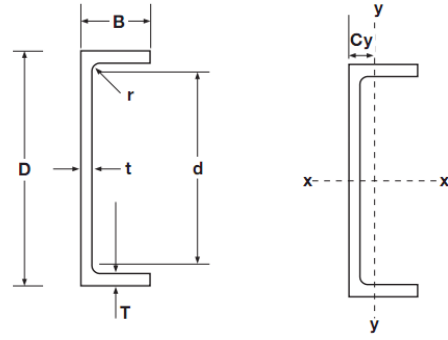


# RAINHAM STEEL

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## Parallel Flange Channels

Dimensions and properties to BS 4: Part 1: 1993



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	
									Flange B/T	Web d/t	Axis x-x cm <sup>4</sup>	Axis y-y cm <sup>4</sup>
<b>430x100x64</b>	64.40	430	100	11.0	19.00	2.62	15	362.0	5.26	32.9	21940	722
<b>380x100x54</b>	54.00	380	100	9.50	17.50	2.79	15	315.0	5.71	33.2	15030	643
<b>300x100x46</b>	45.50	300	100	9.00	16.50	3.05	15	237.0	6.06	26.3	8229	568
<b>300x90x41</b>	41.40	300	90	9.00	15.50	2.60	12	245.0	5.81	27.2	7218	404
<b>260x90x35</b>	34.80	260	90	8.00	14.00	2.74	12	208.0	6.43	26.0	4728	353
<b>260x75x28</b>	27.60	260	75	7.00	12.00	2.10	12	212.0	6.25	30.3	3619	185
<b>230x90x32</b>	32.20	230	90	7.50	14.00	2.92	12	178.0	6.43	23.7	3518	334
<b>230x75x26</b>	25.70	230	75	6.50	12.50	2.30	12	181.0	6.00	27.8	2748	181
<b>200x90x30</b>	29.70	200	90	7.00	14.00	3.12	12	148.0	6.43	21.1	2523	314
<b>200x75x23</b>	23.40	200	75	6.00	12.50	2.48	12	151.0	6.00	25.2	1963	170
<b>180x90x26</b>	26.10	180	90	6.50	12.50	3.17	12	131.0	7.20	20.2	1817	277
<b>180x75x20</b>	20.30	180	75	6.00	10.50	2.41	12	135.0	7.14	22.5	1370	146
<b>150x90x24</b>	23.90	150	90	6.50	12.00	3.30	12	102.0	7.50	15.7	1162	253
<b>150x75x18</b>	17.90	150	75	5.50	10.00	2.58	12	106.0	7.50	19.3	861	131
<b>125x65x15</b>	14.80	125	65	5.50	9.50	2.25	12	82.0	6.84	14.9	483	80.0
<b>100x50x10</b>	10.20	100	50	5.00	8.50	1.73	9	65.0	5.88	13.0	208	32.3

Designation	Mass per metre kg/m	Area of Section cm <sup>2</sup>	Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter u	Torsional Index x	Warping Constant H dm <sup>6</sup>	Torsional Constant J 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>				
Serial Size												
430x100x64	64.40	82.1	16.3	2.97	1020	97.9	1222	176	0.917	22.5	0.219	63.0
380x100x54	54.00	68.7	14.8	3.06	791	89.2	933	161	0.932	21.2	0.150	45.7
300x100x46	45.50	58.0	11.9	3.13	549	81.7	641	148	0.944	17.0	0.0813	36.8
300x90x41	41.40	52.7	11.7	2.77	481	63.1	568	114	0.934	18.4	0.0581	28.8
260x90x35	34.80	44.4	10.3	2.82	364	56.3	425	102	0.942	17.2	0.0379	20.6
260x75x28	27.60	35.1	10.1	2.30	278	34.4	328	62.0	0.932	20.5	0.0203	11.7
230x90x32	32.20	41.0	9.27	2.86	306	55.0	355	98.9	0.950	15.1	0.0279	19.3
230x75x26	25.70	32.7	9.17	2.35	239	34.8	278	63.2	0.947	17.3	0.0153	11.8
200x90x30	29.70	37.9	8.16	2.88	252	53.4	291	94.5	0.954	12.9	0.0197	18.3
200x75x23	23.40	29.9	8.11	2.39	196	33.8	227	60.6	0.956	14.8	0.0107	11.1
180x90x26	26.10	33.2	7.40	2.89	202	47.4	232	83.5	0.949	12.8	0.0141	13.3
180x75x20	20.30	25.9	7.27	2.38	152	28.8	176	51.8	0.946	15.3	0.0075	7.34
150x90x24	23.90	30.4	6.18	2.89	155	44.4	179	76.9	0.936	10.8	0.0089	11.8
150x75x18	17.90	22.8	6.15	2.40	115	26.6	132	47.2	0.946	13.1	0.0047	6.10
125x65x15	14.80	18.8	5.07	2.06	77.3	18.8	89.9	33.2	0.942	11.1	0.0019	4.72
100x50x10	10.20	13.0	4.00	1.58	41.5	9.89	48.9	17.5	0.942	10.0	0.0005	2.53