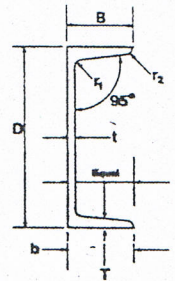


CHANNELS

DIMENSIONS AND PROPERTIES To BS 4: Part 1: 1980



Inside slope 5°

Designation				Thickness						Web	Ratios for Local Buckling		Moment of inertia	
Serial size	Mass per metre	Depth of Section D	Width of Section B	Web t	Flange T	Distance of Cy	Root radius r ₁	Toe radius r ₂	Depth between fillets d	Flange b/T	Web d/t	Axis x-x	Axis y-y	
mm	kg	mm	mm	mm	mm	cm	mm	mm	mm			cm ⁴	cm ⁴	
432 x 102	65.54	431.8	101.6	12.2	16.8	2.32	15.2	4.8	362.5	6.05	29.7	21399	628.6	
381 x 102	55.10	381.0	101.6	10.4	16.3	2.52	15.2	4.8	312.6	6.23	30.0	14894	579.7	
305 x 102	46.18	304.8	101.6	10.2	14.8	2.66	15.2	4.8	239.3	6.86	23.5	8214	499.5	
305 x 89	41.69	304.8	88.9	10.2	13.7	2.18	13.7	3.2	245.4	6.49	24.1	7061	325.4	
254 x 89	35.74	254.0	88.9	9.1	13.6	2.42	13.7	3.2	194.7	6.54	21.4	4448	302.4	
254 x 76	28.29	254.0	75.2	8.1	10.9	1.86	12.2	3.2	203.9	6.99	25.2	3367	162.6	
229 x 89	32.76	228.6	88.9	8.6	13.3	2.53	13.7	3.2	169.9	6.68	19.7	3387	285.0	
229 x 76	26.06	228.6	76.2	11.2	2.00	12.2	3.2	177.8	6.80	23.4	26.10	158.7		
203 x 89	29.78	203.2	88.9	8.1	12.9	2.65	13.7	3.2	145.2	6.89	17.9	2491	264.4	
203 x 76	<u>23.82</u>	203.2	76.2	7.1	11.2	2.13	12.2	3.2	152.4	6.80	21.5	1950	151.3	
178 x 89	26.81	177.8	88.9	7.6	12.3	2.76	13.7	3.2	121.0	7.23	15.9	1753	241.0	
178 x 76	20.84	177.8	76.2	6.6	10.3	2.20	12.2	3.2	128.8	7.40	19.5	1337	134.0	
152 x 89	<u>23.84</u>	152.4	88.9	7.1	11.6	2.86	13.7	3.2	96.9	7.66	13.7	1166	215.1	
152 x 76	17.88	152.4	76.2	6.4	9.0	2.21	12.2	2.4	105.9	8.47	16.5	851.5	113.8	
127 x 64	14.90	127.0	63.5	6.4	9.2	1.94	10.7	2.4	84.0	6.90	13.1	482.5	67.23	
100 x 50	7.36	100.0	50.0	5.0	7.5	1.55	8	-	-	-	-	189	26.9	
75 x 40	6.92	75.0	40.0	5.0	7.0	1.57	8	4	-	-	-	75.9	12.4	