1 AB (Equal Leg Angles) Kashima Himeji

Geometrical of inertia $I=ai^2$
Radius of gyration of area $i=\sqrt{I/a}$
Modulus of section $Z=I/e$
(a : sectional area)
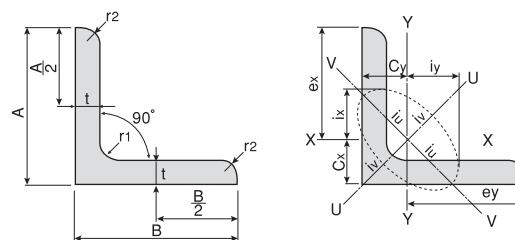
〈Product shapes, dimensions and sectional properties〉

Dimension (mm)				Sectional area (cm²)	Unit mass (kg/m)	Position of center of gravity (cm) (Cx=Cy)	Geometrical moment of inertia (cm⁴)			Radius of gyration of area (cm)			Modulus of section (cm³) (Zx=Zy)	Works	
A×B	t	r₁	r₂				Ix=Iy	max Iu	min Iv	ix=iy	max iu	min iv		Kashima	Himeji
20×20	3	4	2	1.127	0.885	0.595	0.388	0.613	0.163	0.587	0.737	0.380	0.276		○
25×25	3	4	2	1.427	1.12	0.719	0.797	1.26	0.332	0.747	0.940	0.483	0.448	○	
30×30	3	4	2	1.727	1.36	0.844	1.42	2.26	0.590	0.908	1.14	0.585	0.661	○	
	5	4	3	2.746	2.16	0.917	2.14	3.37	0.902	0.882	1.11	0.573	1.03	○	
40×40	3	4.5	2	2.336	1.83	1.09	3.53	5.60	1.46	1.23	1.55	0.790	1.21	○	
	＊4	4.5	2	3.066	2.41	1.13	4.55	7.23	1.88	1.22	1.54	0.783	1.59	○	
	5	4.5	3	3.755	2.95	1.17	5.42	8.59	2.25	1.20	1.51	0.774	1.91	○	
	＊6	4.5	3	4.445	3.49	1.20	6.31	9.97	2.64	1.19	1.50	0.771	2.26	○	
45×45	3	6.5	2	2.684	2.11	1.20	5.12	8.09	2.15	1.38	1.74	0.895	1.55	○	
	4	6.5	3	3.492	2.74	1.24	6.50	10.3	2.70	1.36	1.72	0.880	2.00	○	
	5	6.5	3	4.302	3.38	1.28	7.91	12.5	3.29	1.36	1.71	0.874	2.46	○	
50×50	3	6.5	3	2.962	2.33	1.32	6.95	11.0	2.91	1.53	1.93	0.990	1.89	○	
	4	6.5	3	3.892	3.06	1.37	9.06	14.4	3.76	1.53	1.92	0.983	2.49	○	○
	5	6.5	3	4.802	3.77	1.41	11.1	17.5	4.58	1.52	1.91	0.976	3.08	○	
	6	6.5	4.5	5.644	4.43	1.44	12.6	20.0	5.23	1.50	1.88	0.963	3.55	○	○
	8	6.5	4.5	7.364	5.78	1.52	16.1	25.4	6.76	1.48	1.86	0.958	4.62	○	
60×60	4	6.5	3	4.692	3.68	1.61	16.0	25.4	6.62	1.85	2.33	1.19	3.66	○	
	5	6.5	3	5.802	4.55	1.66	19.6	31.2	8.09	1.84	2.32	1.18	4.52	○	
	6	6.5	3	6.892	5.41	1.70	23.0	36.6	9.51	1.83	2.30	1.17	5.36	○	
65×65	5	8.5	3	6.367	5.00	1.77	25.3	40.1	10.5	1.99	2.51	1.28	5.35	○	○
	6	8.5	4	7.527	5.91	1.81	29.4	46.6	12.2	1.98	2.49	1.27	6.26	○	○
	8	8.5	6	9.761	7.66	1.88	36.8	58.3	15.3	1.94	2.44	1.25	7.96	○	
70×70	5	8.5	4	6.837	5.37	1.89	31.5	49.9	13.0	2.15	2.70	1.38	6.16		○
	6	8.5	4	8.127	6.38	1.93	37.1	58.9	15.3	2.14	2.69	1.37	7.33		○
	7	8.5	5	9.358	7.35	1.97	42.0	66.7	17.4	2.12	2.67	1.36	8.35		○
75×75	5	8.5	4	7.337	5.76	2.01	39.0	61.9	16.2	2.31	2.90	1.48	7.11	○	
	6	8.5	4	8.727	6.85	2.06	46.1	73.2	19.0	2.30	2.90	1.48	8.47	○	○
	＊8	8.5	6	11.36	8.92	2.12	58.1	92.3	24.0	2.26	2.85	1.45	10.8		○
	9	8.5	6	12.69	9.96	2.17	64.4	102	26.7	2.25	2.84	1.45	12.1	○	○
	12	8.5	6	16.56	13.0	2.29	81.9	129	34.5	2.22	2.79	1.44	15.7		○
80×80	6	8.5	4	9.327	7.32	2.18	56.4	89.6	23.2	2.46	3.10	1.58	9.70		○
	＊8	8.5	6	12.16	9.55	2.25	71.4	113	29.4	2.42	3.05	1.55	12.4		○

*Remark (1) Available lengths are as follows.
In case that A and B are under 90mm, 5.5m to 12.5m(0.5m pitch).
In case that A and B are 100 to 150mm, 5.5m to 18.5m(0.5m pitch).
Please inquire regarding other lengths.
(2) Please contact us in advance when ordering the sizes marked with ＊.

Dimension (mm) A×B	t	r₁	r₂	Sectional area (cm²)	Unit mass (kg/m)	Position of center of gravity (cm) (Cx=Cy)	Geometrical moment of inertia (cm⁴) Ix=Iy	max Iu	min Iv	Radius of gyration of area (cm) ix=iy	max iu	min iv	Modulus of section (cm³) (Zx=Zy)	Works Kashima	Himeji
90×90	6	10	5	10.55	8.28	2.42	80.7	128	33.4	2.77	3.48	1.78	12.3	○	○
	7	10	5	12.22	9.59	2.46	93.0	148	38.3	2.76	3.48	1.77	14.2	○	○
	*8	10	5	13.87	10.9	2.50	105	166	43.2	2.75	3.46	1.77	16.1		○
	*9	10	5	15.50	12.2	2.53	114	181	46.9	2.72	3.43	1.75	17.6		○
	10	10	7	17.00	13.3	2.57	125	199	51.7	2.71	3.42	1.74	19.5	○	○
	13	10	7	21.71	17.0	2.69	156	248	65.3	2.68	3.38	1.73	24.8	○	○
100×100	*6	10	5	11.75	9.22	2.66	112	178	46.3	3.09	3.89	1.98	15.3		○
	7	10	5	13.62	10.7	2.71	129	205	53.2	3.08	3.88	1.98	17.7	○	○
	*8	10	6	15.42	12.1	2.75	145	230	59.4	3.06	3.86	1.96	19.9		○
	*9	10	7	17.19	13.5	2.78	159	253	65.3	3.04	3.84	1.95	22.1		○
	10	10	7	19.00	14.9	2.82	175	278	72.0	3.04	3.83	1.95	24.4	○	○
	13	10	7	24.31	19.1	2.94	220	348	91.1	3.00	3.78	1.94	31.1	○	○
120×120	8	12	5	18.76	14.7	3.24	258	410	106	3.71	4.67	2.38	29.5		○
	*10	12	6	23.15	18.2	3.32	314	499	129	3.68	4.64	2.36	36.2		○
	*12	12	8.5	27.36	21.5	3.39	363	576	149	3.64	4.59	2.33	42.1		○
130×130	9	12	6	22.74	17.9	3.53	366	583	150	4.01	5.06	2.57	38.7		○
	*10	12	6	25.15	19.7	3.57	403	641	165	4.00	5.05	2.56	42.8		○
	*11	12	8.5	27.39	21.5	3.59	432	687	177	3.97	5.01	2.54	45.9		○
	12	12	8.5	29.76	23.4	3.64	467	743	192	3.96	5.00	2.54	49.9		○
	15	12	8.5	36.75	28.8	3.76	568	902	234	3.93	4.95	2.53	61.5		○
150×150	10	14	7	29.21	22.9	4.05	627	997	258	4.63	5.84	2.97	57.3		○
	*11	14	7	32.00	25.1	4.10	684	1,090	281	4.62	5.83	2.96	62.8		○
	12	14	7	34.77	27.3	4.14	740	1,180	304	4.61	5.82	2.96	68.1		○
	15	14	10	42.74	33.6	4.24	888	1,410	365	4.56	5.75	2.92	82.6		○
	*16	14	10	45.43	35.7	4.28	940	1,490	386	4.55	5.73	2.92	87.7		○
	19	14	10	53.38	41.9	4.40	1,090	1,730	451	4.52	5.69	2.91	103		○

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