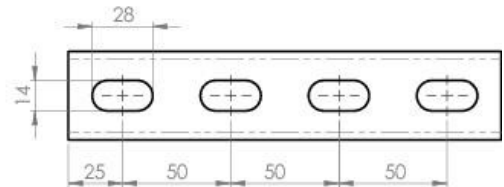
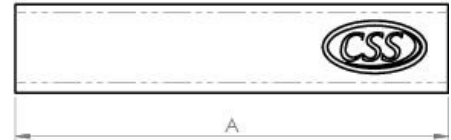
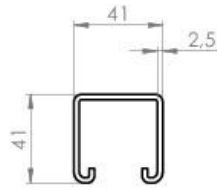
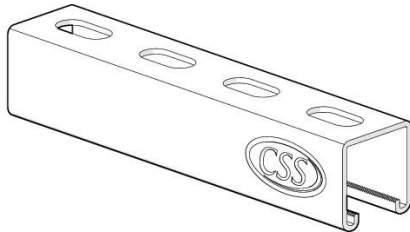


# Product Data Sheet

Part Number - CSS41/S/2.5



## SLOTTED



## Standard

The CSS Strut metal framing system is manufactured to conform to BS6946:1988, the British Standard Specification for Metal channel cable support systems for electrical installations.

## Material

Mild Steel BS EN 10025 with a yield of 280N/mm<sup>2</sup> and Ultimate tensile strength of 370N/mm<sup>2</sup>

Stainless Steel from BS EN 10088-2 Grade 1.4404 (316)

## Material Finishes

PG	Pre Galvanised— BS EN 10326
HD	Hot Dip Galvanised – BS EN ISO 1461
SS	Stainless Steel – Self Colour BSEN 10088 (316)
ZP	Zinc Plated - Zinc Electroplated to BS 3382
ZD	Zinc Dicromate—Used in Data Centres

## Standard Lengths

From stock this product is available in 6m and 3m

Other lengths are available upon request.

## Weight

2.73kgs per metre (2.5mm) Thickness

Kindly refer to our Catalogue and Terms and Conditions for further details

**CSS Support Systems (Warrington)**

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**Approved**

**JAH**

E&OE

# Product Data Sheet

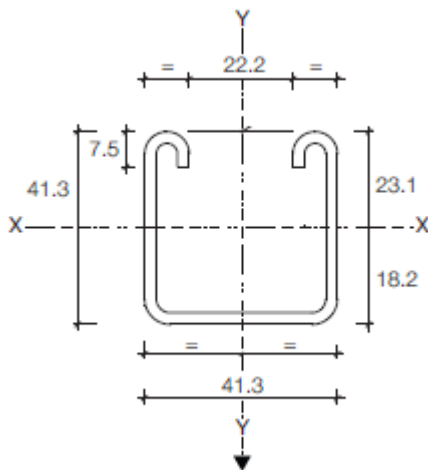
Part Number - CSS41/S/2.5



## Mechanical Guide 41x41x2.5mm Slotted Channel

Span or Column Unsupported Length in mm	(A)Uniform Load at 175N/mm <sup>2</sup> Stress kg	(A)Deflection in mm at 175Nmm <sup>2</sup>	(B)Uniform Load at Maximum Deflection of 1/200th Span kg.	(C)Uniform Load at Maximum Deflection of 1/360th Span kg.	(D) Maximum Load of Column Loaded @Centroid kg.	Maximum Load of Column Loaded @Slot Face kg.
250	1638	70.23	—	—	5351	1660
500	819	1.05	—	—	5100	1635
750	546	2.35	—	483	4412	1557
1000	409	4.18	—	271	3284	1389
1250	327	6.54	313	174	2436	1211
1500	273	8.41	2.17	120	1899	1062
1750	234	12.81	159	88	1546	941
2000	204	16.73	122	67	1297	843
2250	182	21.18	96	53	1113	761
2500	163	26.15	78	43	970	691
2750	148	31.64	64	35	(855)	(631)
3000	136	37.65	54	30	(761)	(578)

## Sectional Properties



Area Of Section

Elements of Section Axis X-X

Elements of Section Axis Y-Y

CM <sup>2</sup>	1cm <sup>4</sup>	Zcm <sup>3</sup>	Cm	1cm <sup>4</sup>	Zcm <sup>3</sup>	cm
3.00	6.10	2.87	1.42	1.42	4.44	1.74

Data is based upon uniformly distributed loads. Safety factor 1.6 for beam loading and 1.4 for column loading (at centroid of section). Stress 187N/mm<sup>2</sup>.

Beam loads are calculated from the column face and effective length in BS5950.

(A) - Max safe working load recommended when deflection is not critical, especially on larger spans.

(B) - Deflection 1/200<sup>th</sup> of span recommended when deflection should be limited.

(C) - Deflection 1/360<sup>th</sup> of span recommended where deflections are critical.

(D) - Column load when channel is used as a column rather than beam.

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