



LEAVITT

The Tube People

Hollow Structural Sections Structural Tubing

1717 W. 115th Street, Chicago, IL 60643 • Phone 773-239-7700 or 800-Leavitt • Fax 773-239-1023 • www.leavitt-tube.com



THEORETICAL WEIGHT PER FOOT FACTORS

OUTSIDE DIMENSION			Nominal Wall Thickness																	
SQUARE	RECTANGLES		0.085 16 Ga.	0.072 15 Ga.	0.063 14 Ga.	0.095 13 Ga.	0.109 12 Ga.	1/8"	0.134 10 Ga.	0.148 9 Ga.	0.165 8 Ga.	3/16"	0.203 6 Ga.	0.220 5 Ga.	1/4"	5/16"	3/8"	1/2"		
1-1/2 x 1-1/2			Mechanical Tubing — See reverse side						2.33	2.63	2.76	3.04								
2 x 2	1 x 3	1-1/2 x 2-1/2	1.71	1.69	2.16	2.46	2.80	3.05	3.25	3.54	3.88	4.32	4.60	4.91	5.41					
	2-1/16 x 2-1/8		1.76	1.94	2.21	2.51	2.84	3.21	3.42	3.73	4.09	4.56	4.88	5.18	5.73					
2-1/8 x 2-1/8	1-1/4 x 3		1.79	1.97	2.25	2.55	2.89	3.27	3.47	3.79	4.16									
2.17 x 2.17			1.83	2.01	2.30	2.60	2.95	3.34	3.56	3.88	4.26	4.75	5.07	5.42	5.99					
	1-1/2 x 3		1.90	2.09	2.39	2.71	3.07	3.48	3.70	4.04	4.44	4.96	5.29	5.65	6.26					
2-1/2 x 2-1/2	1-1/2 x 3-1/2	2 x 3	2.12	2.33	2.67	3.03	3.44	3.90	4.16	4.55	5.01	5.59	5.99	6.40	7.11					
	2-1/2 x 3				2.95	3.35	3.81	4.33	4.61	5.05	5.57	6.23	6.68	7.15	7.96					
3 x 3	2 x 4	2-1/2 x 3-1/2			3.24	3.68	4.19	4.75	5.07	5.55	6.13	6.87	7.37	7.90	8.81					
	2 x 4-1/2				3.52	4.00	4.56	5.18	5.53	6.06	6.69	7.51	8.06	8.65	9.66					
3-1/2 x 3-1/2	2 x 5	3 x 4			3.80	4.32	4.93	5.61	5.98	6.56	7.25	8.15	8.75	9.40	10.51					
4 x 4	2 x 6	3 x 5			4.36	4.97	5.67	6.46	6.89	7.57	8.37	9.42	10.13	10.89	12.21	14.83	17.27	21.63		
	3 x 6											10.70	11.51	12.39	13.91	16.06	19.82	25.03		
5 x 5	4 x 6	2 x 8										11.97	12.89	13.89	15.62	19.08	22.37	28.43		
	3 x 8	4 x 7										13.25	14.27	15.39	17.32	21.21	24.93	31.84		
6 x 6	2 x 10	4 x 8	6 x 7									14.53	15.66	16.88	19.02	23.34	27.48	35.24		
7 x 7	2 x 12	4 x 10	6 x 8									17.08	18.42	19.98	22.42	27.59	32.58	42.05		
8 x 8	4 x 12	6 x 10										19.63	21.18	22.87	25.82	31.84	37.69	48.85		
	6 x 12	8 x 10													28.23	36.10	42.79	55.86		
10 x 10	8 x 12														32.63	40.35	47.90	62.46		

This table is based on commonly used sizes. Other sizes are within Leavitt Tube Company's production capabilities. We invite your inquiry.

TENSILE REQUIREMENTS		
	ASTM A-500 Grades	
	B	C
Tensile Strength, min. psi	58,000	62,000
Yield Strength, min. psi	48,000	50,000
Elongation in 2 in. min. %	28*	21**

Straightness Tolerance	Corner Radius Max.	Squareness of Sides
.025" per ft.	3 x nominal wall thickness	90° ±2°

WALL THICKNESS TOLERANCES	
+10% of the specified nominal wall thickness	

*For 0.180" Wall and Over. **For 0.120" Wall and Over.

OUTSIDE DIMENSION TOLERANCES***	
Largest Outside Dimension, Across Flats, Inches	Tolerance, Inches
2-1/2 and Under	±0.020
Over 2-1/2 to 3-1/2 Incl.	±0.025
Over 3-1/2 to 5-1/2 Incl.	±0.030
Over 5-1/2	±1 Percent

*** Measured at least 2" from tube end

CUTTING TOLERANCES	
Mill Saw-Cut	Recut
-1/4" + All	1' to 15' ±1/16" Over 15' ±1/8"

TWIST TOLERANCES	
Specified Dimension of Longest Side, Inches	Maximum Twist in the First 3 Ft. and in Each Additional 3 Ft.
1-1/2 and Under	0.050"
Over 1-1/2 to 2-1/2 Incl.	0.062"
Over 2-1/2 to 4 Incl.	0.075"
Over 4 to 6 Incl.	0.087"
Over 6 to 8 Incl.	0.100"
Over 8	0.112"

NOTE: Reference: ASTM A-500-LATEST.