



# EXLTUBE



## SQUARE, RECTANGULAR AND ROUND STRUCTURAL TUBING

OUTSIDE DIAMETER		NOMINAL WALL THICKNESS					
		14 ga .083	11 ga .120	3/16 .188	1/4 .250	5/16 .313	3/8 .375
SQUARE	1-1/2 x 1-1/2	1.600	2.250	3.040			
	2 x 1	1.600	2.250				
RECTANGLE	2 x 2	2.164	3.070	4.320	5.410		
	2 x 1-1/2	2.164	3.070				
	3 x 1	2.164	3.070				
	3 x 1-1/2	2.450	3.480	4.940			
2-1/2 x 2-1/2		2.728	3.900	5.590	7.110		
	3 x 2	2.728	3.900	5.590	7.110		
3 x 3		3.263	4.750	6.870	8.810	10.580	
	4 x 2	3.263	4.750	6.870	8.810		
3-1/2 x 3-1/2			5.610	8.150	10.510		
	4 x 3		5.610	8.150	10.510		
	5 x 2		5.610	8.150	10.510		
4 x 4			6.460	9.420	12.210	14.830	17.270
	5 x 3		6.460	9.420	12.210		
	6 x 2		6.460	9.420	12.210		
	5 x 4				13.900	16.960	19.820
	6 x 3			10.700	13.900	16.960	
5 x 5				11.970	15.620	19.080	22.370
	6 x 4			11.970	15.620	19.080	22.370
6 x 6				14.530	19.020	23.340	27.480
	8 x 4			14.530	19.020	23.340	27.480

### STRUCTURAL TUBING TOLERANCES

Corner Radius: 3x Nominal Wall Thickness  
 Straightness: .025" per FT.  
 Squareness of Sides: 90° +/- 2°  
 Length: -0 +All  
 Wall Thickness: +/- 10%

### OUTSIDE DIMENSIONS

Widest Side (IN)  
 2-1/2 & under +/- .020  
 Over 2-1/2 to 3-1/2 +/- .025  
 3-1/2 to 5-1/2 +/- .030  
 Over 5-1/2 +/- 1%

### TENSILE REQUIREMENTS ASTM A500

#### Round Structural Tubing

Grade	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%

#### Shaped Structural Tubing

Grade	A	B	C	D
Tensile Min. PSI	45,000	58,000	62,000	58,000
Yield Min. PSI	39,000	46,000	50,000	36,000
Elongation in 2" Min	25%	23%	21%	23%

#### A500 -Chemical Requirements

	Grade A & B		Grade C	
	Heat Analysis	Product Analysis	Heat Analysis	Product Analysis
Carbon	0.260	0.300	0.230	0.270
Manganese	1.350	1.400	1.350	1.400
Phosphorus	0.035	0.045	0.035	0.045
Sulfur	0.035	0.045	0.035	0.045
Copper	0.200	0.180	0.200	0.180

### Schedule 10 Specifications

Pipe Size (NPS)	Nominal I.D.		WT. / FT. lbs.
	OD	Wall	
1-1/4	1.660	0.109	1.810
1-1/2	1.900	0.109	2.090
2	2.375	0.109	2.640
2-1/2	2.875	0.120	3.531
3	3.500	0.120	4.332
3-1/2	4.000	0.120	4.973
4	4.500	0.120	5.610
5	5.563	0.134	7.770
6	6.625	0.134	9.290

### Schedule 40 Specifications

Pipe Size (NPS)	Nominal I.D.		WT. / FT. lbs.
	OD	Wall	
1-1/4	1.660	0.140	2.270
1-1/2	1.900	0.145	2.720
2	2.375	0.154	3.650
2-1/2	2.875	0.203	5.800
3	3.500	0.216	7.580
3-1/2	4.000	0.226	9.120
4	4.500	0.237	10.800
5	5.563	0.258	14.630
6	6.625	0.280	18.990

### Schedule 80 Specifications

Pipe Size (NPS)	Nominal I.D.		WT. / FT. lbs.
	OD	Wall	
1-1/4	1.660	0.191	3.000
1-1/2	1.900	0.200	3.630
2	2.375	0.218	5.030
2-1/2	2.875	0.276	7.660
3	3.500	0.300	10.260
3-1/2	4.000	0.318	12.510
4	4.500	0.337	15.000
5	5.563	0.375	20.780

### Non-Schedule Specifications

Pipe Size (NPS)	Nominal I.D.		WT. / FT. lbs.
	OD	Wall	
6	6.625	0.188	12.940
6	6.625	0.250	17.040

### Specified Outside Large

Flat Dimension, in. (mm)

1-1/2 (38.1) 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

### Maximum Permissible Variations

in Twist per 3 ft (1 meter) of Length

1-1/2 (38.1) 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

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# STRUCTURAL BUNDLE CHART

OUTSIDE DIAMETER		20' Bundles						24' Bundles						40' Bundles						48' Bundles									
		14 ga 0.083	11 ga 0.120	3/16 0.188	1/4 0.250	5/16 0.313	3/8 0.375	14 ga 0.083	11 ga 0.120	3/16 0.188	1/4 0.250	5/16 0.313	3/8 0.375	14 ga 0.083	11 ga 0.120	3/16 0.188	1/4 0.250	5/16 0.313	3/8 0.375	14 ga 0.083	11 ga 0.120	3/16 0.188	1/4 0.250	5/16 0.313	3/8 0.375				
SQUARE	1-1/2 x 1-1/2	100	50	50				100	50	50				100	50	50				100	50	50							
	Bundle Configuration	3200	2252	3040				3840	2703	3648				6400	4504	6080													
RECTANGLE	2 x 1	112	50					112	50					100															
	2 x 2	3589	2252					4301	2703					6400															
	2 x 1-1/2	14x8	10x5					14x8	10x5					10x10															
	3 x 1	50	50	48	40			50	50	48	40			50	40	30	24							30	24				
	3 x 1-1/2	2164	3070	4147	4328			2597	3684	4977	5194			4328	4912	5184	5194							6221	6232				
	4 x 1	5x10	5x10	6x8	5x8			5x10	5x10	6x8	5x8			5x10	5x8	5x6	4x6							5x6	4x6				
	4 x 2	60	60					60	60					50	40														
	4 x 3	2597	3684					3116	4421					3764	4912														
	4 x 4	10x6	10x6					10x6	10x6					5x10	8x5														
	5 x 1	60	60					60	60					60	40														
	5 x 2	2597	3684					3116	4421					5194	4912														
	5 x 3	10x6	10x6					10x6	10x6					10x6	8x5														
	5 x 4	50	50	50				50	50	50				50	50	40													
	5 x 5	2446	3480	4939				2935	4176	5927				4892	6960	7902													
	5 x 6	5x10	5x10	5x10				5x10	5x10	5x10				5x10	5x10	5x8													
	6 x 1	48	48	35	30			48	48	35	30			48	35	24	20							24	20				
	6 x 2	2619	3744	3913	4266			3143	4493	4696	5119			5238	5460	5366	5688							6440	6826				
	6 x 3	6x8	6x8	5x7	5x6			6x8	6x8	5x7	5x6			6x8	5x7	4x6	4x5							4x5	4x5				
	6 x 4	49	49	36	30			49	49	36	30			49	35	24	20							24	20				
	6 x 5	2673	3822	4025	4266			3208	4587	4830	5119			5347	5460	5366	5688							6440	6826				
	6 x 6	7x7	7x7	6x6	6x5			7x7	7x7	6x6	6x5			7x7	7x5	6x4	5x4							6x4	5x4				
	7 x 1	42	42	30	25	20		42	42	30	25	20		36	25	20	15	15						25	20	15			
	7 x 2	2741	3990	4122	4405	4232		3289	4788	4946	5286	5078		4699	4750	5496	5286	6348						5700	6595	6343			
	7 x 3	6x7	6x7	5x6	5x5	4x5		6x7	6x7	5x6	5x5	4x5		6x6	5x5	4x5	3x5	3x5						5x5	4x5	3x5			
	7 x 4	40	40	30	25			40	40	30	25			40	25	20	15							25	20	15			
	7 x 5	2610	3800	4122	4405			3133	4560	4946	5286			5221	4750	5496	5286							5700	6595	6343			
	7 x 6	8x5	8x5	6x5	5x5			8x5	8x5	6x5	5x5			8x5	5x5	5x4	5x3							5x5	5x4	5x3			
	8 x 1	36	25	20				36	25	20				24	16	12								24	16	12			
	8 x 2	4039	4075	4204				4874	4890	5045				5386	5216	5045								6463	6259	6054			
	8 x 3	6x6	5x5	4x5				6x6	5x5	4x5				4x6	4x4	3x4								4x6	4x4	3x4			
	8 x 4	35	25	20				35	25	20				24	16	12								24	16	12			
	8 x 5	3927	4075	4204				4713	4890	5045				5386	5216	5045								6463	6259	6054			
	8 x 6	7x5	5x5	5x4				7x5	5x5	5x4				4x6	4x4	4x3								6x4	4x4	4x3			
	9 x 1	36	24	20				36	24	20				24	18	12								24	16				
	9 x 2	4039	3912	4884				4847	4694	5045				5386	5868	5045								6463	6259				
	9 x 3	9x4	8x3	5x4				9x4	8x3	5x4				6x4	6x3	4x3								6x4	4x4				
	9 x 4	30	24	20	12	9		30	24	20	12	9		20	15	12	9	9						20	15	12			
	9 x 5	3876	4522	4884	3559	3109		4651	5426	5861	4271	3730		5168	5652	5861	5339	6217						6202	6782	7033			
	9 x 6	5x6	4x6	4x5	3x4	3x3		5x6	4x6	4x5	3x4	3x3		4x5	3x5	3x4	3x3	3x3						4x5	3x5	3x4			
	10 x 1	28	24	20				28	24	20				20	15	12								20	15	12			
	10 x 2	3618	4522	4884				4341	5426	5861				5168	5652	5861								6202	6782	7033			
	10 x 3	7x4	6x4	5x4				6x5	6x4	5x4				5x4	5x3	4x3								5x4	5x3	4x3			
	10 x 4	28	24	21				28	24	21				20	15	12								20	15	12			
	10 x 5	3618	4522	5129				4341	5426	6154				5426	5652	5861								6202	6782	7033			
	10 x 6	7x4	8x3	7x3				7x4	8x3	7x3				7x3	5x3	6x2								5x4	5x3	6x2			
	11 x 1			20	16	16				20	16	16				12	9	9						12	9	9			
	11 x 2			5664	5427	6342				6677	6513	7611				6677	6106	7135						8012	7327	8562			
	11 x 3			5x4	4x4	4x4				5x4	4x4	4x4				4x3	3x3	3x3						4x3	3x3	3x3			
	11 x 4			24	16	16				24	16	16				16	12	8						16	12	8			
	11 x 5			5136	4451	5427				6163	5341	6513	7611				6848	6677	5427						8218	8012	6513		
	11 x 6			6x4	4x4	4x4				6x4	4x4	4x4	4x4				4x4	4x3	4x2						4x4	4x3	4x2		
	12 x 1			15	15	12	12				15	15	12	9				12	9	9	6						12	9	9
	12 x 2			3591	4686	4579	5369				4309	5623	5495	4832				5746	5623	6869	5369						6895	6748	8243
	12 x 3			3x5	3x5	3x4	3x4				3x5	3x5	3x4	3x3				3x4	3x3	3x3	2x3						3x4	3x3	3x3
	12 x 4			15	15	12	12				15	15	12	9				12	9	9	6						12	9	9
	12 x 5			3591	4686	4579	5369				4309	5623	5495	4832				5746	5623	6869	5369						6895	6748	8243
	12 x 6			5x3	5x3	4x3	4x3				5x3	5x3	4x3	3x3				4x3	3x3	3x3	3x2						4x3	3x3	3x2
	13 x 1			16	12	9	9				16	12	9	9				9	8	6	6						9	8	6
	13 x 2			4650	4565	4201	4946				5580	5475	5041	5936				5231	6086	5602	6595						6277	7304	6722
	13 x 3			4x4	3x4	3x3	3x3				4x4	3x4	3x3	3x3				3x3	2x4	2x3	2x3						3x3	2x4	2x3
	13 x 4			15	12	9	9				15	12	9	9				9	8	6	6						9	8	6
	13 x 5			4359	4565	4201	4946				5231	5478	5041	5936				5231	6086	5602	6595						6277	7304	6722
	13 x 6			5x3	4x3	3x3	3x3				5x3	4x3	3x3	3x3				3x3	4x2	3x2	3x2						3x3	4x2	3x2

## Schedule 10 Specifications

Pipe Size (NPS)	OD	Wall	lbs.	21'	42'
1-1/4	1.660	0.109	1.810	70	