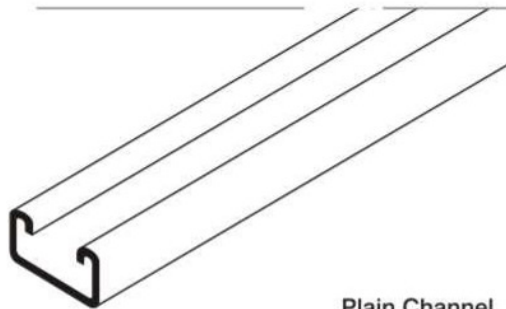
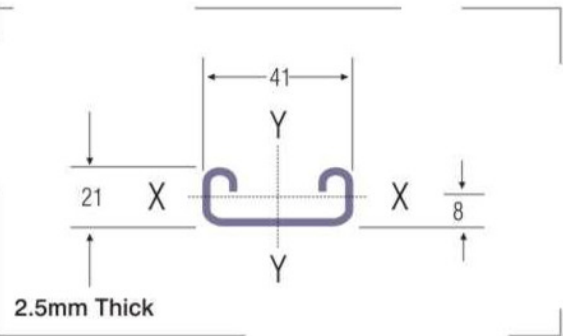


MECHANICAL GUIDE

CSS21/P/2.5



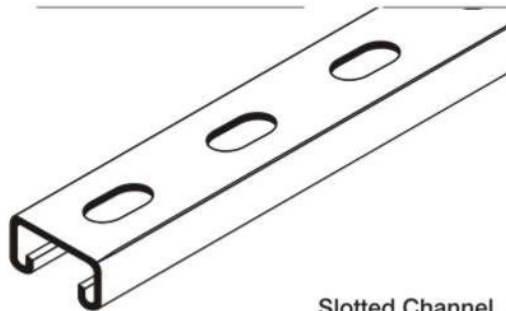
Plain Channel



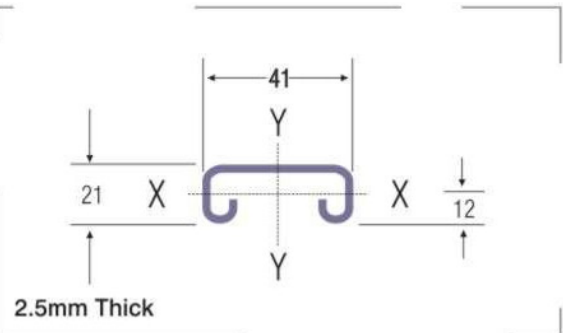
2.5mm Thick

Span or Column Unsupported High in mm	Uniform Load at 175 N/mm <sup>2</sup> Stress. Kg	Deflection in mm at 175N/mm <sup>2</sup>	Uniform Load at Max. Deflec. of 1/200th. Span. Kg	Uniform Load at Max. Deflec. of 1/360th. Span. Kg	Max. Load of Column Loaded @ Centroid kg	Max. Load of Column Loaded @ slot face kg
250	553	0.45	-	-	3993	1042
500	276	1.81	-	212	3379	995
750	184	4.07	169	94	2198	859
1000	138	7.24	95	53	1353	690
1250	110	11.32	61	33	896	548
1500	92	16.30	42	23	(634)	(437)
1750	79	22.19	31	-	(471)	(353)
2000	69	28.99	23	-	-	-

CSS21/S/2.5



Slotted Channel



2.5mm Thick

Span or Column Unsupported High in mm	Uniform Load at 175 N/mm <sup>2</sup> Stress. Kg	Deflection in mm at 175N/mm <sup>2</sup>	Uniform Load at Max. Deflec. of 1/200th. Span. Kg	Uniform Load at Max. Deflec. of 1/360th. Span. Kg	Max. Load of Column Loaded @ Centroid kg	Max. Load of Column Loaded @ slot face kg
250	508	0.50	-	-	-	-
500	254	2.01	-	174	-	-
750	169	4.54	139	77	-	-
1000	127	8.07	78	43	-	-
1250	101	12.61	50	27	-	-
1500	84	18.71	34	-	-	-
1750	72	24.73	25	-	-	-
2000	63	32.30	-	-	-	-

Series	Weight	Material Thickness	Standard Lengths		Finishes				Area of Section	Elements of Section Axis X-X				Elements of Section Axis Y-Y		
			3m	6m	PO	PG	GA	SS		cm <sup>2</sup>	1cm <sup>4</sup>	Zcm <sup>3</sup>	r cm	1cm <sup>4</sup>	Zcm <sup>3</sup>	r cm
CSS 21/P	1.91	2.5	●	●	●	●	●	●	2.32	1.19	0.97	0.71	5.34	2.59	1.51	
CSS 21/S	1.76	2.5	●	●	●	●	●	●	1.97	0.98	0.89	0.70	5.29	2.56	1.63	

Load shown in brackets indicates slenderness ratio >180 <250

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