

## Miscellaneous Shapes

### Double Angles - Two Unequal Leg Angles - Short Legs Back to Back

#### CAFCO® 300 Series, CAFCO® 400 & ISOLATEK® Type 300 Series, ISOLATEK® Type 400

ASTM Desig.	W/D	Metric Desig.	M/D	Hp/A	1-Hour	1-1/2 Hour	2-Hour	3-Hour	4-Hour
L8 x 6 x 1	1.97	203 x 152 x 25.4	116.2	68.0	3/8	9/16	11/16	1-1/16	1-3/8
x 7/8	1.74	x 22.2	102.7	77.0	3/8	9/16	3/4	1-1/8	1-1/2
x 3/4	1.51	x 19.1	89.1	88.7	3/8	9/16	13/16	1-1/4	1-11/16
x 5/8	1.27	x 15.9	74.9	105.5	1/2	3/4	1	1-7/16	1-15/16
x 9/16	1.15	x 14.3	67.9	116.5	9/16	13/16	1-1/16	1-9/16	2-1/16
x 1/2	1.03	x 12.7	60.8	130.1	9/16	13/16	1-1/8	1-5/8	2-1/8
x 7/16	0.90	x 11.1	53.1	148.9	9/16	13/16	1-1/8	1-5/8	2-1/8
L8 x 4 x 1	1.83	203 x 102 x 25.4	108.0	73.2	3/8	9/16	3/4	1-1/8	1-7/16
x 7/8	1.62	x 22.2	95.6	82.7	3/8	9/16	13/16	1-3/16	1-5/8
x 3/4	1.41	x 19.1	83.2	95.0	7/16	11/16	7/8	1-5/16	1-3/4
x 5/8	1.19	x 15.9	70.2	112.6	1/2	3/4	1	1-1/2	2
x 9/16	1.08	x 14.3	63.7	124.1	9/16	13/16	1-1/16	1-5/8	2-1/8
x 1/2	0.95	x 12.7	56.1	141.0	9/16	13/16	1-1/8	1-5/8	2-1/8
x 7/16	0.84	x 11.1	49.6	159.5	9/16	13/16	1-1/8	1-5/8	2-1/8
L7 x 4 x 3/4	1.41	178 x 102 x 19.1	83.2	95.0	7/16	11/16	7/8	1-5/16	1-3/4
x 5/8	1.19	x 15.9	70.2	112.6	1/2	3/4	1	1-1/2	2
x 1/2	0.96	x 12.7	56.6	139.6	9/16	13/16	1-1/8	1-5/8	2-1/8
x 7/16	0.85	x 11.1	50.2	157.6	9/16	13/16	1-1/8	1-5/8	2-1/8
x 3/8	0.73	x 9.5	43.1	183.5	5/8	15/16	1-1/4	1-13/16	2-5/16
L6 x 4 x 7/8	1.64	152 x 102 x 22.2	96.8	81.7	3/8	9/16	13/16	1-3/16	1-9/16
x 3/4	1.42	x 19.1	83.8	94.4	7/16	11/16	7/8	1-5/16	1-3/4
x 5/8	1.20	x 15.9	70.8	111.7	1/2	3/4	1	1-1/2	2
x 9/16	1.08	x 14.3	63.7	124.1	9/16	13/16	1-1/16	1-5/8	2-1/8
x 1/2	0.96	x 12.7	56.6	139.6	9/16	13/16	1-1/8	1-5/8	2-1/8
x 7/16	0.85	x 11.1	50.2	157.6	9/16	13/16	1-1/8	1-5/8	2-1/8
x 3/8	0.73	x 9.5	43.1	183.5	5/8	15/16	1-1/4	1-13/16	2-5/16
x 5/16	0.61	x 7.9	36.0	219.6	11/16	1	1-5/16	1-7/8	2-3/8
L6 x 3.5 x 1/2	0.95	152 x 89 x 12.7	56.1	141.0	9/16	13/16	1-1/8	1-5/8	2-1/8
x 3/8	0.72	x 9.5	42.5	186.1	5/8	15/16	1-1/4	1-13/16	2-5/16
x 5/16	0.60	x 7.9	35.4	223.3	11/16	1	1-5/16	1-7/8	2-3/8
L5 x 3.5 x 3/4	1.41	127 x 89 x 19.1	83.2	95.0	7/16	11/16	7/8	1-5/16	1-3/4
x 5/8	1.20	x 15.9	70.8	111.7	1/2	3/4	1	1-1/2	2
x 1/2	0.96	x 12.7	56.6	139.6	9/16	13/16	1-1/8	1-5/8	2-1/8
x 3/8	0.74	x 9.5	43.7	181.1	5/8	15/16	1-1/4	1-13/16	2-5/16
x 5/16	0.62	x 7.9	36.6	216.1	11/16	1	1-5/16	1-7/8	2-3/8
x 1/4	0.50	x 6.4	29.5	268.0	13/16	1-1/8	1-7/16	2	2-9/16
L5 x 3 x 1/2	0.94	127 x 76 x 12.7	55.5	142.5	9/16	13/16	1-1/8	1-5/8	2-1/8
x 7/16	0.83	x 11.1	49.0	161.4	5/8	15/16	1-1/4	1-13/16	2-5/16
x 3/8	0.71	x 9.5	41.9	188.7	5/8	15/16	1-1/4	1-13/16	2-5/16
x 5/16	0.60	x 7.9	35.4	223.3	11/16	1	1-5/16	1-7/8	2-3/8
x 1/4	0.48	x 6.4	28.3	279.1	13/16	1-1/8	1-7/16	2	2-9/16
L4 x 3.5 x 1/2	0.97	102 x 89 x 12.7	57.2	138.1	9/16	13/16	1-1/8	1-5/8	2-1/8
x 3/8	0.74	x 9.5	43.7	181.1	5/8	15/16	1-1/4	1-13/16	2-5/16
x 5/16	0.62	x 7.9	36.6	216.1	11/16	1	1-5/16	1-7/8	2-3/8
x 1/4	0.50	x 6.4	29.5	268.0	13/16	1-1/8	1-7/16	2	2-9/16

Note: Use same thicknesses for long legs back to back

## Miscellaneous Shapes

### Double Angles - Two Unequal Leg Angles - Short Legs Back to Back

#### CAFCO® 300 Series, CAFCO® 400 & ISOLATEK® Type 300 Series, ISOLATEK® Type 400

ASTM Desig.	W/D	Metric Desig.	M/D	Hp/A	1-Hour	1-1/2 Hour	2-Hour	3-Hour	4-Hour
L4 x 3 x 5/8	1.16	102 x 76 x 15.9	68.4	115.5	9/16	13/16	1-1/16	1-9/16	2-1/16
x 1/2	0.94	x 12.7	55.5	142.5	9/16	13/16	1-1/8	1-5/8	2-1/8
x 3/8	0.72	x 9.5	42.5	186.1	5/8	15/16	1-1/4	1-13/16	2-5/16
x 5/16	0.60	x 7.9	35.4	223.3	11/16	1	1-5/16	1-7/8	2-3/8
x 1/4	0.48	x 6.4	28.3	279.1	13/16	1-1/8	1-7/16	2	2-9/16
L3.5 x 3 x 1/2	0.97	89 x 76 x 12.7	57.2	138.1	9/16	13/16	1-1/8	1-5/8	2-1/8
x 7/16	0.85	x 11.1	50.2	157.6	9/16	13/16	1-1/8	1-5/8	2-1/8
x 3/8	0.74	x 9.5	43.7	181.1	5/8	15/16	1-1/4	1-13/16	2-5/16
x 5/16	0.62	x 7.9	36.6	216.1	11/16	1	1-5/16	1-7/8	2-3/8
x 1/4	0.50	x 6.4	29.5	268.0	13/16	1-1/8	1-7/16	2	2-9/16
L3.5 x 2.5 x 1/2	0.93	89 x 64 x 12.7	54.9	144.1	9/16	13/16	1-1/8	1-5/8	2-1/8
x 3/8	0.71	x 9.5	41.9	188.7	5/8	15/16	1-1/4	1-13/16	2-5/16
x 5/16	0.60	x 7.9	35.4	223.3	11/16	1	1-5/16	1-7/8	2-3/8
x 1/4	0.48	x 6.4	28.3	279.1	13/16	1-1/8	1-7/16	2	2-9/16
L3 x 2.5 x 1/2	0.93	76 x 64 x 12.7	54.9	144.1	9/16	13/16	1-1/8	1-5/8	2-1/8
x 7/16	0.83	x 11.1	49.0	161.4	5/8	15/16	1-1/4	1-13/16	2-5/16
x 3/8	0.72	x 9.5	42.5	186.1	5/8	15/16	1-1/4	1-13/16	2-5/16
x 5/16	0.60	x 7.9	35.4	223.3	11/16	1	1-5/16	1-7/8	2-3/8
x 1/4	0.49	x 6.4	28.9	273.4	13/16	1-1/8	1-7/16	2	2-9/16
x 3/16	0.37	x 4.8	21.8	362.1	15/16	1-1/4	1-9/16	2-1/8	2-11/16
L3 x 2 x 1/2	0.89	76 x 51 x 12.7	52.5	150.5	9/16	13/16	1-1/8	1-5/8	2-1/8
x 3/8	0.69	x 9.5	40.7	194.2	5/8	15/16	1-1/4	1-13/16	2-5/16
x 5/16	0.58	x 7.9	34.2	231.0	11/16	1	1-5/16	1-7/8	2-3/8
x 1/4	0.47	x 6.4	27.7	285.1	13/16	1-1/8	1-7/16	2	2-9/16
x 3/16	0.36	x 4.8	21.2	372.2	15/16	1-1/4	1-9/16	2-1/8	2-11/16
L2.5 x 2 x 3/8	0.69	64 x 51 x 9.5	40.7	194.2	5/8	15/16	1-1/4	1-13/16	2-5/16
x 5/16	0.58	x 7.9	34.2	231.0	11/16	1	1-5/16	1-7/8	2-3/8
x 1/4	0.47	x 6.4	27.7	285.1	13/16	1-1/8	1-7/16	2	2-9/16
x 3/16	0.36	x 4.8	21.2	372.2	15/16	1-1/4	1-9/16	2-1/8	2-11/16

Note: Use same thicknesses for long legs back to back