

Engineering Information

Rolled Steel Beams

This table gives the comprehensive data for rolled steel beams standard.

Engineering Information

ROLLED STEEL BEAMS							
Designation	Weight Per metre W kg.	Sectional Area a cm ²	Depth of Section h mm	Width of Flange		Thickness of Flange tf. mm	Thickness of Web tw mm
				b mm	bf. mm		
ISJB 150	7.1	9.01	150	50	4.6	3.0	
ISJB 175	8.1	10.28	175	50	4.8	3.2	
ISJB 200	9.9	12.64	200	60	5.0	3.4	
ISJB 225	12.8	16.28	225	80	5.0	3.7	
ISLB 75	6.1	7.71	75	50	5.0	3.7	
ISLB 100	8.0	10.21	100	50	6.4	4.0	
ISLB 125	11.9	15.12	125	75	6.5	4.4	
ISLB 150	14.2	18.08	150	80	6.8	4.8	
ISLB 175	26.7	21.30	175	90	6.9	5.1	
ISLB 200	19.8	25.27	200	100	7.3	5.4	
ISLB 225	23.5	29.92	225	100	8.6	5.8	
ISLB 250	27.9	35.53	250	125	8.2	6.1	
ISLB 275	33.0	42.02	275	140	8.8	6.4	
ISLB 300	37.7	48.08	300	150	9.4	6.7	
ISLB 325	43.1	24.90	325	165	9.8	7.0	
ISLB 350	49.5	63.01	350	165	11.4	7.4	
ISLB 400	56.9	72.43	400	165	12.5	8.0	
ISLB 450	65.3	83.14	450	170	13.4	8.6	
ISLB 500	75.0	95.50	500	180	14.1	9.2	
ISLB 550	86.3	109.97	550	190	15.0	9.9	
ISLB 600	99.5	126.69	600	210	15.5	10.5	
ISMB 100	11.5	14.60	100	75	7.2	4.0	
ISMB 125	13.0	16.60	125	75	7.6	4.4	
ISMB 150	14.9	19.00	150	80	7.6	4.8	
ISMB 175	19.3	24.62	175	90	8.6	5.5	
ISMB 200	25.4	32.3	200	100	10.8	5.7	
ISMB 225	31.2	39.72	225	110	11.8	6.5	
ISMB 250	37.3	47.35	250	125	12.5	6.9	
ISMB 300	44.2	56.26	300	140	12.4	7.5	
ISMB 350	52.4	66.71	350	140	14.2	8.1	
ISMB 400	61.6	78.46	400	140	16.0	8.9	
ISMB 450	72.4	92.27	450	150	17.4	9.4	
ISMB 500	86.9	110.74	500	180	17.2	10.2	
ISMB 550	103.7	132.11	550	190	19.3	11.2	
ISMB 600	122.6	256.21	600	210	20.8	12.0	
ISWB 150	17.0	21.67	150	100	7.5	5.4	

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DIMENSIONS OF PROPERTIES					
Moments of Inertia		Radio of Gyration		Modulus of Section	
xx cm ⁴	yy cm ⁴	r _{xx} cm	r _{yy} cm	Z _{xx} cm ³	Z _{yy} cm ³
322.1	9.2	5.98	1.01	42.9	3.7
479.3	9.7	6.83	0.97	54.8	3.9
780.7	17.3	7.86	1.17	78.1	5.8
1308.2	40.5	8.97	1.58	116.3	10.1
72.7	10.0	3.07	1.14	19.4	4.1
168.0	12.7	4.06	1.12	33.6	5.1
406.8	43.4	5.19	1.69	65.1	11.6
688.2	55.2	6.17	1.75	91.8	13.8
1096.2	79.6	7.17	1.93	125.3	17.7
1696.6	115.4	8.19	2.13	169.7	23.1
2501.9	112.7	9.15	1.94	222.4	22.5
3717.8	193.4	10.23	2.33	297.4	30.9
5375.3	287.0	11.31	2.61	392.4	41.0
7332.9	376.2	12.35	2.80	488.9	50.2
9874.6	510.8	13.41	3.05	607.7	61.9
13158.3	631.9	14.45	3.17	751.9	76.6
19306.3	716.4	16.33	3.15	965.3	80.8
27536.1	853.0	18.20	3.20	1223.8	160.4
38579.0	1063.9	20.10	3.34	1543.2	118.2
53161.6	1335.1	21.99	3.48	1933.2	140.5
72867.6	1821.9	23.98	3.79	2428.9	173.5
257.5	40.8	4.20	1.67	51.5	10.9
449.0	43.7	5.20	1.62	71.8	11.7
726.4	52.6	6.18	1.66	96.6	13.1
1272.0	85.0	7.19	1.86	145.4	18.9
2235.4	150.0	8.32	2.15	223.5	30.0
3441.8	218.3	9.31	2.34	306.9	39.7
5131.6	334.5	10.39	2.65	410.5	58.5
8603.6	483.9	12.37	2.84	573.6	64.8
13630.3	537.7	14.29	2.84	778.9	76.8
20458.4	422.1	16.15	2.82	1022.9	88.9
30390.8	834.0	18.15	3.01	1350.7	111.2
45218.3	1369.8	20.21	3.52	1808.7	152.2
64893.6	1833.8	22.16	3.73	2359.8	193.0
91813.0	2651.0	24.24	4.12	3064.0	252.5
889.1	94.8	6.22	2.09	111.9	19.0