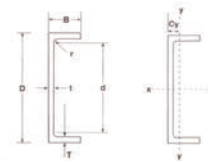


Parallel Flange Channels

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 C _y 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 ⁶	Torsional Constant J cm ⁴	Area of Section cm ²
									Flange B/2T	Web d/t	Axis x-x cm ⁴	Axis y-y cm ⁴	Axis x-x cm	Axis y-y cm	Axis x-x cm ³	Axis x-x cm ³	Axis x-x cm ³	Axis y-y cm ³					
430x100x64	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
380x100x54	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
300x100x46	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
300x90x41	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
260x90x35	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
260x75x28	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
230x90x32	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
230x75x26	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
200x90x30	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
200x75x23	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
180x90x26	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
180x75x20	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
150x90x24	23.90	150.00	90.00	6.50	12.00	3.30	12.00	102.00	7.50	15.70	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
150x75x18	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
125x65x15	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
100x50x10	10.20	100.00	50.00	5.00	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