

# EXLTUBE

## SQUARE AND RECTANGULAR STRUCTURAL TUBING

OUTSIDE DIAMETER		NOMINAL WALL THICKNESS			
Square	Rectangle	14 0.075	11 0.120	3/16 0.188	1/4 0.250
2 x 2		2.16	3.070	4.320	5.410
2-1/2 x 2-1/2		2.67	3.900	5.590	7.110
	3 x 2	2.67	3.900	5.590	7.110
3 x 3		3.23	4.750	6.870	8.810
	4 x 2	32.3	4.750	6.870	8.810
3-1/2 x 3-1/2		3.87	5.610	8.150	10.510
	4 x 3	3.87	5.610	8.150	10.510
	5 x 2	3.87	5.610	8.150	10.510
4 x 4		6.460	9.420	12.210	
	5 x 3	6.460	9.420	12.210	
	6 x 2	6.460	9.420	12.210	
	6 x 3	7.330	10.710	13.900	
5 x 5		8.150	11.970	15.620	
	6 x 4	8.150	11.970	15.620	
	7 x 3	8.150	11.970	15.620	
6 x 6			14.530	19.020	
	7 x 5		14.530	19.020	
	8 x 4		14.530	19.020	

Weight in Pounds Per Foot

### Tensile Requirements ASTM A500

Grade	Round Structural Tubing			
	A	B	C	D
Tensile Min. PSI	45,000	58,000	62,000	58,000
Yield Min. PSI	33,000	42,000	46,000	36,000
Elongation in 2" Min	25%	23%	21%	23%

Grade	Shaped Structural Tubing			
	A	B	C	D
Tensile Min. PSI	45,000	58,000	62,000	58,000
Yield Min. PSI	39,000	48,000	50,000	36,000
Elongation in 2" Min	25%	23%	21%	23%

### A500 - Chemical Requirements

Element	Grade A & B		Grade C	
	Heat Analysis	Product Analysis	Heat Analysis	Product Analysis
Carbon	0.260	0.3	0.23	0.27
Manganese			1.35	1.4
Phosphorus	0.035	0.045	0.035	0.045
Sulfur	0.035	0.045	0.035	0.045
Copper	0.200	0.18	0.2	0.18

(when copper steel is specified)

### SCHEDULE 40 SPECIFICATIONS

Pipe Size (NPS)	Nominal I.D.			WT. / FT. Lb.
	OD	Inches	Wall	
2	2.375	2.067	0.154	3.66
2-1/2	2.875	2.469	0.203	5.80
3	3.500	3.068	0.216	7.58
3-1/2	4.000	3.548	0.226	9.12
4	4.500	4.026	0.237	10.80
5	5.563	5.047	0.258	14.63
6	6.625	6.065	0.280	18.99

### SCHEDULE 10 SPECIFICATIONS

Pipe Size (NPS)	Nominal I.D.			WT. / FT. Lb.
	OD	Inches	Wall	
2	2.375	2.157	0.109	2.64
2-1/2	2.875	2.635	0.120	3.53
3	3.500	3.260	0.120	4.34
3-1/2	4.000	3.760	0.120	4.98
4	4.500	4.260	0.120	5.62
5	5.563	5.295	0.134	7.78
6	6.625	6.357	0.134	9.30

### NON-SCHEDULE SPECIFICATIONS

Pipe Size (NPS)	Nominal I.D.			WT. / FT. Lb.
	OD	Inches	Wall	
6	6.625	6.249	0.188	12.94
6	6.625	6.125	0.250	17.04

Specified Outside Large Flat Dimension, in. (mm)

Maximum Permissible Variations in Twist per 3ft (1 meter) of Length

1-1/2 (2501) and Under	0.050	1.390
Over 1-1/2 to 2-1/2 (38.1 to 63.5) Incl	0.062	1.720
Over 2-1/2 to 4 (63.5 to 101.6) Incl	0.075	2.090
Over 4 to 6 (101.6 to 152.4) Incl	0.087	2.420
Over 6 to 8 (152.4 to 203.2) Incl	0.100	2.780

### Outside Dimensions

Widest Side (IN)  
 2-1/2" & under +- .025  
 Over 2-1/2 to 3-1/2 +- .025  
 3-1/2 to 5-1/2 +- .030  
 Over 5-1/2 +- 1%

### Structural Tubing Tolerances

**Corner Radius:** 3x Nominal Wall Thickness  
**Straightness:** 0.25" per FT.  
**Squareness of Sides:** 90 +- 2  
**Length:** -0 +All  
**Wall Thickness:** +- 10%