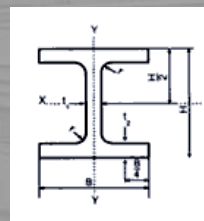


H-Sections

TIS / JIS STANDARDS

(TIS 1227 : 1996 / JIS G3192 : 1990)

Size & Properties



Nominal Size mm.	Weight		Sectional Dimension										Sectional Area cm ²	Sectional Area in ²	Moment of Inertia				Radius of Gyration				Modulus of Section				Nominal Size mm.
			H		B		t ₁		t ₂		r				I _x		I _y		I _x		I _y		I _x		I _y		
	kg/m.	lb/ft.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.			cm ⁴	in ⁴	cm ⁴	in ⁴	cm.	in.	cm.	in.	cm ³	in ³	cm ³	in ³	
100x100	17.2	11.6	100	3.94	100	3.94	6.0	0.236	8	0.315	10	0.394	21.90	3.39	383	9.20	134	3.22	4.2	1.65	2.47	0.97	77	4.7	27	1.63	100x100
125x125	23.8	16.0	125	4.92	125	4.92	6.5	0.256	9	0.354	10	0.394	30.31	4.70	847	20.35	293	7.04	5.3	2.08	3.11	1.22	136	8.3	47	2.87	125x125
150x75	14.0	9.4	150	5.91	75	2.95	5.0	0.200	7	0.280	8	0.310	17.85	2.77	666	16.00	50	1.19	6.1	2.41	1.66	0.65	89	5.4	13	0.81	150x75
150x100	21.1	14.2	148	5.83	100	3.94	6.0	0.236	9	0.354	11	0.433	26.84	4.16	1,020	24.51	151	3.63	6.2	2.43	2.37	0.93	138	8.4	30	1.84	150x100
150x150	31.5	21.2	150	5.91	150	5.91	7.0	0.276	10	0.394	11	0.433	40.14	6.22	1,640	39.40	563	13.53	6.4	2.52	3.75	1.48	219	13.4	75	4.58	150x150
175x175	40.2	27.0	175	6.89	175	6.89	7.5	0.295	11	0.433	12	0.472	51.21	7.94	2,880	69.19	984	23.64	7.5	2.95	4.38	1.72	330	20.1	112	6.83	175x175
200x100	18.2	12.2	198	7.80	99	3.90	4.5	0.177	7	0.276	11	0.433	23.18	3.59	1,580	37.96	114	2.74	8.3	3.25	2.21	0.87	160	9.8	23	1.40	200x100
	21.3	14.3	200	7.87	100	3.94	5.5	0.217	8	0.315	11	0.433	27.16	4.21	1,840	44.21	134	3.22	8.2	3.24	2.22	0.87	184	11.2	27	1.64	
200x150	30.6	20.6	194	7.64	150	5.91	6.0	0.236	9	0.354	13	0.512	39.01	6.05	2,690	64.63	507	12.18	8.3	3.27	3.61	1.42	227	16.9	68	4.13	200x150
200x200	49.9	33.5	200	7.87	200	7.87	8.0	0.315	12	0.472	13	0.512	63.53	9.85	4,720	113.40	1,600	38.44	8.6	3.39	5.02	1.98	472	28.8	160	9.76	200x200
	56.2	37.8	200	7.87	204	8.03	12.0	0.472	12	0.472	13	0.512	71.53	11.09	4,980	119.64	1,700	40.84	8.4	3.29	4.88	1.92	498	30.4	167	10.19	
	65.7	44.2	208	8.19	202	7.95	10.0	0.394	16	0.630	13	0.512	83.69	12.97	6,530	156.88	2,200	52.86	8.8	3.48	5.13	2.02	628	38.3	218	13.30	
250x125	25.7	17.3	248	9.76	124	4.88	5.0	0.197	8	0.315	12	0.472	32.68	5.07	3,540	85.05	255	6.13	10.4	4.09	2.79	1.10	285	17.4	41	2.51	250x125
	29.6	19.9	250	9.84	125	4.92	6.0	0.236	9	0.354	12	0.472	37.66	5.84	4,050	97.30	294	7.06	10.4	4.09	2.79	1.10	324	19.8	47	2.87	
250x175	44.1	29.6	244	9.61	175	6.89	7.0	0.276	11	0.433	16	0.630	56.24	8.72	6,120	147.03	984	23.64	10.4	4.09	4.18	1.65	502	30.6	113	6.90	250x175
250x250	64.4	43.3	244	9.61	252	9.92	11.0	0.433	11	0.433	16	0.630	82.06	12.72	8,790	211.18	2,940	70.63	10.3	4.06	5.98	2.35	720	43.9	233	14.22	250x250
	66.5	44.7	248	9.76	249	9.80	8.0	0.315	13	0.512	16	0.630	84.70	13.13	9,930	238.57	3,350	80.48	10.8	4.25	6.29	2.48	801	48.9	269	16.42	
	72.4	48.7	250	9.84	250	9.84	9.0	0.354	14	0.551	16	0.630	92.18	14.29	10,800	259.47	3,650	87.69	10.8	4.25	6.29	2.48	867	52.9	292	17.82	
	82.2	55.2	250	9.84	255	10.04	14.0	0.551	14	0.551	16	0.630	104.70	16.23	11,500	276.29	3,880	93.22	10.5	4.13	6.09	2.40	919	56.1	304	18.55	
300x150	32.0	21.5	298	11.73	149	5.87	5.5	0.217	8	0.315	13	0.512	40.80	6.32	6,320	151.84	442	10.62	12.4	4.88	3.29	1.30	424	25.9	59	3.62	300x150
	36.7	24.7	300	11.81	150	5.91	6.5	0.256	9	0.354	13	0.512	46.78	7.25	7,210	173.22	508	12.20	12.4	4.88	3.29	1.30	481	29.4	68	4.13	
300x200	56.8	38.2	294	11.57	200	7.87	8.0	0.315	12	0.472	18	0.709	72.38	11.22	11,300	271.48	1,600	38.44	12.5	4.92	4.71	1.85	771	47.0	160	9.76	300x200
	65.4	44.0	298	11.73	201	7.91	9.0	0.354	14	0.551	18	0.709	83.36	12.92	13,300	319.53	1,900	45.65	12.6	4.96	4.77	1.88	893	54.5	189	11.53	
300x300	84.5	56.8	294	11.57	302	11.89	12.0	0.472	12	0.472	18	0.709	107.70	16.69	16,900	406.00	5,520	133.00	12.5	4.92	7.16	2.82	1,150	70.2	365	22.27	300x300
	87.0	58.5	298	11.73	299	11.77	9.0	0.354	14	0.551	18	0.709	110.80	17.17	18,800	452.00	6,240	150.00	13.0	5.12	7.51	2.96	1,270	77.5	417	25.40	
	94.0	63.2	300	11.81	300	11.81	10.0	0.394	15	0.591	18	0.709	119.80	18.57	20,400	490.00	6,750	162.00	13.1	5.16	7.51	2.96	1,360	83.0	450	27.50	
	106.0	71.2	300	11.81	305	12.01	15.0	0.591	15	0.591	18	0.709	134.80	20.89	21,500	516.54	7,100	170.58	12.6	4.96	7.26	2.86	1,440	87.9	466	28.40	
	106.0	71.2	304	11.97	301	11.85	11.0	0.433	17	0.669	18	0.709	134.80	20.89	23,400	562.19	7,730	185.71	13.2	5.20	7.57	2.98	1,540	94.0	514	31.37	

350x175	41.4	27.8	346	13.62	174	6.85	6.0	0.236	9	0.354	14	0.551	52.68	8.17	11,100	266.68	792	19.03	14.5	5.71	3.88	1.53	641	39.1	91	5.55	350x175
	49.6	33.3	350	13.78	175	6.89	7.0	0.276	11	0.433	14	0.551	63.14	9.79	13,600	326.74	984	23.64	14.7	5.79	3.95	1.56	775	47.3	112	6.83	
	57.8	38.8	354	13.94	176	6.93	8.0	0.315	13	0.512	14	0.551	73.68	11.42	16,100	386.80	1,180	28.35	14.8	5.83	4.01	1.58	909	55.5	134	8.18	
350x250	69.2	46.5	336	13.23	249	9.80	8.0	0.315	12	0.472	20	0.787	88.15	13.66	18,500	444.46	3,090	74.24	14.5	5.71	5.92	2.33	1,100	67.1	248	15.13	350x250
	79.7	53.6	340	13.39	250	9.84	9.0	0.354	14	0.551	20	0.787	101.50	15.73	21,700	521.34	3,650	87.69	14.6	5.75	6.00	2.36	1,280	78.1	292	17.82	
350x350	106.0	71.2	338	13.31	351	13.82	13.0	0.512	13	0.512	20	0.787	135.30	20.97	28,200	677.51	9,380	225.36	14.4	5.67	8.33	3.28	1,670	101.9	534	32.59	350x350
	115.0	77.3	344	13.54	348	13.70	10.0	0.394	16	0.630	20	0.787	146.00	22.63	33,300	800.04	11,200	269.08	15.1	5.94	8.78	3.46	1,940	118.4	646	39.42	
	131.0	88.0	344	13.54	354	13.94	16.0	0.630	16	0.630	20	0.787	166.60	25.82	35,300	848.09	11,800	283.50	14.6	5.75	8.43	3.32	2,050	125.1	669	40.82	
	137.0	92.1	350	13.78	350	13.78	12.0	0.472	19	0.748	20	0.787	173.90	26.95	40,300	968.21	13,600	326.74	15.2	5.98	8.84	3.48	2,300	140.4	776	47.35	
	156.0	104.8	350	13.78	357	14.06	19.0	0.748	19	0.748	20	0.787	198.40	30.75	42,800	1,030.00	11,400	345.96	14.7	5.79	8.53	3.36	2,450	149.5	809	49.37	
400x200	55.6	38.0	396	15.59	199	7.83	7	0.276	11	0.433	16	0.630	72.16	11.18	20,000	480.50	1,450	34.84	16.7	6.57	4.48	1.76	1,010	61.6	145	8.85	400x200
	66.0	44.4	400	15.75	200	7.87	8	0.315	13	0.512	16	0.630	84.12	13.04	23,700	569.39	1,740	41.80	16.8	6.61	4.54	1.79	1,190	72.6	174	10.62	
	75.5	50.7	404	15.91	201	7.91	9	0.354	15	0.591	16	0.630	96.16	14.90	27,500	660.69	2,030	48.77	16.9	6.65	4.60	1.81	1,360	83.0	202	12.33	
400x300	94.3	63.4	386	15.20	299	11.77	9	0.354	14	0.551	22	0.866	120.10	18.62	33,700	809.65	6,240	149.92	16.7	6.57	7.21	2.84	1,740	106.2	418	25.51	400x300
	107.0	71.9	390	15.35	300	11.81	10	0.394	16	0.630	22	0.866	136.00	21.08	38,700	929.77	7,210	173.22	16.9	6.65	7.28	2.87	1,980	120.8	481	29.35	
400x400	140.0	94.1	388	15.28	402	15.83	15	0.591	15	0.591	22	0.866	178.50	27.67	49,000	1,177.23	16,300	391.61	16.6	6.54	9.54	3.76	2,520	153.8	809	49.37	400x400
	147.0	98.8	394	15.51	398	15.67	11	0.433	18	0.709	22	0.866	186.80	28.95	56,100	1,347.81	18,900	454.07	17.3	6.81	10.10	3.98	2,850	173.9	951	58.03	
	168.0	112.9	394	15.51	405	15.94	18	0.709	18	0.709	22	0.866	214.40	33.23	59,700	1,434.30	20,000	480.50	16.7	6.57	9.65	3.80	3,030	184.9	985	60.11	
	172.0	115.6	400	15.75	400	15.75	13	0.512	21	0.827	22	0.866	218.70	33.90	66,600	1,600.07	22,400	538.16	17.5	6.89	10.10	3.98	3,330	203.2	1,120	68.35	
	197.0	132.4	400	15.75	408	16.06	21	0.827	21	0.827	22	0.866	250.70	38.86	70,900	1,703.38	23,800	571.80	16.8	6.61	9.75	3.84	3,540	216.0	1,170	71.40	
	232.0	155.9	414	16.30	405	15.94	18	0.709	28	1.102	22	0.866	295.40	45.79	92,800	2,229.53	31,000	744.78	17.7	6.97	10.20	4.02	4,480	273.4	1,530	93.37	
450x200	66.2	44.5	446	17.56	199	7.83	8	0.315	12	0.472	18	0.709	84.30	13.07	28,700	689.52	1,580	37.96	18.5	7.28	4.33	1.70	1,290	78.7	159	9.70	450x200
	76.0	51.1	450	17.72	200	7.87	9	0.354	14	0.551	18	0.709	96.76	15.00	33,500	804.84	1,870	44.93	18.6	7.32	4.40	1.73	1,490	90.9	187	11.41	
	88.9	59.7	456	17.95	201	7.91	10	0.394	17	0.669	18	0.709	113.30	17.56	40,400	970.61	2,310	55.50	18.9	7.44	4.51	1.78	1,770	108.0	230	14.04	
450x300	106.0	71.2	434	17.09	299	11.81	10	0.394	17	0.591	24	0.945	135.00	20.93	46,800	1,124.37	6,690	160.73	18.6	7.32	7.04	2.77	2,160	131.8	448	27.34	450x300
	124.0	83.3	440	17.32	300	11.81	11	0.433	18	0.709	24	0.945	157.40	24.40	56,100	1,347.81	8,110	194.84	18.9	7.44	7.18	2.83	2,550	155.6	541	33.01	
	145.0	97.4	446	17.56	302	11.89	13	0.512	21	0.827	24	0.945	184.30	28.57	66,400	1,595.27	9,660	232.08	19	7.48	7.24	2.85	2,980	181.9	639	38.99	
500x200	79.5	53.4	496	19.53	199	7.83	9	0.354	14	0.551	20	0.787	101.30	15.70	41,900	1,006.65	1,840	44.21	20.3	7.99	4.27	1.68	1,690	103.1	185	11.29	500x200
	89.6	60.2	500	19.69	200	7.87	10	0.394	16	0.630	20	0.787	114.20	17.70	47,800	1,148.40	2,140	51.41	20.5	8.07	4.33	1.70	1,910	116.6	214	13.06	
	103.0	69.2	506	19.92	201	7.91	11	0.433	19	0.748	20	0.787	131.30	20.35	56,500	1,357.42	2,580	61.98	20.7	8.15	4.43	1.74	2,230	136.1	257	15.68	
500x300	114.0	76.6	482	18.98	300	11.81	11	0.433	15	0.591	26	1.024	145.50	22.55	60,400	1,451.12	6,760	162.41	20.4	8.03	6.82	2.69	2,500	152.6	451	27.52	500x300
	128.0	86.0	488	19.21	300	11.81	11	0.433	18	0.709	26	1.024	163.50	25.34	71,000	1,705.78	8,110	194.84	20.8	8.19	7.04	2.77	2,910	177.6	541	33.01	
	150.0	100.8	494	19.45	302	11.89	13	0.512	21	0.827	26	1.024	191.40	29.67	83,800	2,013.30	9,660	232.08	20.9	8.23	7.10	2.80	3,390	208.9	640	39.06	
600x200	94.6	63.6	596	23.46	199	7.83	10	0.394	15	0.591	22	0.866	120.50	18.68	68,700	1,650.52	1,980	47.57	23.9	9.41	4.05	1.59	2,310	141.0	199	12.14	600x200
	106.0	71.2	600	23.62	200	7.87	11	0.433	17	0.669	22	0.866	134.40	20.83	77,600	1,864.35	2,280	54.78	24.0	9.45	4.12	1.62	2,590	158.1	228	13.91	
	120.0	80.6	606	23.86	201	7.91	12	0.472	20	0.787	22	0.866	152.50	23.67	90,400	2,171.87	2,720	65.35	24.3	9.57	4.22	1.66	2,980	181.9	271	16.54	
	134.0	90.1	612	24.09	202	7.95	13	0.512	23	0.906	22	0.866	170.70	26.46	103,000	2,474.58	3,180	76.40	24.6	9.69	4.31	1.70	3,380	206.3	314	19.16	
600x300	137.0	92.1	582	22.91	300	11.81	12	0.472	17	0.669	28	1.102	174.50	27.05	103,000	2,474.58	7,670	184.27	24.3	9.57	6.63	2.61	3,530	215.4	511	31.18	600x300
	151.0	101.5	588	23.15	300	11.81	12	0.472	20	0.787	28	1.102	192.50	29.84	118,000	2,834.96	9,020	216.71	24.8	9.76	6.85	2.70	4,020	245.3	601	36.68	
	175.0	117.6	594	23.39	302	11.89	14	0.551	23	0.906	28	1.102	222.40	34.47	137,000	3,291.44	10,600	254.67	24.9	9.80	6.90	2.72	4,620	281.9	701	42.78	
700x300	166.0	111.6	692	27.24	300	11.81	13	0.512	20	0.787	28	1.100	211.50	32.78	172,000	4,132.32	9,020	216.71	28.6	11.26	6.53	2.57	4,980	303.9	602	36.74	700x300

	185.0	124.3	700	27.56	300	11.81	13	0.512	24	0.945	28	1.100	235.50	36.50	201,000	4,829.04	10,800	259.47	29.3	11.54	6.78	2.67	5,760	351.5	722	44.06	
800x300	191.0	128.4	792	31.18	300	11.81	14	0.551	22	0.866	28	1.102	243.40	37.73	254,000	6,102.37	9,930	238.57	32.3	12.72	6.39	2.52	6,410	391.2	662	40.40	800x300
	210.0	141.1	800	31.50	300	11.81	14	0.551	26	1.024	28	1.102	267.40	41.45	292,000	7,015.33	11,700	281.09	33.0	12.99	6.62	2.61	7,290	444.9	782	47.72	
900x300	243.0	160.7	900	35.43	300	11.81	16	0.650	28	1.108	28	1.102	309.80	48.02	411,000	9,874.00	12,600	303.00	36.4	14.33	6.39	2.52	11,800	720.0	1,140	69.57	900x300

*** Please contact us in advance for items
in light blue color cell ***