



I-BEAMS

Dimensions and Properties



TIS 1227-2537

Grade : SM400, SM490, SM520, SS400, SS490 or SS540



Standard Sectional Dimensions (mm.)					Sectional Area (cm ²)	Weight (kg/m.)	Moment of Inertia (cm ⁴)		Radius of Gyration (cm.)		Modulus of Section (cm ³)	
H x B	t1	t2	r1	r2			Ix	Iy	ix	iy	Zx	Zy
150X75	5.5	9.5	9.0	4.5	21.83	17.1	819	57.5	6.12	1.62	109	15.3
200X100	7.0	10.0	10.0	5.0	33.06	26.0	2,170	138	8.11	2.05	217	27.7
200X150	9.0	16.0	15.0	7.5	64.16	50.4	4,460	753	8.34	3.43	446	100.0
250X125	7.5	12.5	12.0	6.0	48.79	38.3	5,180	337	10.30	2.63	414	53.9
	10.0	19.0	21.0	10.5	70.73	55.5	7,310	538	10.20	2.76	585	86.0
300X150	8.0	13.0	12.0	6.0	61.58	48.3	9,480	588	12.40	3.09	632	78.4
	10.0	18.5	19.0	9.5	83.47	65.5	12,700	886	12.30	3.26	849	118.0
	11.5	22.0	23.0	11.5	97.88	76.8	14,700	1,080	12.20	3.32	978	143.0
350X150	9.0	15.0	13.0	6.5	74.58	58.5	15,200	702	14.30	3.07	870	93.5
	12.0	24.0	25.0	12.5	111.10	87.2	22,400	1,180	14.20	3.26	1,280	158.0
400X150	10.0	18.0	17.0	8.5	91.73	72.0	24,100	864	16.20	3.07	1,200	115.0
	12.5	25.0	27.0	13.5	122.10	95.8	31,700	1,240	16.10	3.18	1,580	165.0
450X175	11.0	20.0	19.0	9.5	116.8	91.7	39,200	1,510	18.30	3.60	1,740	173.0
	13.0	26.0	27.0	13.5	146.1	115.0	48,800	2,020	18.30	3.72	2,170	231.0
600X190	13.0	25.0	25.0	12.5	169.4	133.0	68,400	2,460	24.10	3.81	3,280	259.0
	16.0	35.0	38.0	19.0	224.5	176.0	130,000	3,540	24.10	3.97	4,330	373.0