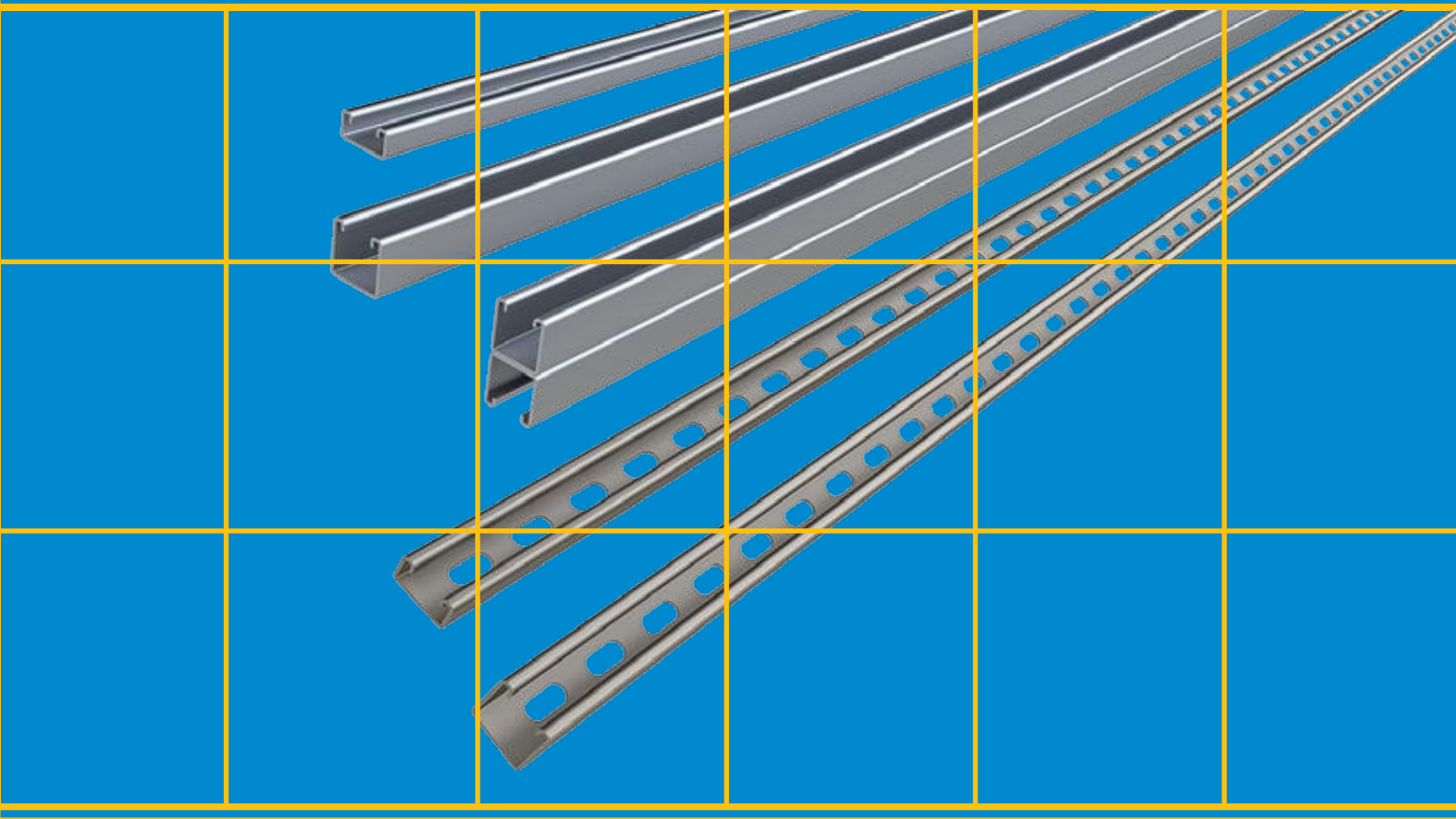
Power Solution Industries

DESIGN, ENGINEERING & MANUFACTURING COMPANY



PRODUCT CATALOGUE

BSI KITEMARK

ISO 9001 14001 45001 CERTIFIED

STRUT METAL FRAMING SYSTEMS

CONTENTS

EDITION 2022

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 comprehensivily 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)

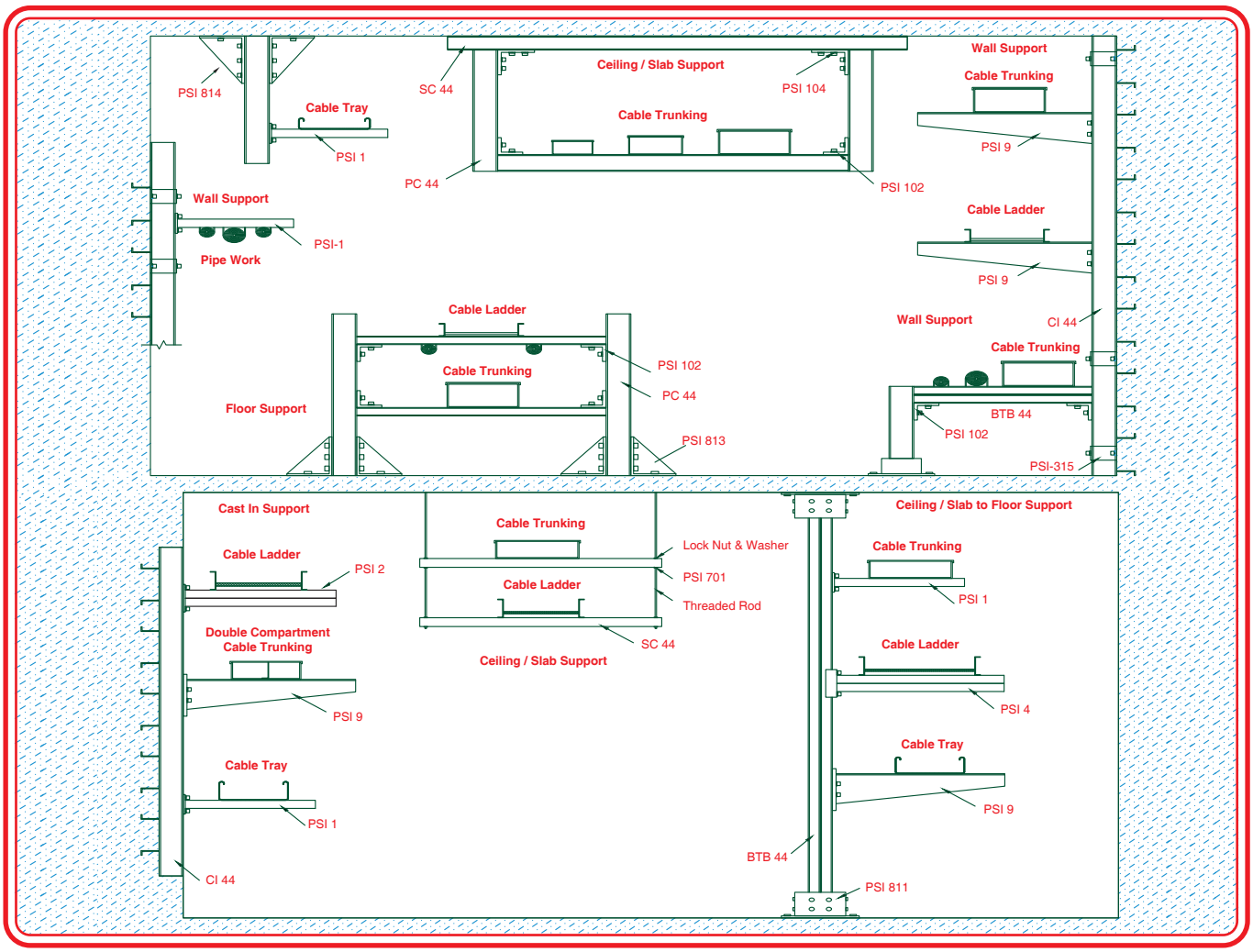
The Power Solution Industries Strut Metal Framing System incorporates the following features:

- ★ 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



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

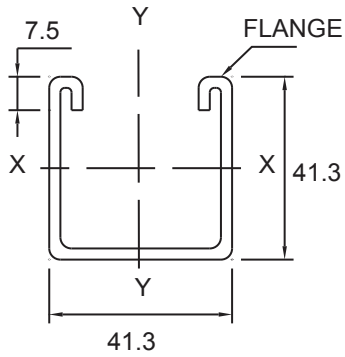
BOX CHANNEL 41 X 41 X 21 (BC 442)

Material thickness : 1.5 / 2.0 / 2.5 mm

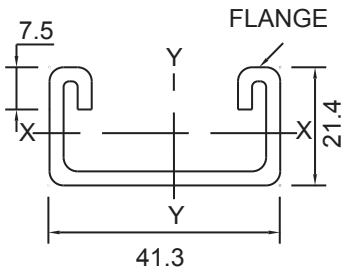
Weight : 4.26 / 5.68 / 7.10 Kgs/m

SLOT PATTERNS

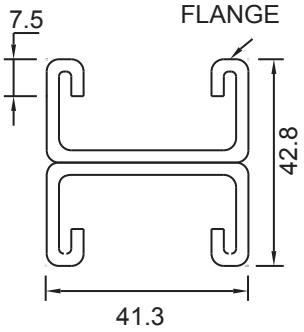
Strut channels are produced with slots also with a standard length of 3 mtrs. Extra long up to 6 mtrs. can also be produced on request.



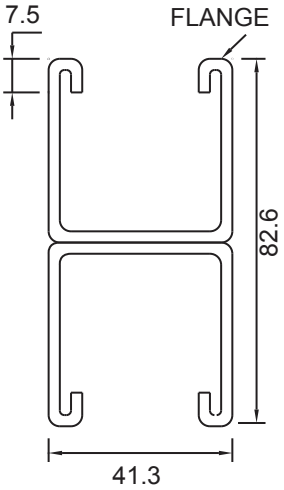
PC 44



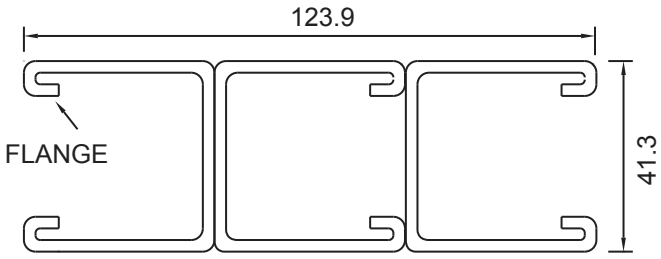
PC 42



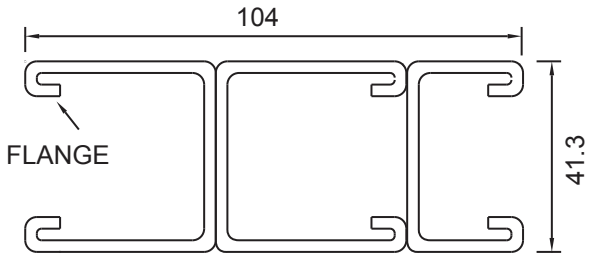
BTB 42



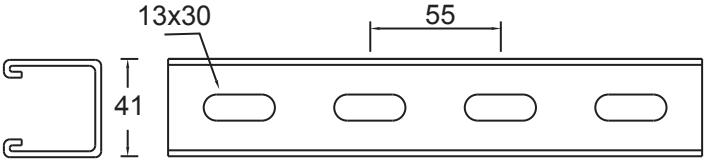
BTB 44



BC 444



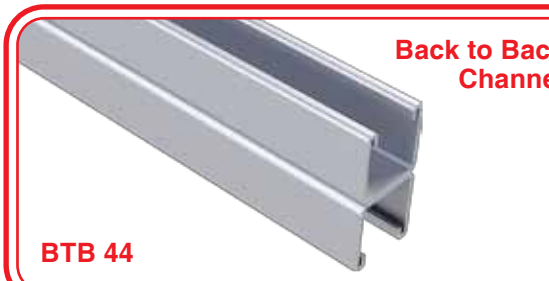
BC 442

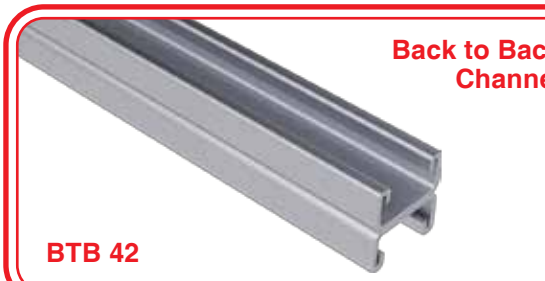


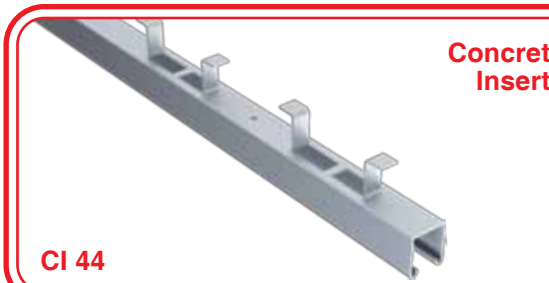
SLOT PATTERNS

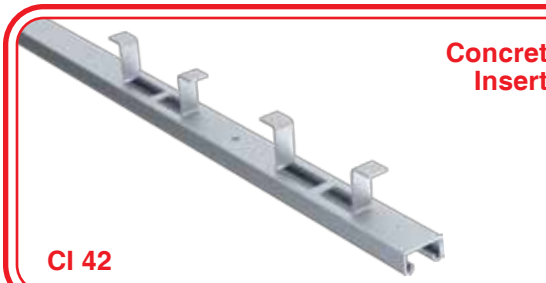
STRUT CHANNELS

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			





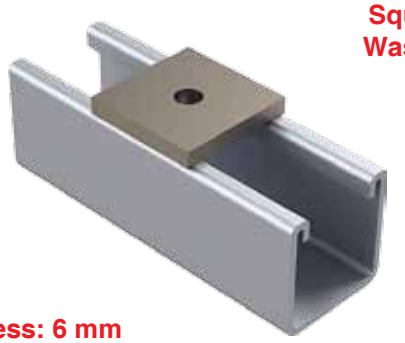




★ *All Strut Channels are produced to the standard length of 3 mts*

FLAT PLATE FITTINGS

PSI 701 — **Square Washer**

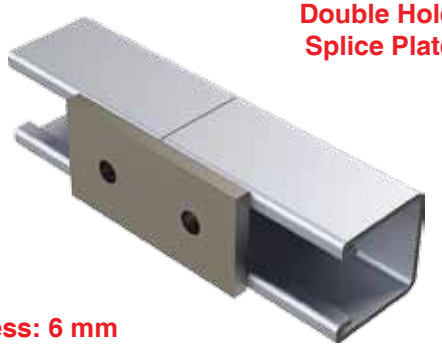


Thickness: 6 mm

PSI 702 — **Locking Square Washer**

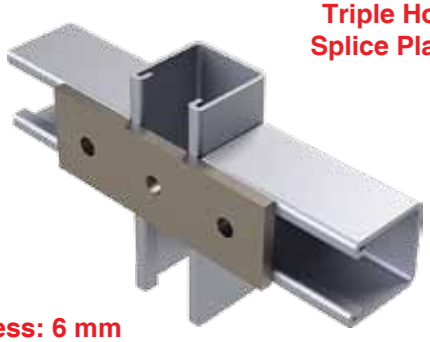
Thickness: 6 mm

PSI 703 — **Double Hole Splice Plate**



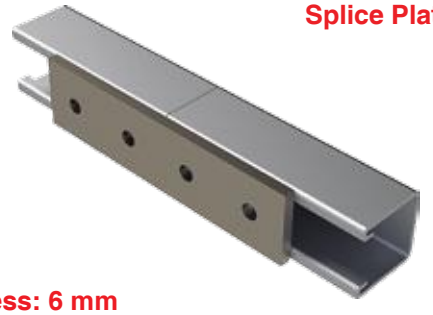
Thickness: 6 mm

PSI 704 — **Triple Hole Splice Plate**



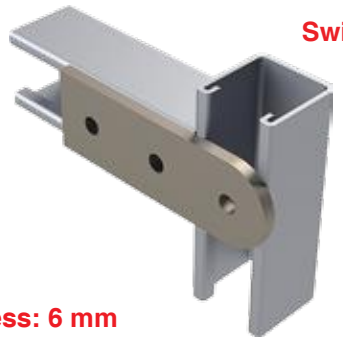
Thickness: 6 mm

PSI 705 — **4 Hole Splice Plate**



Thickness: 6 mm

PSI 706 — **3 Hole Swivel Plate**

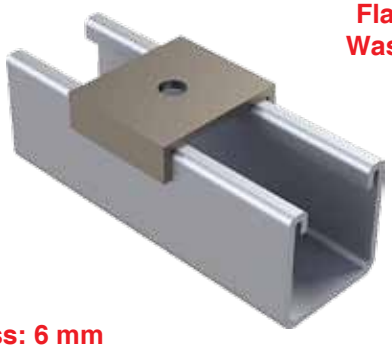


Thickness: 6 mm

PSI 707 — **3 Hole Corner Plate**

Thickness: 6 mm

PSI 716 — **Flange Washer**



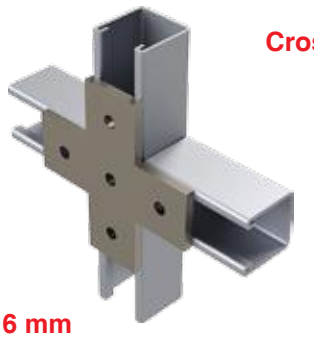
Thickness: 6 mm

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

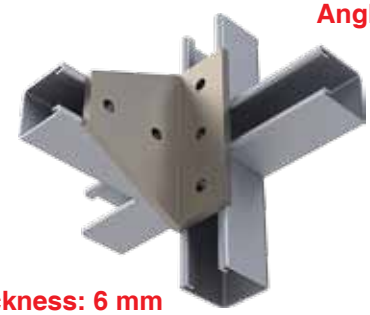
PSI 106 — **Tee Angle**

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

WING FITTINGS

PSI 201 — **3 Hole Right Corner Connection**

Thickness: 6 mm

PSI 202 — **3 Hole Left Corner Connection**

Thickness: 6 mm

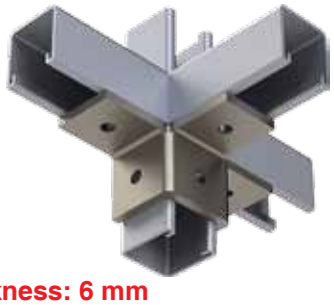
PSI 203 — **4 Hole Double Corner Connection**

Thickness: 6 mm

PSI 204 — **6 Hole Double Corner Connection**

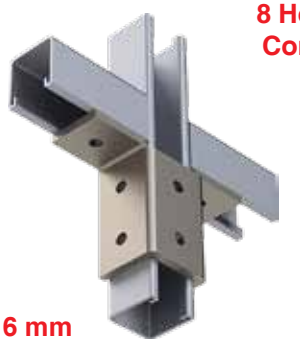
Thickness: 6 mm

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

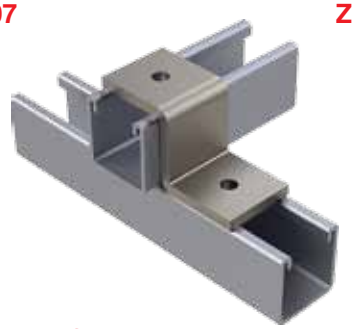
PSI 305 — **5 Hole U Support**

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

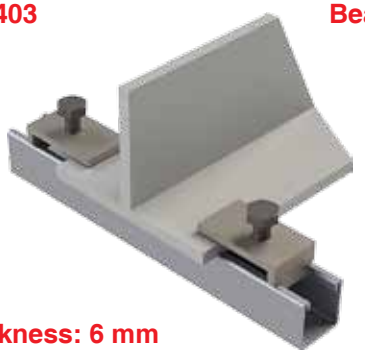
PSI 401 Beam Clamp Z Type

Thickness: 8 mm

PSI 402 Beam Clamp

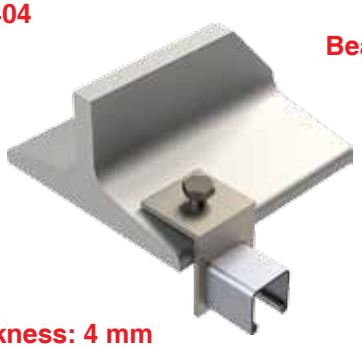
Thickness: 8 mm

PSI 403 Beam Clamp



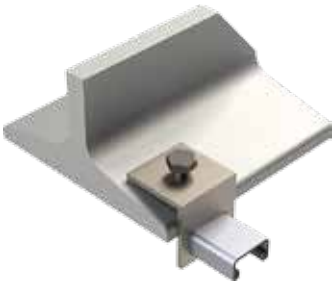
Thickness: 6 mm

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

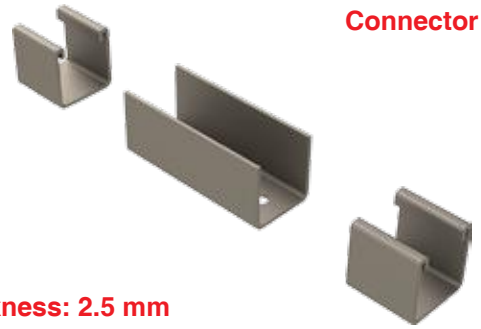
PSI 503 — U Connector BTB 44

Thickness: 2.5 mm

PSI 504 — 2 Hole Open Angle

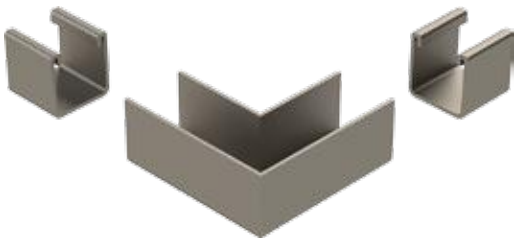
Thickness: 6 mm

PSI 505 — Strut Connector



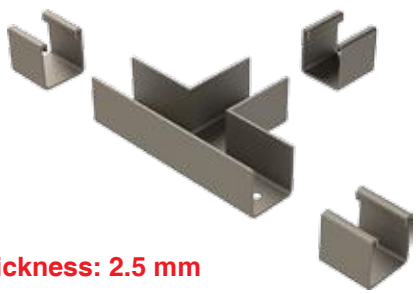
Thickness: 2.5 mm

PSI 506 — Strut Connector 90^0



Thickness: 2.5 mm

PSI 507 — Strut Connector Tee



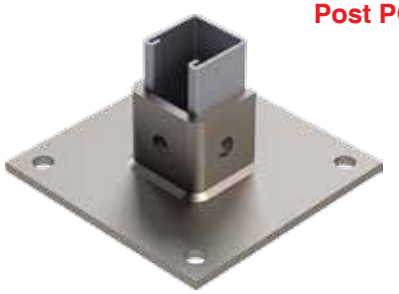
Thickness: 2.5 mm

PSI 508 — Strut Connector Cross

Thickness: 2.5 mm

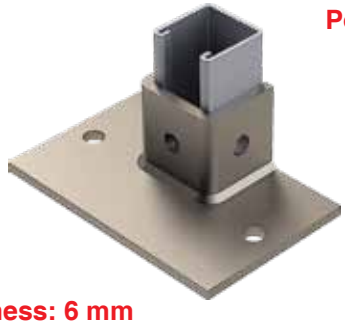
BASE POSTS

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

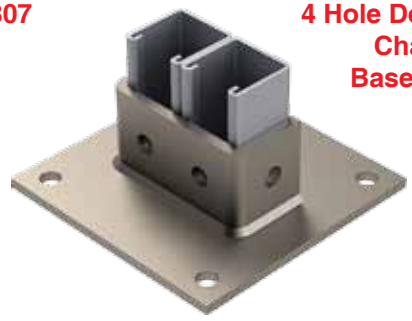
PSI 805 — 6 Hole Base Post PC 44

Thickness: 6 mm

PSI 806 — 4 Hole Base Post

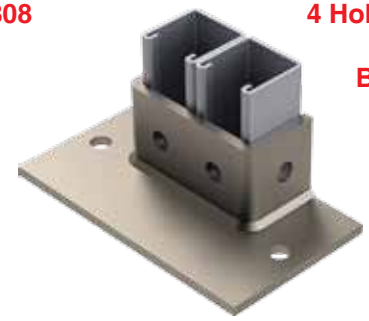
Thickness: 6 mm

PSI 807 — 4 Hole Double Channel Base Post



Thickness: 6 mm

PSI 808 — 4 Hole Double Channel Base Post



Thickness: 6 mm

BASE POSTS

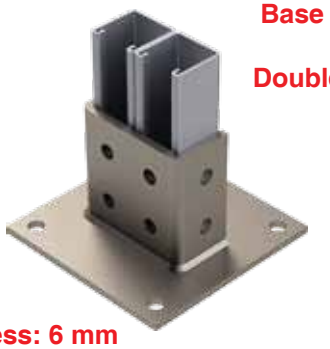
PSI 809 — **BTB High Base Post**

Thickness: 6 mm

PSI 810 — **Double Channel High Post Base**

Thickness: 6 mm

PSI 811 — **Base Post High PC-44 Double Channel**

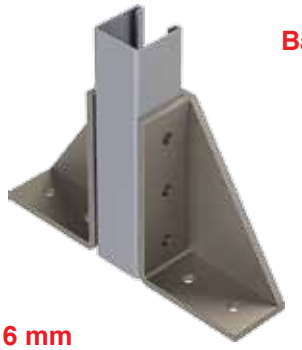


Thickness: 6 mm

PSI 812 — **Base Post PC-44**

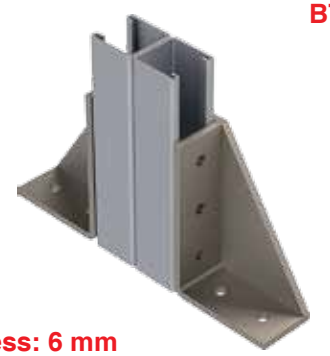
Thickness: 6 mm

PSI 813 — **Gusset Base Post**



Thickness: 6 mm

PSI 814 — **BTB Gusset Base Post**



Thickness: 6 mm

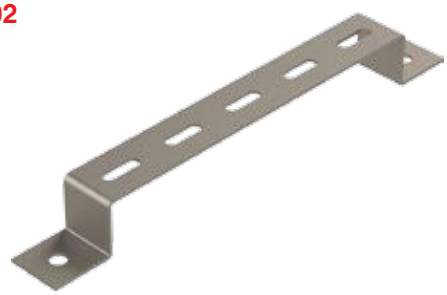
CHANNEL HANGERS

PSI 601

Thickness: 2.5 mm

FLOOR BRACKET

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 Polypropelene 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

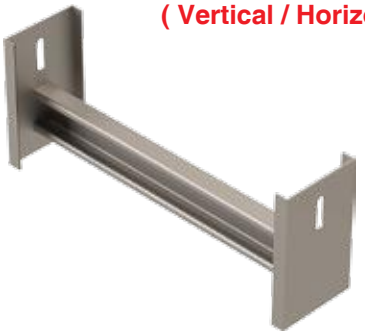
PSI 909 — **U Support**

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

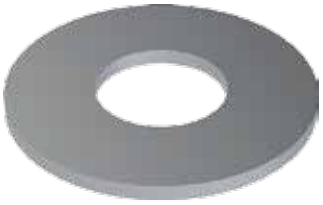
Machine
Screw

Hexagonal
Bolt

Roofing
Bolt

Hexagonal
Nut

Flat
Washer



Carriage
Bolt

Threaded
Rod Connector

Threaded
Rod

U Bolt

PROPERTIES OF SECTION PROFILES

Component	AXIS ' XX '											
	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

Component	AXIS ' YY '											
	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

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 ($0.8 \times A_t \times P_t$)
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, thiis incoperates resistance to slip.

QUALITY CERTIFICATIONS

bsi.

Kitemark™ Certificate

This is to certify that: Power Solution Industries L.L.C
D 13, D Block
Phase 3, Dubai Industrial City
P O BOX: 113403
Dubai
United Arab Emirates

Holds Certificate Number: KM 662960

In respect of:
Cable Management
Cable Management, Support and Containment Systems

This issues the right and licence to use the Kitemark in accordance with the Kitemark Terms and Conditions governing the use of the Kitemark, as may be updated from time to time by BSI Assurance UK Ltd (the "Conditions"). All defined terms in this Certificate shall have the same meaning as in the Conditions.

The use of the Kitemark is authorized in respect of the Product(s) detailed on this Certificate provided at or from the above address.

For and on behalf of BSI: Chris Lewis - Certification Director, Product Certification

First Issued: 2018-06-06 Effective Date: 2020-12-21
Latest Issue: 2020-12-21 Expiry Date: 2021-06-05

Page: 1 of 6

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bsi.

Kitemark™ Certificate

This is to certify that: Power Solution Industries Ltd
P.O. Box 245458
Obeikan Industrial City
Industrial Area 2
Riyadh 11312
Kingdom of Saudi Arabia

Holds Certificate Number: KM 695353

In respect of:
Cable Management
Cable Management, Support and Containment Systems

This issues the right and licence to use the Kitemark in accordance with the Kitemark Terms and Conditions governing the use of the Kitemark, as may be updated from time to time by BSI Assurance UK Ltd (the "Conditions"). All defined terms in this Certificate shall have the same meaning as in the Conditions.

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For and on behalf of BSI: Chris Lewis - Certification Director, Product Certification

First Issued: 2018-06-06 Effective Date: 2018-06-06
Latest Issue: 2018-06-06 Expiry Date: 2021-06-05

Page: 1 of 6

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DNV

MANAGEMENT SYSTEM CERTIFICATE

This is to certify that the management system of
Power Solution Industries LLC.
P. O. Box: 113403, D1-D5 and D13-D17, D Block, DI Phase 3, Dubai Industrial City, Dubai, United Arab Emirates

has been found to conform to the Quality Management System standard:
ISO 9001:2015

This certificate is valid for the following scope:
Manufacture and Supply of Cable Trays, Cable Ladders, Cable Trunking, Cable Support Accessories and Related Cable Management Systems for Engineering Projects. Design, Fabrication and Supply of Solar Panel Mounting Structures. Fabrication and Supply of Structural Steels.

DNV

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Power Solution Industries LLC.
P. O. Box: 113403, D1-D5 and D13-D17, D Block, DI Phase 3, Dubai Industrial City, Dubai, United Arab Emirates

has been found to conform to the Environmental Management System standard:
ISO 14001:2015

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has been found to conform to the Occupational Health and Safety Management System standard:
ISO 45001:2018

This certificate is valid for the following scope:
Manufacture and Supply of Cable Trays, Cable Ladders, Cable Trunking, Cable Support Accessories and Related Cable Management Systems for Engineering Projects. Design, Fabrication and Supply of Solar Panel Mounting Structures. Fabrication and Supply of Structural Steels.

DNV·GL

MANAGEMENT SYSTEM CERTIFICATE

This is to certify that the management system of
Power Solution Industries Ltd.
P.O. Box: 245458, Obeikan Industrial City, Unit No: 05, Building No: 4619, 2nd. Industrial City, New Al-Kharj Road, Riyadh 14336, Saudi Arabia,

has been found to conform to the Quality Management System standard:
ISO 9001:2015

This certificate is valid for the following scope:
Manufacture and supply of Cable Trays, Cable Ladders, Cable Trunking, Cable Support Accessories and related Cable Management Systems for Engineering Projects

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Quality Policy

"Excellence in Engineering"

Quality Policy

"Excellence in Engineering"

DESIGN, ENGINEERING & MANUFACTURING COMPANY

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Engineered to Excellence

Power Solution Industries