

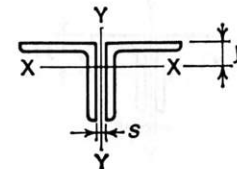
DOUBLE ANGLES
Two equal leg angles
Properties of sections

Designation	Wt. per Ft 2 Angles Lb.	Area of 2 Angles In. ²	AXIS X-X				AXIS Y-Y			Q _s *			
			I In. ⁴	S In. ³	r In.	y In.	Radii of Gyration Back to Back of Angles, In.			Angles in Contact		Angles Separated	
							0	3/8	3/4	F _y = 36 ksi	F _y = 50 ksi	F _y = 36 ksi	F _y = 50 ksi
			In. ⁴	In. ³	In.	In.	0	3/8	3/4	36 ksi	50 ksi	36 ksi	50 ksi
L 8×8×1/8	113.8	33.5	195.0	35.1	2.42	2.41	3.42	3.55	3.69	—	—	—	—
	102.0	30.0	177.0	31.6	2.44	2.37	3.40	3.53	3.67	—	—	—	—
	90.0	26.5	159.0	28.0	2.45	2.32	3.38	3.51	3.64	—	—	—	—
	77.8	22.9	139.0	24.4	2.47	2.28	3.36	3.49	3.62	—	—	—	—
	65.4	19.2	118.0	20.6	2.49	2.23	3.34	3.47	3.60	—	—	.997	.935
1/2	52.8	15.5	97.3	16.7	2.50	2.19	3.32	3.45	3.58	.995	.921	.911	.834
L 6×6×1	74.8	22.0	70.9	17.1	1.80	1.86	2.59	2.73	2.87	—	—	—	—
	66.2	19.5	63.8	15.3	1.81	1.82	2.57	2.70	2.85	—	—	—	—
	57.4	16.9	56.3	13.3	1.83	1.78	2.55	2.68	2.82	—	—	—	—
	48.4	14.2	48.3	11.3	1.84	1.73	2.53	2.66	2.80	—	—	—	—
	39.2	11.5	39.8	9.23	1.86	1.68	2.51	2.64	2.78	—	—	—	.961
3/8	29.8	8.72	30.8	7.06	1.88	1.64	2.49	2.62	2.75	.995	.921	.911	.834
L 5×5×3/8	54.4	16.0	35.5	10.3	1.49	1.57	2.16	2.30	2.45	—	—	—	—
	47.2	13.9	31.5	9.06	1.51	1.52	2.14	2.28	2.42	—	—	—	—
	32.4	9.50	22.5	6.31	1.54	1.43	2.10	2.24	2.38	—	—	—	—
	24.6	7.22	17.5	4.84	1.56	1.39	2.09	2.22	2.35	—	—	.982	.919
	20.6	6.05	14.8	4.08	1.57	1.37	2.08	2.21	2.34	.995	.921	.911	.834
L 4×4×3/4	37.0	10.9	15.3	5.62	1.19	1.27	1.74	1.88	2.03	—	—	—	—
	31.4	9.22	13.3	4.80	1.20	1.23	1.72	1.86	2.00	—	—	—	—
	25.6	7.50	11.1	3.95	1.22	1.18	1.70	1.83	1.98	—	—	—	—
	19.6	5.72	8.72	3.05	1.23	1.14	1.68	1.81	1.95	—	—	—	—
	16.4	4.80	7.43	2.58	1.24	1.12	1.67	1.80	1.94	—	—	.997	.935
1/4	13.2	3.88	6.08	2.09	1.25	1.09	1.66	1.79	1.93	.995	.921	.911	.834

* Where no value of Q_s is shown, the angles comply with the noncompact section criteria of Specification Sect. B5.1 and may be considered fully effective.

For F_y = 36 ksi: C_c = 126.1/√Q_s
 For F_y = 50 ksi: C_c = 107.0/√Q_s

DOUBLE ANGLES
Two equal leg angles
Properties of sections



Designation	Wt. per Ft 2 Angles Lb.	Area of 2 Angles In. ²	AXIS X-X				AXIS Y-Y			Q _s *			
			I In. ⁴	S In. ³	r In.	y In.	Radii of Gyration Back to Back of Angles, In.			Angles in Contact		Angles Separated	
							0	3/8	3/4	F _y = 36 ksi	F _y = 50 ksi	F _y = 36 ksi	F _y = 50 ksi
			In. ⁴	In. ³	In.	In.	0	3/8	3/4	36 ksi	50 ksi	36 ksi	50 ksi
L 3½×3½×3/8	17.0	4.97	5.73	2.30	1.07	1.01	1.48	1.61	1.75	—	—	—	—
	14.4	4.18	4.90	1.95	1.08	.990	1.47	1.60	1.74	—	—	—	.986
	11.6	3.38	4.02	1.59	1.09	.968	1.46	1.59	1.73	—	.982	.965	.897
L 3 ×3 ×1/2	18.8	5.50	4.43	2.14	.898	.932	1.29	1.43	1.59	—	—	—	—
	14.4	4.22	3.52	1.67	.913	.888	1.27	1.41	1.56	—	—	—	—
	12.2	3.55	3.02	1.41	.922	.865	1.26	1.40	1.55	—	—	—	—
1/4	9.8	2.88	2.49	1.15	.930	.842	1.26	1.39	1.53	—	—	—	.961
	7.42	2.18	1.92	.882	.939	.820	1.25	1.38	1.52	.995	.921	.911	.834
	L 2½×2½×3/8	11.8	3.47	1.97	1.13	.753	.762	1.07	1.21	1.36	—	—	—
10.0		2.93	1.70	.964	.761	.740	1.06	1.20	1.35	—	—	—	—
8.2		2.38	1.41	.789	.769	.717	1.05	1.19	1.34	—	—	—	—
3/8	6.14	1.80	1.09	.606	.778	.694	1.04	1.18	1.32	—	—	.982	.919
L 2 ×2 ×3/8	9.4	2.72	.958	.702	.594	.636	.870	1.01	1.17	—	—	—	—
	7.84	2.30	.832	.681	.601	.614	.859	1.00	1.16	—	—	—	—
	6.38	1.88	.695	.494	.609	.592	.849	.989	1.14	—	—	—	—
	4.88	1.43	.545	.381	.617	.569	.840	.977	1.13	—	—	—	—
1/8	3.30	.960	.380	.261	.626	.546	.831	.965	1.11	.995	.921	.911	.834

* Where no value of Q_s is shown, the angles comply with the noncompact section criteria of Specification Sect. B5.1 and may be considered fully effective.

For F_y = 36 ksi: C_c = 126.1/√Q_s
 For F_y = 50 ksi: C_c = 107.0/√Q_s