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

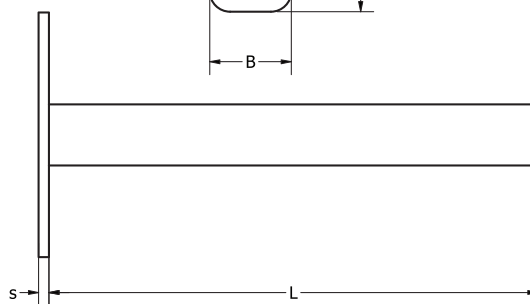
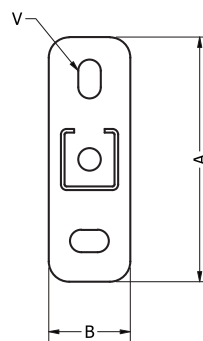


### Applications

- Fastening light to medium-duty ventilation ducts, plumbing & firefighting pipes and cable trays as a cantilever support structure
- Supporting structures for suspended services
- Suitable for Trench and Tunnel application.

### Features & Benefits

- Easy to install with less components
- Available in variable lengths (Upto 0.6 m) for supporting different services installations
- Ensures secured connections with the FXC Rail nut



### Select Variant

Article No.		Product Description	FXC Mounting Channel	Length (L) (mm)	AxBxs (mm)	V (mm)	**Max. Recommended Load (N)	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)							
333000	333001	FXC Cantilever Bracket 27   18   1.25, 200 mm	27   18	200	120 x 40 x 4	11.0 x 19	463	25
333010	333011	FXC Cantilever Bracket 27   18   1.25, 300 mm	27   18	300	120 x 40 x 4	11.0 x 19	311	25
333020	333021	FXC Cantilever Bracket 27   18   1.25, 500 mm	27   18	500	120 x 40 x 4	11.0 x 19	186	25
333030	333031	FXC Cantilever Bracket 28   30   1.75, 240 mm	28   30	240	120 x 40 x 5	11.0 x 19	817	25
333040	333041	FXC Cantilever Bracket 28   30   1.75, 400 mm	28   30	400	120 x 40 x 5	11.0 x 19	490	25
333050	333051	FXC Cantilever Bracket 38   40   2.00, 160 mm	38   40	160	125 x 50 x 8	13.5 x 20	3260	25
333060	333061	FXC Cantilever Bracket 38   40   2.00, 240 mm	38   40	240	125 x 50 x 8	13.5 x 20	2173	25
333070	333071	FXC Cantilever Bracket 38   40   2.00, 320 mm	38   40	320	125 x 50 x 8	13.5 x 20	1630	25
333080	333081	FXC Cantilever Bracket 38   40   2.00, 400 mm	38   40	400	125 x 50 x 8	13.5 x 20	1304	25
333090	333091	FXC Cantilever Bracket 38   40   2.00, 480 mm	38   40	480	125 x 50 x 8	13.5 x 20	1086	25
333100	333101	FXC Cantilever Bracket 38   40   2.00, 560 mm	38   40	560	125 x 50 x 8	13.5 x 20	931	25
333110	333111	FXC Cantilever Bracket 38   40   2.00, 640 mm	38   40	640	125 x 50 x 8	13.5 x 20	815	25
333120	333121	FXC Cantilever Bracket 38   40   2.00, 720 mm	38   40	720	125 x 50 x 8	13.5 x 20	724	25
333130	333131	FXC Cantilever Bracket 38   40   2.00, 800 mm	38   40	800	125 x 50 x 8	13.5 x 20	652	25
333140	333141	FXC Cantilever Bracket 38   40   2.00, 1040 mm	38   40	1040	125 x 50 x 8	13.5 x 20	501	25
333150	333151	FXC Cantilever Bracket 40   60   3.00, 560 mm	40   60	560	165 x 60 x 8	13.5 x 20	1838	1
333160	333161	FXC Cantilever Bracket 40   60   3.00, 640 mm	40   60	640	165 x 60 x 8	13.5 x 20	1608	1
333170	333171	FXC Cantilever Bracket 40   60   3.00, 800 mm	40   60	800	165 x 60 x 8	13.5 x 20	1286	1
333180	333181	FXC Cantilever Bracket 40   60   3.00, 1040 mm	40   60	1040	165 x 60 x 8	13.5 x 20	989	1
333190	333191	FXC Cantilever Bracket 38   80   2.00, 400 mm	38   80	400	165 x 60 x 8	13.5 x 20	3383	1
333200	333201	FXC Cantilever Bracket 38   80   2.00, 800 mm	38   80	800	165 x 60 x 8	13.5 x 20	1691	1

\*Available on request

\*\* Loads are at the centre of the channel.

# FXC Bracket Support

## Brackets

Pre Fabricated Bracket to support cantilever Loads

### Material specifications

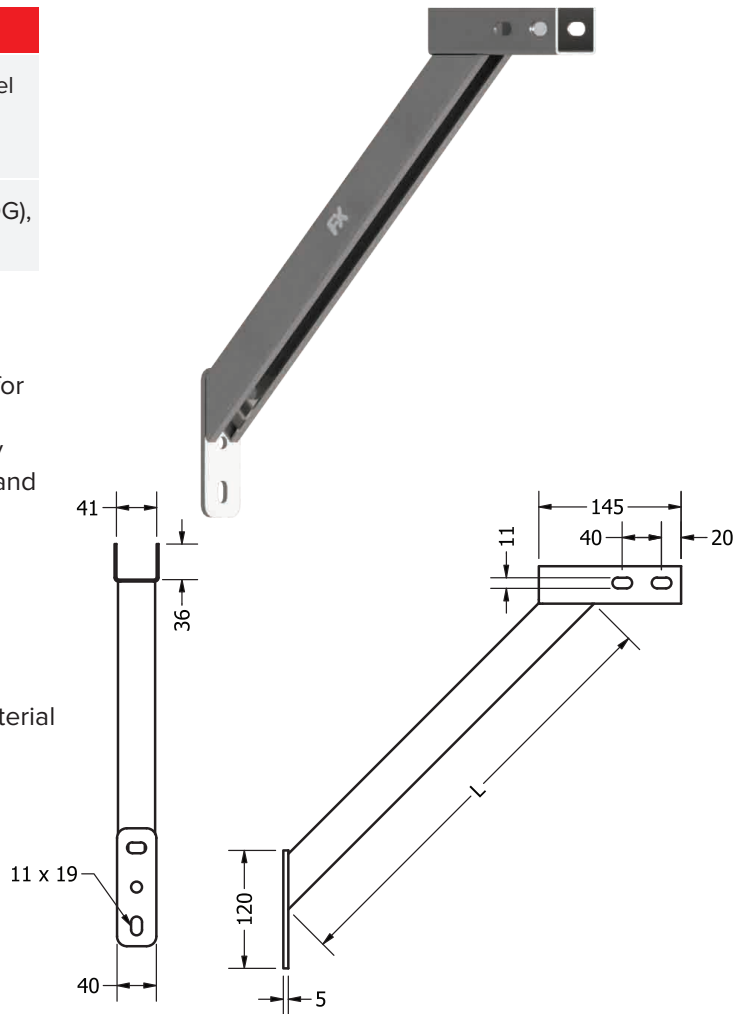
<b>Material</b>	<b>Base Plate</b> : S235 JR or equivalent steel <b>U Profile &amp; Mounting Rail</b> : DD11 or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

### Applications

- Bracing for FXC Mounting Channels structures for carrying higher loads
- Supporting installation of medium to heavy-duty ventilation ducts, plumbing & firefighting pipes and cable trays

### Features & Benefits

- Ease of installation with less components
- Prefabricated for rapid installation
- High load bearing capacity owing to special material properties and design.



### Select Variant

Article No.		Product Description	FXC Mounting Channel	L (mm)	Max. Recommended Load (N)	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)					
332000	332001	FXC Bracket Support, 440 mm	38   24-40   120	440	6000	1
332010	332011	FXC Bracket Support, 900 mm	38   24-40   120	900	3000	1

\*Available on request

# FXC Mounting Angle 90°

## Connectors

Connection element for 90° connections of FXC Mounting Channels

### Material specifications

<b>Material</b>	S235 JR or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

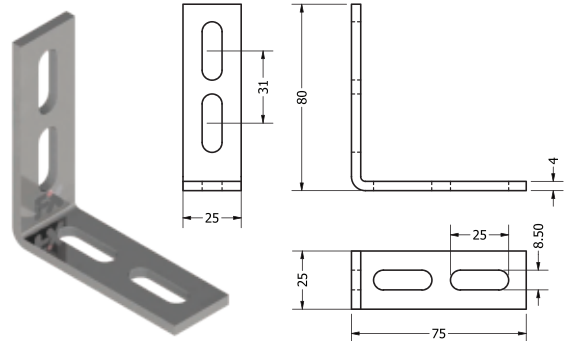
### Applications

- Building frame structures using FXC Mounting Channels
- Structural connection of FXC Mounting Channels
- Connecting FXC Mounting Channels at right angles

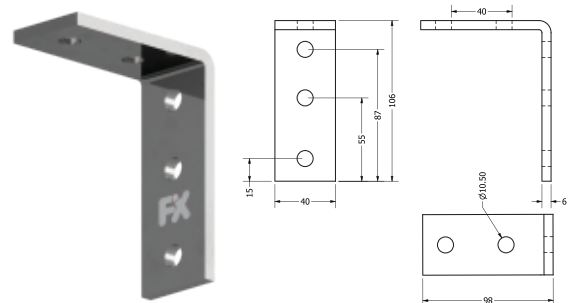
### Features & Benefits

- Quick and efficient connections of multiple support structures
- Creation of rigid structures without welding
- High load bearing capacity owing to special material properties and design

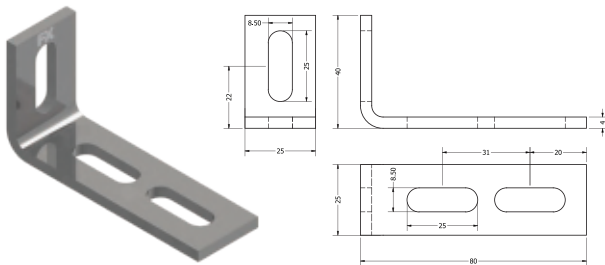
### FXC Mounting Angle 90° (2+2) - 27|18, 28|30



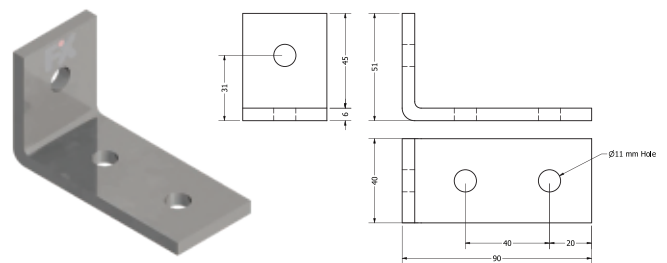
### FXC Mounting Angle 90° (2+2) - 38|24, 38|40, 40|60



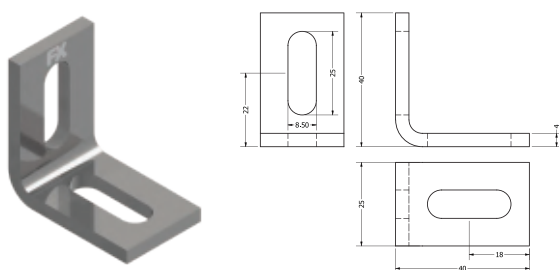
### FXC Mounting Angle 90° (2+1) - 27|18, 28|30



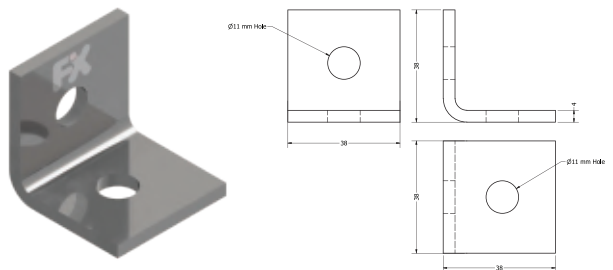
### FXC Mounting Angle 90° (2+1) - 38|24, 38|40, 40|60



### FXC Mounting Angle 90° (1+1) - 27|18, 28|30



### FXC Mounting Angle 90° (1+1) - 38|24, 38|40, 40|60



### Select Variant

Article No.		Product Description	FXC Mounting Channel	Angle	Width (mm)	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)					
337200	337201	FXC Mounting Angle 90° (2+2) - 27   18, 28   30	27   18, 28   30	90°	25	50
337100	337101	FXC Mounting Angle 90° (2+2) - 38   24, 38   40, 40   60	38   24, 38   40, 40   60	90°	40	25
337205	337206	FXC Mounting Angle 90° (2+1) - 27   18, 28   30	27   18, 28   30	90°	25	50
337105	337106	FXC Mounting Angle 90° (2+1) - 38   24, 38   40, 40   60	38   24, 38   40, 40   60	90°	40	30
337210	337211	FXC Mounting Angle 90° (1+1) - 27   18, 28   30	27   18, 28   30	90°	25	50
337110	337111	FXC Mounting Angle 90° (1+1) - 38   24, 38   40, 40   60	38   24, 38   40, 40   60	90°	38	50

\*Available on request

# FXC Mounting Angle 135

## Connectors

Connection element for 135° connections of FXC Mounting Channels

### Material specifications

<b>Material</b>	S235 JR or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

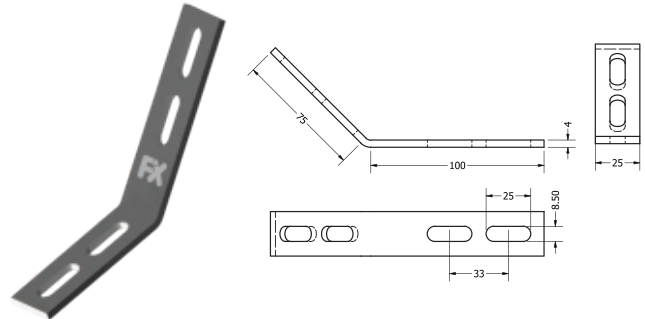
### Applications

- Building frame structures using FXC Mounting Channels
- Structural connection of FXC Mounting Channels
- Connecting FXC Mounting Channels at 45°/135° angles

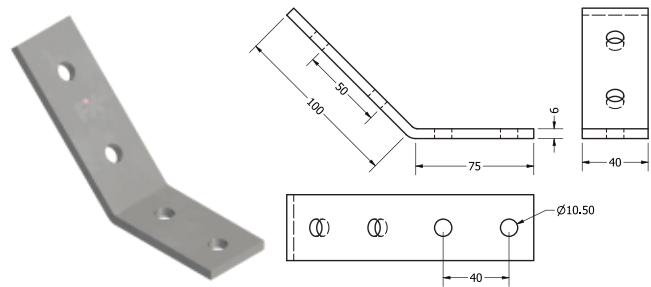
### Features & Benefits

- Quick and efficient connections of multiple support structures
- Creation of rigid structures without welding
- High load bearing capacity owing to special material properties and design.

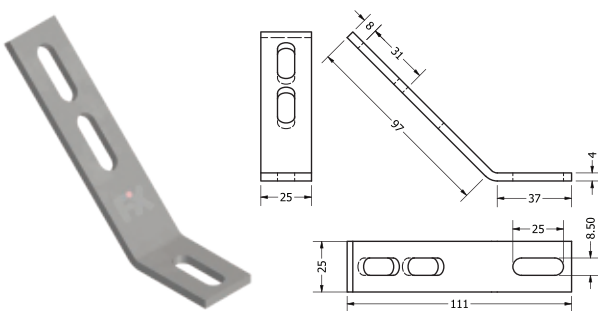
### FXC Mounting Angle 135° (2+2) - 27|18, 28|30



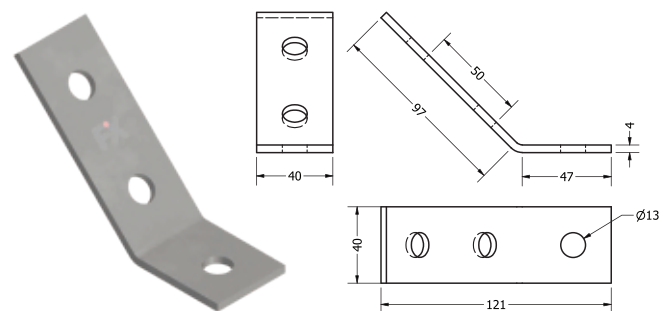
### FXC Mounting Angle 135° (2+2) - 38|24, 38|40, 40|60



### FXC Mounting Angle 135° (2 + 1) - 27|18, 28|30



### FXC Mounting Angle 135° (2 + 1) - 38|24, 38|40, 40|60



### Select Variant

Article No.		Product Description	FXC Mounting Channel	Angle	Width (mm)	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)					
337220	337221	FXC Mounting Angle 135° (2 + 2) - 27 18, 28 30	27 18, 28 30	135°	25	50
337120	337121	FXC Mounting Angle 135° (2 + 2) - 38 24, 38 40, 40 60	38 24, 38 40, 40 60	135°	40	25
337240	337241	FXC Mounting Angle 135° (2 + 1) - 27 18, 28 30	27 18, 28 30	135°	25	50
337140	337141	FXC Mounting Angle 135° (2 + 1) - 38 24, 38 40, 40 60	38 24, 38 40, 40 60	135°	40	25

\*Available on request

# FXC Mounting Angle 90 ( Internal)

## Connectors

Connection element for 90° internal connections of FXC Mounting Channels

### Material specifications

<b>Material</b>	S235 JR or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

### Applications

- Building frame structures using FXC Mounting Channels
- Structural connection of FXC Mounting Channels
- Suitable for cable tray and ducting
- Connecting FXC Mounting Channels internally at right angles

### Features & Benefits

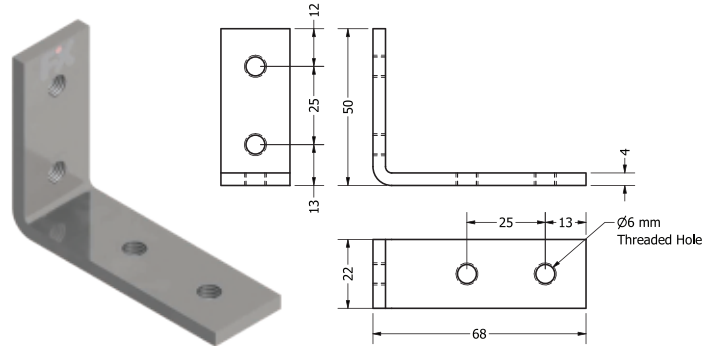
- Cost saving due to lower usage of FXC Mounting Channels
- Quick and efficient connections of multiple support structures
- Creation of rigid structures without welding
- High load bearing capacity owing to special material properties and design.

### Select Variant

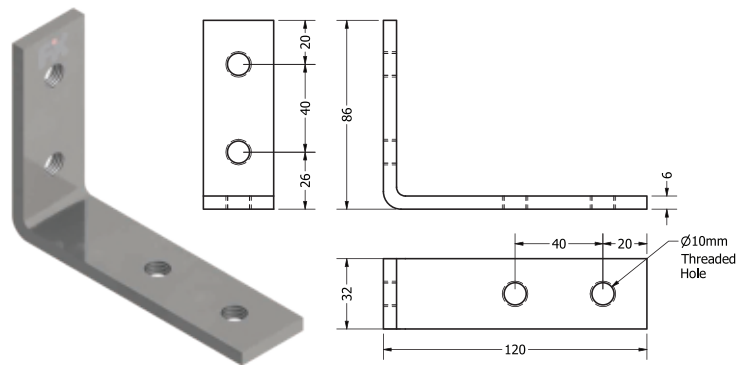
Article No.		Product Description	FXC Mounting Channel	Angle	Width (mm)	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)					
337215	337216	FXC Mounting Angle 90 Internal (2+2) - 27   18, 28   30	27   18, 28   30	90°	22	50
337115	337116	FXC Mounting Angle 90 Internal (2+2) - 38   24, 38   40, 40   60	38   24, 38   40, 40   60	90°	32	25

\*Available on request

### FXC Mounting Angle 90 Internal (2+2) - 27|18, 28|30



### FXC Mounting Angle 90 Internal (2+2) - 38|24, 38|40, 40|60



# FXC Saddle Flange

## Connectors

Supporting flange for FXC Mounting Channels

### Material specifications

<b>Material</b>	<b>Base Plate:</b> S235 JR or equivalent steel <b>Flange Profile:</b> DD11 or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

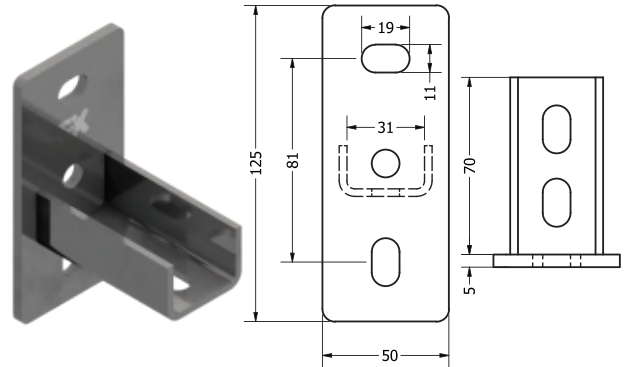
### Applications

- Structural connection of FXC Mounting Channels with any supporting material
- Allows for individual creation of cantilever arms

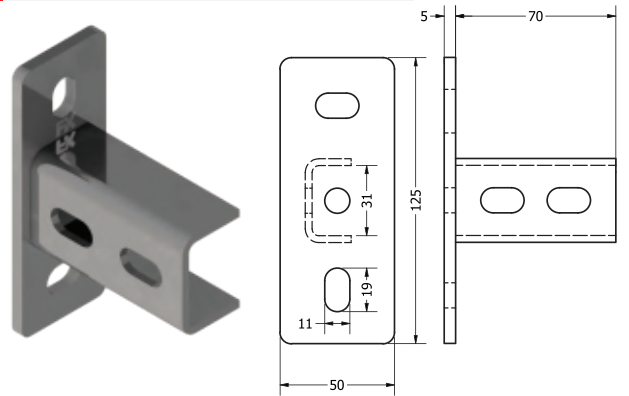
### Features & Benefits

- Provides higher torsional and bending rigidity for FXC Mounting Channels
- Simple installation by inserting the FXC mounting channel in the saddle
- Allows lateral and vertical adjustment of FXC Mounting Channel with reliable fastening
- High load bearing capacity owing to special material properties and design.

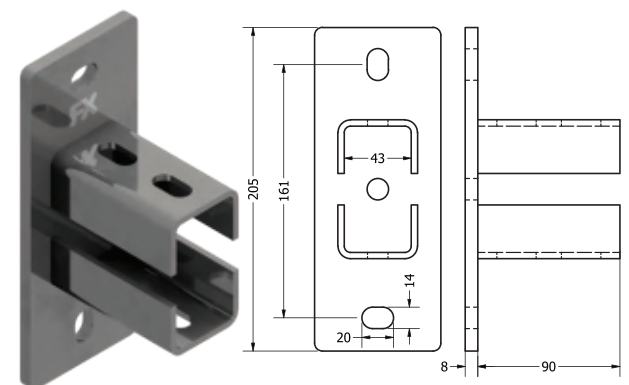
### FXC Saddle Flange - Lengthwise



### FXC Saddle Flange - Crosswise



### FXC Saddle Flange - Lengthwise Heavy



### Select Variant

Article No.		Product Description	FXC Mounting Channel	Angle	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)				
337000	337001	FXC Saddle Flange - Lengthwise - 27   18, 28   30	27   18, 28   30	Lengthwise	20
337010	337011	FXC Saddle Flange - Lengthwise - 38   24-40   80	38   24-40   80	Lengthwise	20
337020	337021	FXC Saddle Flange - Crosswise - 27   18, 28   30	27   18, 28   30	Crosswise	20
337030	337031	FXC Saddle Flange - Crosswise - 38   24-40   80	38   24-40   80	Crosswise	20
337040	337041	FXC Saddle Flange - Lengthwise 38   24-40   80	38   80, 40   80	Lengthwise	5

\*Available on request

# FXC Variable Saddle Flange

## Connectors

Variable supporting flange for FXC Mounting Channels

### Material specifications

<b>Material</b>	<b>Base Plate:</b> S235 JR or equivalent steel <b>Flange Profile:</b> DD11 or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

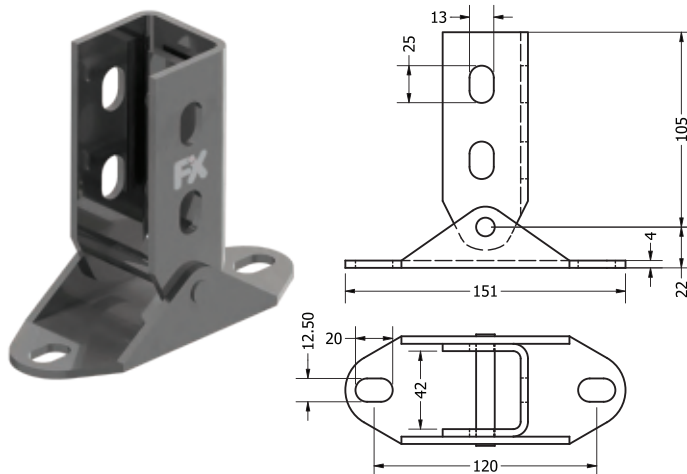
### Applications

- Ideal for bracing installation for FXC Mounting Channel structures and seismic support installations
- Structural connection of FXC Mounting Channels with any supporting material
- Suitable for inclined roof/ceilings in PEB and RCC structures

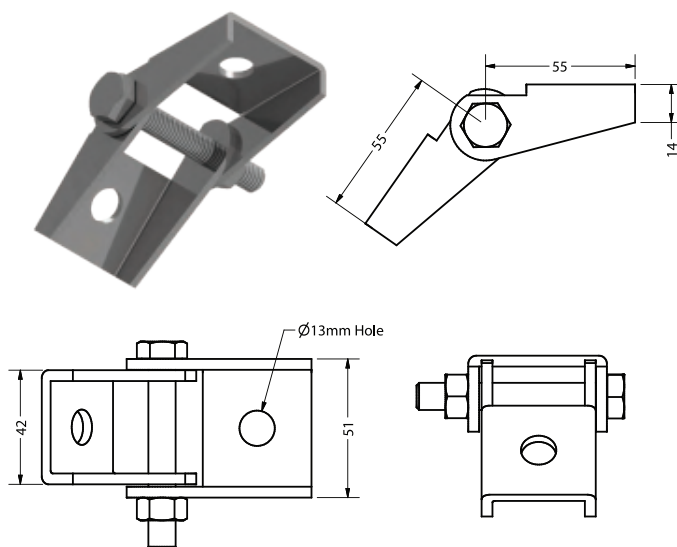
### Features & Benefits

- Increased flexibility during installation
- Ease of installation with less components
- Pre-assembled for rapid installation.

### FXC Variable Saddle Flange (2+2)



### FXC Variable Saddle Flange (1+1)



### Select Variant

Article No.		Product Description	FXC Mounting Channel	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)			
337810	337811	FXC Variable Saddle Flange (2+2) - 38 24, 38 40, 40 60	38   24, 38   40, 40   60	10
337820	337821	FXC Variable Saddle Flange (1+1) - 38 24, 38 40, 40 60	38   24, 38   40, 40   60	20

\*Available on request



# FXC Longitudinal Connector

## Connectors

Connection element for longitudinal alignment of FXC Mounting Channels

### Material specifications

<b>Material</b>	DD11 or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

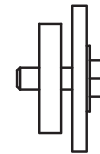
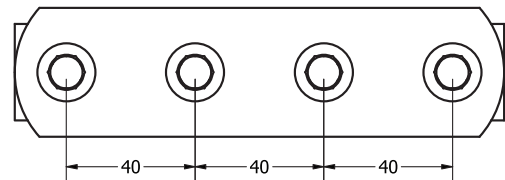


### Applications

- Longitudinal connections of FXC Mounting Channels
- Maintaining continuity of FXC Mounting Channels for Large spans (e.g., In Pre-Engineered building structures)

### Features & Benefits

- Easy to install with less components
- Ensures longitudinal alignment of FXC Mounting Channels
- Four through bolts ensures safer connections



### Select Variant

Article No.		Product Description	FXC Mounting Channel	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)			
337700	337701	FXC Longitudinal Connector - 27 18, 28 30	27   18, 28   30	50
337705	337706	FXC Longitudinal Connector - 38 24, 38 40, 40 60	38   24, 38   40, 40   60	25

\*Available on request

# FXC Lateral Angle Connector

## Connectors

Fixing element for lateral connection of FXC Mounting Channels

### Material specifications

<b>Material</b>	DD11 or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

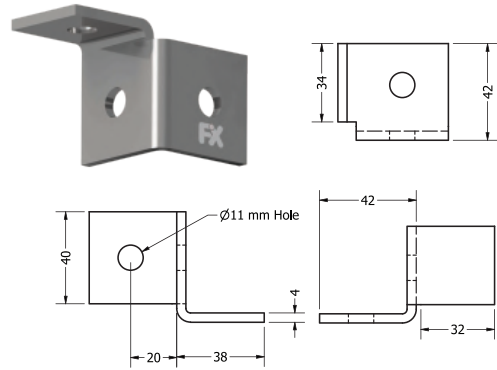
### Applications

- Building 2-Dimensional and 3-Dimensional frame structures using FXC Mounting Channels
- Structural connection of FXC Mounting Channels

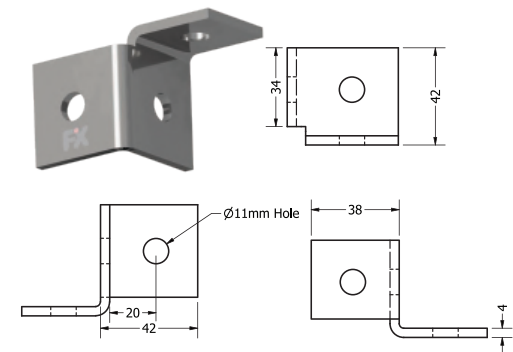
### Features & Benefits

- Easy to install with less components
- Quick and efficient connections of multiple support structures
- Creation of rigid structures without welding
- High load bearing capacity owing to special material properties and design.

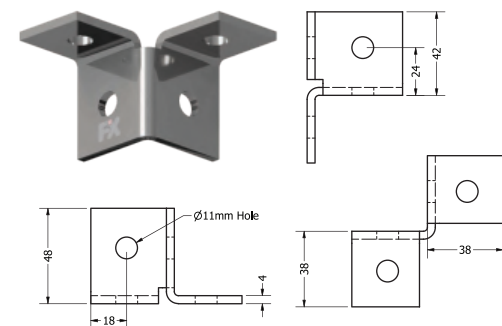
### FXC Lateral Angle Connector (1+1) - Left



### FXC Lateral Angle Connector (1+1) - Right



### FXC Lateral Angle Connector (1+1) - Double sided



### Select Variant

Article No.		Product Description	FXC Mounting Channel	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)			
337400	337401	FX Lateral Angle Connector (1+1) - Left	38   24-40   120	25
337405	337406	FX Lateral Angle Connector (1+1) - Right	38   24-40   120	25
337410	337411	FX Lateral Angle Connector (1+1) - Double sided	38   24-40   120	25

\*Available on request

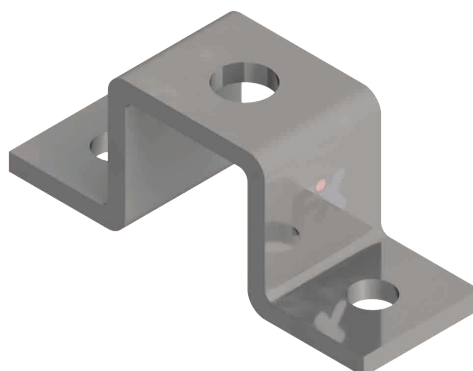
# FXC Cross Connector

## Connectors

Fixing element for cross connections of FXC Mounting Channels

### Material specifications

<b>Material</b>	DD11 or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

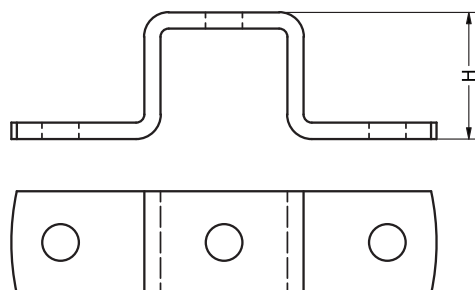


### Applications

- Cross connection of FXC Mounting Channels
- Connecting element for planar grid structures

### Features & Benefits

- Easy to install with less components
- Ensures rotation-free FXC Mounting Channel structural connections
- Quick and efficient attachment of multiple support structure



### Select Variant

Article No.		Product Description	FXC Mounting Channel	Height (H) (mm)	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)				
337600	337601	FXC Cross Connector, 28 30	28 30	31	25
337610	337611	FXC Cross Connector, 38 24	38 24	41	25
337620	337621	FXC Cross Connector, 38 40	38 40	49	25
337630	337631	FXC Cross Connector, 40 60	40 60	62	25
337650	337651	FXC Cross Connector, 38 80, 40 80	38 80, 40 80	82	25
337640	337641	FXC Cross Connector, 40 120	40 120	122	25

\*Available on request

# FXC Girder Cleat

## Accessories

Connection element for attachment of FXC Mounting Channels to steel girders without welding or drilling

### Material specifications

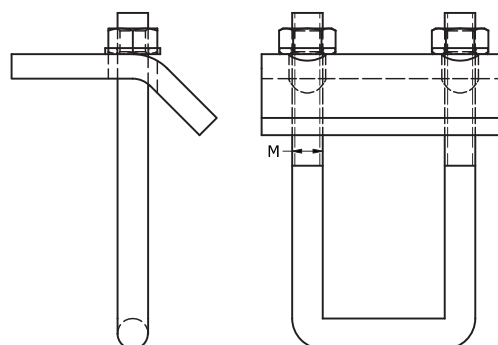
<b>Material</b>	S235 JR or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

### Applications

- Connection of FXC Mounting Channels to steel girders without welding or drilling

### Features & Benefits

- Easy to install, Pre-assembled Kit
- Enables secured transfer of loads from FXC Mounting Channel to steel girders
- Allows adjustment of FXC Mounting Channel along and across the supporting beam
- Suitable for Flange thicknesses of common steel girder profiles



### Select Variant

Article No.		Product Description	FXC Mounting Channel	M	Max. Recommended Load [N]	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)					
368000	368001	FXC Girder Cleat M6 - 27 18, 28 30	27   18, 28   30	M6	-	25
368010	368011	FXC Girder Cleat M8 - 38 24, 38 40	38   24, 38   40	M8	2500	25
368020	368021	FXC Girder Cleat M8 - 40 60	40   60	M8	3500	25
368030	368031	FXC Girder Cleat M10 - 38 40, 40 60	38   40	M10	3000	25
368040	368041	FXC Girder Cleat M10 - 38 80, 40 80	38   80, 40   80	M10	3000	25
368050	368051	FXC Girder Cleat M10 - 40 120	40   120	M10	4000	25

\*Available on request

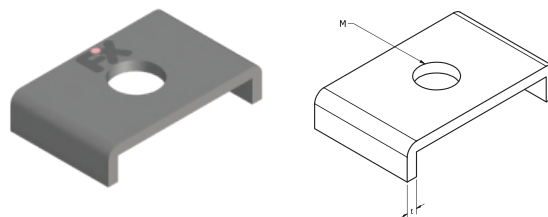
## FXC Retaining Clamp

### Accessories

Retaining Clamp for FXC Mounting Channels

#### Material specifications

<b>Material</b>	DD11 or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*



#### Applications

- Fastening metric threaded parts to FXC Mounting Channels
- Ideal for FXC mounting channel assembly for cable tray and piping installations.

#### Features & Benefits

- Enables safe load transfer to FXC Mounting Channels
- U shaped design prevents expansion of the FXC Mounting Channels profiles
- Heavy-duty version available for transferring large forces

#### Select Variant

Article No.		Product Description	For Thread	t (mm)	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)				
337506	337507	FXC Retaining Clamp M8 - 27 18, 28 30	M8	3	100
337512	337513	FXC Retaining Clamp M10 - 27 18, 28 30	M10	3	100
337530	337531	FXC Retaining Clamp M8 - 38 24, 38 40	M8	3	100
337536	337537	FXC Retaining Clamp M10 - 38 24, 38 40	M10	3	100
337542	337543	FXC Retaining Clamp M12 - 38 24, 38 40	M12	3	100
337548	337549	FXC Retaining Clamp M16 - 38 24, 38 40	M16	5	25

\*Available on request

## FXC Protection Cap

### Accessories

Protection cap for open ends of the FXC Mounting Channels

#### Material specifications

<b>Material</b>	Polyethylene
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#### Applications

- Covering the open ends of FXC Mounting Channels

#### Features & Benefits

- Provides protection from edge damage and corrosion
- Better aesthetic appearance of FXC mounting channel installation.

#### Select Variant

Article No.	Product Description	FXC Mounting Channel	Pack Size (Nos)
340000	FXC Protection Cap 27 18	27 18	100
340010	FXC Protection Cap 28 30	28 30	100
340020	FXC Protection Cap 38 24, 38 48	38 24, 38 48	100
340030	FXC Protection Cap 38 40, 38 80	38 40, 38 80	50
340040	FXC Protection Cap 40 60, 40 120	40 60, 40 120	25
340050	FXC Protection Cap 40 80	40 80	25

## Accessories

Connection element for mounting of hex bolt / threaded rod with FXC Mounting Channels

### Material specifications

<b>Material</b>	S235 JR or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized, Powder Coating*, Zinc Magnesium*



### Applications

- Fastening accessories in the FXC Mounting Channels and FXC Cantilever Bracket
- Fastening metric threaded parts to FXC Mounting Channels

### Features & Benefits

- Enables secure fixing and high load bearing capacity with FXC Mounting Channels
- Enables safe load transfer to FXC Mounting Channels

### Select Variant

Article No.		Product Description	Diameter	Size (mm)	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)				
341000	341001	FXC Rail Nut M6 - 27 18, 28 30	M6	22x14x5	100
341010	341011	FXC Rail Nut M8 - 27 18, 28 30	M8	22x14x5	100
341020	341021	FXC Rail Nut M6 - 38 24, 38 40, 40 60	M6	33x23x6	100
341030	341031	FXC Rail Nut M8 - 38 24, 38 40, 40 60	M8	33x23x6	100
341040	341041	FXC Rail Nut M10 - 38 24, 38 40, 40 60	M10	33x23x8	100
341050	341051	FXC Rail Nut M12 - 38 24, 38 40, 40 60	M12	33x23x8	100
341060	341061	FXC Rail Nut M16 - 38 24, 38 40, 40 60	M16	33x33x8	25

\*Available on request

# FXC Hammer Head Fastener



## Accessories

Connection element for mounting of pipe clamps to FXC Mounting Channels

### Material specifications

<b>Material</b>	S235 JR or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*



### Applications

- Mounting of pipe clamps to the FXR Mounting Channels

### Features & Benefits

- Enables safe load transfer to FXC Mounting Channels
- Various lengths and thread diameters can be combined within the same mounting channel
- Lateral adjustment at any moment enables proper alignment of the pipeline.

### Select Variant

Article No.		Product Description	FXC Mounting Channel	M	L (mm)	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)					
343000	343001	FXC Hammer Head Fastener, M8 x 20 - 27 18-28 30	27 18-28 30	M8	20	100
343005	343006	FXC Hammer Head Fastener, M8 x 30 - 27 18-28 30	27 18-28 30	M8	30	100
343010	343011	FXC Hammer Head Fastener, M8 x 40 - 27 18-28 30	27 18-28 30	M8	40	100
343015	343016	FXC Hammer Head Fastener, M8 x 50 - 27 18-28 30	27 18-28 30	M8	50	100
343020	343021	FXC Hammer Head Fastener, M8 x 60 - 27 18-28 30	27 18-28 30	M8	60	100
343025	343026	FXC Hammer Head Fastener, M8 x 70 - 27 18-28 30	27 18-28 30	M8	70	100
343030	343031	FXC Hammer Head Fastener, M8 x 80 - 27 18-28 30	27 18-28 30	M8	80	100
343035	343036	FXC Hammer Head Fastener, M8 x 90 - 27 18-28 30	27 18-28 30	M8	90	100
343040	343041	FXC Hammer Head Fastener, M8 x 100 - 27 18-28 30	27 18-28 30	M8	100	100
343045	343046	FXC Hammer Head Fastener, M8 x 120 - 27 18-28 30	27 18-28 30	M8	120	100
343050	343051	FXC Hammer Head Fastener, M8 x 140 - 27 18-28 30	27 18-28 30	M8	140	100
343055	343056	FXC Hammer Head Fastener, M8 x 160 - 27 18-28 30	27 18-28 30	M8	160	100
343060	343061	FXC Hammer Head Fastener, M8 x 180 - 27 18-28 30	27 18-28 30	M8	180	100
343065	343066	FXC Hammer Head Fastener, M10 x 35 - 27 18-28 30	27 18-28 30	M10	35	100
343070	343071	FXC Hammer Head Fastener, M8 x 25 - 38 24-40 120	38 24-40 120	M8	25	50
343075	343076	FXC Hammer Head Fastener, M8 x 35 - 38 24-40 120	38 24-40 120	M8	35	50
343080	343081	FXC Hammer Head Fastener, M8 x 40 - 38 24-40 120	38 24-40 120	M8	40	50
343085	343086	FXC Hammer Head Fastener, M8 x 50 - 38 24-40 120	38 24-40 120	M8	50	50
343090	343091	FXC Hammer Head Fastener, M8 x 80 - 38 24-40 120	38 24-40 120	M8	80	50
343095	343096	FXC Hammer Head Fastener, M8 x 100 - 38 24-40 120	38 24-40 120	M8	100	50
343100	343101	FXC Hammer Head Fastener, M8 x 120 - 38 24-40 120	38 24-40 120	M8	120	50
343105	343106	FXC Hammer Head Fastener, M8 x 140 - 38 24-40 120	38 24-40 120	M8	140	50
343110	343111	FXC Hammer Head Fastener, M8 x 160 - 38 24-40 120	38 24-40 120	M8	160	50
343115	343116	FXC Hammer Head Fastener, M8 x 180 - 38 24-40 120	38 24-40 120	M8	180	50
343120	343121	FXC Hammer Head Fastener, M10 x 35 - 38 24-40 120	38 24-40 120	M10	35	50
343125	343126	FXC Hammer Head Fastener, M10 x 55 - 38 24-40 120	38 24-40 120	M10	55	50
343130	343131	FXC Hammer Head Fastener, M10 x 80 - 38 24-40 120	38 24-40 120	M10	80	50
343135	343136	FXC Hammer Head Fastener, M10 x 100 - 38 24-40 120	38 24-40 120	M10	100	50
343140	343141	FXC Hammer Head Fastener, M10 x 120 - 38 24-40 120	38 24-40 120	M10	120	50
343145	343146	FXC Hammer Head Fastener, M10 x 140 - 38 24-40 120	38 24-40 120	M10	140	50
343150	343151	FXC Hammer Head Fastener, M10 x 160 - 38 24-40 120	38 24-40 120	M10	160	50
343155	343156	FXC Hammer Head Fastener, M10 x 180 - 38 24-40 120	38 24-40 120	M10	180	50
343160	343161	FXC Hammer Head Fastener, M12 x 35 - 38 24-40 120	38 24-40 120	M12	35	50

\*Available on request

# FXR MOUNTING RAILS



FXR  
41121

| 33-34



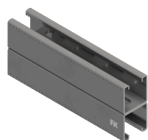
FXR  
41141

| 35-36



FXR  
41162

| 37-38



FXR  
41182

| 39-40



FXR  
60170

| 41-42



**Mounting Rails**

Universal slotted mounting rail profile

Material specifications	
<b>Material</b>	DX51D or Equivalent steel DD11 or Equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

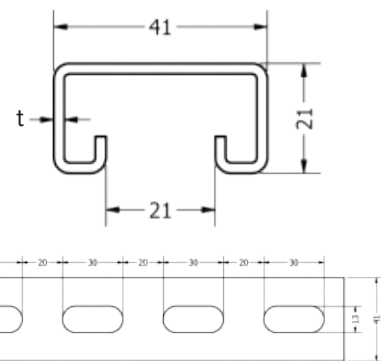


**Applications**

- Installation of light to medium-duty ventilation ducts, plumbing & firefighting pipes and cable trays
- Secondary support structure for installation of different services.

**Features & Benefits**

- Wide range of mounting options in conjunction with our FXR mounting rail accessories.
- Quick and efficient attachment of multiple support structure.
- Lateral and vertical adjustment with reliable fastening.
- High load bearing capacity owing to special material properties and design.



**Select Variant**

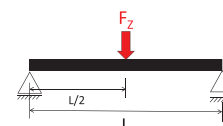
Article No.		Product Description	L (mm)	W (mm)	H (mm)	t (mm)
Galvanized (vz)	HDG (fvz)					
602090	602091	FXR Mounting Rail 41   21   1.5, 6 m	6000	41	21	1.5
602093	602094	FXR Mounting Rail 41   21   1.5, 3 m	3000	41	21	1.5
602096	602097	FXR Mounting Rail 41   21   1.5, 2 m	2000	41	21	1.5
602000	602001	FXR Mounting Rail 41   21   2.0, 6 m	6000	41	21	2.0
602003	602004	FXR Mounting Rail 41   21   2.0, 3 m	3000	41	21	2.0
602006	602007	FXR Mounting Rail 41   21   2.0, 2 m	2000	41	21	2.0
602110	602111	FXR Mounting Rail 41   21   2.5, 6 m	6000	41	21	2.5
602113	602114	FXR Mounting Rail 41   21   2.5, 3 m	3000	41	21	2.5
602116	602117	FXR Mounting Rail 41   21   2.5, 2 m	2000	41	21	2.5

\*Available on request

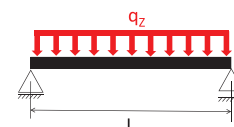
Technical Data:

	41 21 1.5	41 21 2.0	41 21 2.5
<b>Sectional Properties:</b>	<b>DX51D + Z275</b>		
Profile Section Area A (cm <sup>2</sup> )	1.59	2.06	2.67
Section Modulus Wz (cm <sup>3</sup> )	0.84	1.04	1.36
Section Modulus Wy (cm <sup>3</sup> )	1.84	2.25	2.87
Moment of inertia Iz (cm <sup>4</sup> )	1.00	1.23	1.65
Moment of inertia Iy (cm <sup>4</sup> )	3.78	4.61	6.04
Radius of gyration rz (cm)	0.79	0.77	0.79
Radius of gyration ry (cm)	1.54	1.50	1.50

Load bearing capacities of profiles for bending around the y-axis:



Rail Length (mm)	Max Design Load (N)	Deflection (mm)	Max Design Load (N)	Deflection (mm)	Max Design Load (N)	Deflection (mm)
6000						
5000						
4000						
3500						
3000						
2500						
2000			100	7.61	150	8.30
1500	170	6.05	210	6.08	290	6.23
1250	260	5.21	310	5.06	420	5.10
1000	410	4.14	500	4.11	680	4.16
750	720	3.04	890	3.05	1160	2.96
500	1080	1.34	1340	1.36	1760	1.33
300	1810	0.49	2240	0.49	2930	0.48
250	2170	0.34	2690	0.34	3520	0.33
200	2720	0.22	3370	0.22	4410	0.21
100	5450	0.05	6740	0.05	8820	0.05



Rail Length (mm)	Max Design Load (N)	Deflection (mm)	Max Design Load (N)	Deflection (mm)	Max Design Load (N)	Deflection (mm)
6000						
5000						
4000						
3500						
3000						
2500						
2000	140	8.09	170	8.02	240	8.30
1500	280	6.22	340	6.15	460	6.18
1250	410	5.14	500	5.10	680	5.16
1000	660	4.16	810	4.16	1090	4.16
750	1180	3.11	1450	3.11	1950	3.11
500	2170	1.69	2690	1.70	3520	1.66
300	3630	0.61	4490	0.61	5870	0.60
250	4350	0.42	5390	0.42	7050	0.41
200	5450	0.27	6740	0.27	8820	0.27
100	10900	0.07	13490	0.07	17640	0.07

Note:

- The determined loads apply for static loads. Calculation based on Eurocode (EC3).
- The safety coefficient = 1.54 takes into account the partial and combination coefficients as well as the safety factor of the material.
- For the given values, the permissible steel stress and the maximum permissible deflection L/200 are not exceeded, taking the deadweight into consideration.

FXC Mounting Channels  
 FXC Mounting Channel Accessories  
 FXR Mounting Rails  
 FXR Mounting Rail Accessories  
 Pipe Clamps  
 Fixing & Fastening Systems  
 Ground Mounting Systems  
 FXT Heavy Rail Profiles  
 FXT Heavy Rail Profile Accessories

**Mounting Rails**

Universal slotted mounting rail profile

Material specifications	
<b>Material</b>	DX51D or Equivalent steel DD11 or Equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

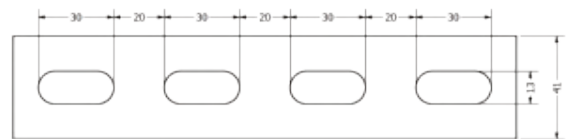
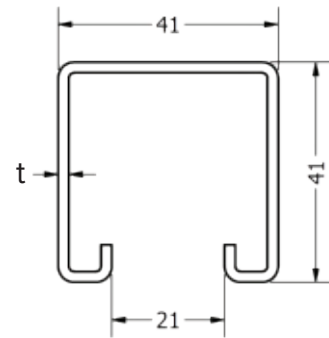


**Applications**

- Installation of light to medium-duty ventilation ducts, plumbing & firefighting pipes and cable trays
- Secondary support structure for installation of different services.

**Features & Benefits**

- Wide range of mounting options in conjunction with our FXR mounting rail accessories.
- Quick and efficient attachment of multiple support structure.
- Lateral and vertical adjustment with reliable fastening.
- High load bearing capacity owing to special material properties and design.




**Select Variant**

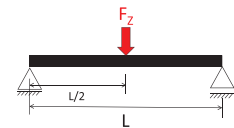
Article No.		Product Description	L (mm)	W (mm)	H (mm)	t (mm)
Galvanized (vz)	HDG (fvz)					
602030	602031	FXR Mounting Rail 41 41 1.5, 6 m	6000	41	41	1.5
602033	602034	FXR Mounting Rail 41 41 1.5, 3 m	3000	41	41	1.5
602036	602037	FXR Mounting Rail 41 41 1.5, 2 m	2000	41	41	1.5
602010	602011	FXR Mounting Rail 41 41 2.0, 6 m	6000	41	41	2.0
602013	602014	FXR Mounting Rail 41 41 2.0, 3 m	3000	41	41	2.0
602016	602017	FXR Mounting Rail 41 41 2.0, 2 m	2000	41	41	2.0
602020	602021	FXR Mounting Rail 41 41 2.5, 6 m	6000	41	41	2.5
602023	602024	FXR Mounting Rail 41 41 2.5, 3 m	3000	41	41	2.5
602026	602027	FXR Mounting Rail 41 41 2.5, 2 m	2000	41	41	2.5

\*Available on request

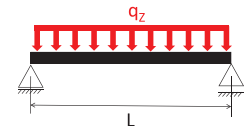
Technical Data:

	41 41 1.5	41 41 2.0	41 41 2.5
<b>Sectional Properties:</b>	<b>DX51D + Z275</b>		
Profile Section Area A (cm <sup>2</sup> )	2.19	2.86	3.59
Section Modulus Wz (cm <sup>3</sup> )	2.32	2.96	3.68
Section Modulus Wy (cm <sup>3</sup> )	2.98	3.74	4.62
Moment of inertia Iz (cm <sup>4</sup> )	5.13	6.52	8.16
Moment of inertia Iy (cm <sup>4</sup> )	6.12	7.66	9.58
Radius of gyration rz (cm)	2.32	1.51	1.51
Radius of gyration ry (cm)	2.98	1.64	1.63

Load bearing capacities of profiles for bending around the y-axis:



Rail Length (mm)	Max Design Load (N)	Deflection (mm)	Max Design Load (N)	Deflection (mm)	Max Design Load (N)	Deflection (mm)
6000						
5000						
4000			110	15.75	140	15.93
3500			170	14.04	220	14.42
3000			260	12.28	330	12.43
2500			400	10.28	500	10.27
2000	520	8.36	650	8.23	820	8.29
1500	940	6.23	1190	6.21	1490	6.21
1250	1190	4.54	1520	4.57	1890	4.54
1000	1500	2.92	1910	2.93	2370	2.90
750	2000	1.64	2550	1.64	3170	1.63
500	3000	0.73	3830	0.73	4760	0.72
300	5000	0.26	6390	0.26	7950	0.26
250	6000	0.18	7670	0.18	9540	0.18
200	7520	0.12	9600	0.12	11930	0.12
100	15050	0.03	19200	0.03	23860	0.03



Rail Length (mm)	Max Design Load (N)	Deflection (mm)	Max Design Load (N)	Deflection (mm)	Max Design Load (N)	Deflection (mm)
6000						
5000						
4000			190	16.60	230	16.22
3500			280	14.37	350	14.36
3000			420	12.38	530	12.47
2500			640	10.28	810	10.39
2000	830	8.34	1050	8.30	1310	8.28
1500	1500	6.22	1910	6.23	2390	6.23
1250	2180	5.19	2770	5.19	3470	5.20
1000	3000	3.65	3820	3.65	4740	3.62
750	4000	2.05	5100	2.05	6340	2.04
500	6010	0.91	7670	0.91	9530	0.91
300	10030	0.33	12790	0.33	15900	0.33
250	12040	0.23	15350	0.23	19090	0.23
200	15050	0.15	19200	0.15	23870	0.15
100	30100	0.04	38400	0.04	47740	0.04

Note:

- The determined loads apply for static loads. Calculation based on Eurocode (EC3).
- The safety coefficient = 1.54 takes into account the partial and combination coefficients as well as the safety factor of the material.
- For the given values, the permissible steel stress and the maximum permissible deflection L/200 are not exceeded, taking the deadweight into consideration.

**Mounting Rails**

Universal slotted mounting rail profile

Material specifications	
<b>Material</b>	DX51D or Equivalent steel DD11 or Equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

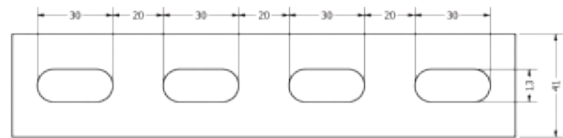
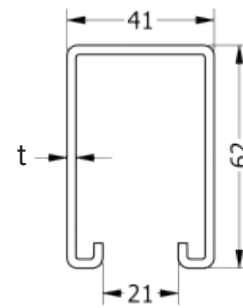


**Applications**

- Installation of medium to heavy-duty ventilation ducts, plumbing & firefighting pipes and cable trays
- Secondary support structure for installation of different services.

**Features & Benefits**

- Wide range of mounting options in conjunction with our FXR mounting rail accessories.
- Quick and efficient attachment of multiple support structure.
- Lateral and vertical adjustment with reliable fastening.
- High load bearing capacity owing to special material properties and design.



**Select Variant**

Article No.		Product Description	L (mm)	W (mm)	H (mm)	t (mm)
Galvanized (vz)	HDG (fvz)					
602100	602101	FXR Mounting Rail 41 62 2.0, 6 m	6000	41	62	2.0
602103	602104	FXR Mounting Rail 41 62 2.0, 3 m	3000	41	62	2.0
602106	602107	FXR Mounting Rail 41 62 2.0, 2 m	2000	41	62	2.0
602080	602081	FXR Mounting Rail 41 62 2.5, 6 m	6000	41	62	2.5
602083	602084	FXR Mounting Rail 41 62 2.5, 3 m	3000	41	62	2.5
602086	602087	FXR Mounting Rail 41 62 2.5, 2 m	2000	41	62	2.5

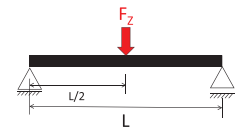
\*Available on request

**Technical Data:**



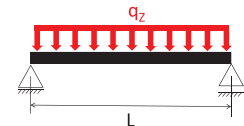
41|62|2.5

Sectional Properties:	DX51D + Z275
Profile Section Area A (cm <sup>2</sup> )	3.983
Section Modulus Wz (cm <sup>3</sup> )	6.307
Section Modulus Wy (cm <sup>3</sup> )	5.523
Moment of inertia Iz (cm <sup>4</sup> )	12.93
Moment of inertia Iy (cm <sup>4</sup> )	17.209
Radius of gyration rz (cm)	2.21
Radius of gyration ry (cm)	1.72



**Load bearing capacities of profiles for bending around the y-axis:**

Rail Length (mm)	Max Design Load (N)	Deflection (mm)
6000	126	30
5000	251	25
4000	465	20
3500	641	17.5
3000	906	15
2500	1309	12.22
2000	1653	7.8
1500	2221	4.38
1250	2671	3.03
1000	3343	1.94
750	4453	1.09
500	6,633	0.48
300	10781	0.17
250	12721	0.11
200	15434	0.07
100	25350	0.01



Rail Length (mm)	Max Design Load (N)	Deflection (mm)
6000	30	30
5000	80	25
4000	190	20
3500	290	17.5
3000	480	15
2500	860	12.5
2000	1650	9.67
1500	2960	5.42
1250	4270	3.75
1000	6650	2.39
750	11660	1.33
500	25460	0.57
300	64860	0.19
250	88390	0.12
200	126711	0.07
100	367360	0.01

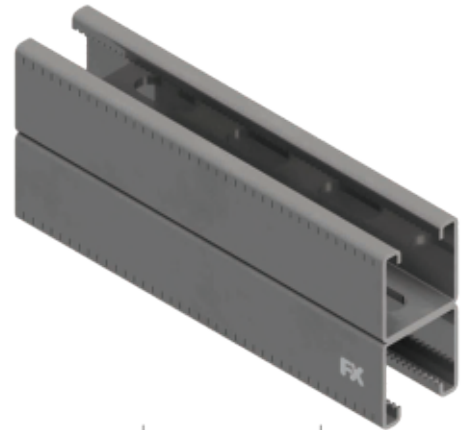
**Note:**

- The determined loads apply for static loads. Calculation based on Eurocode (EC3).
- The safety coefficient = 1.54 takes into account the partial and combination coefficients as well as the safety factor of the material.
- For the given values, the permissible steel stress and the maximum permissible deflection L/200 are not exceeded, taking the deadweight into consideration.

**Mounting Rails**

Universal slotted H-profile mounting rail

Material specifications	
<b>Material</b>	DX51D or Equivalent steel DD11 or Equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

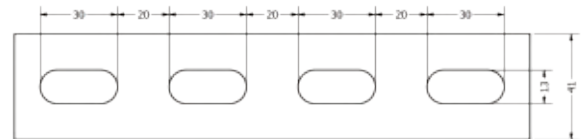
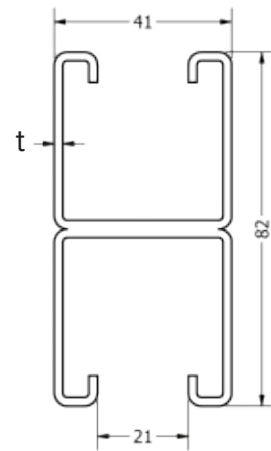


**Applications**

- Installation of medium to heavy-duty ventilation ducts, plumbing & firefighting pipes and cable trays
- Secondary support structure for installation of different services.

**Features & Benefits**

- Wide range of mounting options in conjunction with our FXR mounting rail accessories.
- Quick and efficient attachment of multiple support structure.
- Lateral and vertical adjustment with reliable fastening.
- High load bearing capacity owing to special material properties and design.




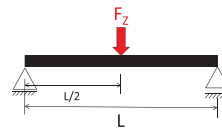
**Select Variant**

Article No.		Product Description	L (mm)	W (mm)	H (mm)	t (mm)
Galvanized (vz)	HDG (fvz)					
602040	602041	FXR Mounting Rail 41 82 2.0, 6 m	6000	41	82	2.0
602043	602044	FXR Mounting Rail 41 82 2.0, 3 m	3000	41	82	2.0
602046	602047	FXR Mounting Rail 41 82 2.0, 2 m	2000	41	82	2.0
602070	602071	FXR Mounting Rail 41 82 2.5, 6 m	6000	41	82	2.5
602073	602074	FXR Mounting Rail 41 82 2.5, 3 m	3000	41	82	2.5
602076	602077	FXR Mounting Rail 41 82 2.5, 2 m	2000	41	82	2.5

\*Available on request

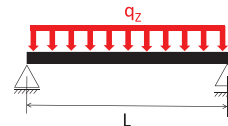
Technical Data:

	4118212.0	4118212.5
		
<b>Sectional Properties:</b>	<b>DX51D + Z275</b>	
Profile Section Area A (cm <sup>2</sup> )	5.74	6.28
Section Modulus Wz (cm <sup>3</sup> )	8.27	9.42
Section Modulus Wy (cm <sup>3</sup> )	7.49	9.01
Moment of inertia Iz (cm <sup>4</sup> )	33.9	38.62
Moment of inertia Iy (cm <sup>4</sup> )	15.36	18.48
Radius of gyration rz (cm)	2.43	2.48
Radius of gyration ry (cm)	1.64	1.71



Load bearing capacities of profiles for bending around the y-axis:

Rail Length (mm)	Max Design Load (N)	Deflection (mm)	Max Design Load (N)	Deflection (mm)
6000	240	24.98	250	24.65
5000	430	20.46	480	20.61
4000	780	16.55	880	16.60
3500	1070	14.56	1210	14.57
3000	1500	12.47	1700	12.46
2500	2090	9.85	2370	9.84
2000	2640	6.30	3000	6.30
1500	3540	3.53	4030	3.54
1250	4260	2.45	4850	2.45
1000	5340	1.57	6080	1.57
750	7130	0.88	8120	0.88
500	10720	0.39	12200	0.39
300	17870	0.14		
250	21450	0.10		
200	26820	0.06		
100	53650	0.02		



Rail Length (mm)	Max Design Load (N)	Deflection (mm)	Max Design Load (N)	Deflection (mm)
6000	380	24.83	400	24.65
5000	700	20.74	770	20.65
4000	1250	16.57	1410	16.62
3500	1710	14.55	1930	14.53
3000	2400	12.47	2720	12.46
2500	3540	10.41	4020	10.41
2000	5280	7.85	6000	7.84
1500	7090	4.41	8070	4.41
1250	8530	3.07	9710	3.07
1000	10680	1.96	12170	1.96
750	14270	1.10	16250	1.10
500	21430	0.49	24420	0.49
300	35750	0.18		
250	42900	0.12		
200	53640	0.08		
100	107300	0.02		

Note:

- The determined loads apply for static loads. Calculation based on Eurocode (EC3).
- The safety coefficient = 1.54 takes into account the partial and combination coefficients as well as the safety factor of the material.
- For the given values, the permissible steel stress and the maximum permissible deflection L/200 are not exceeded, taking the deadweight into consideration.



**Mounting Rails**

Special Slotted Mounting Rail Profile for heavy loads

Material specifications	
<b>Material</b>	DX51D or Equivalent steel DD11 or Equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

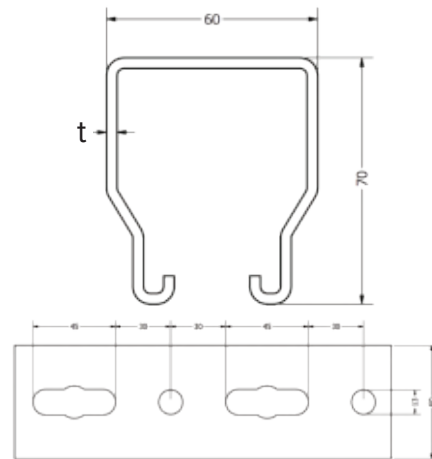


**Applications**

- Installation of medium to heavy-duty ventilation ducts, plumbing & firefighting pipes and cable trays
- Secondary support structure for installation of different services.

**Features & Benefits**

- Wide range of mounting options in conjunction with our FXR mounting rail accessories.
- Quick and efficient attachment of multiple support structure.
- Lateral and vertical adjustment with reliable fastening.
- High load bearing capacity owing to special material properties and design.



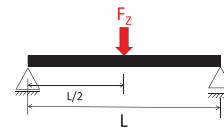
**Select Variant**

Article No.		Product Description	L (mm)	W (mm)	H (mm)	t (mm)
Galvanized (vz)	HDG (fvz)					
602060	602061	FXR Mounting Rail 60 70 3.0, 6 m	6000	60	70	3.0
602063	602064	FXR Mounting Rail 60 70 3.0, 3 m	3000	60	70	3.0
602066	602067	FXR Mounting Rail 60 70 3.0, 2 m	2000	60	70	3.0

\*Available on request

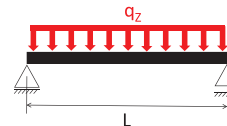
**Technical Data:**

	<b>60/70/3</b>
<b>Sectional Properties:</b>	<b>DX51D + Z275</b>
Profile Section Area A (cm <sup>2</sup> )	6.72
Section Modulus Wz (cm <sup>3</sup> )	13.18
Section Modulus Wy (cm <sup>3</sup> )	11.29
Moment of inertia Iz (cm <sup>4</sup> )	41.62
Moment of inertia Iy (cm <sup>4</sup> )	34.04
Radius of gyration rz (cm)	2.49
Radius of gyration ry (cm)	2.25



**Load bearing capacities of profiles for bending around the y-axis:**

Rail Length (mm)	Max Design Load (N)	Deflection (mm)
6000	300	24.85
5000	540	20.62
4000	970	16.65
3500	1320	14.58
3000	1850	12.49
2500	2720	10.41
2000	4220	8.16
1500	5660	4.59
1250	6810	3.19
1000	8520	2.04
750	11380	1.15
500	17100	0.51
300		
250		
200		
100		



Rail Length (mm)	Max Design Load (N)	Deflection (mm)
6000	480	24.85
5000	870	20.74
4000	1550	16.64
3500	2100	14.50
3000	2960	12.49
2500	4350	10.41
2000	6880	8.32
1500	11320	5.73
1250	13620	3.98
1000	17050	2.55
750	22780	1.43
500	34200	0.64
300		
250		
200		
100		

**Note:**

- The determined loads apply for static loads. Calculation based on Eurocode (EC3).
- The safety coefficient = 1.54 takes into account the partial and combination coefficients as well as the safety factor of the material.
- For the given values, the permissible steel stress and the maximum permissible deflection L/200 are not exceeded, taking the deadweight into consideration.

# FXR MOUNTING RAIL ACCESSORIES

FXC Mounting Channels

FXR Mounting Channel Accessories

FXR Mounting Rails

FXR Mounting Rail Accessories

Pipe Clamps

Fixing & Fastening Systems

Ground Mounting Systems

FXT Heavy Rail Profiles

FXT Heavy Rail Profile Accessories

## Brackets




FXR Angle Bracket

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FXR Cantilever Bracket

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FXC Bracket Support

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## Connectors




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FXR Mounting Angle 135

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FXR Mounting Angle 90 (Internal)

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FXR Flat Connector

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FXR Saddle Flange

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FXR Variable Saddle Flange

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FXR Longitudinal Connector

| 53




FXR Lateral Angle Connector (1+1)

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FXR Lateral Angle Connector (2+2)

| 55



FXR Cross Connector

| 56



FXR Girder Cleat


| 57

## Accessories



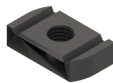
FXR Retaining Clamp

| 58



FXR Protection Cap

| 58



FXR Rail Nut

| 59



FXR Hammer Head Fastener

| 60

# FXR Angle Bracket

## Brackets

Supporting bracket for FXR mounting Rails

### Material specifications

<b>Material</b>	S235 JR or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

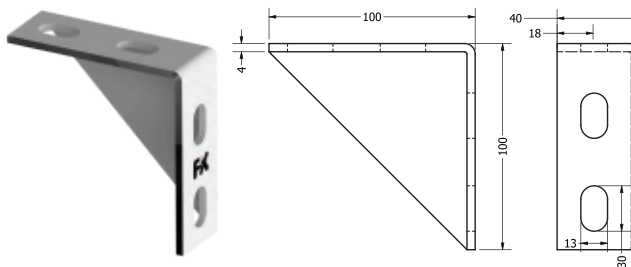
### Applications

- Building frame structures using FXR Mounting Rails
- Structural connection of FXR mounting rails with any supporting material

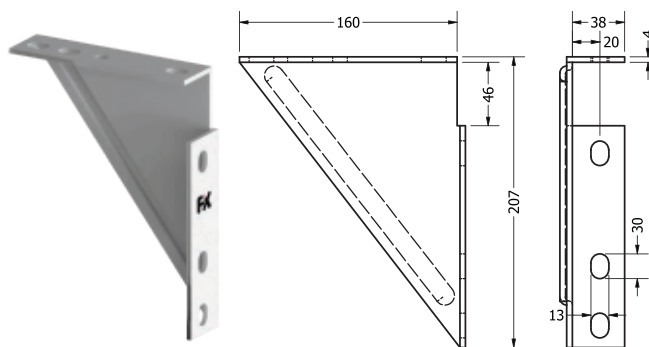
### Features & Benefits

- Easy to install with less components
- Strengthening of FXR Mounting Rail connections
- For increased strength requirements, it is possible to bolt angle brackets together.

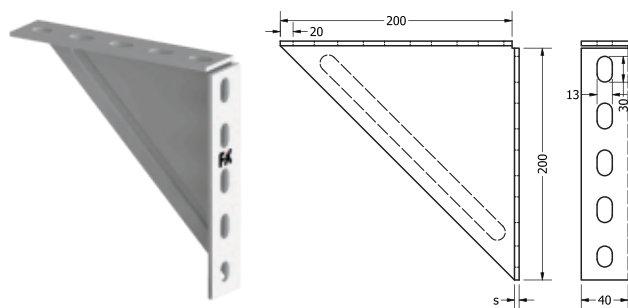
### FXR Angle Bracket 100 X 100



### FXR Angle Bracket 207 X 165



### FXR Angle Bracket 200 X 200



### Select Variant

Article No.		Product Description	Size (mm)	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)			
637130	637131	FXR Angle Bracket 100 x 100 x 4	100 X 100	10
637140	637141	FXR Angle Bracket 207 x 165 x 4	207 X 165	10
637150	637151	FXR Angle Bracket 200 x 200 x 4	200 X 200	10
637170	637171	FXR Angle Bracket 200 x 200 x 6	200 X 200	5

\*Available on request

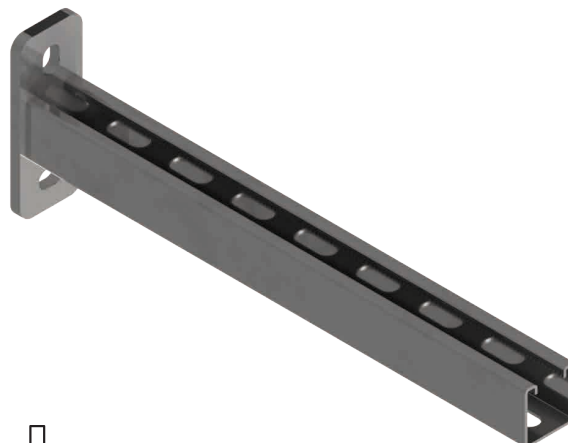
# FXR Cantilever Bracket

## Brackets

Pre Fabricated Cantilever Bracket

### Material specifications

<b>Material</b>	<b>Base Plate</b> : S235 JR or equivalent steel <b>Mounting Rail</b> : DD11 or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

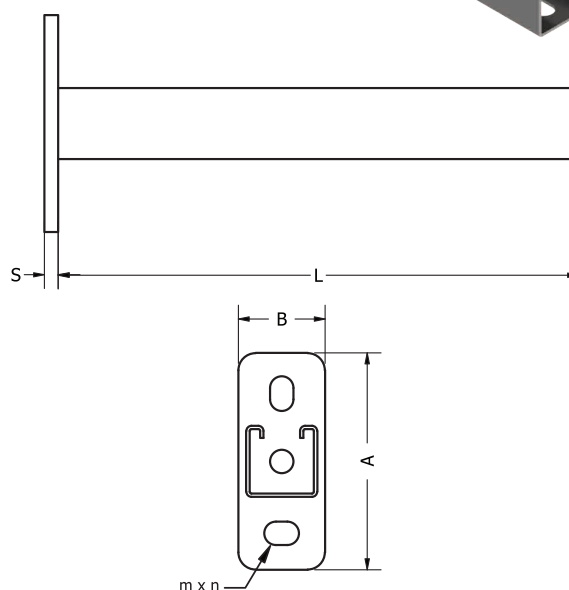


### Applications

- Fastening light to medium-duty ventilation ducts, plumbing & firefighting pipes and cable trays as a cantilever support structure
- Supporting structures for suspended services
- Suitable for Trench and Tunnel application.

### Features & Benefits

- Easy to install with less components
- Available in variable lengths (Upto 1.040 m) for supporting different services installations
- Serrated profiles ensures secured connections with the FXR Rail nut



### Select Variant

Article No.		Product Description	FXR Mounting Rail	Length (L) (mm)	AxBxs (mm)	m x n (mm)	**Max. Recommended Load (N)	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)							
633000	633001	FXR Cantilever Bracket 41   21   2, 160 mm	41   21	160	125 x 50 x 6	13.5 x 20	1399	10
633010	633011	FXR Cantilever Bracket 41   21   2, 240 mm	41   21	240	125 x 50 x 6	13.5 x 20	931	10
633020	633021	FXR Cantilever Bracket 41   21   2, 320 mm	41   21	320	125 x 50 x 6	13.5 x 20	696	10
633030	633031	FXR Cantilever Bracket 41   21   2, 400 mm	41   21	400	125 x 50 x 6	13.5 x 20	555	5
633040	633041	FXR Cantilever Bracket 41   41   2, 160 mm	41   41	160	125 x 50 x 8	13.5 x 20	3435	10
633050	633051	FXR Cantilever Bracket 41   41   2, 240 mm	41   41	240	125 x 50 x 8	13.5 x 20	2287	10
633060	633061	FXR Cantilever Bracket 41   41   2, 320 mm	41   41	320	125 x 50 x 8	13.5 x 20	1712	10
633070	633071	FXR Cantilever Bracket 41   41   2, 400 mm	41   41	400	125 x 50 x 8	13.5 x 20	1367	5
633080	633081	FXR Cantilever Bracket 41   41   2, 480 mm	41   41	480	125 x 50 x 8	13.5 x 20	1136	5
633090	633091	FXR Cantilever Bracket 41   41   2, 560 mm	41   41	560	125 x 50 x 8	13.5 x 20	971	2
633100	633101	FXR Cantilever Bracket 41   41   2, 640 mm	41   41	640	125 x 50 x 8	13.5 x 20	846	2
633110	633111	FXR Cantilever Bracket 41   41   2, 720 mm	41   41	720	125 x 50 x 8	13.5 x 20	749	2
633120	633121	FXR Cantilever Bracket 41   41   2, 800 mm	41   41	800	125 x 50 x 8	13.5 x 20	671	1
633130	633131	FXR Cantilever Bracket 41   41   2, 1,040 mm	41   41	1040	125 x 50 x 8	13.5 x 20	508	1

\*Available on request

\*\* Loads are at the centre of the channel.

\*\*\* Also available in 2.5 mm thickness upon request

# FXR Bracket Support

## Brackets

Pre Fabricated Bracket to support cantilever Loads

### Material specifications

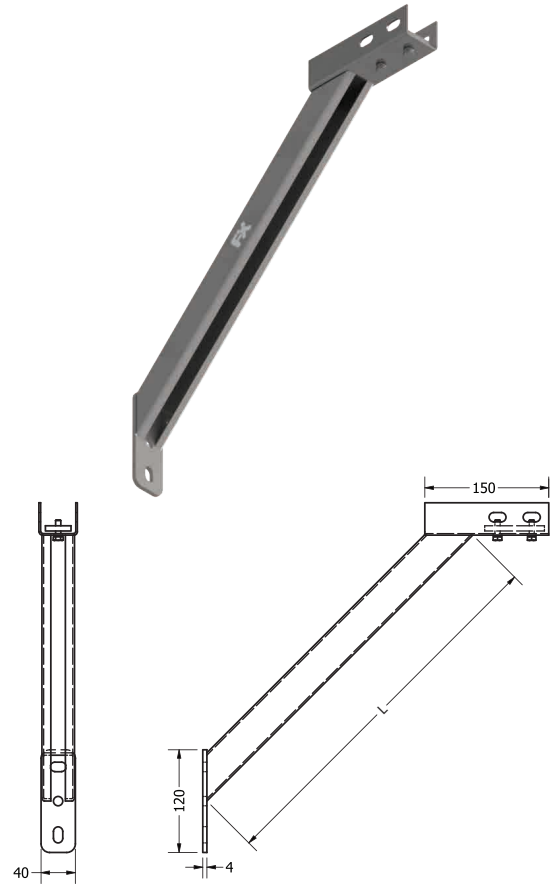
<b>Material</b>	<b>Base Plate</b> : S235 JR or equivalent steel <b>U Profile &amp; Mounting Rail</b> : DD11 or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

### Applications

- Bracing for FXR Mounting Rails structures for carrying higher loads
- Supporting installation of medium to heavy-duty ventilation ducts, plumbing & firefighting pipes and cable trays

### Features & Benefits

- Easy to install with less components
- Prefabricated for rapid installation
- High load bearing capacity owing to special material properties and design.



### Select Variant

Article No.		Product Description	FXR Mounting Rail	Length (L) (mm)	Max. Recommended Load (N)	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)					
632000	632001	FXR Bracket support, 440 mm	41   21-41   82	440	6000	5
632010	632011	FXR Bracket support, 900 mm	41   21-41   82	900	3000	1

\*Available on request

# FXR Mounting Angle 90

## Connectors

Connection element for 90° connections of FXR Mounting Rails

### Material specifications

<b>Material</b>	S235 JR or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

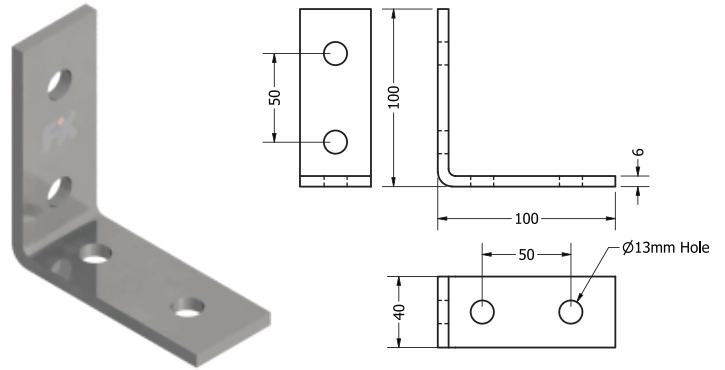
### Applications

- Building frame structures using FXR Mounting Rails
- Structural connection of FXR Mounting Rails
- Connecting FXR Mounting Rails at right angles

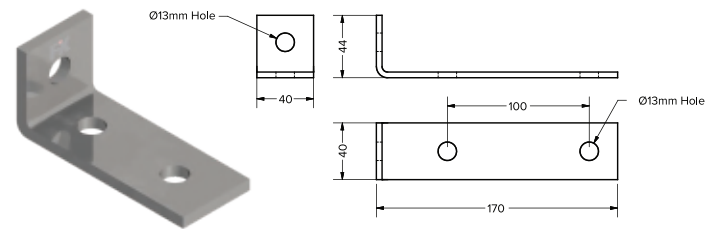
### Features & Benefits

- Quick and efficient connections of multiple support structures
- Creation of rigid structures without welding
- High load bearing capacity owing to special material properties and design.

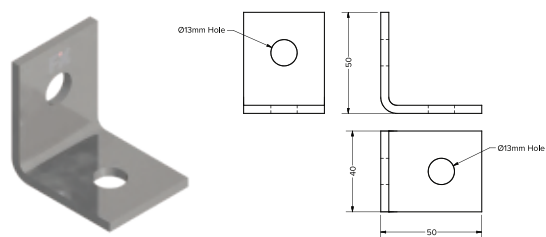
### FXR Mounting Angle 90° (2 + 2)



### FXR Mounting Angle 90° (2 + 1)



### FXR Mounting Angle 90° (1 + 1)



### Select Variant

Article No.		Product Description	FXR Mounting Rail	Angle	Width (mm)	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)					
637100	637101	FXR Mounting Angle 90° (2+2)	41   21-41   82	90°	40	25
637105	637106	FXR Mounting Angle 90° (2+1)	41   21-41   82	90°	40	30
637110	637111	FXR Mounting Angle 90° (1+1)	41   21-41   82	90°	40	50

\*Available on request

# FXR Mounting Angle 135

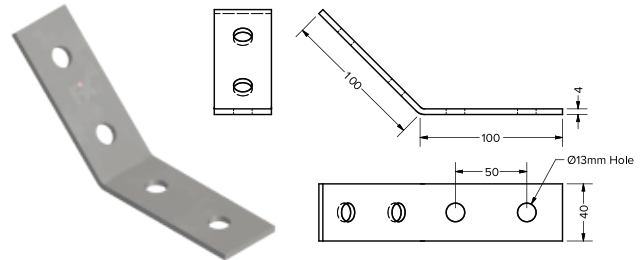
## Connectors

Connection element for 135° connections of FXR Mounting Rails

### Material specifications

<b>Material</b>	S235 JR or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

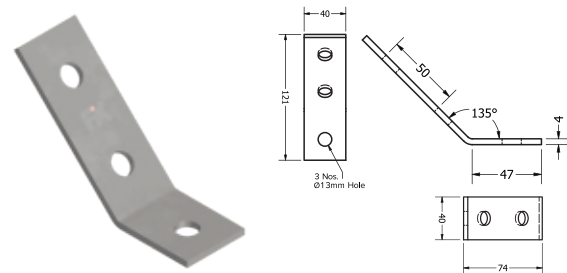
### FXR Mounting Angle 135 (2+2)



### Applications

- Building frame structures using FXR Mounting Rails
- Structural connection of FXR Mounting Rails
- Suitable for Seismic bracing installation
- Connecting FXR Mounting Rails at 45°/135° angles

### FXR Mounting Angle 135 (2+1)



### Features & Benefits

- Quick and efficient connections of multiple support structures
- Creation of rigid structures without welding
- High load bearing capacity owing to special material properties and design.

### Select Variant

Article No.		Product Description	FXR Mounting Rail	Angle	Width (mm)	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)					
637120	637121	FXR Mounting Angle 135° (2 + 2)	41   21-41   82	135°	40	25
637140	637141	FXR Mounting Angle 135° (2 + 1)	41   21-41   82	135°	40	25

\*Available on request



# FXR Mounting Angle 90 ( Internal)

## Connectors

Connection element for 90° internal connections of FXR Mounting Rails

### Material specifications

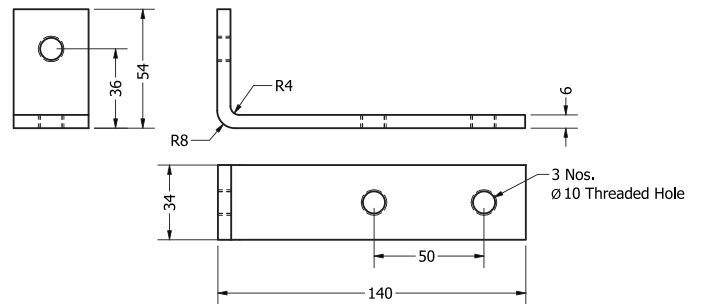
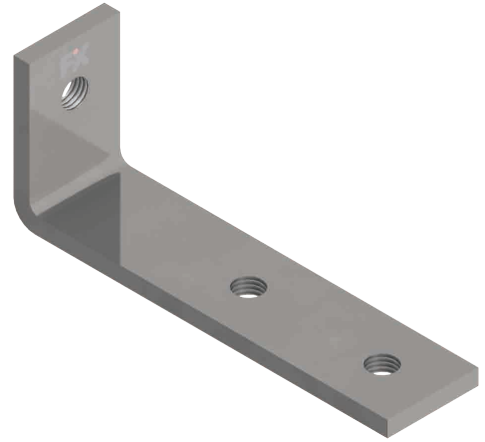
<b>Material</b>	S235 JR or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

### Applications

- Building frame structures using FXR Mounting Rails
- Structural connection of FXR Mounting Rails
- Suitable for cable tray and ducting
- Connecting FXR Mounting Rails internally at right angles

### Features & Benefits

- Cost saving due to lower usage of FXR Mounting Rails
- Quick and efficient connections of multiple support structures
- Creation of rigid structures without welding
- High load bearing capacity owing to special material properties and design.



### Select Variant

Article No.		Product Description	FXR Mounting Rail	Angle	Width (mm)	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)					
637115	637116	FXR Mounting Angle 90 (2+1) Internal	41   21-41   82	90°	34	25

\*Available on request

# FXR Flat Connector

## Connectors

Fixing element for Inplane connection of FXR Mounting Rails

### Material specifications

<b>Material</b>	S235 JR or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

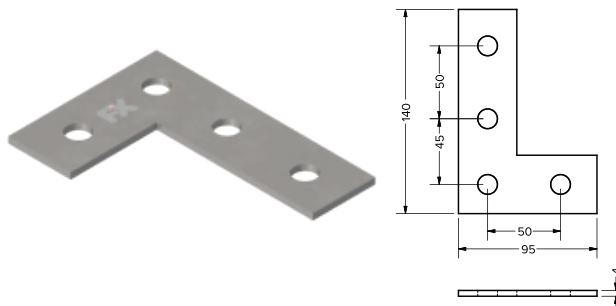
### Applications

- Inplane structural connections of FXR Mounting Rails
- Building frame structures using FXR Mounting rails

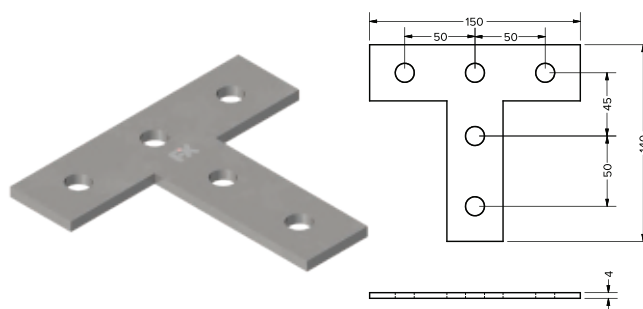
### Features & Benefits

- Ensuring reliable connection of flat and spatial fastening systems
- Creation of rigid structures without welding
- High load bearing capacity owing to special material properties and design.

### FXR Flat Connector L



### FXR Flat Connector T



### Select Variant

Article No.		Product Description	FXR Mounting Rail	t (mm)	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)				
637305	637306	FXR Flat Connector - L	41   21-41   82	4	50
637300	637301	FXR Flat Connector - T	41   21-41   82	4	50

\*Available on request

# FXR Saddle Flange

## Connectors

Supporting flange for FXR Mounting Rails

### Material specifications

<b>Material</b>	<b>Base Plate</b> : S235 JR or equivalent steel <b>Flange Profile</b> : DD11 or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

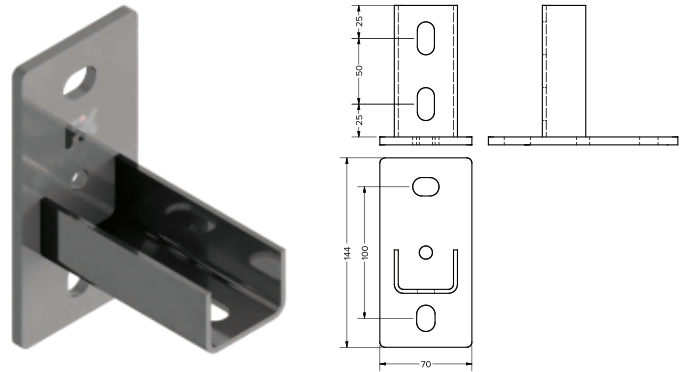
### Applications

- Structural connection of FXR Mounting Rails with any supporting material
- Allows for individual creation of cantilever arms

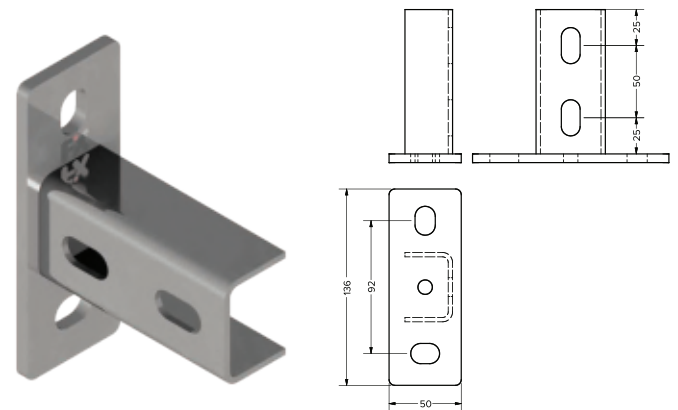
### Features & Benefits

- Provides higher torsional and bending rigidity for FXR Mounting rails
- Simple installation by inserting the mounting rail in the saddle
- Allows lateral and vertical adjustment of FXR Mounting Rail with reliable fastening.
- High load bearing capacity owing to special material properties and design.

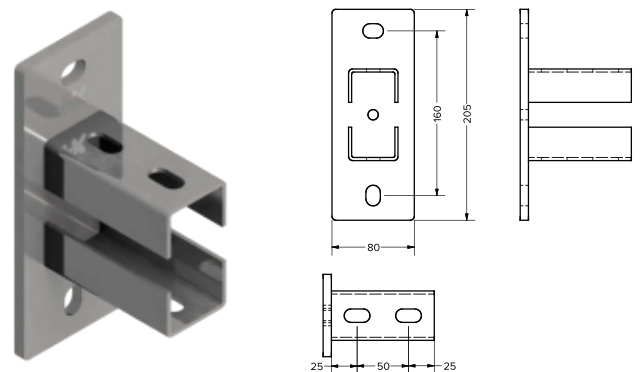
### FXR Saddle Flange - Lengthwise



### FXR Saddle Flange - Crosswise



### FXR Saddle Flange - Lengthwise Heavy



### Select Variant

Article No.		Product Description	FXR Mounting Rail	Orientation	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)				
637000	637001	FXR Saddle Flange - Lengthwise	41   41, 41   62	Lengthwise	20
637005	637006	FXR Saddle Flange - Crosswise	41   41, 41   62	Crosswise	20
637010	637011	FXR Saddle Flange - Lengthwise Heavy	41   82	Lengthwise	5

\*Available on request

# FXR Variable Saddle Flange

## Connectors

Variable supporting flange for FXR Mounting Rails

### Material specifications

<b>Material</b>	<b>Base Plate:</b> S235 JR or equivalent steel <b>Flange Profile:</b> DD11 or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

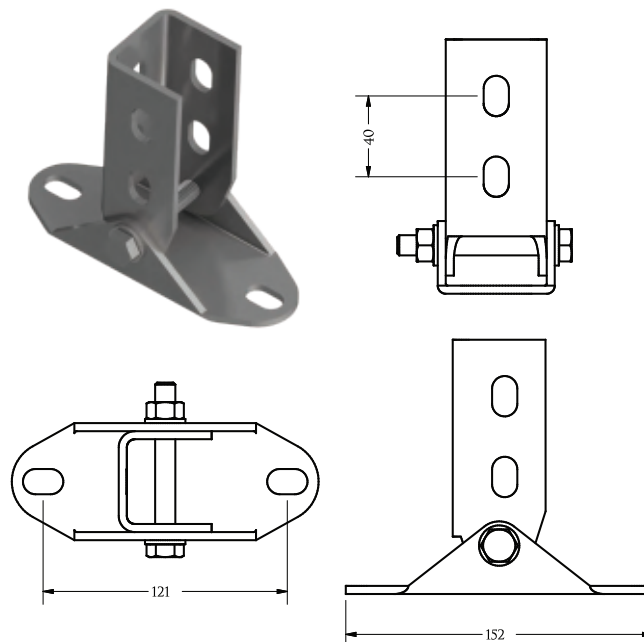
### Applications

- Ideal for bracing installation for FXR Mounting Rail structures and seismic support installations.
- Structural connection of FXR Mounting Rails with any supporting material
- Suitable for inclined roof/ceilings in PEB and RCC structures

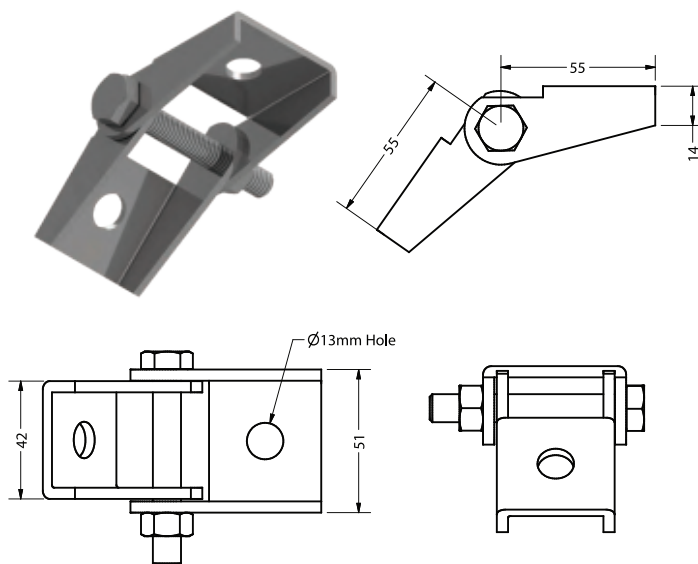
### Features & Benefits

- Increased flexibility during installation
- Ease of installation with less components
- Pre-assembled for rapid installation.

### FXR Variable Saddle Flange (2+2)



### FXR Variable Saddle Flange (1+1)



### Select Variant

Article No.		Product Description	FXR Mounting Rail	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)			
637810	637811	FX Variable Saddle Flange (2+2)	41   21, 41   41, 41   62	10
637820	637821	FX Variable Saddle Flange (1+1)	41   21, 41   41, 41   62	20

\*Available on request

# FXR Longitudinal Connector

## Connectors

Connection element for longitudinal alignment of FXR Mounting Rails

### Material specifications

<b>Material</b>	DD11 or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

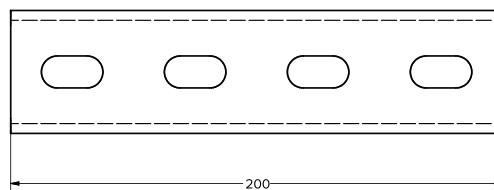
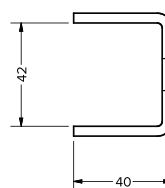


### Applications

- Longitudinal connections of FXR Mounting Rails.
- Maintaining continuity of FXR Mounting Rails for Large spans (e.g., In Pre-Engineered building structures)

### Features & Benefits

- Easy to install with less components
- Ensures longitudinal alignment of FXR mounting rails.
- Four through bolts ensures safer connections



### Select Variant

Article No.		Product Description	FXR Mounting Rail	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)			
637705	637706	FXR Longitudinal Connector	41 21-41 82**	10

\*Available on request

\*\* **Note:** Recommended numbers of FXR longitudinal connectors based on FXR mounting rail profiles.

1. For FXR 41|41 and FXR 41|62 – One connector per joint
2. For FXR 41|82 – Two connectors per joint

# FXR Lateral Angle Connector (1+1)

## Connectors

Fixing element for lateral connection of FXR mounting Rails

### Material specifications

<b>Material</b>	S235 JR or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

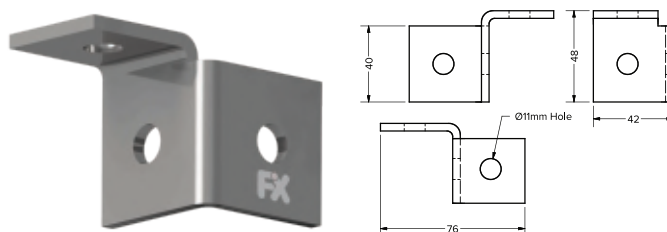
### Applications

- Building 2-Dimensional and 3-Dimensional frame structures using FXR Mounting Rails
- Structural connection of FXR Mounting Rails

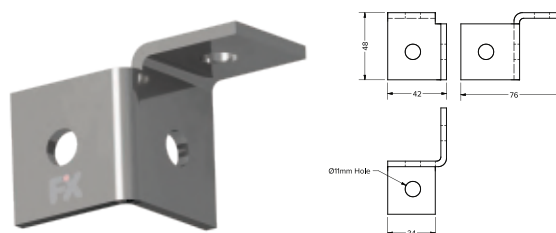
### Features & Benefits

- Easy to install with less components
- Quick and efficient connections of multiple support structures
- Creation of rigid structures without welding
- High load bearing capacity owing to special material properties and design.

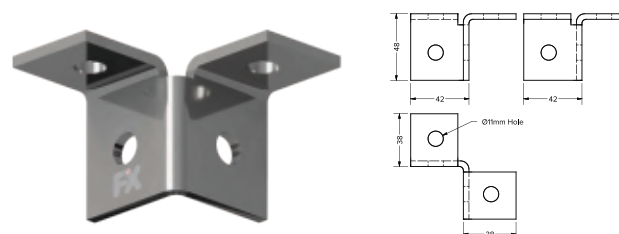
### FXR Lateral Angle Connector (1+1) - Left



### FXR Lateral Angle Connector (1+1) - Right



### FXR Lateral Angle Connector (1+1) - Double sided



### Select Variant

Article No.		Product Description	FXR Mounting Rail	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)			
637400	637401	FX Lateral Angle Connector (1+1) - Left	41 21-41 82	10
637405	637406	FX Lateral Angle Connector (1+1) - Right	41 21-41 82	10
637410	637411	FX Lateral Angle Connector (1+1) - Double sided	41 21-41 82	10

\*Available on request

# FXR Lateral Angle Connector (2+2)

## Connectors

Fixing element for lateral connection of FXR mounting Rails

### Material specifications

<b>Material</b>	S235 JR or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

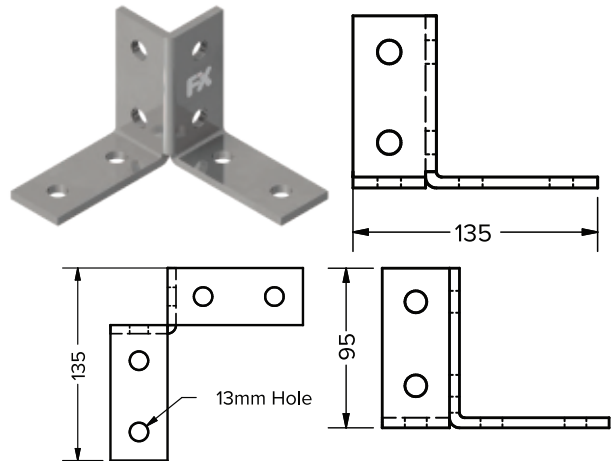
### Applications

- Building 2-Dimensional and 3-Dimensional frame structures using FXR Mounting Rails
- Structural connection of FXR Mounting Rails

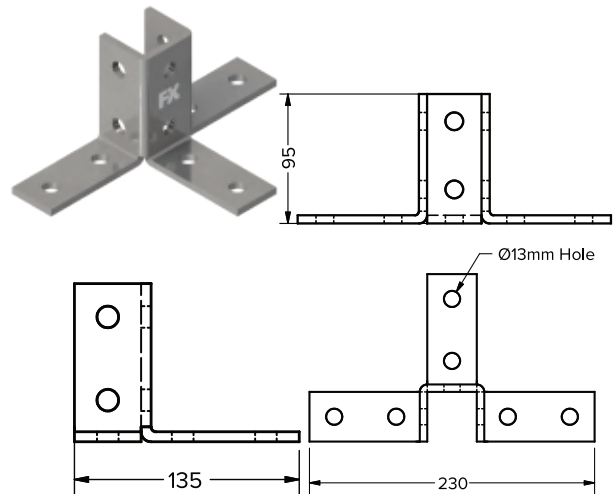
### Features & Benefits

- Easy to install with less components
- Quick and efficient connections of multiple support structures
- Creation of rigid structures without welding
- High load bearing capacity owing to special material properties and design.

### FXR Lateral Angle Connector (2+2) - Double sided



### FXR Lateral Angle Connector (2+2) - Three sided



### Select Variant

Article No.		Product Description	FXR Mounting Rail	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)			
637420	637421	FX Lateral Angle Connector (2+2) - Double sided	41 21-41 82	10
637430	637431	FX Lateral Angle Connector (2+2) - Three sided	41 21-41 82	10

\*Available on request

# FXR Cross Connector

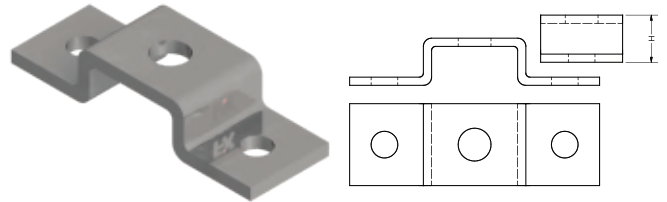
## Connectors

Fixing element for cross connections of FXR Mounting Rails

### Material specifications

<b>Material</b>	DD11 or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

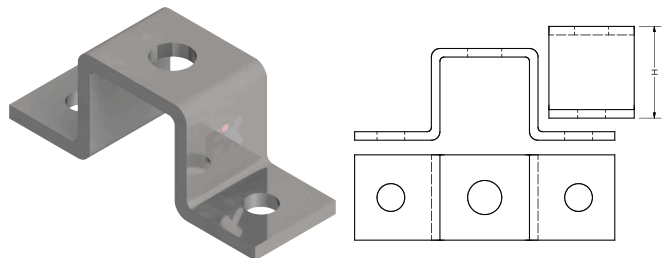
### FXR Cross Connector, 41|21



### Applications

- Cross connection of FXR Mounting Rails
- Connecting element for planar grid structures.

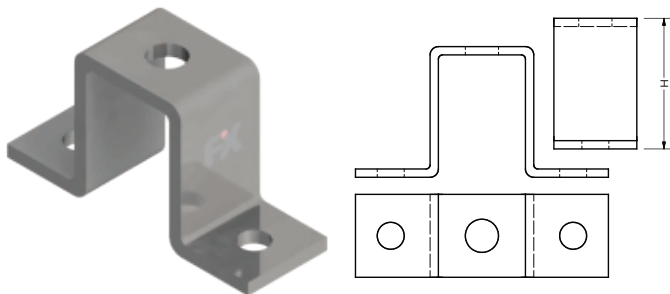
### FXR Cross Connector, 41|41



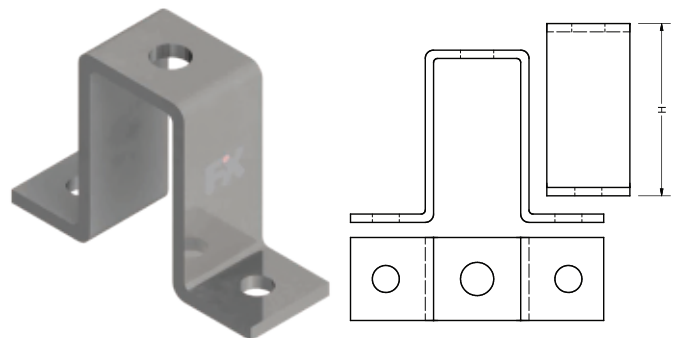
### Features & Benefits

- Easy to install with less components
- Ensures rotation-free FXR Mounting Rail structural connections
- Quick and efficient attachment of multiple support structure.

### FXR Cross Connector, 41|62



### FXR Cross Connector, 41|82



### Select Variant

Article No.		Product Description	FXR Mounting Rail	H (mm)	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)				
637610	637611	FXR Cross Connector, 41 21	41 21	23	50
637620	637621	FXR Cross Connector, 41 41	41 41	43	25
637630	637631	FXR Cross Connector, 41 62	41 62	63	25
637640	637641	FXR Cross Connector, 41 82	41 82	83	10

\*Available on request



# FXR Girder Cleat

## Accessories

Connection element for attachment of FXR Mounting Rails to steel girders

### Material specifications

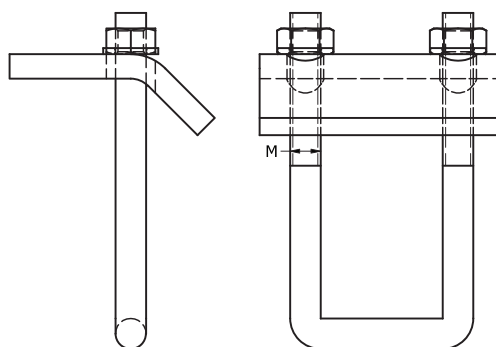
<b>Material</b>	S235 JR or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

### Applications

- Connection of FXR Mounting Rails to steel girders without welding or drilling

### Features & Benefits

- Easy to install, Pre-assembled Kit
- Enables secured transfer of loads from FXR Mounting Rail to steel girders
- Allows adjustment of FXR Mounting Rail along and across the supporting beam
- Suitable for Flange thicknesses of common steel girder profiles



### Select Variant

Article No.		Product Description	FXC Mounting Rail	M	Max. Recommended Load [N]	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)					
638005	638006	FXR Girder Cleat M8	41   21	M8	4500	25
638000	638001	FXR Girder Cleat M10	41   41, 41   62	M10	4500	25
638012	638013	FXR Girder Cleat M12	60   70	M12	5600	5

\*Available on request

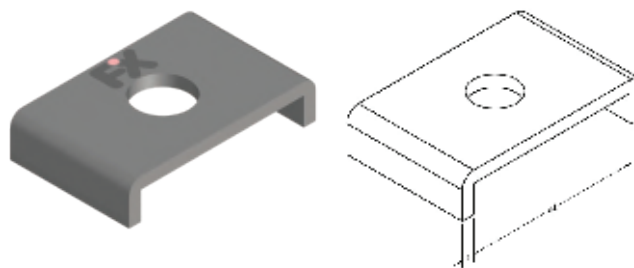
## FXR Retaining Clamp

### Accessories

Retaining Clamp for FXR Mounting Rails

#### Material specifications

<b>Material</b>	DD11 or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*



#### Applications

- Fastening metric threaded parts to
  - FXR Mounting Rails
- Ideal for FXR mounting rail assembly for cable tray and piping installations.

#### Features & Benefits

- Enables safe load transfer to FXR Mounting Rails
- U shaped design prevents expansion of the FXR Mounting Rail profiles
- Heavy-duty version available for transferring large forces

#### Select Variant

Article No.		Product Description	For Thread	t (mm)	FXR Mounting Rail	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)					
637506	637507	FXR Retaining Clamp M8	M8	3	41 21-41 82	30
637512	637513	FXR Retaining Clamp M10	M10	3	41 21-41 82	30
637518	637519	FXR Retaining Clamp M12	M12	3	41 21-41 82	30
637524	637525	FXR Retaining Clamp M16	M16	5	41 21-41 82	20

\*Available on request

## FXR Protection Cap

### Accessories

Protection cap for open ends of the FXR Mounting Rails

#### Material specifications

<b>Material</b>	Polyethylene
-----------------	--------------



#### Applications

- Covering the open ends of FXR Mounting Rails

#### Features & Benefits

- Provides protection from edge damage and corrosion
- Better aesthetic appearance of FXR mounting rail installation.

#### Select Variant

Article No.	Product Description	FXC Mounting Rail	Pack Size (Nos)
640000	FXR Protection Cap 41 21	41   21	250
640010	FXR Protection Cap 41 41	41   41	80
640020	FXR Protection Cap 41 62	41   62	50
640030	FXR Protection Cap 60  70	60   70	30

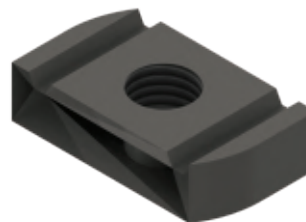
# FXR Rail Nut

## Accessories

Connection element for mounting of hex bolt / threaded rod with FXR Mounting Rails

### Material specifications

<b>Material</b>	S235 JR or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized, Powder Coating*, Zinc Magnesium*



### Applications

- Fastening accessories in the FXR Mounting Rails and FXR Cantilever Bracket
- Fastening metric threaded parts to FXR Mounting Rails

### Features & Benefits

- Serrations on the FXR Rail nut enables secure fixing and high load bearing capacity with FXR Mounting Rails
- Enables safe load transfer to FXR Mounting Rails

### Select Variant

Article No.		Product Description	Diameter	Size (mm)	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)				
641000	641001	FXR Rail Nut M6	M6	33x23x6	100
641005	641006	FXR Rail Nut M8	M8	33x23x6	100
641010	641011	FXR Rail Nut M10	M10	33x23x6	100
641015	641016	FXR Rail Nut M12	M12	33x23x6	50
641020	641021	FXR Rail Nut M16	M16	33x23x8	50

\*Available on request

# FXR Hammer Head Fastener

## Accessories

Connection element for mounting of pipe clamps to FXR Mounting Rails

### Material specifications

<b>Material</b>	S235 JR or equivalent steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*



### Applications

- Mounting of pipe clamps to the FXR Mounting Rails

### Features & Benefits

- Easy and fast assembly in rail slot
- Serrations on the FXR Hammer Head Fasteners enables secure fixing and high load bearing capacity with FXR Mounting Rails
- Enables safe load transfer to FXR Mounting Rails
- Various lengths and thread diameters can be combined within the same mounting rail
- Lateral adjustment at any moment enables proper alignment of the pipeline.

### Select Variant

Article No.		Product Description	FXC Mounting Rail	M	L (mm)	Pack Size (Nos)
Galvanized (vz)	HDG (fvz)					
643000	643001	FXR Hammer Head Fastener M8 x 35 mm	41   21-41   82	M8	35	50
643005	643006	FXR Hammer Head Fastener M8 x 40 mm	41   21-41   82	M8	40	50
643010	643011	FXR Hammer Head Fastener M8 x 50 mm	41   21-41   82	M8	50	50
643015	643016	FXR Hammer Head Fastener M8 x 80 mm	41   21-41   82	M8	80	50
643020	643021	FXR Hammer Head Fastener M8 x 100 mm	41   21-41   82	M8	100	50
643025	643026	FXR Hammer Head Fastener M10 x 35 mm	41   21-41   82	M10	35	50
643030	643031	FXR Hammer Head Fastener M10 x 40 mm	41   21-41   82	M10	40	50
643035	643036	FXR Hammer Head Fastener M10 x 55 mm	41   21-41   82	M10	55	50
643040	643041	FXR Hammer Head Fastener M10 x 60 mm	41   21-41   82	M10	60	50
643045	643046	FXR Hammer Head Fastener M10 x 80 mm	41   21-41   82	M10	80	25
643050	643051	FXR Hammer Head Fastener M10 x 100 mm	41   21-41   82	M10	100	25
643055	643056	FXR Hammer Head Fastener M12 x 40 mm	41   21-41   82	M12	40	50
643060	643061	FXR Hammer Head Fastener M12 x 55 mm	41   21-41   82	M12	55	50
643065	643066	FXR Hammer Head Fastener M12 x 60 mm	41   21-41   82	M12	60	50
643070	643071	FXR Hammer Head Fastener M12 x 80 mm	41   21-41   82	M12	80	25
643075	643076	FXR Hammer Head Fastener M12 x 100 mm	41   21-41   82	M12	100	25
643080	643081	FXR Hammer Head Fastener M16 x 65 mm	41   21-41   82	M16	65	25
643085	643086	FXR Hammer Head Fastener M16 x 100 mm	41   21-41   82	M16	100	25

\*Available on request

# PIPE CLAMPS

FXC Mounting Channels

FXC Mounting Channel Accessories

FXR Mounting Rails

FXR Mounting Rail Accessories

Pipe Clamps

Fixing & Fastening Systems

Ground Mounting Systems

FXT Heavy Rail Profiles

FXT Heavy Rail Profile Accessories

## Hinged Clamps



SRS Speedy

| 62



SRS Original

| 63



SRS Regular

| 64-65



SRS Regular without Lining

| 66



SRS Regular Silicone

| 67-68



SRS Heavy

| 69-70



SRS Heavy without Lining

| 71-72



SRS Heavy CS

| 73-74



SRS Heavy CS without Lining

| 75-76



SRS Standard



| 77



Riser Clamp



| 78



Clevis Hanger



| 79



Swivel Hanger



| 80



U Bolt



| 81



Rubber Support Inserts

| 82-83



SRS Static with Bracket

| 84



SRS Static with Bracket (Heavy)

| 85



Pipe Strap

| 86-87



Pipe Strap with Lining

| 88-89

## Single Bossed Clamps

## Special Clamps

**Hinged Clamps**

Single piece pipe clamp with easy click-in clamping design

Material specifications	
<b>Material</b>	<b>Pipe Clamp</b> - DC01 or equivalent steel <b>Lining</b> - EPDM
<b>Coatings</b>	Galvanized, Dacrotized*, Zinc Magnesium*
<b>Lining Properties</b>	<b>Service Temperature</b> -20°C to +110°C <b>Noise Reduction</b> Up to 18dB (A)

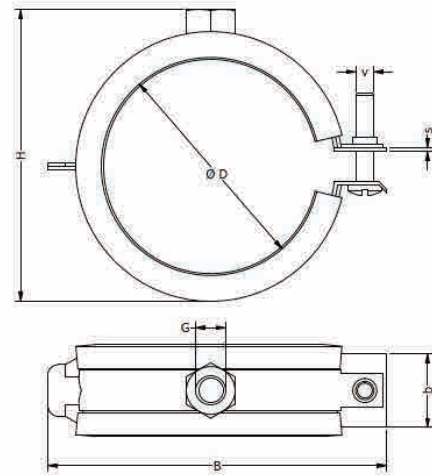


**Applications**

- Installation of plumbing and drainage pipes
- Suitable for installation of PVC & CPVC Pipes

**Features & Benefits**

- Single bolt design enables quicker installation
- Easy click-in clamping design allows opening and closing of the clamp with only one hand
- Positive-fit edge hook-in opening provides higher safety
- Noise insulating EPDM rubber lining



**Select Variant**

Article No.	Product Description	Clamping Range (D) (mm)	Pipe Size		G	bxs (mm)	V	Max. Reco. Static Load (Frec) (N)	Pack Size (Nos)
			(inch)	(mm)					
610000	FX SRS Speedy, M8, 1/4", (12-14)	12-14	1/4"	8	M8	20 x 1.5	M5	400	150
610006	FX SRS Speedy, M8, 3/8", (15-19)	15-19	3/8"	10	M8	20 x 1.5	M5	500	150
610012	FX SRS Speedy, M8, 1/2", (21-23)	21-23	1/2"	15	M8	20 x 1.5	M5	500	100
610018	FX SRS Speedy, M8, 3/4", (26-28)	26-28	3/4"	20	M8	20 x 1.5	M5	500	100
610024	FX SRS Speedy, M8, 1", (32-35)	32-35	1"	25	M8	20 x 1.5	M5	500	100
610030	FX SRS Speedy, M8, 1 1/4", (40-43)	40-43	1 1/4"	32	M8	20 x 1.5	M5	500	50
610036	FX SRS Speedy, M8, 1 1/2", (48-56)	48-56	1 1/2"	40	M8	20 x 1.5	M5	500	50
610042	FX SRS Speedy, M8, 2", (57-61)	57-61	2"	50	M8	20 x 1.5	M5	500	50
610048	FX SRS Speedy, M8, 65mm, (63-67)	63-67	-	65	M8	20 x 1.5	M5	850	50
610054	FX SRS Speedy, M8, 2 1/2", (74-80)	74-80	2 1/2"	77	M8	20 x 1.5	M5	850	50
610060	FX SRS Speedy, M8, 3", (83-91)	83-91	3"	80	M8	20 x 1.5	M5	1000	50
610072	FX SRS Speedy, M8/M10, 4", (108-114)	108-114	4"	100	M8/M10	20 x 2.0	M6	1000	25

\*Available on request

**Single Bossed Clamps**

Two piece single bossed clamp with noise insulating rubber lining

Material specifications	
<b>Material</b>	<b>Pipe Clamp</b> - DC01 or equivalent steel <b>Lining</b> - EPDM
<b>Coatings</b>	Galvanized, Dacrotized, Zinc Magnesium*

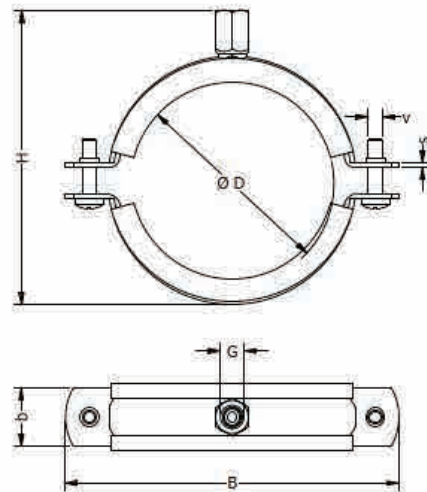


**Applications**

- Installation of plumbing and drainage pipes
- Suitable for installation of CPVC, UPVC, PP & PVC Pipes

**Features & Benefits**

- Two locking screws offers enhanced flexibility in accomdating higher variation of pipe diameters
- Dual nut allows multiple threaded attachments
- Reinforced rib and tread grommet design provide enhanced strength
- Noise insulating EPDM rubber lining



**Select Variant**

Article No.		Product Description	Clamping Range (D) (mm)	Pipe Size		G	bxs (mm)	V	Max. Reco. Static Load (Frec) (N)	Pack Size (Nos)
Galvanized (vz)	Dacrotized (fvz)			(inch)	(mm)					
613000	613001	FX SRS Original, M8/M10, 1/4", (12-15)	12-15	1/4"	-	M8/M10	19 x 1.2	M6	850	250
613006	613007	FX SRS Original, M8/M10, 3/8", (15-19)	15-19	3/8"	-	M8/M10	19 x 1.2	M6	850	250
613012	613013	FX SRS Original, M8/M10, 1/2", (20-25)	20-25	1/2"	-	M8/M10	19 x 1.2	M6	850	250
613018	613019	FX SRS Original, M8/M10, 3/4", (25-30)	25-30	3/4"	-	M8/M10	19 x 1.2	M6	850	250
613024	613025	FX SRS Original, M8/M10, 1", (33-37)	33-37	1"	-	M8/M10	19 x 1.2	M6	850	150
613030	613031	FX SRS Original, M8/M10, 1 1/4", (42-46)	42-46	1 1/4"	-	M8/M10	19 x 1.2	M6	850	150
613036	613037	FX SRS Original, M8/M10, 1 1/2", (47-52)	47-52	1 1/2"	-	M8/M10	19 x 1.2	M6	850	100
613042	613043	FX SRS Original, M8/M10, 57 mm, (54-58)	54-58	-	57	M8/M10	19 x 1.2	M6	850	100
613048	613049	FX SRS Original, M8/M10, 2", (59-63)	59-63	2"	-	M8/M10	19 x 1.2	M6	850	70
613054	613055	FX SRS Original, M8/M10, 70 mm, (68-73)	68-73	-	70	M8/M10	19 x 1.2	M6	850	50
613060	613061	FX SRS Original, M8/M10, 2 1/2", (72-80)	72-80	2 1/2"	-	M8/M10	19 x 1.6	M6	1400	150
613066	613067	FX SRS Original, M8/M10, 83 mm, (82-85)	82-85	-	83	M8/M10	19 x 1.6	M6	1400	150
613072	613073	FX SRS Original, M8/M10, 3", (88-92)	88-92	3"	-	M8/M10	19 x 1.6	M6	1400	140
613078	613079	FX SRS Original, M8/M10, 102 mm, (99-103)	99-103	-	102	M8/M10	19 x 1.6	M6	1400	140
613084	613085	FX SRS Original, M8/M10, 110 mm, (108-112)	108-112	-	110	M8/M10	19 x 1.6	M6	1400	140
613090	613091	FX SRS Original, M8/M10, 4", (112-118)	112-118	4"	-	M8/M10	19 x 1.6	M6	1400	130
613096	613097	FX SRS Original, M8/M10, 125 mm, (125-130)	125-130	-	125	M8/M10	19 x 2.0	M6	2000	130
613102	613103	FX SRS Original, M8/M10, 133 mm, (133-137)	133-137	-	133	M8/M10	19 x 2.0	M6	2000	130
613108	613109	FX SRS Original, M8/M10, 5", (137-142)	137-142	5"	-	M8/M10	19 x 2.0	M6	2000	100
613114	613115	FX SRS Original, M8/M10, 160 mm, (159-164)	159-164	-	160	M8/M10	19 x 2.0	M6	2000	100
613120	613121	FX SRS Original, M8/M10, 6", (164-169)	164-169	6"	-	M8/M10	19 x 2.0	M6	2000	100
613126	613127	FX SRS Original, M8/M10, 8", (215-220)	215-220	8"	-	M8/M10	19 x 2.0	M6	2000	50

\*Available on request

**Single Bossed Clamps**

Two piece single bossed clamp with noise insulating rubber lining

Material specifications	
<b>Material</b>	<b>Pipe Clamp</b> - DD11 or equivalent steel <b>Lining</b> - EPDM
<b>Coatings</b>	Galvanized, Dacrotized, Zinc Magnesium*
<b>Lining Properties</b>	<b>Service Temperature</b> -20°C to +110°C <b>Noise Reduction</b> Up to 18dB (A)

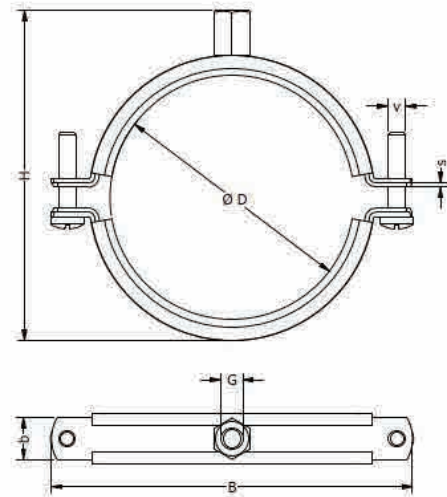


**Applications**

- Installation of Fire Fighting & Process Pipes
- Suitable for installation of steel pipes

**Features & Benefits**

- Solid connection boss, welded all round
- Two locking screws offers enhanced flexibility in accomdating higher variation of pipe diameters
- Dual nut allows multiple threaded attachments
- Reinforced rib and tread grommet design provide enhanced strength
- Noise insulating and temperature resistant EPDM lining



**Select Variant**

Article No.		Product Description	Clamping Range (D) (mm)	Pipe Size		G	B	H	bxs	V	Max. Reco. Static Load (Frec) (N)	Pack Size (Nos)
Galvanized (vz)	Dacrotized (fvz)			(inch)	(mm)							
614000	614001	FX SRS Regular, M10/M12, 3/8", (14-20)	14-20	3/8"	-	M10/M12	64	60	20x2.0	M6	1700	100
614006	614007	FX SRS Regular, M10/M12, 1/2", (21-26)	21-26	1/2"	-	M10/M12	71	66	20x2.0	M6	1700	100
614012	614013	FX SRS Regular, M10/M12, 3/4", (26-30)	26-30	3/4"	-	M10/M12	75	70	20x2.0	M5	1700	100
614018	614019	FX SRS Regular, M10/M12, 1", (31-38)	31-38	1"	-	M10/M12	81	76	20x2.0	M5	1700	100
614024	614025	FX SRS Regular, M10/M12, 40mm, (35-42)	35-42	-	40	M10/M12	-	-	20x2.0	M6	1700	50
614030	614031	FX SRS Regular, M10/M12, 1 1/4", (40-47)	40-47	1 1/4"	-	M10/M12	91	86	20x2.0	M6	1700	50
614036	614037	FX SRS Regular, M10/M12, 1 1/2", (48-54)	48-54	1 1/2"	-	M10/M12	100	94	20x2.0	M5	1700	50
614042	614043	FX SRS Regular, M10/M12, 57mm, (54-60)	54-60	-	57	M10/M12	105	99	20x2.0	M6	1700	50
614048	614049	FX SRS Regular, M10/M12, 2", (60-66)	60-66	2"	-	M10/M12	111	105	20x2.0	M6	1700	50
614054	614055	FX SRS Regular, M10/M12, 65mm, (63-68)	63-68	-	65	M10/M12	-	-	25x2.5	M8	2200	50
614060	614061	FX SRS Regular, M10/M12, 70mm, (68-73)	68-73	-	70	M10/M12	126	114	25x2.5	M8	2200	50
614066	614067	FX SRS Regular, M10/M12, 2 1/2", (73-80)	73-80	2 1/2"	-	M10/M12	131	119	25x2.5	M8	2200	50
614072	614073	FX SRS Regular, M10/M12, 83mm, (82-87)	82-87	-	83	M10/M12	142	129	25x2.5	M8	2900	50
614078	614079	FX SRS Regular, M10/M12, 3", (87-94)	87-94	3"	-	M10/M12	146	133	25x2.5	M8	2900	50
614084	614085	FX SRS Regular, M10/M12, 102mm, (99-104)	99-104	-	102	M10/M12	157	144	25x2.5	M8	2900	25
614090	614091	FX SRS Regular, M10/M12, 110mm, (105-112)	105-112	-	110	M10/M12	166	153	25x2.5	M8	2900	25
614096	614097	FX SRS Regular, M10/M12, 4", (112-118)	112-118	4"	-	M10/M12	172	159	25x2.5	M8	2900	25
614102	614103	FX SRS Regular, M10/M12, 125mm, (122-128)	122-128	-	125	M10/M12	182	169	25x2.5	M8	2900	25
614108	614109	FX SRS Regular, M10/M12, 133mm, (132-137)	132-137	-	133	M10/M12	191	178	25x2.5	M8	2900	25
614114	614115	FX SRS Regular, M10/M12, 5", (137-142)	137-142	5"	-	M10/M12	196	183	25x2.5	M5	2900	25
614120	614121	FX SRS Regular, M10/M12, 144mm, (142-148)	142-148	-	144	M10/M12	202	189	25x2.5	M8	2900	25
614126	614127	FX SRS Regular, M10/M12, 150mm, (149-156)	149-156	-	150	M10/M12	210	197	25x2.5	M8	2900	25
614132	614133	FX SRS Regular, M10/M12, 160mm, (159-164)	159-164	-	160	M10/M12	218	205	25x2.5	M8	2900	25



**Single Bossed Clamps**

Article No.		Product Description	Clamping Range (D) (mm)	Pipe Size		G	B (mm)	H (mm)	bxs (mm)	V	Max. Reco. Static Load (Frec) (N)	Pack Size (Nos)
Galvanized (vz)	Dacrotized (fvz)			(inch)	(mm)							
614138	614139			FX SRS Regular, M10/M12, 6", (164-169)	164-169							
614144	614145	FX SRS Regular, M10/M12, 170mm, (169-172)	169-172	-	170	M10/M12	225	212	25x2.5	M8	3500	25
614150	614151	FX SRS Regular, M10/M12, 180mm, (177-183)	177-183	-	180	M10/M12	235	223	25x2.5	M8	3500	25
614156	614157	FX SRS Regular, M10/M12, 200mm, (197-203)	197-203	-	200	M10/M12	256	243	25x2.5	M8	3500	25
614162	614163	FX SRS Regular, M10/M12, 212mm, (208-214)	208-214	-	212	M10/M12	284	256	40x3.0	M10	5800	10
614168	614169	FX SRS Regular, M10/M12, 8", (217-225)	217-225	8"	-	M10/M12	295	267	40x3.0	M10	5800	10
614174	614175	FX SRS Regular, M10/M12, 225mm, (225-232)	225-232	-	225	M10/M12	304	274	40x3.0	M10	5800	10

\*Available on request

## Single Bossed Clamps

Two piece single bossed clamp

### Material specifications

<b>Material</b>	DD11 or equivalent steel
<b>Coatings</b>	Galvanized, Dacrotized, Zinc Magnesium*

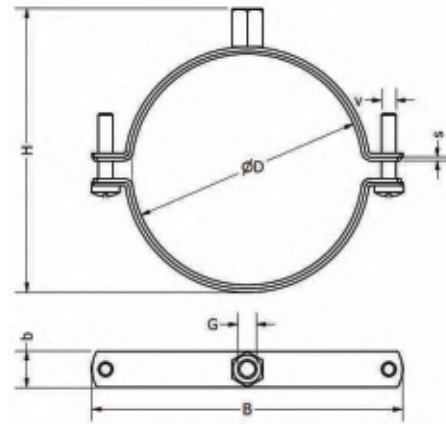


### Applications

- Installation of Fire Fighting & Process Pipes
- Suitable for installation of steel pipes

### Features & Benefits

- Solid connection boss, welded all round
- Two locking screws offers enhanced flexibility in accomdating higher variation of pipe diameters
- Dual nut allows multiple threaded attachments
- Reinforced rib design provides enhanced strength



### Select Variant

Article No.		Product Description	Clamping Range (D) (mm)	Pipe Size		G	B	H	bxs	V	Max. Reco. Static Load (Frec) (N)	Pack Size (Nos)
Galvanized (vz)	Dacrotized (fvz)			(inch)	(mm)							
614500	614501			FX SRS Regular w/o lining, M10/M12, 3/4", (26-30)	26-30							
614506	614507	FX SRS Regular w/o lining, M10/M12, 1", (31-37)	31-37	1"	-	M10/M12	71	66	20x2.0	M6	1900	100
614512	614513	FX SRS Regular w/o lining, M10/M12, 40 mm, (38-42)	38-42	-	40	M10/M12	75	70	20x2.0	M6	1900	100
614518	614519	FX SRS Regular w/o lining, M10/M12, 1 1/4", (43-47)	43-47	1 1/4"	-	M10/M12	81	76	20x2.0	M6	1900	50
614524	614525	FX SRS Regular w/o lining, M10/M12, 1 1/2", (47-52)	47-52	1 1/2"	-	M10/M12	87	81	20x2.0	M6	1900	50
614530	614531	FX SRS Regular w/o lining, M10/M12, 57 mm, (53-57)	53-57	-	57	M10/M12	91	86	20x2.0	M6	1900	50
614536	614537	FX SRS Regular w/o lining, M10/M12, 2", (58-63)	58-63	2"	-	M10/M12	100	94	20x2.0	M6	1900	50
614542	614543	FX SRS Regular w/o lining, M10/M12, 70 mm, (64-71)	64-71	-	70	M10/M12	105	99	20x2.0	M6	1900	50
614548	614549	FX SRS Regular w/o lining, M10/M12, 2 1/2", (72-78)	72-78	2 1/2"	-	M10/M12	120	108	25x2.5	M8	1900	50
614554	614555	FX SRS Regular w/o lining, M10/M12, 83 mm, (79-85)	79-85	-	83	M10/M12	126	114	25x2.5	M8	4400	50
614560	614561	FX SRS Regular w/o lining, M10/M12, 3", (85-90)	85-90	3"	-	M10/M12	131	119	25x2.5	M8	4400	50
614566	614567	FX SRS Regular w/o lining, M10/M12, 98 mm, (94-99)	94-99	-	98	M10/M12	142	129	25x2.5	M8	4400	50
614572	614573	FX SRS Regular w/o lining, M10/M12, 102 mm, (99-104)	99-104	-	102	M10/M12	146	133	25x2.5	M8	4400	25
614578	614579	FX SRS Regular w/o lining, M10/M12, 4", (108-115)	108-115	4"	-	M10/M12	157	144	25x2.5	M8	4400	25
614584	614585	FX SRS Regular w/o lining, M10/M12, 122 mm, (118-123)	118-123	-	122	M10/M12	166	153	25x2.5	M8	4400	25
614590	614591	FX SRS Regular w/o lining, M10/M12, 125 mm, (125-130)	125-130	-	125	M10/M12	172	159	25x2.5	M8	4400	25
614596	614597	FX SRS Regular w/o lining, M10/M12, 5", (133-140)	133-140	5"	-	M10/M12	182	169	25x2.5	M8	4400	25
614602	614603	FX SRS Regular w/o lining, M10/M12, 147 mm, (142-148)	142-148	-	147	M10/M12	191	178	25x2.5	M8	4400	25
614608	614609	FX SRS Regular w/o lining, M10/M12, 152 mm, (148-153)	148-153	-	152	M10/M12	196	183	25x2.5	M8	4400	25
614614	614615	FX SRS Regular w/o lining, M10/M12, 160 mm, (154-160)	154-160	-	160	M10/M12	202	189	25x2.5	M8	4400	25
614620	614621	FX SRS Regular w/o lining, M10/M12, 6", (160-169)	160-169	6"	-	M10/M12	210	197	25x2.5	M8	4400	25
614626	614627	FX SRS Regular w/o lining, M10/M12, 170 mm, (170-175)	170-175	-	170	M10/M12	218	205	25x2.5	M8	4400	25
614632	614633	FX SRS Regular w/o lining, M10/M12, 180 mm, (175-180)	175-180	-	180	M10/M12	223	210	25x2.5	M8	5000	25
614638	614639	FX SRS Regular w/o lining, M10/M12, 190 mm, (187-194)	187-194	-	190	M10/M12	235	223	25x2.5	M8	5000	25
614644	614645	FX SRS Regular w/o lining, M10/M12, 210 mm, (206-214)	206-214	-	210	M10/M12	256	243	25x2.5	M8	5000	25
614650	614651	FX SRS Regular w/o lining, M10/M12, 223 mm, (218-226)	218-226	-	223	M10/M12	-	-	40x3.0	M10	5300	10
614656	614657	FX SRS Regular w/o lining, M10/M12, 234 mm, (227-235)	227-235	-	234	M10/M12	-	-	40x3.0	M10	5300	10
614662	614663	FX SRS Regular w/o lining, M10/M12, 241 mm, (235-244)	235-244	-	241	M10/M12	-	-	40x3.0	M10	5300	10

\*Available on request

## Single Bossed Clamps

Two piece single bossed clamp with temperature resisting silicone lining

Material specifications	
<b>Material</b>	<b>Pipe Clamp</b> - DD11 or equivalent steel <b>Lining</b> - Silicone
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized*, Zinc Magnesium*
<b>Lining Properties</b>	<b>Service Temperature</b> upto 225°C <b>Noise Reduction</b> Up to 18dB (A)

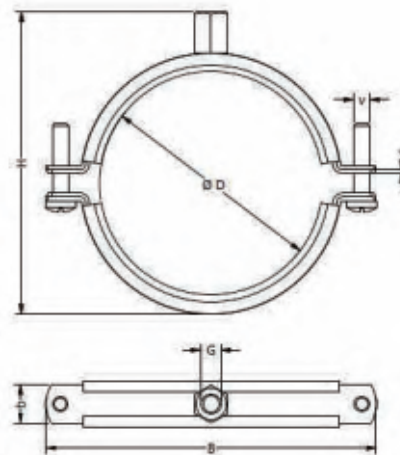


### Applications

- Installation of pipes subjected to increased service temperatures
- Suitable for installation of steam pipes & hot process pipes

### Features & Benefits

- Noise insulating and high temperature resistant silicone lining
- Solid connection boss, welded all round
- Two clamping screws offers enhanced flexibility in accomodating higher variation of pipe diameters
- Dual nut allows multiple threaded attachments
- Reinforced rib design provides enhanced strength



### Select Variant

Article No.	Product Description	Clamping Range (D) (mm)	Pipe Size		G	B	H	bxs	V	Max. Reco. Static Load (Frec) (N)	Pack Size (Nos)
			(inch)	(mm)							
613500	FX SRS Regular Silicone, M10/M12, 3/8", (14-20)	14-20	3/8"	-	M10/M12	64	60	20x2.0	M6	1700	100
613506	FX SRS Regular Silicone, M10/M12, 1/2", (21-26)	21-26	1/2"	-	M10/M12	71	66	20x2.0	M6	1700	100
613512	FX SRS Regular Silicone, M10/M12, 3/4", (26-30)	26-30	3/4"	-	M10/M12	75	70	20x2.0	M6	1700	100
613518	FX SRS Regular Silicone, M10/M12, 1", (31-38)	31-38	1"	-	M10/M12	81	76	20x2.0	M6	1700	100
613524	FX SRS Regular Silicone, M10/M12, 40mm, (35-42)	35-42	-	40	M10/M12	-	-	20x2.0	M6	1700	50
613530	FX SRS Regular Silicone, M10/M12, 1 1/4", (40-47)	40-47	1 1/4"	-	M10/M12	91	86	20x2.0	M6	1700	50
613536	FX SRS Regular Silicone, M10/M12, 1 1/2", (48-54)	48-54	1 1/2"	-	M10/M12	100	94	20x2.0	M6	1700	50
613542	FX SRS Regular Silicone, M10/M12, 57mm, (54-60)	54-60	-	57	M10/M12	105	99	20x2.0	M6	1700	50
613548	FX SRS Regular Silicone, M10/M12, 2", (60-66)	60-66	2"	-	M10/M12	111	105	20x2.0	M6	1700	50
613554	FX SRS Regular Silicone, M10/M12, 65mm, (63-68)	63-68	-	65	M10/M12	-	-	25x2.5	M8	2200	50
613560	FX SRS Regular Silicone, M10/M12, 70mm, (68-73)	68-73	-	70	M10/M12	126	114	25x2.5	M8	2200	50
613566	FX SRS Regular Silicone, M10/M12, 2 1/2", (73-80)	73-80	2 1/2"	-	M10/M12	131	119	25x2.5	M8	2200	50
613572	FX SRS Regular Silicone, M10/M12, 83mm, (82-87)	82-87	-	83	M10/M12	142	129	25x2.5	M8	2900	50
613578	FX SRS Regular Silicone, M10/M12, 3", (87-94)	87-94	3"	-	M10/M12	146	133	25x2.5	M8	2900	50
613584	FX SRS Regular Silicone, M10/M12, 102mm, (99-104)	99-104	-	102	M10/M12	157	144	25x2.5	M8	2900	25
613590	FX SRS Regular Silicone, M10/M12, 110mm, (105-112)	105-112	-	110	M10/M12	166	153	25x2.5	M8	2900	25
613596	FX SRS Regular Silicone, M10/M12, 4", (112-118)	112-118	4"	-	M10/M12	172	159	25x2.5	M8	2900	25
613602	FX SRS Regular Silicone, M10/M12, 125m, (122-128)	122-128	-	125	M10/M12	182	169	25x2.5	M8	2900	25
613608	FX SRS Regular Silicone, M10/M12, 133mm, (132-137)	132-137	-	133	M10/M12	191	178	25x2.5	M8	2900	25
613614	FX SRS Regular Silicone, M10/M12, 5", (137-142)	137-142	5"	-	M10/M12	196	183	25x2.5	M8	2900	25
613620	FX SRS Regular Silicone, M10/M12, 144mm, (142-148)	142-148	-	144	M10/M12	202	189	25x2.5	M8	2900	25
613626	FX SRS Regular Silicone, M10/M12, 150mm, (149-156)	149-156	-	150	M10/M12	210	197	25x2.5	M8	2900	25
613632	FX SRS Regular Silicone, M10/M12, 160mm, (159-164)	159-164	-	160	M10/M12	218	205	25x2.5	M8	2900	25

## Single Bossed Clamps

Article No.	Product Description	Clamping Range (D) (mm)	Pipe Size		G	B (mm)	H (mm)	bxs (mm)	V	Max. Reco. Static Load (Frec) (N)	Pack Size (Nos)
			(inch)	(mm)							
613638	FX SRS Regular Silicone, M10/M12, 6", (164-169)	164-169	6"	-	M10/M12	223	210	25x2.5	M8	2900	25
613644	FX SRS Regular Silicone, M10/M12, 170mm, (169-172)	169-172	-	170	M10/M12	225	212	25x2.5	M8	3500	25
613650	FX SRS Regular Silicone, M10/M12, 180mm, (177-183)	177-183	-	180	M10/M12	235	223	25x2.5	M8	3500	25
613656	FX SRS Regular Silicone, M10/M12, 200mm, (197-203)	197-203	-	200	M10/M12	256	243	25x2.5	M8	3500	25
613662	FX SRS Regular Silicone, M10/M12, 212mm, (208-214)	208-214	-	212	M10/M12	284	256	40x3.0	M10	5800	10
613668	FX SRS Regular Silicone, M10/M12, 8", (217-225)	217-225	8"	-	M10/M12	295	267	40x3.0	M10	5800	10
613674	FX SRS Regular Silicone, M10/M12, 225mm, (225-232)	225-232	-	225	M10/M12	304	274	40x3.0	M10	5800	10

\*Available on request

Single Bossed Clamps

Two piece single bossed clamp with strong clamping bolts and noise insulating rubber lining

Material specifications	
<b>Material</b>	<b>Pipe Clamp</b> - DD11 or equivalent steel <b>Lining</b> - EPDM
<b>Coatings</b>	Galvanized, Dacrotized*, Zinc Magnesium*
<b>Lining Properties</b>	<b>Service Temperature</b> -20°C to +110°C <b>Noise Reduction</b> Up to 18dB (A)

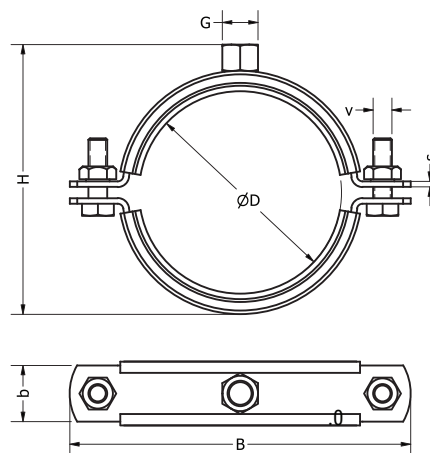


Applications

- Installation of heavy duty industrial pipes
- Suitable for installation of cast iron and ductile iron pipes

Features & Benefits

- Strong clamping bolts for higher loads
- Solid connection boss, welded all round
- Two clamping bolts offers enhanced flexibility in accomdating higher variation of pipe diameters
- Reinforced rib design provides enhanced strength
- Noise insulating and temperature resistant EPDM lining



Select Variant

Article No.	Product Description	Clamping Range (D) (mm)	Pipe Size		G	B	H	bxs	V	Max. Reco. Static Load (Frec)	Pack Size
			(inch)	(mm)							
615500	FX SRS Heavy, M12, 1/4", (12-17)	12 - 17	1/4"	-	M12	75	26	25x2.0	M8	2750	50
615506	FX SRS Heavy, M12, 1/2", (21 - 28)	21 - 28	1/2"	-	M12	81	30	25x2.0	M8	2750	50
615512	FX SRS Heavy, M12, 3/4", (25 - 32)	25 - 32	3/4"	-	M12	87	33	25x2.0	M8	2750	50
615518	FX SRS Heavy, M12, 1", (33 - 40)	33 - 40	1"	-	M12	94	37	25x2.0	M8	2750	50
615524	FX SRS Heavy, M12, 1 1/4", (41 - 48)	41 - 48	1 1/4"	-	M12	103	41	25x2.0	M8	2750	50
615530	FX SRS Heavy, M12, 1 1/2", (48 - 56)	48 - 56	1 1/2"	-	M12	111	45	25x2.0	M8	2750	50
615536	FX SRS Heavy, M12, 57mm, (53 - 59)	53 - 59	-	57	M12	120	49	25x2.0	M8	2750	40
615542	FX SRS Heavy, M12, 2", (60 - 69)	60 - 69	2"	-	M12	125	51	25x2.0	M8	2750	40
615548	FX SRS Heavy, M12, 70mm, (67 - 75)	67 - 75	-	70	M12	134	55	25x2.0	M8	2750	40
615554	FX SRS Heavy, M12, 2 1/2", (75 - 81)	75 - 81	2 1/2"	-	M12	141	59	25x2.0	M8	2750	30
615560	FX SRS Heavy, M12, 83mm, (83 - 91)	83 - 91	-	83	M12	149	63	25x2.0	M8	2750	30
615566	FX SRS Heavy, M12, 3", (87 - 95)	87 - 95	3"	-	M12	154	65	25x2.0	M8	2750	30
615572	FX SRS Heavy, M12, 102mm, (95 - 104)	95 - 104	-	102	M12	161	69	25x2.0	M8	2750	30
615578	FX SRS Heavy, M12, 110mm, (102 - 112)	102 - 112	-	110	M12	169	73	30x2.5	M8	3750	30
615584	FX SRS Heavy, M12, 4", (109 - 119)	109 - 119	4"	-	M12	178	79	30x2.5	M8	3750	30
615590	FX SRS Heavy, M16, 125mm, (122 - 138)	122 - 138	-	125	M16	192	90	30x3.0	M10	6000	20
615596	FX SRS Heavy, M16, 133mm, (128 - 141)	128 - 141	-	133	M16	197	93	30x3.0	M10	6000	20
615602	FX SRS Heavy, M16, 5", (136 - 147)	136 - 147	5"	-	M16	204	96	30x3.0	M10	6000	10
615608	FX SRS Heavy, M16, 160mm, (153 - 164)	153 - 164	-	160	M16	220	104	30x3.0	M10	6000	10
615614	FX SRS Heavy, M16, 6", (164 - 174)	164 - 174	6"	-	M16	229	109	30x3.0	M10	6000	10
615620	FX SRS Heavy, M16, 200mm, (196 - 209)	196 - 209	-	200	M16	264	126	30x3.0	M10	6000	20
615626	FX SRS Heavy, M16, 8", (214 - 226)	214 - 226	8"	-	M16	279	134	30x4.0	M10	6000	15
615632	FX SRS Heavy, M16, 240mm, (240 - 250)	240 - 250	-	240	M16	310	148	30x4.0	M10	6000	15

**Single Bossed Clamps**

Article No.	Product Description	Clamping Range (D) (mm)	Pipe Size		G	B (mm)	H (mm)	bxs (mm)	V	Max. Reco. Static Load (Frec)	Pack Size
			(inch)	(mm)						(N)	(Nos)
615638	FX SRS Heavy, M16, 10", (266 - 274)	266 - 274	10"	-	M16	335	162	30x4.0	M10	6000	15
615644	FX SRS Heavy, M16, 12", (308 - 324)	308 - 324	12"	-	M16	400	185	40x4.0	M12	11700	10
615650	FX SRS Heavy, M16, 14", (340 - 356)	340 - 356	14"	-	M16	432	201	40x4.0	M12	11700	10
615656	FX SRS Heavy, M16, 380mm, (374 - 390)	374 - 390	-	380	M16	505	214	50x5.0	M16	13000	5
615662	FX SRS Heavy, M16, 16", (393 - 409)	393 - 409	16"	-	M16	537	230	50x5.0	M16	13000	5
615668	FX SRS Heavy, M16, 18", (444 - 460)	444 - 460	18"	-	M16	590	261	50x5.0	M16	13000	5
615674	FX SRS Heavy, M16, 20", (497 - 512)	497 - 512	20"	-	M16	645	286	50x5.0	M16	13000	4

\*Available on request

## Single Bossed Clamps

Two piece single bossed clamp with strong clamping bolts

Material specifications	
<b>Material</b>	DD11 or equivalent steel
<b>Coatings</b>	Galvanized, Dacrotized*, Powder Coated*, Zinc Magnesium*

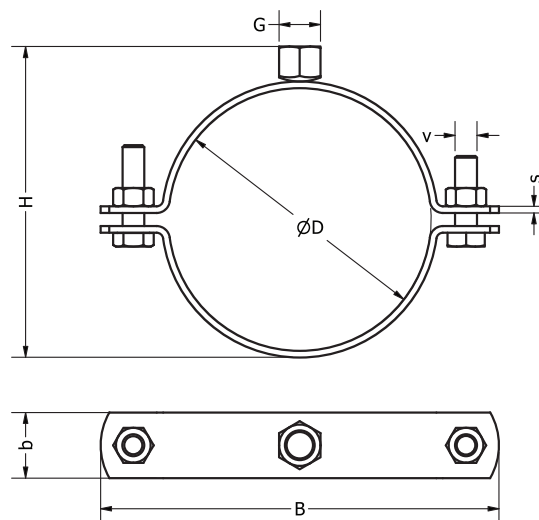


### Applications

- Installation of heavy duty industrial pipes
- Suitable for installation of cast iron and ductile iron pipes

### Features & Benefits

- Strong clamping bolts for higher loads
- Solid connection boss, welded all round
- Two clamping bolts offers enhanced flexibility in accomdating higher variation of pipe diameters
- Reinforced rib design provides enhanced strength



### Select Variant

Article No.	Product Description	Clamping Range (D) (mm)	Pipe Size		G	B	H	bxs	V	Max. Reco. Static Load (Frec)	Pack Size
			(inch)	(mm)							
615750	FX SRS Heavy w/o lining, M12, 1/2", (18 - 23)	18 - 23	1/2"	-	M12	75	26	25x2.0	M8	2750	50
615756	FX SRS Heavy w/o lining, M12, 3/4", (26 - 31)	26 - 31	3/4"	-	M12	81	30	25x2.0	M8	2750	50
615762	FX SRS Heavy w/o lining, M12, 1", (31 - 37)	31 - 37	1"	-	M12	87	33	25x2.0	M8	2750	50
615768	FX SRS Heavy w/o lining, M12, 1 1/4", (38 - 44)	38 - 44	1 1/4"	-	M12	94	36,5	25x2.0	M8	2750	50
615774	FX SRS Heavy w/o lining, M12, 1 1/2", (46 - 53)	46 - 53	1 1/2"	-	M12	103	41	25x2.0	M8	2750	50
615780	FX SRS Heavy w/o lining, M12, 57mm, (54 - 60)	54 - 60	-	57	M12	111	44,5	25x2.0	M8	2750	50
615786	FX SRS Heavy w/o lining, M12, 2", (60 - 68)	60 - 68	2"	-	M12	120	48,5	25x2.0	M8	2750	40
615792	FX SRS Heavy w/o lining, M12, 70mm, (66 - 73)	66 - 73	-	70	M12	125	51	25x2.0	M8	2750	40
615798	FX SRS Heavy w/o lining, M12, 2 1/2", (74 - 81)	74 - 81	2 1/2"	-	M12	134	55	25x2.0	M8	2750	40
615804	FX SRS Heavy w/o lining, M12, 83mm, (82 - 88)	82 - 88	-	83	M12	141	59	25x2.0	M8	2750	30
615810	FX SRS Heavy w/o lining, M12, 3", (88 - 97)	88 - 97	3"	-	M12	149	63	25x2.0	M8	2750	30
615816	FX SRS Heavy w/o lining, M12, 93mm, (93 - 100)	93 - 100	-	93	M12	154	65	25x2.0	M8	2750	30
615822	FX SRS Heavy w/o lining, M12, 102mm, (101 - 109)	101 - 109	-	102	M12	161	69	25x2.0	M8	2750	30
615828	FX SRS Heavy w/o lining, M12, 4", (110 - 118)	110 - 118	4"	-	M12	169	73	30x2.5	M8	3750	30
615834	FX SRS Heavy w/o lining, M12, 125mm, (116 - 126)	116 - 126	-	125	M12	178	78,6	30x2.5	M8	3750	30
615840	FX SRS Heavy w/o lining, M16, 133mm, (130 - 141)	130 - 141	-	133	M16	192	90,1	30x3.0	M10	6000	20
615846	FX SRS Heavy w/o lining, M16, 5", (136 - 145)	136 - 145	5"	-	M16	197	92,6	30x3.0	M10	6000	20
615852	FX SRS Heavy w/o lining, M16, 144mm, (144 - 154)	144 - 154	-	144	M16	204	96,1	30x3.0	M10	6000	10
615858	FX SRS Heavy w/o lining, M16, 6", (160 - 169)	160 - 169	6"	-	M16	220	104,1	30x3.0	M10	6000	10
615864	FX SRS Heavy w/o lining, M16, 170mm, (170 - 180)	170 - 180	-	170	M16	229	108,6	30x3.0	M10	6000	10
615870	FX SRS Heavy w/o lining, M16, 212mm, (202 - 214)	202 - 214	-	212	M16	264	126,1	30x3.0	M10	6000	20
615876	FX SRS Heavy w/o lining, M16, 8", (219 - 230)	219 - 230	8"	-	M16	279	133,6	30x4.0	M10	6000	15
615882	FX SRS Heavy w/o lining, M16, 245mm, (245 - 255)	245 - 255	-	245	M16	310	148	30x4.0	M10	6000	15

## Single Bossed Clamps

Article No.	Product Description	Clamping Range (D) (mm)	Pipe Size		G	B (mm)	H (mm)	bxs (mm)	V	Max. Reco. Static Load (Frec) (N)	Pack Size (Nos)
			(inch)	(mm)							
615888	FX SRS Heavy w/o lining, M16, 10", (273 - 283)	273 - 283	10"	-	M16	335	161,6	30x4.0	M10	6000	15
615894	FX SRS Heavy w/o lining, M16, 12", (317 - 333)	317 - 333	12"	-	M16	400	184,8	40x4.0	M12	11700	10
615900	FX SRS Heavy w/o lining, M16, 14", (349 - 365)	349 - 365	14"	-	M16	432	200,8	40x4.0	M12	11700	10
615906	FX SRS Heavy w/o lining, M16, 380mm, (380 - 396)	380 - 396	-	380	M16	505	214	50x5.0	M16	13000	5
615912	FX SRS Heavy w/o lining, M16, 16", (398 - 414)	398 - 414	16"	-	M16	537	230	50x5.0	M16	13000	5
615918	FX SRS Heavy w/o lining, M16, 18", (450 - 466)	450 - 466	18"	-	M16	590	260,5	50x5.0	M16	13000	5
615924	FX SRS Heavy w/o lining, M16, 20", (501 - 517)	501 - 517	20"	-	M16	645	286	50x5.0	M16	13000	4



**Single Bossed Clamps**

Two piece single bossed clamp with connection socket and noise insulating rubber lining

Material specifications	
<b>Material</b>	<b>Pipe Clamp</b> - DD11 or equivalent steel <b>Lining</b> - EPDM
<b>Coatings</b>	Galvanized, Dacrotized*, Powder Coated*, Zinc Magnesium*
<b>Lining Properties</b>	<b>Service Temperature</b> -20°C to +110°C <b>Noise Reduction</b> Up to 18dB (A)

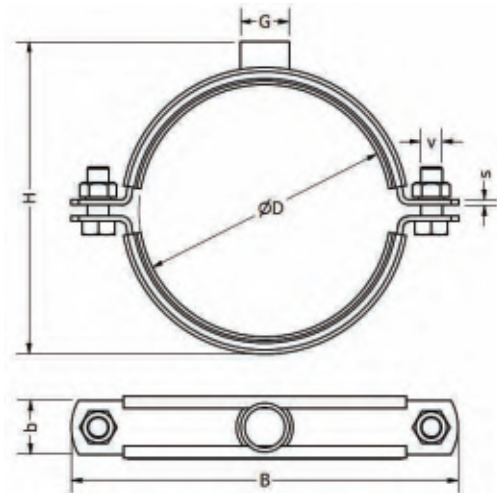


**Applications**

- Installation of heavy duty industrial pipes
- Suitable for installation of cast iron and ductile iron pipes
- Suitable for stand-off Installations of pipes

**Features & Benefits**

- Connection socket provides higher bending resistance for stand off pipe installations
- Ideally to be used with threaded pipe and base plate for stand off pipe installations
- Strong clamping bolts offers enhanced flexibility in accomdating higher variation of pipe diameters and higher loads
- Dual nut allows multiple threaded attachments
- Reinforced rib design provides enhanced strength
- Noise insulating and temperature resistant EPDM lining



**Select Variant**

Article No.	Product Description	Clamping Range (D) (mm)	Pipe Size		G	B (mm)	H (mm)	bxs (mm)	V	Max. Reco. Static Load (Frec) (N)	Pack Size (Nos)
			(inch)	(mm)							
615000	FX SRS Heavy CS, 1/4", (12 - 17)	12 - 17	1/4"	-	1/2"-3/4"-1"	75	27	25x2.0	M8	2750	50
615006	FX SRS Heavy CS, 1/2", (21 - 28)	21 - 28	1/2"	-	1/2"-3/4"-1"	81	31	25x2.0	M8	2750	50
615012	FX SRS Heavy CS, 3/4", (25 - 32)	25 - 32	3/4"	-	1/2"-3/4"-1"	87	34	25x2.0	M8	2750	50
615018	FX SRS Heavy CS, 1", (33 - 40)	33 - 40	1"	-	1/2"-3/4"-1"	94	38	25x2.0	M8	2750	50
615024	FX SRS Heavy CS, 1 1/4", (41 - 48)	41 - 48	1 1/4"	-	1/2"-3/4"-1"	103	43	25x2.0	M8	2750	50
615030	FX SRS Heavy CS, 1 1/2", (48 - 56)	48 - 56	1 1/2"	-	1/2"-3/4"-1"	111	46	25x2.0	M8	2750	40
615036	FX SRS Heavy CS, 57mm, (53 - 59)	53 - 59	-	57	1/2"-3/4"-1"	120	50	25x2.0	M8	2750	40
615042	FX SRS Heavy CS, 2", (60 - 69)	60 - 69	2"	-	1/2"-3/4"-1"	125	52	25x2.0	M8	2750	40
615048	FX SRS Heavy CS, 70mm, (67 - 75)	67 - 75	-	70	1/2"-3/4"-1"	134	56	25x2.0	M8	2750	30
615054	FX SRS Heavy CS, 2 1/2", (75 - 81)	75 - 81	2 1/2"	-	1/2"-3/4"-1"	141	60	25x2.0	M8	2750	30
615060	FX SRS Heavy CS, 83mm, (83 - 91)	83 - 91	-	83	1/2"-3/4"-1"	149	64	25x2.0	M8	2750	30
615066	FX SRS Heavy CS, 3", (87 - 95)	87 - 95	3"	-	1/2"-3/4"-1"	154	66	25x2.0	M8	2750	30
615072	FX SRS Heavy CS, 102mm, (95 - 104)	95 - 104	-	102	1/2"-3/4"-1"	161	70	25x2.0	M8	2750	30
615078	FX SRS Heavy CS, 110mm, (102 - 112)	102 - 112	-	110	1/2"-3/4"-1"	169	74	30x2.5	M8	3750	30
615084	FX SRS Heavy CS, 4", (109 - 119)	109 - 119	4"	-	1/2"-3/4"-1"	178	80	30x2.5	M8	3750	30
615090	FX SRS Heavy CS, 125mm, (122 - 138)	122 - 138	-	125	1/2"-3/4"-1"	192	87	30x3.0	M10	6000	10
615096	FX SRS Heavy CS, 133mm, (128 - 141)	128 - 141	-	133	1/2"-3/4"-1"	197	90	30x3.0	M10	6000	10
615102	FX SRS Heavy CS, 5", (136 - 147)	136 - 147	5"	-	1/2"-3/4"-1"	204	93	30x3.0	M10	6000	10
615108	FX SRS Heavy CS, 160mm, (153 - 164)	153 - 164	-	160	1/2"-3/4"-1"	220	101	30x3.0	M10	6000	10
615114	FX SRS Heavy CS, 6", (164 - 174)	164 - 174	6"	-	1/2"-3/4"-1"	229	106	30x3.0	M10	6000	20
615120	FX SRS Heavy CS, 202mm, (196 - 209)	196 - 209	-	202	1/2"-3/4"-1"	264	123	30x3.0	M10	6000	20

Single Bossed Clamps

Article No.	Product Description	Clamping Range (D) (mm)	Pipe Size		G	B (mm)	H (mm)	bxs (mm)	V	Max. Reco. Static Load (Frec) (N)	Pack Size (Nos)
			(inch)	(mm)							
615126	FX SRS Heavy CS, 8", (214 - 226)	214 - 226	8"	-	1/2"-3/4"-1"	279	131	30x4.0	M10	6000	15
615132	FX SRS Heavy CS, 10", (266 - 274)	266 - 274	10"	-	1/2"-3/4"-1"	335	159	30x4.0	M10	6000	15
615138	FX SRS Heavy CS, 12", (308 - 324)	308 - 324	12"	-	1/2"-3/4"-1"	400	182	30x4.0	M12	11700	10
615144	FX SRS Heavy CS, 14", (340 - 356)	340 - 356	14"	-	1/2"-3/4"-1"	432	198	40x4.0	M12	11700	8
615150	FX SRS Heavy CS, 380mm, (374 - 390)	374 - 390	-	380	1/2"-3/4"-1"	505	213	40x4.0	M16	13000	5
615156	FX SRS Heavy CS, 16", (393 - 409)	393 - 409	16"	-	1/2"-3/4"-1"	537	227	50x5.0	M16	13000	5
615162	FX SRS Heavy CS, 18", (444 - 460)	444 - 460	18"	-	1/2"-3/4"-1"	590	255	50x5.0	M16	13000	5
615168	FX SRS Heavy CS, 20", (497 - 512)	497 - 512	20"	-	1/2"-3/4"-1"	645	281	50x5.0	M16	13000	4

FXC Mounting Channels

FXC Mounting Channel Accessories

FXR Mounting Rails

FXR Mounting Rail Accessories

Pipe Clamps

Fixing & Fastening Systems

Ground Mounting Systems

FXT Heavy Rail Profiles

FXT Heavy Rail Profile Accessories

## Single Bossed Clamps

Two piece single bossed clamp with connection socket

Material specifications	
<b>Material</b>	DD11 or equivalent steel
<b>Coatings</b>	Galvanized, Dacrotized*, Powder Coated*, Zinc Magnesium*

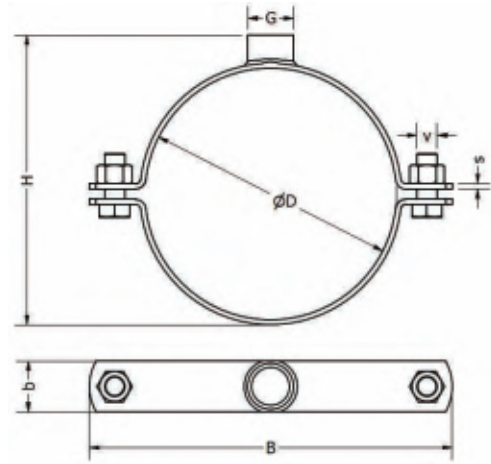


### Applications

- Installation of heavy duty industrial pipes
- Suitable for installation of cast iron and ductile iron pipes
- Suitable for stand-off Installations of pipes

### Features & Benefits

- Connection socket provides higher bending resistance for stand off pipe installations
- Ideally to be used with threaded pipe and base plate for pipe installations
- Strong clamping bolts offers enhanced flexibility in accomdating higher variation of pipe diameters and higher loads
- Dual nut allows multiple threaded attachments
- Reinforced rib design provides enhanced strength



### Select Variant

Article No.	Product Description	Clamping Range (D) (mm)	Pipe Size		G	B	H	bxs	V	Max. Reco. Static Load (Frec) (N)	Pack Size (Nos)
			(inch)	(mm)							
615250	FX SRS Heavy CS w/o Lining, 1/2", (18 - 23)	18 - 23	1/2"	-	1/2"-3/4"-1"	75	27	25x2.0	M8	2750	50
615256	FX SRS Heavy CS w/o Lining, 3/4", (26 - 31)	26 - 31	3/4"	-	1/2"-3/4"-1"	81	31	25x2.0	M8	2750	50
615262	FX SRS Heavy CS w/o Lining, 1", (31 - 37)	31 - 37	1"	-	1/2"-3/4"-1"	87	34	25x2.0	M8	2750	50
615268	FX SRS Heavy CS w/o Lining, 1 1/4", (38 - 44)	38 - 44	1 1/4"	-	1/2"-3/4"-1"	94	38	25x2.0	M8	2750	50
615274	FX SRS Heavy CS w/o Lining, 1 1/2", (46 - 53)	46 - 53	1 1/2"	-	1/2"-3/4"-1"	103	43	25x2.0	M8	2750	50
615280	FX SRS Heavy CS w/o Lining, 57mm, (54 - 60)	54 - 60	-	57	1/2"-3/4"-1"	111	46	25x2.0	M8	2750	50
615286	FX SRS Heavy CS w/o Lining, 2", (60 - 68)	60 - 68	2"	-	1/2"-3/4"-1"	120	50	25x2.0	M8	2750	40
615292	FX SRS Heavy CS w/o Lining, 70mm, (66 - 73)	66 - 73	-	70	1/2"-3/4"-1"	125	52	25x2.0	M8	2750	40
615298	FX SRS Heavy CS w/o Lining, 2 1/2", (74 - 81)	74 - 81	2 1/2"	-	1/2"-3/4"-1"	134	56	25x2.0	M8	2750	40
615304	FX SRS Heavy CS w/o Lining, 83mm, (82 - 88)	82 - 88	-	83	1/2"-3/4"-1"	141	60	25x2.0	M8	2750	30
615310	FX SRS Heavy CS w/o Lining, 3", (88 - 97)	88 - 97	3"	-	1/2"-3/4"-1"	149	64	25x2.0	M8	2750	30
615316	FX SRS Heavy CS w/o Lining, 102mm, (93 - 100)	93 - 100	-	102	1/2"-3/4"-1"	154	66	25x2.0	M8	2750	30
615322	FX SRS Heavy CS w/o Lining, 110mm, (101 - 109)	101 - 109	-	110	1/2"-3/4"-1"	161	70	25x2.0	M8	2750	30
615328	FX SRS Heavy CS w/o Lining, 4", (110 - 118)	110 - 118	4"	-	1/2"-3/4"-1"	169	74	30x2.5	M8	3750	30
615334	FX SRS Heavy CS w/o Lining, 125mm, (116 - 126)	116 - 126	-	125	1/2"-3/4"-1"	178	80	30x2.5	M8	3750	30
615340	FX SRS Heavy CS w/o Lining, 133mm, (130 - 141)	130 - 141	-	133	1/2"-3/4"-1"	192	87	30x3.0	M10	6000	20
615346	FX SRS Heavy CS w/o Lining, 5", (136 - 145)	136 - 145	5"	-	1/2"-3/4"-1"	197	90	30x3.0	M10	6000	20
615352	FX SRS Heavy CS w/o Lining, 150mm, (144 - 154)	144 - 154	-	150	1/2"-3/4"-1"	204	93	30x3.0	M10	6000	10
615358	FX SRS Heavy CS w/o Lining, 6", (160 - 169)	160 - 169	6"	-	1/2"-3/4"-1"	220	101	30x3.0	M10	6000	10
615364	FX SRS Heavy CS w/o Lining, 170mm, (170 - 180)	170 - 180	-	170	1/2"-3/4"-1"	229	106	30x3.0	M10	6000	10
615370	FX SRS Heavy CS w/o Lining, 212mm, (202 - 214)	202 - 214	-	212	1/2"-3/4"-1"	264	123	30x3.0	M10	6000	20

Single Bossed Clamps

Article No.	Product Description	Clamping Range (D) (mm)	Pipe Size		G	B (mm)	H (mm)	bxs (mm)	V	Max. Reco. Static Load (Frec) (N)	Pack Size (Nos)
			(inch)	(mm)							
615376	FX SRS Heavy CS w/o Lining, 8", (219 - 230)	219 - 230	8"	-	1/2"-3/4"-1"	279	131	30x4.0	M10	6000	15
615382	FX SRS Heavy CS w/o Lining, 10", (273 - 283)	273 - 283	10"	-	1/2"-3/4"-1"	335	159	30x4.0	M10	6000	15
615388	FX SRS Heavy CS w/o Lining, 12", (317 - 333)	317 - 333	12"	-	1/2"-3/4"-1"	400	182	30x4.0	M12	11700	15
615394	FX SRS Heavy CS w/o Lining, 14", (349 - 365)	349 - 365	14"	-	1/2"-3/4"-1"	432	198	40x4.0	M12	11700	10
615400	FX SRS Heavy CS w/o Lining, 380mm, (380 - 396)	380 - 396		380	1/2"-3/4"-1"	505	213	50x5.0	M16	13000	10
615406	FX SRS Heavy CS w/o Lining, 16", (398 - 414)	398 - 414	16"	-	1/2"-3/4"-1"	537	227	50x5.0	M16	13000	5
615412	FX SRS Heavy CS w/o Lining, 18", (450 - 466)	450 - 466	18"	-	1/2"-3/4"-1"	590	255	50x5.0	M16	13000	5
615418	FX SRS Heavy CS w/o Lining, 20", (501 - 517)	501 - 517	20"	-	1/2"-3/4"-1"	645	281	50x5.0	M16	13000	5

\*Available on request

Special Clamps

Two piece special clamp with strong clamping bolts

Material specifications	
<b>Material</b>	Carbon Steel
<b>Coatings</b>	Galvanised Hot-Dip Galvanized*, Powder coated*
<b>Properties</b>	<b>Service Temperature</b> up to 300°C

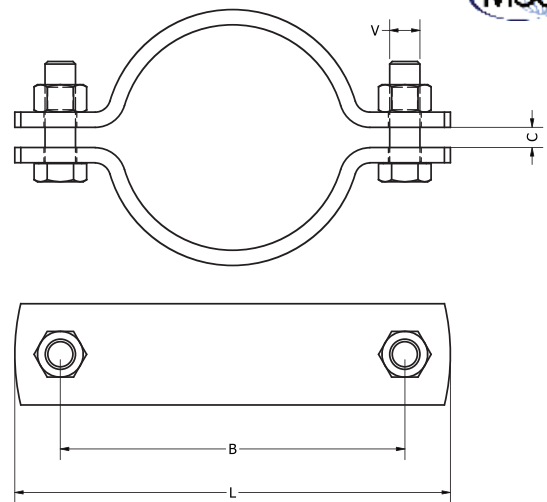


Applications

- Installation of horizontal heavy duty pipes
- Suitable for distribution of heavy loads when mounting pipes with longer spans

Features & Benefits

- Approved by Factory Mutual (FM) and Underwriters Laboratories (UL)
- Complies with Manufacturer's Standardization Society - MSS-SP-58 and MSS-SP-69 (Type 4)
- Two clamping bolts offers enhanced strength and stability
- Heavy duty design results in higher load carrying capacity



Select Variant

Article No.	Product Description	Pipe Size		V	L	B	C	Max. Reco. Static Load (Frec)	Pack Size
		(inch)	(mm)						
619000	FX SRS Standard, 1/2", MSS SP-58 & SP-69(Type 4), UL	1/2"	15	M10	94	64	10	2230	200
619006	FX SRS Standard, 3/4", MSS SP-58 & SP-69(Type 4), FM, UL	3/4"	20	M10	103	73	10	2230	150
619012	FX SRS Standard, 1", MSS SP-58 & SP-69(Type 4), FM, UL	1"	25	M10	109	79	10	2230	150
619018	FX SRS Standard, 1-1/4", MSS SP-58 & SP-69(Type 4), FM, UL	1-1/4"	32	M10	119	89	10	2230	200
619024	FX SRS Standard, 1-1/2", MSS SP-58 & SP-69(Type 4), FM, UL	1-1/2"	40	M10	128	98	10	3560	200
619030	FX SRS Standard, 2", MSS SP-58 & SP-69(Type 4), FM, UL	2"	50	M10	138	108	10	4630	120
619036	FX SRS Standard, 2-1/2", MSS SP-58 & SP-69(Type 4), FM, UL	2-1/2"	65	M10	152	122	13	4630	70
619042	FX SRS Standard, 3", MSS SP-58 & SP-69(Type 4), FM, UL	3"	80	M10	170	140	13	4630	50
619048	FX SRS Standard, 3-1/2", MSS SP-58 & SP-69(Type 4), FM, UL	3-1/2"	90	M10	182	152	13	4630	45
619054	FX SRS Standard, 4", MSS SP-58 & SP-69(Type 4), FM, UL	4"	100	M10	214	178	13	4630	15
619060	FX SRS Standard, 5", MSS SP-58 & SP-69(Type 4), FM, UL	5"	125	M12	239	203	13	4630	10
619066	FX SRS Standard, 6", MSS SP-58 & SP-69(Type 4), FM, UL	6"	150	M12	265	229	13	7190	10
619072	FX SRS Standard, 8", MSS SP-58 & SP-69(Type 4), FM, UL	8"	200	M16	349	305	16	7190	1
619078	FX SRS Standard, 10", MSS SP-58 & SP-69(Type 4), UL	10"	250	M16	393	349	16	11080	1
619084	FX SRS Standard, 12", MSS SP-58 & SP-69(Type 4), UL	12"	300	M16	450	406	16	11080	1
619090	FX SRS Standard, 14", MSS SP-58 & SP-69(Type 4)	14"	350	M16	485	441	20	11080	1
619096	FX SRS Standard, 16", MSS SP-58 & SP-69(Type 4)	16"	400	M20	568	508	20	11080	1
619102	FX SRS Standard, 18", MSS SP-58 & SP-69(Type 4)	18"	450	M20	619	559	20	13620	1
619108	FX SRS Standard, 20", MSS SP-58 & SP-69(Type 4)	20"	500	M20	670	610	20	13620	1
619114	FX SRS Standard, 24", MSS SP-58 & SP-69(Type 4)	24"	600	M24	807	737	25	13620	1

\*Available on request

## Special Clamps

Pipe Hanger or Pipe Support connected to the Riser

Material specifications	
<b>Material</b>	Carbon Steel
<b>Coatings</b>	Galvanised Hot dipped galvanized*, Powder coated*

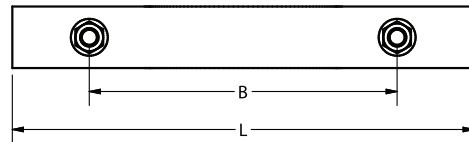
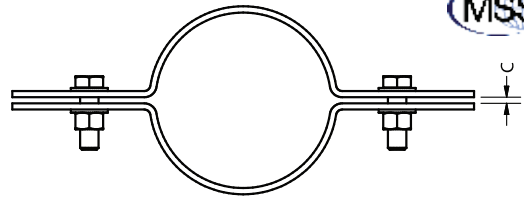


### Applications

- Installation of vertical riser pipes

### Features & Benefits

- Complies with Manufacturer's Standardization Society - MSS-SP-58 and MSS-SP-69 (Type 8)
- Approved by Factory Mutual (FM) and Underwriters Laboratories (UL)
- Acts as a rigid support or guide for vertical pipes
- Allows transfer of vertical loads to building structure



### Select Variant

Article No.	Product Description	Pipe Size		L (mm)	B (mm)	C (mm)	Max. Reco. Static Load (Frec) (N)	Pack Size (Nos)
		(inch)	(mm)					
616700	FX Riser Clamp 1/2", MSS SP-58 & SP-69(Type 8), UL	1/2"	15	216	64	10	980	50
616706	FX Riser Clamp 3/4", MSS SP-58 & SP-69(Type 8), FM, UL	3/4"	20	223	73	10	980	50
616712	FX Riser Clamp 1", MSS SP-58 & SP-69(Type 8), FM, UL	1"	25	229	79	10	980	42
616718	FX Riser Clamp 1 1/4", MSS SP-58 & SP-69(Type 8), FM, UL	1 1/4"	32	240	89	10	1120	42
616724	FX Riser Clamp 1 1/2", MSS SP-58 & SP-69(Type 8), FM, UL	1 1/2"	40	250	98	10	1120	42
616730	FX Riser Clamp 2", MSS SP-58 & SP-69(Type 8), FM, UL	2"	50	260	108	10	1340	30
616736	FX Riser Clamp 2 1/2", MSS SP-58 & SP-69(Type 8), FM, UL	2 1/2"	65	280	122	13	1780	25
616742	FX Riser Clamp 3", MSS SP-58 & SP-69(Type 8), FM, UL	3"	80	300	140	13	2230	20
616748	FX Riser Clamp 3 1/2", MSS SP-58 & SP-69(Type 8), FM, UL	3 1/2"	90	312	152	13	2230	15
616754	FX Riser Clamp 4", MSS SP-58 & SP-69(Type 8), FM, UL	4"	100	330	178	13	3340	12
616760	FX Riser Clamp 5", MSS SP-58 & SP-69(Type 8), FM, UL	5"	125	368	203	13	6680	10
616766	FX Riser Clamp 6", MSS SP-58 & SP-69(Type 8), FM, UL	6"	150	406	229	13	7120	4
616772	FX Riser Clamp 8", MSS SP-58 & SP-69(Type 8), FM, UL	8"	200	464	305	16	11200	4
616778	FX Riser Clamp 10", MSS SP-58 & SP-69(Type 8), UL	10"	250	524	349	16	11200	3
616784	FX Riser Clamp 12", MSS SP-58 & SP-69(Type 8), UL	12"	300	570	406	16	12000	1
616790	FX Riser Clamp 14", MSS SP-58 & SP-69(Type 8)	14"	350	613	441	20	12000	1
616796	FX Riser Clamp 16", MSS SP-58 & SP-69(Type 8)	16"	400	688	508	25	12900	1
616802	FX Riser Clamp 18", MSS SP-58 & SP-69(Type 8)	18"	450	739	559	25	12900	1
616808	FX Riser Clamp 20", MSS SP-58 & SP-69(Type 8)	20"	500	790	610	25	12900	1
616814	FX Riser Clamp 24", MSS SP-58 & SP-69(Type 8)	24"	600	935	737	32	12900	1

\*Available on request

## Special Clamps

Pipe Attachment consisting of a clevis type top bolted to a formed steel bottom strap

Material specifications	
<b>Material</b>	Carbon Steel
<b>Coatings</b>	Galvanised Hot dipped galvanized*, Powder coated*

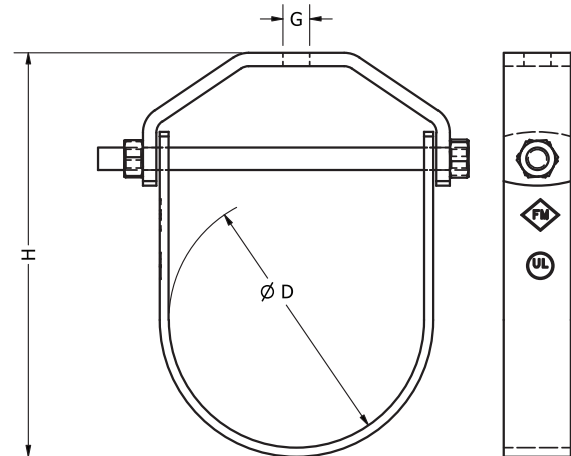


### Applications

- Installation of suspended heavy duty firefighting sprinkler and chilled water pipes

### Features & Benefits

- Approved by Factory Mutual (FM) and Underwriters Laboratories (UL)
- Complies with Manufacturer's Standardization Society - MSS-SP-58 and MSS-SP-69 (Type 1)
- Allows vertical pipe alignment after installation
- Can be provided with noise insulating high quality EPDM lining
- Can be provided with load distributing metal sleeve



### Select Variant

Article No.	Product Description	Pipe Size		G	H	Max. Reco. Static Load (Frec)	Pack Size
		(inch)	(mm)				
618506	FX Clevis Hanger M10, 1/2", MSS SP-58 & SP-69(Type 1), UL	1/2"	15	M10	54	2710	200
618512	FX Clevis Hanger M10, 3/4", MSS SP-58 & SP-69(Type 1), FM, UL	3/4"	20	M10	61	2710	150
618518	FX Clevis Hanger M10, 1", MSS SP-58 & SP-69(Type 1), FM, UL	1"	25	M10	69	3240	150
618524	FX Clevis Hanger M10, 1-1/4", MSS SP-58 & SP-69(Type 1), FM, UL	1-1/4"	32	M10	84	3240	200
618530	FX Clevis Hanger M10, 1-1/2", MSS SP-58 & SP-69(Type 1), FM, UL	1-1/2"	40	M10	100	3240	200
618536	FX Clevis Hanger M10, 2", MSS SP-58 & SP-69(Type 1), FM, UL	2"	50	M10	114	3240	120
618542	FX Clevis Hanger M12, 2-1/2", MSS SP-58 & SP-69(Type 1), FM, UL	2-1/2"	65	M12	133	6000	70
618548	FX Clevis Hanger M12, 3", MSS SP-58 & SP-69(Type 1), FM, UL	3"	80	M12	152	6000	50
618554	FX Clevis Hanger M16, 4", MSS SP-58 & SP-69(Type 1), FM, UL	4"	100	M16	197	6360	45
618560	FX Clevis Hanger M16, 5", MSS SP-58 & SP-69(Type 1), FM, UL	5"	125	M16	248	6360	15
618566	FX Clevis Hanger M20, 6", MSS SP-58 & SP-69(Type 1), FM, UL	6"	150	M20	298	8630	10
618572	FX Clevis Hanger M20, 8", MSS SP-58 & SP-69(Type 1), FM, UL	8"	200	M20	357	8890	10
618578	FX Clevis Hanger M24, 10", MSS SP-58 & SP-69(Type 1)	10"	250	M24	436	16000	1
618584	FX Clevis Hanger M24, 12", MSS SP-58 & SP-69(Type 1)	12"	300	M24	508	16900	1
618590	FX Clevis Hanger M24, 14", MSS SP-58 & SP-69(Type 1)	14"	350	M24	556	18600	1
618596	FX Clevis Hanger M30, 16", MSS SP-58 & SP-69(Type 1)	16"	400	M30	630	20400	1
618602	FX Clevis Hanger M30, 18", MSS SP-58 & SP-69(Type 1)	18"	450	M30	701	21300	1
618608	FX Clevis Hanger M30, 20", MSS SP-58 & SP-69(Type 1)	20"	500	M30	761	21300	1
618614	FX Clevis Hanger M30, 22", MSS SP-58 & SP-69(Type 1)	22"	550	M30	850	21300	1
618620	FX Clevis Hanger M30, 24", MSS SP-58 & SP-69(Type 1)	24"	600	M30	923	21300	1

\*Available on request

## Special Clamps

Pipe Attachment consisting of a formed steel Strap and a knurled swivel nut

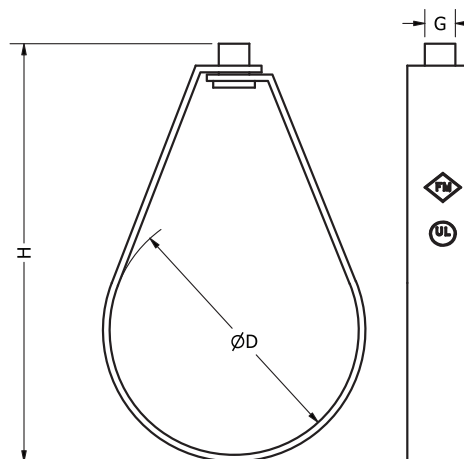
Material specifications	
<b>Material</b>	Carbon Steel
<b>Coatings</b>	Galvanised Hot dipped galvanized*, Powder coated*

### Applications

- Installation of suspended firefighting sprinkler pipes

### Features & Benefits

- Easy to install without any tools
- Approved by Factory Mutual (FM) and Underwriters Laboratories (UL)
- Complies with Manufacturer's Standardization Society - MSS-SP-58 and MSS-SP-69 (Type 10)
- Knurled swivel nut allows vertical pipe alignment during and after installation
- Can be provided with noise insulating high quality EPDM lining



### Select Variant

Article No.	Product Description	Pipe Size		G	H	Max. Reco. Static Load (Frec)	Pack Size
		(inch)	(mm)				
618006	FX Swivel Hanger, M10, 1/2", MSS SP-58 & SP-69(Type 10), UL	1/2"	15	M10	70	1334	300
618012	FX Swivel Hanger, M10, 3/4", MSS SP-58 & SP-69(Type 10), FM, UL	3/4"	20	M10	78	1334	300
618018	FX Swivel Hanger, M10, 1", MSS SP-58 & SP-69(Type 10), FM, UL	1"	25	M10	84	1334	250
618024	FX Swivel Hanger, M10, 1-1/4", MSS SP-58 & SP-69(Type 10), FM, UL	1 1/4"	32	M10	90	1334	200
618030	FX Swivel Hanger, M10, 1-1/2", MSS SP-58 & SP-69(Type 10), FM, UL	1 1/2"	40	M10	97	1334	200
618036	FX Swivel Hanger, M10, 2", MSS SP-58 & SP-69(Type 10), FM, UL	2"	50	M10	108	1334	150
618042	FX Swivel Hanger, M10, 2-1/2", MSS SP-58 & SP-69(Type 10), FM, UL	2 1/2"	65	M10	124	2334	150
618048	FX Swivel Hanger, M10, 3", MSS SP-58 & SP-69(Type 10), FM, UL	3"	80	M10	144	2334	100
618054	FX Swivel Hanger, M10, 3-1/2", MSS SP-58 & SP-69(Type 10), FM, UL	3 1/2"	90	M10	155	2600	100
618060	FX Swivel Hanger, M10, 4", MSS SP-58 & SP-69(Type 10), FM, UL	4"	100	M10	174	2890	100
618066	FX Swivel Hanger, M12, 5", MSS SP-58 & SP-69(Type 10), FM, UL	5"	125	M12	208	4445	50
618072	FX Swivel Hanger, M12, 6", MSS SP-58 & SP-69(Type 10), FM, UL	6"	150	M12	245	4445	50
618078	FX Swivel Hanger, M12, 8", MSS SP-58 & SP-69(Type 10), FM, UL	8"	200	M12	313	4445	30

\*Available on request



**Special Clamps**

U-shaped bolt with threaded ends

Material specifications	
<b>Material</b>	Carbon Steel
<b>Coatings</b>	Galvanised Hot dipped galvanized*, Powder coated*

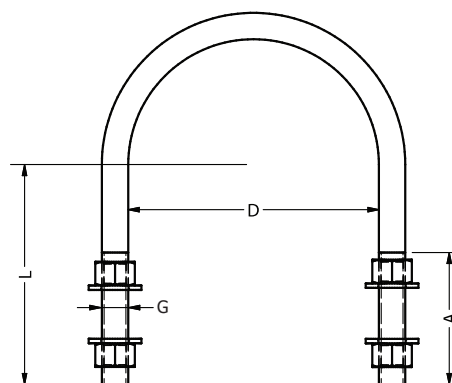


**Applications**

- Flexible and adjustable installation of heavy duty industrial and commercial pipes

**Features & Benefits**

- Complies with Manufacturer's Standardization Society - MSS-SP-58 and MSS-SP-69 (Type 24)
- Approved by Underwriters Laboratories (UL)
- One piece design enable high load carrying capacity
- Supplied together with two/four nuts and two washers
- Minimal contact surface between U-bolt and pipe



**Select Variant**

Article No.	Product Description	Pipe Size		G	L	A	D	Max. Reco. Static Load (Frec)	Pack Size
		(inch)	(mm)						
616300	FX U-Bolt, M10, 1/2", MSS SP-58 & SP-69 (Type 24), UL	1/2"	15	M10	59	50	22.2	4850	200
616310	FX U-Bolt, M10, 3/4", MSS SP-58 & SP-69 (Type 24), UL	3/4"	20	M10	68	50	28.0	4850	150
616320	FX U-Bolt, M10, 1", MSS SP-58 & SP-69 (Type 24), UL	1"	25	M10	73	50	34.9	4850	150
616330	FX U-Bolt, M10, 1 1/4", MSS SP-58 & SP-69 (Type 24), UL	1 1/4"	32	M10	73	64	43.6	4850	200
616340	FX U-Bolt, M10, 1 1/2", MSS SP-58 & SP-69 (Type 24), UL	1 1/2"	40	M10	76	64	49.5	4850	200
616350	FX U-Bolt, M10, 2", MSS SP-58 & SP-69 (Type 24), UL	2"	50	M10	83	64	61.9	4850	120
616360	FX U-Bolt, M10, 2 1/2", MSS SP-58 & SP-69 (Type 24), UL	2 1/2"	65	M10	78	51	77.7	4850	70
616370	FX U-Bolt, M10, 3", MSS SP-58 & SP-69 (Type 24), UL	3"	80	M10	86	51	90.5	4850	50
616373	FX U-Bolt, M12, 3", MSS SP-58 & SP-69 (Type 24), UL	3"	80	M12	102	76	90.5	8980	45
616380	FX U-Bolt, M10, 4", MSS SP-58 & SP-69 (Type 24), UL	4"	100	M10	98	51	115.9	4850	15
616383	FX U-Bolt, M12, 4", MSS SP-58 & SP-69 (Type 24), UL	4"	100	M12	114	76	115.9	8980	10
616390	FX U-Bolt, M10, 5", MSS SP-58 & SP-69 (Type 24), UL	5"	125	M10	116	57	142.9	4850	10
616393	FX U-Bolt, M12, 5", MSS SP-58 & SP-69 (Type 24), UL	5"	125	M12	127	76	142.9	8980	1
616400	FX U-Bolt, M12, 6", MSS SP-58 & SP-69 (Type 24), UL	6"	150	M12	129	57	171.5	8980	1
616403	FX U-Bolt, M16, 6", MSS SP-58 & SP-69 (Type 24), UL	6"	150	M16	156	85	171.5	14370	1
616410	FX U-Bolt, M12, 8", MSS SP-58 & SP-69 (Type 24), UL	8"	200	M12	154	57	222.3	8980	1
616413	FX U-Bolt, M16, 8", MSS SP-58 & SP-69 (Type 24), UL	8"	200	M16	181	85	222.3	14370	1
616420	FX U-Bolt, M12, 10", MSS SP-58 & SP-69 (Type 24), UL	10"	250	M12	192	64	276.2	8980	1
616423	FX U-Bolt, M16, 10", MSS SP-58 & SP-69 (Type 24), UL	10"	250	M16	184	64	276.2	14370	1
616426	FX U-Bolt, M20, 10", MSS SP-58 & SP-69 (Type 24), UL	10"	250	M20	213	102	276.2	21490	1
616430	FX U-Bolt, M20, 12", MSS SP-58 & SP-69 (Type 24), UL	12"	300	M20	216	70	327	21490	1
616433	FX U-Bolt, M22, 12", MSS SP-58 & SP-69 (Type 24), UL	12"	300	M22	244	102	327	29940	1

\*Available on request

## Special Clamps

Rubber support attachment around the insulated pipe installations

Material specifications	
Material	EPDM Rubber
Color	Black

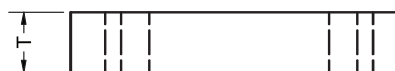
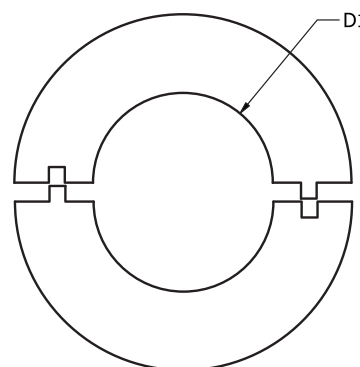


### Applications

- Installation of chilled water, condenser water and domestic hot / cold water pipes

### Features & Benefits

- Easy to Install due to tongue and groove design
- High load bearing capacity
- Dimensionally accurate as each piece is moulded
- Prevents insulation from crushing under high load and pressure
- Resistance against vapour diffusion



### Select Variant

Thickness [T] (mm)	Article No.							Product Description	Pipe Size (D1)		Pack Size (Nos)
	19	25	32	38	50	65	75		(inch)	(mm)	
	Ethylene Propylene Diene Monomer (EPDM)	619200	619238	619276	619314	619352	619390		619428	FX Rubber Support Insert, ½", EPDM	½"
	619202	619240	619278	619316	619354	619392	619430	FX Rubber Support Insert, ¾", EPDM	¾"	26.7	1
	619204	619242	619280	619318	619356	619394	619432	FX Rubber Support Insert, 1", EPDM	1"	33.4	1
	619206	619244	619282	619320	619358	619396	619434	FX Rubber Support Insert, 1 ¼", EPDM	1 ¼"	42.2	1
	619208	619246	619284	619322	619360	619398	619436	FX Rubber Support Insert, 1 ½", EPDM	1 ½"	48.2	1
	619210	619248	619286	619324	619362	619400	619438	FX Rubber Support Insert, 2", EPDM	2"	60.3	1
	619212	619250	619288	619326	619364	619402	619440	FX Rubber Support Insert, 2 ½", EPDM	2 ½"	73.0	1
	619214	619252	619290	619328	619366	619404	619442	FX Rubber Support Insert, 3", EPDM	3"	88.9	1
	619216	619254	619292	619330	619368	619406	619444	FX Rubber Support Insert, 4", EPDM	4"	114.3	1
	619218	619256	619294	619332	619370	619408	619446	FX Rubber Support Insert, 5", EPDM	5"	141.3	1
	619220	619258	619296	619334	619372	619410	619448	FX Rubber Support Insert, 6", EPDM	6"	168.3	1
	619222	619260	619298	619336	619374	619412	619450	FX Rubber Support Insert, 8", EPDM	8"	219.1	1
	619224	619262	619300	619338	619376	619414	619452	FX Rubber Support Insert, 10", EPDM	10"	273.0	1
	619226	619264	619302	619340	619378	619416	619454	FX Rubber Support Insert, 12", EPDM	12"	323.9	1
	619228	619266	619304	619342	619380	619418	619456	FX Rubber Support Insert, 14", EPDM	14"	355.6	1
	619230	619268	619306	619344	619382	619420	619458	FX Rubber Support Insert, 16", EPDM	16"	406.4	1
	619232	619270	619308	619346	619384	619422	619460	FX Rubber Support Insert, 18", EPDM	18"	457.2	1
	619234	619272	619310	619348	619386	619424	619462	FX Rubber Support Insert, 20", EPDM	20"	508.0	1
	619236	619274	619312	619350	619388	619426	619464	FX Rubber Support Insert, 24", EPDM	24"	609.6	1

## Special Clamps

Rubber support attachment around the insulated pipe installations

Material specifications	
Material	SBR/NR Rubber
Color	Black

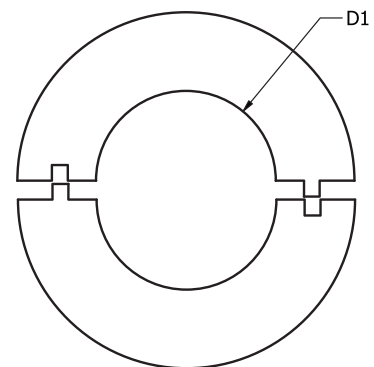


### Applications

- Installation of chilled water, condenser water and domestic hot / cold water pipes

### Features & Benefits

- Easy to Install due to tongue and groove design
- High load bearing capacity
- Dimensionally accurate as each piece is moulded
- Prevents insulation from crushing under high load and pressure
- Resistance against vapour diffusion



### Select Variant

	Thickness [T] (mm)	Article No.							Product Description	Pipe Size (D1)		Pack Size (Nos)
		19	25	32	38	50	65	75		(inch)	(mm)	
		Styrene-Butadiene Rubber (SBR)/ Nitrile Rubber (NR)	619201	619239	619277	619315	619353	619391		619429	FX Rubber Support Insert, ½", SBR	½"
	619203	619241	619279	619317	619355	619393	619431	FX Rubber Support Insert, ¾", SBR	¾"	26.7	1	
	619205	619243	619281	619319	619357	619395	619433	FX Rubber Support Insert, 1", SBR	1"	33.4	1	
	619207	619245	619283	619321	619359	619397	619435	FX Rubber Support Insert, 1 ¼", SBR	1 ¼"	42.2	1	
	619209	619247	619285	619323	619361	619399	619437	FX Rubber Support Insert, 1 ½", SBR	1 ½"	48.2	1	
	619211	619249	619287	619325	619363	619401	619439	FX Rubber Support Insert, 2", SBR	2"	60.3	1	
	619213	619251	619289	619327	619365	619403	619441	FX Rubber Support Insert, 2 ½", SBR	2 ½"	73.0	1	
	619215	619253	619291	619329	619367	619405	619443	FX Rubber Support Insert, 3", SBR	3"	88.9	1	
	619217	619255	619293	619331	619369	619407	619445	FX Rubber Support Insert, 4", SBR	4"	114.3	1	
	619219	619257	619295	619333	619371	619409	619447	FX Rubber Support Insert, 5", SBR	5"	141.3	1	
	619221	619259	619297	619335	619373	619411	619449	FX Rubber Support Insert, 6", SBR	6"	168.3	1	
	619223	619261	619299	619337	619375	619413	619451	FX Rubber Support Insert, 8", SBR	8"	219.1	1	
	619225	619263	619301	619339	619377	619415	619453	FX Rubber Support Insert, 10", SBR	10"	273.0	1	
	619227	619265	619303	619341	619379	619417	619455	FX Rubber Support Insert, 12", SBR	12"	323.9	1	
	619229	619267	619305	619343	619381	619419	619457	FX Rubber Support Insert, 14", SBR	14"	355.6	1	
	619231	619269	619307	619345	619383	619421	619459	FX Rubber Support Insert, 16", SBR	16"	406.4	1	
	619233	619271	619309	619347	619385	619423	619461	FX Rubber Support Insert, 18", SBR	18"	457.2	1	
	619235	619273	619311	619349	619387	619425	619463	FX Rubber Support Insert, 20", SBR	20"	508.0	1	
	619237	619275	619313	619351	619389	619427	619465	FX Rubber Support Insert, 24", SBR	24"	609.6	1	

Special Clamps

Support

Material specifications	
Material	Carbon Steel
Coatings	Galvanized, Hot dip Galvanized*

Applications

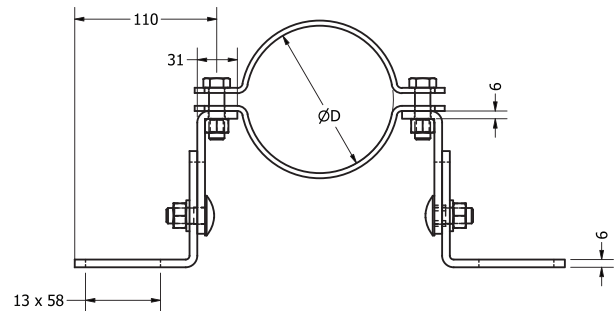
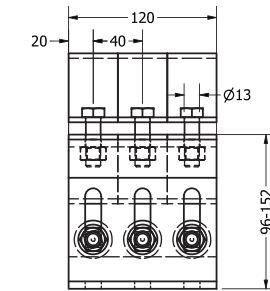
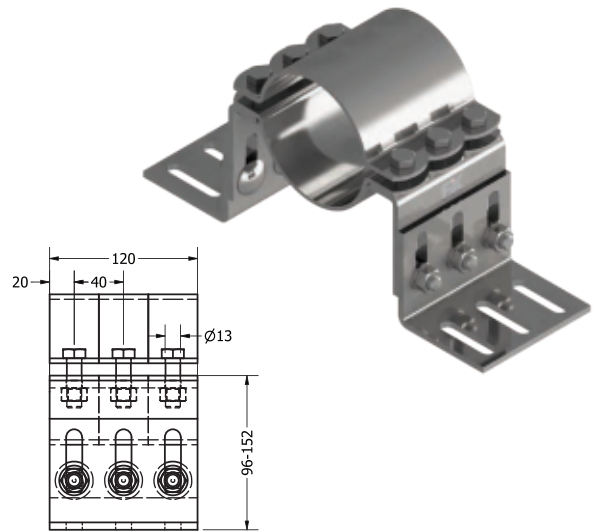
- Ideal pipeline anchor point when used with SRS Static clamp
- Height adjustable sub frame for anchor and expansion assemblies
- Installation of heavy pipes with large wall clearances

Features & Benefits

- Adjustable height & slope

The kit consists of:

- 4 Brackets pieces
- 3 SRS Static clamps\*\*
- 6 Coach/Carriage bolts M12
- 6 Hex nuts M12
- 6 Washers M12



Select Variant

Article No.	Product Description	Nominal Size Pipe Outer Diameter [D]		V	B	H	Pack Size
		(inch)	(mm)				
620000	FX SRS Static with Bracket, 2"	2	60.3	M12	140	53	1
620006	FX SRS Static with Bracket, 70 mm	-	70	M12	148	57	1
620012	FX SRS Static with Bracket, 2½"	2½	76.1	M12	154	60	1
620018	FX SRS Static with Bracket, 82.5 mm	-	82.5	M12	161	64	1
620024	FX SRS Static with Bracket, 3"	3	88.9	M12	168	67	1
620030	FX SRS Static with Bracket, 101.6 mm	-	101.6	M12	182	74	1
620036	FX SRS Static with Bracket, 108-110 mm	-	108-110	M12	188	78	1
620042	FX SRS Static with Bracket, 4"	4	114.3	M12	195	80	1
620048	FX SRS Static with Bracket, 125-127 mm	-	125-127	M12	206	86	1
620054	FX SRS Static with Bracket, 133 mm	-	133	M12	213	90	1
620060	FX SRS Static with Bracket, 5"	5	139.7	M12	220	93	1
620066	FX SRS Static with Bracket, 152.4 mm	-	152.4	M12	232	99	1
620072	FX SRS Static with Bracket, 159 mm	-	159	M12	239	103	1
620078	FX SRS Static with Bracket, 6"	6	165	M12	246	106	1
620084	FX SRS Static with Bracket, 168.3 mm	-	168.3	M12	248	107	1
620090	FX SRS Static with Bracket, 177.8 mm	-	177.8	M12	258	112	1
620096	FX SRS Static with Bracket, 212 mm	-	212	M12	293	130	1
620102	FX SRS Static with Bracket, 8"	8	219.1	M12	300	133	1
620108	FX SRS Static with Bracket, 244.5 mm	-	244.5	M12	326	146	1
620114	FX SRS Static with Bracket, 267 mm	-	267	M12	348	157	1
620120	FX SRS Static with Bracket, 273 mm	-	273	M12	354	160	1

\*Available on request

\*\*In combination with Brackets, a maximum of 3 SRS Static Clamps without lining or a maximum of 2 SRS Static Clamps with EPDM lining may be mounted per set of brackets.

## Special Clamps

Support

Material specifications	
<b>Material</b>	Carbon Steel
<b>Coatings</b>	Galvanized, Hot dip Galvanized*

### Applications

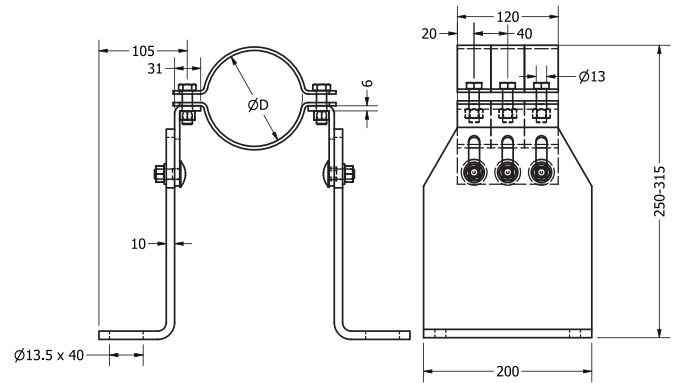
- Ideal pipeline anchor point clamp when used with Static Bracket

### Features & Benefits

- Ensure pipe expansion in desired direction
- Prevents unwanted moment of pipes
- Two clamping bolts offers enhanced flexibility in accomdating higher variation of pipe diameters
- Can be provided with noise insulating high quality EPDM lining

#### The kit consists of:

- 4 Heavy Brackets pieces
- 3 SRS Static clamps\*
- 6 Coach/Carriage bolts M12
- 6 Hex nuts M12
- 6 Washers M12



### Select Variant

Article No.	Product Description	Nominal Size Pipe Outer Diameter [D]		V	B	H	Pack Size
		(inch)	(mm)		(mm)	(mm)	(Nos)
620300	FX SRS Static with Bracket (Heavy), 2"	2	60.3	M12	140	53	1
620306	FX SRS Static with Bracket (Heavy), 70 mm	-	70	M12	148	57	1
620312	FX SRS Static with Bracket (Heavy), 2½"	2½	76.1	M12	154	60	1
620318	FX SRS Static with Bracket (Heavy), 82.5 mm	-	82.5	M12	161	64	1
620324	FX SRS Static with Bracket (Heavy), 3"	3	88.9	M12	168	67	1
620330	FX SRS Static with Bracket (Heavy), 101.6 mm	-	101.6	M12	182	74	1
620336	FX SRS Static with Bracket (Heavy), 108-110 mm	-	108-110	M12	188	78	1
620342	FX SRS Static with Bracket (Heavy), 4"	4	114.3	M12	195	80	1
620348	FX SRS Static with Bracket (Heavy), 125-127 mm	-	125-127	M12	206	86	1
620354	FX SRS Static with Bracket (Heavy), 133 mm	-	133	M12	213	90	1
620360	FX SRS Static with Bracket (Heavy), 5"	5	139.7	M12	220	93	1
620366	FX SRS Static with Bracket (Heavy), 152.4 mm	-	152.4	M12	232	99	1
620372	FX SRS Static with Bracket (Heavy), 159 mm	-	159	M12	239	103	1
620378	FX SRS Static with Bracket (Heavy), 6"	6	165	M12	246	106	1
620384	FX SRS Static with Bracket (Heavy), 168.3 mm	-	168.3	M12	248	107	1
620390	FX SRS Static with Bracket (Heavy), 177.8 mm	-	177.8	M12	258	112	1
620396	FX SRS Static with Bracket (Heavy), 212 mm	-	212	M12	293	130	1
620402	FX SRS Static with Bracket (Heavy), 8"	8	219.1	M12	300	133	1
620408	FX SRS Static with Bracket (Heavy), 244.5 mm	-	244.5	M12	326	146	1
620414	FX SRS Static with Bracket (Heavy), 267 mm	-	267	M12	348	157	1
620420	FX SRS Static with Bracket (Heavy), 273 mm	-	273	M12	354	160	1

\*Available on request

\*\*In combination with Heavy Brackets, a maximum of 3 SRS Static Clamps without lining or a maximum of 2 SRS Static Clamps with EPDM lining may be mounted per set of brackets.

**Special Clamps**

Pipe Attachment used to hold the pipe directly to a structure

Material specifications	
<b>Material</b>	DC01 or equivalent steel
<b>Coatings</b>	Galvanized, Hot dip Galvanized Powder Coated*

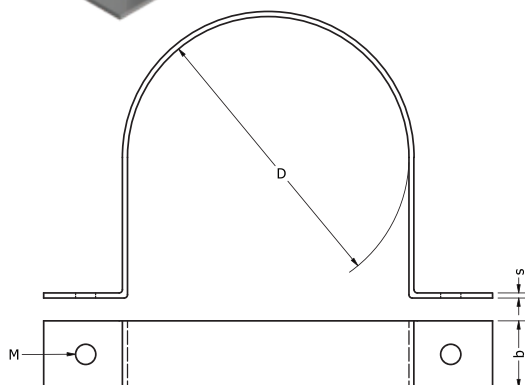


**Applications**

- Installation of plain or insulated pipes

**Features & Benefits**

- Designed to comply with Manufacturer's Standardization Society - MSS-SP-58, (Type 26) and SP-69
- Can be provided with noise insulating high quality EPDM lining



**Select Variant**

Article No.		Product Description	Pipe Size (D)		b x s	M	Max. Reco. Static Load (Frec) (N)	Box Quantity (pcs)
Galvanized (vz)	Hot Dipped Galvanised (fvz)		(inch)	(mm)				
617100	617101	FX Pipe Strap, ½"	½"	22	25x2.0	M10	5500	100
617110	617111	FX Pipe Strap, ¾"	¾"	28	25x2.0	M10	5500	100
617120	617121	FX Pipe Strap, 1"	1"	35	25x2.0	M10	5500	50
617130	617131	FX Pipe Strap, 1¼"	1¼"	40	25x2.0	M10	5500	50
617140	617141	FX Pipe Strap, 1½"	1½"	42	25x2.0	M10	5500	50
617150	617151	FX Pipe Strap, 1¾"	1¾"	48	25x2.0	M10	5500	50
617160	617161	FX Pipe Strap 50mm	-	50	25x2.0	M10	5500	50
617170	617171	FX Pipe Strap 54mm	-	54	25x2.0	M10	5500	50
617180	617181	FX Pipe Strap, 2"	2"	60	25x2.0	M10	5500	50
617190	617191	FX Pipe Strap 65mm	-	65	25x2.0	M10	5500	50
617200	617201	FX Pipe Strap 67mm	-	67	25x2.0	M10	5500	50
617210	617211	FX Pipe Strap, 2½"	2½"	75	25x3.0	M10	6500	50
617220	617221	FX Pipe Strap 82mm	-	82	25x3.0	M10	6500	50
617230	617231	FX Pipe Strap, 3"	3"	90	25x3.0	M10	6500	50
617240	617241	FX Pipe Strap, 3½"	3½"	100	25x3.0	M10	6500	50
617250	617251	FX Pipe Strap 108mm	-	108	25x3.0	M10	6500	50
617260	617261	FX Pipe Strap 110mm	-	110	25x3.0	M10	6500	50
617270	617271	FX Pipe Strap, 4"	4"	115	25x3.0	M10	6500	50
617280	617281	FX Pipe Strap 126mm	-	126	25x3.0	M10	6500	25
617290	617291	FX Pipe Strap, 5"	5"	140	25x3.0	M10	6500	25
617300	617301	FX Pipe Strap 148mm	-	148	25x3.0	M10	6500	25
617310	617311	FX Pipe Strap 155mm	-	155	25x3.0	M10	6500	25
617320	617321	FX Pipe Strap 160mm	-	160	25x3.0	M10	6500	25
617330	617331	FX Pipe Strap, 6"	6"	168	25x3.0	M12	6500	20
617340	617341	FX Pipe Strap 179mm	-	179	25x3.0	M12	6500	20
617350	617351	FX Pipe Strap 190mm	-	190	38x3.0	M12	9000	20
617360	617361	FX Pipe Strap 205mm	-	205	38x3.0	M12	9000	20
617370	617371	FX Pipe Strap, 8"	8"	219	38x3.0	M12	9000	1
617380	617381	FX Pipe Strap 230mm	-	230	38x3.0	M12	9000	1
617390	617391	FX Pipe Strap 241 mm	-	241	38x4.0	M12	13500	1
617400	617401	FX Pipe Strap 263mm	-	263	38x4.0	M12	13500	1

\*Available on request

## Special Clamps

Article No.		Product Description	Pipe Size (D)		b x s	M	Max. Reco. Static Load (Frec)	Box Quantity (pcs)
Galvanized (vz)	Hot Dipped Galvanised (fvz)		(inch)	(mm)				
617410	617411		FX Pipe Strap, 10"	10"	273	38x4.0	M16	13500
617420	617421	FX Pipe Strap 295mm	-	295	38x4.0	M16	13500	1
617430	617431	FX Pipe Strap, 12"	12"	323	38x4.0	M16	13500	1
617440	617441	FX Pipe Strap, 14"	14"	356	50x4.0	M16	19000	1
617450	617451	FX Pipe Strap 374mm	-	374	50x4.0	M16	19000	1
617460	617461	FX Pipe Strap, 16"	16"	406	50x4.0	M16	19000	1
617470	617471	FX Pipe Strap 432mm	-	432	50x4.0	M16	19000	1
617480	617481	FX Pipe Strap, 18"	18"	456	50x4.0	M16	19000	1
617490	617491	FX Pipe Strap 482mm	-	482	50x4.0	M16	19000	1
617500	617501	FX Pipe Strap, 20"	20"	508	50x4.0	M16	19000	1
617510	617511	FX Pipe Strap 533mm	-	533	50x4.0	M16	19000	1
617520	617521	FX Pipe Strap 559mm	-	559	50x4.0	M16	19000	1
617530	617531	FX Pipe Strap 583mm	-	583	50x4.0	M16	19000	1
617540	617541	FX Pipe Strap, 24"	24"	610	50x4.0	M16	19000	1
617550	617551	FX Pipe Strap 658mm	-	658	50x6.0	M16	24000	1
617560	617561	FX Pipe Strap 690mm	-	690	50x6.0	M16	24000	1
617570	617571	FX Pipe Strap 760mm	-	760	50x6.0	M16	24000	1
617580	617581	FX Pipe Strap 863mm	-	863	50x6.0	M16	24000	1
617590	617591	FX Pipe Strap 918mm	-	918	50x6.0	M16	24000	1

FXC Mounting Channels

FXC Mounting Channel Accessories

FXR Mounting Rails

FXR Mounting Rail Accessories

Pipe Clamps

Fixing & Fastening Systems

Ground Mounting Systems

FXT Heavy Rail Profiles

FXT Heavy Rail Profile Accessories

## Special Clamps

Pipe Attachment used to hold the pipe directly to a structure

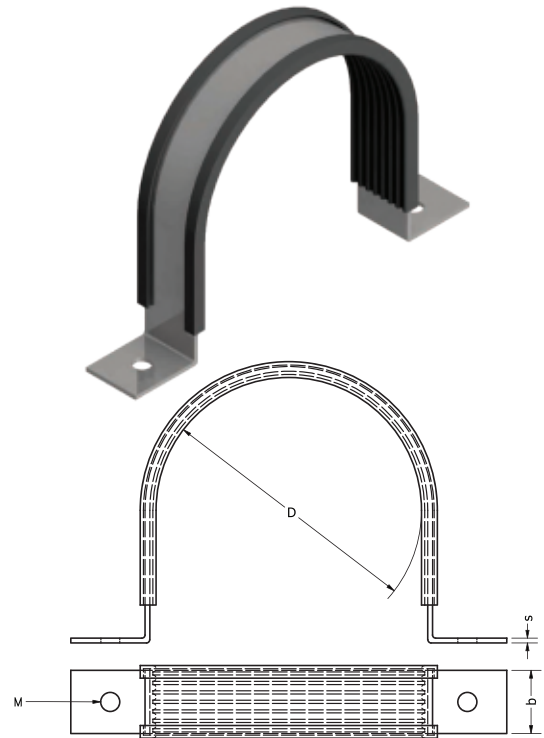
Material specifications	
<b>Material</b>	<b>Clamp:</b> DC01 or equivalent steel <b>Lining:</b> EPDM
<b>Coatings</b>	Galvanized, Hot dip Galvanized
<b>Lining Properties</b>	<b>Service Temperature</b> -20°C to +110°C <b>Noise Reduction</b> Up to 18dB (A)

### Applications

- Installation of plain or insulated pipes

### Features & Benefits

- Designed to comply with Manufacturer's Standardization Society - MSS-SP-58, (Type 26) and SP-69
- Provided with noise insulating high quality EPDM lining



### Select Variant

Article No.		Product Description	Pipe Size (D)		b x s	M	Max. Reco. Static Load (Frec)	Box Quantity (pcs)
Galvanized (vz)	Hot Dipped Galvanized (fvz)		(inch)	(mm)				
617105	617106		FX Pipe Strap with lining, ½"	½"	22	25x2.0	M10	5500
617115	617116	FX Pipe Strap with lining, ¾"	¾"	28	25x2.0	M10	5500	100
617125	617126	FX Pipe Strap with lining, 1"	1"	35	25x2.0	M10	5500	50
617135	617136	FX Pipe Strap with lining, 1¼"	1¼"	40	25x2.0	M10	5500	50
617145	617146	FX Pipe Strap with lining, 1½"	1½"	42	25x2.0	M10	5500	50
617155	617156	FX Pipe Strap with lining, 1½"	1½"	48	25x2.0	M10	5500	50
617165	617166	FX Pipe Strap with lining 50mm	-	50	25x2.0	M10	5500	50
617175	617176	FX Pipe Strap with lining 54mm	-	54	25x2.0	M10	5500	50
617185	617186	FX Pipe Strap with lining, 2"	2"	60	25x2.0	M10	5500	50
617195	617196	FX Pipe Strap with lining 65mm	-	65	25x2.0	M10	5500	50
617205	617206	FX Pipe Strap with lining 67mm	-	67	25x2.0	M10	5500	50
617215	617216	FX Pipe Strap with lining, 2½"	2½"	75	25x3.0	M10	6500	50
617225	617226	FX Pipe Strap with lining 82mm	-	82	25x3.0	M10	6500	50
617235	617236	FX Pipe Strap with lining, 3"	3"	90	25x3.0	M10	6500	50
617245	617246	FX Pipe Strap with lining, 3½"	3½"	100	25x3.0	M10	6500	50
617255	617256	FX Pipe Strap with lining 108mm	-	108	25x3.0	M10	6500	50
617265	617266	FX Pipe Strap with lining 110mm	-	110	25x3.0	M10	6500	50
617275	617276	FX Pipe Strap with lining, 4"	4"	115	25x3.0	M10	6500	50
617285	617286	FX Pipe Strap with lining 126mm	-	126	25x3.0	M10	6500	25
617295	617296	FX Pipe Strap with lining, 5"	5"	140	25x3.0	M10	6500	25
617305	617306	FX Pipe Strap with lining 148mm	-	148	25x3.0	M10	6500	25
617315	617316	FX Pipe Strap with lining 155mm	-	155	25x3.0	M10	6500	25
617325	617326	FX Pipe Strap with lining 160mm	-	160	25x3.0	M10	6500	25
617335	617336	FX Pipe Strap with lining, 6"	6"	168	25x3.0	M12	6500	20
617345	617346	FX Pipe Strap with lining 179mm	-	179	25x3.0	M12	6500	20
617355	617356	FX Pipe Strap with lining 190mm	-	190	38x3.0	M12	9000	20
617365	617366	FX Pipe Strap with lining 205mm	-	205	38x3.0	M12	9000	20
617375	617376	FX Pipe Strap with lining, 8"	8"	219	38x3.0	M12	9000	1
617385	617386	FX Pipe Strap with lining 230mm	-	230	38x3.0	M12	9000	1
617395	617396	FX Pipe Strap with lining 241mm	-	241	38x4.0	M12	13500	1
617405	617406	FX Pipe Strap with lining 263mm	-	263	38x4.0	M12	13500	1



## Special Clamps

Article No.		Product Description	Pipe Size (D)		b x s	M	Max. Reco. Static Load (Frec)	Box Quantity (pcs)
Galvanized (vz)	Hot Dipped Galvanised (fvz)		(inch)	(mm)				
617415	617416		FX Pipe Strap with lining, 10"	10"	273	38x4.0	M16	13500
617425	617426	FX Pipe Strap with lining 295mm	-	295	38x4.0	M16	13500	1
617435	617436	FX Pipe Strap with lining, 12"	12"	323	38x4.0	M16	13500	1
617445	617446	FX Pipe Strap with lining, 14"	14"	356	50x4.0	M16	19000	1
617455	617456	FX Pipe Strap with lining 374mm	-	374	50x4.0	M16	19000	1
617465	617466	FX Pipe Strap with lining, 16"	16"	406	50x4.0	M16	19000	1
617475	617476	FX Pipe Strap with lining 432mm	-	432	50x4.0	M16	19000	1
617485	617486	FX Pipe Strap with lining, 18"	18"	456	50x4.0	M16	19000	1
617495	617496	FX Pipe Strap with lining 482mm	-	482	50x4.0	M16	19000	1
617505	617506	FX Pipe Strap with lining, 20"	20"	508	50x4.0	M16	19000	1
617515	617516	FX Pipe Strap with lining 533mm	-	533	50x4.0	M16	19000	1
617525	617526	FX Pipe Strap with lining 559mm	-	559	50x4.0	M16	19000	1
617535	617536	FX Pipe Strap with lining 583mm	-	583	50x4.0	M16	19000	1
617545	617546	FX Pipe Strap with lining, 24"	24"	610	50x4.0	M16	19000	1
617555	617556	FX Pipe Strap with lining 658mm	-	658	50x6.0	M16	24000	1
617565	617566	FX Pipe Strap with lining 690mm	-	690	50x6.0	M16	24000	1
617575	617576	FX Pipe Strap with lining 760mm	-	760	50x6.0	M16	24000	1
617585	617586	FX Pipe Strap with lining 863mm	-	863	50x6.0	M16	24000	1
617595	617596	FX Pipe Strap with lining 918mm	-	918	50x6.0	M16	24000	1

# FIXING & FASTENING SYSTEMS

FXC Mounting Channels

FXC Mounting Channel Accessories

FXR Mounting Rails

FXR Mounting Rail Accessories

Pipe Clamps

Fixing & Fastening Systems

Ground Mounting Systems

FXT Heavy Rail Profiles

FXT Heavy Rail Profile Accessories

## Girder Fixings




Beam Clamp




| 91

## Fasteners




Threaded Rod

| 92




Hex Connector

| 93




Hex Bolt

| 93



Hex Bolt

| 94




Washer

| 95




Big Washer

| 95




Drop In Anchor

| 96



Through Bolt Anchor

| 97



Heavy Duty Anchor

| 98

German Engineered



# Beam Clamp

## Girder Fixings

Clamping element for fastening to structural beams



### Material specifications

<b>Material</b>	Cast iron
<b>Coatings</b>	Galvanized Black*

### Applications

- Installation of firefighting systems, heating, ventilation and air conditioning and plumbing services on structural I Beams

### Features & Benefits

- Complies with Manufacturer's Standardization Society - MSS-SP-58 and MSS-SP-69 (Type 19 and 23)
- Approved by Factory Mutual (FM) and Underwriters Laboratories (UL)
- Installation on steel beams without drilling or welding

### Select Variant

Article No.	Product Description	For Thread	Max. Recommended Load (Top)	Max. Recommended Load (Bottom)	Pack Size (Nos)
<b>Galvanized (vz)</b>					
660000	FX Beam Clamp M8, MSS SP-58 & SP-69 (Type 19 & 23)	M8	1000	1000	100
660005	FX Beam Clamp M10, MSS SP-58 & SP-69 (Type 19 & 23), FM, UL	M10	2220	1110	100
660010	FX Beam Clamp M12, MSS SP-58 & SP-69 (Type 19 & 23), FM, UL	M12	4220	3380	200

\*Available on request

# Threaded Rod

## Fasteners

Fastening element for long secured suspensions



### Material specifications

<b>Material</b>	Carbon Steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized

### Applications

- Suspending different building services

### Features & Benefits

- High quality 4.8 grade steel rods complying to DIN 976-1

### Select Variant

Article No.		Product Description	Diameter	Length (mm)	Pack Size (Nos)
Galvanized (vz)	Hot Dipped Galvanised (fvz)				
655000	655001	FX Threaded Rod, M8 x 1000mm, DIN 976-1	M8	1000	50
655005	655006	FX Threaded Rod, M8 x 2000mm, DIN 976-1	M8	2000	50
655008	655009	FX Threaded Rod, M8 x 3000mm, DIN 976-1	M8	3000	50
655011	655012	FX Threaded Rod, M10 x 1000mm, DIN 976-1	M10	1000	50
655015	655016	FX Threaded Rod, M10 x 2000mm, DIN 976-1	M10	2000	50
655018	655019	FX Threaded Rod, M10 x 3000mm, DIN 976-1	M10	3000	50
655021	655022	FX Threaded Rod, M12 x 1000mm, DIN 976-1	M12	1000	25
655025	655026	FX Threaded Rod, M12 x 2000mm, DIN 976-1	M12	2000	25
655027	655028	FX Threaded Rod, M12 x 3000mm, DIN 976-1	M12	3000	25
655030	655031	FX Threaded Rod, M16 x 1000mm, DIN 976-1	M16	1000	10
655035	655036	FX Threaded Rod, M16 x 2000mm, DIN 976-1	M16	2000	10
655037	655038	FX Threaded Rod, M16 x 3000mm, DIN 976-1	M16	3000	10

\*Available on request

# Hex Connector

## Fasteners

Connection element for longitudinal alignment of Threaded Rods

### Material specifications

<b>Material</b>	Steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized



### Applications

- Maintaining continuity of Threaded rods for Large suspensions (e.g., In Pre-Engineered building structures)

### Features & Benefits

- High quality Grade 8 steel connector complying to DIN 6334
- Two check holes for confirming the threaded ends' appropriate screw-in depth

### Select Variant

Article No.		Product Description	Diameter	Length (mm)	Pack Size (Nos)
Galvanized (vz)	Hot Dipped Galvanised (fvz)				
650010	650011	FX Hex Connector, M8 x 30, DIN 6334	M8	30	40
650020	650021	FX Hex Connector, M10 x 40, DIN 6334	M10	40	40
650030	650031	FX Hex Connector, M12 x 50, DIN 6334	M12	50	40
650040	650041	FX Hex Connector, M16 x 65, DIN 6334	M16	60	40
650050	650051	FX Hex Connector, M20 x 80, DIN 6334	M20	80	40

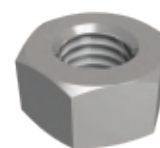
# Hex Nut

## Fasteners

Connector in a threaded connection

### Material specifications

<b>Material</b>	Steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized



### Applications

- Secured fastening of bolts in a threaded connection

### Features & Benefits

- High quality Grade 8 steel nut complying to DIN 934

### Select Variant

Article No.		Product Description	Diameter	Pack Size (Nos)
Galvanized (vz)	Hot Dipped Galvanised (fvz)			
652500	652501	FX Hex Nut, M6, DIN 934	M6	400
652505	652506	FX Hex Nut, M8, DIN 934	M8	300
652510	652511	FX Hex Nut, M10, DIN 934	M10	250
652515	652516	FX Hex Nut, M12, DIN 934	M12	150
652520	652521	FX Hex Nut, M16, DIN 934	M16	100

# Hex Bolt

## Fasteners

Element of threaded connection

### Material specifications

<b>Material</b>	Carbon Steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized



### Applications

- Realization of threaded connection

### Features & Benefits

- High quality 8.8 grade steel bolts complying to DIN 933

### Select Variant

Article No.		Product Description	Diameter	Length (mm)	Pack Size (Nos)
Galvanized (vz)	Hot Dipped Galvanised (fvz)				
650500	650501	FX Hexagonal Bolt, M6 x 20, DIN 933	M6	20	100
650510	650511	FX Hexagonal Bolt, M6 x 30, DIN 933	M6	30	100
650700	650701	FX Hexagonal Bolt, M8 x 16, DIN 933	M8	16	100
650705	650706	FX Hexagonal Bolt, M8 x 20, DIN 933	M8	20	100
650710	650711	FX Hexagonal Bolt, M8 x 25, DIN 933	M8	25	100
650715	650716	FX Hexagonal Bolt, M8 x 30, DIN 933	M8	30	100
650720	650721	FX Hexagonal Bolt, M8 x 35, DIN 933	M8	35	100
650725	650726	FX Hexagonal Bolt, M8 x 45, DIN 933	M8	45	100
650730	650731	FX Hexagonal Bolt, M8 x 55, DIN 933	M8	55	100
650735	650736	FX Hexagonal Bolt, M8 x 60, DIN 933	M8	60	100
650740	650741	FX Hexagonal Bolt, M8 x 75, DIN 933	M8	75	100
650745	650746	FX Hexagonal Bolt, M8 x 85, DIN 933	M8	85	100
650750	650751	FX Hexagonal Bolt, M8 x 100, DIN 933	M8	100	100
650755	650756	FX Hexagonal Bolt, M8 x 110, DIN 933	M8	110	100
650760	650761	FX Hexagonal Bolt, M8 x 120, DIN 933	M8	120	100
651000	651001	FX Hexagonal Bolt, M10 x 20, DIN 933	M10	20	100
651010	651011	FX Hexagonal Bolt, M10 x 25, DIN 933	M10	25	100
651020	651021	FX Hexagonal Bolt, M10 x 30, DIN 933	M10	30	100
651030	651031	FX Hexagonal Bolt, M10 x 40, DIN 933	M10	40	100
651040	651041	FX Hexagonal Bolt, M10 x 55, DIN 933	M10	55	100
651050	651051	FX Hexagonal Bolt, M10 x 60, DIN 933	M10	60	100
651060	651061	FX Hexagonal Bolt, M10 x 80, DIN 933	M10	80	100
651070	651071	FX Hexagonal Bolt, M10 x 90, DIN 933	M10	90	100
651080	651081	FX Hexagonal Bolt, M10 x 100, DIN 933	M10	100	100
651090	651091	FX Hexagonal Bolt, M10 x 120, DIN 933	M10	120	100
651500	651501	FX Hexagonal Bolt, M12 x 25, DIN 933	M12	25	100
651510	651511	FX Hexagonal Bolt, M12 x 30, DIN 933	M12	30	100
651520	651521	FX Hexagonal Bolt, M12 x 35, DIN 933	M12	35	100
651570	651571	FX Hexagonal Bolt, M12 x 60, DIN 933	M12	60	100
651590	651591	FX Hexagonal Bolt, M12 x 80, DIN 933	M12	80	50
651750	651751	FX Hexagonal Bolt, M16 x 45, DIN 933	M16	45	50
651770	651771	FX Hexagonal Bolt, M16 x 60, DIN 933	M16	60	50
651790	651791	FX Hexagonal Bolt, M16 x 80, DIN 933	M16	80	50
651810	651811	FX Hexagonal Bolt, M16 x 100, DIN 933	M16	100	50
651830	651831	FX Hexagonal Bolt, M16 x 120, DIN 933	M16	120	50
652000	652001	FX Hexagonal Bolt, M20 x 50, DIN 933	M20	50	50
652100	652101	FX Hexagonal Bolt, M24 x 60, DIN 933	M24	60	50

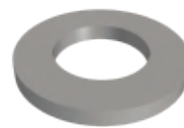
## Washer

### Fasteners

Auxiliary element in threaded connections

#### Material specifications

<b>Material</b>	Steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized



#### Applications

- Distribution of the the load from the nut or bolt over larger area

#### Features & Benefits

- High quality washer complying to DIN 125 A
- Reduces the probability of the joint loosening

#### Select Variant

Article No.		Product Description	Diameter	Outer Dia. (mm)	Thickness (mm)	Pack Size (Nos)
Galvanized (vz)	Hot Dipped Galvanised (fvz)					
653550	653551	FX Washer, M6, DIN 125 A	M6	12	1.6	200
653560	653561	FX Washer, M8, DIN 125 A	M8	16	1.6	200
653570	653571	FX Washer, M10, DIN 125 A	M10	20	2.0	200
653580	653581	FX Washer, M12, DIN 125 A	M12	24	2.5	200
653590	653591	FX Washer, M16, DIN 125 A	M16	30	3.0	100
653600	653601	FX Washer, M20, DIN 125 A	M20	37	3.0	100

## Big Washer

### Fasteners

Auxiliary element in threaded connections

#### Material specifications

<b>Material</b>	Steel
<b>Coatings</b>	Galvanized, Hot-Dip Galvanized



#### Applications

- Distribution of the the load from the nut or bolt over larger area of FXR Mounting Rail

#### Features & Benefits

- High quality washer for uniform distribution of load to FXR mounting rails
- Reduces the probability of the joint loosening

#### Select Variant

Article No.		Product Description	Diameter	Outer Dia. (mm)	Thickness (mm)	Pack Size (Nos)
Galvanized (vz)	Hot Dipped Galvanised (fvz)					
653060	653061	FX Big Washer, M6 x 18 x 1.6mm	M6	18	1.6	100
653065	653066	FX Big Washer, M6 x 24 x 2mm	M6	24	2.0	100
653070	653071	FX Big Washer, M6 x 36 x 2mm	M6	36	2.0	100
653075	653076	FX Big Washer, M6 x 40 x 2mm	M6	40	2.0	100
653080	653081	FX Big Washer, M8 x 24 x 2mm	M8	24	2.0	100
653085	653086	FX Big Washer, M8 x 36 x 2mm	M8	36	2.0	100
653090	653091	FX Big Washer, M8 x 40 x 2mm	M8	40	2.0	100
653095	653096	FX Big Washer, M10 x 24 x 2mm	M10	24	2.0	100
653100	653101	FX Big Washer, M10 x 29 x 2mm	M10	29	2.0	100
653105	653106	FX Big Washer, M10 x 30 x 3mm	M10	30	3.0	100
653110	653111	FX Big Washer, M10 x 36 x 2mm	M10	36	2.0	100
653115	653116	FX Big Washer, M10 x 40 x 2mm	M10	40	2.0	100
653120	653121	FX Big Washer, M10 x 40 x 3mm	M10	40	3.0	100
653125	653126	FX Big Washer, M12 x 36 x 2mm	M12	36	2.0	100
653130	653131	FX Big Washer, M12 x 40 x 2mm	M12	40	2.0	100
653135	653136	FX Big Washer, M12 x 40 x 3mm	M12	40	3.0	100
653140	653141	FX Big Washer, M16 x 40 x 3mm	M16	40	3.0	100

# Drop In Anchor

## Fasteners

Internal threaded anchor

### Material specifications

**Coatings** Galvanized



### Applications

- Anchorage of medium weight pipeline, ventilation ducts & sprinkler systems

### Features & Benefits

- European Technical Approval for non-cracked concrete ( Option 7)
- Approved for multiple use for non-structural applications
- Additional safety ensured by fire resistance classification of F120
- Versatile and suitable for attachment with screws or threaded rods
- Quick and easy installation with setting tool and hammer

### Select Variant

Article No.	Product Description	Internal Thread	Overall Length (mm)	ETA Option 7	Drill Hole Dia (mm)	Drilling depth (mm)	Usable thread length (mm)	Pack Size (Nos)	Approved load* (kN)	Installation torque (Nm)
Galvanized (vz)										
1740625	FX Drop In Anchor, M6x25	M6	25	•	8	25	8	100	5	4
1740825	FX Drop In Anchor, M8x25	M8	25		10	25	10	100	-	8
1740830	FX Drop In Anchor, M8x30	M8	30	•	10	30	10	100	3.5	8
1740840	FX Drop In Anchor, M8x40	M8	40	•	10	40	12	100	6	8
1741025	FX Drop In Anchor, M10x25	M10	25		12	25	12	50	-	15
1741030	FX Drop In Anchor, M10x30	M10	30	•	12	30	12	50	5.5	15
1741040	FX Drop In Anchor, M10x40	M10	40	•	12	40	15	50	7	15
1741225	FX Drop In Anchor, M12x25	M12	25		15	25	11	50	-	35
1741250	FX Drop In Anchor, M12x50	M12	50	•	15	50	16	50	10	35
1741251	FX Drop In Anchor, M12x50	M12	50		16	50	16	50	-	35
1741665	FX Drop In Anchor, M16x65	M16	65	•	20	65	22	25	12	60

\*The admissible loads apply for single anchors in concrete strength class  $\geq$  C20/25 (B25 for axially applied tension without the influence of axial and edge spacings. The safety coefficient according to ETA is included.



# Through Bolt Anchor

## Fasteners

Through Bolt Anchor for non cracked concrete

### Material specifications

**Coatings** Galvanized, Hot-Dip Galvanized\*

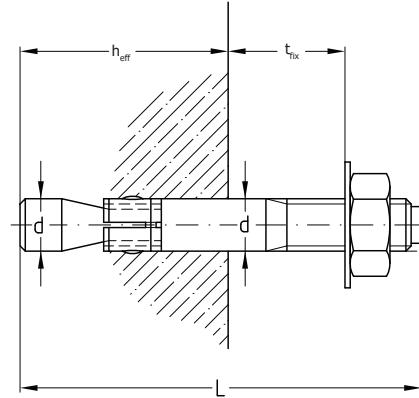


### Applications

- Anchorage of medium weight pipeline, ventilation ducts & sprinkler systems

### Features & Benefits

- European Technical Approval for non-cracked concrete (Option 7)
- Suitable for push through and stand-off installation
- Quick and easy installation



### Select Variant

Article No.	Product Description	Overall Length (mm)	Drill Hole Dia (d) (mm)	Drilling depth (mm)	Usable length (t <sub>fix</sub> ) (mm)	Effective anchorage depth h <sub>eff</sub> (mm)	Pack Size (Nos)	Approved tensile load* (kN)	Approved shear load* (kN)	Installation torque (Nm)	Wrench Size (Nm)
Galvanized (vz)											
3200805	FX Throughbolt ETA Option 7, M8/50/5, vz	50	8	45	5	27	100	5.7	6.1	15	13
3200806	FX Throughbolt ETA Option 7, M8/60/10, vz	60	8	50	10	30	100	5.7	6.1	15	13
3200808	FX Throughbolt ETA Option 7, M8/80/10, vz	80	8	65	10	50	100	5.7	6.1	15	13
3200809	FX Throughbolt ETA Option 7, M8/95/25, vz	85	8	65	15	50	100	5.7	6.1	15	13
3200811	FX Throughbolt ETA Option 7, M8/115/45, vz	95	8	65	25	50	100	5.7	6.1	15	13
3200816	FX Throughbolt ETA Option 7, M8/165/95, vz	115	8	65	45	50	100	5.7	6.1	15	13
3200885	FX Throughbolt ETA Option 7, M8/85/15, vz	165	8	65	95	50	50	5.7	6.1	15	13
3201006	FX Throughbolt ETA Option 7, M10/60/5, vz	60	10	55	5	33	100	7.6	10.1	30	17
3201007	FX Throughbolt ETA Option 7, M10/70/10, vz	70	10	60	10	35	100	7.6	10.1	30	17
3201009	FX Throughbolt ETA Option 7, M10/95/15, vz	95	10	80	15	58	100	7.6	10.1	30	17
3201011	FX Throughbolt ETA Option 7, M10/110/30, vz	110	10	80	30	58	50	7.6	10.1	30	17
3201012	FX Throughbolt ETA Option 7, M10/125/45, vz	125	10	80	45	58	50	7.6	10.1	30	17
3201014	FX Throughbolt ETA Option 7, M10/140/60, vz	140	10	80	60	58	50	7.6	10.1	30	17
3201016	FX Throughbolt ETA Option 7, M10/160/80, vz	160	10	80	80	58	50	7.6	10.1	30	17
3201018	FX Throughbolt ETA Option 7, M10/180/100, vz	180	10	80	100	58	25	7.6	10.1	30	17
3201208	FX Throughbolt ETA Option 7, M12/80/5, vz	80	12	70	5	49	50	9.5	13.7	50	19
3201211	FX Throughbolt ETA Option 7, M12/110/15, vz	110	12	90	15	68	50	9.5	13.7	50	19
3201212	FX Throughbolt ETA Option 7, M12/125/30, vz	125	12	90	30	68	50	9.5	13.7	50	19
3201214	FX Throughbolt ETA Option 7, M12/145/50, vz	145	12	90	50	68	25	9.5	13.7	50	19
3201216	FX Throughbolt ETA Option 7, M12/165/70, vz	165	12	90	70	68	50	9.5	13.7	50	19
3201218	FX Throughbolt ETA Option 7, M12/185/90, vz	185	12	90	90	68	50	9.5	13.7	50	19
3201609	FX Throughbolt ETA Option 7, M16/90/5, vz	90	16	80	5	50	25	11.9	15.7	100	24
3201611	FX Throughbolt ETA Option 7, M16/115/10, vz	115	16	100	10	70	25	11.9	15.7	100	24
3201613	FX Throughbolt ETA Option 7, M16/130/15, vz	130	16	110	15	80	25	11.9	15.7	100	24
3201614	FX Throughbolt ETA Option 7, M16/145/30, vz	145	16	110	30	80	25	11.9	15.7	100	24
3201616	FX Throughbolt ETA Option 7, M16/160/45, vz	160	16	110	45	80	25	11.9	15.7	100	24
3201618	FX Throughbolt ETA Option 7, M16/180/65, vz	180	16	110	65	80	25	11.9	15.7	100	24

\*Available on request

\*\*The admissible loads apply for single anchors in concrete strength class  $\geq$  C20/25 (B25 for axially applied tension and shear without the influence of axial and edge spacings. The safety coefficient according to ETA is included.

## Fasteners

Heavy Duty Anchor for cracked concrete

### Material specifications

#### Coatings

Galvanized,  
Hot-Dip Galvanized\*

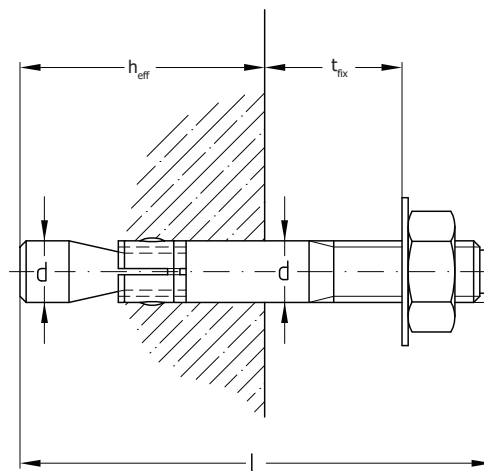


### Applications

- Anchorage of medium to heavy weight pipeline, ventilation ducts & sprinkler systems

### Features & Benefits

- European Technical Approval for cracked concrete (Option 1)
- Specially designed expansion clip ensures safer loads transfer into the concrete and enables high load-bearing capacity.
- Suitable for push through and stand-off installation
- Quick and easy installation



### Select Variant

Article No.	Product Description	Overall Length (mm)	Drill Hole Dia (d) (mm)	Drilling depth (mm)	Usable length (t <sub>fix</sub> ) (mm)	Effective anchorage depth h <sub>eff</sub> (mm)	Pack Size (Nos)	Approved tensile load* (kN)	Approved shear load* (kN)	Installation torque (Nm)	Wrench Size (Nm)
3100807	FX Heavy Duty Anchor, M8 x 70/5	70	8	65	5	48	100	1.7	4.4	20	13
3100808	FX Heavy Duty Anchor, M8 x 80/10	80	8	65	10	48	100	1.7	4.4	20	13
3100809	FX Heavy Duty Anchor, M8 x 95/25	95	8	65	25	48	100	1.7	4.4	20	13
3100811	FX Heavy Duty Anchor, M8 x 115/45	115	8	65	45	48	100	1.7	4.4	20	13
3100816	FX Heavy Duty Anchor, M8 x 165/95	165	8	65	95	48	50	1.7	4.4	20	13
3101009	FX Heavy Duty Anchor, M10 x 95/15/35	95	10	80/60	15/35	60/40	100	3.6	6.9	45	17
3101011	FX Heavy Duty Anchor, M10 x 110/30/50	110	10	80/60	30/50	60/40	50	3.6	6.9	45	17
3101012	FX Heavy Duty Anchor, M10 x 125/45/65	125	10	80/60	45/65	60/40	50	3.6	6.9	45	17
3101014	FX Heavy Duty Anchor, M10 x 140/60/80	140	10	80/60	60/80	60/40	50	3.6	6.9	45	17
3101016	FX Heavy Duty Anchor, M10 x 160/80/100	160	10	80/60	80/100	60/40	50	3.6	6.9	45	17
3101018	FX Heavy Duty Anchor, M10 x 180/100/120	180	10	80/60	100/120	60/40	25	3.6	6.9	45	17
3101211	FX Heavy Duty Anchor, M12 x 110/15	110	12	90	15	70	50	6.7	10	60	19
3101212	FX Heavy Duty Anchor, M12 x 125/30	125	12	90	30	70	50	6.7	10	60	19
3101214	FX Heavy Duty Anchor, M12 x 145/50	145	12	90	50	70	25	6.7	10	60	19
3101216	FX Heavy Duty Anchor, M12 x 165/70	165	12	90	70	70	50	6.7	10	60	19
3101218	FX Heavy Duty Anchor, M12 x 185/90	185	12	90	90	70	50	6.7	10	60	19
3101613	FX Heavy Duty Anchor, M16 x 130/15	130	16	110	15	80	25	9.5	16.2	80	24
3101614	FX Heavy Duty Anchor, M16 x 145/30	145	16	110	30	80	25	9.5	16.2	80	24
3101618	FX Heavy Duty Anchor, M16 x 180/60	180	16	110	60	80	25	9.5	16.2	80	24

\*Available on request

\*\*The admissible loads apply for single anchors in concrete strength class  $\geq$  C20/25 (B25 for axially applied tension and shear without the influence of axial and edge spacings. The safety coefficient according to ETA is included.

# GROUND MOUNTING SYSTEMS

FXC Mounting Channels

FXC Mounting Channel Accessories

FXR Mounting Rails

FXR Mounting Rail Accessories

Pipe Clamps


Fixing & Fastening Systems

Ground Mounting Systems

FXT Heavy Rail Profiles

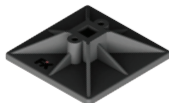
FXT Heavy Rail Profile Accessories

Mounting Foot



Roof Base

| 100



Roof Base Heavy

| 101


Mounting Block



Roof Block


| 102

Mounting Plate



Base Plate TR

| 103



Base Plate TP

| 104

# Roof Base

## Mounting Feet

Non-penetrative mounting base for flat roofs

### Material specifications

<b>Material</b>	High quality glass fibre reinforced polyamide with bonded rubber mat base
<b>Properties</b>	<b>Service Temperature:</b> -20 °C to +70 °C

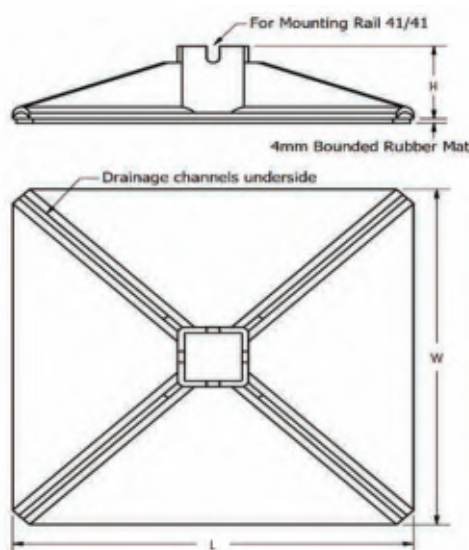


### Applications

- Non penetrative installation of pipes, ventilation ducts and cable trays on flat roofs

### Features & Benefits

- Enables optimum weight distribution over whole foot print
- UV Resistant High quality glass reinforced polyamide
- Quick and easy to Install
- Supplied together with Anti Vibration Rubber Mat
- Compatible with FXR 41|41 mounting rails
- Can be combined with other Fixotec support solutions for a complete and cost-effective package



### The Assembly consists of:

- 1 Roof base
- 1 Anti-slip mat  
(must be attached on the Roof base according to the installation instructions)

### Select Variant

Article No.	Product Description	FXR Mounting Rail	L (mm)	W (mm)	H (mm)	Max. Recommended Load (N)	Weight (Kg)
682000	FX Roof Base 300	41   41	300	300	65	2000	1.40
682010	FX Roof Base 450	41   41	450	450	65	2500	2.00

### Note:

- A range of materials are used as insulation on flat roofs, and vary significantly in their compressive strength, which must be checked before installation on site.
- The load bearing capacity of the roof structure must be taken into consideration with the extra load of the equipment to be placed on the assembly.

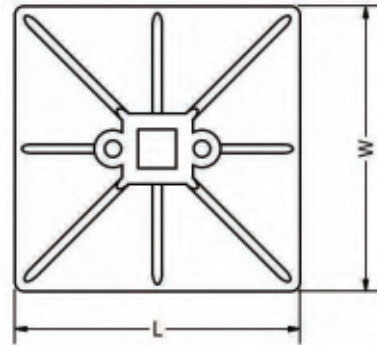
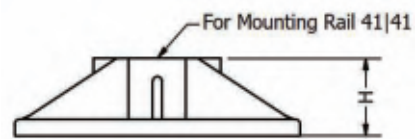
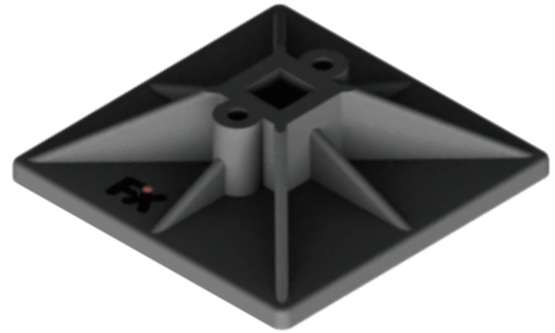
# Roof Base Heavy

## Mounting Feet

Non-penetrative heavy mounting base for flat roofs

### Material specifications

<b>Material</b>	High quality recycled polypropylene with bonded rubber mat base
<b>Properties</b>	<b>Service Temperature:</b> -20 °C to +70 °C Compressive Strength (ASTM D 685) > 35 Mpa Flexural Strength (ASTM D 790) > 16 Mpa Hardness (ASTM D2240) : 55



### Applications

- Non penetrative installation of large air handling units, condensers, chillers, generators etc. on flat roofs
- Non penetrative installation of heavy pipes, ventilation ducts and cable trays on flat roofs

### Features & Benefits

- Enables optimum weight distribution of heavy loads over whole foot print
- UV Resistant high quality polypropylene
- Quick and easy to Install
- Supplied together with Anti Vibration Rubber Mat
- Fixotec design assistance ensures maximum wind stability and effective load management
- Can be connected to FXR 41|41 Mounting Rails using FXR Base Adapter
- Can be combined with other Fixotec support solutions for a complete and cost-effective package

FXC Adapter 38|40

FXR Adapter 41|41



### The Assembly consists of:

- 1 Roof base
- 1 Anti-slip mat (must be attached on the Roof base according to the installation instructions)
- 1 FXR 41|41 Adapter

### Select Variant

Article No.	Product Description	FXR Mounting Rail	L (mm)	W (mm)	H (mm)	Max. Recommended Load (N)	Weight (Kg)
682020	FX Roof Base Heavy 300	41   41	302	302	75	20000	2.15
682030	FX Roof Base Heavy 450	41   41	455	455	75	20000	4.30

### Note:

- A range of materials are used as insulation on flat roofs, and vary significantly in their compressive strength, which must be checked before installation on site.
- The load bearing capacity of the roof structure must be taken into consideration with the extra load of the equipment to be placed on the assembly.

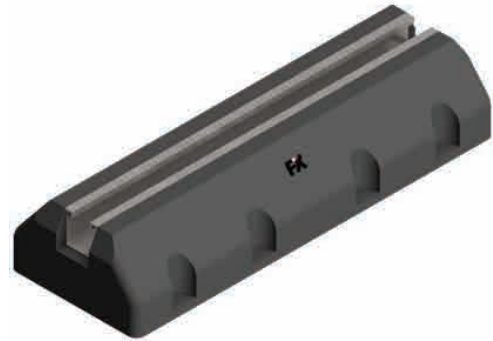
# Roof Block

## Mounting Block

Pre-fabricated, non-penetrative, mounting base for flat roofs

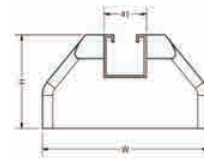
### Material specifications

<b>Material</b>	Recycled SBR
<b>Properties</b>	<b>Service Temperature:</b> -40 °C to +80 °C



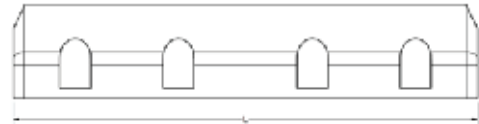
### Applications

- Non penetrative installation of Pipes, ventilation ducts and cable trays on flat roofs



### Features & Benefits

- Quick and easy to install
- Durable recycled rubber with increased stability
- Cost effective pre fabricated support systems
- Can be combined with other Fixotec support solutions for a complete and cost-effective package



### Select Variant

Article No.	Product Description	L (mm)	W (mm)	H (mm)	Max. Recommended Load (N)	Weight (Kg)
682100	FX Roof Block 250	250	183	100	1600	2.90
682110	FX Roof Block 400	400	183	100	2400	4.65
682120	FX Roof Block 600	600	183	100	4000	6.60
682130	FX Roof Block 1000	1000	183	100	6450	13.50

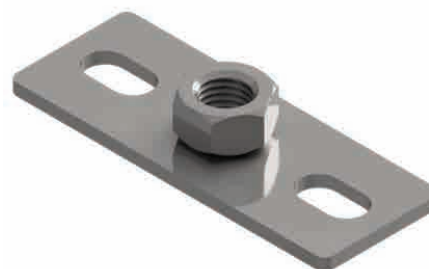
#### Note:

- A range of materials are used as insulation on flat roofs, and vary significantly in their compressive strength, which must be checked before installation on site.
- The load bearing capacity of the roof structure must be taken into consideration with the extra load of the equipment to be placed on the assembly.

# Base Plate TR

## Mounting Plates

Pre Fabricated mounting plate for installation of threaded rods



### Material specifications

<b>Material</b>	DD11 or equivalent steel
<b>Properties</b>	Galvanized, Hot-Dip Galvanized*, Zinc Magnesium*

### Applications

- Secured mounting of threaded rods

### Features & Benefits

- Quick and easy to Install
- Secure installation of threaded rods is ensured by an all-around welded hexagonal nut.

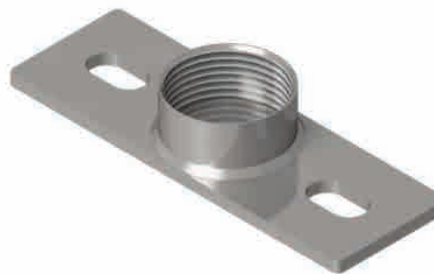
### Select Variant

Article No.	Product Description	L x W x H (mm)	G	H (mm)	E x F (mm)	C (mm)	Max. Recommended Load (N)
Galvanized (vz)							
680000	FX Base plate TR, 80 x 30 x 3 mm, M8	80x80x3	M8	M8	15	52	2200
680010	FX Base plate TR, 80 x 30 x 3 mm, M10	80x80x3	M10	M10	16	52	2200
680030	FX Base plate TR, 80 x 30 x 3 mm, M12	80x80x3	M12	M12	18	52	2200
680040	FX Base plate TR, 120 x 40 x 4 mm, M8	120x40x4	M8	M8	16	80	3000
680050	FX Base plate TR, 120 x 40 x 4 mm, M10	120x40x4	M10	M10	17	80	3000
680070	FX Base plate TR, 120 x 40 x 4 mm, M12	120x40x4	M12	M12	18	80	3000
680080	FX Base plate TR, 120 x 40 x 4 mm, M16	120x40x4	M16	M16	22	80	3000

# Base Plate TP

## Mounting Plates

Pre Fabricated mounting plate for installation of threaded pipes



### Material specifications

<b>Material</b>	DD11 or equivalent steel
<b>Properties</b>	Galvanized, Hot-Dip Galvanized*, Zinc Magnesium*

### Applications

- Secured mounting of threaded pipes

### Features & Benefits

- Quick and easy to Install
- Secure installation of threaded pipe is ensured by an all-around welded socket

### Select Variant

Article No.	Product Description	L x W x H (mm)	G	H (mm)	E x F (mm)	C (mm)	Max. Recommended Load (N)
Galvanized (vz)							
680090	FX Base plate TP, 120 x 40 x 4 mm, 1/2"	120x40x4	1/2"	19	12.5 x 14	80	5000
680100	FX Base plate TP, 120 x 40 x 4 mm, 3/4"	120x40x4	3/4"	21	12.5 x 14	80	5000
680110	FX Base plate TP, 120 x 40 x 4 mm, 1"	120x40x4	1"	25	12.5 x 14	80	5000



# FXT HEAVY RAIL PROFILES



FXT  
80 | 80

| 106



FXT  
100 | 100

| 107



FXT  
100 | 120

| 108



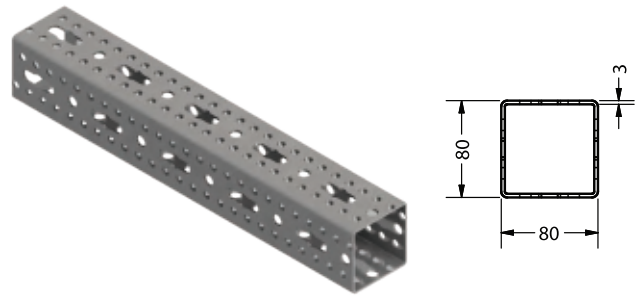
FXT  
100 | 150

| 109

**Heavy Rail Profiles**

Hollow Slotted Heavy Rail Profile

Material specifications	
<b>Material</b>	S235JR or equivalent steel
<b>Coatings</b>	Hot-Dip Galvanized



**Applications**

- Installation of heavy-duty ventilation ducts, plumbing & firefighting pipes and cable trays
- Replacement of traditional welded supports for safer and faster installation
- Primary support structure for installation of long runs of different MEP services.

**Features & Benefits**

- Slots on all four sides provides the flexibility of installation and standardizing accessories
- Hot-dip galvanized in accordance to EN 1461 assures higher corrosion protection and provides flexibility of using in Indoors as well as outdoors
- Wide range of mounting options in conjunction with FXT Heavy Rail Profile accessories
- High load bearing capacity owing to distinctive design and special material properties
- Functionally designed accessories reduces labour cost and installation time
- Better aesthetics appearance with use of FXT protection caps
- FXT Self Threading Bolts eliminates the need of nuts and washer

**Select Variant**

Article No.	Product Description	W (mm)	H (mm)	t (mm)	Length (mm)
603001	FXT Heavy Rail Profile 80 80 3, 6 m	80	80	3	6000
603004	FXT Heavy Rail Profile 80 80 3, 3 m	80	80	3	3000
603007	FXT Heavy Rail Profile 80 80 3, 2 m	80	80	3	2000

**Technical Data:**

Profile	Unit Weight	Cross Section Area	Torsional Sectional Modulus	Torsional Moment of Inertia	Moment of Inertia (cm <sup>4</sup> )		Section Modulus (cm <sup>3</sup> )	
	(Kg)	(mm <sup>2</sup> )	(cm <sup>3</sup> )	(cm <sup>4</sup> )	I <sub>y</sub> (cm <sup>4</sup> )	I <sub>z</sub> (cm <sup>4</sup> )	W <sub>y</sub> (cm <sup>3</sup> )	W <sub>z</sub> (cm <sup>3</sup> )
FXT 80 80	5.5	510	35	108	54	54	13	13

**Load bearing capacities of profiles for bending around the y-axis:**

Profile	Bending Direction	qz (kN/m)	Diagram 1: Uniformly distributed load qz over length L						Fz (kN)	Diagram 2: Point load Fz at center of length L					
	ZZ	L (m)	1000	1500	2000	2500	3000	3500	1000	1500	2000	2500	3000	3500	
FXT 80 80	ZZ		18.00	8.00	3.82	1.94	1.10	0.68	9.00	6.00	4.44	3.14	2.15	1.54	

**Load bearing capacities of profiles for bending around the x-axis:**

Profile	Bending Direction	Fz (kN)	Diagram 1: Point loads Fz at L/3 intervals						Fz (kN)	Diagram 2: Point loads Fz at L/4 intervals					
	ZZ	L (m)	1000	1500	2000	2500	3000	3500	1000	1500	2000	2500	3000	3500	
FXT 80 80	ZZ		6.83	4.50	2.82	1.80	1.21	0.87	4.50	3.00	2.00	1.20	0.87	0.60	

**Note:**

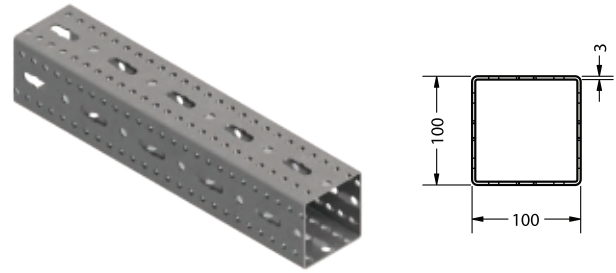
- The determined loads apply for static loads. Calculation based on Eurocode (EC3).
- The safety coefficient = 1.35 takes into account the partial and combination coefficients as well as the safety factor of the material.
- For the given values, the permissible steel stress and the maximum permissible deflection L/200 are not exceeded, taking the deadweight into consideration.

FXC Mounting Channels  
 FXR Mounting Rail Accessories  
 FXT Mounting Rail Accessories  
 Pipe Clamps  
 Fixing & Fastening Systems  
 Ground Mounting Systems  
 FXT Heavy Rail Profiles  
 FXT Heavy Rail Profile Accessories

**Heavy Rail Profiles**

Hollow Slotted Heavy Rail Profile

Material specifications	
<b>Material</b>	S235JR or equivalent steel
<b>Coatings</b>	Hot-Dip Galvanized



**Applications**

- Installation of heavy-duty ventilation ducts, plumbing & firefighting pipes and cable trays
- Replacement of traditional welded supports for safer and faster installation
- Primary support structure for installation of long runs of different MEP services.

**Features & Benefits**

- Slots on all four sides provides the flexibility of installation and standardizing accessories
- Hot-dip galvanized in accordance to EN 1461 assures higher corrosion protection and provides flexibility of using in Indoors as well as outdoors
- Wide range of mounting options in conjunction with FXT Heavy Rail Profile accessories
- High load bearing capacity owing to distinctive design and special material properties
- Functionally designed accessories reduces labour cost and installation time
- Better aesthetics appearance with use of FXT protection caps
- FXT Self Threading Bolts eliminates the need of nuts and washer

**Select Variant**

Article No.	Product Description	W (mm)	H (mm)	t (mm)	Length (mm)
<b>HDG (fvz)</b>					
603011	FXT Heavy Rail Profile 100 100 3, 6 m	100	100	3	6000
603014	FXT Heavy Rail Profile 100 100 3, 3 m	100	100	3	3000
603017	FXT Heavy Rail Profile 100 100 3, 2 m	100	100	3	2000

**Technical Data:**

Profile	Unit Weight	Cross Section Area	Torsional Sectional Modulus	Torsional Moment of Inertia	Moment of Inertia (cm <sup>4</sup> )		Section Modulus (cm <sup>3</sup> )	
	(Kg)	(mm <sup>2</sup> )	(cm <sup>3</sup> )	(cm <sup>4</sup> )	I <sub>y</sub> (cm <sup>4</sup> )	I <sub>z</sub> (cm <sup>4</sup> )	W <sub>y</sub> (cm <sup>3</sup> )	W <sub>z</sub> (cm <sup>3</sup> )
FXT 100   100	7	750	56	242	120	120	24	24

**Load bearing capacities of profiles for bending around the y-axis:**

Profile	Bending Direction	qz (kN/m) L (m)	Fz (kN) L (m)											
FXT 100   100	ZZ	1000 2000 3000 4000 5000 6000	32.00	8.00	2.51	1.03	0.50	0.26	16.00	7.90	4.70	2.5	1.50	0.99

**Load bearing capacities of profiles for bending around the x-axis:**

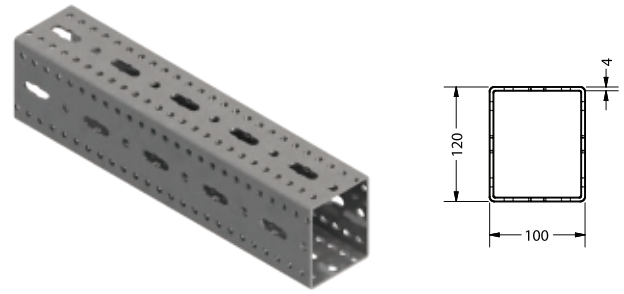
Profile	Bending Direction	Fz (kN) L (m)	Fz (kN) L (m)											
FXT 100   100	ZZ	1000 2000 3000 4000 5000 6000	12.00	5.90	2.71	1.52	0.91	0.58	8.00	3.90	1.96	1.10	0.65	0.40

**Note:**

- The determined loads apply for static loads. Calculation based on Eurocode (EC3).
- The safety coefficient = 1.35 takes into account the partial and combination coefficients as well as the safety factor of the material.
- For the given values, the permissible steel stress and the maximum permissible deflection L/200 are not exceeded, taking the deadweight into consideration.

**Heavy Rail Profiles**

Hollow Slotted Heavy Rail Profile



**Material specifications**

<b>Material</b>	S235JR or equivalent steel
<b>Coatings</b>	Hot-Dip Galvanized

**Applications**

- Installation of heavy-duty ventilation ducts, plumbing & firefighting pipes and cable trays
- Replacement of traditional welded supports for safer and faster installation
- Primary support structure for installation of long runs of different MEP services.

**Features & Benefits**

- Slots on all four sides provides the flexibility of installation and standardizing accessories
- Hot-dip galvanized in accordance to EN 1461 assures higher corrosion protection and provides flexibility of using in Indoors as well as outdoors
- Wide range of mounting options in conjunction with FXT Heavy Rail Profile accessories
- High load bearing capacity owing to distinctive design and special material properties
- Functionally designed accessories reduces labour cost and installation time
- Better aesthetics appearance with use of FXT protection caps
- FXT Self Threading Bolts eliminates the need of nuts and washer

**Select Variant**

Article No.	Product Description	W (mm)	H (mm)	t (mm)	Length (mm)
603021	FXT Heavy Rail Profile 100 120 4, 6 m	100	120	4	6000
603024	FXT Heavy Rail Profile 100 120 4, 3 m	100	120	4	3000
603027	FXT Heavy Rail Profile 100 120 4, 2 m	100	120	4	2000

**Technical Data:**

Profile	Unit Weight	Cross Section Area	Torsional Sectional Modulus	Torsional Moment of Inertia	Moment of Inertia (cm <sup>4</sup> )		Section Modulus (cm <sup>3</sup> )	
	(Kg)	(mm <sup>2</sup> )	(cm <sup>3</sup> )	(cm <sup>4</sup> )	I <sub>y</sub> (cm <sup>4</sup> )	I <sub>z</sub> (cm <sup>4</sup> )	W <sub>y</sub> (cm <sup>3</sup> )	W <sub>z</sub> (cm <sup>3</sup> )
FXT 100   120	11	1145	89	430	240	190	40	38

**Load bearing capacities of profiles for bending around the y-axis:**

Profile	Bending Direction	qz (kN/m)	Diagram 1				Fz (kN)	Diagram 2						
		L (m)					L (m)							
FXT 100   120	ZZ		1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
			53.00	13.30	4.70	2.00	0.95	0.54	26.00	13.30	8.08	5.20	3.20	2.10

**Load bearing capacities of profiles for bending around the x-axis:**

Profile	Bending Direction	Fz (kN)	Diagram 1				Fz (kN)	Diagram 2						
		L (m)					L (m)							
FXT 100   120	ZZ		1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
			20.00	9.90	5.50	3.00	1.80	1.20	13.40	6.60	3.90	2.20	1.30	0.86

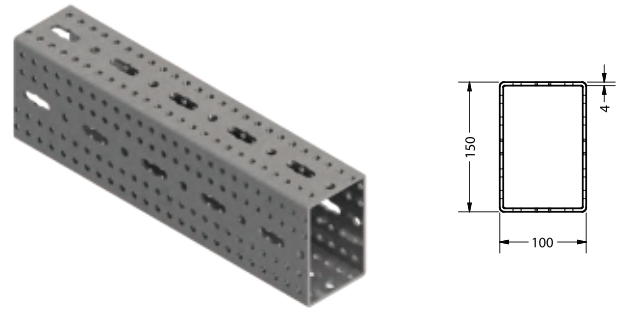
**Note:**

- The determined loads apply for static loads. Calculation based on Eurocode (EC3).
- The safety coefficient = 1.35 takes into account the partial and combination coefficients as well as the safety factor of the material.
- For the given values, the permissible steel stress and the maximum permissible deflection L/200 are not exceeded, taking the deadweight into consideration.

FXC Mounting Channels  
 FXR Mounting Channel Accessories  
 FXR Mounting Rails  
 FXR Mounting Rail Accessories  
 Pipe Clamps  
 Fixing & Fastening Systems  
 Ground Mounting Systems  
 FXT Heavy Rail Profiles  
 FXT Heavy Rail Profile Accessories

**Heavy Rail Profiles**

Hollow Slotted Heavy Rail Profile



**Material specifications**

<b>Material</b>	S235JR or equivalent steel
<b>Coatings</b>	Hot-Dip Galvanized

**Applications**

- Installation of heavy-duty ventilation ducts, plumbing & firefighting pipes and cable trays
- Replacement of traditional welded supports for safer and faster installation
- Primary support structure for installation of long runs of different MEP services.

**Features & Benefits**

- Slots on all four sides provides the flexibility of installation and standardizing accessories
- Hot-dip galvanized in accordance to EN 1461 assures higher corrosion protection and provides flexibility of using in Indoors as well as outdoors
- Wide range of mounting options in conjunction with FXT Heavy Rail Profile accessories
- High load bearing capacity owing to distinctive design and special material properties
- Functionally designed accessories reduces labour cost and installation time
- Better aesthetics appearance with use of FXT protection caps
- FXT Self Threading Bolts eliminates the need of nuts and washer

**Select Variant**

Article No.	Product Description	W (mm)	H (mm)	t (mm)	Length (mm)
603031	FXT Heavy Rail Profile 100 150 4, 6 m	100	150	4	6000
603034	FXT Heavy Rail Profile 100 150 4, 3 m	100	150	4	3000
603037	FXT Heavy Rail Profile 100 150 4, 2 m	100	150	4	2000

**Technical Data:**

Profile	Unit Weight	Cross Section Area	Torsional Sectional Modulus	Torsional Moment of Inertia	Moment of Inertia (cm <sup>4</sup> )		Section Modulus (cm <sup>3</sup> )	
	(Kg)	(mm <sup>2</sup> )	(cm <sup>3</sup> )	(cm <sup>4</sup> )	I <sub>y</sub> (cm <sup>4</sup> )	I <sub>z</sub> (cm <sup>4</sup> )	W <sub>y</sub> (cm <sup>3</sup> )	W <sub>z</sub> (cm <sup>3</sup> )
FXT 100   150	12	1235	112	618	400	210	50	40

**Load bearing capacities of profiles for bending around the y-axis:**

Profile	Bending Direction	qz (kN/m)	L (m)						Fz (kN)	L (m)					
FXT 100   150	ZZ		1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	
			71.00	17.80	7.90	3.50	1.75	0.97	35.50	17.80	11.60	8.70	5.40	3.60	

**Load bearing capacities of profiles for bending around the x-axis:**

Profile	Bending Direction	Fz (kN)	L (m)						Fz (kN)	L (m)					
FXT 100   150	ZZ		1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	
			26.00	13.30	8.80	5.20	3.10	2.10	17.90	8.90	5.90	3.60	2.30	1.50	

**Note:**

- The determined loads apply for static loads. Calculation based on Eurocode (EC3).
- The safety coefficient = 1.35 takes into account the partial and combination coefficients as well as the safety factor of the material.
- For the given values, the permissible steel stress and the maximum permissible deflection L/200 are not exceeded, taking the deadweight into consideration.

# FXC MOUNTING CHANNEL ACCESSORIES

FXC Mounting  
Channels

FXC Mounting  
Channel Accessories

FXR Mounting  
Rails

FXR Mounting  
Rail Accessories

Pipe Clamps

Fixing & Fastening  
Systems

Ground Mounting  
Systems

FXC Heavy Rail  
Profiles

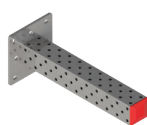
FXC Heavy Rail  
Profile Accessories

## Brackets



FXT  
Angle  
Bracket

| 111



FXT  
Cantilever  
Bracket

| 112



FXC  
Mounting  
Angle 90

| 113



FXT  
Flat  
Connector

| 114



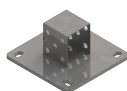
FXT  
Saddle  
Flange

| 115



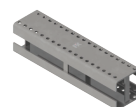
FXT  
Variable Saddle  
Flange

| 116



FXT  
Base  
Flange

| 117



FXC  
Longitudinal  
Connector

| 118



FXT  
Cross  
Connector

| 119



FXT  
Girder  
Cleat

| 120



FXT  
Self Threading  
Bolt

| 121



FXT  
Protection  
Cap

| 121

## Connectors

## Accessories

# FXT Angle Bracket

## Brackets

Supporting bracket for FXT Heavy Rail Profiles

### Material specifications

<b>Material</b>	S235JR or equivalent steel
<b>Coatings</b>	Hot-Dip Galvanized

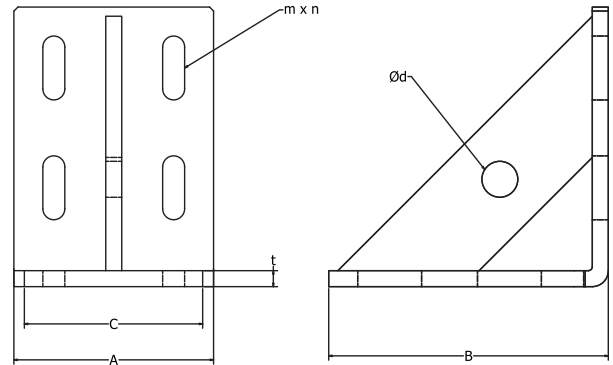


### Applications

- Building frame structures using FXT Heavy Rail Profiles
- Structural connection of FXT Heavy Rail Profiles with any supporting material

### Features & Benefits

- Easy to install with FXT Self threading bolts
- Strengthening of FXT Heavy Rail Profile connections
- High load bearing capacity owing to special material properties and design
- Hot-dip galvanized in accordance to EN 1461 assures higher corrosion protection and provides flexibility of using in Indoors as well as outdoors



### Select Variant

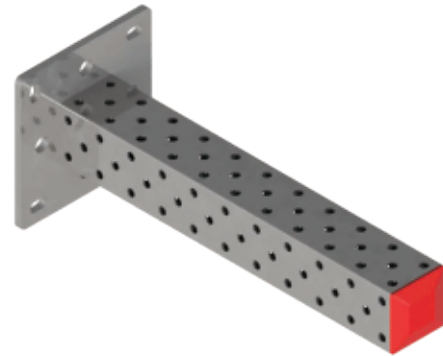
Article No.	Product Description	FXT Heavy Rail Profile	A (mm)	B (mm)	C (mm)	Ø d (mm)	m x n (mm)	t (mm)
637351	FXT Angle Bracket 80x140x6	80 80	80	140	-	18	11 x 32	6
637361	FXT Angle Bracket 100x140x80x6	80 80, 100 100	100	140	80	18	11 x 32	6
637371	FXT Angle Bracket 100x140x8	100 100, 100 120, 100 150	100	140	-	14	11 x 32	8
637381	FXT Angle Bracket 120x140x100x8	100 100, 100 120, 100 150	120	140	100	18	11 x 32	8
637391	FXT Angle Bracket 120x140x120x8	100 120	120	140	120	18	11 x 32	8

# FXT Cantilever Bracket

## Brackets

Pre Fabricated Cantilever Bracket

Material specifications	
Material	S235JR or equivalent steel
Coatings	Hot-Dip Galvanized

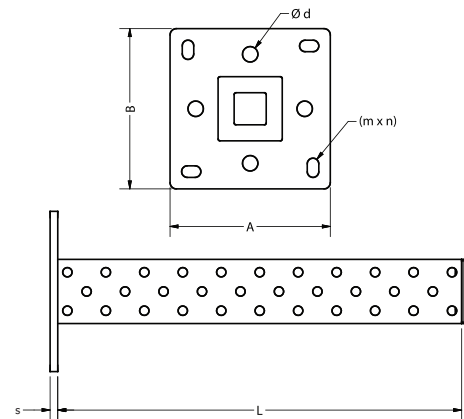


### Applications

- Installation of pipelines in industrial construction, plant building construction and heavy-duty service as a cantilever support structure
- Supporting structures for heavy suspended services

### Features & Benefits

- Easy to install with FXT Self threading bolts
- Available in variable lengths (Upto 1.500 m) for supporting different services installations
- High load bearing capacity owing to special material properties and design
- Hot-dip galvanized in accordance to EN 1461 assures higher corrosion protection and provides flexibility of using in Indoors as well as outdoors



### Select Variant

Article No.	Product Description	FXT Heavy Rail Profile	L (mm)	A (mm)	B (mm)	s (mm)	m x n (mm)	Ø d (mm)
636001	FXT Cantilever Bracket, 80 80 3, 500 mm	80 80	500	200	200	10	14 X 25	20
636011	FXT Cantilever Bracket, 80 80 3, 1000 mm	80 80	1000	200	200	10	14 X 25	20
636021	FXT Cantilever Bracket, 80 80 3, 1500 mm	80 80	1500	200	200	10	14 X 25	20
636031	FXT Cantilever Bracket, 100 100 3, 500 mm	100 100	500	250	250	12	18 X 30	24
636041	FXT Cantilever Bracket, 100 100 3, 1000 mm	100 100	1000	250	250	12	18 X 30	24
636051	FXT Cantilever Bracket, 100 100 3, 1500 mm	100 100	1500	250	250	12	18 X 30	24
636061	FXT Cantilever Bracket, 100 120 4, 500 mm	100 120	500	250	250	12	18 X 30	24
636071	FXT Cantilever Bracket, 100 120 4, 1000 mm	100 120	1000	250	250	12	18 X 30	24
636081	FXT Cantilever Bracket, 100 120 4, 1500 mm	100 120	1500	250	250	12	18 X 30	24
636091	FXT Cantilever Bracket, 100 150 4, 500 mm	100 150	500	300	300	12	22 X 32	24
636101	FXT Cantilever Bracket, 100 150 4, 1000 mm	100 150	1000	300	300	12	22 X 32	24
636111	FXT Cantilever Bracket, 100 150 4, 1500 mm	100 150	1500	300	300	12	22 X 32	24

### Load bearing capacities of profiles for bending around the y-axis:

Profile	Length (mm)	qz (kN/m) L (m)	Fz (kN) L (m)	Fz (kN) L (m)
FXT 80 80 3	500	4.10	8.20	11.27
FXT 80 80 3	1000	2.24	4.48	3.24
FXT 80 80 3	1500	1.34	2.68	1.32
FXT 100 100 3	500	5.35	10.70	14.65
FXT 100 100 3	1000	3.12	6.20	4.20
FXT 100 100 3	1500	1.96	3.92	1.72
FXT 100 120 4	500	8.16	16.32	17.20
FXT 100 120 4	1000	4.45	8.90	6.13
FXT 100 120 4	1500	2.64	5.28	2.75
FXT 100 150 4	500	9.69	19.38	19.05
FXT 100 150 4	1000	5.28	10.56	6.94
FXT 100 150 4	1500	3.20	6.40	3.72



# FXT Mounting Angle 90

## Connectors

Connection element for 90° connections of FXT Heavy Rail Profiles

### Material specifications

<b>Material</b>	S235JR or equivalent steel
<b>Coatings</b>	Hot-Dip Galvanized

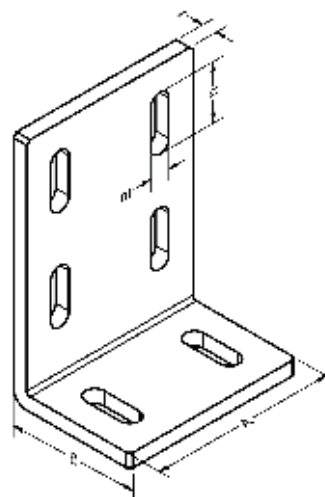


### Applications

- Building heavy duty frame structures using FXT Heavy Rail Profiles
- Structural connection of FXT Heavy Rail Profiles
- Connecting FXT Heavy Rail Profiles at right angles

### Features & Benefits

- Quick and efficient connections of heavy support structures
- Creation of rigid structures without welding
- High load bearing capacity owing to special material properties and design
- Hot-dip galvanized in accordance to EN 1461 assures higher corrosion protection and provides flexibility of using in Indoors as well as outdoors



### Select Variant

Article No.	Product Description	FXT Heavy Rail Profile	A (mm)	B (mm)	Ø d (mm)	m x n (mm)	t (mm)
639301	FXT Mounting Angle 90°, (1+1)	80 80	80	70	-	11 x 32	6
639311	FXT Mounting Angle 90°, (2+1), 80 80	80 80	100	70	-	11 x 32	6
639321	FXT Mounting Angle 90° (2+1), 100 100, 100 120, 100 150	100 100, 100 120, 100 150	100	70	14	11 x 32	8

# FXT Flat Connector

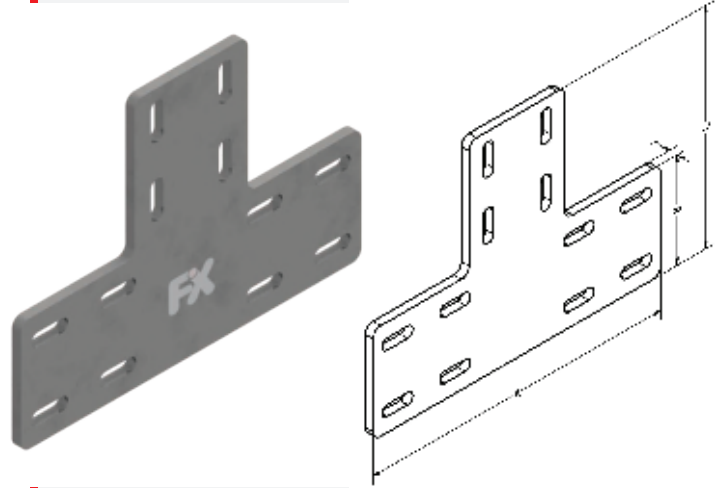
## Connectors

Fixing element for Inplane connection of FXT Heavy Rail Profiles

### Material specifications

<b>Material</b>	S235JR or equivalent steel
<b>Coatings</b>	Hot-Dip Galvanized

### FXT Flat Connector - T



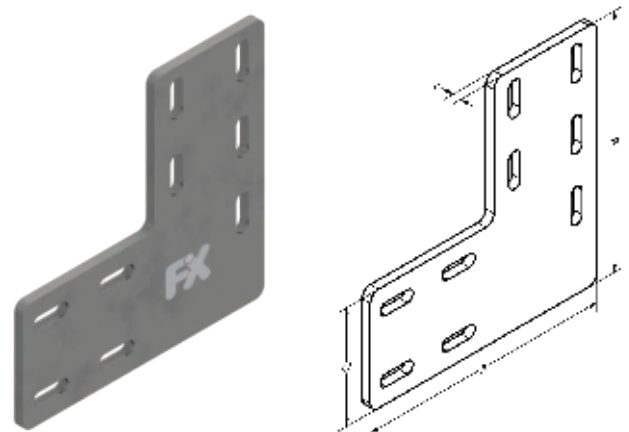
### Applications

- Inplane structural connections of FXT Heavy Rail Profiles
- Building heavy duty frame structures using FXT Heavy Rail Profiles

### Features & Benefits

- Ensuring reliable connection of flat and spatial fastening systems
- Quick and efficient connections of heavy support structures
- Creation of rigid structures without welding
- High load bearing capacity owing to special material properties and design
- Hot-dip galvanized in accordance to EN 1461 assures higher corrosion protection and provides flexibility of using in Indoors as well as outdoors

### FXT Flat Connector - L



### Select Variant

Article No.	Product Description	FXT Heavy Rail Profile	A (mm)	B (mm)	C (mm)	t (mm)
639501	FXT Flat Connector T, 80 80	80 80	300	80	200	6
639511	FXT Flat Connector T, 100 100	100 100	300	100	220	8
639521	FXT Flat Connector L, 80 80	80 80	200	200	80	6
639531	FXT Flat Connector L, 100 100	100 100	220	220	100	8

# FXT Saddle Flange

## Connectors

Supporting flange for FXT Heavy Rail Profiles

### Material specifications

<b>Material</b>	S235JR or equivalent steel
<b>Coatings</b>	Hot-Dip Galvanized

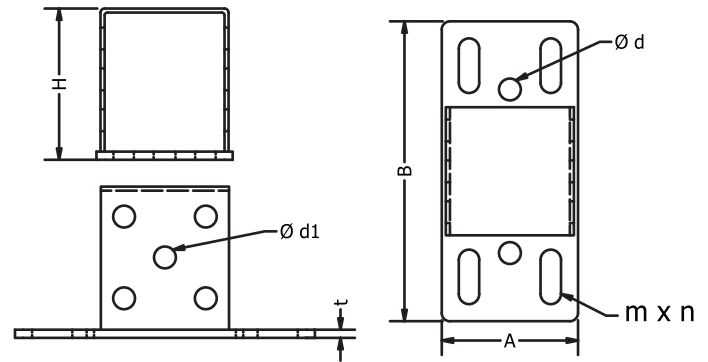


### Applications

- Structural connection of FXT Heavy Rail Profiles with any supporting material
- Allows for individual creation of cantilever arms

### Features & Benefits

- Provides higher torsional and bending rigidity for FXT Heavy Rail Profiles
- Simple installation by inserting the FXT Heavy Rail Profile in the saddle
- Allows lateral and vertical adjustment of FXT Heavy Rail Profiles with reliable fastening
- High load bearing capacity owing to special material properties and design
- Hot-dip galvanized in accordance to EN 1461 assures higher corrosion protection and provides flexibility of using in Indoors as well as outdoors



### Select Variant

Article No.	Product Description	FXT Heavy Rail Profile	A (mm)	B (mm)	Ø d (mm)	Ø d1 (mm)	m x n (mm)	t (mm)	H (mm)
639201	FXT Saddle Flange, 80 80	80 80	80	190	13	14	11 X 32	6	105
639211	FXT Saddle Flange, 100 100	100 100	100	210	13	14	11 X 32	8	125
639221	FXT Saddle Flange, 100 120	100 120	100	230	13	14	11 X 32	8	145

# FXT Variable Saddle Flange

## Connectors

Variable supporting flange for FXT Heavy Rail Profiles

### Material specifications

<b>Material</b>	S235JR or equivalent steel
<b>Coatings</b>	Hot-Dip Galvanized

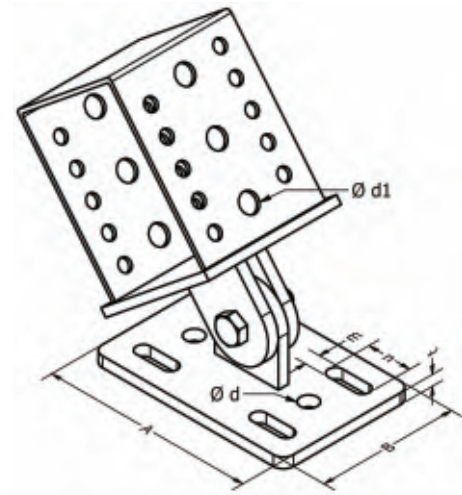


### Applications

- Ideal for bracing installation for FXT Heavy Rail Profile structures and seismic support installations
- Structural connection of FXT Heavy Rail Profiles with any supporting material

### Features & Benefits

- Increased flexibility during installation
- Prefabricated for rapid installation
- Secured anchoring of FXT Heavy Rail Profiles with base
- High load bearing capacity owing to special material properties and design
- Hot-dip galvanized in accordance to EN 1461 assures higher corrosion protection and provides flexibility of using in Indoors as well as outdoors



### Select Variant

Article No.	Product Description	FXT Heavy Rail Profile	A (mm)	B (mm)	t (mm)	Ød (mm)	Ød1 (mm)	mxn (mm)	t (mm)
639801	FXT Variable Saddle Flange, 80 80	80 80	150	80	6	13	14	11x32	6
639811	FXT Variable Saddle Flange, 80 80, Heavy	80 80	200	200	10	-	14	14x25	10
639821	FXT Variable Saddle Flange, 100 100	100 100	150	100	8	13	14	11x32	8
639831	FXT Variable Saddle Flange, 100 100, Heavy	100 100	250	250	12	18	14	18x30	12
639841	FXT Variable Saddle Flange, 100 120	100 120	150	100	8	13	14	11x32	8
639851	FXT Variable Saddle Flange, 100 120, Heavy	100 120	250	250	12	18	14	18x30	12

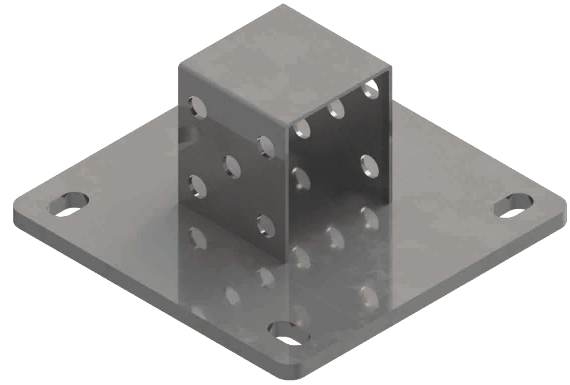
# FXT Base Flange

## Connectors

Supporting base flange for FXT Heavy Rail Profiles

### Material specifications

<b>Material</b>	S235JR or equivalent steel
<b>Coatings</b>	Hot-Dip Galvanized

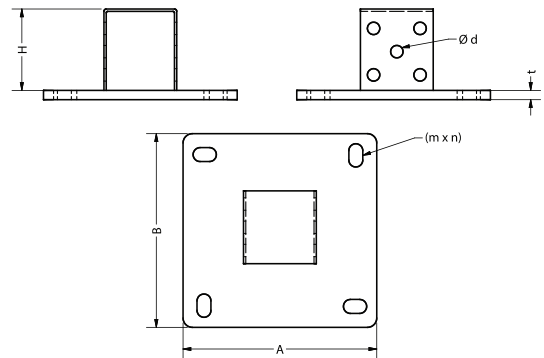


### Applications

- Secured mounting of FXT Heavy Rail Profiles

### Features & Benefits

- Increased flexibility during installation
- Ease of installation with less components
- Pre-assembled for rapid installation
- High load bearing capacity owing to special material properties and design
- Hot-dip galvanized in accordance to EN 1461 assures higher corrosion protection and provides flexibility of using in Indoors as well as outdoors



### Select Variant

Article No.	Product Description	FXT Heavy Rail Profile	A (mm)	B (mm)	Ø d (mm)	m x n (mm)	t (mm)	H (mm)
639001	FXT Base Flange, 80 80	80 80	200	200	14	14 X 25	10	105
639011	FXT Base Flange, 100 100	100 100	250	250	14	18 X 30	12	120
639021	FXT Base Flange, 100 120	100 120	250	250	14	18 X 30	12	145
639031	FXT Base Flange, 100 150	100 150	300	300	14	22 X 32	12	165

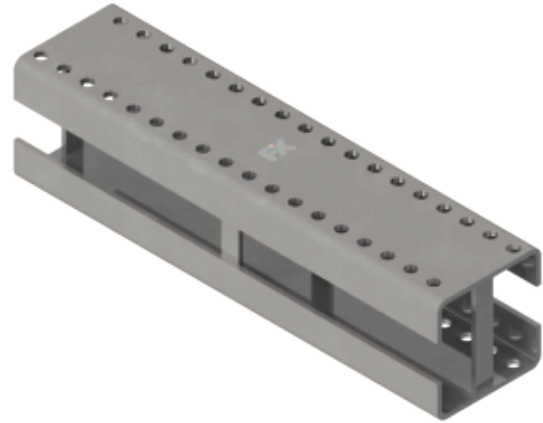
# FXT Longitudinal Connector

## Connectors

Connection element for longitudinal alignment of FXT Heavy Rail Profiles

### Material specifications

<b>Material</b>	S235JR or equivalent steel
<b>Coatings</b>	Hot-Dip Galvanized

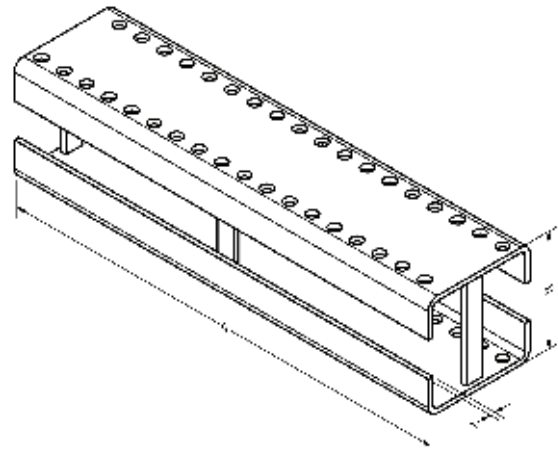


### Applications

- Longitudinal connections of FXT Heavy Rail Profiles
- Maintaining continuity of FXT Heavy Rail Profiles for Large spans

### Features & Benefits

- Easy to install with FXT Self threading bolts
- Ensures longitudinal alignment of FXT Heavy Rail Profiles
- Quick and efficient connections of heavy support structures
- High load bearing capacity owing to special material properties and design
- Hot-dip galvanized in accordance to EN 1461 assures higher corrosion protection and provides flexibility of using in Indoors as well as outdoors



### Select Variant

Article No.	Product Description	FXT Heavy Rail Profile	A (mm)	B (mm)	t (mm)
639601	FXT Longitudinal Connector, 80 80	80 80	367	70	4
639611	FXT Longitudinal Connector, 100 100	100 100	367	90	4
639621	FXT Longitudinal Connector, 100 120	100 120	367	110	4
639631	FXT Longitudinal Connector, 100 150	100 150	367	140	4

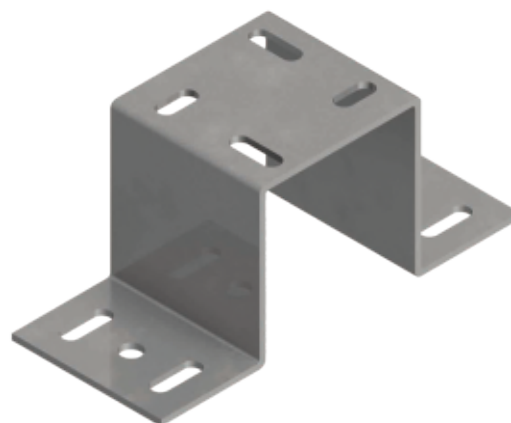
# FXT Cross Connector

## Connectors

Fixing element for cross connections of FXT Heavy Rail Profiles

### Material specifications

<b>Material</b>	S235JR or equivalent steel
<b>Coatings</b>	Hot-Dip Galvanized

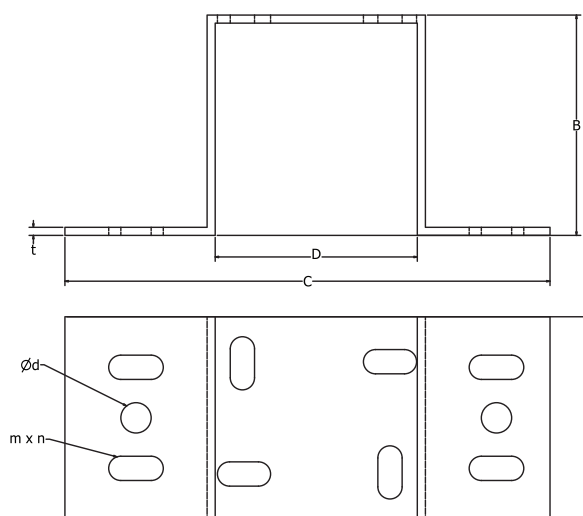


### Applications

- Cross connection of FXT Heavy Rail Profiles
- Connecting element for planar grid structures

### Features & Benefits

- Easy to install with FXT Self threading bolts
- Ensures rotation-free FXT Heavy Rail structural connections
- Quick and efficient connections of heavy support structures
- High load bearing capacity owing to special material properties and design
- Hot-dip galvanized in accordance to EN 1461 assures higher corrosion protection and provides flexibility of using in Indoors as well as outdoors



### Select Variant

Article No.	Product Description	FXT Heavy Rail Profile	A (mm)	B (mm)	C (mm)	D (mm)	Ø d (mm)	m x n (mm)	t (mm)
639701	FXT Cross Connector, 80 80	80 80	80	85	200	80	13	11x32	4
639711	FXT Cross Connector, 100 100	100 100	100	105	240	100	13	11x32	4
639721	FXT Cross Connector, 100 120	100 120	100	105	260	120	13	11x32	6
639731	FXT Cross Connector, 100 150	100 150	100	105	280	150	13	11x32	6

# FXT Girder Cleat

## Connectors

Connection element for attachment of FXT Heavy Rail Profiles to steel girders

### Material specifications

<b>Material</b>	S235JR or equivalent steel
<b>Coatings</b>	Hot-Dip Galvanized

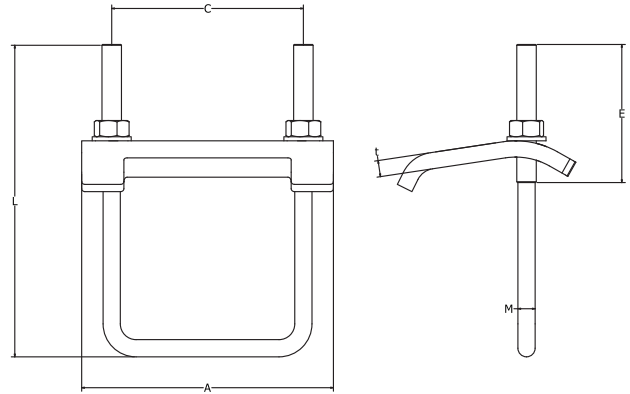


### Applications

- Connection of FXT Heavy Rail Profiles to steel girders without welding or drilling

### Features & Benefits

- Easy to install, Pre-assembled Kit
- Enables secured transfer of loads from FXT Heavy Rail Profiles to steel girders
- Allows adjustment of FXT Heavy Rail Profiles along and across the supporting beam
- Suitable for Flange thicknesses of common steel girder profiles



### Select Variant

Article No.	Product Description	FXT Heavy Rail Profile	A (mm)	C (mm)	M (mm)	E (mm)	t (mm)	L (mm)
639951	FXT Girder Cleat, 80 80	80 80	135	96	M12	60	8	140
639961	FXT Girder Cleat, 100 100	100 100	155	116	M12	85	10	190
639971	FXT Girder Cleat, 100 120	100 120	155	116	M12	85	10	190
639931	FXT Girder Cleat, 100 150	100 150	155	120	M16	90	12	230

\*Available on request



## FXT Self Threading Bolt

### Accessories

High strength (10.9 Grade) self threading bolts

#### Material specifications

<b>Material</b>	S235JR or equivalent steel
<b>Coatings</b>	Dacromet



#### Applications

- Secured connection of FXT Heavy Rail Profiles

#### Features & Benefits

- Self threading technique ensures secured connections with the FXT self drilling bolts
- High corrosion resistance due to dacromet surface finish

#### Select Variant

Article No.	Product Description	FXT Heavy Rail Profile	Length (mm)	Pack Size (Nos)
649001	FXT Self Threading Bolt, M10	M10	20	50

## FXT Protection Cap

### Accessories

Protection cap for open ends of the FXT heavy rail profiles

#### Material specifications

<b>Material</b>	Polyethylene
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#### Applications

- Protection cap for open ends of the FXT Heavy Rail Profiles
- Covering the open ends of FXT Heavy Rail Profiles

#### Features & Benefits

- Provides protection from edge damage and corrosion
- Better aesthetic appearance of FXT Heavy Rail Profile installations.

#### Select Variant

Article No.	Product Description	FXT Heavy Rail Profile
639901	FXT Protection Cap, 80 80	80 80
639911	FXT Protection Cap, 100 100	80 80
639921	FXT Protection Cap, 100 120	100 120
639931	FXT Protection Cap, 100 150	100 150

### General information

If the medium being insulated is warmer than the surroundings, we talk about thermal insulation.  
If the medium being insulated is colder than the surroundings, we talk about cold insulation.

### The tasks of insulation

- \* Reducing heat loss, and therefore energy consumption.
- \* Protecting the flow medium from undesirable temperature fluctuations.
- \* Preventing the formation of condensation and external corrosion.
- \* Reducing the growth of Legionella bacteria.

### Insulation materials

Different materials can be used to achieve the desired insulating effect. Nowadays insulation materials predominantly consist of the following basic materials:

- \* Mineral fibres, e.g. mineral wool or glass wool
- \* Soft or hard plastic foams, e.g. PVC, PU, PE, PS

The installer insulates lines using:

- \* pipes with thermal insulation applied in the factory.
- \* closed-pored, flexible insulation hoses.
- \* pipe shells made from the above materials.

### Regulations on protecting piping against heat transfer

Thermal insulation is stipulated for hot water and heating lines in the German Energy Conservation Ordinance (EnEV), which relates to the Energy Conservation Act (EnEG). Hot water and heating lines primarily must be protected against heat loss, as hot, uninsulated lines lose a great deal of heat. The larger the pipe circumference, the larger the magnitude of the heat loss.

Cold water lines must also be encased with insulation according to DIN 1988-200. Failure to do so poses a risk that the moisture contained in warm air will condense when it comes into contact with the cold pipe. Thus in summer temperatures, even in low-humidity conditions, condensation can form and drip off. This moisture carries with it a risk of corrosion and mould growth.

Recommended max. spacing between brackets for copper pipes:

External diameter (mm)	Spacing (m)
15 to 22, soft	2
22 to < 54, semi-hard	3
54 to 67, semi-hard	4

In addition to observing the spacing between pipe brackets, it is also important to avoid the transfer of excessive vibrations. Particular care must be taken to ensure that noises or vibrations are not transmitted from the piping into walls and buildings, by choosing the right support structures.

### Measures to prevent pipes from freezing

A layer of thermal insulation cannot permanently prevent lines from freezing. Therefore, to guard against frost:

- \* Room which are susceptible to frost must be heated with appropriate equipment.
- \* Do not route water lines through external walls.
- \* Route lines in the ground at depths not susceptible to frost.

## General information

Sound insulation is a measure to reduce transmission of sound from a sound source.

## Our ears need a break

The human ear is a high-performance sensory organ, which can discern sounds in a frequency range of approx. 16 - 18,000 Hz. It cannot shut out sound waves.

## Facts and figures

- \* Over a third of German citizens feel disturbed by traffic noise.
- \* 6.5% of German citizens complain about noisy neighbours.
- \* Many suffer from the effects of aircraft noise, and noise at sporting events and in industrial facilities.
- \* Noise has become a constant problem in our modern society.

## Types of sound



### Airborne sound

- \* Sound is transmitted through the air.
- \* The sound spreads throughout the area and is transferred to walls, ceilings, and floors.
- \* Only airborne sound is discernible by the ear.

### Structure-borne

- \* Sound: \* Structure-borne sound is transmitted through solid objects (piping, walls, ceilings).
- \* The sound spreads throughout the area and is transferred to walls, ceilings, and floors.

## Why does sound insulation play a role in fastening technology?

Noise from ventilation, cooling, and heating equipment is primarily generated by structure-borne sound transmission. Structure-borne sound cannot be easily remedied, most damage is irreparable. It can cause lasting physical and psychological damage.

Continuous noise pollution represents a problem which is not to be underestimated.

## Why does sound insulation play a role in fastening technology?



Sound sources in a building

- \* Insulation. Using sound-insulating fastening technology, you can ensure that all potential sound sources are insulated from the building structure.
- \* For piping under high pressure (> 5 bar), install a pressure regulator.
- \* Dimension drainage lines properly with ventilation to avoid gurgling noises.
- \* Avoid 90° bends in downpipes.
- \* Line shafts with mineral wool (min. 30 mm) and seal installation shafts without joints.
- \* Use low-noise fittings (noise class I).

### General information

Electroplating is a corrosion protection process for parts made predominantly of steel. The objects to be finished are coated with metal (zinc) in an electrolytic bath.

### Facts and figures

- \* Germany has around 1500 galvanic installations.
- \* The person who discovered galvanic electricity was physicist Luigi Galvani.
- \* The largest zinc baths in Germany have a length of approx. 20 m.

### The process



The workpieces are zinc plated by electricity in an electrolytic bath. This involves suspending the workpiece in the electrolyte as a cathode (-). The zinc is the anode (+), which dissolves away and is thereby applied to the cathode.

In suspension systems, the products are suspended from specially adapted frames. Immersing the product in the electrolytic bath distributes the zinc over the product uniformly.

For small steel parts, the bulk goods are loaded into metal drums and fully immersed in the bath. By rotating the metal basket, the parts are centrifuged. This is particularly important for parts with a thread.

### There's more to galvanising than meets the eye!

The various galvanising processes differ in terms of the thickness of the zinc layer and their corrosion protection-properties:

#### Sendzimir galvanising:

- \* Sendzimir galvanising (strip galvanising) is used in the area of punching & forming processes.
- \* The thickness of the zinc layer is in this case generally around roughly 7 - 25  $\mu\text{m}$ .

#### Electroplating:

- \* Electroplating is primarily used for small parts.
- \* The thickness of the zinc layer is in this case generally around roughly 5 - 25  $\mu\text{m}$ .

#### Hot-dip galvanising:

- \* Hot-dip galvanising is primarily used for outdoor applications.
- \* The thickness of the zinc layer is in this case generally around roughly 50 - 100  $\mu\text{m}$ .

#### Special galvanising:

- \* There are also other galvanising processes, for example zinc spraying or zinc flake coating.

### Environment

Galvanising contributes to the avoidance of corrosion damage, and consequently extends the durability of the products.

The most important task of a well-managed electroplating shop is to handle raw materials, water, and energy in such a way that resources are conserved, waste minimised, and risks to the environment avoided.

Our in-house electroplating shop is a pioneer in this area.

## General information

The term corrosion means the destruction of metals by the reaction of a material with its surroundings.

## Facts and figures

- \* Each year in Germany, damage in the value of some €100B is caused by corrosion.
- \* A rust film can be deposited on untreated steel within hours.

## How is rust produced?



Rust occurs primarily on iron or steel surfaces by oxidation with oxygen in the presence of electrolytes (e.g. water). The formation of rust is also accelerated by the presence of salts, as they increase the conductivity of the water.

Slight traces of rust can be washed off with diluted phosphoric acid (for example). Heavily rusted materials can be cleaned of rust by methods including brushing, grinding, or sandblasting.

## Types of corrosion

Corrosion can occur in different forms:

**Erosive corrosion:** The surface is attacked and removed uniformly.

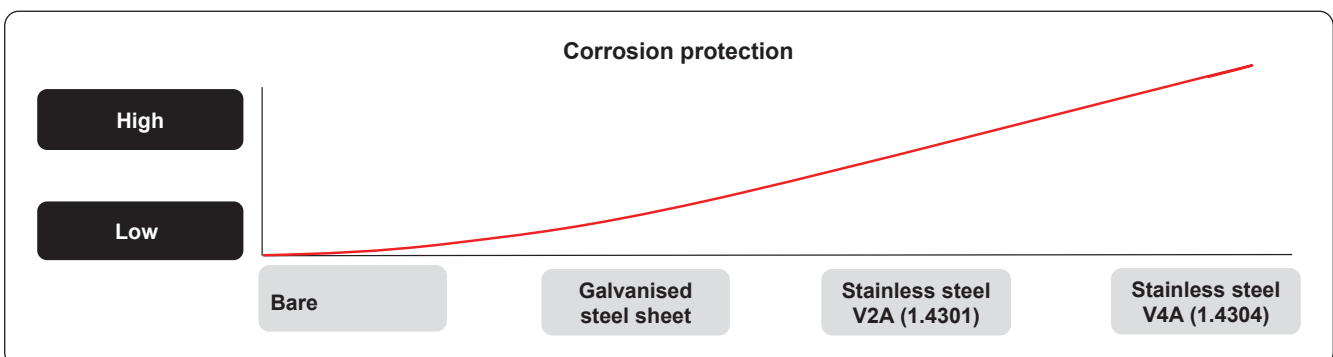
**Pitting corrosion:** The passive layer on the surface is destroyed selectively. Due to the progressive removal of material, holes appear in the base material.

**Stress corrosion:** Stress cracks in the material grow as a result of the accumulation of aggressive media in the crack.

**Contact corrosion:** Occurs due to direct contact between noble and base metals in conjunction with an electrolyte (moisture). If steel (for example) – a base metal – comes into direct contact with stainless steel – a noble metal – the steel is corroded more quickly in combination with moisture.

## Corrosion protection

Corrosion protection describes all measures to protect materials and components from corrosion. Absolute corrosion resistance of steel cannot be achieved. In this case, the objective is to reduce the speed of corrosive attack sufficiently to avoid damage to the component during its service life.



## Units and conversion factors

### 1. SI units

In accordance with the German units of measurement law (EinhZeitG), only SI units (système international) may be used for official and commercial purposes.

There follows a list of the most common SI units prescribed by law.

Basic units		
Basic parameter	Base unit	Symbol
Length	Metre	m
Mass	Kilogram	kg
Time	Second	s
Temperature	Kelvin	K
Current	Ampere	A

Derived units	
Physical variables	Designation
Force	N (newton)
Energy, work	J (joule)
Pressure	Pa (pascal)
Area	m <sup>2</sup>
Volume	m <sup>3</sup>

### 2. Conversion factors

Lengths				
Units	m	dm	cm	mm
Metre [m]	1	10	100	1.000
Mass				
Units	t	kg	g	mg
Kilogram [kg]	0,001	1	1.000	1.000.000
Force				
Units	1 N*	10 N	100 N	1,000 N
Metre [m]	0,1	1	10	100

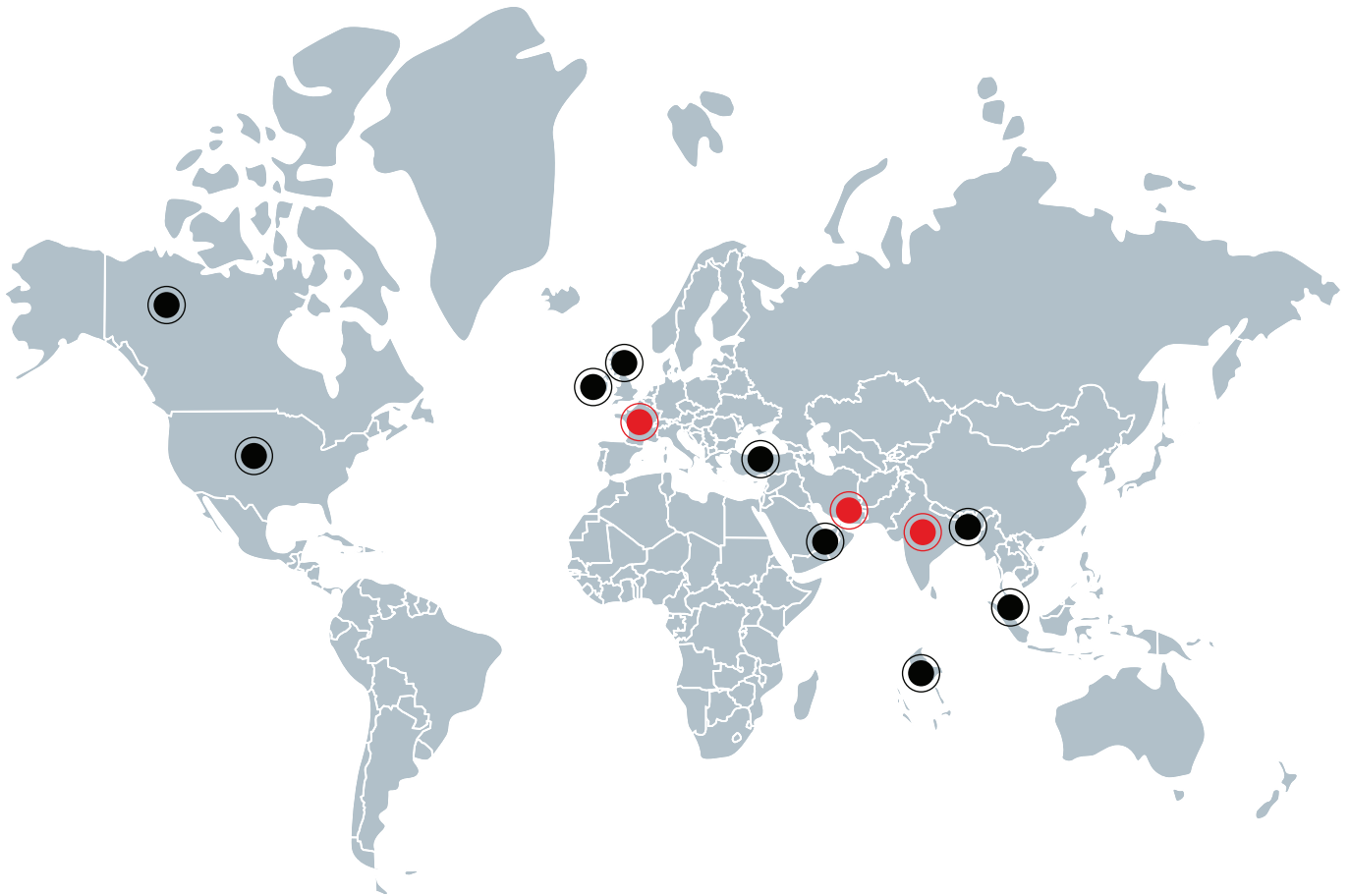
\* 1 N = 9.81 kg

### 3. Symbols and their meaning

Symbol	Meaning
$\Delta T$	Temperature difference between jet and jet path
$\Delta L$	Linear expansion
dm	Decimetre
cm	Centimetre
mm	Millimetre
t	Tonne
g	Gram
mg	Milligram
N	Newton

# Our **Global Reach**

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## **Headquarter: Germany**

 +49 (0)9843 9897-0


 [kundenbetreuung@fixotec.com](mailto:kundenbetreuung@fixotec.com)

 Fixotec Befestigungstechnik GmbH  
Im Grund 1, 91593 Burgbernheim,  
Germany

## **Regional Office: India**

 +91 2265011065

 [info@fixotec.in](mailto:info@fixotec.in)

 Fixotec Pipe Supports India  
2214, Solus, Hiranandani Business  
Park, Thane, MH - India