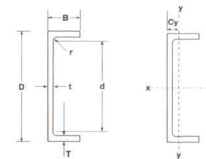


# Parallel Flange Channels

Dimensions and properties to BS 4: Part 1: 1993

100 x 50 x 10 - 430 x 100 x 64



Designation Serial Size	Mass per metre kg/m	Depth of Section D mm	Width of Section B mm	Thickness of Web t mm	Thickness of Flange T mm	Distance of Cy cm	Root Radius r mm	Depth between fillets d mm	Ratios for Local Buckling		Second Moment of Area		Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter u	Torsional Index x	Warping Constant H dm <sup>4</sup>	Torsional Constant J cm <sup>4</sup>	Area of Section cm <sup>2</sup>
									Flange B/2T	Web d/t	Axis x-x cm <sup>4</sup>	Axis y-y cm <sup>4</sup>	Axis x-x cm	Axis y-y cm	Axis x-x cm <sup>3</sup>	Axis y-y cm <sup>3</sup>	Axis x-x cm <sup>3</sup>	Axis y-y cm <sup>3</sup>					
<b>100 x 50</b> x 10	10.20	100.00	50.00	5.50	8.50	1.73	9.00	65.00	5.88	13.00	208.00	32.30	4.00	1.58	41.50	9.89	48.90	17.50	0.94	10.00	0.00050	2.53	13.00
<b>125 x 65</b> x 15	14.80	125.00	65.00	5.50	9.50	2.25	12.00	82.00	6.84	14.90	483.00	80.00	5.07	2.06	77.30	18.80	89.90	33.20	0.94	11.10	0.00190	4.72	18.80
<b>150 x 75</b> x 18	17.90	150.00	75.00	5.50	10.00	2.58	12.00	106.00	7.50	19.30	861.00	131.00	6.15	2.40	115.00	26.60	132.00	47.20	0.95	13.10	0.00470	6.10	22.80
<b>150 x 90</b> x 24	23.90	150.00	90.00	6.50	12.00	3.30	12.00	102.00	7.50	157.00	1162.00	253.00	6.18	2.89	155.00	44.40	179.00	76.90	0.94	10.80	0.00890	11.80	30.40
<b>180 x 75</b> x 20	20.30	180.00	75.00	6.00	10.50	2.41	12.00	135.00	7.14	22.50	1370.00	146.00	7.27	2.38	152.00	28.80	176.00	51.80	0.95	15.30	0.00750	7.34	25.90
<b>180 x 90</b> x 26	26.10	180.00	90.00	6.50	12.50	3.17	12.00	131.00	7.20	20.20	1817.00	277.00	7.40	2.89	202.00	47.40	232.00	83.50	0.95	12.80	0.01410	13.30	33.20
<b>200 x 75</b> x 23	23.40	200.00	75.00	6.00	12.50	2.48	12.00	151.00	6.00	25.20	1963.00	170.00	8.11	2.39	196.00	33.80	227.00	60.60	0.96	14.80	0.01070	11.10	29.90
<b>200 x 90</b> x 30	29.70	200.00	90.00	7.00	14.00	3.12	12.00	148.00	6.43	21.10	2523.00	314.00	8.16	2.88	252.00	53.40	291.00	94.50	0.95	12.90	0.01970	18.30	37.90
<b>230 x 75</b> x 26	25.70	230.00	75.00	6.50	12.50	2.30	12.00	181.00	6.00	27.80	2748.00	181.00	9.17	2.35	239.00	34.80	278.00	63.20	0.95	17.30	0.01530	11.80	32.70
<b>230 x 90</b> x 32	32.20	230.00	90.00	7.50	14.00	2.92	12.00	178.00	6.43	23.70	3518.00	334.00	9.27	2.86	306.00	55.00	355.00	98.90	0.95	15.10	0.02790	19.30	41.00
<b>260 x 75</b> x 28	27.60	260.00	75.00	7.00	12.00	2.10	12.00	212.00	6.25	30.30	3619.00	185.00	10.10	2.30	278.00	34.40	328.00	62.00	0.93	20.50	0.02030	11.70	35.10
<b>260 x 90</b> x 35	34.80	260.00	90.00	8.00	14.00	2.74	12.00	208.00	6.43	26.00	4728.00	353.00	10.30	2.82	364.00	56.30	425.00	102.00	0.94	17.20	0.03790	20.60	44.40
<b>300 x 90</b> x 41	41.40	300.00	90.00	9.00	15.50	2.60	12.00	245.00	5.81	27.20	7218.00	404.00	11.70	2.77	481.00	63.10	568.00	114.00	0.93	18.40	0.05810	28.80	52.70
<b>300 x 100</b> x 46	45.50	300.00	100.00	9.00	16.50	3.05	15.00	237.00	6.06	26.30	8229.00	568.00	11.90	3.13	549.00	81.70	641.00	148.00	0.94	17.00	0.08130	36.80	58.00
<b>380 x 100</b> x 54	54.00	380.00	100.00	9.50	17.50	2.79	15.00	315.00	5.71	33.20	15030.00	643.00	14.80	3.06	791.00	89.20	933.00	161.00	0.93	21.20	0.15000	45.70	68.70
<b>430 x 100</b> x 64	64.40	430.00	100.00	11.00	19.00	2.62	15.00	362.00	5.26	32.90	21940.00	722.00	16.30	2.97	1020.00	97.90	1222.00	176.00	0.92	22.50	0.21900	63.00	82.10