



Materials

Mild Steel - Plain

A. Hot Rolled Steel Plates, Sheets and Coils **S235 JR**, as per:

EN 10025 -2 / DIN 17100 / BS 4360 / ASTM A 653M / ASTM A 1011 / ASTM A 1011-01a

JIS 3101 / JIS 3106 / GB 700 / GB / T1591.

ASTM A 907 / ASTM A 1018M.

ASTM A 570M / ASTM A 572M.

B. Cold Rolled Steel **DC 01**, as per:

EN 10130 / DIN 1623, Part 2 / BS 1449:1 / ASTM A366 / ASTM A 1008 / JIS G 3141 / GB 699.

EN 10131 / ASTM A 568M

Mild Steel - Galvanized

C. Continuously Pre- Galvanized Hot-Dip Zinc Coated Steel **DX 51D + Z**, as per:

EN 10327 / DIN 17162 / BS 2989/ ASTM A 527M / ASTM A 653M / JIS G 3302.

EN 10326/ EN 10142 / ASTM A 526, 527, 528/ ASTM A 146

D. Electro Galvanized Steel (Electrolytic Coating) **DC01 + ZE v**, as per:

EN 10152 / DIN 17163 / ASTM A591 / JIS G 3313 / JIS G 3141/BS 1449:1

EN 10131

Aluminum

E. Aluminum **6063 T6**

Stainless Steel

F. Austenitic Stainless Steels **SS 304 & SS 316**, as per:

ASTM A 240 /EN 10088-2/ DIN 17400 / BS 1449:2 / ASTM A480 / ASTM A666 / ISO 3506 / EN 10028-7 /JIS G 4304

F.1 Stainless Steel Fasteners EN 3506

F.2 Stainless Steel Wire BS 1554 ,ASTM A276

Finishes

1- Hot-DIP Galvanization after Fabrication

as per:

ASTM A 123 / ASTM A 153 / ISO 1461.

BS 729 / DIN 50976

2- Zinc Electroplating after Fabrication

as per:

ASTM B633 / EN 12329 / ISO 4042/ BS 1706 / BS 3382 / DIN 50961

3- Powder Coating

Epoxy / Polyester / Epoxy & Polyester

BS 3900 / ISO 2409 / ISO 1519 / ISO 1520





Channel

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

Lengths

Standard length: 3000mm with ± 3.2 mm length tolerance.

Custom lengths vv available upon request.

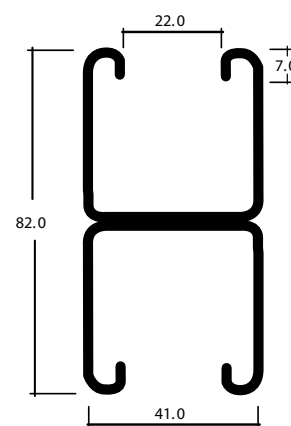
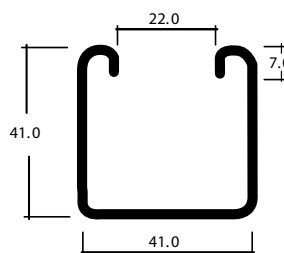
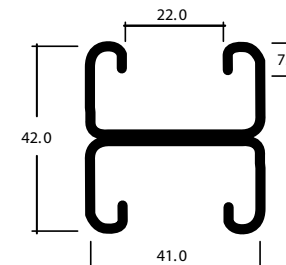
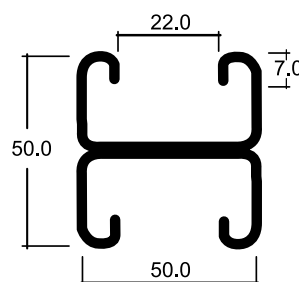
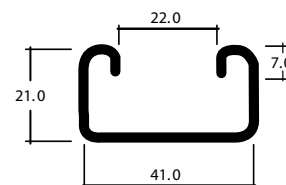
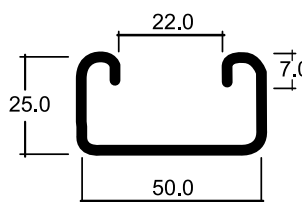
Finishes

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

Metal Framing Channels

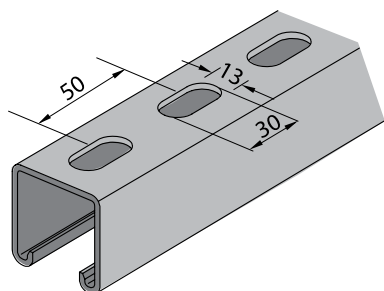
Selection Chart

Part No	Channel Dimensions		Thickness
	Height "H"	Width "W"	
CCH - 220/221	21.0 mm	41.0 mm	1.5 mm
CCH - 240/241	41.0 mm	41.0 mm	1.5 mm
CCH - 260/261	25.0 mm	50.0 mm	1.5 mm
CCH - 320/321	21.0 mm	41.0 mm	2.0 mm
CCH - 340/341	41.0 mm	41.0 mm	2.0 mm
CCH - 360/361	25.0 mm	50.0 mm	2.0 mm
CCH - 420/421	21.0 mm	41.0 mm	2.5 mm
CCH - 440/441	41.0 mm	41.0 mm	2.5 mm
CCH - 460/461	25.0 mm	50.0 mm	2.5 mm



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

CCH 320	3	2	0	T
Material Thickness 2 for 1.5 mm 3 for 2.0 mm 4 for 2.5 mm	Size 2 - 21/41 mm 4 - 41/41 mm 6 - 25/50 mm	Channel Patterns 0 - PT 1 - ST 2 - B2B		Toothed channel



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- Custom sizes are available upon request and comply with NEMA standards



Channel Hole Patterns

PT Type Channel



Part No	Thick. mm.	Height "H"
CCH-220	1.5	21.0
CCH-240	1.5	41.0
CCH-260	1.5	25.0
CCH-320	2.0	21.0
CCH-340	2.0	41.0
CCH-360	2.0	25.0
CCH-420	2.5	21.0
CCH-440	2.5	41.0
CCH-460	2.5	25.0

ST Type Channel



Part No	Thick. mm.	Height "H"
CCH-221	1.5	21.0
CCH-241	1.5	41.0
CCH-261	1.5	25.0
CCH-321	2.0	21.0
CCH-341	2.0	41.0
CCH-361	2.0	25.0
CCH-421	2.5	21.0
CCH-441	2.5	41.0
CCH-461	2.5	25.0

B2B Type Channel



Part No	Thick. mm.	Height "H"
CCH-222	1.5	42.0
CCH-242	1.5	82.0
CCH-262	1.5	50.0
CCH-322	2.0	42.0
CCH-342	2.0	82.0
CCH-362	2.0	50.0
CCH-422	2.5	42.0
CCH-442	2.5	82.0
CCH-462	2.5	50.0

Toothed channel type

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



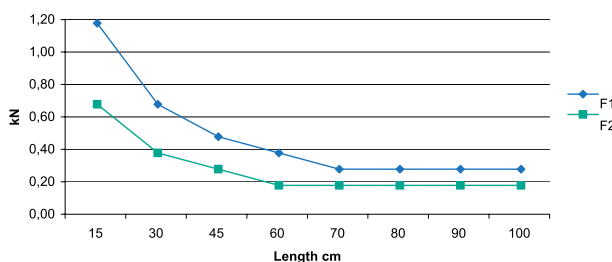
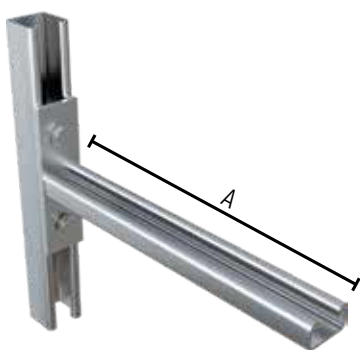
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Cantilever Arm Bracket

Cantilever Arm Brackets - SCA

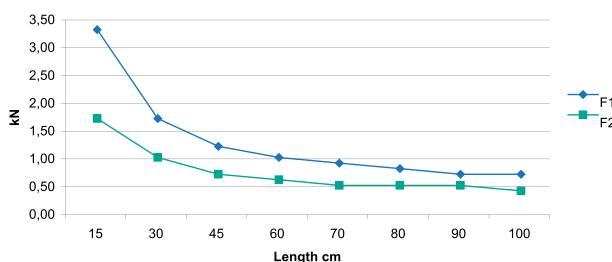
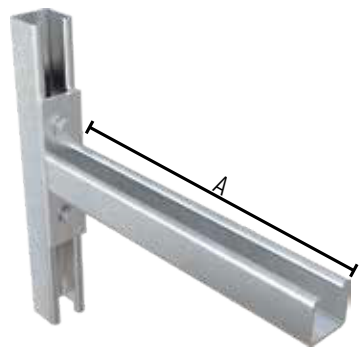
CCH421 41x21x2.5



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

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

- In the case of concrete support frame, use anchor M10
- In the case of concrete C-Channel frame, Hex bolt M8 .
** Connection force (pull-out force) : 3.10 (kN)

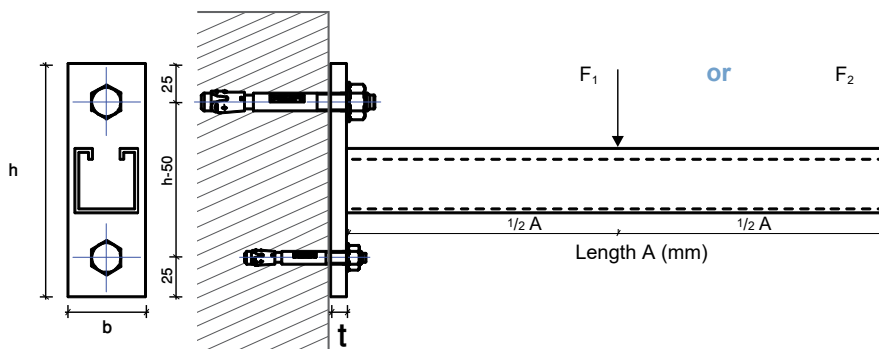


Length (A (mm))	Allowable Load		
	*F ₁	*F ₂	**F ₂
150	3.10	1.50	7.50
300	1.50	0.80	7.50
450	1.00	0.50	7.50
600	0.80	0.40	7.50
700	0.70	0.30	7.50
800	0.60	0.30	7.50
900	0.50	0.30	7.50
1000	0.50	0.20	7.50

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

- In the case of concrete support frame, use anchor M16 .
- In the case of concrete C-Channel frame, Hex bolt M8 .
** Connection force (pull-out force) : 7.50 (kN)

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



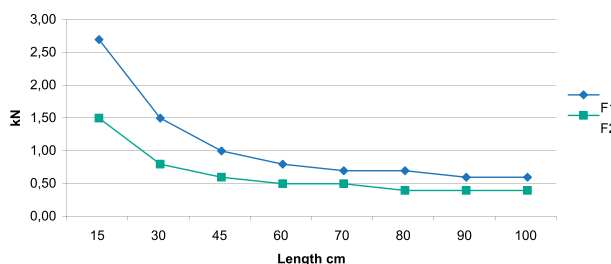
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Cantilever Arm Bracket

Cantilever Arm Brackets - SCA

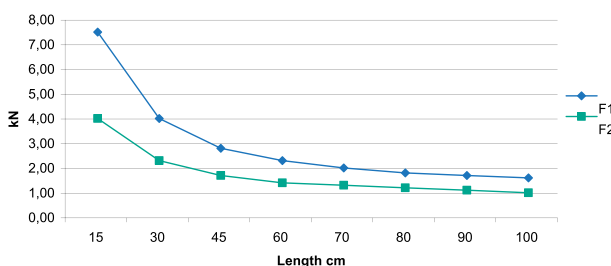
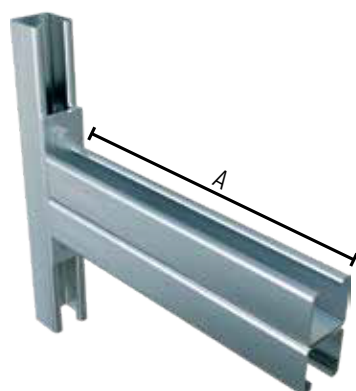
CCH422 41x21x2.5 B2B



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

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

CCH442 41x41x2.5 B2B

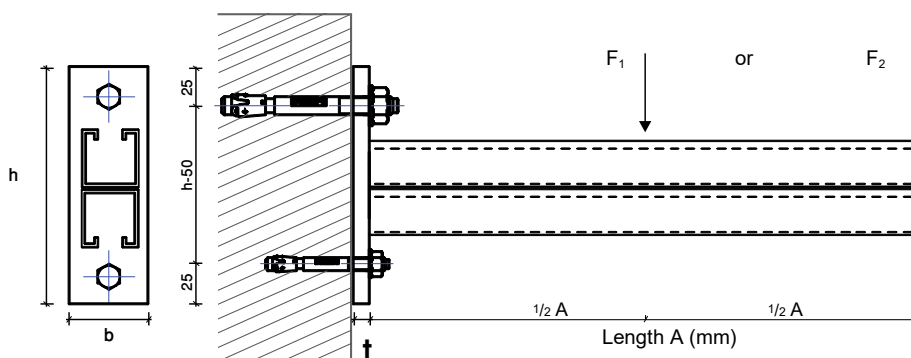


Length (A (mm)	Allowable Load		
	*F ₁	*F ₂	**F ₂
150	7.00	3.50	8.30
300	3.50	1.80	8.30
450	2.30	1.20	8.30
600	1.80	0.90	8.30
700	1.50	0.80	8.30
800	1.30	0.70	8.30
900	1.20	0.60	8.30
1000	1.10	0.50	8.30

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

· In the case of concrete support frame, use anchor M16.
· In the case of concrete C-Channel frame, Hex bolt M10 .
** Connection force (pull-out force) : 8,30 (kN)

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

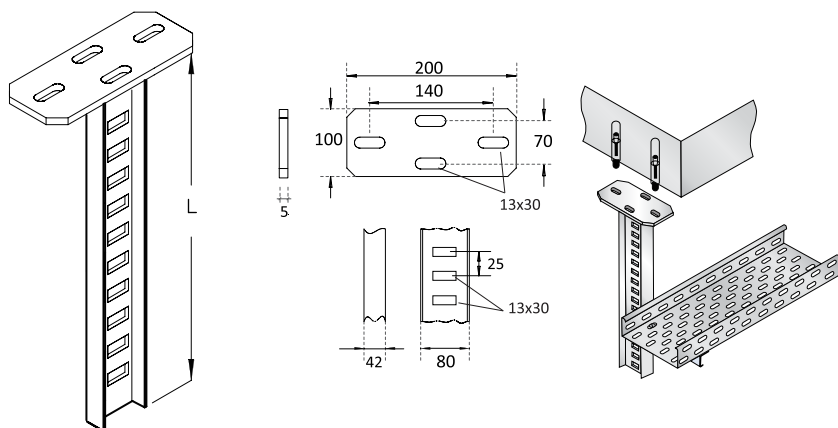


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U - Support / 3000

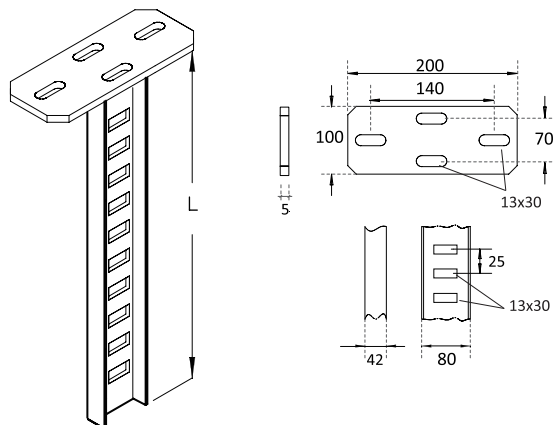
3000



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

I - Support / 3050

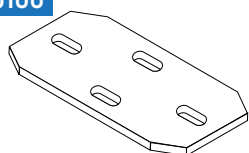
3050



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

Head Plate / 3100

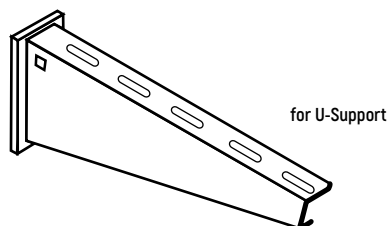
3100



200 x 100 x 5mm

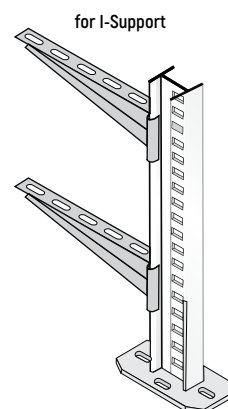
Wall Bracket | 3200 - 3250

3200



5 mm thickness

3250

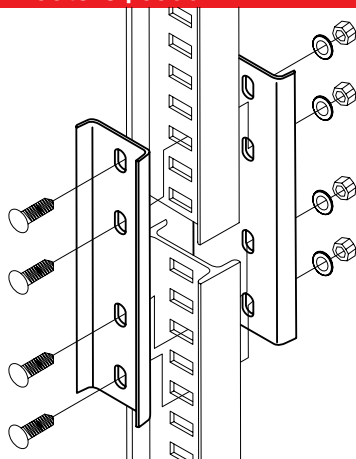


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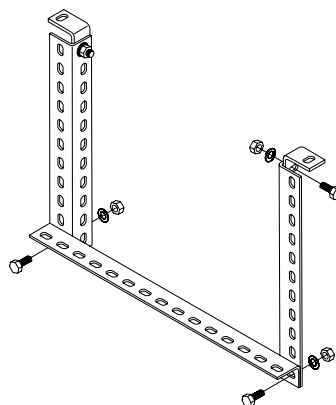
Support connectors | 3300

3300



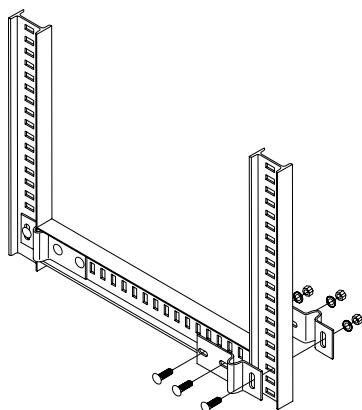
Clamping plates | 3350

3350



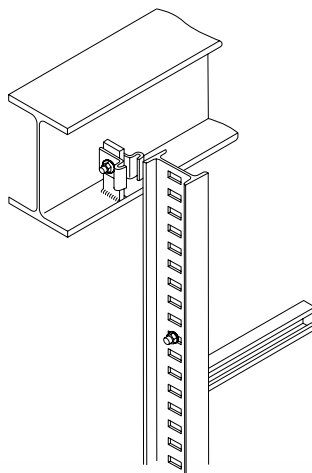
Support plates | 3400

3400



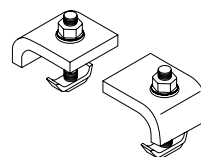
Support clamps | 3450

3450



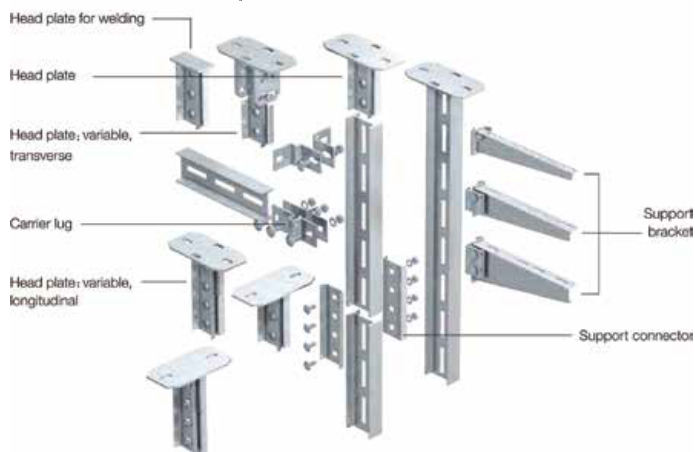
Clamping angles | 3550

3550



Angles | 3600

3600



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Framing Systems

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

Threaded Rod (STR) - DIN 975 - ASTM A36

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

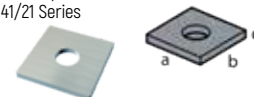


Square Washers SSW

Square Washers (SSW)

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

SSW 40/40 for all channels
41/21 Series



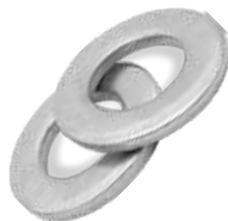
SSW 41/41 for all channels
41/41 Series



ASTM F436

Washers (SRW) | DIN 125 | ASTM F436

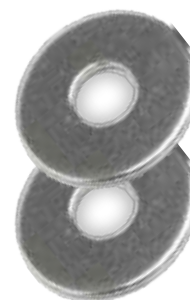
Zinc Plated	Stainless Steel	D	d	S
		(mm)	(mm)	(mm)
M6	M6	12	6.4	1.6
M8	M8	16	8.4	1.6
M10	M10	21	10.5	2
M12	M12	24	13	2.5
M16	M16	30	17	3
M18	M18	34	19	3.2
M20	M20	39	20.5	3.6



Round Washers DIN 440, DIN 9021

Washers (SRW) | DIN 440 | DIN 9021

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



Hexagon Nuts DIN 934, DIN EN 24032

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

Zinc Plated Thread	S/m DIN	S/m ISO	e
	(mm)	(mm)	(mm)
M6	10/5	10/6	11.5
M8	13/6.5	13/7.5	15.0
M10	17/8	16/9.5	19.6
M12	19/10	18/12	21.9
M16	24/13	24/15.5	27.7

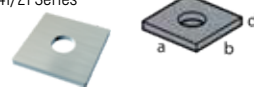


Square Washers SSW

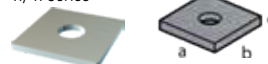
Square Washers (SSW)

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

SSW 40/40 for all channels
41/21 Series



SSW 41/41 for all channels
41/41 Series



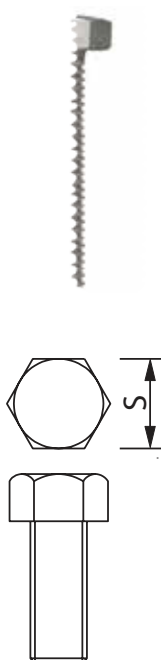
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Machine HexHead Bolts DIN 933, DIN 24017

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

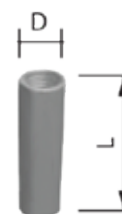
Hex Head Bolt (SHB)
DIN 933 or EN 24017 (without nut)



Coupler Sleeves Rounded

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

Coupler Sleeves (SCS)



Hexagonal Rod Coupler

Electroplated Thread	D (mm)	L (mm)	Load cap (kN)
M10	13	40	6.4
M12	17	40	9.3
M16	22	50	17.3

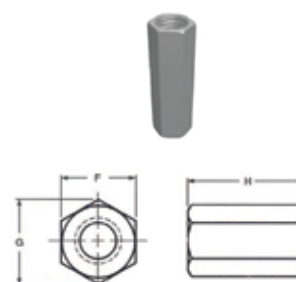
Hexagonal Rod Coupler with
view hole (SHR)



Hexagonal Rod Coupler with view hole

Size	G	F		H	
	Min.	Min.	Max.	Min.	Max.
M6	11.05	9.78	10	17.6	18
M8	14.38	12.73	13	23.5	24
M10	18.9	16.73	17	29.5	30
M12	21.1	18.67	19	35.4	36
M16	26.75	23.67	24	47.0	48
M20	32.95	29.16	30	58.1	60
M24	39.55	35.00	36	70.1	72
M30	50.85	45.00	46	87.8	90

Hexagonal Rod Coupler with view hole (SHR)



Finishing Available : Electroplated, HDG, SS AISI 304 & 316

Specification Requirements:

Dimensions: H, F and G - as above

Threads type: 6H

Mechanical Properties: class 6. Proof Load Strength 600MPa

Finish: Electro-plated

Remarks:

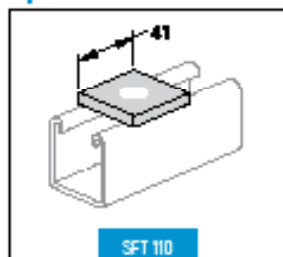
- Above Coupling Nut to be used with Threaded Rod Class 4.6 or less
- Threaded Rod to be extended inside the Coupler with distance equal or greater than the nominal Threaded diameter which is equal to H/2

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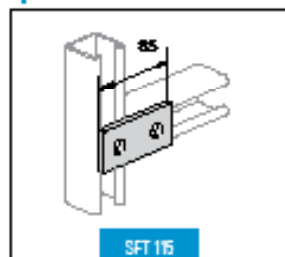


Fittings

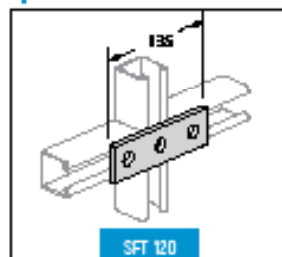
Square Washer



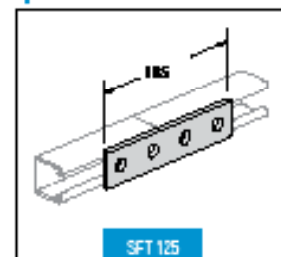
Splice Plate



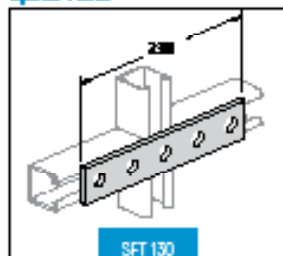
Splice Plate



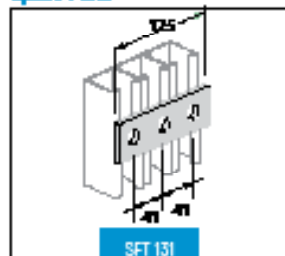
Splice Plate



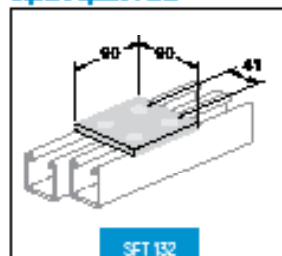
Splice Plate



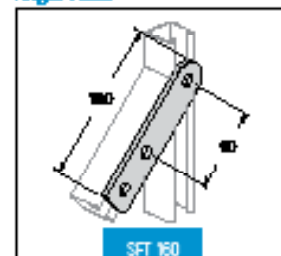
Splice Plate



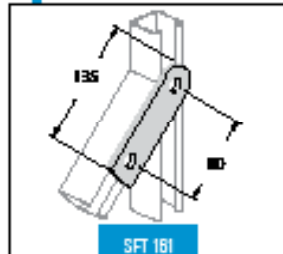
Square Splice Plate



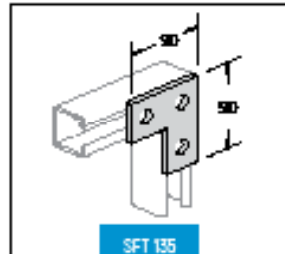
Angle Plate



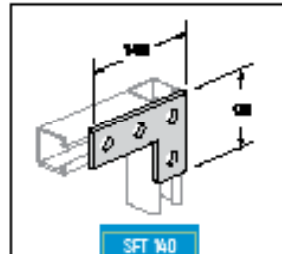
Angle Plate



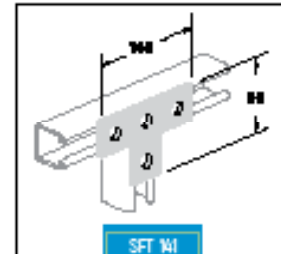
L-Plate



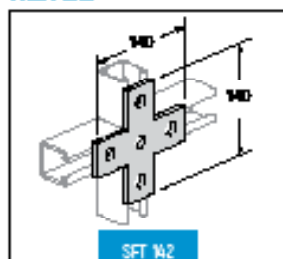
L-Plate



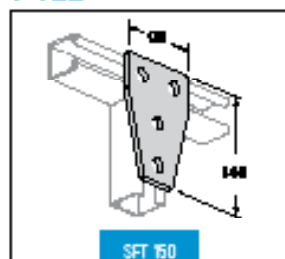
T-Plate



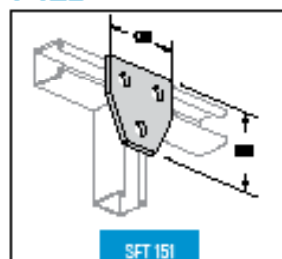
Plus Plate



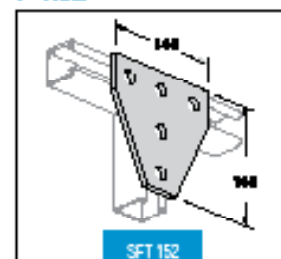
T-Plate



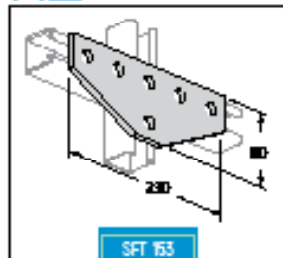
T-Plate



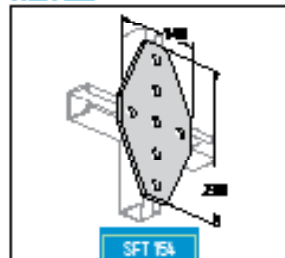
T-Plate



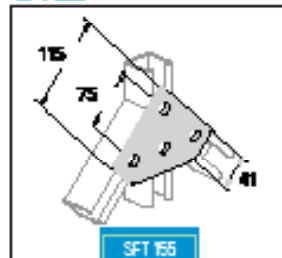
T-Plate



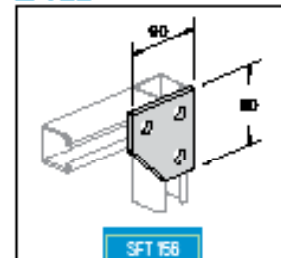
Plus Plate



45° Plate

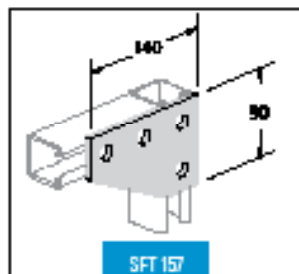


90° Plate



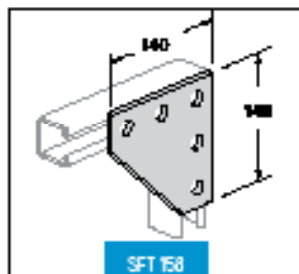


90° Plate



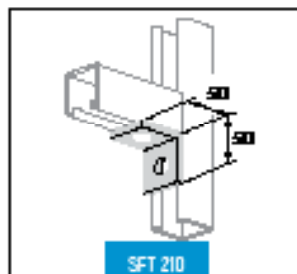
SFT 157

90° Plate



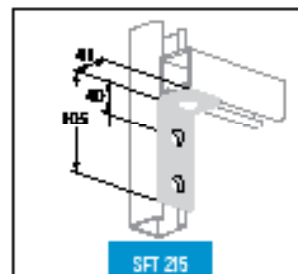
SFT 158

L-Bracket



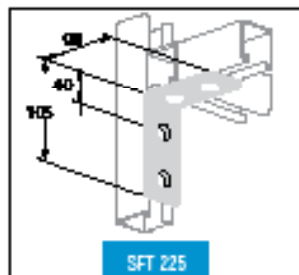
SFT 210

L-Bracket



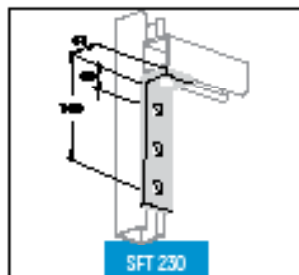
SFT 215

L-Bracket



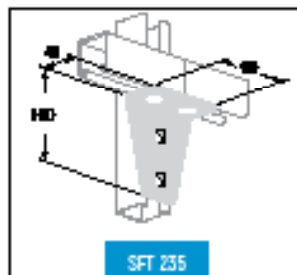
SFT 225

L-Bracket



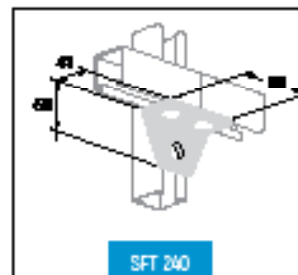
SFT 230

L-Plate



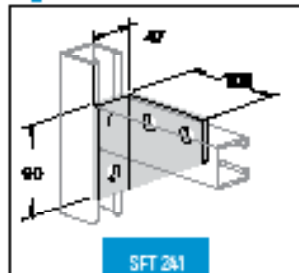
SFT 235

L-Plate



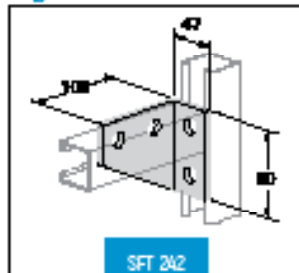
SFT 240

Angle Plate



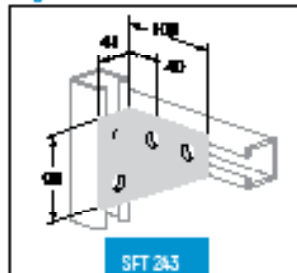
SFT 261

Angle Plate



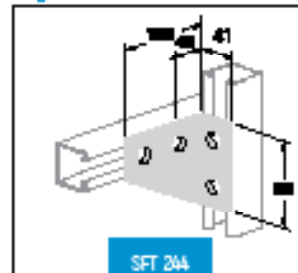
SFT 262

Angle Plate



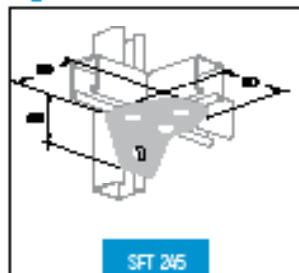
SFT 263

Angle Plate



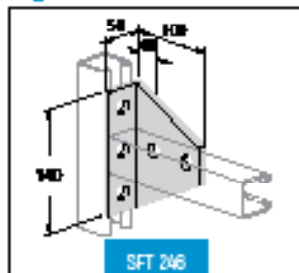
SFT 264

Angle Plate



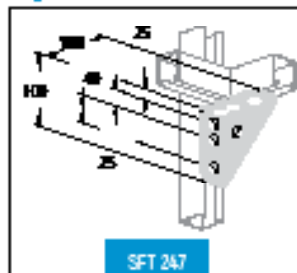
SFT 265

Angle Plate



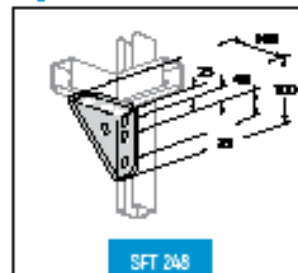
SFT 266

Angle Plate



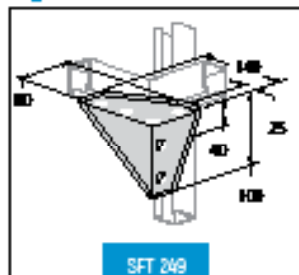
SFT 267

Angle Plate



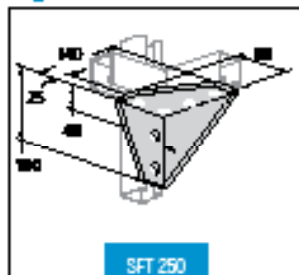
SFT 268

Angle Plate



SFT 249

Angle Plate



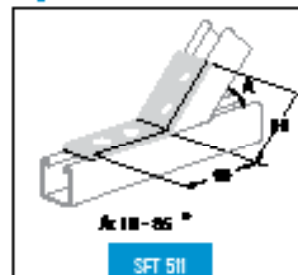
SFT 250

Angular Bracket



SFT 510

Angular Bracket



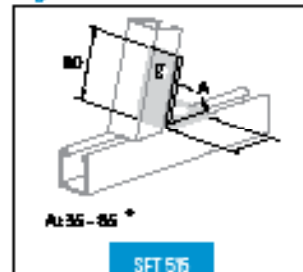
SFT 511



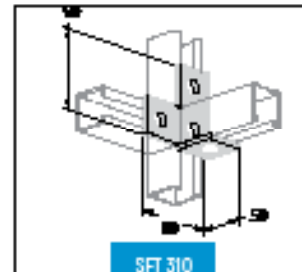
Angular Bracket



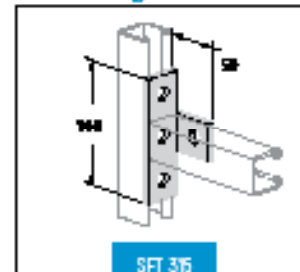
Angular Bracket



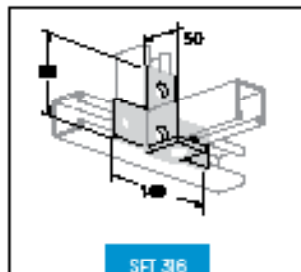
T-Corner Left



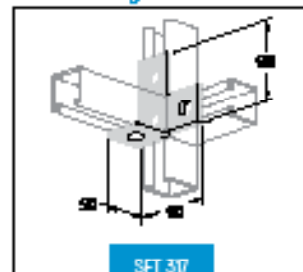
T-Corner Right



T-Corner



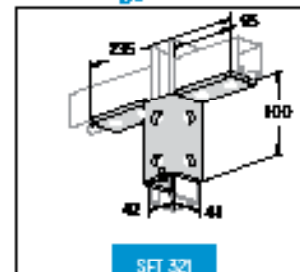
T-Corner Right



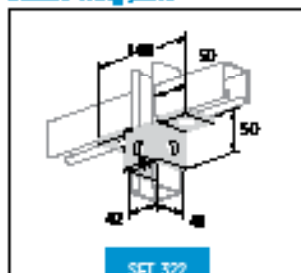
Double Wing Joint



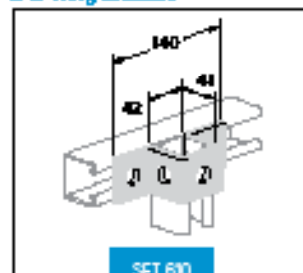
Double Wing Joint



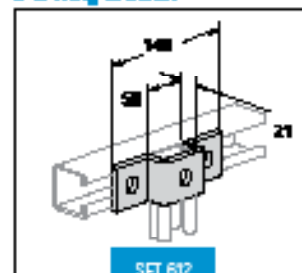
Double Wing Joint



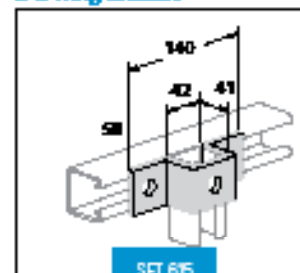
U & Wing Bracket



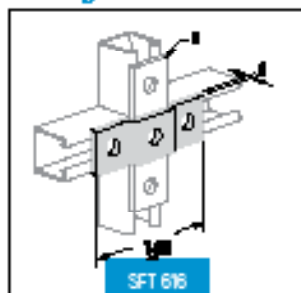
U & Wing Bracket



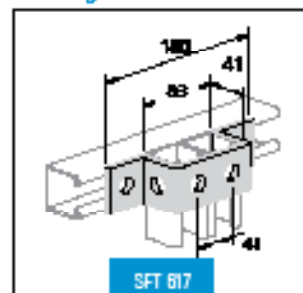
U & Wing Bracket



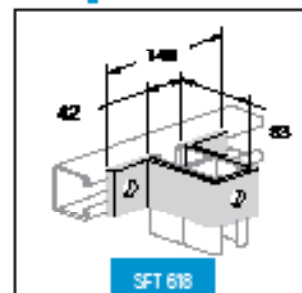
U & Wing Bracket



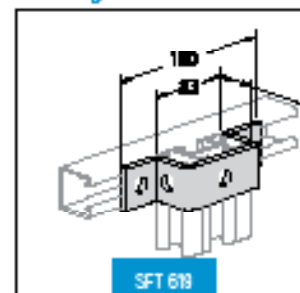
U & Wing Bracket



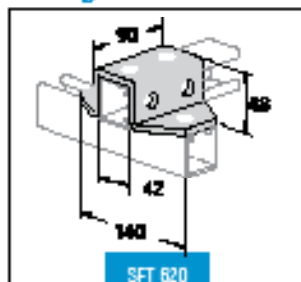
U & Wing Bracket



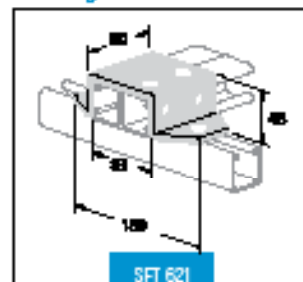
U & Wing Bracket



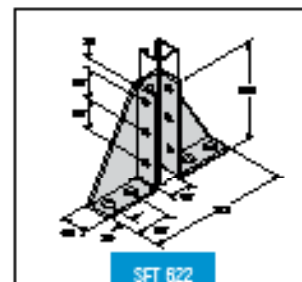
U & Wing Bracket



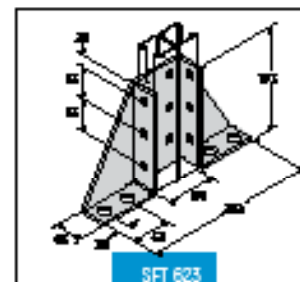
U & Wing Bracket



Single Channel Gussated Bracket

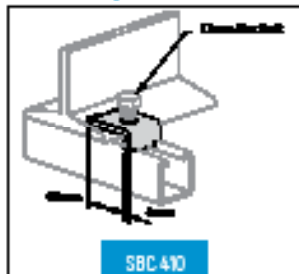


Double Channel Gussated Bracket

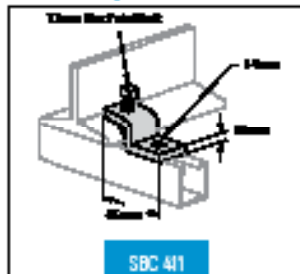




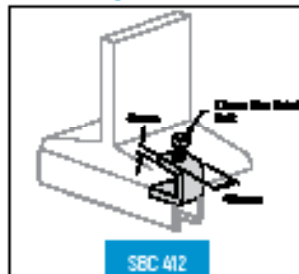
Beam Clamp



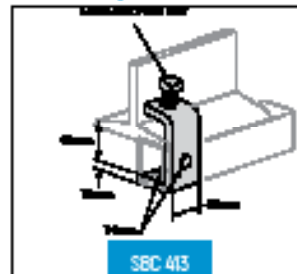
Beam Clamp



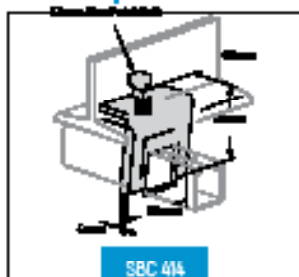
Beam Clamp



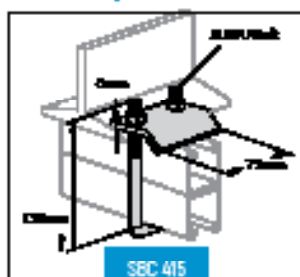
Beam Clamp



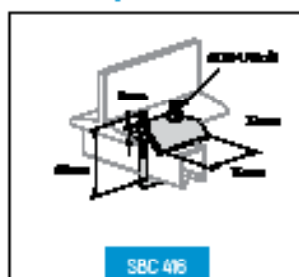
Beam Clamp



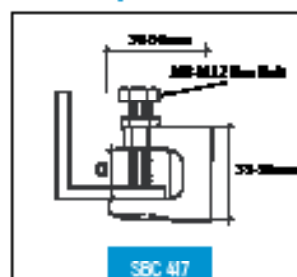
Beam Clamp



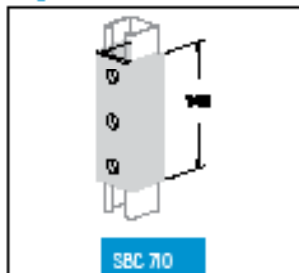
Beam Clamp



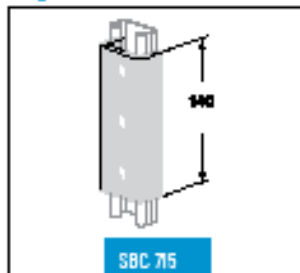
Beam Clamp



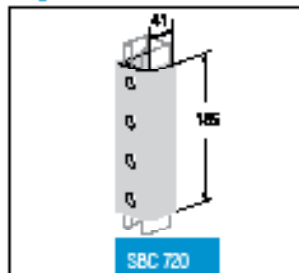
U - Joint Bracket



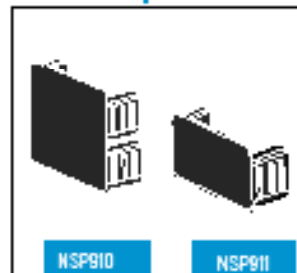
U - Joint Bracket



U - Joint Bracket



Plastic End Caps for Channels

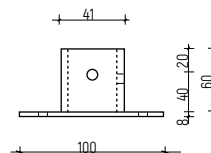
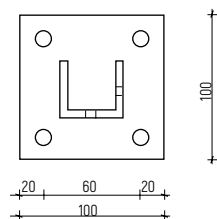




Post Base

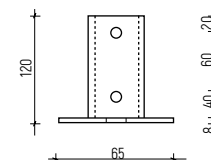
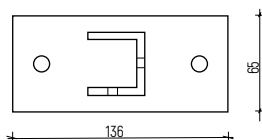
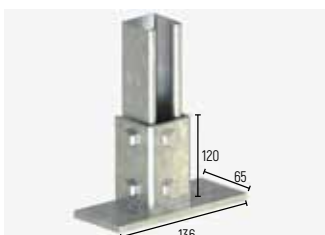
Base Plate with Single Fix

SFT 340



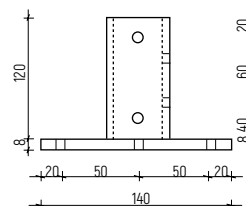
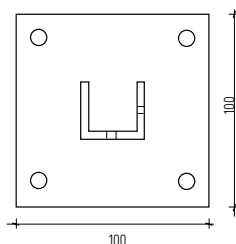
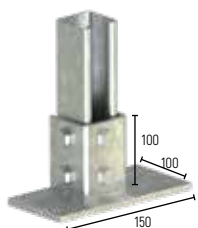
Base Plate with Double Fix

SFT 345



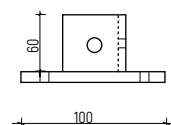
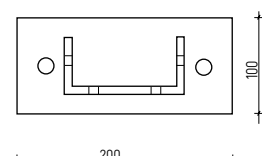
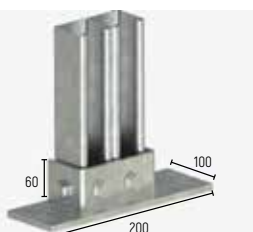
Base Plate with Double Fix

SFT 346



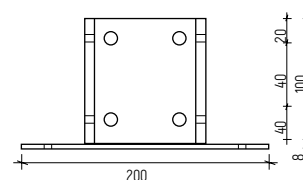
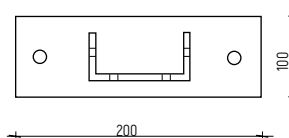
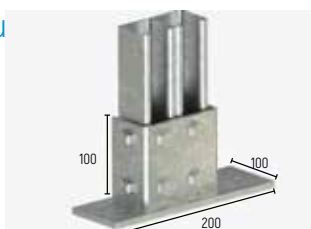
Base Plate with Double Channel

SFT 350



Base Plate with Double Channel Double Fix

SFT 355



Base Plate with Double Channel Double Fix

SFT 356

