



## ASTM A500 RECTANGULAR STRUCTURAL TUBING

SIZE	WALL THICKNESS	WEIGHT	PIECES/BN DLS	SIZE	WALL THICKNESS	WEIGHT	PIECES/BN DLS	SIZE	WALL THICKNESS	WEIGHT	PIECES/BN DLS				
Inch	Inch	lb/ft		Inch	Inch	lb/ft		Inch	Inch	lb/ft					
1.1/2" X 3/4"	0.065	0.936	100	2" X 1.1/4"	0.085	1.379	100	6" X 4"	0.120	8.012	20				
	0.072	1.057	100		0.072	1.537	100		0.134	8.926	16				
	0.08	1.156	100		0.080	1.701	100		0.148	9.837	16				
	0.083	1.176	100		0.083	1.740	100		0.188	11.970	16				
	0.09	1.291	64		0.090	1.904	64		0.203	12.880	12				
	0.095	1.331	64		0.095	1.976	64		0.250	15.600	12				
	0.109	1.506	64		0.109	2.247	64		0.313	19.080	9				
	0.12	1.640	64		0.120	2.460	64		0.375	22.370	9				
2" X 1"	0.065	1.269	100	4" X 2"	0.134	2.771	49								
	0.072	1.434	100		0.148	3.039	49								
	0.08	1.565	100		0.080	3.198	36								
	0.083	1.599	100		0.083	3.293	36								
	0.09	1.751	64		0.090	3.588	30								
	0.095	1.815	64		0.095	3.753	30								
	0.109	2.062	64		0.109	4.323	30								
	0.12	2.250	64		0.120	4.750	25								
0.134	2.499	49	0.134	5.223	25	0.148	5.740		25						
										0.188	6.870	20			
													0.203	7.847	20

<b>TOLERANCES</b>		
<b>PERMISSIBLE VARIATION IN OUTSIDE FLAT DIMENSIONS</b>	: 2.1/2" (65mm) or under : Greater than 2.1/2" to 3.1/2" : Greater than 3.1/2" to 5.1/2" : Greater than 5.1/2" Minimum wall thickness - 10% of specified (Applicable to the centers of the flats)	= ±0.50mm(0.0202 Inch) = ±0.60mm (0.025 Inch) = ± 0.80mm (0.030 Inch) = ± 0.01 times of large flat dimensions
<b>CHEMICAL PROPERTIES</b>	: %Max: C-0.30%, Mn -1.40%, S-0.045%, P- 0.045%, Cu-0.18% Min, (For A,B & D type) C-0.27%, Mn - 1.40%, S -0.045%, P -0.045%, Cu -0.18% min (For C type)	
<b>MECHANICAL PROPERTIES</b>	: (Min.) For Grade A= UTS-310 Mpa (45000 PSI),YS - 270 Mpa (39000 PSI) & Elongation - 25%. : For Grade B = UTS-400 Mpa (58000 PSI), YS - 315 Mpa (46000 PSI) & Elongation - 23%. : For Grade C = UTS-425 Mpa (62000 PSI),YS - 345 Mpa (50000 PSI) & Elongation - 21%. : For Grade D = UTS-400 Mpa (58000 PSI),YS - 250 Mpa (36000 PSI) & Elongation - 23%.	
<b>RADIUS OF CORNER</b>	: 3 Times the nominal wall thickness (Maximum)	
<b>STRAIGHTNESS</b>	: 1/8" times the number of feet to total length divided by 5.	
<b>WORKMANSHIP</b>	: Free from overlap, lamination, tool/roll marks, pin holes, open seams & other harmful defect.	
<b>PACKING</b>	: Box type	



# ASTM A500

## SQUARE STRUCTURAL TUBING

SIZE	WALL THICKNES	WEIGHT	PIECES/BNDLS	SIZE	WALL THICKNES	WEIGHT	PIECES/BNDLS	SIZE	WALL THICKNES	WEIGHT	PIECES/BNDLS
Inch	Inch	lb/ft		Inch	Inch	lb/ft		Inch	Inch	lb/ft	
3/4" X 3/4"	0.065	0.605	150	2" X 2"	0.065	1.710	49	4" X 4"	0.083	4.360	25
	0.072	0.663	150		0.072	1.890	49		0.090	4.813	25
	0.08	0.748	150		0.080	2.109	49		0.095	4.973	25
	0.083	0.752	150		0.083	2.160	49		0.109	5.660	20
	0.09	0.832	150		0.090	2.363	49		0.120	6.460	20
	0.095	0.873	150		0.095	2.460	49		0.134	6.890	20
	0.109	0.986	150		0.109	2.800	36		0.148	7.560	20
	0.12	1.071	100		0.120	3.070	36		0.188	9.420	16
1" X 1"	0.065	0.826	100	2 1/2" X 2 1/2"	0.134	3.240	36	5" X 5"	0.203	10.120	16
	0.072	0.908	100		0.148	3.541	36		0.250	12.210	12
	0.080	1.020	100		0.188	4.320	25		0.313	14.830	9
	0.083	1.040	100		0.203	4.603	25		0.375	17.270	9
	0.090	1.138	80		0.250	5.410	25		0.500	21.600	9
	0.095	1.169	80		0.065	2.120	49		0.109	7.290	16
	0.109	1.321	80		0.072	2.332	49		0.120	8.012	16
	0.120	1.435	64		0.080	2.653	49		0.134	8.926	16
1 1/2" X 1 1/2"	0.065	1.269	80	3" X 3"	0.083	2.668	49	5" X 5"	0.148	9.837	12
	0.072	1.434	80		0.090	2.975	36		0.188	11.970	12
	0.080	1.565	80		0.095	3.031	36		0.203	12.880	12
	0.083	1.599	80		0.109	3.440	36		0.250	15.620	12
	0.090	1.751	64		0.120	3.900	36		0.313	19.080	9
	0.095	1.815	64		0.134	4.159	25		0.375	22.370	9
	0.109	2.062	64		0.148	4.540	25		0.500	28.400	9
	0.120	2.252	49		0.188	5.590	25				
	0.134	2.332	49		0.203	5.980	20				
	0.148	2.533	49		0.250	7.110	20				
0.188	3.040	49									

<b>TOLERANCES</b>	
<b>PERMISSIBLE VARIATION IN OUTSIDE FLAT DIMENSIONS</b>	: 2 1/2" (65) or under = ±0.50mm(0.0202 Inch) : Greater than 2 1/2" to 3 1/2" = ±0.60mm (0.025 Inch) : Greater than 3 1/2" to 5 1/2" = ± 0.80mm (0.030 Inch) : Greater than 5 1/2" = ± 0.01 times of large flat dimensions Minimum wall thickness - 10% of specified (Applicable to the centers of the flats)
<b>CHEMICAL PROPERTIES</b>	: %Max: C-0.30%, Mn -1.40%, S-0.045%, P- 0.045%, Cu-0.18% Min, (For A,B & D type) C-0.27%, Mn - 1.40%, S -0.045%, P -0.045%, Cu -0.18% min (For C type)
<b>MECHANICAL PROPERTIES</b>	: (Min.) For Grade A= UTS-310 Mpa (45000 PSI),YS - 270 Mpa (39000 PSI) & Elongation - 25%. : For Grade B = UTS-400 Mpa (58000 PSI), YS - 315 Mpa (46000 PSI) & Elongation - 23%. : For Grade C = UTS-425 Mpa (62000 PSI),YS - 345 Mpa (50000 PSI) & Elongation - 21%. : For Grade D = UTS-400 Mpa (58000 PSI),YS - 250 Mpa (36000 PSI) & Elongation - 23%.
<b>RADIUS OF CORNER</b>	: 3 Times the nominal wall thickness (Maximum)
<b>STRAIGHTNESS</b>	: 1/8" times the number of feet to total length divided by 5.
<b>WORKMANSHIP</b>	: Free from overlap, lamination, tool/roll marks, pin holes, open seams & other harmful defect.
<b>PACKING</b>	: Box type