

H IRON SPECIFICATION



H-Beams

(KS D 3503 / 3502, F4603)

Nominal size	Standard Sectional Dimension				Sectional Area cm ²	Unit Weight kg/m	Moment of Inertia cm ²		Radius of Gyration cm		Modulus of Section cm ²	
	H X B	t ₁	t ₂	r			L _x	L _y	I _x	I _y	Z _x	Z _y
100x100	100x100	6	8	10	21.90	17.2	383	134	4.18	2.47	76.5	26.7
125x125	125x125	6.5	9	10	30.31	23.8	847	293	5.29	3.11	136	47
1540x75	150x75	5	7	8	17.85	14.0	666	50	6.11	1.66	88.8	13.2
150x100	148x100	6	9	11	26.84	21.1	1,020	151	6.17	2.37	138	30.1
150x150	150x150	7	10	11	40.14	31.5	1,640	563	6.39	3.75	219	75.1
200x100	198x99	4.5	7	11	23.18	18.2	1,580	114	8.26	2.21	160	23
	200x100	5.5	8	11	39.01	21.3	1,840	134	8.24	2.22	184	26.8
200x150	194x150	6	9	13	63.53	30.6	2,690	507	8.30	3.61	277	67.6
200x200	200x200	8	12	13	71.53	49.9	4,720	1,600	8.62	5.02	472	160
	200x204	12	12	13	83.69	56.2	4,980	1,700	8.35	4.88	498	167
	208x202	10	16	13	32.68	65.7	6,530	2,200	8.83	5.13	628	218
250x125	248x124	5	8	12	37.66	25.7	3,540	255	10.4	2.79	285	41.1
	250x125	6	9	12	56.24	29.6	4,050	294	10.4	2.79	324	47
250x175	244x175	7	11	16	82.06	44.1	6,120	984	10.4	4.18	502	113
250x250	244x252	11	11	16	84.70	64.4	8,790	2,940	10.3	5.98	720	233
	248x249	8	13	16	92.18	66.5	9,930	3,350	10.8	6.29	801	269
	260x250	9	14	16	104.70	72.4	10,800	3,650	10.8	6.29	867	292
	250x255	14	14	16	40.80	82.2	11,500	3,880	10.5	6.09	919	304
300x150	298x149	5.5	8	13	46.78	32.0	6,320	442	12.4	3.29	424	59.3
	300x150	6.5	9	13	72.38	36.7	7,210	508	12.4	3.29	481	67.7
300x200	294x200	8	12	18	83.36	56.8	11,300	1,600	12.5	4.71	771	160
	298x201	9	14	18	107.70	65.4	13,300	1,900	12.6	4.77	893	189
	294x302	12	12	18	110.80	84.5	16,900	5,520	12.5	7.16	1,150	365
	298x299	9	14	18	119.80	87.0	18,800	6,240	13.0	7.50	1,270	417
	300x300	10	15	18	134.80	94.0	20,400	6,750	13.1	7.51	1,360	450

Nominal Size mm	Standard Sectional Dimension mm			Sectional Area cm ²		Unit Weight kg/m	Moment of Inertia cm ²		Radius of Gyrations cm		Modulus of Section cm ²	
	H X B	t ₁	t ₂	r	A		I _x	I _y	i _x	i _y	Z _x	Z _y
300x300	300x305	15	15	18	134.80	1.6.0	21,500	7,100	12.6	7.26	1,440	466
	304x301	11	17	18	165.30	1.6.0	23,400	7,730	13.2	7.57	1,540	514
	310x305	15	20	18	180.80	130.0	28,150	9,460	13.2	7.60	1,890	620
	310x310	20	20	18	52.68	142.0	29,390	9,940	12.8	7.50	1,890	642
350x175	346x1749	6	9	14	52.68	41.4	11,100	792	14.5	3.88	641	91
	350x175	7	11	14	63.14	49.6	13,600	984	14.7	3.95	775	112
350x250	354x176	8	13	14	73.68	57.8	16,100	1,180	14.8	4.01	909	134
	336x249	8	12	20	88.15	69.2	18,500	3,090	14.5	5.92	1,100	248
	340x250	9	14	20	101.50	79.7	21,700	3,650	14.6	6.00	1,280	292
350x350	344x348	10	16	20	146.00	115.0	33,300	11,200	15.1	8.78	1,940	646
	344 x354	16	16	20	166.60	131.0	35,300	11,800	14.6	8.43	2,050	669
	350x350	12	19	20	173.90	137.0	40,300	13,600	15.2	8.84	2,300	776
	350x357	19	19	20	191.40	156.0	42,800	14,400	14.7	8.53	2,450	809

H-Beams

(KS D 3503, 3515 / 3502, F4603)



Nominal Size mm	Standard Sectional Dimension mm				Sectional Area cm ²	Unit Weight kg/m	Moment of Inertia cm ²		Radius of Gyration cm		Modulus of Section cm ²	
	H X B	t ₁	t ₂	r			I _x	I _y	i _x	i _y	Z _x	Z _y
400x200	396x199	7	11	16	72.16	59.6	20,000	1,450	16.70	4.48	1,010	145
	400x200	8	13	16	84.12	66.0	23,700	1,740	16.80	4.54	1,190	174
	404x201	9	15	16	96.16	75.5	27,500	2,030	16.90	4.6	1,360	202
400x300	386x299	9	15	16	120.10	94.3	33,700	6,240	16.70	7.81	1,740	418
	390x300	10	16	22	136.00	107.0	38,700	7,210	16.90	7.28	1,980	481
400x400	388x402	15	15	22	178.50	140.0	49,000	16,300	16.60	9.54	2,520	809
	374x398	11	18	22	186.80	147.0	56,100	18,900	17.30	10.10	2,850	951
	394x405	18	18	22	214.40	168.0	59,700	20,000	16.70	9.65	3,030	985
	400x400	13	21	22	218.70	172.0	66,600	22,400	17.50	10.10	3,330	1,120
	400x408	21	21	22	250.70	197.0	70,900	23,800	16.80	9.75	3,540	1,170
	406x403	16	24	22	254.90	200.0	78,000	26,200	17.50	10.10	3,840	1,300
	414x405	18	28	22	295.40	232.0	92,800	31,000	17.70	10.20	4,480	1,530
	428x407	20	35	22	360.70	283.0	119,000	39,400	18.20	10.40	5,570	1,930
	458x417	30	50	22	258.60	415.0	187,000	60,500	18.80	10.70	8,170	2,900
	498x432	45	70	22	770.10	605.0	298,000	94,000	19.7	11.10	13,000	4,370
450x200	446x199	8	12	18	84.30	66.2	28,700	1,580	18.5	4.33	1,290	159
	450x200	9	14	18	96.76	76.0	33,500	1,870	18.6	4.40	1,490	187
	434x 299	10	15	24	135.00	106.0	46,800	6,690	18.6	7.04	2,160	448
	440x300	11	18	24	157.40	124.0	56,100	8,110	18.9	7.18	2,550	541
500x200	469x199	9	14	20	101.30	79.5	41,900	1,840	20.3	4.27	1,690	185
	500x200	10	16	20	114.20	89.5	47,800	2,140	20.5	4.33	1,910	214
	506x201	11	19	20	131.30	103.0	56,500	2,580	20.7	4.43	2,230	257
500x300	482x300	11	15	26	145.50	114.0	60,400	6,760	20.4	6.82	2,500	451
	488x300	11	18	26	163.50	128.0	71,000	8,110	20.8	7.04	2,910	541

Nominal Size mm	Standard Sectional Dimension mm				Sectional Area cm ²	Unit Weight kg/m	Moment of Inertia cm ²		Radius of Gyration cm		Modulus of Section cm ²	
	H X B	t ₁	t ₂	r			I _x	I _y	i _x	i _y	Z _x	Z _y
600x200	596x199	10	15	22	120.50	94.6	68,700	1,980	23.9	4.05	2,310	119
	600x200	11	17	22	134.40	106.0	77,600	2,280	24.0	4.12	2,590	228
	606x201	12	20	22	152.50	120.0	90,400	2,720	24.3	4.22	2,980	271
	612x202	13	23	22	170.70	134.0	103,000	3,180	24.6	4.31	3,380	314
600x300	582x300	12	17	28	174.50	137.0	103,000	7,670	24.3	6.63	3,530	511
	588x300	12	20	28	192.50	151.0	118,000	9,020	24.8	6.85	4,020	601
	594x302	14	23	28	222.40	175.0	137,000	10,600	24.9	6.90	4,620	701
700x300	692x300	13	20	28	211.50	166.0	172,000	9,020	28.6	6.53	4,980	602
	700x300	13	24	28	235.50	185.0	201,000	10,800	29.3	6.78	5760	722
	708x300	15	18	28	273.60	215.0	237,000	12,900	29.4	6.86	6,700	853
800x300	792x300	14	22	28	2493.40	191.0	254,00	9,930	32.3	6.39	6,410	662
	800x300	14	26	28	267.0	210.0	292,000	11,700	33.0	6.62	7,290	782
	805x302	16	30	28	307.60	241.0	339,000	13,800	33.2	6.70	8,400	915
900x300	890x299	15	23	28	270.90	213.0	345,000	10,300	35.7	6.16	7,760	688
	900x300	16	28	28	309.80	243.0	411,000	12,600	36.4	6.39	9,140	843
	912x302	18	34	28	364.00	286.0	498,000	15,700	37	6.56	10,900	1,040