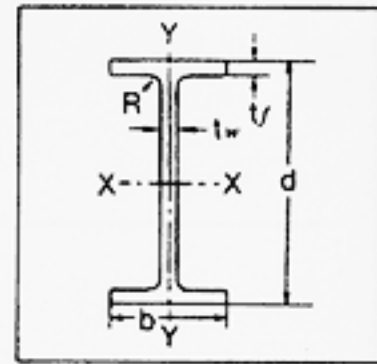


# UNIVERSAL BEAMS



## (Metric Series)

Section Index	Weight	Depth of Section (A)	Flange Width (B)	Thickness		Corner Radius (r)	Sectional Area	Moment of Inertia		Radius of Gyration		Modulus of Section	
				Web (t <sub>w</sub> )	Flange (t <sub>f</sub> )			J <sub>x</sub>	J <sub>y</sub>	i <sub>x</sub>	i <sub>y</sub>	Z <sub>x</sub>	Z <sub>y</sub>
mm	Kg/m	mm	mm	mm	mm	mm	cm <sup>2</sup>	cm <sup>4</sup>	cm <sup>4</sup>	cm	cm	cm <sup>3</sup>	cm <sup>3</sup>
900 x 300	286	912	302	18	34	28	364.0	498,000	15,700	37.0	6.56	10,900	1,040
	243	900	300	16	28	28	309.8	411,000	12,600	36.4	6.39	9,140	843
	213	890	299	15	23	28	270.9	345,000	10,300	35.7	6.16	7,760	688
800 x 300	241	808	302	16	30	28	307.6	339,000	13,800	33.2	6.70	8,400	915
	210	800	300	14	26	28	267.4	292,000	11,700	33.0	6.62	7,290	782
	191	792	300	14	22	28	243.4	254,000	9,930	32.3	6.39	6,410	662
700 x 300	215	708	302	15	28	28	273.6	237,000	12,900	29.4	6.86	6,700	853
	185	700	300	13	24	28	235.5	201,000	10,800	29.3	6.78	5,760	722
	166	692	300	13	20	28	211.5	172,000	9,020	28.6	6.53	4,980	602
600 x 300	175	594	302	14	23	28	222.4	137,000	10,600	24.9	6.90	4,620	701
	151	588	300	12	20	28	192.5	118,000	9,020	24.8	6.85	4,020	601
	137	582	300	12	17	28	174.5	103,000	7,670	24.3	6.63	3,530	511
600 x 200	134	612	202	13	23	22	107.7	103,000	3,180	24.6	4.31	3,380	314
	120	606	201	12	20	22	152.5	90,400	2,720	24.3	4.22	2,980	271
	106	600	200	11	17	22	134.4	77,600	2,280	24.0	4.12	2,590	228
500 x 300	128	488	300	11	18	26	163.5	71,000	8,110	20.8	7.04	2,910	541
	114	482	300	11	15	26	145.5	60,400	6,760	20.4	6.82	2,500	451
	103	506	201	11	19	20	131.3	56,500	2,580	20.7	4.43	2,230	257
500 x 200	89.6	500	200	10	16	20	114.2	47,800	2,140	20.5	4.33	1,910	214
	79.5	496	199	9	14	20	101.3	41,900	1,840	20.3	4.27	1,690	185
	124	440	300	11	18	24	157.4	56,100	8,110	18.9	7.18	2,550	541
450 x 300	106	434	299	10	15	24	135.0	46,800	6,690	18.6	7.04	2,160	448
	76	450	200	9	14	18	96.76	33,500	1,870	18.6	4.40	1,490	187
	66.2	446	199	8	12	18	84.3	28,700	1,580	18.5	4.33	1,290	159
400 x 400	605	498	432	45	70	22	770.1	298,000	94,400	19.7	11.10	12,000	4,370
	415	458	417	30	50	22	528.6	187,000	60,500	18.8	10.70	8,170	2,900
	283	428	407	20	35	22	360.7	119,000	39,400	18.2	10.40	5,570	1,930
	232	414	405	18	28	22	295.4	92,800	31,000	17.7	10.20	4,480	1,530
	200	406	403	16	24	22	254.9	78,000	26,200	17.5	10.10	3,840	1,300
	197	400	408	21	21	22	250.7	70,900	23,800	16.8	9.75	3,540	1,170
	172	400	400	13	21	22	218.7	66,600	22,400	17.5	10.10	3,330	1,120
	168	394	405	18	18	22	214.4	59,700	20,000	16.7	9.65	3,030	985
	147	394	398	11	18	22	186.8	56,100	18,900	17.3	10.10	2,850	951
140	388	402	15	15	22	178.5	49,000	16,300	16.6	9.54	2,520	809	
400 x 300	107	390	300	10	16	22	136.0	38,700	7,210	16.9	7.28	1,980	481
	94.3	386	299	9	14	22	120.1	33,700	6,240	16.7	7.81	1,740	418
400 x 200	66	400	200	8	13	16	84.12	23,700	1,740	16.8	4.54	1,190	174
	56.6	396	199	7	11	16	72.16	20,000	1,450	16.7	4.48	1,010	145

## (Metric Series)

Section Index	Weight	Depth of Section (A)	Flange Width (B)	Thickness		Corner Radius (r)	Sectional Area	Moment of Inertia		Radius of Gyration		Modulus of Section	
				Web (t <sub>1</sub> )	Flange (t <sub>2</sub> )			J <sub>x</sub>	J <sub>y</sub>	i <sub>x</sub>	i <sub>y</sub>	Z <sub>x</sub>	Z <sub>y</sub>
mm	Kg/m	mm	mm	mm	mm	mm	cm <sup>2</sup>	cm <sup>4</sup>	cm <sup>4</sup>	cm	cm	cm <sup>3</sup>	cm <sup>3</sup>
350 x 350	159	356	352	14	22	20	202	47,600	16,000	15.3	8.90	2,670	909
	156	350	357	19	19	20	198.4	42,800	14,400	14.7	8.53	2,450	809
	137	350	350	12	19	20	173.9	40,300	13,600	15.2	8.84	2,300	776
	131	344	354	16	16	20	166.6	35,300	11,800	14.6	8.43	2,050	669
	115	344	348	10	16	20	146	33,300	11,200	15.1	8.78	1,940	646
	106	338	351	13	13	20	135.3	28,200	9,380	14.4	8.33	1,670	534
350 x 250	79.7	340	250	9	14	20	101.5	21,700	3,650	14.6	6.00	1,280	292
	69.2	336	249	8	12	20	88.15	18,500	3,090	14.5	5.92	1,100	248
350 x 175	49.6	350	175	7	11	14	63.14	13,600	984	14.7	3.95	775	112
	41.4	346	174	6	9	14	52.68	11,100	792	14.5	3.88	641	91
300 x 300	106	304	301	11	17	18	134.8	23,400	7,730	13.2	7.57	1,540	514
	106	300	305	15	15	18	134.8	21,500	7,100	12.6	7.26	1,440	466
	94	300	300	10	15	18	119.8	20,400	6,750	13.1	7.51	1,360	450
	87	298	299	9	14	18	110.8	18,800	6,240	13	7.51	1,270	417
	84.5	294	302	12	12	18	107.7	16,900	5,520	12.5	7.16	1,150	365
300 x 200	65.4	298	201	9	14	18	82.36	13,300	1,900	12.6	4.77	893	189
	56.8	294	200	8	12	18	72.38	11,300	1,600	12.5	4.71	771	160
300 x 150	36.7	300	150	6.5	9	13	46.38	7,210	508	12.4	3.29	481	67.7
	32	298	149	5.5	8	13	40.8	6,320	442	12.4	3.29	424	59.3
250 x 250	82.2	250	255	14	14	16	104.7	11,500	3,880	10.5	6.09	919	304
	72.4	250	250	9	14	16	92.18	10,800	3,650	10.8	6.29	867	292
	66.5	248	249	8	13	16	84.7	9,930	3,350	10.8	6.29	801	269
	64.4	244	252	11	11	16	82.06	8,790	2,940	10.3	5.98	720	233
250 x 175	44.1	244	175	7	11	16	56.24	6,120	984	10.4	4.18	502	113
250 x 125	29.6	250	125	6	9	12	37.66	4,050	294	10.4	2.79	324	47
	25.7	248	124	5	8	12	32.68	3,540	255	10.4	2.79	285	41.1
200 x 200	65.7	208	202	10	16	13	83.69	6,530	2,200	8.83	5.13	628	218
	56.2	200	204	12	12	13	71.53	4,980	1,700	8.35	4.88	498	167
	49.9	200	200	8	12	13	63.53	4,720	1,600	8.62	5.02	472	160
200 x 150	30.6	194	150	6	9	13	39.01	2,690	507	8.3	3.61	277	67.6
200 x 100	21.3	200	100	5.5	8	11	27.16	1,840	134	8.24	2.22	184	26.8
	18.2	198	99	4.5	7	11	23.18	1,580	114	8.26	2.21	160	23
175 x 175	40.2	175	175	7.5	11	12	51.21	2,880	984	7.5	4.38	330	112