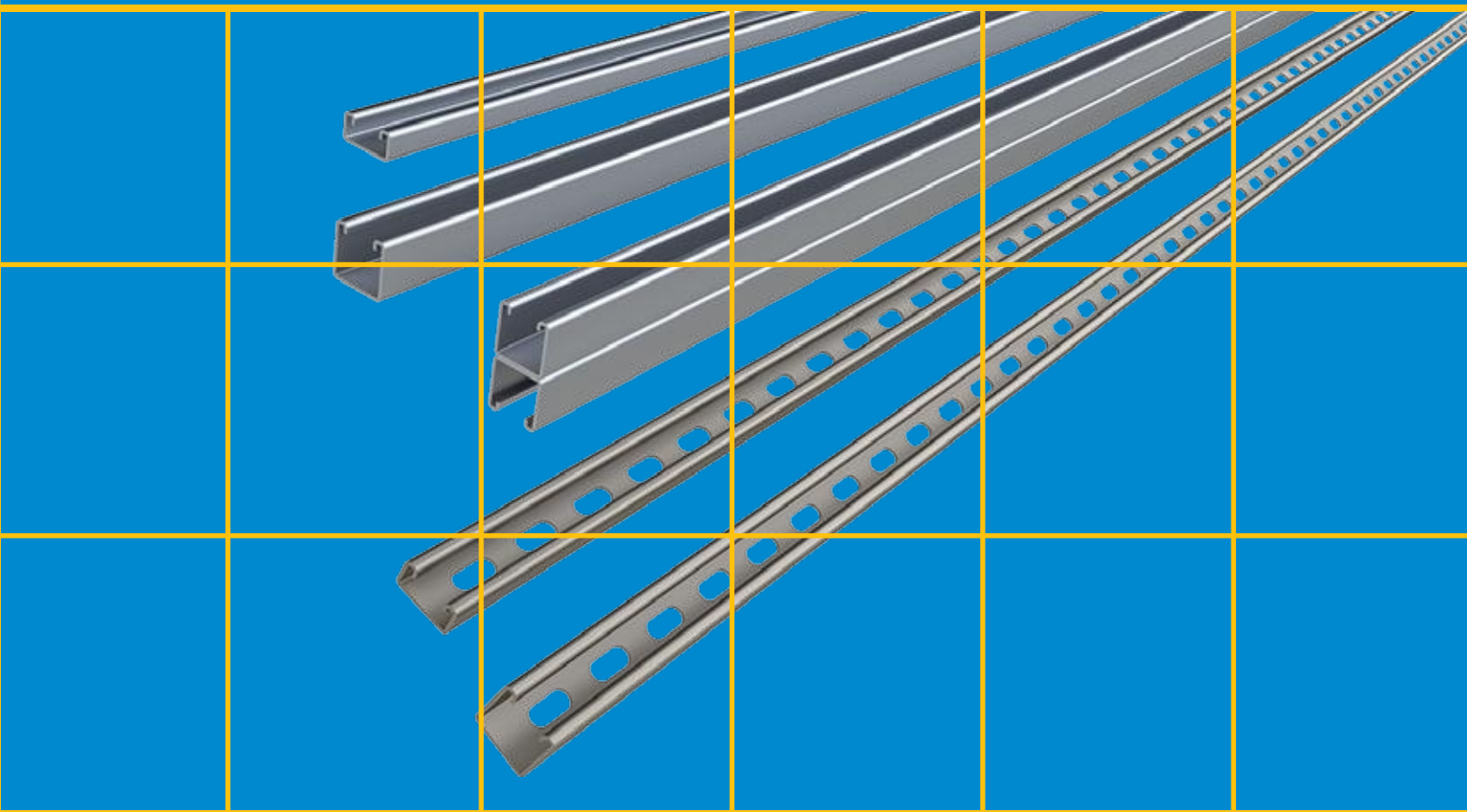


Power Solution Industries

DESIGN, ENGINEERING & MANUFACTURING COMPANY



PRODUCT CATALOGUE



BSI
KITEMARK



CERTIFIED

STRUT METAL FRAMING SYSTEMS

CONTENTS

STRUT CHANNELS	4
FLAT PLATE FITTINGS	6
ANGLE FITTINGS	8
Z & U FITTINGS	10
BEAM CLAMPS	11
BASE POSTS	13
CANTILEVERS	15
I BEAM SUPPORTS	17
PROPERTIES OF SECTION PROFILES	20

EDITION 2023



Engineered to Excellence



BSI
KITEMARK

BSI KITEMARK CERTIFIED PRODUCTS

**1ST CABLE MANAGEMENT MANUFACTURING COMPANY IN
MIDDLE EAST AND AFRICA**

Power Solution Industries quality plan conforms comprehensively to ISO 9001:2015, ISO 45001: 2018, ISO14001: 2015. The quality assessment and reviews are carried out by DET NORSKE VERITAS. The organization defines its quality objectives at the various levels of the company in order to achieve continual improvement in quality management system.

STRUT METAL FRAMING SYSTEMS

INTRODUCTION

Power Solution Industries offers a comprehensive Metal Framing System that conforms to BS 6946:1988. (Metal Channel Cable Support Systems for electrical installations)

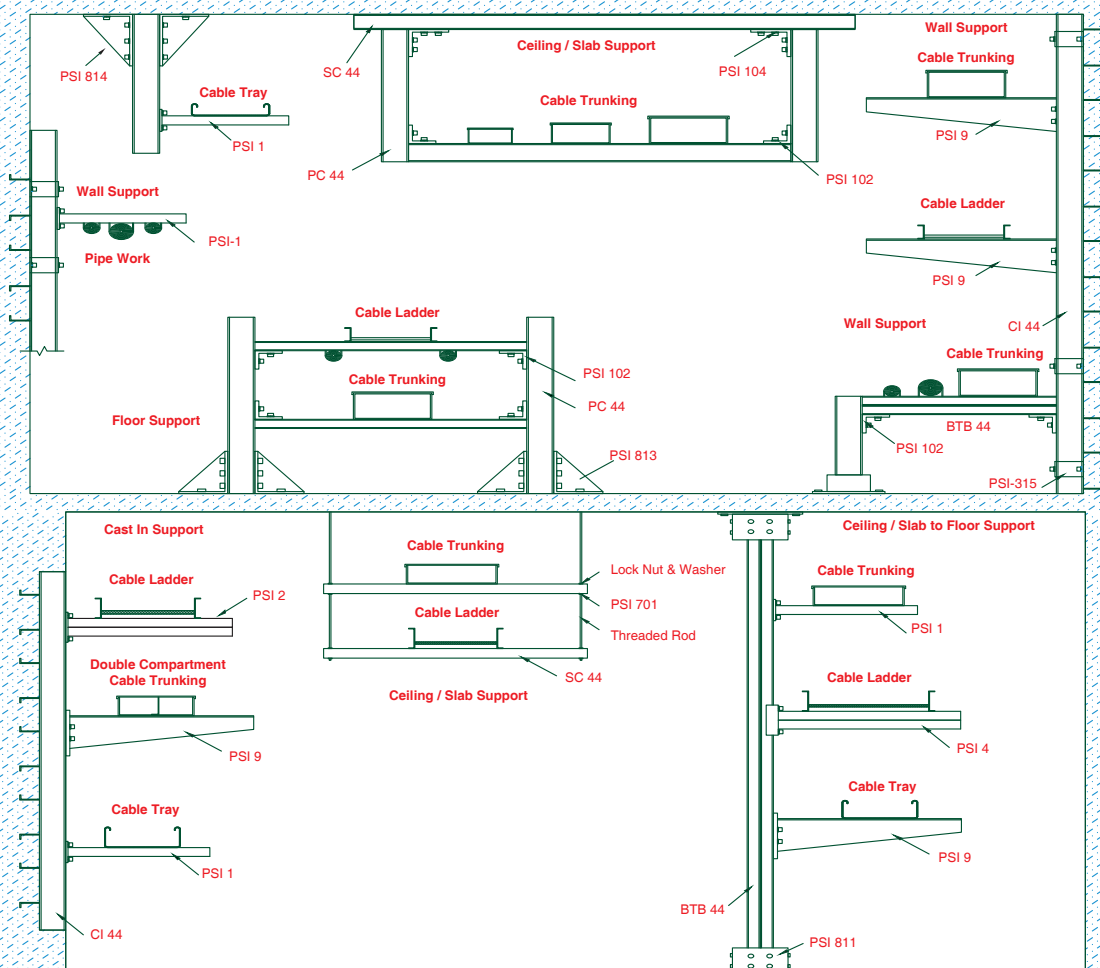
The Power Solution Industries Strut Metal Framing System incorporates the following features:

- ★ Flexibility of elements of the system can be combined to create an unlimited range of structural designs.
- ★ Rigidity of easily assembled rigid structures can be created without the need for drilling and welding.
- ★ Adjustability of the position of components can be easily adjusted & structures can be demounted and components reused.
- ★ Competitiveness & high strength to weight and ease of assembly make this as a cost effective solution to support structural requirements.
- ★ Multiple applications for structural support of mechanical as well as electrical services in a wide range of industries and construction projects.

STANDARD FINISHES

HDG	Hot dip Galvanized to BS EN ISO 1461 : 2009
PG	Pre-galvanized to BS EN 10346 : 2015
PC	Powder Coating to suit clients requirements
PP	Polypropelene Coating to suit clients requirements
SS	Stainless steel finish to required grades BS EN 10088 - 2 : 2014

PSI STRUT METAL FRAMING SYSTEM / TYPICAL SUPPORTS



STRUT METAL FRAMING SYSTEMS

PLAIN CHANNEL 41 X 41 (PC 44)

Material thickness : 1.5 / 2.0 / 2.5 mm

Weight : 1.58 / 2.1 / 2.64 Kgs/m

PLAIN CHANNEL 41 X 21 (PC 42)

Material thickness : 1.5 / 2.0 / 2.5 mm

Weight : 1.11 / 1.48 / 1.84 Kgs/m

BACK TO BACK CHANNEL 41 X 41 (BTB 44)

Material thickness : 1.5 / 2.0 / 2.5 mm

Weight : 3.16 / 4.21 / 5.28 Kgs/m

BACK TO BACK CHANNEL 41 X 21 (BTB 42)

Material thickness : 1.5 / 2.0 / 2.5 mm

Weight : 2.68 / 3.58 / 4.47 Kgs/m

BOX CHANNEL 41 X 41 X 41 (BC 444)

Material thickness : 1.5 / 2.0 / 2.5 mm

Weight : 4.73 / 6.31 / 7.89 Kgs/m

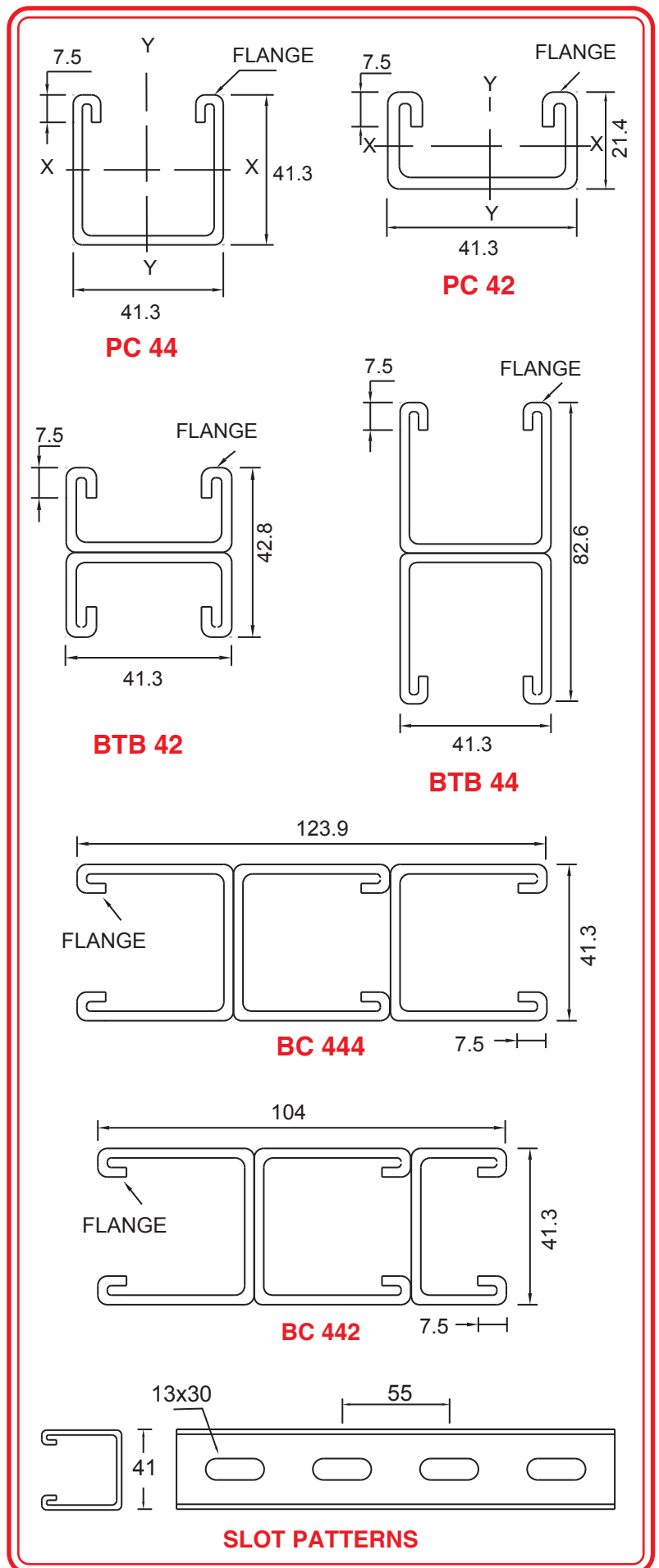
BOX CHANNEL 41 X 41 X 21 (BC 442)

Material thickness : 1.5 / 2.0 / 2.5 mm

Weight : 4.26 / 5.68 / 7.10 Kgs/m

SLOT PATTERNS

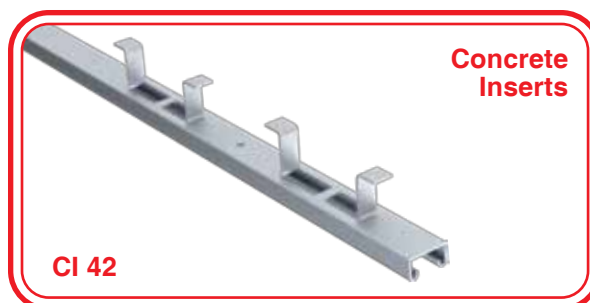
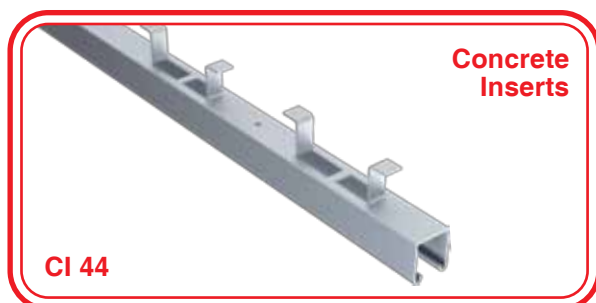
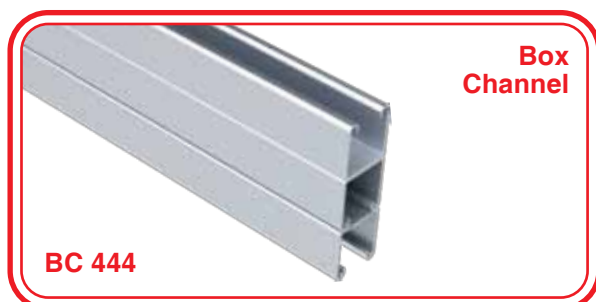
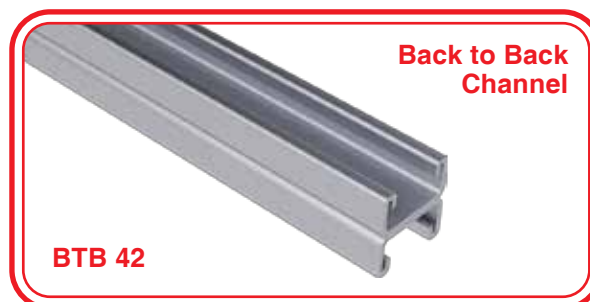
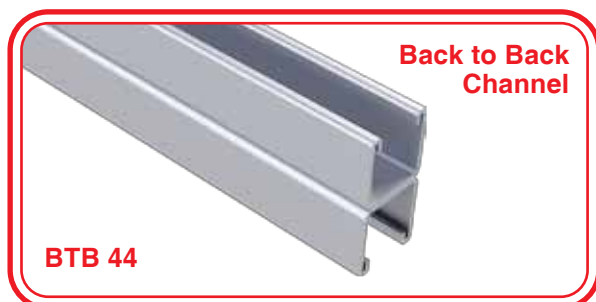
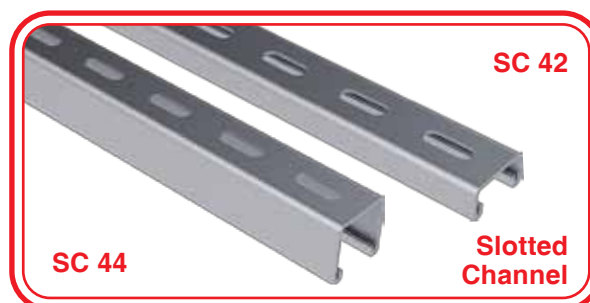
Strut channels are produced with slots also with a standard length of 3 mtrs. Extra long up to 6 mtrs. can also be produced on request.



A CABLE MANAGEMENT SYSTEM

STRUT CHANNELS

DESCRIPTION	DIMENSIONS	REFERENCE	THICKNESS (THK) mm		
Plain channel	41 x 41 x 3000 mm	PC / 44 / THK / Finish	1.5	2.0	2.5
Plain channel	41 x 21 x 3000 mm	PC / 42 / THK / Finish	1.5	2.0	2.5
Slotted channel	41 x 41 x 3000 mm	SC / 44 / THK / Finish	1.5	2.0	2.5
Slotted channel	41 x 21 x 3000 mm	SC / 42 / THK / Finish	1.5	2.0	2.5
Back to Back channel	41 x 41 x 3000 mm	BTB / 44 / THK / Finish	1.5	2.0	2.5
Back to Back channel	41 x 21 x 3000 mm	BTB / 42 / THK / Finish	1.5	2.0	2.5
Box Channel	41 x 41 x 41 x 3000 mm	BC / 444 / THK / Finish	1.5	2.0	2.5
Box Channel	41 x 41 x 21 x 3000 mm	BC / 442 / THK / Finish	1.5	2.0	2.5
Concrete Inserts	41 x 41 x 3000 mm	CI / 44 / THK / Finish		2.0	2.5
Concrete Inserts	41 x 21 x 3000 mm	CI / 42 / THK / Finish		2.0	2.5
Channel End Caps	41 x 41	CEC / 44			
Channel End Caps	41 x 21	CEC / 42			



★ All Strut Channels are produced to the standard length of 3 mts

FLAT PLATE FITTINGS

PSI 701

Square
Washer



Thickness: 6 mm

PSI 702

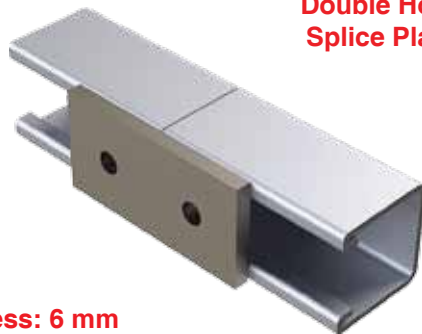
Locking Square
Washer



Thickness: 6 mm

PSI 703

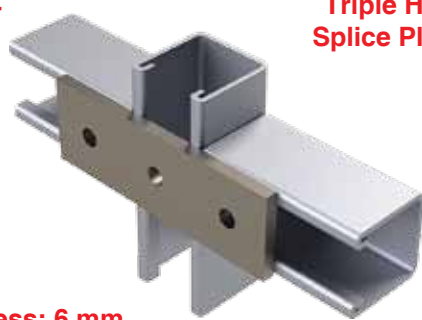
Double Hole
Splice Plate



Thickness: 6 mm

PSI 704

Triple Hole
Splice Plate



Thickness: 6 mm

PSI 705

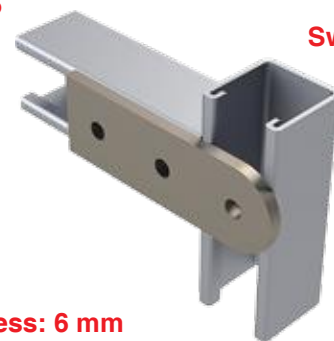
4 Hole
Splice Plate



Thickness: 6 mm

PSI 706

3 Hole
Swivel Plate



Thickness: 6 mm

PSI 707

3 Hole
Corner Plate



Thickness: 6 mm

PSI 716

Flange
Washer



Thickness: 6 mm

FLAT PLATE FITTINGS

PSI 708

4 Hole
Tee Plate



Thickness: 6 mm

PSI 709

5 Hole
Cross Plate



Thickness: 6 mm

PSI 710

3 Hole Corner
Gusset Plate



Thickness: 6 mm

PSI 711

4 Hole Corner
Gusset Plate



Thickness: 6 mm

PSI 712

5 Hole Corner
Gusset Plate



Thickness: 6 mm

PSI 713

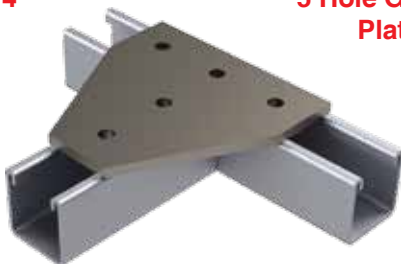
4 Hole Center
Gusset Plate



Thickness: 6 mm

PSI 714

5 Hole Gusset
Plate Tee



Thickness: 6 mm

PSI 715

7 Hole Cross
Gusset Plate



Thickness: 6 mm

ANGLE FITTINGS

PSI 102

2 Hole
Corner Angle



Thickness: 6 mm

PSI 103

3 Hole
Corner Angle



Thickness: 6 mm

PSI 104

4 Hole
Corner Angle



Thickness: 6 mm

PSI 105

Universal
Bracket



Thickness: 6 mm

PSI 106

Tee
Angle



Thickness: 6 mm

PSI 107

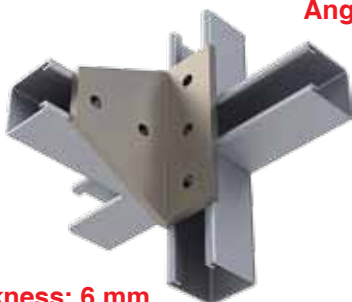
4 Hole Gusset
Shelf Angle



Thickness: 6 mm

PSI 108

5 Hole Gusset
Angle Bracket



Thickness: 6 mm

PSI 109

6 Hole Gusset
Shelf Angle



Thickness: 6 mm

A CABLE MANAGEMENT SYSTEM

WING FITTINGS

PSI 201



3 Hole Right
Corner
Connection

Thickness: 6 mm

PSI 202



3 Hole Left
Corner
Connection

Thickness: 6 mm

PSI 203



4 Hole Double
Corner
Connection

Thickness: 6 mm

PSI 204



6 Hole Double
Corner
Connection

Thickness: 6 mm

PSI 205



6 Hole
Triple Wing
Connection

Thickness: 6 mm

PSI 206



8 Hole Wing
Connection

Thickness: 6 mm

CHANNEL NUTS

DESCRIPTION	6 mm	8 mm	10 mm	12 mm
Channel Nut Without Spring	M6 / CNWS	M8 / CNWS	M10 / CNWS	M12 / CNWS
Channel Nut With Short Spring	M6 / CNSS	M8 / CNSS	M10 / CNSS	M12 / CNSS
Channel Nut With Long Spring	M6 / CNLS	M8 / CNLS	M10 / CNLS	M12 / CNLS

Z & U FITTINGS

PSI 301

U Clamp
PC 42



Thickness: 6 mm

PSI 302

U Clamp
PC 44



Thickness: 6 mm

PSI 303

5 Hole
U Support



Thickness: 6 mm

PSI 304

U Clamp
BTB 44



Thickness: 6 mm

PSI 305

5 Hole
U Support



Thickness: 6 mm

PSI 306

Z Support



Thickness: 6 mm

PSI 307

Z Support



Thickness: 6 mm

PSI 308

Z Support

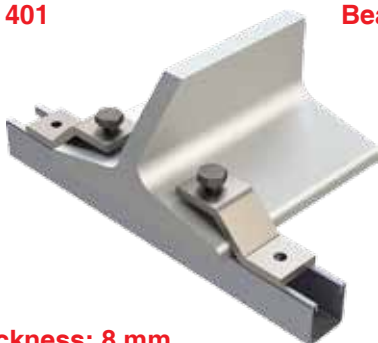


Thickness: 6 mm

BEAM CLAMPS

PSI 401

Beam Clamp
Z Type



Thickness: 8 mm

PSI 402

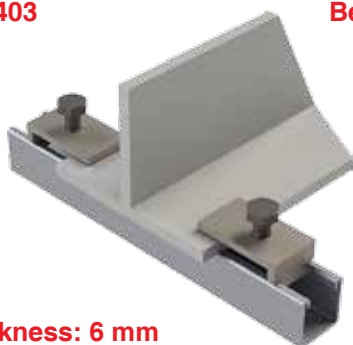
Beam Clamp



Thickness: 8 mm

PSI 403

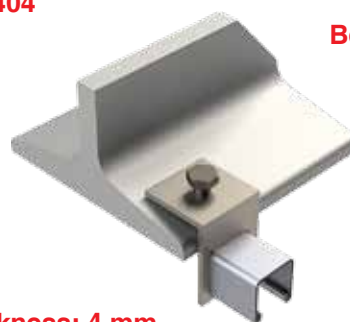
Beam Clamp



Thickness: 6 mm

PSI 404

Window
Beam Clamp



Thickness: 4 mm

PSI 405

Beam Clamp



Thickness: 6 mm

PSI 406

Beam Clamp



Thickness: 6 mm

PSI 407

Beam Clamp



Thickness: 6 mm

PSI 408

Beam Clamp



Thickness: 6 mm

PSI 409

Beam Clamp
C Type



Thickness: 2 mm

CHANNEL CONNECTORS

PSI 501

4 Hole External
Connector



Thickness: 2.5 mm

PSI 502

U Connector
PC 44



Thickness: 2.5 mm

PSI 503

U Connector
BTB 44



Thickness: 2.5 mm

PSI 504

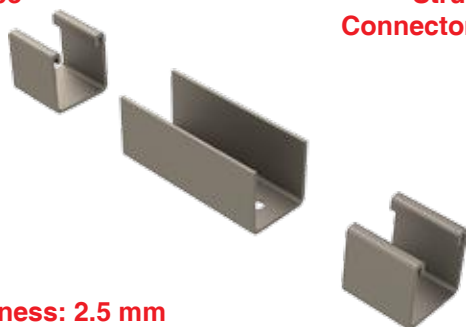
2 Hole
Open Angle



Thickness: 6 mm

PSI 505

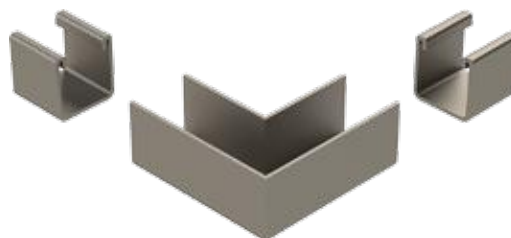
Strut
Connector



Thickness: 2.5 mm

PSI 506

Strut
Connector 90°



Thickness: 2.5 mm

PSI 507

Strut
Connector Tee



Thickness: 2.5 mm

PSI 508

Strut
Connector Cross

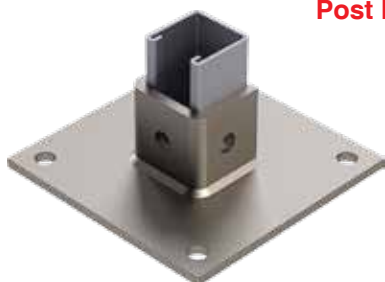


Thickness: 2.5 mm

BASE POSTS

PSI 801

3 Hole Base
Post PC 44



Thickness: 6 mm

PSI 802

3 Hole Base
Post PC 42



Thickness: 6 mm

PSI 803

6 Hole
Base Post
PC 44



Thickness: 6 mm

PSI 804

6 Hole
Base Post
PC 42



Thickness: 6 mm

PSI 805

6 Hole
Base Post
PC 44



Thickness: 6 mm

PSI 806

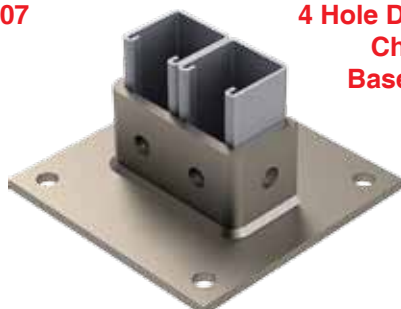
4 Hole
Base Post



Thickness: 6 mm

PSI 807

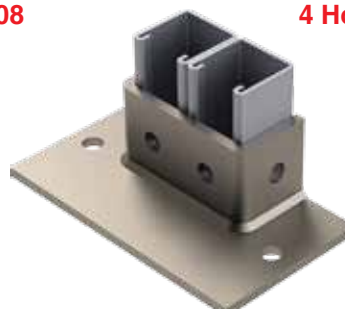
4 Hole Double
Channel
Base Post



Thickness: 6 mm

PSI 808

4 Hole Double
Channel
Base Post



Thickness: 6 mm

STRUT METAL FRAMING SYSTEMS

BASE POSTS

PSI 809

BTB High
Base Post



Thickness: 6 mm

PSI 810

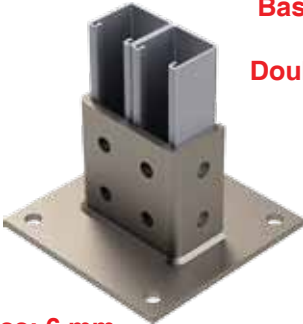
Double Channel
High Post Base



Thickness: 6 mm

PSI 811

Base Post High
PC-44
Double Channel



Thickness: 6 mm

PSI 812

Base Post
PC-44



Thickness: 6 mm

PSI 813

Gusset
Base Post



Thickness: 6 mm

PSI 814

BTB Gusset
Base Post



Thickness: 6 mm

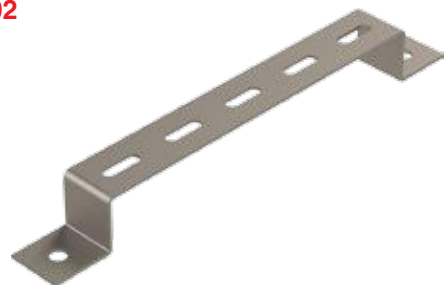
CHANNEL HANGERS

PSI 601



Thickness: 2.5 mm

PSI 602



Thickness: 4.0 mm

CANTILEVERS

DESCRIPTION	SIZE	REFERENCE
All dimensions are in mm		
Cantilever Arm	75	TYPE / CA / 75 / THK / Finish
Cantilever Arm	100	TYPE / CA / 100 / THK / Finish
Cantilever Arm	150	TYPE / CA / 150 / THK / Finish
Cantilever Arm	225	TYPE / CA / 225 / THK / Finish
Cantilever Arm	300	TYPE / CA / 300 / THK / Finish
Cantilever Arm	450	TYPE / CA / 450 / THK / Finish
Cantilever Arm	600	TYPE / CA / 600 / THK / Finish
Cantilever Arm	750	TYPE / CA / 750 / THK / Finish
Cantilever Arm	900	TYPE / CA / 900 / THK / Finish
Cantilever Arm	1000	TYPE / CA / 1000 / THK / Finish

★ For the selection of thickness refer page 2

DESCRIPTION	TYPE
Cantilever Arm	PSI 1
Cantilever Arm	PSI 2
Cantilever Arm	PSI 3
Cantilever Arm	PSI 4
Cantilever Arm	PSI 5
Cantilever Arm	PSI 6
Cantilever Arm	PSI 7
Cantilever Arm	PSI 8
Cantilever Arm	PSI 9
Cantilever Arm	PSI 10



END CAP 41 X 41



END CAP 41 X 21

STANDARD FINISHES

- HDG** Hot dip Galvanized to BS EN ISO 1461 : 2009
- PG** Pre-galvanized to BS EN 10346 : 2015
- PC** Powder Coating to suit clients requirements
- PP** Polypropylene Coating to suit clients requirements
- SS** Stainless steel finish to required grades BS EN 10088 - 2 : 2014

- ★ To order the Cantilever Arms for your designed installation, specify the type of the Cantilever that is required.
- ★ Thickness of the Cantilever is to be considered 2.0 mm if not specified.
- ★ Types are given in the table above and displayed on the next page.

CANTILEVERS

PSI 1



PSI 2



PSI 3



PSI 4



PSI 5



PSI 6



PSI 7



PSI 8



PSI 9



I BEAM SUPPORTS

PSI 901



I Support

PSI 902



I Support
Connector

PSI 903



Top Head
I Support

PSI 904



Base
Head Plate

PSI 905



Top Head
T Support

PSI 906



Base
Head Plate

PSI 907



Top
Head Plate

PSI 908



Base
Head Plate

I BEAM SUPPORTS

PSI 909



U Support

PSI 910



T Support
Bracket

PSI 911



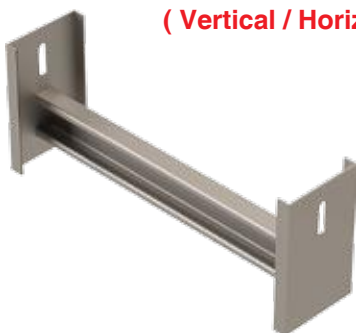
I Support
Bracket

PSI 912



U Support
Bracket

PSI 913



Joint Bracket
(Vertical / Horizontal)

PSI 914



U Support
Connector

PSI 915



Spacer



FASTENERS

Channel Nut
Short Spring



Channel Nut
Long Spring



Channel Nut
Without Spring



Machine
Screw



Hexagonal
Bolt



Roofing
Bolt



Hexagonal
Nut



Flat
Washer



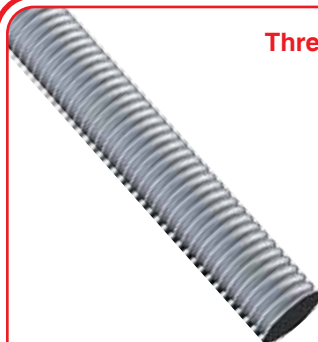
Carriage
Bolt



Threaded
Rod Connector



Threaded
Rod



U Bolt



STRUT METAL FRAMING SYSTEMS

PROPERTIES OF SECTION PROFILES

AXIS ' XX '												
Component	Moment of Inertia ' I ' mm ⁴			Section Modulus ' Z ' mm ³			Radius of Gyration ' R ' mm			Maximum Bending Moment ' M ' Nm		
	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm
PC 44	58605	75513	91181	3285	4272	5205	16.88	16.73	16.59	482.48	627.43	764.52
PC 42	7929	9819	11393	981	1241	1470	7.43	7.25	7.07	144.07	182.27	215.88
BTB 44	228178	294233	355559	7487	9767	11941	23.55	23.36	23.16	1099.60	1434.53	1753.86
BTB 42	68004	87029	104349	4099	5290	6395	15.39	15.26	15.13	602.02	776.92	939.23
BC 444	760764	988644	1204305	18833	24572	30057	35.04	34.9	34.76	2766.07	3609.08	4414.58
BC 442	500712	647930	786033	14489	18819	22916	29.97	29.82	29.66	2128.10	2763.98	3365.84

AXIS ' YY '												
Component	Moment of Inertia ' I ' mm ⁴			Section Modulus ' Z ' mm ³			Radius of Gyration ' R ' mm			Maximum Bending Moment ' M ' Nm		
	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm
PC 44	45952	58672	70200	2788	3603	4364	14.95	14.75	14.56	409.49	529.24	640.94
PC 42	34002	43514	52174	2049	2645	3197	15.39	15.26	15.13	301.01	388.46	469.61
BTB 44	117208	151028	182362	6570	8544	10410	16.88	16.73	16.59	965.01	1254.87	1529.04
BTB 42	35932	45520	54061	2401	3110	3775	11.19	11.04	10.89	352.60	456.77	554.49
BC 444	176522	227251	274253	9899	12859	15660	16.88	16.73	16.59	1453.94	1888.73	2299.99
BC 442	151918	195252	235246	8663	11232	13652	16.51	16.37	16.23	1272.43	1649.76	2005.08

LOADING TABLES

Distance between Supports mm	PLAIN CHANNEL 41 x 41 (PC 44)											
	Safe Working Load as total UDL across Span kN			UDL at L / 180 Deflection kN			UDL at L / 360 Deflection kN			Maximum Axial Column Load kN		
	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm
500	7.72	10.04	12.23							17.22	22.58	27.75
1000	3.86	5.02	6.12				2.63	3.38	4.08	14.78	19.38	23.82
1500	2.57	3.35	4.08	2.33	3.01	3.63	1.17	1.50	1.82	12.34	14.66	18.02
2000	1.93	2.51	3.06	1.31	1.69	2.04	0.66	0.85	1.02	8.87	10.45	12.84
2500	1.54	2.01	2.45	0.84	1.08	1.31	0.42	0.54	0.65	6.43	7.58	9.32
3000	1.29	1.67	2.04	0.58	0.75	0.91	0.29	0.38	0.45	4.63	5.56	6.83

Distance between supports (mm)	PLAIN CHANNEL 41 x 21 (PC 42)											
	Safe Working Load as total UDL across Span kN			UDL at L / 180 Deflection kN			UDL at L / 360 Deflection kN			Maximum Axial Column Load kN		
	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm
500	2.31	2.92	3.45				1.42	1.76	2.04	10.32	13.43	15.10
1000	1.15	1.46	1.73	0.71	0.88	1.02	0.36	0.44	0.51	4.93	6.42	7.12
1500	0.77	0.97	1.15	0.32	0.39	0.45	0.16	0.20	0.23	2.42	3.15	3.56
2000	0.58	0.73	0.86	0.18	0.22	0.26	0.09	0.11	0.13	1.61	2.10	2.56
2500	0.46	0.58	0.69	0.11	0.14	0.16	0.06	0.07	0.08	1.61	2.10	2.56
3000	0.38	0.49	0.58	0.08	0.10	0.11	0.04	0.05	0.06	1.61	2.10	2.56

Distance between supports (mm)	BACK TO BACK CHANNEL 41 x 41 (BTB 44)											
	Safe Working Load as total UDL across Span kN			UDL at L / 180 Deflection kN			UDL at L / 360 Deflection kN			Maximum Axial Column Load kN		
	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm
500	17.59	22.95	28.06							35.22	46.18	56.75
1000	8.80	11.48	14.03							33.16	43.48	53.43
1500	5.86	7.65	9.35				4.54	5.86	7.08	29.56	38.76	47.63
2000	4.40	5.74	7.02				2.56	3.29	3.98	24.68	32.36	39.76
2500	3.52	4.59	5.61	3.27	4.22	5.10	1.64	2.11	2.55	20.05	26.29	32.31
3000	2.93	3.83	4.68	2.27	2.93	3.54	1.14	1.46	1.77	15.94	20.90	22.78

A CABLE MANAGEMENT SYSTEM

LOADING TABLES

Distance between Supports mm	BACK TO BACK CHANNEL 41 x 21 (BTB 42)											
	Safe Working Load as total UDL across Span kN			UDL at L / 180 Deflection kN			UDL at L / 360 Deflection kN			Maximum Axial Column Load kN		
	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm
500	9.63	12.43	15.03							24.04	31.30	38.17
1000	4.82	6.22	7.51				3.05	3.90	4.67	20.64	26.86	32.76
1500	3.21	4.14	5.01	2.71	3.47	4.16	1.35	1.73	2.08	15.61	20.32	22.22
2000	2.41	3.11	3.76	1.52	1.95	2.34	0.76	0.97	1.17	9.87	12.85	15.67
2500	1.93	2.49	3.01	0.97	1.25	1.50	0.49	0.62	0.75	7.18	9.34	11.39
3000	1.61	2.07	2.50	0.68	0.87	1.04	0.34	0.43	0.52	5.38	7.01	8.55

Distance between Supports mm	BOX CHANNEL 41 x 41 x 41 (BC 444)											
	Safe Working Load as total UDL across Span kN			UDL at L / 180 Deflection kN			UDL at L / 360 Deflection kN			Maximum Axial Column Load kN		
	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm
500	44.26	57.75	70.63							53.45	70.01	85.98
1000	22.13	28.87	35.32							53.06	69.50	85.35
1500	14.75	19.25	23.54							49.96	65.44	80.37
2000	11.06	14.44	17.66				8.52	11.07	13.49	47.64	62.4	76.63
2500	8.85	11.55	14.13				5.45	7.09	8.63	41.05	53.77	66.04
3000	7.38	9.62	11.77				3.79	4.92	5.99	37.18	48.70	59.81

Distance between Supports mm	BOX CHANNEL 41 x 41 x 21 (BC 442)											
	Safe Working Load as total UDL across Span kN			UDL at L / 180 Deflection kN			UDL at L / 360 Deflection kN			Maximum Axial Column Load kN		
	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm
500	34.05	44.22	53.85							48.09	62.86	77.05
1000	17.02	22.11	26.93							46.70	61.04	74.82
1500	11.35	14.74	17.95				9.97	12.90	15.65	42.86	56.03	68.67
2000	8.51	11.06	13.46				5.61	7.26	8.80	40.07	52.39	64.21
2500	6.81	8.84	10.77				3.59	4.64	5.63	33.45	43.73	53.60
3000	5.67	7.37	8.98	4.98	6.45	7.83	2.49	3.22	3.91	27.18	35.53	43.55

★ The values mentioned in the table in red colour indicate the Slender Sections

★ In case of no values mentioned the load as per the respective safe working load shall be considered

Important notes on loading data supplied: Loads have been treated as imposed loads in accordance with BS 5950 with a load factor of 1.6

Beam Load Assumptions

- ★ Beams are simply supported over span L.
- ★ Load is applied perpendicular to the axis XX.
- ★ There is lateral restraint to the beams.
- ★ No restriction to loads which may exceed slip resistance of bracket fixings.

Column Load Assumptions

- ★ Distance between supports is the "effective length" of column.
- ★ Slenderness ratio is calculated with the lesser value of radius of gyration of the profile, and restricted to $L/r < 180$.
- ★ In practical assembly conditions, using brackets, it will be necessary to calculate the bending moment and combine with axial column loading to establish a safe working load.

PULL OUT LOADS

Strut Channel Bolt (Grade 4.6)	Recommended Maximum Load kN (0.8 x A _t x P _t)
M12	16.18
M10	11.13
M8	7.03
M6	3.86

Resistance to Slip:

- ★ To provide resistance to slip at bolted connections it is recommended that M12 set bolt (Gr. 4.6) should be used with M12 strut channel nuts, torque tightened to 40 N-m
- ★ The loading data for bracket connection is given with other data on brackets, this incorporates resistance to slip.

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