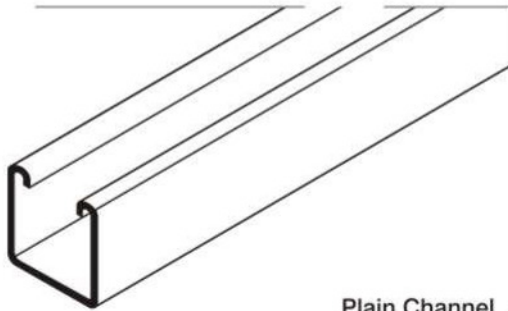


MECHANICAL GUIDE

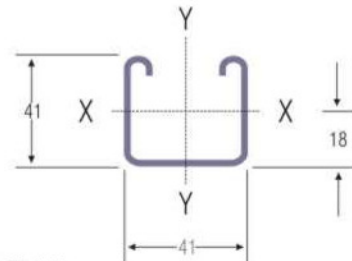
CHANNEL SECTIONS ARE AVAILABLE IN 2.5mm & 1.5mm THICKNESS

CSS41/P/2.5



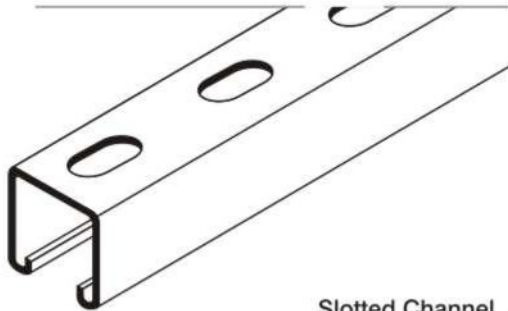
Plain Channel

2.5mm Thick



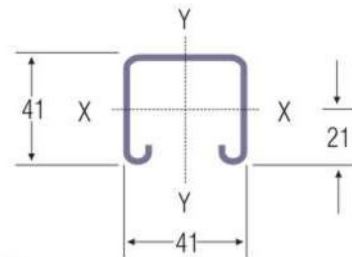
Span or Column Unsupported High in mm	Uniform Load at 175 N/mm ² Stress. Kg	Deflection in mm at 175N/mm ²	Uniform Load at Max. Deflec. of 1/200th. Span. Kg	Uniform Load at Max. Deflec. of 1/360th. Span. Kg	Max. Load of Column Loaded @ Centroid kg	Max. Load of Column Loaded @ slot face kg
C250	1769	0.23	-	-	5869	1693
500	884	0.95	-	-	5379	1650
750	589	2.15	-	571	4479	1554
1000	442	3.82	-	321	3373	1395
1250	353	5.97	-	205	2556	1232
1500	294	8.60	257	142	2020	1093
1750	252	11.70	188	104	1656	976
2000	221	15.29	144	80	1395	879
2250	196	19.35	114	63	1198	797
2500	176	23.89	92	51	1044	725
2750	160	28.91	76	42	(919)	(663)
3000	147	34.40	64	35	(816)	(607)

CSS41/S/2.5



Slotted Channel

2.5mm Thick



Span or Column Unsupported High in mm	Uniform Load at 175 N/mm ² Stress. Kg	Deflection in mm at 175N/mm ²	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	1638	0.27	-	-	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	2.41	217	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)

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 ²	1cm ⁴	Zcm ³	cm	1cm ⁴	Zcm ³
CSS 41/P	2.88	2.5	●	●	●	●	●	●	3.35	7.21	3.10	1.46	9.23	4.47	1.66
CSS 41/S	2.73	2.5	●	●	●	●	●	●	3.00	6.10	2.87	1.42	1.42	4.44	1.74

Load shown in brackets indicates slenderness ratio > 180 < 250