



**EQUAL ANGLE**  
Dimensions and Properties



TIS 1227-2537  
Grade : SM400, SM490, SM520, SS400, SS490 or SS540



Standard Sectional Dimensions (mm.)				Sectional Area (cm <sup>2</sup> )	Weight (kg/m.)	Weight (kg/6m.)	Position Of Center Of Gravity (cm.)		Moment of Inertia (cm <sup>4</sup> )				Radius of Gyration (cm.)				Modulus of Section (cm <sup>3</sup> )	
H x B	t	r1	r2				Cx	Cy	Ix	Iy	Max Ix	Min Iy	ix	iy	Max ix	Min iy	Zx	Zy
25X25	3	4	2	1.427	1.12	6.72	0.72	0.719	0.80	0.80	1.26	0.33	0.747	0.747	0.94	0.493	0.45	0.45
	5	3.5	2.4	2.26	1.77	10.62	0.80	0.8	1.20	1.20	1.89	0.52	0.73	0.73	0.91	0.48	0.71	0.71
30X30	3	4	2	7.727	1.36	8.16	0.84	0.844	1.42	1.42	2.26	0.59	0.908	0.908	1.14	0.585	0.66	0.66
	5	3.5	2.4	2.78	2.18	13.08	0.92	0.92	2.16	2.16	3.41	0.92	0.88	0.88	1.11	0.57	1.04	1.04
40X40	3	4.5	2	2.336	1.83	10.98	1.09	1.09	3.53	3.53	5.60	1.46	1.23	1.23	1.55	0.79	1.21	1.21
	4	6	2.4	3.08	2.42	14.52	1.12	1.12	4.47	4.47	7.09	1.85	1.21	1.21	1.52	0.78	1.55	1.55
	5	4.5	3	3.755	2.95	17.70	1.17	1.17	5.42	5.42	8.59	2.25	1.2	1.2	1.51	0.774	1.91	1.91
	6	6	2.4	4.48	3.52	21.12	1.20	1.2	6.31	6.31	9.98	2.65	1.19	1.19	1.49	0.777	2.26	2.26
45X45	4	6.5	3	3.492	2.74	16.44	1.24	1.24	6.50	6.50	10.30	2.70	1.36	1.36	1.72	0.88	2.00	2.00
	5	6.5	3	4.302	3.38	20.28	1.28	1.28	7.91	7.91	12.50	3.29	1.36	1.36	1.71	0.874	2.46	2.46
50X50	3	7	2.4	2.96	2.33	13.98	1.31	1.31	6.86	6.86	10.80	2.88	1.52	1.52	1.91	0.99	1.86	1.86
	4	6.5	3	3.892	3.06	18.36	1.37	1.37	9.06	9.06	14.40	3.76	1.53	1.53	1.92	0.983	2.49	2.49
	5	6.5	3	4.802	3.77	22.62	1.41	1.41	11.10	11.10	17.50	4.58	1.52	1.52	1.91	0.976	3.08	3.08
	6	6.5	4.5	5.644	4.43	26.58	1.44	1.44	12.60	12.60	20.00	5.23	1.5	1.5	1.88	0.963	3.55	3.55
60X60	4	6.5	3	4.692	3.68	22.08	1.61	1.61	16.00	16.00	25.40	6.62	1.85	1.85	2.33	1.19	3.66	3.66
	5	6.5	3	5.802	4.55	27.30	1.66	1.66	19.60	19.60	31.20	8.09	1.84	1.84	2.32	1.18	4.52	4.52
65X65	5	8.5	3	6.367	5.00	30.00	1.77	1.77	25.3	25.3	40.1	10.50	1.99	1.99	2.51	1.28	5.35	5.35
	6	8.5	4	7.527	5.91	35.46	1.81	1.81	29.4	29.4	46.6	12.20	1.98	1.98	2.49	1.27	6.26	6.26
	8	8.5	6	9.761	7.66	45.96	1.88	1.88	36.8	36.8	58.3	15.30	1.94	1.94	2.44	1.25	7.96	7.96
70X70	6	8.5	4	8.127	6.38	38.28	1.93	1.93	37.1	37.1	58.9	15.30	2.14	2.14	2.69	1.37	7.33	7.33
75X75	6	8.5	4	8.727	6.85	41.10	2.06	2.06	46.1	46.1	73.2	19.00	2.3	2.3	2.9	1.48	8.47	8.47
	9	8.5	6	12.69	9.96	59.76	2.17	2.17	64.4	64.4	102.0	26.70	2.25	2.25	2.84	1.45	12.10	12.10
	12	8.5	6	16.56	13.00	78.00	2.29	2.29	81.9	81.9	129.0	34.50	2.22	2.22	2.79	1.44	15.70	15.70
80X80	6	8.5	4	9.327	7.32	43.92	2.18	2.18	56.4	56.4	89.6	23.20	2.46	2.46	3.1	1.58	9.70	9.70
90X90	6	10	5	10.55	8.28	49.68	2.42	2.42	80.7	80.7	128.0	33.40	2.77	2.77	3.48	1.78	12.30	12.30
	7	10	5	12.22	9.59	57.54	2.46	2.46	93	93	148	38.30	2.76	2.76	3.48	1.77	14.20	14.20
	10	10	7	17	13.30	79.80	2.57	2.57	125	125	199	51.70	2.71	2.71	3.42	1.74	19.50	19.50
	12	11	4.8	20.3	15.90	95.40	2.66	2.66	148	148	234	61.70	2.7	2.7	3.4	1.75	23.30	23.30
	13	10	7	21.71	17.00	102.00	2.69	2.69	156	156	248	65.30	2.68	2.68	3.38	1.73	24.80	24.80
100X100	7	10	5	13.62	10.70	64.20	2.71	2.71	129	129	205	53.20	3.08	3.08	3.88	1.98	17.70	17.70
	10	10	7	19	14.90	89.40	2.82	2.82	175	175	278	72.00	3.04	3.04	3.83	1.95	24.40	24.40
	12	12	4.8	22.7	17.80	106.80	2.90	2.9	207	207	328	85.70	3.02	3.02	3.8	1.94	29.10	29.10
120X120	8	12	5	18.76	14.70	88.20	3.24	3.24	258	258	410	106.00	3.71	3.71	4.67	2.38	29.50	29.50
130X130	9	12	6	22.74	17.90	107.40	3.53	3.53	366	366	583	150.00	4.01	4.01	5.06	2.57	38.70	38.70
	12	12	8.5	29.76	23.40	140.40	3.64	3.64	467	467	743	192.00	3.96	3.96	5	2.54	49.90	49.90
	15	12	8.5	36.75	28.80	172.80	3.76	3.76	568	568	902	234.00	3.93	3.93	4.95	2.53	61.50	61.50
150X150	12	14	7	34.77	27.30	163.80	4.14	4.14	740	740	1,180	304.00	4.61	4.61	5.82	2.96	68.10	68.10
	15	14	10	42.74	33.60	201.60	4.24	4.24	888	888	1,410	365.00	4.56	4.56	5.75	2.92	82.60	82.60
	19	14	10	53.38	41.90	251.40	4.40	4.4	1,090	1,090	1,370	451.00	4.52	4.52	5.69	2.91	103.00	103.00
175X175	12	15	11	40.52	31.80	190.80	4.73	4.73	1,170	1,170	1,860	480.00	5.38	5.38	6.78	3.44	114.00	114.00
	15	15	11	50.21	39.40	236.40	4.85	4.85	1,440	1,440	2,260	589.00	5.35	5.35	6.75	3.42	150.00	150.00
200X200	15	17	12	57.75	45.30	271.80	5.46	5.46	2,180	2,180	3,470	891.00	6.14	6.14	7.75	3.92	197.00	197.00
	20	17	12	76.00	59.70	358.20	5.67	5.67	2,820	2,820	4,490	1160.00	6.09	6.09	7.68	3.90	242.00	242.00
	25	17	12	96.75	73.60	441.60	5.86	5.86	3,420	3,420	5,420	1410.00	6.04	6.04	7.61	3.88	388.00	388.00
250X250	25	24	12	119.4	93.70	562.20	7.10	7.1	6,950	6,950	11,000	2860.00	7.63	7.63	9.62	4.9	388.00	388.00
	35	24	18	162.6	128.00	768.00	7.45	7.45	9,110	9,110	14,400	3790.00	7.49	7.49	9.42	4.83	519.00	519.00