

A500 B/C Specification (Square & Rectangular Tubing

ASTM A500/A500M-13 Grade B&C				
Chemical Composition	Comp Heat Analys C Max 0.26 Mn Max 1.35 P Max 0.038 S Max 0.038	0.3 0.3 1.4 5 0.0	duct ysis 30 40 045	
Tensile Requirements	Shaped structual Tubing Grade B Grade C YS(psi)MIN 46,000 50,000 TS(psi)MIN 58,000 62,000 EL (%)MIN(*) 23 21 (*) Specified wall thickness(t) is lighter than 0.120 in, Elongation(%) = 56t + 17.5		50,000 62,000 21 ess(t) is	
Charpy	NA			
	TOLERANCE			
Outside Dimensions	Largest Dimension (Inches)* 2-1/2 and under Over 2-1/2 to 3-1/2, incl Over 3-1/2 to 5-1/2, incl Over 5-1/2 * Measured at least 2"		±0.020 ±0.025 ±0.030 ± 1% end of tubing	
Convexity and Concavity	** Tolerance include allowance for convexity or concavity			
Wall Thickness	±10% of Nominal Wall Thickness			
Length	22' and under = $-1/4'' + 1/2''$ over 22' = $-1/4'' + 3/4''$			



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Straightness			
Squareness of Sides	±2° Max from square (90 degrees)		
Radius of Corners	Max 3t the nominal wall thickness		
	Largest outside dimension (inches)	Max in 3ft (in)	
	1-1/2 and under	0. 050	
	Over 1-1/2 - 2-1/2 incl	0. 062	
Twist	Over 2-1/2 - 4 incl	0. 075	
	Over 4 - 6 incl	0. 087	
	Over 6 - 8 incl	0. 100	
	Over 8	0. 112	