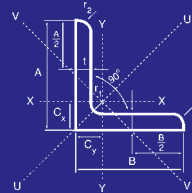


EQUAL ANGLE

SIZES AND PROPERTIES
TIS/JIS STANDARDS

(TIS 1227 : 2539 / JIS G3192 : 1990)

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



Standard Sectional Dimension (mm.)				Sectional Area (cm ² .)	Weight (kg./m.)	Position of Center of Gravity (cm.)		Moment of Inertia (cm ⁴ .)				Radius of Gyration of Area (cm.)				Modulus of Section (cm ³ .)	
AxB	t	r ₁	r ₂			C _x	C _y	I _x	I _y	Max I _x	Min I _y	i _x	i _y	Max i _x	Min i _y	Z _x	Z _y
25x25	3	4.0	2.0	1.427	1.12	0.719	0.719	0.797	0.797	1.26	0.332	0.747	0.747	0.94	0.483	0.448	0.448
	5	3.5	2.4	2.26	1.77	0.80	0.80	1.20	1.20	1.89	0.52	0.73	0.73	0.91	0.480	0.71	0.71
30x30	3	4.0	2.0	1.727	1.36	0.844	0.844	1.42	1.42	2.26	0.59	0.908	0.908	1.14	0.585	0.661	0.661
	5	5.0	2.4	2.78	2.18	0.92	0.92	2.16	2.16	3.41	0.92	0.88	0.88	1.11	0.570	1.04	1.04
40x40	3	4.5	2.0	2.336	1.83	1.09	1.09	3.53	3.53	5.60	1.46	1.23	1.23	1.55	0.790	1.21	1.21
	4	6	2.4	3.08	2.42	1.12	1.12	4.47	4.47	7.09	1.85	1.21	1.21	1.52	0.780	1.55	1.55
	5	4.5	3.0	3.755	2.95	1.17	1.17	5.42	5.42	8.59	2.25	1.20	1.20	1.51	0.774	1.91	1.91
	6	6.0	2.4	4.48	3.52	1.20	1.20	6.31	6.31	9.98	2.65	1.19	1.19	1.49	0.770	2.26	2.26
45x45	4	6.5	3.0	3.492	2.74	1.24	1.24	6.50	6.50	10.3	2.70	1.36	1.36	1.72	0.880	2.00	2.00
	5	6.5	3.0	4.302	3.38	1.28	1.28	7.91	7.91	12.5	3.29	1.36	1.36	1.71	0.874	2.46	2.46
50x50	3	7.0	2.4	2.96	2.33	1.31	1.31	6.86	6.86	10.8	2.88	1.52	1.52	1.91	0.990	1.86	1.86
	4	6.5	3.0	3.892	3.06	1.37	1.37	9.06	9.06	14.4	3.76	1.53	1.53	1.92	0.983	2.49	2.49
	5	6.5	3.0	4.802	3.77	1.41	1.41	11.1	11.1	17.5	4.58	1.52	1.52	1.91	0.976	3.08	3.08

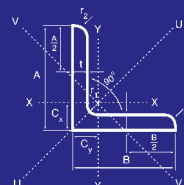
	6	6.5	4.5	5.644	4.43	1.44	1.44	12.6	12.6	20.0	5.23	1.50	1.50	1.88	0.963	3.55	3.55
60x60	4	6.5	3.0	4.692	3.68	1.61	1.61	16.0	16.0	25.4	6.62	1.85	1.85	2.33	1.19	3.66	3.66
	5	6.5	3.0	5.802	4.55	1.66	1.66	19.6	19.6	31.2	8.09	1.84	1.84	2.32	1.18	4.52	4.52
65x65	5	8.5	3.0	6.367	5.00	1.77	1.77	25.3	25.3	40.1	10.5	1.99	1.99	2.51	1.28	5.35	5.35
	6	8.5	4.0	7.527	5.91	1.81	1.81	29.4	29.4	46.6	12.2	1.98	1.98	2.49	1.27	6.26	6.26
	8	8.5	6.0	9.761	7.66	1.88	1.88	36.8	36.8	58.3	15.3	1.94	1.94	2.44	1.25	7.96	7.96
70x70	6	8.5	4.0	8.127	6.38	1.93	1.93	37.1	37.1	58.9	15.3	2.14	2.14	2.69	1.37	7.33	7.33
75x75	6	8.5	4.0	8.727	6.85	2.06	2.06	46.1	46.1	73.2	19.0	2.30	2.30	2.90	1.48	8.47	8.47
	9	8.5	6.0	12.69	9.96	2.17	2.17	64.4	64.4	102	26.7	2.25	2.25	2.84	1.45	12.1	12.1
	12	8.5	6.0	16.56	13.00	2.29	2.29	81.9	81.9	129	34.5	2.22	2.22	2.79	1.44	15.7	15.7
80x80	6	8.5	4.0	9.327	7.32	2.18	2.18	56.4	56.4	89.6	23.2	2.46	2.46	3.10	1.58	9.70	9.70
90x90	6	10	5.0	10.55	8.28	2.42	2.42	80.7	80.7	128	33.4	2.77	2.77	3.48	1.78	12.3	12.3
	7	10	5.0	12.22	9.59	2.46	2.46	93.0	93.0	148	38.3	2.76	2.76	3.48	1.77	14.2	14.2
	10	10	7.0	17.00	13.3	2.57	2.57	125	125	199	51.7	2.71	2.71	3.42	1.74	19.5	19.5
	12	11	4.8	20.30	15.9	2.66	2.66	148	148	234	61.7	2.70	2.70	3.40	1.75	23.3	23.3
	13	10	7.0	21.71	17.0	2.69	2.69	156	156	248	65.3	2.68	2.68	3.38	1.73	24.8	24.8
100x100	7	10	5.0	13.62	10.7	2.71	2.71	129	129	205	53.2	3.08	3.08	3.88	1.98	17.7	17.7
	10	10	7.0	19.0	14.9	2.82	2.82	175	175	278	72.0	3.04	3.04	3.83	1.95	24.4	24.4
	12	12	4.8	22.7	17.8	2.90	2.90	207	207	328	85.7	3.02	3.02	3.80	1.94	29.1	29.1
120x120	8	12	5.0	18.76	14.7	3.24	3.24	258	258	410	106	3.71	3.71	4.67	2.38	29.5	29.5
130x130	9	12	6.0	22.74	17.9	3.53	3.53	366	366	583	150	4.01	4.01	5.06	2.57	38.7	38.7

EQUAL ANGLE

SIZES AND PROPERTIES
TIS/JIS STANDARDS

(TIS 1227 : 2539 / JIS G3192 : 1990)

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Standard Sectional Dimension (mm.)				Sectional Area (cm ² .)	Weight (kg./m.)	Position of Center of Gravity (cm.)		Moment of Inertia (cm ⁴ .)				Raidus of Gyration of Area (cm.)				Modulus of Section (cm ³ .)	
AxB	t	r ₁	r ₂			C _x	C _y	I _x	I _y	Max I _x	Min I _y	i _x	i _y	Max i _x	Min i _y	Z _x	Z _y
130x130	12	12	8.5	29.76	23.4	3.64	3.64	467	467	743	192	3.96	3.96	5.00	2.54	49.9	49.9
	15	12	8.5	36.75	28.8	3.76	3.76	568	568	902	234	3.93	3.93	4.95	2.53	61.5	61.5
150x150	12	14	7.0	34.77	27.3	4.14	4.14	740	740	1,180	304	4.61	4.61	5.82	2.96	68.1	68.1
	15	14	10	42.74	33.6	4.24	4.24	888	888	1,410	365	4.56	4.56	5.75	2.92	82.6	82.6
	19	14	10	53.38	41.9	4.40	4.40	1,090	1,090	1,370	451	4.52	4.52	5.69	2.91	103	103
175x175	12	15	11	40.52	31.8	4.73	4.73	1,170	1,170	1,860	480	5.38	5.38	6.78	3.44	91.8	91.8
	15	15	11	50.21	39.4	4.85	4.85	1,440	1,440	2,260	589	5.35	5.35	6.75	3.42	114	114
200x200	15	17	12	57.75	45.3	5.46	5.46	2,180	2,180	3,470	891	6.14	6.14	7.75	3.92	150	150
	20	17	12	76.00	59.7	5.67	5.67	2,820	2,820	4,490	1,160	6.09	6.09	7.68	3.90	197	197
	25	17	12	93.75	73.6	5.86	5.86	3,420	3,420	5,420	1,410	6.04	6.04	7.61	3.88	242	242
250x250	25	24	12	119.4	93.7	7.10	7.10	6,950	6,950	11,000	2,860	7.63	7.63	9.62	4.90	388	388
	35	24	18	162.6	128	7.45	7.45	9,110	9,110	14,400	3,790	7.49	7.49	9.42	4.83	519	519